



**CALL NO. 103**

**CONTRACT ID. 151039**

**HARDIN COUNTY**

**FED/STATE PROJECT NUMBER NHPP IM 0654(048)**

**DESCRIPTION I-65 SONORA TO ELIZABETHTOWN**

**WORK TYPE GRADE, DRAIN & SURFACE WITH BRIDGE**

**PRIMARY COMPLETION DATE 11/1/2018**

**LETTING DATE: August 21,2015**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME August 21,2015. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

**PLANS AVAILABLE FOR THIS PROJECT.**

**DBE CERTIFICATION REQUIRED - 7.50%**

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

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**PART I**

**SCOPE OF WORK**

**ADMINISTRATIVE DISTRICT - 04**

**CONTRACT ID - 151039**  
**NHPP IM 0654(048)**  
**COUNTY - HARDIN**  
**PCN - DE04700651539**  
**NHPP IM 0654(048)**

I-65 SONORA TO ELIZABETHTOWN WIDEN I-65 TO 6 LANES FROM 0.6 MILE NORTH OF OLD SONORA ROAD TO WESTERN KENTUCKY PARKWAY.GRADE, DRAIN & SURFACE WITH BRIDGE SYP NO. 04-00018.00.  
GEOGRAPHIC COORDINATES LATITUDE 37:36:10.00 LONGITUDE 85:52:02.00

**COMPLETION DATE(S):**  
COMPLETED BY 11/01/2018      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](http://www.transportation.ky.gov/construction-procurement))

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

### **JOINT VENTURE BIDDING**

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

### **UNDERGROUND FACILITY DAMAGE PROTECTION**

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

### **SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS**

Contrary to the Standard Drawings (2012 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](mailto: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](http://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. (See attachment)

10/29/12



**Steven L. Beshear**  
Governor

Commonwealth of Kentucky  
Finance and Administration Cabinet  
**OFFICE OF THE SECRETARY**  
Room 383, Capitol Annex  
702 Capital Avenue  
Frankfort, KY 40601-3462  
(502) 564-4240  
Fax (502) 564-6785

**Lori H. Flanery**  
Secretary

## **SECRETARY'S ORDER 11-004**

### **FINANCE AND ADMINISTRATION CABINET**

#### **Vendor Document Disclosure**

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

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

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

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

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

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

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

### **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  
102.08 Irregular Proposals 102.14 Disqualification of Bidders  
102.09 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 certainty 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 out 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 submit certified reports on monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. These reports must be submitted within 14 days of payment made to the DBE contractor.

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 form to be submitted to: Office of Civil Rights and Small Business Development 6<sup>th</sup> 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.

04/29/2015

### **TRAINEES**

In Compliance with the "TRAINING SPECIAL PROVISION" included in Part III of the Proposal, the Contractor will be required to employ a trainee(s) for this contract.

### **PROJECT TRAFFIC COORDINATOR (PTC)**

Be advised this project is a significant project pursuant to section 112.03.12.

### **ASPHALT MIXTURE**

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

### **DGA BASE**

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

### **DGA BASE FOR SHOULDERS**

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

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

### **INCIDENTAL SURFACING**

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

### **FUEL AND ASPHALT PAY ADJUSTMENT**

The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of \$1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

### **ASPHALT PAVEMENT RIDE QUALITY CATEGORY A**

The Department will apply Pavement Rideability Requirements on this project in accordance with Section 410, Category A.

### **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.

I-65, Hardin County  
FD52 047 0065 081-086; NHPP 0654 (048)  
FD52 047 0065 086-092; NHPP 0654 (049)

**SPECIAL NOTE  
FOR  
FIXED COMPLETION DATE**

**Fixed Completion Date**

This project will have a fixed completion date of **November 1, 2018** for completion of all work associated with this project.

Liquidated damages per the Standard Specifications will be charged for each calendar day that all work is not completed after **November 1, 2018**.

Contrary to Section 108.09 of the Standard Specifications, **Liquidated Damages per the Standard Specifications will be charged during the months of December through March for all work that is not complete.**

**THE CONTRACTOR IS ADVISED THAT PHASE 1 CONSTRUCTION, PLACING BARRIER WALL AND SHIFTING LANES TO THE OUTSIDE SHOULDERS, CANNOT BEGIN UNTIL THE SECTION OF I-65 FROM MILE POINT 58.7 TO MILE POINT 65.6 (KYTC Project 4-13/14, CID 131218), CURRENTLY UNDER CONSTRUCTION, IS SUBSTANTIALLY COMPLETE WITH BARRIER WALL REMOVED AND ALL LANES AND SHOULDERS FULLY OPEN. CURRENTLY THIS IS ANTICIPATED TO BE NO LATER THAN NOVEMBER 30<sup>TH</sup>, 2015.**

I-65, Hardin County  
FD52 047 0065 081-086; NHPP 0654 (048)  
FD52 047 0065 086-092; NHPP 0654 (049)

**SPECIAL NOTE  
FOR  
MANDATORY MEETING FOR ROLLING ROADBLOCK  
TRAFFIC CONTROL**

**A mandatory Traffic Control Meeting is required for each planned Rolling Roadblock with the Project Engineer. The Contractor and/or subcontractor is responsible for providing a draft plan to the Engineer 2 days prior to the meeting for review. The persons involved in operation of the Rolling Roadblock equipment shall be present and each identified by their prospective role (i.e. Traffic Control Coordinator, vehicle drivers ...). The Rolling Roadblock operation shall be discussed in this mandatory meeting and approved by the Engineer prior to each Rolling Roadblock operation.**

4-18 & 4-19

July 8, 2015

***SPECIAL NOTE***

**For Tree Removal**

**Hardin County  
I-65 Widening  
Item No. 4-18 and 4-19**

**No trees are to be cleared during the months of June and July.**

**If there are any questions regarding this note, please contact David Waldner,  
Director, Division of Environmental Analysis, 200 Mero Street, Frankfort, KY  
40601, Phone: (502) 564-7250.**

## **SPECIAL NOTES FOR 047B00127L&R**

Special Note for Pier Encasement  
Special Note for Concrete Patching Repair  
Special Note for Bearing Replacement  
Special Note for Jacking and Supporting Bridge Span  
Special Note for Replacing Expansion Dams or Armored Edges  
Special Note for Maintain and Control Traffic for Bridge Repairs  
Special Note for Bridge Cleaning and Preventive Maintenance  
Special Note for Waste Management  
Special Note for Environmental and Worker Safety Regulations

## **SPECIAL NOTE FOR PIER ENCASEMENT**

**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) Encase pier cap in concrete to limits shown; (3) Maintain and control traffic; and (4) Any other work specified as part of this contract.

## **II. MATERIALS.**

- A. Concrete.** See Section 606.03.17. All concrete is to be Class 'M' (M1 or M2)
- B. Steel Reinforcement.** Use Grade 60. See Section 602.
- C. Epoxy Bond Coat.** See Section 511 and Section 826, ASTM C881 Type V.
- D. Structural Steel.** See Section 607 and Section 812, Use Grade 50
- E. Anchor Bolts.** Stainless Steel HILTI KWIK BOLT 3, AISI 304 or 316.
- F. Epoxy Anchoring System.** Hilti HIT-RE 500-SD Epoxy Adhesive or approved equal conforming to ASTM C881(AASHTO M235) Type IV Grade 2.

## **III. CONSTRUCTION**

- A. Remove Deteriorated Concrete.** Carefully remove deteriorated concrete from the pier cap and pedestals leaving existing temporary steel ties etc. in place within the work limits shown on the detail drawings. Remove delaminated, loose, or deteriorated concrete to sound concrete (min. 4" deep). If reinforcement diameter is 50% or more exposed, remove to at least  $\frac{3}{4}$ " behind the reinf. Dispose of removed materials off site at an approved location. Mechanically roughen existing concrete within the limits of the encasement. .
- B. Clean and Prepare Concrete Surfaces.** After deteriorated, etc., concrete has been removed, mechanically roughen surfaces which will have fresh concrete placed against them with a bush hammer or similar device to produce a roughened texture with approx.  $\frac{1}{4}$ " amplitude. Clean all concrete to be encased using pressure washing or in accordance with epoxy bonding agent's manufacturer's recommendations.
- C. Reinforcement.** Drill and epoxy reinforcing dowels as shown on the detail drawings. Place remaining reinforcement in accordance with Section 602 of the Specifications.
- D. Forming and Placing Concrete.** Form concrete to the level of any construction joints shown in the detail drawings in accordance with Specifications Section 601. Bond new concrete to existing by applying an approved epoxy bonding agent to the existing clean and roughened concrete just prior to pouring new concrete or as recommended by the epoxy bonding agent's manufacturer. Roughen concrete construction joints with a rake, wire brush, or other tool to an amplitude of approx.  $\frac{1}{4}$ " on 2" centers. Pour encasement to the lines shown in the detail drawings. Follow the early formwork removal procedures of Section 601.03.14 1)
- E. Masonry Coating.** After encasement and patching repair operations are complete, remove existing masonry coating and clean the concrete surfaces of the substructure unit being repaired. Apply masonry coating in accordance with the manufacturer's

recommendations and Specification Section 601, except that, contrary to the Specifications, masonry coating shall not be applied to the top surface of the pier cap. Removing existing masonry coating and cleaning concrete surfaces shall be considered incidental to the unit price bid for Masonry Coating.

**VI MEASUREMENT.**

- A. Class “M” Concrete.** See Specification Section 601.
- B. Steel Reinforcement.** See Specification Section 602.
- C. Masonry Coating.** See Specification Section 601.

**VII. PAYMENT.**

- A. Class “M” Concrete.** See Specification Section 601.
- B. Steel Reinforcement.** See Specification Section 602.
- C. Masonry Coating.** See Specification Section 601.

## **SPECIAL NOTE FOR CONCRETE PATCHING REPAIR**

### **I. DESCRIPTION**

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's current Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawing(s). Section references are to the Standard Specifications.

This work consists of the following:

- (1) Furnish all labor, materials, tools, and equipment
- (2) Provide safe access to the bridge substructure, in accordance with Section 107.01.01, for the Engineer to sound possible repair areas and for workers to complete the construction
- (3) Remove the deteriorated concrete
- (4) Blast clean and prepare the surfaces for patching
- (5) Prime the areas immediately prior to patching
- (6) Apply the Vertical and Overhead patch or Class M Concrete
- (7) Finish the patched surface
- (8) Maintain and control traffic
- (9) Any other work specified as part of this contract

### **II. MATERIALS**

- A. Vertical and Overhead Patching Material.** Conform to Manufacturer's Technical Guidance.
- B. Class "M" Concrete.** Use either "M1" or "M2". See Section 601.

### **III. CONSTRUCTION**

- A. Remove Deteriorated Concrete.** Prior to beginning the concrete repairs, provide safe access to the substructure, in accordance with Section 107.01.01, for the Engineer to sound possible repair areas. The Engineer will sound the concrete with a hammer and mark the areas of concrete to be removed and patched. All areas of deteriorated concrete found should be repaired as part of this work. Final payment for "Concrete Patching Repair" will be the field-measured quantity of patching completed in accordance with this Note and as designated by the Engineer.

Remove specified areas of deteriorated concrete as shown on the attached detail drawing(s) and/or as directed by the Engineer. The removal of unsound material shall be accomplished with hand tools or pneumatic hammers that do not exceed twenty (20) pounds. Precautions shall be exercised to protect the underlying sound material. Saw, route, or otherwise manipulate the sides of

the patch so that the interface between the old concrete and patch area are perpendicular. Remove all deteriorated loose concrete to a minimum depth of 2" for repairs using vertical and overhead patching material and 4" for repairs using Class M Concrete. Also ensure concrete removal in the patch area extends at least three-quarters (3/4) inch beyond any steel reinforcement more than 50 percent exposed. Dispose of all removed material entirely away from the job site or as directed by the Engineer.

Extreme care shall be taken when removing the existing spalled or delaminated concrete so as not to damage the existing reinforcing steel. Completely clean all existing steel reinforcement encountered free of rust and leave in place. Wire brushing may be required to thoroughly clean exposed steel reinforcement. Repair or replace any damaged steel reinforcement as directed by the Engineer at no additional cost to the Department. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04. The Contractor must consult the Engineer before removing any concrete that is directly below the beam bearings.

- B. Prepare Concrete Surfaces for Patching.** Prepare concrete surfaces to be patched in accordance with Section 510.03.01. Final blast cleaning shall be completed within twelve (12) hours prior to placement of the epoxy mortar patch. Concrete must be sound, dry, and clean prior to placement of epoxy resin bond coat.
- C. Apply Vertical and Overhead Patching Material or Class M Concrete.** The Engineer shall have the option of designating a spalled or delaminated area to be repaired using Class M high early strength concrete or a Vertical and Overhead Patching Material. Any material used must be approved by the Engineer. Refer to the Transportation Cabinet, Division of Materials' List of Approved Materials for currently approved materials for vertical and overhead patching. Place either the class M Concrete or Vertical and Overhead Patching Material as approved by the Engineer. Place the epoxy resin bond coat in accordance with the standard specifications and manufacturer's recommendations. Place the Vertical and Overhead Patching Material in accordance with the manufacturer's specifications to restore the deteriorated areas to their original dimensions as shown on the detail drawing(s) or as directed by the Engineer. Place Class M Concrete according to the Standard Specifications. See the "Special Note for Traffic Control on Bridge Repair Contracts" and attached drawing(s).
- D. Clean Surfaces and Apply Masonry Coating.** All piers which have received concrete patches are to have all surfaces except top of caps cleaned and are to receive masonry coating in accordance with the Specifications.

#### **IV. MEASUREMENT**

- A. Concrete Patching Repair.** The Department will measure the quantity in square feet to neat lines surrounding the patched area as approved by the Engineer.

**B. Masonry Coating** The Department will measure masonry coating in accordance with the Specifications.

## **V. PAYMENT**

**A. Concrete Patching Repair.** Payment at the contract unit price per Square Foot is full compensation for removal of deteriorated concrete, preparation of the concrete surface, application of the Vertical and Overhead Patching Material or Class M Concrete, application of the epoxy resin seal coat, and all incidental items necessary to complete the work in accordance with this Note and as shown on the attached detail drawing(s).

The Department will consider payment as full compensation for all work required by this note and the attached detail drawings.

**B. Masonry Coating.** Payment at the contract unit price per Square Yard is full compensation for cleaning surfaces and applying Masonry Coating in accordance with the Specifications, and all incidental items necessary to complete the work in accordance with this Note and as shown on the attached detail drawing(s).

The Department will consider payment as full compensation for all work required by this note and the attached detail drawings.

## **SPECIAL NOTE FOR BEARING REPLACEMENT**

### **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) Jack and temporarily support the girder(s).
- (3) Remove the existing expansion rockers, masonry plates, and anchor bolts as specified in this note and shown on the attached detail drawings.
- (4) Fill voids left by anchor bolt removal with non-shrink grout.
- (5) Install new bearings and bearing plates as specified in this note and shown on the attached detail drawings.
- (6) Maintain and control traffic.
- (7) Any other work specified as part of this contract.

### **II. MATERIALS**

- A. Structural Steel.** Use new, commercial grade AASHTO M270 Grade 50 (ASTM A709 Grade 50) steel suitable for welding. See Section 812.
- B. Weld Material.** See Section 813.10 All welds shall be E70XX.
- C. Elastomeric Bearing Pads.** Use bearing pad "4E" as shown on Standard Drawing BBP-001 CE. See Section 822. Use low temperature Grade 3 with a durometer hardness of 50 and bearings that conform to the load test requirements corresponding to Design Method A.
- D. Paint.** Match the color of the existing paint. All paint supplied must be contained in the current List of Approved Materials. See Section 821.
- E. Non-Shrink Grout.** Use non-shrink grout. See Section 601.
- F. Anchor Bolts.** Anchor Bolts shall be Hilti Kwik Bolt 3 Stainless Steel expansion anchors or approved equal capable of developing a working shear capacity of 5.5kips at a factor of safety of 2.0 when installed in accordance with the manufacturer's recommendations.

### **III. CONSTRUCTION**

- A. Existing Dimensions.** The Contractor shall field verify all dimensions prior to ordering any materials or performing any work.
- B. Jacking Plan.** The Contractor must submit a Jacking Plan, stamped by a professional engineer licensed in the State of Kentucky, for review by the Engineer, prior to starting work. The beams should only be lifted enough to allow for removal and installation of the bearing assemblies, no more than 1/4". At no time shall differential

movement between beams exceed 1/4" For each bearing the total estimated design loads to be supported are:

|              |                              |
|--------------|------------------------------|
| Dead Load    | 23 Tons                      |
| Live Load    | 35 Tons _____                |
| <b>Total</b> | <b>58 Tons for each beam</b> |

The contractor's jacking system shall be designed to support a minimum of 150% of these loads. See the Special Note for Jacking and Supporting Bridge Span for additional information.

- C. Remove Existing Materials.** Remove the existing bearings and anchor bolts as shown on the attached detailed drawings. Grind welds remaining after removing bearing sole plates smooth. Fill voids left by anchor bolt removal with non-shrink grout to a smooth level bearing surface. Clean the existing seats of debris. Dispose of all removed material entirely away from the job site. This work is incidental to the contract unit price for "Bearing Replacement".
- D. Field Prepare Existing Surfaces.** Clean surfaces of steel to be welded until free of all corrosion, debris and deleterious substances. Field prepare bottom of bearing plates to insure full bearing contact between existing plates and proposed bearing plates.
- E. Install Bearing Assembly.** Protect the elastomeric pad and vulcanized bonds on the cover plate from heat. Install bearings when the 6-hour average ambient temperature is projected to be 75°F (±10° F).
- F. Welding Specifications.** All welding and welding materials, shall conform to "Joint Specification ANSI/AASHTO/AWS D1.5M-D1.5-2010 Bridge Welding Code" and modification and additions as stated on the plans. Welding procedures shall be submitted to the Engineer and approved prior to the start of fabrication and retrofit. The cost of welding, welding materials, straightening, altering, and burning new or existing steel shall be included in the unit price bid for the appropriate items.
- G. Mill Test Reports.** Notarized test reports shall be furnished in triplicate to the Department showing that all the materials used for these repairs conform to the requirements of the Specifications.
- H. Damage to the Structure.** The Contractor shall bear full responsibility and expense for any and all damage to the structure, should such damage result from the Contractor's actions.
- I. Painting.** Following the installation of the elastomeric bearing pads and pedestals, clean and paint all new exposed structural steel in accordance with Section 607.03.23 "Cleaning and Painting Structural Steel Bridges" unless otherwise shown in the contract documents. Apply field coatings to new steel and steel to be overcoated in accordance with Section 614. Shop and field painting of all new and existing structural steel will be considered incidental to "Bearing Replacement".
- J. Shop Plans.** Shop plans will not be required. The Contractor is responsible for obtaining field measurements and supplying properly sized materials to complete the work.
- K. Prohibited Field Welding.** No welding of any nature shall be performed on the bridge except as shown on the attached drawings without the written consent of the

Director, Division of Bridge Design, and then only in the manner and at the locations designated in the authorization.

#### **IV. MEASUREMENT**

- A. Jack and Support Bridge Span.** See the Special Note for Jacking and Supporting Bridge Span
- B. Bearing Replacement .** Measurement will be for each bearing replacement.

#### **V. PAYMENT**

- A. Jack and Support Bridge Span.** See the Special Note for Jacking and Supporting Bridge Span .
- B. Bearing Replacement.** Payment at the contract unit price is full compensation for removal and disposing of specified materials, furnishing and placing non-shrink grout, furnishing and installing steel plates and anchor bolts, welding, furnishing and installing elastomeric bearing pads and all other materials, labor, equipment, tools, and incidentals necessary to complete the work as specified by this note.

The Department will consider payment as full compensation for all work required by this note and the attached detail drawings.

## **SPECIAL NOTE FOR JACKING AND SUPPORTING BRIDGE SPAN**

- 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 drawing(s). Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Submit for approval jacking plans, procedures, drawings, and details prepared by a Professional Engineer licensed to practice in the Commonwealth of Kentucky; (3) Jack the entire structure or portions as shown on the detail drawings and provide temporary supports for the duration of the remaining work; (4) Remove jacking and temporary supports when no longer required; (5) Maintain and control traffic; and (6) Any other work specified as part of this contract.

**II. CONSTRUCTION.**

- A. Working Drawings.** Prior to preparation of jacking plans and working drawings, the Contractor shall verify in the field, conditions and dimensions as necessary to perform the work. The Contractor shall submit to the Engineer for approval, jacking plans, working drawings and design calculations for the jacking and temporary supports. Such plans, drawings, and design calculations shall be prepared, sealed, and signed by an engineer who is licensed to practice in the Commonwealth of Kentucky. The content and number of sets of drawings and design calculations and times for review for temporary supports shall be the same as shown in the Standard Specifications for falsework working drawings. The jacking plan is to provide for a jacking scheme that will limit the load in the jacks to specified loads plus or minus 5%. Jacks are to be sized to provide a safe working load of 1.5 times the required working or jacking load. In addition to a minimum horizontal force of 2% of the dead load reaction of the structure, the Contractor's jacking plan is to include provisions for resisting horizontal loads that may occur as a result of the jacking operations and clearly show methods to resist those loads. The jacking plan is to take into consideration the longitudinal movement of the centerline of bearings as the superstructure is raised. The jacking locations and loads, if shown on the detail drawings, may be revised by the contractor. If not shown on the detail drawings, the contractor shall select jacking locations and/or loads consistent with his proposed jacking plans and procedures. Jacking loads and jack locations required by the Contractor's jacking method shall be shown on the jacking and supporting plan submitted for approval. The contractor is permitted to temporarily remove existing bracing as necessary and to replace said bracing with contractor provided jacking frames, to install contractor provided jacking stiffeners, or otherwise modify the structure, as necessary to implement his jacking plan, with the written approval of the Engineer. If loads are transferred to or if the spans are supported at locations other than those already having appropriate stiffeners or as shown in the detail drawings, the contractor shall provide steel plate or angle jacking stiffeners designed by a

Professional Engineer which meet current AASHTO requirements for bearing stiffeners and which may remain in place at the conclusion of the construction. Jacking stiffeners may be welded or bolted to the beam webs, but must be milled to bear on the top flange at the piers and may be close fit and welded to the flange at other locations. Jacking schemes which require modifications to the structure shall be considered permanent and shall remain in the structure unless otherwise shown in the contract documents or directed by the Engineer. All steel which will remain in the finished structure shall be painted in accordance with the Specifications and notes excepting that paint coats may be shop applied.

- B. Jacking and Temporary Support.** The jacking operation is to be performed in such a manner that the vertical position of the members supported by the bearings will remain in approximately the same relative position throughout the jacking operation. A maximum of  $\frac{1}{4}$ " relative difference in position is allowed in a lift between any of the jacks and between jacked and unjacked girders. Traffic shall remain on the portion of the structure to be jacked at all times unless otherwise approved by the Engineer. A redundant system of supports shall be provided during the entire jacking operation for backup should any of the jacks fail. The redundant system shall include stacks of steel plates or other steel sections added as necessary to maintain the redundant supports at each jack location within  $\frac{1}{4}$ " of the jacking sill or corbels.

Each jack shall be equipped with either a pressure gage or a load cell for determining the jacking force. Pressure gages shall have an accurately reading dial at least 6" in diameter. Each jack shall be calibrated by a private laboratory within 6 months prior to use. Each jack and its gage shall be calibrated as a unit with the cylinder extension in the approximate position that it will be in at final jacking force and shall be accompanied by a certified calibration chart. Load cells shall be calibrated and provided with an indicator by which the jacking force is determined.

Vandal-resistant displacement monitoring equipment shall be provided and maintained. Vertical and horizontal displacements of the temporary supports and the existing structure shall be monitored continuously during jacking operations and shall be accurately measured and recorded at least weekly during removal and reconstruction work. As a minimum, elevations shall be taken prior to the start of jacking operations, immediately after jacking is complete, before permanently re-connecting the superstructure to the substructure, and after the temporary supports have been removed. As a minimum, the existing structure shall be monitored at the abutments, piers, and at mid-point of spans. Control points at each location shall be located near the center and the superstructure gutterlines. The records of vertical and horizontal displacement shall be delivered to the Engineer at the completion of the work described herein.

A force equal to the initial jacking load or the dead load shown on the plans shall be applied to the structure by the temporary support system and the force held until all initial compression and settlement of the system is complete. The structure shall then be lifted by the jacks to the final position and the force held until the temporary

support system is installed and the system is stable, before remaining work at the location being supported is begun.

Jacking operations shall be carefully controlled and monitored to ensure that the jacking loads are applied in a manner to prevent distortion and excessive stresses that would damage the structure. The superstructure shall be jacked as necessary to maintain the total vertical displacements at control points to less than  $\frac{1}{4}$ " from the elevations recorded prior to jacking plus the desired jacking height as shown on the plans or as modified by the Engineer. For bearing replacements and when no other desired jacking height is shown in the plans, detail drawings, or notes, the superstructure shall be jacked only as necessary to facilitate removal and replacement of the bearings and in no case more than  $\frac{1}{4}$ " if traffic is to remain on the structure during the work.

Should unanticipated displacements, cracking or other damage occur, the construction shall be discontinued until corrective measures satisfactory to the Engineer are performed. Damage to the structure as a result of the Contractor's operations shall be repaired by the Contractor at no expense to the Department.

Following completion of the reconstruction, the monitored control points shall not deviate from the vertical position by more than  $\frac{1}{4}$ " from the initial survey elevations or the elevations as modified by the Engineer or detail drawing(s).

#### **IV MEASUREMENT.**

**A. Jacking and Supporting Bridge Span.** The Department will not measure the quantity.

#### **V. PAYMENT.**

**A. Jacking and Supporting Bridge Span.** Payment at the contract lump sum price is for any and all jacking and support operations including all labor, materials, manufactured assemblies, furnishing and operating jacks, plates, jacking stiffeners, jacking beams, painting, etc. and all incidental items necessary to complete the work in accordance with this Note, the Standard Specifications, and as shown on the attached detail drawing(s) or as directed by the Engineer.

## **SPECIAL NOTE FOR REPLACING EXPANSION DAMS OR ARMORED EDGES**

**I. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's Standard Specifications for Road and Bridge Construction edition of 2012 with current 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. Concrete.** Class 'M' (M1 or M2) See Section 601.

**B. Structural Steel.** See Section 607, Section 812 and Standard Drawing BJE-001, current edition.

**C. Stud Anchors.** See Standard Drawing BJE-001 C.E.

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

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

**F. Preformed Silicone Seal.** Use Preformed, Pre-Compressed, Self-Expanding, Sealant System with Silicone Pre-Coated Surface, 'BEJS', as manufactured by EMSEAL JOINT SYSTEMS LTD, 25 Bridle Lane, Westborough, MA 01581, or approved performance equal. Preformed silicone seal shall be cellular polyurethane foam impregnated with hydrophobic 100 percent acrylic, water based emulsion, factory coated with highway-grade, low modulus, fuel resistant silicone and shall not contain any waxes or asphalts. Silicone coating is to be applied to the impregnated foam sealant at a width greater than maximum allowable joint extension and which when cured and compressed will form a bellows. Material shall be capable of movements of +50%, -50% (100% total) of nominal material size. Changes in plane and direction of the seal shall be executed using factory-fabricated transition assemblies. Transitions shall be warranted to be watertight at inside and outside corners through the full movement capabilities of the product. Design, depth of seal, & installation of the seal shall be in accordance with the manufacturer's recommendations.

### **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 and in the construction documents. 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 concrete to the scarified grade and finish to receive the new overlay or place the new concrete to the original grade and finish with broom strokes drawn transversely from curb to curb as directed or shown in the contract documents.

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 or with the Preformed Silicone Seal are not to be painted.

Blast clean all areas of existing concrete and structural steel which will come in contact with new concrete until free of all laitance and deleterious substances immediately prior to the placement of the new Concrete. The surface areas of existing concrete to come in contact with the new 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 practicable.

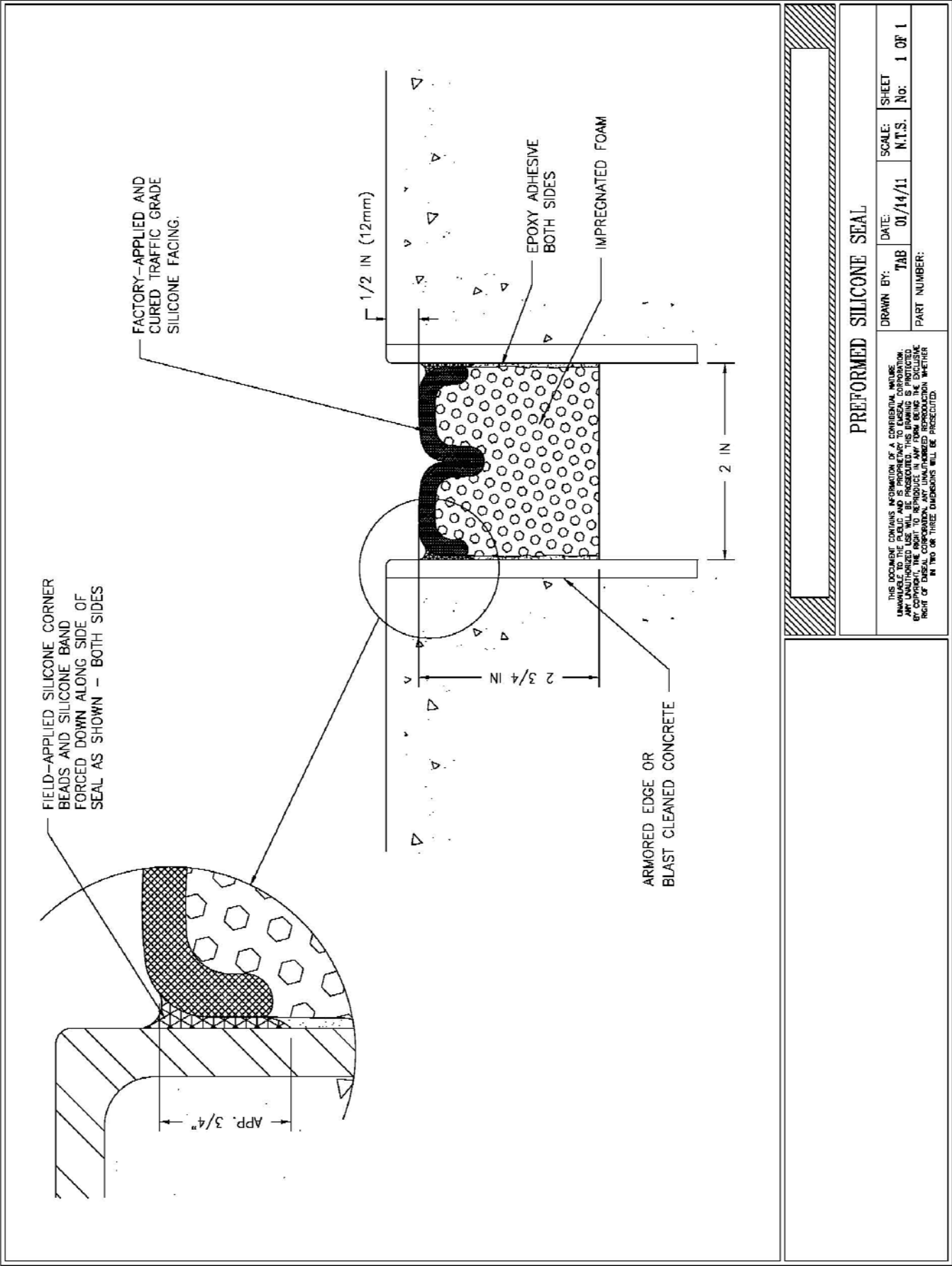
- C. Additional Steel Reinforcement.** Furnish for replacement, as directed by the Engineer, 400 linear feet of #4 steel reinforcing bars in 20' lengths. Place these bars in areas deemed by the Engineer to require additional or replacement reinforcement. Field cutting and bending is permitted. Do not place any additional steel reinforcement above the height of the top row of 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 concrete. Deliver unused bars to the Local County Maintenance Barn. Payment will be made in accordance with Section 602.
- D. Staged Construction.** Installation of concrete and armored edges in two (or more if specified) stages may be necessary. Join the armored edges at or near the centerline of the roadway or a lane line, field weld, and grind smooth.
- E. Preformed Silicone Seal.** Just prior to joint seal installation, remove all contaminants by sandblasting or grinding to ensure a thoroughly clean and sound substrate for the full seal depth. Do not use a wire wheel as this will polish the substrate and cause bond failure. Solvent wipe metal surfaces in accordance with the manufacturer's installation recommendations immediately prior to applying epoxy adhesive. Joint seal shall be installed into manufacturer's standard field-applied epoxy adhesive in a manner as recommended by the manufacturer. Joint seal is to be installed recessed from the deck surface such that when the field-applied silicone injection bead is installed between the substrates and the foam-and-silicone-bellows, all parts of the system are ½" below the deck surface.
- F. Shop Plans.** Shop plans will not 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 –3”** The Department will measure the quantity in linear feet from gutterline to gutterline along the centerline of the joint and contrary to Standard Drawing BJE-001 C.E. and the Standard Specifications will also measure seal placed from gutterline to edge of sidewalk, if present, along centerline of joint.
- B. Armored Edge for Concrete.** For Armored Edges not included with a joint, the Department will measure the quantity in linear feet from gutterline to gutterline along the armored edge.
- C. Steel Reinforcement.** See Section 602.

**VI. PAYMENT.**

- A. Expansion Joint Replacement –3”** Payment at the contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges bracketing the joint, concrete, neoprene strip seal or preformed silicone seal and all incidental items necessary to complete the work within the specified pay limits as specified by this note or 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 within the specified pay limits as specified by this note or as shown on the attached detail drawings.
- C. Steel Reinforcement.** See Section 602.



## **SPECIAL NOTE FOR MAINTAIN AND CONTROL TRAFFIC FOR BRIDGE REPAIRS**

### **I. TRAFFIC CONTROL GENERAL FOR BRIDGE REPAIR**

Traffic Control included in this Special Note encompasses all traffic control on both the Western Kentucky Parkway (road over) and I-65 (road under) necessary to complete bridge repairs for bridges 047B00127R & 047B00127L as described elsewhere.

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 for Bridge Repair".

Contrary to Section 106.01, traffic control devices used on this part of the 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:

| <u>Structure</u> | <u>Clear Lane Width</u>                 |
|------------------|-----------------------------------------|
| 047B00127R&L     | <u>11</u> feet Western Kentucky Parkway |
| 047B00127R&L     | see I-65 Maintenance of Traffic Notes   |

Parkway lane closures will not be permitted on these days:

Memorial Day Weekend (Friday-Monday)

Independence Day, when July 4<sup>th</sup> is on Tuesday, Wednesday, or Thursday; or

Independence Day Weekend, when July 4<sup>th</sup> 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.

## **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 rust and power wash structural steel members & bearing devices as specified in these notes.
- (3) Coating Bridge End Members;
- (4) Applying lubricant to the bearings.

### **A. SCOPE OF WORK**

#### **STRATIFIED AND PACK RUST REMOVAL**

All stratified 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 been 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 (beams, diaphragms and stiffeners) within 4 feet longitudinal of a joint. See attached detailed drawings for location of specified work.

#### **POWER WASHING**

Structural steel and bearing devices. 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 4 feet of any joint in girder spans.

#### **COATING BRIDGE END MEMBERS**

After removing rust and washing, apply a protective coating to the rusted areas of the structural steel within 4 feet of the joint. The coating should be applied to primary and secondary steel members (diaphragms, stiffeners and girders). The coating used shall be **Rhomar Black-Max or approved equivalent.**

### **BEARING GREASING**

After all 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. The lubricant shall be one of the following:

**‘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.**

### **B. MEASUREMENT.**

**Bridge Cleaning and Preventive Maintenance:** The Department will not measure the quantity.

### **C. PAYMENT**

**Bridge Cleaning and Preventive Maintenance (23949EC).** The contract price for this item will be paid as a lump sum. The payment for this bid item at the contract Lump Sum price 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

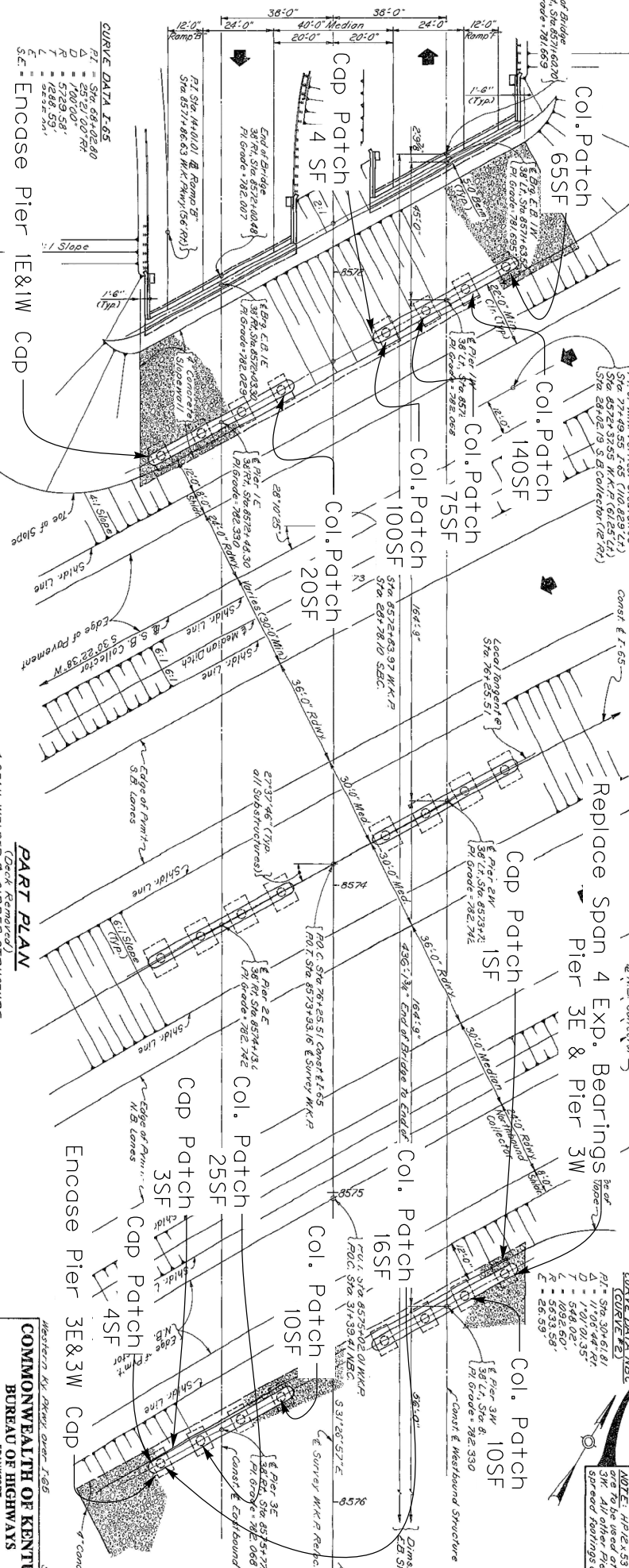
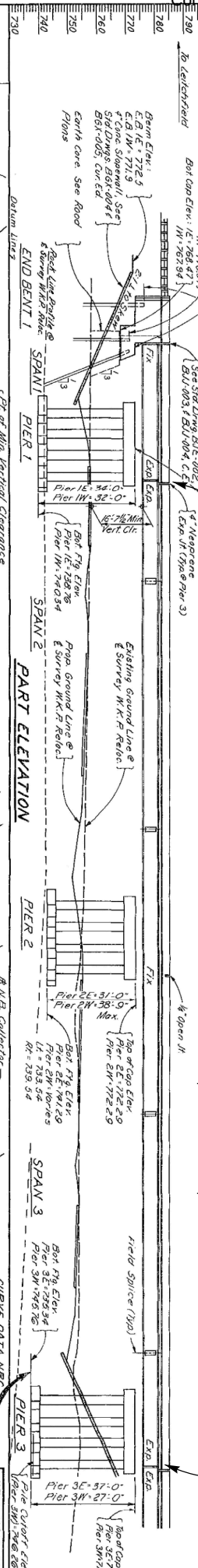
Environmental and Public Protection Cabinet, Commonwealth of Kentucky, Frankfort, Kentucky

### **(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.

Clean and lubricate all exist.  
Bearings, East & West. Included  
in Bridge Cleaning & Prev. Maint.

Replace Exp. Jt. 3' ±0.02  
Replace Exp. Jt. 3' ±0.02



Clean and apply preventive coating at  
beam ends. see Special Note for Bridge  
Cleaning and Preventive Maintenance

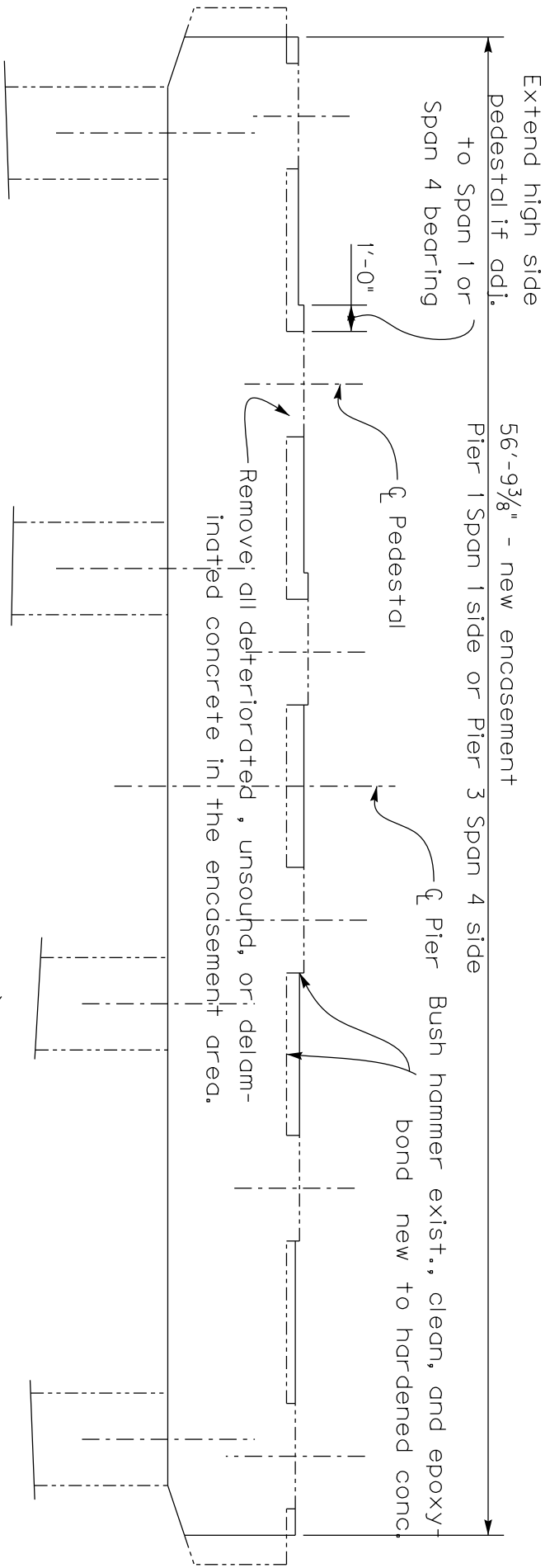
LAYOUT - SHOWING  
APPROX WORK  
LOCATIONS

LAYOUT FROM DWG. NO. 20387

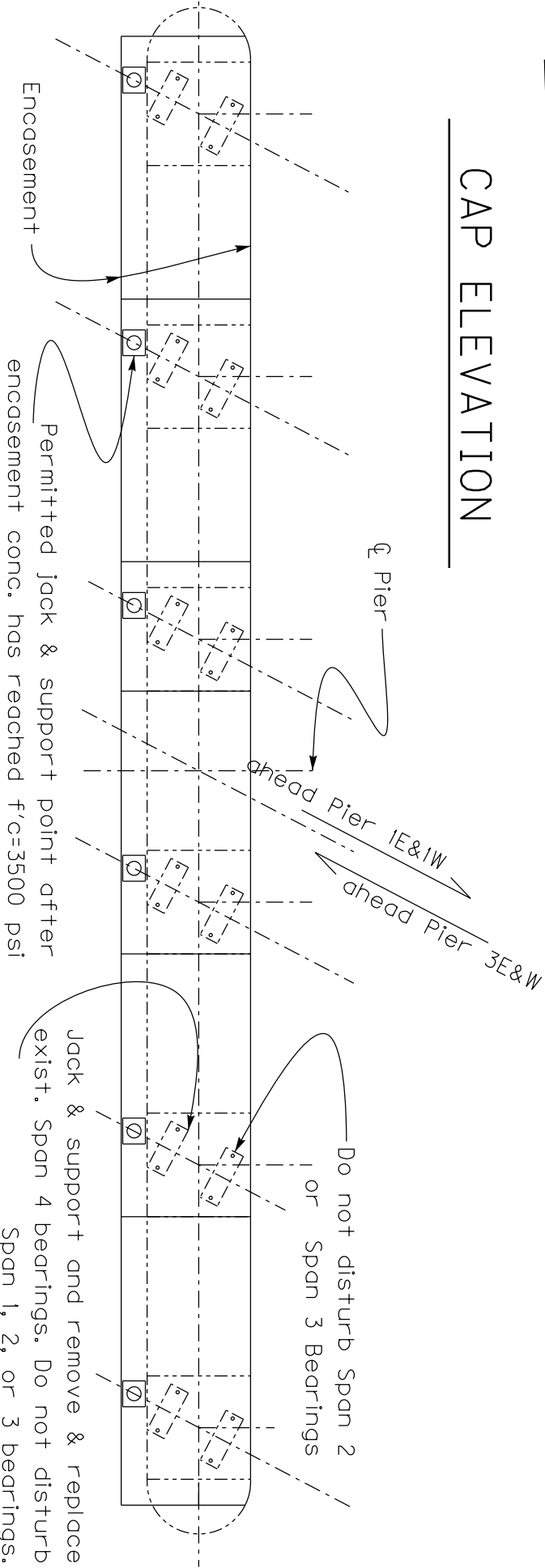
Note: Span 4 not shown.

COMMONWEALTH OF KENT  
BUREAU OF HIGHWAYS  
COUNTY OF  
FRANKFORT  
HARDIN  
ELIZABETHTOWN-LOUISVIL  
STATION 65+23.46 W.K.P. P.E. PROJECT NO.  
CONSTRUCTION PROJECT NO.  
MAINTENANCE PROJECT NO.

NOTE: ALL STATIONS, ELEVATIONS, ETC  
REFER TO PREVIOUS CONSTR. PLANS  
NOT CURRENT CONSTRUCTION PLANS.



## CAP ELEVATION

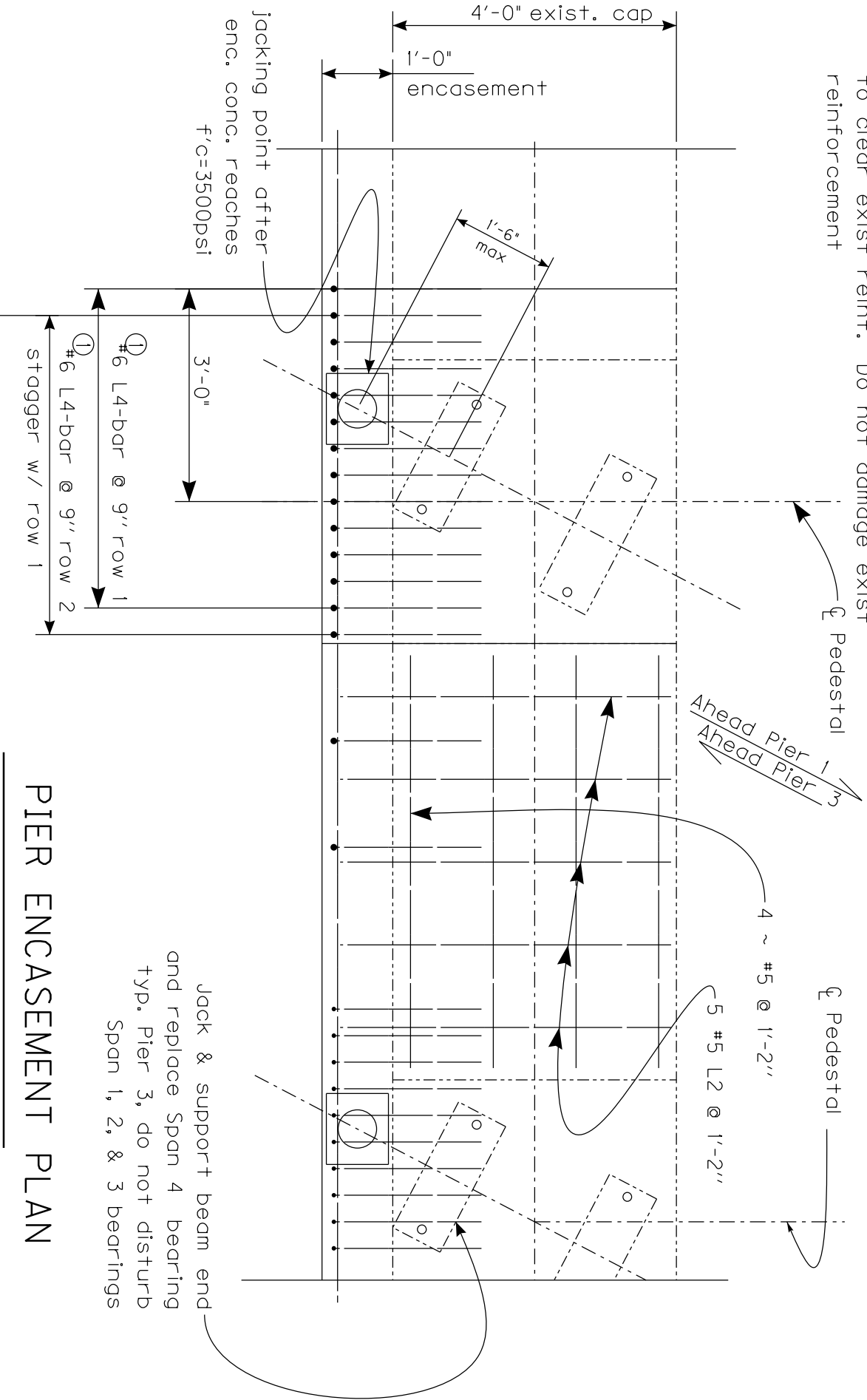


## PLAN OF CAP

## PIER ENCASEMENT DETAILS

See DN20387 for existing details not shown.

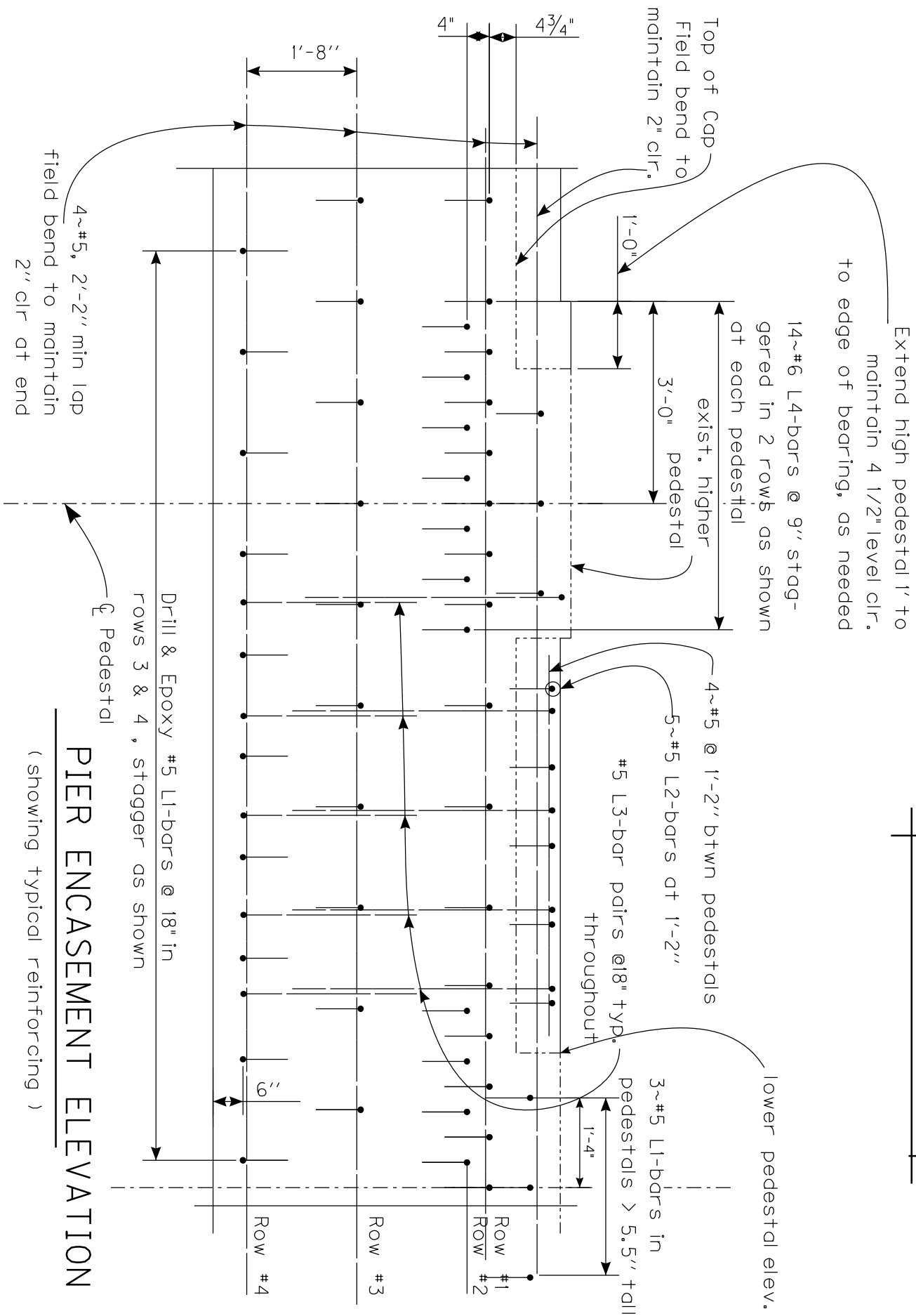
① Note: drill and epoxy #6 L4-bar into exist. 15" min embed or per epoxy system mfr. Drill and epoxy #5 L1-bars into exist. 12" min. embed or per mfr. Adjust drilled-in reinf. loc. to clear exist reinf. Do not damage exist reinforcement



# PIER ENCASUREMENT PLAN

( showing typical reinforcing )

See DN20387 for existing  
details not shown.



**PIER ENCASEMENT ELEVATION**

( showing typical reinforcing )

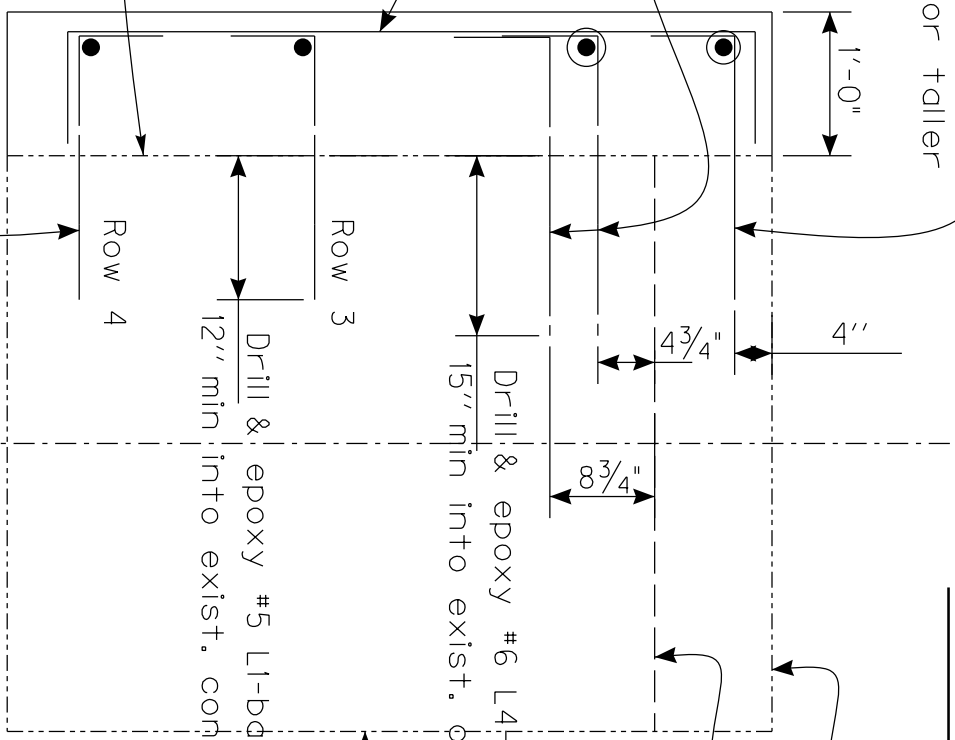
# PIER ENCASEMENT

3~#5 L1-bar in pedestals  
5 1/2" or taller

14~#6 L4-bar @ 9"  
@ ped. in Row 1 & 2

#5 L3-bar pairs @ 18"

#5 L1-bar @ 18" staggered in row 3 & 4



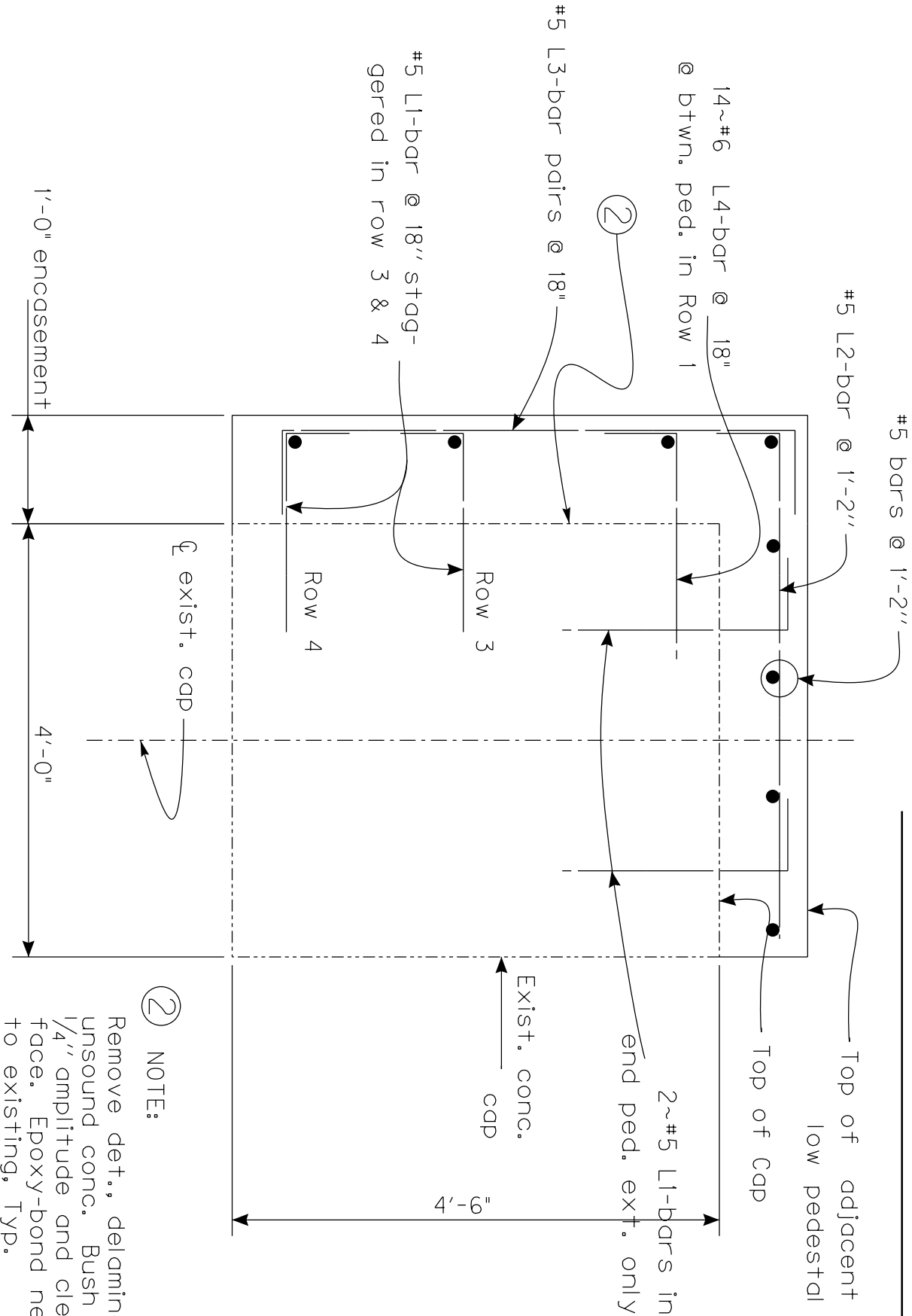
## TYPICAL SECTION

## THROUGH PEDESTAL

② NOTE:

Remove det., delaminated, and unsound conc. Bush hammer to 1/4" amplitude and clean interface. Epoxy-bond new conc. to existing, Typ.

# PIER ENCASEMENT



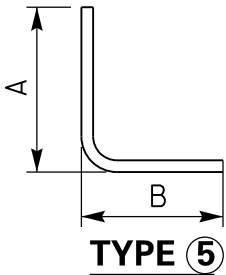
② NOTE:

Remove det., delaminated, and unsound conc. Bush hammer to 1/4" amplitude and clean interface. Epoxy-bond new conc. to existing, Typ.

## TYPICAL SECTION BETWEEN PEDESTALS

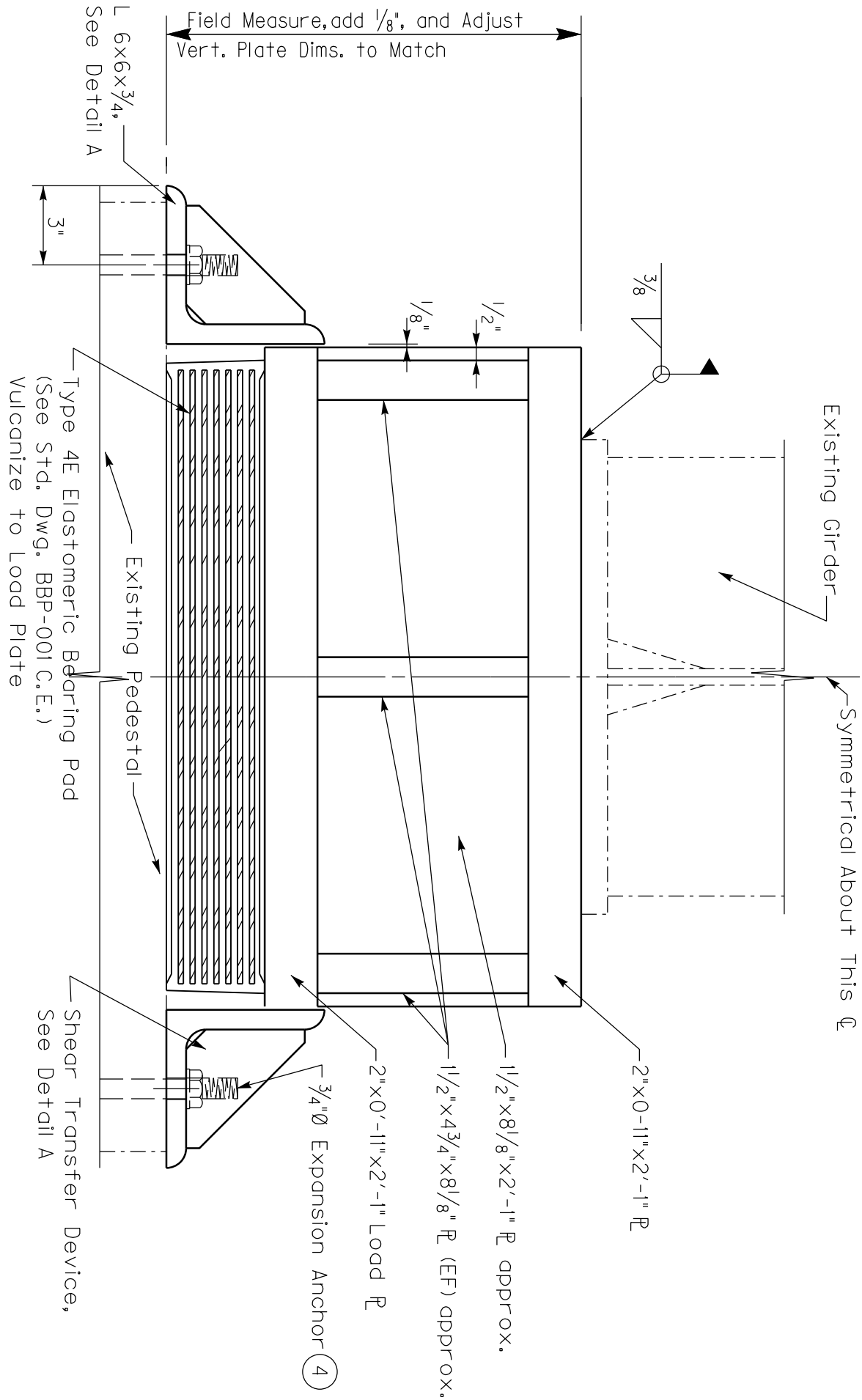
| BILL OF REINFORCEMENT |      |     |      |        |            |     |      |   |   |
|-----------------------|------|-----|------|--------|------------|-----|------|---|---|
| MARK                  | TYPE | NO. | SIZE | LENGTH | LOCATION   | A   | B    | C | D |
| L 1                   | (5)  | 93  | 5    | 2-5    | ENCASEMENT | 0-7 | 1-10 |   |   |
| L 2                   | (5)  | 27  | 5    | 6-0    | ENCASEMENT | 1-4 | 4-8  |   |   |
| L 3                   | (5)  | 76  | 5    | 4-0    | ENCASEMENT | 0-9 | 3-3  |   |   |
| L 4                   | (5)  | 70  | 6    | 2-9    | ENCASEMENT | 0-8 | 2-1  |   |   |
|                       | STR  | 20  | 5    | 5-11   | ENCASEMENT |     |      |   |   |
|                       | STR  | 4   | 5    | 56-5   | ENCASEMENT |     |      |   |   |
|                       |      |     |      |        |            |     |      |   |   |

BAR TYPES



NOTE: Bill of Reinf. is for 1 Pier, 4 Required  
wt. of reinf. shown is approx. 1368#

PIER CAP ENCASEMENT

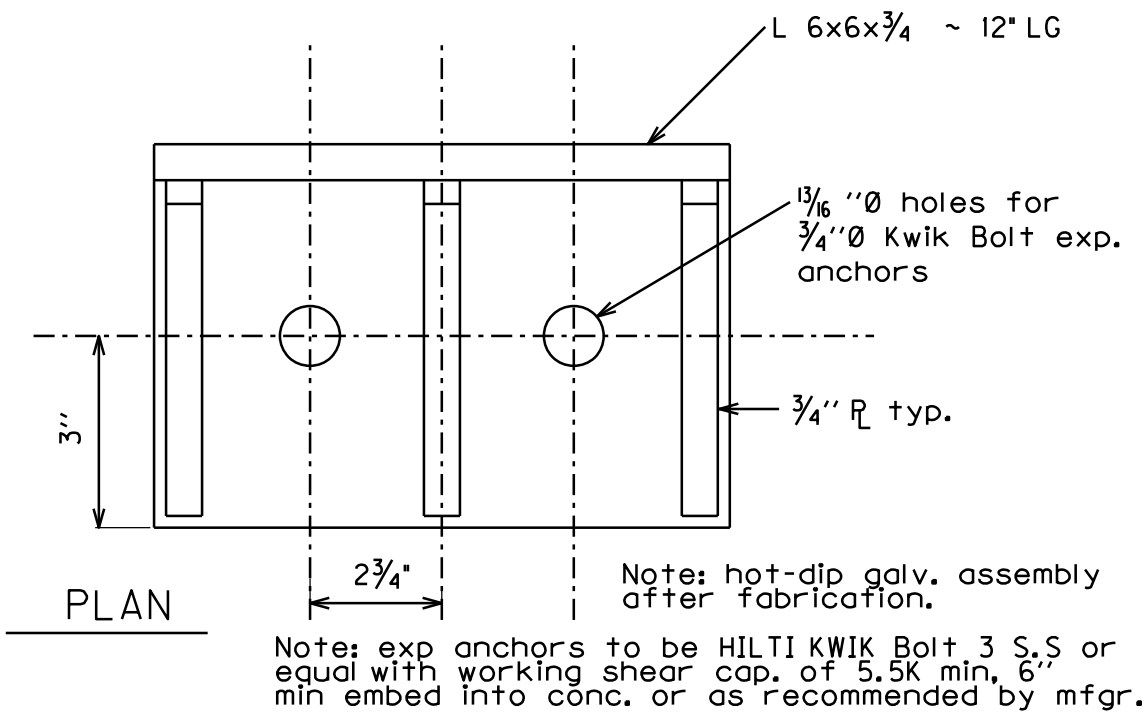


**FRONT ELEVATION**

For Notes see Detail "A"

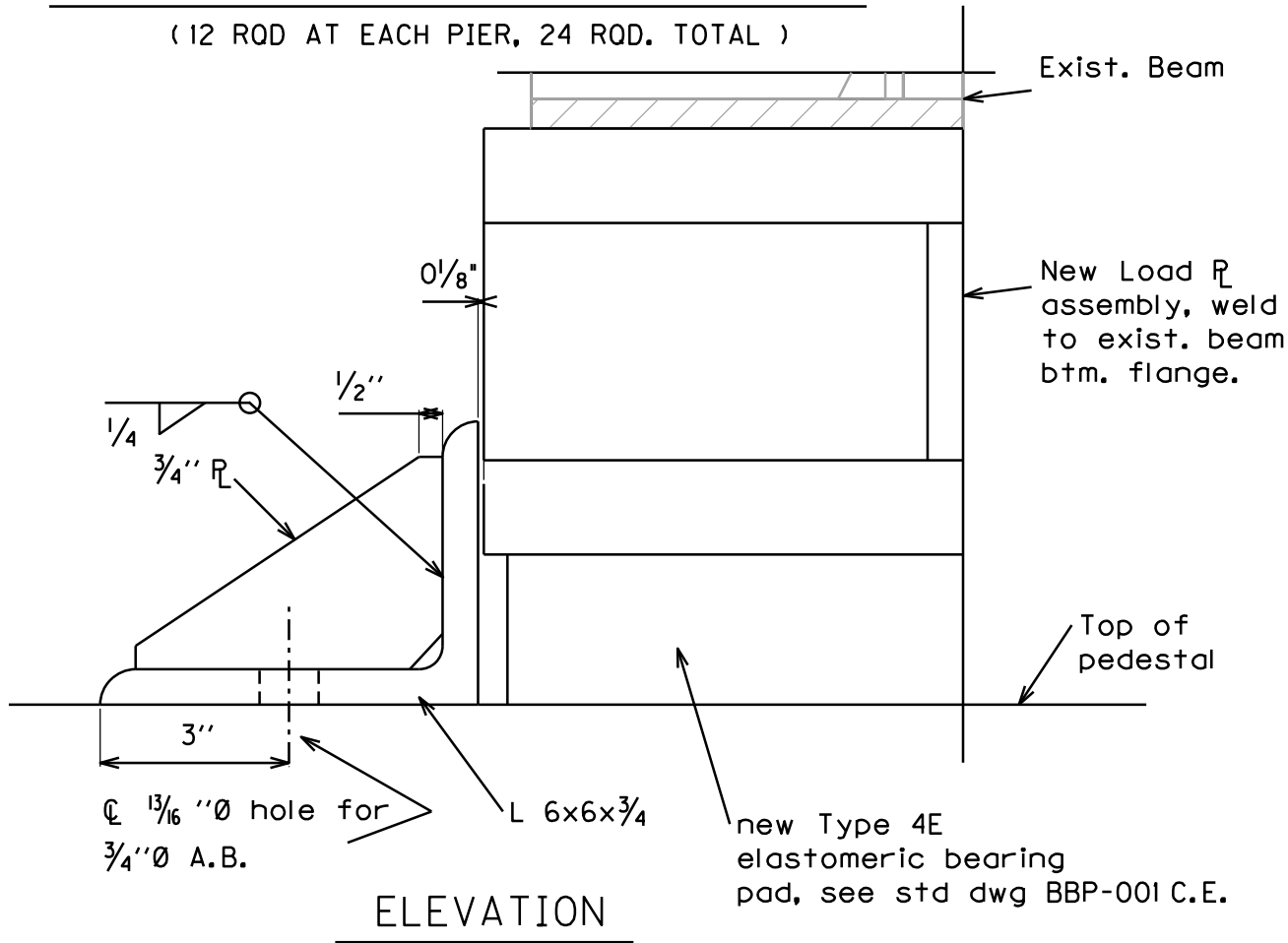
**BEARING REPLACEMENT**





SHEAR TRANSFER DEVICE

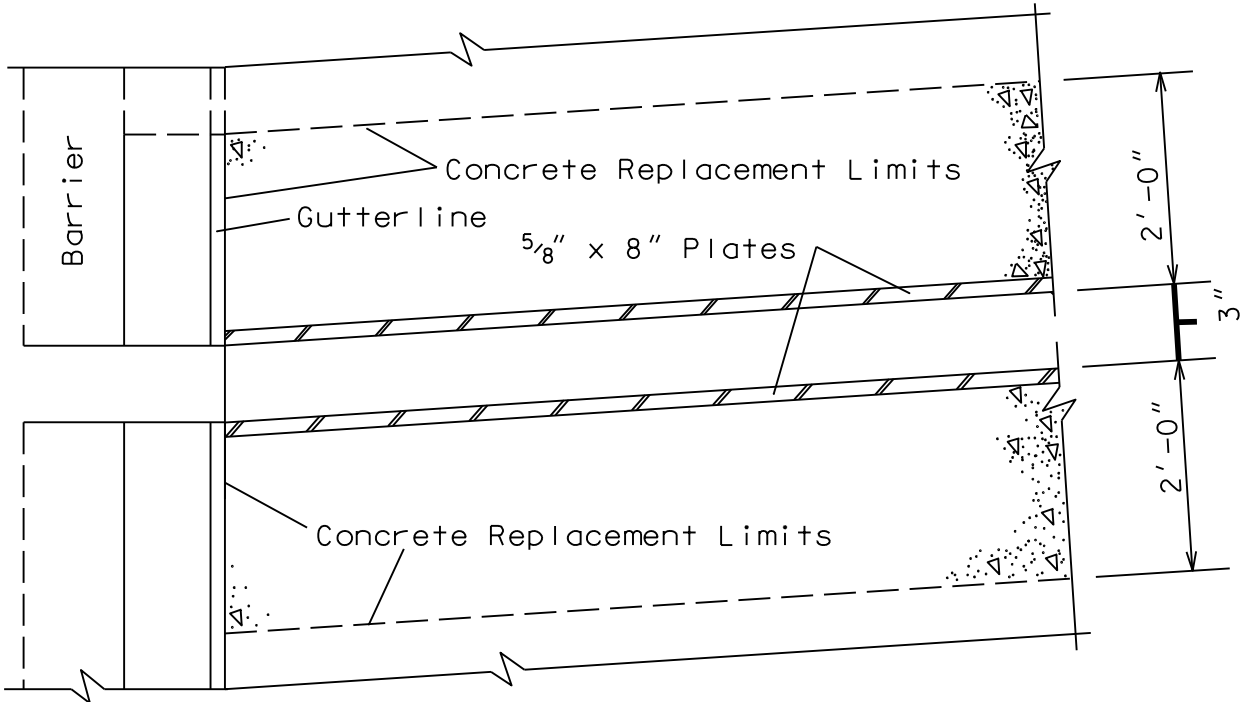
( 12 RQD AT EACH PIER, 24 RQD. TOTAL )



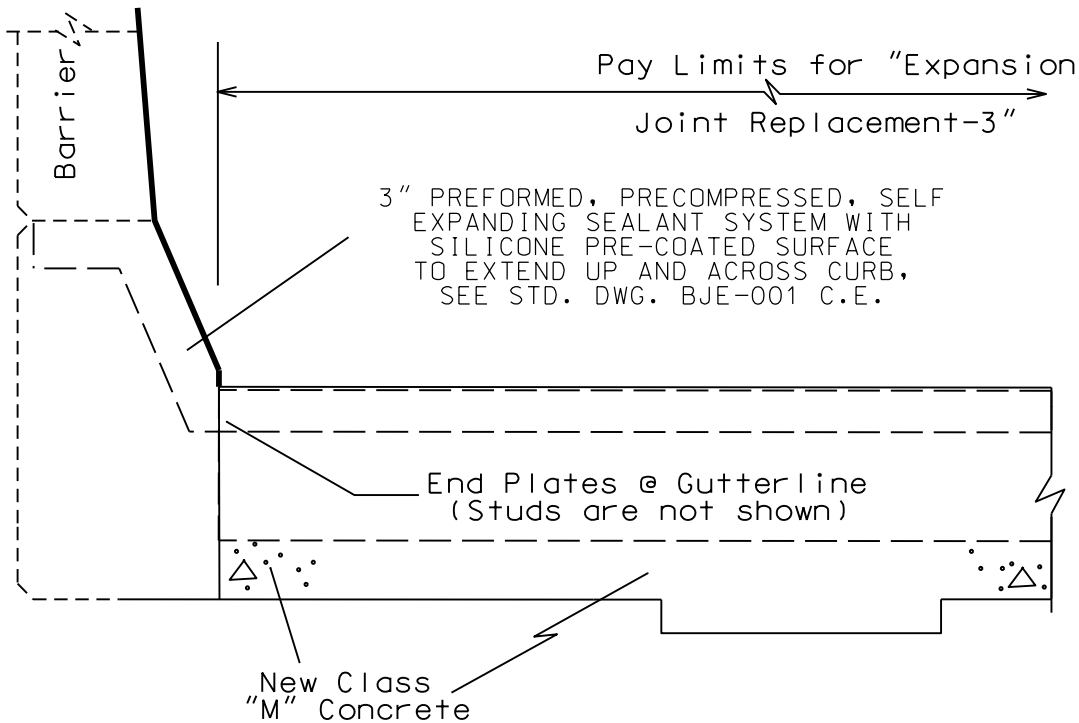
CURB SECTION

047B00127L&R

"Expansion Joint Replacement-3"  
Internal Joints



PLAN VIEW @ CURB

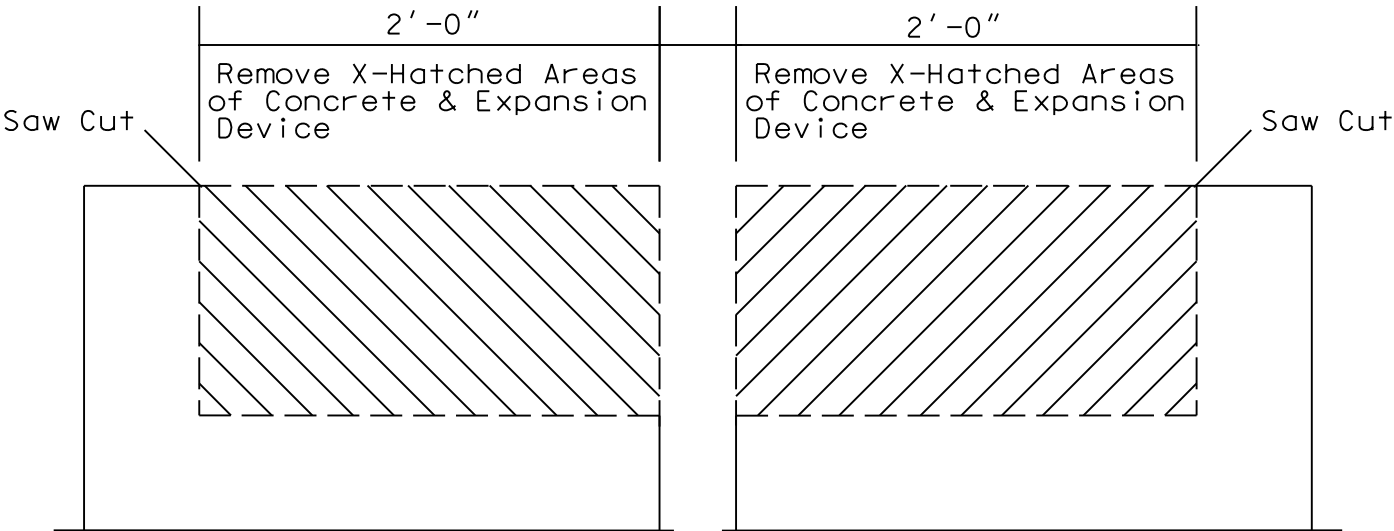


PROPOSED SECTION @ CURB

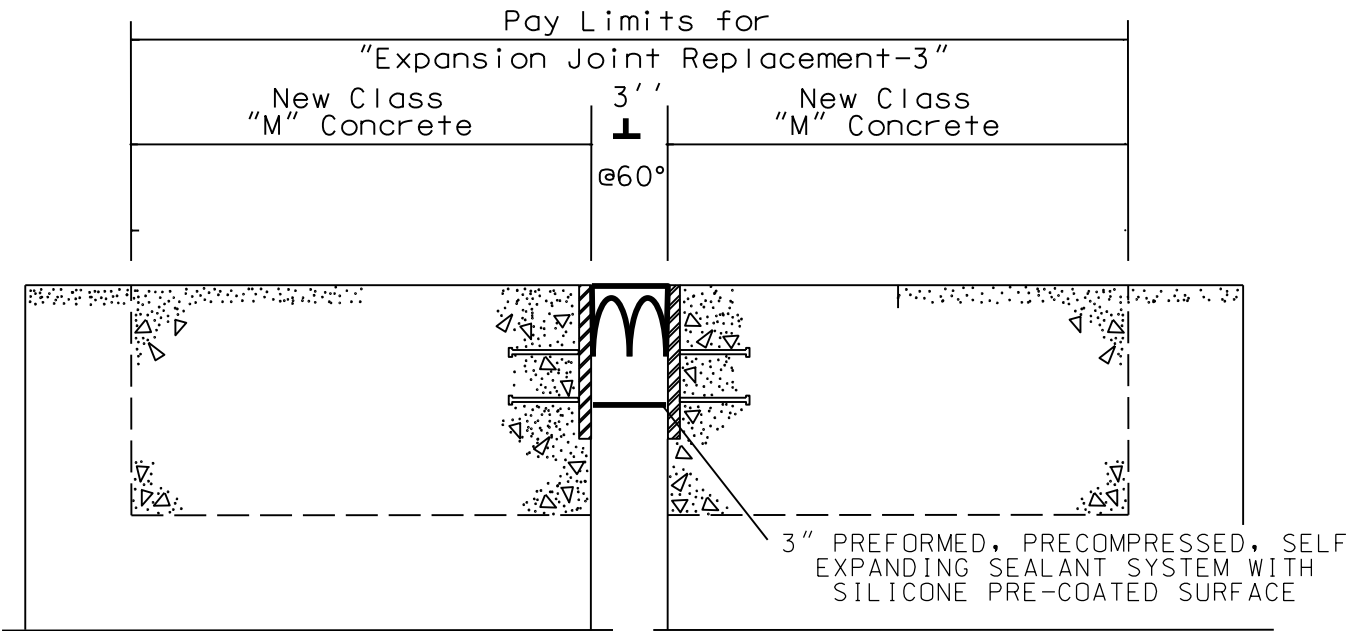
047B00127L&R

EXPANSION DAM DETAIL

"Expansion Joint Replacement-3"  
Internal Joints



EXISTING SECTION



PROPOSED SECTION

## ***SPECIAL NOTE***

### **For Sediment and Erosion Control and Karst Protection**

#### **Hardin County I-65 Widening Item No. 4-18 and 4-19**

Potential impacts to gray bat foraging habitat and the six identified mussel species will be minimized by limiting tree clearing along Cox Run, the Nolin River, and East Rhudes Creek, avoiding the placement of permanent structures within the streams, using construction techniques that minimize impacts to the streams, implementing erosion prevention and sediment control measures, and utilizing the KYTC's karst policy, where applicable. The erosion prevention and sediment control measures for the project are presented below.

**General Measures:** General mitigation and minimization measures for the project include:

- All erosion and sediment controls will be installed and implemented throughout the project corridor prior to any construction activities.
- All temporary and permanent containment basins will be constructed prior to any other construction activity to allow for sediment control. Long-term maintenance of the permanent containment basins will be implemented after construction of the project.
- Prior to construction, all sinkholes receiving surface water flows from the construction area will have proper sediment protection in place to prevent waste from the construction process from entering the protected groundwater system. Throughout construction, these sediment control structures will be inspected and maintained to prevent sediment or hazardous waste from entering the groundwater system.
- Staging areas will have erosion and sediment control structures installed and maintained to prevent discharge from the site. In addition, at least a 100-foot buffer will be maintained from open karst features.
- During "grade and drain" operations (occurring after initial clearing and grubbing of the corridor), mulch will be spread across all areas where no work will be conducted for a 21-consecutive-day period as specified in the tenets of KPDES permit number KYR10. Equipment needed to properly spread mulch will be located on-site.
- No pesticides, herbicides, or saline solutions will be used in the project corridor. Secondary containment for fuel, oil, lubricants, batteries, and other hazardous materials will be implemented.
- No solid materials, including building materials, shall be discharged to waters of the Commonwealth, except as authorized by permit. A premium will be placed on keeping rock/debris out of the streams and sinkholes within the project corridor. In the unforeseen event that debris does enter one of these features, the resident engineer shall halt the activity immediately and not resume until appropriate remedial actions have been implemented.
- Areas used for refueling, petroleum/oil/lubricant storage, or hazardous material storage will have appropriate erosion/sediment control structures and bioremediation areas in place before use.
- All waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) will be collected and stored in appropriate covered waste containers. Waste containers shall be removed from the project site on a sufficiently frequent basis as to not allow wastes to become a source of pollution. All personnel will be instructed regarding the correct procedure for waste disposal. Wastes will be disposed in accordance with appropriate regulations.

- The KYTC Standard Specifications for Road and Bridge Construction will guide construction activities. BMPs will be utilized to prevent non-point source pollution, to control stormwater runoff, and to minimize sediment damage to water quality and aquatic habitats. To reduce erosion and sedimentation effects of highway construction projects, KYTC is bound by the tenets of KPDES permit number KYR10 for all construction projects involving soil disturbance. For the subject project, individual Disturbed Drainage Areas (DDA) where construction site effluent will be discharged off-site or into waters of the Commonwealth will be identified in the project plans. According to Section 213.03.01 of the KYTC Standard Specifications, a BMP Plan (in accordance with KPDES permit number KYR10) will be developed jointly by the Resident Engineer and contractor prior to the Preconstruction Conference. Throughout the progression of the project, the BMP Plan will be updated in order to address the ever-changing on-site conditions to assure the overall goal of erosion control and sediment containment. The BMP Plan shall be modified when there is a change in design, construction, operation or maintenance of the site which has a significant effect on the potential for the discharge of pollutants to waters of the Commonwealth. The BMP Plan shall be amended if any aspect (during inspections conducted by the Resident Engineer and contractor simultaneously every seven days or after rain events greater than 0.5 inches) is determined to be ineffective in controlling the discharge of pollutants to waters of the Commonwealth. Any changes in the BMP Plan shall be implemented within seven days of the monitoring or action event. Appropriate documentation of changes in the BMP Plan will be maintained throughout the duration of the project. Further, appropriate documentation (pictures, monitoring log, etc.) of inspections will be maintained on the construction site;
- EPSC/SWPPP inspections shall be performed weekly and within 24 hours following a 0.5 inch or greater rainfall to maintain proper function.
- Sediment control BMPs will be cleaned out/maintained when the sediment reaches 1/3 the depth of the BMP. This action will prevent BMPs from becoming overburdened and discharging into the surface and groundwater systems.
- Disturbed areas shall be stabilized prior to forecast rain events. This action should reduce erosion and sedimentation into the surface and groundwater systems.
- Earth moving work shall be phased to limit the amount of soil disturbed at one time. All DDAs will have adequate BMPs in place before being disturbed. All remaining DDAs will be designated "Do Not Disturb" until the contractor and Resident Engineer prepare the plans for BMPs to be employed. This action will limit the amount of exposed soil to runoff, thus reducing erosion and sedimentation into the surface and groundwater systems.
- Prior to disturbance of the riparian corridor, the Resident Engineer and contractor will meet at the project site to determine which trees will be removed in order to minimize riparian disturbance.
- All stream bank disturbances shall be promptly seeded with native vegetation at the completion of construction at the particular area.
- Pouring of concrete for the project will be done such that spills into the stream do not occur.
- Equipment cleaning/staging areas will be located such that runoff from these areas will not directly enter the stream. Equipment cleaning/staging areas will be located such that effluent will be filtered through vegetated areas and proper sediment control structures located between the staging area and receiving waterbodies, thereby minimizing the potential for stream impacts such as sedimentation and pollution.
- The USFWS shall be contacted at least one week prior to the start of construction of the proposed project.

**Karst Groundwater Protections:** Elements of the KYTC BMP for karst policy will be implemented within the Elizabethtown Well Head Protection Area during this project. Those elements are as follows:

- Construct a minimum 10,000 gallon containment feature upstream of all sinkholes receiving roadway runoff. If a single 10,000 gallon containment feature cannot be constructed (due to utility restrictions, large rock cuts, steep slopes, etc.), then smaller basins will be constructed in series to achieve a total volume of 10,000 gallons for containment. These basins are designed to slowly

filter routine runoff as well as used to trap toxic spills, in the event that they happen, before they can enter a sinkhole. Detention basins shall be designed to maximize the flow length between the entrance and exit. The discharge point of each basin shall be constructed as a Silt Trap type B.

- Utilize 150-foot long grass filtering ditches with shallow slopes upstream of a sinkhole (and near the outlets of the 10,000 gallon containment features) where possible. Note that many outfalls to sinkholes will cross over existing cropland or fields that will act as filter ditches (permanent drainage easements).

- Utilize grass or an equivalent erosion control blanket, in lieu of rock channel lining, where possible, for roadside ditches. These grass ditches will mimic natural grass swales in the region and will be constructed with a two-foot minimum flat bottom cross-section. The design for the swale will be based on the expected peak flow and the slope so that the resulting shear stress will allow as much grass or grass/geo-tech lining as possible.

- Separate existing median outlets from cross drains. New storm sewer systems will be constructed under the proposed concrete barrier walls. Outfalls for these new systems will drain into 10,000 gallon containment features and not into an existing cross drain.

- New roadside ditches may be constructed that will allow roadway runoff to bypass an existing sinkhole and be directed into a containment feature, yet allow the existing sinkhole to collect offsite runoff.

- When these swales and basins are cleaned out, they shall be restored.

- The project will maintain 100-foot buffers around all karst features that will not be disturbed; however, this is not always possible. In the event that an area within the buffer will be disturbed, these areas will have appropriate erosion/sediment control structures in place prior to disturbance. The area will also be revegetated immediately following using native grass sod and/or trees based on conditions prior to disturbance. Post-construction evaluation of vegetation establishment will be conducted at one month intervals for at least three months to guarantee proper revegetation. If vegetation has returned satisfactorily without evidence of erosion and sedimentation, then sediment control structures may be removed from karst features.

**If there are any questions regarding this note, please contact David Waldner, Director, Division of Environmental Analysis, 200 Mero Street, Frankfort, KY 40601, Phone: (502) 564-7250.**

### **Special Note for Bridge Demolition, Renovation and Asbestos Abatement**

If the project includes any bridge demolition or renovation, the successful bidder is required to notify Kentucky Division for Air Quality (KDAQ) via filing of form (DEP 7036) a minimum of 10 days prior to commencement of any bridge demolition or renovation work.

Any available information regarding possible asbestos containing materials (ACM) on or within bridges to be affected by the project has been included in the bid documents. These are to be included with the Contractor's notification filed with the KDAQ. If not included in the bid documents, the Department will provide that information to the successful bidder for inclusion in the KDAQ notice as soon as possible. If there are no documents stating otherwise, the bidders should assume there are no asbestos containing materials that will in any way affect the work.



## TRANSPORTATION CABINET

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

# Memorandum

**To:** Joe Ferguson  
**CC:** Scott Schurman  
**From:** O'Dail Lawson  
Environmental Scientist IV  
Division of Environmental Analysis  
**Date:** 7/23/2015  
**Re:** Asbestos Inspection Report for Hardin 4-18

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**This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.**

### **Project and Structure Information**

**Project #** Hardin 4-18

**Bridge #** 047B00036L

**Location:** Interstate 65 over the Nolin River

**Description:** There are no suspect materials on this structure.

### **Results**

The inspection revealed that there is no suspect ACM materials; no abatement necessary



An Equal Opportunity Employer M/F/D



## TRANSPORTATION CABINET

Frankfort, Kentucky 40622  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

# Memorandum

**To:** Joe Ferguson  
**CC:** Scott Schurman  
**From:** O'Dail Lawson  
Environmental Scientist IV  
Division of Environmental Analysis  
**Date:** 7/23/2015  
**Re:** Asbestos Inspection Report for Hardin 4-18

---

**This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.**

### **Project and Structure Information**

**Project #** Hardin 4-18

**Bridge #** 047B00098N

**Location:** KY-1136 (Gilead Church Road) over Interstate 65

**Description:** The samples collected were negative for asbestos. No abatement necessary.

**Inspection Date:** July 20, 2015

### **Results**

The results revealed that there is no ACM abatement required at this time.



An Equal Opportunity Employer M/F/D



(502) 495-1212  
Fax: (502) 491-7111

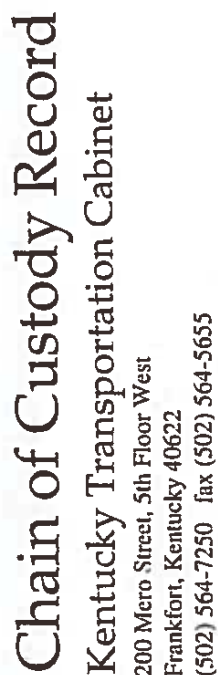
|              |               |          |                        |
|--------------|---------------|----------|------------------------|
| Analysis N # | 257236        | Address: | Hardin 4-18 047B00098N |
| Client Name: | KYTC          |          |                        |
| Sampled By:  | O'Dail Lawson |          |                        |

[illegible]

Date Analyzed : 23-Jul-15  
Analyst : Winterford Mensah

Reviewed By: Wintona Meraf  
Signature

AJHA #1 02459

Page 1

**ENVIRONMENTAL TRAINING CONCEPTS, INC**  
P.O. Box 99603 Louisville, KY 40269  
(502)640-2951

Certification Number: ETC-AIR-071415-00276

**O'Dail Lawson**

has on 07-14-2015, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

**ASBESTOS INSPECTOR REFRESHER**

Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management and Tennessee Department of Environment & Conservation The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1220 Kentucky Mills Drive, Louisville, KY

Expiration Date: 07-14-2016

  
Name - Training Manager

  
Name - Instructor



## TRANSPORTATION CABINET

Frankfort, Kentucky 40622  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

# Memorandum

**To:** Joe Ferguson  
**CC:** Scott Schurman  
**From:** O'Dail Lawson  
Environmental Scientist IV  
Division of Environmental Analysis  
**Date:** 7/23/2015  
**Re:** Asbestos Inspection Report for Hardin 4-18

---

**This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.**

### **Project and Structure Information**

**Project #** Hardin 4-18

**Bridge #** 047B00065N

**Location:** KY-1407 (Nolin Road) over Interstate 65

**Description:** The samples collected were negative for asbestos. No abatement necessary.

**Inspection Date:** July 20, 2015

### **Results**

The results revealed that there is no ACM abatement required at this time.



An Equal Opportunity Employer M/F/D

*MRS, Inc. Analytical Laboratory Division*

(502) 495-1212  
Fax: (502) 491-7111

|              |               |          |                        |
|--------------|---------------|----------|------------------------|
| Analysis N # | 257235        | Address: | Hardin 4-18 047B00065N |
| Client Name: | KYTC          |          |                        |
| Sampled By:  | O'Dail Lawson |          |                        |

[illegible]

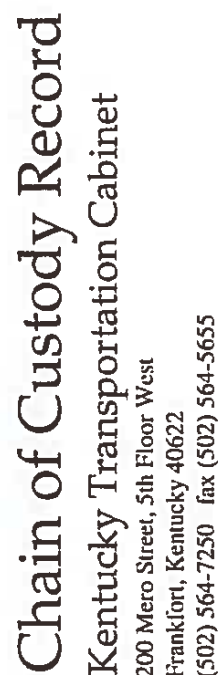
Date Analyzed : 23-Jul-15  
Analyst : Winterford Mensah

Reviewed By:

*Kintana Mencia*  
Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AJHA #1 02459

Page 1

**ENVIRONMENTAL TRAINING CONCEPTS, INC**  
P.O. Box 99603 Louisville, KY 40269  
(502)640-2951

Certification Number: ETC-AIR-071415-00276

**O'Dail Lawson**

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Conducted at: 1220 Kentucky Mills Drive, Louisville, KY

Expiration Date: 07-14-2016

  
Name - Training Manager

  
Name - Instructor



**Steven L. Beshear**  
Governor

**TRANSPORTATION CABINET**  
Frankfort, Kentucky 40622  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

**Michael W. Hancock, P.E.**  
Secretary

## Memorandum

**To:** Joe Ferguson  
**CC:** Scott Schurman  
**From:** O'Dail Lawson  
Environmental Scientist IV  
Division of Environmental Analysis  
**Date:** 7/23/2015  
**Re:** Asbestos Inspection Report for Hardin 4-19

---

**This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.**

### **Project and Structure Information**

**Project #** Hardin 4-19

**Bridge #** 047B00047N

**Location:** KY-222 (W Glendale-Hodgenville Road) over Interstate 65

**Description:** The samples collected were negative for asbestos. No abatement necessary.

**Inspection Date:** July 20, 2015

### **Results**

The results revealed that there is no ACM abatement required at this time.



An Equal Opportunity Employer M/F/D

*MRS, Inc. Analytical Laboratory Division*

(502) 495-1212

**Fax:** (502) 491-7111

|              |               |          |                        |
|--------------|---------------|----------|------------------------|
| Analysis N # | 257234        | Address: | Hardin 4-19 047B00047N |
| Client Name: | KYTC          |          |                        |
| Sampled By:  | O'Dail Lawson |          |                        |

[illegible]

**Analyst** : Winterford Mensah

Reviewed By:

Kingston Menard  
Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AJHA #1 02459



# Chain of Custody Record

Kentucky Transportation Cabinet  
200 Metro Street, 5th Floor West  
Frankfort, Kentucky 40622  
(502) 564-7250 fax (502) 564-5655

|                                           |                    |                                                         |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |
|-------------------------------------------|--------------------|---------------------------------------------------------|-------|---------------------------|---|------|---|--------------------|-------|--------|------|-------|--|------------|--|--------------|-----|
| OTDail Lawson <u>otdail.lawson@ky.gov</u> |                    | Client Information                                      |       | KY TRANSPORTATION CABINET |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| KYTC                                      |                    | Results Code:                                           |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| Address: 200 Metro Street<br>Frankfort KY |                    | ND = None Detected<br>FTD = Filter Tampering or Damaged |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| Phone: 502-782-5020 Fax: 502-564-5655     |                    | N/A = Not Applicable                                    |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| PO#:                                      |                    | Project or Subject Reference                            |       | Samples/(signature):      |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| Sample ID                                 |                    | Sample Description                                      |       | Date                      |   | Time |   | Analysis Requested |       | Matrix |      | Color |  | Cont. Type |  | Preservative |     |
| 47-1                                      | Guano Rail Marten  | 7-20-15                                                 | 10:45 | ↓                         | ↓ | ↓    | ↓ | Asbestos bulk      | mass  | grey   | grey |       |  |            |  |              | N/A |
| 47-2                                      | Trouled no Sealant | ↓                                                       | ↓     | ↓                         | ↓ | ↓    | ↓ |                    | spots | brown  |      |       |  |            |  |              |     |
| Relinquished By:                          |                    | Date/Time:                                              |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| Received By: <u>Matthews</u>              |                    | Date/Time: <u>7/20/15</u>                               |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| Relinquished By:                          |                    | Date/Time:                                              |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |
| Received at Lab By:                       |                    | Date/Time:                                              |       |                           |   |      |   |                    |       |        |      |       |  |            |  |              |     |

**ENVIRONMENTAL TRAINING CONCEPTS, INC**

P.O. Box 99603 Louisville, KY 40269  
(502)640-2951

Certification Number: ETC-AIR-071415-00276

**O'Dail Lawson**

has on 07-14-2015, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

**ASBESTOS INSPECTOR REFRESHER**

Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management and Tennessee Department of Environment & Conservation The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1220 Kentucky Mills Drive, Louisville, KY

Expiration Date: 07-14-2016

  
Name - Training Manager

  
Name - Instructor



**TRANSPORTATION CABINET**  
Frankfort, Kentucky 40622  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

## Memorandum

**To:** Joe Ferguson  
**CC:** Scott Schurman  
**From:** O'Dail Lawson  
Environmental Scientist IV  
Division of Environmental Analysis  
**Date:** 7/23/2015  
**Re:** Asbestos Inspection Report for Hardin 4-19

---

**This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.**

### **Project and Structure Information**

**Project #** Hardin 4-19

**Bridge #** 047B00034R

**Location:** Interstate 65 over E Rhudes Creek Road

**Description:** The samples collected were negative for asbestos. No abatement necessary.

**Inspection Date:** July 20, 2015

### **Results**

The results revealed that there is no ACM abatement required at this time.



An Equal Opportunity Employer M/F/D

***MRS, Inc. Analytical Laboratory Division***

(502) 495-1212  
Fax: (502) 491-7111

|              |               |          |                        |
|--------------|---------------|----------|------------------------|
| Analysis N # | 257233        | Address: | Hardin 4-19 047B00034L |
| Client Name: | KYTC          |          |                        |
| Sampled By:  | O'Dail Lawson |          |                        |

[illegible]

Reviewed By: Kristen Meneaf  
Signature

AJHA #1 02459



# Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West  
Frankfort, Kentucky 40622  
(502) 564-7250 fax (502) 564-5500

**Client Information**      **KY TRANSPORTATION CABINET**

**Results Code:**

ND = None Detected

FTD = Filter Tampering or Damaged

N/A = Not Applicable

**Samplers (signature):**

047300034L

Hardin 4-19

| Collected | Date | Time |
|-----------|------|------|
|-----------|------|------|

7-2015 10:30

[illegible]

---

[illegible][illegible]

---

[illegible]

— 325 —

---

183

— 322 —

[illegible]

Date/Time:

1

Date/Time:

A

Date/Time:

1

Date/Time:

100

KYTC COC.xlsx

**ENVIRONMENTAL TRAINING CONCEPTS, INC**  
P.O. Box 99603 Louisville, KY 40269  
(502)640-2951

Certification Number: ETC-AIR-071415-00276

**O'Dail Lawson**

has on 07-14-2015, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

**ASBESTOS INSPECTOR REFRESHER**

Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management and Tennessee Department of Environment & Conservation The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1220 Kentucky Mills Drive, Louisville, KY

Expiration Date: 07-14-2016

  
Name - Training Manager

  
Name - Instructor



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

## Memorandum

**To:** Joe Ferguson  
**CC:** Scott Schurman  
**From:** O'Dail Lawson  
Environmental Scientist IV  
Division of Environmental Analysis  
**Date:** 7/16/2015  
**Re:** Asbestos Inspection Report for Hardin 4-19

---

**This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.**

### **Project and Structure Information**

**Project #** Hardin 4-19

**Bridge #** 047B00127

**Location:** Western Kentucky Parkway over I-65

**Description:** The sample collected was negative for Asbestos. No abatement necessary.

**Inspection Date:** July 14, 2015

### **Results**

The results revealed that there is no ACM abatement required at this time.



An Equal Opportunity Employer M/F/D

*MRS, Inc. Analytical Laboratory Division*

(502) 495-1212  
Fax: (502) 491-7111

|              |                |          |                              |
|--------------|----------------|----------|------------------------------|
| Analysis N # | 257149         | Address: | Western KY Parkway Over I-65 |
| Client Name: | KYTC           |          |                              |
| Sampled By:  | Craig J. Craig |          |                              |

[illegible]

Reviewed By: Hindoo Menon  
Signature

AJHA #1 02459



# *The EI Group, Inc.*

This certifies that

*Tilmon O'Dail Lawson*

*Student Address: 132 Old Fort Drive, Georgetown, Kentucky 40324*

Has attended and satisfactorily passed an examination covering the contents of an EPA/AHERA approved course entitled

## *Asbestos Inspector Refresher (4-Hour) Training Course*

7214880013  
Certificate Number

7910  
Social Security Number

August 15, 2014  
Course Date

August 15, 2014  
Exam Date

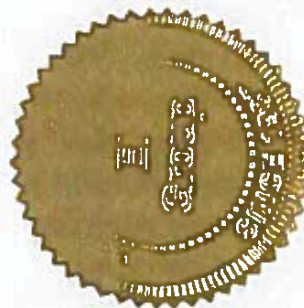
August 15, 2015  
Expiration Date

Louisville, KY  
Course Location

*Barry A. Maxwell*  
Barry Maxwell, Training Manager

*Kerri Boddy*  
Kerri Boddy, Principal Instructor

*Kerri Boddy*  
Kerri Boddy, Exam Administrator



3240 Office Pointe Place, Suite 102  
Louisville, KY 40220  
888-372-5859

**SPECIAL NOTE  
FOR  
Railroad Involvement**

**There is no Railroad involvement on this project.**

4-18 & 4-19

July 27, 2015

## Right-of-Way Certification Form

Revised 2/22/11

☒ Federal Funded  
☐ State Funded

☒ Original  
☐ Re-Certification

This form must be completed and submitted to FHWA with the PS&E package for federal-aid funded Interstate, Appalachia, and Major projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under Conditions No. 2 or 3 outlined elsewhere in this form. When Condition No. 2 or 3 apply, KYTC shall resubmit this ROW Certification prior to construction contract Award. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: 7/07/15

Project Name: Widen I-65 (Tennessee-Louisville)

Letting Date: Aug 21 2015

Project #: 12FO FD52 047 88819 01R

County: Hardin

Item #: 04-18.00

Federal #: NHPP0654 (046)

Description of Project: HARDIN I-65, WIDEN I-65 TO 6 LANES FROM 0.6 MI N OF OLD SONORA RD TO 0.7 MI N OF KY 222. INCLUDES NOLIN RIVER BRIDGE

### Projects that require NO new or additional right-of-way acquisitions and/or relocations

- ☐ The proposed transportation improvement will be built within the existing rights-of-way and there are no properties to be acquired, individuals, families, and businesses ("relocatees") to be relocated, or improvements to be removed as a part of this project.

### Projects that require new or additional right-of-way acquisitions and/or relocations

- ☒ Per 23 CFR 635.309, the KYTC hereby certify that all relocatees have been relocated to decent, safe, and sanitary housing or that KYTC has made available to relocatees adequate replacement housing in accordance with the provisions of the current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program and that at least one of the following three conditions has been met. (Check those that apply.)

- ☒ **Condition 1.** All necessary rights-of-way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Fair market value has been paid or deposited with the court.
- ☐ **Condition 2.** Although all necessary rights-of-way have not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Trial or appeal of some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Fair market value has been paid or deposited with the court for most parcels. Fair market value for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract. (See note 1 below.)

**Note 1:** The KYTC shall re-submit a right-of-way certification form for this project prior to AWARD of all Federal-Aid construction contracts. Award must not to be made until after KYTC has obtained full legal possession and fair market value for all parcels has been paid or deposited with the court and FHWA has concurred in the re-submitted right-of-way certification.

## Right-of-Way Certification Form

Revised 2/22/11

- ☐ **Condition 3.** The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. However, all remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. The KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair market value will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction. A full explanation and reason for this request, including identification of each such parcel and dates on which acquisitions, payments, and relocations will be completed, is attached to this certification form for FHWA concurrence. (See note 2.)

**Note 2:** The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to bid letting shall be the exception and never become the rule. In all cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees prior to AWARD of all Federal-Aid construction contracts or force account construction.

Approved:

Michael H. Price  
Printed Name

Michael H. Price  
Signature

Right-of-Way Supervisor

Approved:

Dan Lay  
Printed Name

Dan Lay  
Signature

08 July 2015  
KYTC, Director of ROW & Utilities

Approved:

\_\_\_\_\_  
Printed Name

No Signature Required  
as per FHWA - KYTC  
2013 Stewardship Agreement

\_\_\_\_\_  
FHWA, ROW Officer (when applicable)

## Right-of-Way Certification Form

Revised 2/22/11

Date: 7/07/15

Project Name: Widen I-65 (Tennessee-Louisville)  
Project #: 12FO FD52 047 88819 01R  
Item #: 04-18.00  
Letting Date: August 21, 2015

County: Hardin  
Federal #: HSIP 9010 (122)

This project has 8 total number of parcels to be acquired, and 0 total number of individuals or families to be relocated, as well as 0 total number of businesses to be relocated.

- 8 Parcels where acquired by a signed fee simple deed and fair market value has been paid
- 0 Parcels have been acquired by IOJ through condemnation and fair market value has been deposited with the court
- 0 Parcels have not been acquired at this time (explain below for each parcel)
- 0 Parcels have been acquired or have a "right of entry" but fair market value has not been paid or has not been deposited with the court (explain below for each parcel)
- 0 Relocatees have not been relocated from parcels \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ (explain below for each parcel)

| Parcel # | Name/Station | Explanation for delayed acquisition, delayed relocation, or delayed payment of fair market value | Proposed date of payment or of relocation |
|----------|--------------|--------------------------------------------------------------------------------------------------|-------------------------------------------|
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |

There are 0 billboards and/or 0 cemeteries involved on this project.

There are 0 water or monitoring wells on parcels \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. All have been acquired and are the responsibility of the project contractor to close/cap.

Form Effective Date: April 1, 2006  
Last Revised: February 22, 2011

## Right-of-Way Certification Form

Revised 2/22/11

☒ Federal Funded

☒ Original

☐ State Funded

☐ Re-Certification

This form must be completed and submitted to FHWA with the PS&E package for federal-aid funded Interstate, Appalachia, and Major projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under Conditions No. 2 or 3 outlined elsewhere in this form. When Condition No. 2 or 3 apply, KYTC shall resubmit this ROW Certification prior to construction contract Award. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: 7/07/15

Project Name: Widen I-65 (Tennessee-Louisville)

Letting Date: Aug 21 2015

Project #: 12FO FD52 047 89543 01R

County: Hardin

Item #: 04-19.00

Federal #: NHPP0654 (047)

Description of Project: HARDIN I-65 WIDEN I-65 TO 6 LANES FROM 0.7 MI N OF KY 222 TO WESTERN KENTUCKY PKWY.

### Projects that require NO new or additional right-of-way acquisitions and/or relocations

- ☐ The proposed transportation improvement will be built within the existing rights-of-way and there are no properties to be acquired, individuals, families, and businesses ("relocatees") to be relocated, or improvements to be removed as a part of this project.

### Projects that require new or additional right-of-way acquisitions and/or relocations

- ☒ Per 23 CFR 635.309, the KYTC hereby certify that all relocatees have been relocated to decent, safe, and sanitary housing or that KYTC has made available to relocatees adequate replacement housing in accordance with the provisions of the current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program and that at least one of the following three conditions has been met. (Check those that apply.)
- ☒ **Condition 1.** All necessary rights-of-way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Fair market value has been paid or deposited with the court.
- ☐ **Condition 2.** Although all necessary rights-of-way have not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Trial or appeal of some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Fair market value has been paid or deposited with the court for most parcels. Fair market value for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract. (See note 1 below.)

**Note 1:** The KYTC shall re-submit a right-of-way certification form for this project prior to AWARD of all Federal-Aid construction contracts. Award must not be made until after KYTC has obtained full legal possession and fair market value for all parcels has been paid or deposited with the court and FHWA has concurred in the re-submitted right-of-way certification.

## Right-of-Way Certification Form

Revised 2/22/11

- ☐ **Condition 3.** The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. However, all remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. The KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair market value will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction. A full explanation and reason for this request, including identification of each such parcel and dates on which acquisitions, payments, and relocations will be completed, is attached to this certification form for FHWA concurrence. (See note 2.)

**Note 2:** The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to bid letting shall be the exception and never become the rule. In all cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees prior to AWARD of all Federal-Aid construction contracts or force account construction.

Approved:

Michael H. Price  
Printed Name

Michael H. Price  
Signature

Right-of-Way Supervisor

Approved:

Dan Loy  
Printed Name

Dan Loy  
Signature

08 July 2015  
KYTC, Director of ROW & Utilities

Approved:

Printed Name

No Signature Required  
as per FHWA - KYTC  
2013 Stewardship Agreement

Signature

FHWA, ROW Officer (when applicable)

## Right-of-Way Certification Form

Revised 2/22/11

Date: 7/07/15

Project Name: Widen I-65 (Tennessee-Louisville)

Project #: 12FO FD52 047 89543 01R

Item #: 04-19.00

Letting Date: August 21, 2015

County: Hardin

Federal #: NHPP0654 (047)

This project has 2 total number of parcels to be acquired, and 0 total number of individuals or families to be relocated, as well as 0 total number of businesses to be relocated.

2 Parcels where acquired by a signed fee simple deed and fair market value has been paid

0 Parcels have been acquired by IOJ through condemnation and fair market value has been deposited with the court

0 Parcels have not been acquired at this time (explain below for each parcel)

0 Parcels have been acquired or have a "right of entry" but fair market value has not been paid or has not been deposited with the court (explain below for each parcel)

0 Relocatees have not been relocated from parcels \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ (explain below for each parcel)

| Parcel # | Name/Station | Explanation for delayed acquisition, delayed relocation, or delayed payment of fair market value | Proposed date of payment or of relocation |
|----------|--------------|--------------------------------------------------------------------------------------------------|-------------------------------------------|
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |
|          |              |                                                                                                  |                                           |

There are 0 billboards and/or 0 cemeteries involved on this project.

There are 0 water or monitoring wells on parcels \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. All have been acquired and are the responsibility of the project contractor to close/cap.

Form Effective Date: April 1, 2006

Last Revised: February 22, 2011

SPECIAL NOTES FOR UTILITY CLEARANCE

IMPACT ON CONSTRUCTION

HARDIN COUNTY, NH IM 0654 (046)

FD52 047 88819 01R

Widen I-65 to 6 Lanes

SYP Item No. 4-18.00

GENERAL PROJECT NOTE ON UTILITY PROTECTION

Utility coordination efforts determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.

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

N/A

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

N/A

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

AT&T Corporation will be relocating and/or adjusting buried fiber optic telephone cable in private easement along R/W. This relocation will not be completed prior to the letting date of the road construction. During construction these areas are not to be disturbed by or conflict with road construction activities. Anticipated clearance date unknown at present.

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

N/A

## **SPECIAL NOTES FOR UTILITY CLEARANCE**

### **IMPACT ON CONSTRUCTION**

**HARDIN COUNTY, NH IM 0654 (046)**  
**FD52 047 88819 01R**  
**Widen I-65 to 6 Lanes**  
**SYP Item No. 4-18.00**

### **SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES**

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

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

### **BEFORE YOU DIG**

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

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

SPECIAL NOTES FOR UTILITY CLEARANCE

IMPACT ON CONSTRUCTION

HARDIN COUNTY, NHPP IM 0654(050)  
FD52 047 89543 01U  
Widen I-65 to 6 Lanes  
SYP Item No. 4-19.00

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Utility coordination efforts determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.

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

N/A

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

N/A

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

N/A

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

N/A

## **SPECIAL NOTES FOR UTILITY CLEARANCE**

### **IMPACT ON CONSTRUCTION**

**HARDIN COUNTY, NHPP IM 0654(050)**  
**FD52 047 89543 01U**  
**Widen I-65 to 6 Lanes**  
**SYP Item No. 4-19.00**

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# *N O T I C E*

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**DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS  
NATIONWIDE PERMIT AUTHORIZATION  
KENTUCKY DIVISION OF WATER 401 WQC**

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**PROJECT:** Hardin County, Item No. 4-18  
I-65 Widening and Reconstruction

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The Section 404 & 401 activities for this project have been previously permitted under the authority of the Department of the Army Nationwide Permit No. 14 "Linear Transportation Projects" & Division of Water General Water Quality Certification. In order for these authorizations to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Permit & General WQC in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

Station 529+40.00 -  
Station 533+10.00  
See sheet R9 & R11

Replace an existing 3 span bridge with a new 3 span bridge over the Nolin River to accommodate interstate widening in the middle of the interstate. The **perennial** stream will have impacts below the normal high water mark due to construction of a pier near the edge of the ordinary high water mark. It is likely that some fill and rip-rap bank stabilization will be placed in that area. This is necessary to reduce scour during large flood events. The estimated area of impact is **130 linear feet** and **0.028acres**. The drainage area at the bridge is **112,680 acres**.  
**Lat 37.559892, Long -85.876540**

This project involves work near and/or within Jurisdictional Waters of the United States as defined by the United States Army Corps of Engineers and therefore requires a Nationwide 14 General 404 Permit. The Division of Water certified this General Permit with several conditions (See attached). One that should be brought to your attention is regarding the use of heavy equipment in the stream channel. If there is need to cross the stream channel with heavy equipment or conduct work from within the stream channel a working platform or temporary crossing is authorized. This should be constructed with clean rock and sufficient pipe to allow stream flow to continue unimpeded (see attached typical drawing).

In order for this authorization to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Approval in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

To more readily expedite construction, the contractor may elect to alter the design or perform the work in a manner different from what was originally proposed and specified. Prior to commencing such alternative work, the contractor shall obtain **written** permission from the Division of Construction and the Division of Environmental Analysis. If such changes necessitate further permitting then the contractor will be responsible for applying to the Army Corps of Engineers and the Kentucky Division of Water (KDOW). A copy of any request to the Corps of Engineers or the KDOW to alter this proposal and subsequent responses shall be forwarded to the Division of Environmental Analysis, DA Permit Coordinator, for office records and for informational purposes.



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENTAL PROTECTION CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

200 FAIR OAKS LANE

FRANKFORT, KENTUCKY 40601

[www.kentucky.gov](http://www.kentucky.gov)

**General Certification--Nationwide Permit # 14  
Linear Transportation Projects**

This General Certification is issued March 19, 2012, in conformity with the requirements of Section 401 of the Clean Water Act of 1977, as amended (33 U.S.C. §1341), as well as Kentucky Statute KRS 224.16-050.

For this and all nationwide permits, the definition of surface water is as per 401 KAR 10:001 Chapter 10, Section 1(80): Surface Waters means those waters having well-defined banks and beds, either constantly or intermittently flowing; lakes and impounded waters; marshes and wetlands; and any subterranean waters flowing in well-defined channels and having a demonstrable hydrologic connection with the surface. Lagoons used for waste treatment and effluent ditches that are situated on property owned, leased, or under valid easement by a permitted discharger are not considered to be surface waters of the commonwealth.

Agricultural operations, as defined by KRS 224.71-100(1) conducting activities pursuant to KRS 224.71-100 (3), (4), (5), (6), or 10 are deemed to have certification if they are implementing an Agriculture Water Quality Plan pursuant to KRS 224.71-145.

For all other operations, the Commonwealth of Kentucky hereby certifies under Section 401 of the Clean Water Act (CWA) that it has reasonable assurances that applicable water quality standards under Kentucky Administrative Regulations Title 401, Chapter 10, established pursuant to Sections 301, 302, 304, 306 and 307 of the CWA, will not be violated for the activity covered under NATIONWIDE PERMIT 14, namely Linear Transportation Projects, provided that the following conditions are met:

1. The activity will not occur within surface waters of the Commonwealth identified by the Kentucky Division of Water as Outstanding State or National Resource Water, Cold Water Aquatic Habitat, or Exceptional Waters.
2. The activity will not occur within surface waters of the Commonwealth identified as perpetually-protected (e.g. deed restriction, conservation easement) mitigation sites.
3. The activity will impact less than 1/2 acre of wetland/marsh.
4. The activity will impact less than 300 linear feet of surface waters of the Commonwealth. Stream realignment greater than 100 feet is not covered under this general water quality certification.

**General Certification--Nationwide Permit # 14**  
**Linear Transportation Projects**  
**Page 2**

5. For a single and complete linear transportation project, the cumulative length of impacts less than 300 linear feet of surface waters within each Hydrologic Unit Code (HUC) 14 watershed will not exceed 500 linear feet.
6. Stream impacts covered under this General Water Quality Certification and undertaken by those persons defined as an agricultural operation under the Agricultural Water Quality Act must be completed in compliance with the Kentucky Agricultural Water Quality Plan (KWQP).
7. The Kentucky Division of Water may require submission of a formal application for an individual certification for any project if the project has been determined to likely have a significant adverse effect upon water quality or degrade the waters of the Commonwealth so that existing uses of the water body or downstream waters are precluded.
8. Activities that do not meet the conditions of this General Water Quality Certification require an Individual Section 401 Water Quality Certification.
9. Activities qualifying for coverage under this General Water Quality Certification are subject to the following conditions:
  - Erosion and sedimentation pollution control plans and Best Management Practices must be designed, installed, and maintained in effective operating condition at all times during construction activities so that violations of state water quality standards do not occur (401 KAR 10:031 Section 2 and KRS 224.70-100).
  - Sediment and erosion control measures, such as check-dams constructed of any material, silt fencing, hay bales, etc., shall not be placed within surface waters of the Commonwealth, either temporarily or permanently, without prior approval by the Kentucky Division of Water's Water Quality Certification Section. If placement of sediment and erosion control measures in surface waters is unavoidable, design and placement of temporary erosion control measures shall not be conducted in such a manner that may result in instability of streams that are adjacent to, upstream, or downstream of the structures. All sediment and erosion control devices shall be removed and the natural grade restored within the completion timeline of the activities.
  - Measures shall be taken to prevent or control spills of fuels, lubricants, or other toxic materials used in construction from entering the watercourse.
  - Removal of riparian vegetation in the utility line right-of-way shall be limited to that necessary for equipment access.
  - To the maximum extent practicable, all in-stream work under this certification shall be performed under low-flow conditions.

**General Certification--Nationwide Permit # 14**  
**Linear Transportation Projects**  
**Page 2**

- Heavy equipment, e.g. bulldozers, backhoes, draglines, etc., if required for this project, should not be used or operated within the stream channel. In those instances in which such in-stream work is unavoidable, then it shall be performed in such a manner and duration as to minimize turbidity and disturbance to substrates and bank or riparian vegetation.
- Any fill shall be of such composition that it will not adversely affect the biological, chemical, or physical properties of the receiving waters and/or cause violations of water quality standards. If rip-rap is utilized, it should be of such weight and size that bank stress or slump conditions will not be created because of its placement.
- If there are water supply intakes located downstream that may be affected by increased turbidity and suspended solids, the permittee shall notify the operator when such work will be done.
- Should evidence of stream pollution or jurisdictional wetland impairment and/or violations of water quality standards occur as a result of this activity (either from a spill or other forms of water pollution), the KDOW shall be notified immediately by calling (800) 928-2380.

Non-compliance with the conditions of this general certification or violation of Kentucky state water quality standards may result in civil penalties.

### **KENTUCKY REGIONAL GENERAL CONDITIONS**

These regional conditions are in addition to, but do not supersede, the requirements in the Federal Register (Volume 77 No. 34 of February 21, 2012)

Notifications for all Nationwide Permits (NWP) shall be in accordance with General Condition No. 31.

1. For activities that would result in a loss of Outstanding State or National Resource Waters (OSNRWs), Exceptional Waters (EWs), Coldwater Aquatic Habitat Waters (CAHs) and waters with Designated Critical Habitat (DCH) under the Endangered Species Act for the NWP listed below, a Pre-Construction Notification (PCN) will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWP for impacts to these waters.

NWP 3 (Maintenance)

NWP 7 (Outfall Structures and Associated Intake Structures)

NWP 12 (Utility Line Activities)

NWP 14 (Linear Transportation Projects)

NWP 29 (Residential Developments)

NWP 39 (Commercial and Institutional Developments)

NWP 40 (Agricultural Activities)

NWP 41 (Reshaping Existing Drainage Ditches)

NWP 42 (Recreational Facilities)

NWP 43 (Stormwater Management Facilities)

NWP 44 (Mining Activities)

NWP 51 (Land-Based Renewable Energy Generation Facilities)

NWP 52 (Water-Based Renewable Energy Generation Pilot Projects)

2. In addition to the notification and agency coordination requirements in the NWP, for impacts greater than 0.25 acres in all "waters of the U.S." for the NWP listed below, a PCN will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWP:

NWP 3 (Maintenance)

NWP 7 (Outfall Structures and Associated Intake Structures)

NWP 12 (Utility Line Activities)

NWP 14 (Linear Transportation Projects)

NWP 29 (Residential Developments)

NWP 39 (Commercial and Institutional Developments)

NWP 40 (Agricultural Activities)

NWP 41 (Reshaping Existing Drainage Ditches)

NWP 42 (Recreational Facilities)

NWP 43 (Stormwater Management Facilities)

NWP 44 (Mining Activities)

NWP 51 (Land-Based Renewable Energy Generation Facilities)

NWP 52 (Water-Based Renewable Energy Generation Pilot Projects)

3. For activities in all "waters of the U.S." for the NWP's listed below, a PCN will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWP's:

NWP 21 (Surface Coal Mining Activities)

NWP 27 (Aquatic Habitat Restoration, Establishment & Enhancement Activities)

NWP 49 (Coal Remining Activities)

NWP 50 (Underground Coal Mining Activities)

4. Nationwide Permit No. 14 – Linear Transportation Projects.

- (a) Activities in Section 10 navigable waters will require a PCN to the Corps.
- (b) New public road alignments or realignments are limited to a permanent loss of 500 linear feet of intermittent or perennial stream length at each crossing. Public road crossings with permanent losses greater than 500 linear feet of intermittent or perennial stream associated with new alignments or realignments will be evaluated as an individual permit i.e., a Letter of Permission or as a Standard Individual Permit.
- (c) All linear transportation project crossings resulting in the permanent loss of greater than 300 linear feet of intermittent or perennial stream will require mitigation to compensate for impacts to the "waters of the U.S." The permanent loss of "waters of the U.S." includes the linear feet of water that is permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity and not restored to pre-construction contours and elevations after construction. In addition to the notification requirements contained in NWP 14, the permittee must submit a PCN to the district engineer prior to commencing the activity for the permanent loss of greater than 300 feet of intermittent and perennial stream of all "waters of the U.S.". (See General Condition 31 and the definition of "loss of waters of the United States" in the Nationwide Permits for further information.)

Further information:

Outstanding State or National Resource Water (OSNRWs), Exceptional Waters (EWs), and Coldwater Aquatic Habitat Waters (CAHs) are waters designated by the Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet. The list can be found at the following link: <http://eppcapp.ky.gov/spwaters/>

Designated Critical Habitat (DCH) under the Endangered Species Act is determined within the Commonwealth of Kentucky by the U.S. Fish and Wildlife Service. The current list of Kentucky's Threatened, Endangered, and Federal Candidate Species can be found at the following link: <http://www.fws.gov/frankfort/EndangeredSpecies.html>

Information on Pre-Construction Notification (PCN) can be found at NWP General Condition No. 31 (Federal Register, Volume 77, No. 34, Tuesday, February 21, 2012, pp 10286-10288). Mitigation includes activities that avoid, minimize, and compensate for impacts.

**COORDINATING RESOURCE AGENCIES**

Chief, Wetlands Regulatory Section  
U.S. Environmental Protection Agency  
Region IV

Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

Supervisor  
U.S. Fish & Wildlife Service  
JC Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, Kentucky 40601

Supervisor  
401 Water Quality Certification  
Kentucky Division of Water  
200 Fair Oaks Lane, 4th Floor  
Frankfort, Kentucky 40601

Commissioner  
Department of Fish and Wildlife Resources  
#1 Game Farm Road  
Frankfort, Kentucky 40601  
Executive Director and State Historic Preservation Officer  
Kentucky Heritage Council  
300 Washington Street  
Frankfort, Kentucky 40601

**ADDITIONAL COORDINATING RESOURCE AGENCY  
FOR NWPS 21, 49, AND 50**

Kentucky Department of Natural Resources  
Division of Mine Permits  
#2 Hudson Hollow  
Frankfort, Kentucky 40601



US Army Corps of Engineers

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## Nationwide Permit

### No. 14, Linear Transportation Projects

Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States.

- a. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/3-acre of waters of the United States.
- b. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.
- c. This NWP also authorizes temporary structures, fills, and work necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.
- d. This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds

1/10-acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 31.) (Sections 10 and 404)

Note: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under Section 404(f) of the Clean Water Act (see 33 CFR 323.4).

Valid from March 19, 2012 through March 18, 2017

## Nationwide Permit General Conditions

**Note:** To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR §§ 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR § 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. **Navigation.** (a) No activity may cause more than a minimal adverse effect on navigation.  
(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.  
(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
2. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.
3. **Spawning Areas.** Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.
4. **Migratory Bird Breeding Areas.** Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.
5. **Shellfish Beds.** No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.
6. **Suitable Material.** No activity may use unsuitable material (e.g., trash, debris, car

bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River

designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.

(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.noaa.gov/fisheries.html> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must

still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.

(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist

of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with

any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

\_\_\_\_\_  
(Transferee)

\_\_\_\_\_  
(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

- (a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;
- (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
- (c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or  
(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;  
(2) Location of the proposed project;  
(3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative

description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWP and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments.

The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWP, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

#### **D. District Engineer's Decision**

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. For a linear project, this determination will include an evaluation of the individual crossings to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to intermittent or ephemeral streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51 or 52, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in minimal adverse effects. When making minimal effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

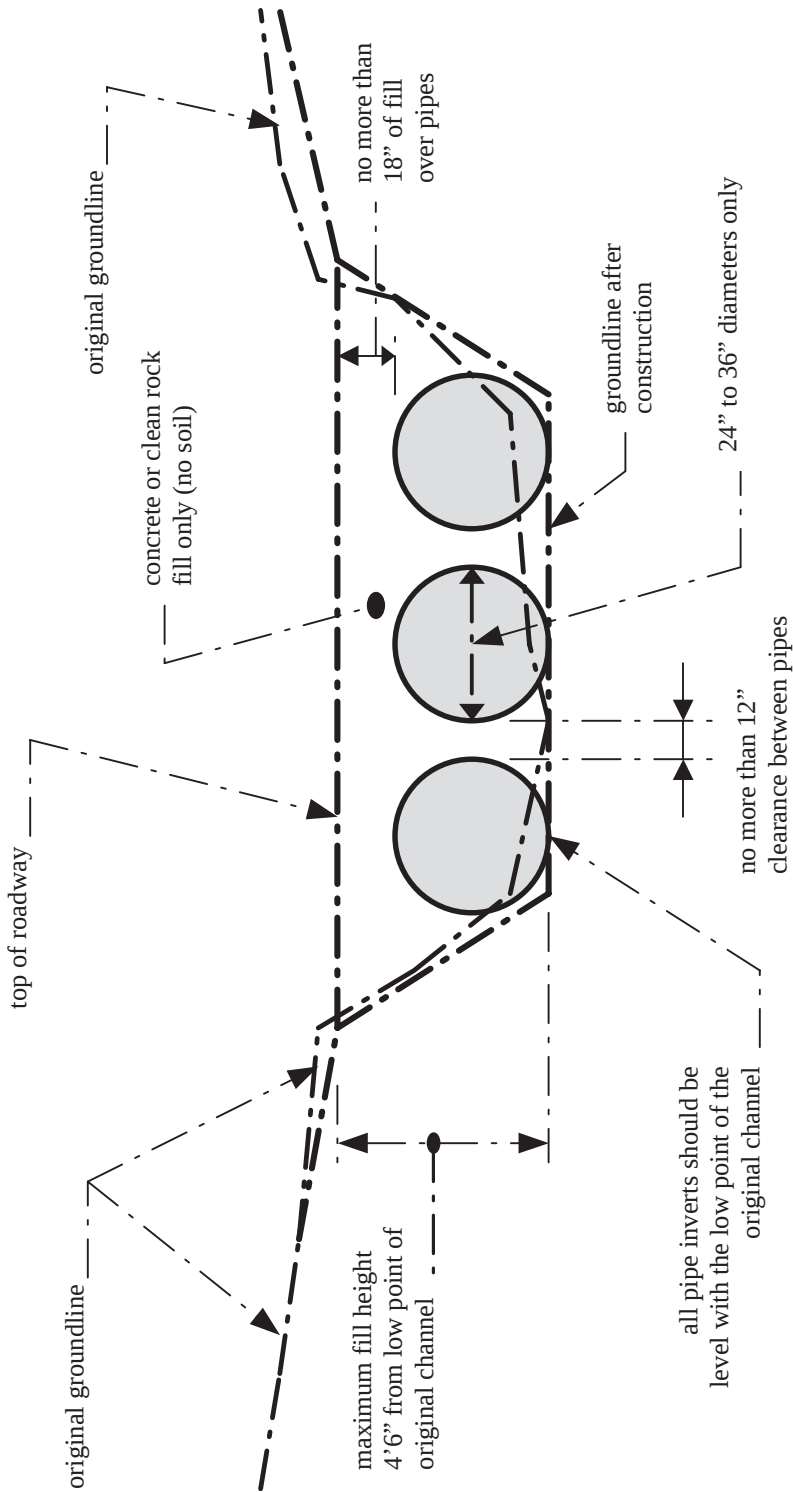
2. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

3. If the district engineer determines that the adverse effects of the proposed work are more than minimal, then the district engineer will notify the applicant either: (a) that the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the project is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (c) that the project is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period, with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

#### **E. Further Information**

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project.

ATTACHMENT 1



NOTES:

- 1. This is a conceptual drawing. The number and size of pipes and other details will vary depending on specific site conditions.
- 2. The pipes and backfill must be contained within the stream channel as shown above. During the construction of the approaches and access roadway across the floodplain, unstable and unconsolidated materials unsuitable for roadways may be excavated and replaced with riprap, crushed stone, or other stable road construction materials. This may only be done, however, with the following provisions: (1) the disposal of excess, unconsolidated materials thus excavated must be outside of the floodplain and (2) the finished surface of the completed road may be no more than three inches (3") above the pre-construction surface of the floodplain at any point beyond the top of banks.

LOW-WATER CROSSING

STANDARD DRAWING  
Not to Scale

# *N O T I C E*

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**DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS  
NATIONWIDE PERMIT AUTHORIZATION  
KENTUCKY DIVISION OF WATER 401 WQC**

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**PROJECT:** Hardin County, Item No. 4-19  
I-65 Widening and Reconstruction

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The Section 404 & 401 activities for this project have been previously permitted under the authority of the Department of the Army Nationwide Permit No. 14 "Linear Transportation Projects" & Division of Water General Water Quality Certification. In order for these authorizations to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Permit & General WQC in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

Station 772+02.00  
See sheet R13

Extend an 18" reinforced concrete pipe to accommodate interstate widening in the middle of the interstate. The **ephemeral** stream will have an area of impact of **20 linear feet** and **0.0009 acres**. The drainage area at the bridge is **4 acres**.  
**Lat 37.625069, Long -85.861930**

This project involves work near and/or within Jurisdictional Waters of the United States as defined by the United States Army Corps of Engineers and therefore requires a Nationwide 14 General 404 Permit. The Division of Water certified this General Permit with several conditions (See attached). One that should be brought to your attention is regarding the use of heavy equipment in the stream channel. If there is need to cross the stream channel with heavy equipment or conduct work from within the stream channel a working platform or temporary crossing is authorized. This should be constructed with clean rock and sufficient pipe to allow stream flow to continue unimpeded (see attached typical drawing).

In order for this authorization to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Approval in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

To more readily expedite construction, the contractor may elect to alter the design or perform the work in a manner different from what was originally proposed and specified. Prior to commencing such alternative work, the contractor shall obtain **written** permission from the Division of Construction and the Division of Environmental Analysis. If such changes necessitate further permitting then the contractor will be responsible for applying to the Army Corps of Engineers and the Kentucky Division of Water (KDOW). A copy of any request to the Corps of Engineers or the KDOW to alter this proposal and subsequent responses shall be forwarded to the Division of Environmental Analysis, DA Permit Coordinator, for office records and for informational purposes.



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENTAL PROTECTION CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

200 FAIR OAKS LANE

FRANKFORT, KENTUCKY 40601

[www.kentucky.gov](http://www.kentucky.gov)

**General Certification--Nationwide Permit # 14  
Linear Transportation Projects**

This General Certification is issued March 19, 2012, in conformity with the requirements of Section 401 of the Clean Water Act of 1977, as amended (33 U.S.C. §1341), as well as Kentucky Statute KRS 224.16-050.

For this and all nationwide permits, the definition of surface water is as per 401 KAR 10:001 Chapter 10, Section 1(80): Surface Waters means those waters having well-defined banks and beds, either constantly or intermittently flowing; lakes and impounded waters; marshes and wetlands; and any subterranean waters flowing in well-defined channels and having a demonstrable hydrologic connection with the surface. Lagoons used for waste treatment and effluent ditches that are situated on property owned, leased, or under valid easement by a permitted discharger are not considered to be surface waters of the commonwealth.

Agricultural operations, as defined by KRS 224.71-100(1) conducting activities pursuant to KRS 224.71-100 (3), (4), (5), (6), or 10 are deemed to have certification if they are implementing an Agriculture Water Quality Plan pursuant to KRS 224.71-145.

For all other operations, the Commonwealth of Kentucky hereby certifies under Section 401 of the Clean Water Act (CWA) that it has reasonable assurances that applicable water quality standards under Kentucky Administrative Regulations Title 401, Chapter 10, established pursuant to Sections 301, 302, 304, 306 and 307 of the CWA, will not be violated for the activity covered under NATIONWIDE PERMIT 14, namely Linear Transportation Projects, provided that the following conditions are met:

1. The activity will not occur within surface waters of the Commonwealth identified by the Kentucky Division of Water as Outstanding State or National Resource Water, Cold Water Aquatic Habitat, or Exceptional Waters.
2. The activity will not occur within surface waters of the Commonwealth identified as perpetually-protected (e.g. deed restriction, conservation easement) mitigation sites.
3. The activity will impact less than 1/2 acre of wetland/marsh.
4. The activity will impact less than 300 linear feet of surface waters of the Commonwealth. Stream realignment greater than 100 feet is not covered under this general water quality certification.

**General Certification--Nationwide Permit # 14**  
**Linear Transportation Projects**  
**Page 2**

5. For a single and complete linear transportation project, the cumulative length of impacts less than 300 linear feet of surface waters within each Hydrologic Unit Code (HUC) 14 watershed will not exceed 500 linear feet.
6. Stream impacts covered under this General Water Quality Certification and undertaken by those persons defined as an agricultural operation under the Agricultural Water Quality Act must be completed in compliance with the Kentucky Agricultural Water Quality Plan (KWQP).
7. The Kentucky Division of Water may require submission of a formal application for an individual certification for any project if the project has been determined to likely have a significant adverse effect upon water quality or degrade the waters of the Commonwealth so that existing uses of the water body or downstream waters are precluded.
8. Activities that do not meet the conditions of this General Water Quality Certification require an Individual Section 401 Water Quality Certification.
9. Activities qualifying for coverage under this General Water Quality Certification are subject to the following conditions:
  - Erosion and sedimentation pollution control plans and Best Management Practices must be designed, installed, and maintained in effective operating condition at all times during construction activities so that violations of state water quality standards do not occur (401 KAR 10:031 Section 2 and KRS 224.70-100).
  - Sediment and erosion control measures, such as check-dams constructed of any material, silt fencing, hay bales, etc., shall not be placed within surface waters of the Commonwealth, either temporarily or permanently, without prior approval by the Kentucky Division of Water's Water Quality Certification Section. If placement of sediment and erosion control measures in surface waters is unavoidable, design and placement of temporary erosion control measures shall not be conducted in such a manner that may result in instability of streams that are adjacent to, upstream, or downstream of the structures. All sediment and erosion control devices shall be removed and the natural grade restored within the completion timeline of the activities.
  - Measures shall be taken to prevent or control spills of fuels, lubricants, or other toxic materials used in construction from entering the watercourse.
  - Removal of riparian vegetation in the utility line right-of-way shall be limited to that necessary for equipment access.
  - To the maximum extent practicable, all in-stream work under this certification shall be performed under low-flow conditions.

**General Certification--Nationwide Permit # 14**  
**Linear Transportation Projects**  
**Page 2**

- Heavy equipment, e.g. bulldozers, backhoes, draglines, etc., if required for this project, should not be used or operated within the stream channel. In those instances in which such in-stream work is unavoidable, then it shall be performed in such a manner and duration as to minimize turbidity and disturbance to substrates and bank or riparian vegetation.
- Any fill shall be of such composition that it will not adversely affect the biological, chemical, or physical properties of the receiving waters and/or cause violations of water quality standards. If rip-rap is utilized, it should be of such weight and size that bank stress or slump conditions will not be created because of its placement.
- If there are water supply intakes located downstream that may be affected by increased turbidity and suspended solids, the permittee shall notify the operator when such work will be done.
- Should evidence of stream pollution or jurisdictional wetland impairment and/or violations of water quality standards occur as a result of this activity (either from a spill or other forms of water pollution), the KDOW shall be notified immediately by calling (800) 928-2380.

Non-compliance with the conditions of this general certification or violation of Kentucky state water quality standards may result in civil penalties.

### **KENTUCKY REGIONAL GENERAL CONDITIONS**

These regional conditions are in addition to, but do not supersede, the requirements in the Federal Register (Volume 77 No. 34 of February 21, 2012)

Notifications for all Nationwide Permits (NWP) shall be in accordance with General Condition No. 31.

1. For activities that would result in a loss of Outstanding State or National Resource Waters (OSNRWs), Exceptional Waters (EWs), Coldwater Aquatic Habitat Waters (CAHs) and waters with Designated Critical Habitat (DCH) under the Endangered Species Act for the NWP listed below, a Pre-Construction Notification (PCN) will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWP for impacts to these waters.

NWP 3 (Maintenance)

NWP 7 (Outfall Structures and Associated Intake Structures)

NWP 12 (Utility Line Activities)

NWP 14 (Linear Transportation Projects)

NWP 29 (Residential Developments)

NWP 39 (Commercial and Institutional Developments)

NWP 40 (Agricultural Activities)

NWP 41 (Reshaping Existing Drainage Ditches)

NWP 42 (Recreational Facilities)

NWP 43 (Stormwater Management Facilities)

NWP 44 (Mining Activities)

NWP 51 (Land-Based Renewable Energy Generation Facilities)

NWP 52 (Water-Based Renewable Energy Generation Pilot Projects)

2. In addition to the notification and agency coordination requirements in the NWP, for impacts greater than 0.25 acres in all "waters of the U.S." for the NWP listed below, a PCN will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWP:

NWP 3 (Maintenance)

NWP 7 (Outfall Structures and Associated Intake Structures)

NWP 12 (Utility Line Activities)

NWP 14 (Linear Transportation Projects)

NWP 29 (Residential Developments)

NWP 39 (Commercial and Institutional Developments)

NWP 40 (Agricultural Activities)

NWP 41 (Reshaping Existing Drainage Ditches)

NWP 42 (Recreational Facilities)

NWP 43 (Stormwater Management Facilities)

NWP 44 (Mining Activities)

NWP 51 (Land-Based Renewable Energy Generation Facilities)

NWP 52 (Water-Based Renewable Energy Generation Pilot Projects)

3. For activities in all "waters of the U.S." for the NWP's listed below, a PCN will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWP's:

NWP 21 (Surface Coal Mining Activities)

NWP 27 (Aquatic Habitat Restoration, Establishment & Enhancement Activities)

NWP 49 (Coal Remining Activities)

NWP 50 (Underground Coal Mining Activities)

4. Nationwide Permit No. 14 – Linear Transportation Projects.

- (a) Activities in Section 10 navigable waters will require a PCN to the Corps.
- (b) New public road alignments or realignments are limited to a permanent loss of 500 linear feet of intermittent or perennial stream length at each crossing. Public road crossings with permanent losses greater than 500 linear feet of intermittent or perennial stream associated with new alignments or realignments will be evaluated as an individual permit i.e., a Letter of Permission or as a Standard Individual Permit.
- (c) All linear transportation project crossings resulting in the permanent loss of greater than 300 linear feet of intermittent or perennial stream will require mitigation to compensate for impacts to the "waters of the U.S." The permanent loss of "waters of the U.S." includes the linear feet of water that is permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity and not restored to pre-construction contours and elevations after construction. In addition to the notification requirements contained in NWP 14, the permittee must submit a PCN to the district engineer prior to commencing the activity for the permanent loss of greater than 300 feet of intermittent and perennial stream of all "waters of the U.S.". (See General Condition 31 and the definition of "loss of waters of the United States" in the Nationwide Permits for further information.)

Further information:

Outstanding State or National Resource Water (OSNRWs), Exceptional Waters (EWs), and Coldwater Aquatic Habitat Waters (CAHs) are waters designated by the Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet. The list can be found at the following link: <http://eppcapp.ky.gov/spwaters/>

Designated Critical Habitat (DCH) under the Endangered Species Act is determined within the Commonwealth of Kentucky by the U.S. Fish and Wildlife Service. The current list of Kentucky's Threatened, Endangered, and Federal Candidate Species can be found at the following link: <http://www.fws.gov/frankfort/EndangeredSpecies.html>

Information on Pre-Construction Notification (PCN) can be found at NWP General Condition No. 31 (Federal Register, Volume 77, No. 34, Tuesday, February 21, 2012, pp 10286-10288). Mitigation includes activities that avoid, minimize, and compensate for impacts.

**COORDINATING RESOURCE AGENCIES**

Chief, Wetlands Regulatory Section  
U.S. Environmental Protection Agency  
Region IV

Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

Supervisor  
U.S. Fish & Wildlife Service  
JC Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, Kentucky 40601

Supervisor  
401 Water Quality Certification  
Kentucky Division of Water  
200 Fair Oaks Lane, 4th Floor  
Frankfort, Kentucky 40601

Commissioner  
Department of Fish and Wildlife Resources  
#1 Game Farm Road  
Frankfort, Kentucky 40601  
Executive Director and State Historic Preservation Officer  
Kentucky Heritage Council  
300 Washington Street  
Frankfort, Kentucky 40601

**ADDITIONAL COORDINATING RESOURCE AGENCY  
FOR NWPS 21, 49, AND 50**

Kentucky Department of Natural Resources  
Division of Mine Permits  
#2 Hudson Hollow  
Frankfort, Kentucky 40601



US Army Corps of Engineers

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## Nationwide Permit

### No. 14, Linear Transportation Projects

Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States.

- a. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/3-acre of waters of the United States.
- b. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.
- c. This NWP also authorizes temporary structures, fills, and work necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.
- d. This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds

1/10-acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 31.) (Sections 10 and 404)

Note: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under Section 404(f) of the Clean Water Act (see 33 CFR 323.4).

Valid from March 19, 2012 through March 18, 2017

## Nationwide Permit General Conditions

**Note:** To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR §§ 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR § 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. **Navigation.** (a) No activity may cause more than a minimal adverse effect on navigation.  
(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.  
(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
2. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.
3. **Spawning Areas.** Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.
4. **Migratory Bird Breeding Areas.** Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.
5. **Shellfish Beds.** No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.
6. **Suitable Material.** No activity may use unsuitable material (e.g., trash, debris, car

bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River

designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.

(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.noaa.gov/fisheries.html> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must

still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.

(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist

of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with

any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

\_\_\_\_\_  
(Transferee)

\_\_\_\_\_  
(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

- (a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;
- (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
- (c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or  
(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;  
(2) Location of the proposed project;  
(3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative

description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWP and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments.

The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWP, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

#### **D. District Engineer's Decision**

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. For a linear project, this determination will include an evaluation of the individual crossings to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to intermittent or ephemeral streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51 or 52, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in minimal adverse effects. When making minimal effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

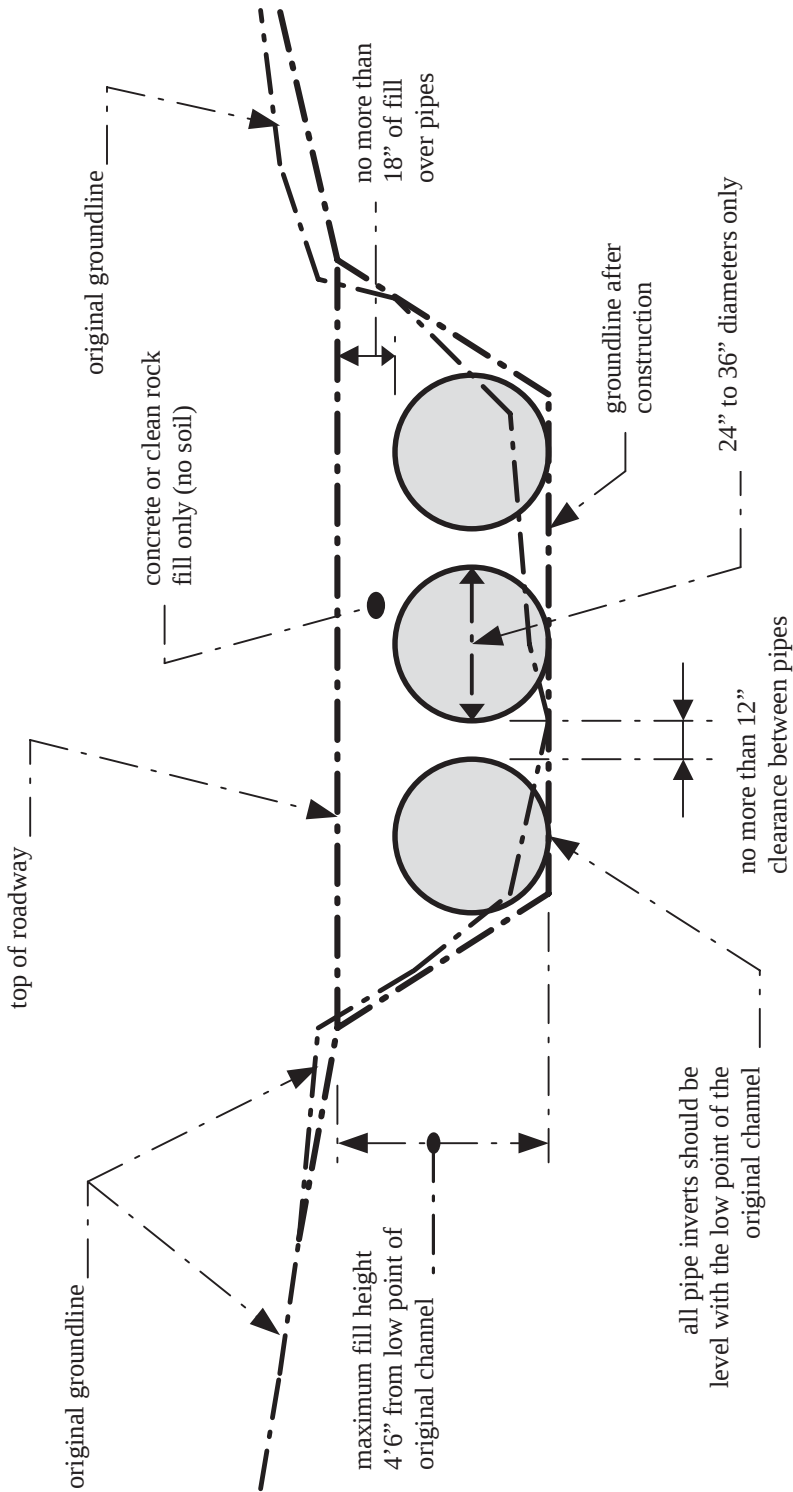
2. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

3. If the district engineer determines that the adverse effects of the proposed work are more than minimal, then the district engineer will notify the applicant either: (a) that the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the project is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (c) that the project is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period, with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

#### **E. Further Information**

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project.

ATTACHMENT 1



NOTES:

1. This is a conceptual drawing. The number and size of pipes and other details will vary depending on specific site conditions.
2. The pipes and backfill must be contained within the stream channel as shown above. During the construction of the approaches and access roadway across the floodplain, unstable and unconsolidated materials unsuitable for roadways may be excavated and replaced with riprap, crushed stone, or other stable road construction materials. This may only be done, however, with the following provisions: (1) the disposal of excess, unconsolidated materials thus excavated must be outside of the floodplain and (2) the finished surface of the completed road may be no more than three inches (3") above the pre-construction surface of the floodplain at any point beyond the top of banks.

LOW-WATER CROSSING

STANDARD DRAWING  
Not to Scale

KyTC BMP Plan for Project PCN ## - #####



**Kentucky Transportation Cabinet**

**Highway District 4**

**And**

\_\_\_\_\_ **(2), Construction**

**Kentucky Pollutant Discharge Elimination System**

**Permit KYR10**

**Best Management Practices (BMP) plan**

**Groundwater protection plan**

**For Highway Construction Activities**

**For**

**I-65 Widening from MP 82.2 to MP 91.1**

**Project: PCN ## - #####**

**SYP Item 4-18.0 & 4-19.0**

## KyTC BMP Plan for Project PCN ## - #####

### Project information

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

1. Owner – Kentucky Transportation Cabinet, District \_\_ (1)
2. Resident Engineer: (2)
3. Contractor name: (2)  
Address: (2)  
  
Phone number: (2)  
Contact: (2)  
Contractors agent responsible for compliance with the KPDES permit requirements (3):
4. Project Control Number (2)
5. Route (Address) (1)
6. Latitude/Longitude Lat 37-36-10 N ; Long 85-52-02 W
7. County (project mid-point) Hardin
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

## KyTC BMP Plan for Project PCN ## - #####

### A. Site description:

1. Nature of Construction Activity (from letting project description) **Major widening to the median side**
2. Order of major soil disturbing activities **(2) and (3)**
3. Projected volume of material to be moved **315,299 Cu. Yd.**
4. Estimate of total project area (acres) **184.0**
5. Estimate of area to be disturbed (acres) **184.0**
6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.**(1)**
7. Data describing existing soil condition **No information for this item**
8. Data describing existing discharge water quality (if any) **N/A**
9. Receiving water name **Mammoth Cave Drainage Basin**
10. TMDLs and Pollutants of Concern in Receiving Waters: **No TMDLs were involved on this project.**
11. Site map – Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.
12. Potential sources of pollutants:  
  
The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. **(3)**

## KyTC BMP Plan for Project PCN ## - #####

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

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

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

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

## KyTC BMP Plan for Project PCN ## - #####

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

## KyTC BMP Plan for Project PCN ## - #####

- Permanent Seeding and Protection
  - Placing Sod
  - Planting trees and/or shrubs where they are included in the project
- BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are : (1)

## C. Other Control Measures

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

### 2. Waste Materials

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

### 3. Hazardous Waste

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

### 4. Spill Prevention

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

- **Good Housekeeping:**

## KyTC BMP Plan for Project PCN ## - #####

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

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

### ➤ **Hazardous Products:**

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

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

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

### ➤ **Petroleum Products:**

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

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

## KyTC BMP Plan for Project PCN ## - #####

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

### ➤ **Fertilizers:**

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

### ➤ **Paints:**

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

### ➤ **Concrete Truck Washout:**

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

### ➤ **Spill Control Practices**

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

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

## KyTC BMP Plan for Project PCN ## - #####

- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill clean up will be disposed in accordance with appropriate regulations.

### **D. Other State and Local Plans**

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. (1)

### **E. Maintenance**

1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
- Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
  - Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance. (1)

### **F. Inspections**

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

## KyTC BMP Plan for Project PCN ## - #####

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

## **G. Non – Storm Water discharges**

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

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

## KyTC BMP Plan for Project PCN ## - #####

- Uncontaminated groundwater and rain water (from dewatering during excavation).

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

## H. Groundwater Protection Plan (3)

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

- Contractors statement: (3)

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

\_\_\_\_\_ 2. (e) land treatment or land disposal of a pollutant;

\_\_\_\_\_ 2. (f) Storing, ..., or related handling of hazardous waste, solid waste or special waste, ..., in tanks, drums, or other containers, or in piles, (This does not include wastes managed in a container placed for collection and removal of municipal solid waste for disposal off site);

\_\_\_\_\_ 2. (g) .... Handling of materials in bulk quantities (equal or greater than 55 gallons or 100 pounds net dry weight transported held in an individual container) that, if released to the environment, would be a pollutant;

\_\_\_\_\_ 2. (j) Storing or related handling of road oils, dust suppressants, ....., at a central location;

\_\_\_\_\_ 2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);

\_\_\_\_\_ 2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);

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

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

## KyTC BMP Plan for Project PCN ## - #####

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

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

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

### Contractor and Resident Engineer Plan certification

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

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

Resident Engineer and Contractor Certification:

(2) Resident Engineer signature

Signed \_\_\_\_\_ title \_\_\_\_\_  
Typed or printed name<sup>2</sup> signature

(3) Signed \_\_\_\_\_ title \_\_\_\_\_,  
 Typed or printed name<sup>1</sup> \_\_\_\_\_ signature \_\_\_\_\_

1. Contractors Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

2. KyTC note: to be signed by the Chief District Engineer or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601 Reference the Project Control Number (PCN) and KPDES number when one has been issued.

KyTC BMP Plan for Project PCN ## - #####

Sub-Contractor Certification

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

Subcontractor

Name:  
Address:  
Address:

Phone:

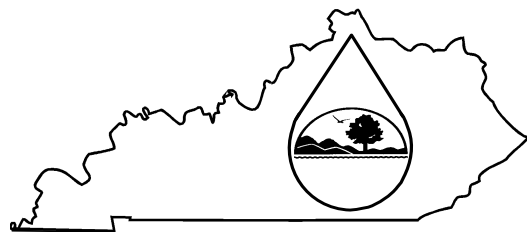
The part of BMP plan this subcontractor is responsible to implement is:

I certify under penalty of law that I understand the terms and conditions of the general Kentucky Pollutant Discharge Elimination System permit that authorizes the storm water discharges, the BMP plan that has been developed to manage the quality of water to be discharged as a result of storm events associated with the construction site activity and management of non-storm water pollutant sources identified as part of this certification.

Signed \_\_\_\_\_title\_\_\_\_\_, \_\_\_\_\_  
Typed or printed name<sup>1</sup>signature

1. Sub Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

# KPDES FORM NOI-SW



## Kentucky Pollutant Discharge Elimination System (KPDES) Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity Under the KPDES General Permit

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by a KPDES permit issued for storm water discharges associated with industrial activity. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit.

**ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM** (See Instructions on back)

### I. Facility Operator Information

|                               |                         |                                  |            |
|-------------------------------|-------------------------|----------------------------------|------------|
| <b>Name:</b>                  | KYTC District 4         | <b>Phone:</b>                    | 2707665066 |
| <b>Address:</b>               | 634 East Dixie Highway  | <b>Status of Owner/Operator:</b> | F          |
| <b>City, State, Zip Code:</b> | Elizabethtown, KY 42701 |                                  |            |

### II. Facility/Site Location Information

|                                                     |                                        |                                                      |            |
|-----------------------------------------------------|----------------------------------------|------------------------------------------------------|------------|
| <b>Name:</b>                                        | PCN ##-####, for SYP 04-18.00 & 4-19.0 |                                                      |            |
| <b>Address:</b>                                     | I-65                                   |                                                      |            |
| <b>City, State, Zip Code:</b>                       | Elizabethtown, KY 42701                |                                                      |            |
| <b>County:</b>                                      | Hardin                                 |                                                      |            |
| <b>Site Latitude:<br/>(degrees/minutes/seconds)</b> | 37-36-10 N                             | <b>Site Longitude:<br/>(degrees/minutes/seconds)</b> | 85-52-02 W |

### III. Site Activity Information

|                                                                                             |                                                                                                       |     |      |     |  |                 |  |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----|------|-----|--|-----------------|--|
| <b>MS4 Operator Name:</b>                                                                   | Roads with drainage systems                                                                           |     |      |     |  |                 |  |
| <b>Receiving Water Body:</b>                                                                | Mammoth Cave Drainage Basin                                                                           |     |      |     |  |                 |  |
| <b>Are there existing quantitative data?</b>                                                | Yes <input type="checkbox"/> If Yes, submit with this form.<br>No <input checked="" type="checkbox"/> |     |      |     |  |                 |  |
| <b>SIC or Designated Activity Code Primary</b>                                              | 1611                                                                                                  | 2nd | 1622 | 3rd |  | 4 <sup>th</sup> |  |
| <b>If this facility is a member of a Group Application, enter Group Application Number:</b> |                                                                                                       |     |      |     |  |                 |  |
| <b>If you have other existing KPDES Permits, enter Permit Numbers:</b>                      |                                                                                                       |     |      |     |  |                 |  |

### IV. Additional Information Required FOR CONSTRUCTION ACTIVITIES ONLY

|                                                                                                                       |                                                                     |                         |  |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------|--|
| <b>Project Start Date:</b>                                                                                            |                                                                     | <b>Completion Date:</b> |  |
| <b>Estimated Area to be disturbed (in acres):</b>                                                                     | 184.0                                                               |                         |  |
| <b>Is the Storm Water Pollution Prevention Plan in Compliance with State and/or Local Sediment and Erosion Plans?</b> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                         |  |

**V. Certification:** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

|                               |                  |              |  |
|-------------------------------|------------------|--------------|--|
| <b>Printed or Typed Name:</b> | Steve Waddle SHE |              |  |
| <b>Signature:</b>             |                  | <b>Date:</b> |  |

**Kentucky Pollutant Discharge Elimination System (KPDES)  
Instructions  
Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity  
To Be Covered Under The KPDES General Permit**

**WHO MUST FILE A NOTICE OF INTENT (NOI) FORM**

Federal law at 40 CFR Part 122 prohibits point source discharges of stormwater associated with industrial activity to a water body of the Commonwealth of Kentucky without a Kentucky Pollutant Discharge Elimination System (KPDES) permit. The operator of an industrial activity that has such a storm water discharge must submit a NOI to obtain coverage under the KPDES Storm Water General Permit. If you have questions about whether you need a permit under the KPDES Storm Water program, or if you need information as to whether a particular program is administered by the state agency, call the **Storm Water Contact, Industrial Section, Kentucky Division of Water at (502) 564-3410**.

**WHERE TO FILE NOI FORM**

NOIs must be sent to the following address:

**Section Supervisor  
Inventory & Data Management Section  
KPDES Branch, Division of Water  
Frankfort Office Park  
14 Reilly Road  
Frankfort, KY 40601**

**COMPLETING THE FORM**

Type or print legibly in the appropriate areas only. If you have any questions regarding the completion of this form call the **Storm Water Contact, Industrial Section, at (502) 564-3410**.

**SECTION I - FACILITY OPERATOR INFORMATION**

Give the legal name of the person, firm, public organization, or any other entity that operates the facility or site described in this application. The name of the operator may or may not be the same as the name of the facility. The responsible party is the legal entity that controls the facility's operation, rather than the plant or site manager. Do not use a colloquial name. Enter the complete address and telephone number of the operator.

Enter the appropriate letter to indicate the legal status of the operator of the facility.

F = Federal                      M = Public (other than federal or state)  
S = State                        P = Private

**SECTION II - FACILITY/SITE LOCATION INFORMATION**

Enter the facility's or site's official or legal name and complete street address, including city, state, and ZIP code.

**SECTION III - SITE ACTIVITY INFORMATION**

If the storm water discharges to a municipal separate storm sewer system (MS4), enter the name of the operator of the MS4 (e.g., municipality name, county name) and the receiving water of the discharge from the MS4. (A MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that is owned or operated by a state, city, town, borough, county, parish, district, association, or other public body which is designed or used for collecting or conveying storm water.)

If the facility discharges storm water directly to receiving water(s), enter the name of the receiving water.

Indicate whether or not the owner or operator of the facility has existing quantitative data that represent the characteristics and concentration of pollutants in storm water discharges. If data is available submit with this form.

List, in descending order of significance, up to four 4-digit standard industrial classification (SIC) codes that best describe the principal products or services provided at the facility or site identified in Section II of this application.

If the facility listed in Section II has participated in Part 1 of an approved storm water group application and a group number has been assigned, enter the group application number in the space provided.

If there are other KPDES permits presently issued for the facility or site listed in Section II, list the permit numbers.

**SECTION IV - ADDITIONAL INFORMATION REQUIRED FOR CONSTRUCTION ACTIVITIES ONLY**

Construction activities must complete Section IV in addition of Sections I through III. Only construction activities need to complete Section IV.

Enter the project start date and the estimated completion date for the entire development plan.

Provide an estimate of the total number of acres of the site on which soil will be disturbed (round to the nearest acre).

Indicate whether the storm water pollution prevention plan for the site is in compliance with approved state and/or local sediment and erosion plans, permits, or storm water management plans.

**SECTION V - CERTIFICATION**

Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

*For a corporation:* by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

*For a partnership or sole proprietorship:* by a general partner or the proprietor; or

*For a municipality, state, Federal, or other public facility:* by either a principal executive officer or ranking elected official.

KENTUCKY TRANSPORTATION CABINET  
COMMUNICATION ALL PROMISES (CAP)

|                           |                 |                  |                      |                                       |
|---------------------------|-----------------|------------------|----------------------|---------------------------------------|
| Item Number<br>04-0018.00 |                 | County<br>HARDIN | Route<br>I 65        | Project Manager<br>kyclandre.johannes |
| CAP #                     | Date of Promise | Requestor        | Location of Promise: | CAP Description                       |
| NO CAPS                   |                 |                  |                      |                                       |

| Item Number<br>04-0019.00 |                 | County<br>HARDIN | Route<br>I 65        | Project Manager<br>kytclandre.johannes |
|---------------------------|-----------------|------------------|----------------------|----------------------------------------|
| CAP #                     | Date of Promise | Requestor        | Location of Promise: | CAP Description                        |
| NO CAPS                   |                 |                  |                      |                                        |

**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 2012 with the 2012 Revision*.

**Supplemental Specifications to the  
Standard Specifications for Road and Bridge Construction, 2012 Edition  
Effective with the July 31, 2015 Letting**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Subsection:</b> | 102.15 Process Agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                               |
| <b>Subsection:</b> | 105.13 Claims Resolution Process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Revision:</b>   | Delete all references to TC 63-34 and TC 63-44 from the subsection as these forms are no longer available through the forms library and are forms generated within the AASHTO SiteManager software.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Subsection:</b> | 108.03 Preconstruction Conference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Revision:</b>   | Replace 8) Staking with the following:<br>8) Staking (designated by a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Subsection:</b> | 109.07.02 Fuel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision:</b>   | 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><del>Crushed Sandstone Base (Cement Treated)</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Subsection:</b> | 110.02 Demobilization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | 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;                                                                                                                                                                                                                                                                                                                                                    |
| <b>Subsection:</b> | 112.03.12 Project Traffic Coordinator (PTC).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                              |
| <b>Subsection:</b> | 112.04.18 Diversions (By-Pass Detours).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Revision:</b>   | 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. |
| <b>Subsection:</b> | 201.03.01 Contractor Staking.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Revision:</b>   | Replace the first paragraph with the following: Perform all necessary surveying under the general supervision of a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.                                                                                                                                                                                                                                                                                                                                                                             |

**Supplemental Specifications to the  
Standard Specifications for Road and Bridge Construction, 2012 Edition  
Effective with the July 31, 2015 Letting**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Subsection:</b> | 201.04.01 Contractor Staking.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Subsection:</b> | 206.04.01 Embankment-in-Place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Replace the fourth paragraph with the following: The Department will not measure <b>suitable</b> excavation included in the original plans that is disposed of for payment and will consider it incidental to Embankment-in-Place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Subsection:</b> | 208.02.01 Cement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Subsection:</b> | 208.03.06 Curing and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Revision:</b>   | 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. |
| <b>Subsection:</b> | 208.03.06 Curing and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Revision:</b>   | Replace paragraph eight with the following:<br>At no expense to the Department, repair any damage to the subgrade caused by freezing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Part:</b>       | A) Seed Mixtures for Permanent Seeding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Revision:</b>   | Revise <b>Seed Mix Type I</b> 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Part:</b>       | A) Seed Mixtures for Permanent Seeding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Number:</b>     | 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Part:</b>       | A) Seed Mixtures for Permanent Seeding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Number:</b>     | 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Part:</b>       | B) Procedures for Permanent Seeding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Revision:</b>   | Delete the first sentence of the section.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Part:</b>       | B) Procedures for Permanent Seeding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Part:</b>       | D) Top Dressing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | Change the title of part to D) Fertilizer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Part:</b>       | D) Fertilizer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision:</b>   | 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. |
| <b>Subsection:</b> | 212.03.03 Permanent Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Part:</b>       | D) Fertilizer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision:</b>   | Delete the second paragraph.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Subsection:</b> | 212.04.04 Agricultural Limestone.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Revision:</b>   | Replace the entire section with the following:<br>The Department will measure the quantity of agricultural limestone in tons.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Subsection:</b> | 212.04.05 Fertilizer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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| <b>Subsection:</b> | 212.05 PAYMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                 |
| <b>Revision:</b>   | Delete the following item code:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                 |
|                    | <u>Code</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>Pay Item</u>        | <u>Pay Unit</u> |
|                    | 05966                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Topdressing Fertilizer | Ton             |
| <b>Subsection:</b> | 212.05 PAYMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                 |
| <b>Revision:</b>   | Add the following pay items:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                 |
|                    | <u>Code</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>Pay Item</u>        | <u>Pay Unit</u> |
|                    | 05963                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Initial Fertilizer     | Ton             |
|                    | 05964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20-10-10 Fertilizer    | Ton             |
|                    | 05992                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Agricultural Limestone | Ton             |
| <b>Subsection:</b> | 213.03.02 Progress Requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                 |
| <b>Revision:</b>   | Replace the last sentence of the third paragraph with the following:      Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of work are not coordinated in an acceptable manner within 7 calendar days after written notification.                                                                                                                                                                                                                                                                                                                              |                        |                 |
| <b>Subsection:</b> | 213.03.05 Temporary Control Measures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                 |
| <b>Part:</b>       | E) Temporary Seeding and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                 |
| <b>Revision:</b>   | Delete the second sentence of the first paragraph.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                 |
| <b>Subsection:</b> | 304.02.01 Physical Properties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                 |
| <b>Table:</b>      | Required Geogrid Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                 |
| <b>Revision:</b>   | Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                 |
| <b>Subsection:</b> | 402.03.02 Contractor Quality Control and Department Acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                 |
| <b>Part:</b>       | B) Sampling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                 |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                      |                        |                 |
| <b>Subsection:</b> | 402.03.02 Contractor Quality Control and Department Acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                 |
| <b>Part:</b>       | D) Testing Responsibilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                 |
| <b>Number:</b>     | 3) VMA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                 |
| <b>Revision:</b>   | Add the following paragraph below Number 3) VMA:<br>Retain the AV/VMA specimens and one additional corresponding G <sub>mm</sub> sample for 5 working days for mixture verification testing by the Department. For Specialty Mixtures, retain a mixture sample for 5 working days for mixture verification testing by the Department. When the Department's test results do not verify that the Contractor's quality control test results are within the acceptable tolerances according to Subsection 402.03.03, retain the samples and specimens from the affected subplot(s) for the duration of the project. |                        |                 |
| <b>Subsection:</b> | 402.03.02 Contractor Quality Control and Department Acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                 |
| <b>Part:</b>       | D) Testing Responsibilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                 |
| <b>Number:</b>     | 4) Density.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                 |
| <b>Revision:</b>   | Replace the second sentence of the Option A paragraph with the following:<br>Perform coring by the end of the following work day.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                 |

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| <b>Subsection:</b> | 402.03.02 Contractor Quality Control and Department Acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Part:</b>       | D) Testing Responsibilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Number:</b>     | 5) Gradation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Delete the second paragraph.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Subsection:</b> | 402.03.02 Contractor Quality Control and Department Acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Part:</b>       | H) Unsatisfactory Work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Number:</b>     | 1) Based on Lab Data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Subsection:</b> | 402.03.03 Verification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | Replace the first paragraph with the following:<br><b>402.03.03 Mixture Verification.</b> 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 subplot. The Department may perform the mixture verification test on the Contractor's equipment or on the Department's equipment. |
| <b>Subsection:</b> | 402.03.03 Verification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Part:</b>       | A) Evaluation of Subplot(s) Verified by Department.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Revision:</b>   | Replace the third sentence of the second paragraph with the following:<br>When the paired <i>t</i> -test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Subsection:</b> | 402.03.03 Verification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Part:</b>       | B) Evaluation of Subplots Not Verified by Department.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| <b>Subsection:</b> | 402.03.03 Verification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Part:</b>       | B) Evaluation of Sublots Not Verified by Department.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | Replace the third sentence of the second paragraph with the following:<br>When the <i>F</i> -test or <i>t</i> -test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Subsection:</b> | 402.03.03 Verification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Part:</b>       | C) Test Data Patterns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Subsection:</b> | 402.03 CONSTRUCTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | Add the following subsection: <b>402.03.04 Testing Equipment and Technician Verification.</b><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 $\pm 2.0$ percent, the Department will investigate and resolve the discrepancy according to Subsection 402.03.05. |
| <b>Subsection:</b> | 402.03.04 Dispute Resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Revision:</b>   | Change the subsection number to 402.03.05.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Subsection:</b> | 402.05 PAYMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Part:</b>       | Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Table:</b>      | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Revision:</b>   | Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to $\pm 0.6$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Subsection:</b> | 403.02.10 Material Transfer Vehicle (MTV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Replace the first sentence with the following:<br>In addition to the equipment specified above, provide a MTV with the following minimum characteristics:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Subsection:</b> | 412.02.09 Material Transfer Vehicle (MTV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Replace the paragraph with the following:<br>Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| <b>Subsection:</b> | 412.03.07 Placement and Compaction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | 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.                                                                                                                                 |
| <b>Subsection:</b> | 412.04 MEASUREMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                          |
| <b>Subsection:</b> | 501.03.05 Weather Limitations and Protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | Replace the reference to Subsection 501.03.19 in Paragraph 5, with Subsection 501.03.20.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Subsection:</b> | 501.03.19 Surface Tolerances and Testing Surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Part:</b>       | B) Ride Quality.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Revision:</b>   | 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.                                                                                                                                                                                    |
| <b>Subsection:</b> | 603.03.06 Cofferdams.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Subsection:</b> | 605.03.04 Tack Welding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Revision:</b>   | Insert the subsection and the following:<br>605.03.04 Tack Welding. The Department does not allow tack welding.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Subsection:</b> | 606.03.17 Special Requirements for Latex Concrete Overlays.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Part:</b>       | A) Existing Bridges and New Structures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Number:</b>     | 1) Prewetting and Grout-Bond Coat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge decks prepared by hydrodemolition.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Subsection:</b> | 609.03 Construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Revision:</b>   | 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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| <b>Subsection:</b> | 611.03.02 Precast Unit Construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | Replace the first sentence of the subsection with the following:<br>Construct units according to ASTM C1577, <b>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)</b> , and Section 605 with the following exceptions and additions:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Subsection:</b> | 613.03.01 Design.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Number:</b>     | 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Revision:</b>   | Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD Bridge Design Specifications"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Subsection:</b> | 615.06.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Add the following sentence to the end of the subsection.<br>The ends of units shall be normal to walls and centerline except exposed edges shall be beveled $\frac{3}{4}$ inch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Subsection:</b> | 615.06.03 Placement of Reinforcement in Precast 3-Sided Units.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Revision:</b>   | Replace the reference of 6.6 in the section to 615.06.06.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Subsection:</b> | 615.06.04 Placement of Reinforcement for Precast Endwalls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | Replace the reference of 6.7 in the section to 615.06.07.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Subsection:</b> | 615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision:</b>   | Replace the subsection with the following:<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. |
| <b>Subsection:</b> | 615.06.07 Laps, Welds, and Spacing for Precast Endwalls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision:</b>   | 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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|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Subsection:</b> | 615.08.01 Type of Test Specimen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Revision:</b>   | 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 <sup>3</sup> (or fraction thereof). In addition to the slump, air content, unit weight, and temperature tests, a minimum of one set of cylinders shall be required each time plastic property testing is performed. |
| <b>Subsection:</b> | 615.08.02 Compression Testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision:</b>   | Delete the second sentence.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Subsection:</b> | 615.08.04 Acceptability of Core Tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Revision:</b>   | Delete the entire subsection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Subsection:</b> | 615.12 Inspection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Revision:</b>   | Add the following sentences to the end of the subsection: Units will arrive at jobsite with the "Kentucky Oval" stamped on the unit which is an indication of acceptable inspection at the production facility. Units shall be inspected upon arrival for any evidence of damage resulting from transport to the jobsite.                                                                                                                                                                                                                                                      |
| <b>Subsection:</b> | 701.04.16 Deduction for Pipe Deflection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Subsection:</b> | 716.02.02 Paint.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Revision:</b>   | Replace sentence with the following: Conform to Section 821.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Subsection:</b> | 716.03 CONSTRUCTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | 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,                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Subsection:</b> | 716.03.02 Lighting Standard Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision:</b>   | Replace the second sentence with the following:<br>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.                                                                                                                                                                                                                                                                                                                                     |
| <b>Subsection:</b> | 716.03.02 Lighting Standard Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Part:</b>       | A) Conventional Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Revision:</b>   | Replace the third sentence with the following: Orient the transformer base so the door is positioned on the side away from on-coming traffic.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Subsection:</b> | 716.03.02 Lighting Standard Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Part:</b>       | A) Conventional Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Number:</b>     | 1) Breakaway Installation and Requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                         |
| <b>Subsection:</b> | 716.03.02 Lighting Standard Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Part:</b>       | B) High Mast Installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision:</b>   | Replace the first sentence with the following: Install each high mast pole as noted on plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| <b>Subsection:</b>       | 716.03.02 Lighting Standard Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
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| <b>Part:</b>             | B) High Mast Installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| <b>Number:</b>           | 2) Concrete Base Installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| <b>Revision:</b>         | Modification of Chart and succeeding paragraphs within this section:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
|                          | <table><tr><th colspan="8">Drilled Shaft Depth Data</th></tr><tr><th colspan="2">Level Ground</th><th colspan="2">3:1 Ground Slope</th><th colspan="2">2:1 Ground Slope</th><th colspan="2">1.5:1 Ground Slope <sup>(2)</sup></th></tr><tr><th>Soil</th><th>Rock</th><th>Soil</th><th>Rock</th><th>Soil</th><th>Rock</th><th>Soil</th><th>Rock</th></tr><tr><td>17 ft</td><td>7 ft</td><td>19 ft</td><td>7 ft</td><td>20 ft</td><td>7 ft</td><td>(1)</td><td>7 ft</td></tr><tr><th colspan="4">Steel Requirements</th><th colspan="4"></th></tr><tr><th colspan="2">Vertical Bars</th><th colspan="2">Ties or Spiral</th><th colspan="4"></th></tr><tr><th>Size</th><th>Total</th><th>Size</th><th>Spacing or Pitch</th><th colspan="4"></th></tr><tr><td>#10</td><td>16</td><td>#4</td><td>12 inch</td><td colspan="4"></td></tr></table> <p>(1): Shaft length is 22' for cohesive soil only. For cohesionless soil, contact geotechnical branch for design.</p> <p>(2): Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic.</p> <p>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 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 accordingly.</p> <p>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</p> <p>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 are encountered.</p> <p>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.</p> <p>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.</p> | Drilled Shaft Depth Data |                  |                  |      |                                   |      |  |  | Level Ground |  | 3:1 Ground Slope |  | 2:1 Ground Slope |  | 1.5:1 Ground Slope <sup>(2)</sup> |  | Soil | Rock | Soil | Rock | Soil | Rock | Soil | Rock | 17 ft | 7 ft | 19 ft | 7 ft | 20 ft | 7 ft | (1) | 7 ft | Steel Requirements |  |  |  |  |  |  |  | Vertical Bars |  | Ties or Spiral |  |  |  |  |  | Size | Total | Size | Spacing or Pitch |  |  |  |  | #10 | 16 | #4 | 12 inch |  |  |  |  |
| Drilled Shaft Depth Data |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| Level Ground             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3:1 Ground Slope         |                  | 2:1 Ground Slope |      | 1.5:1 Ground Slope <sup>(2)</sup> |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| Soil                     | Rock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Soil                     | Rock             | Soil             | Rock | Soil                              | Rock |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| 17 ft                    | 7 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19 ft                    | 7 ft             | 20 ft            | 7 ft | (1)                               | 7 ft |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| Steel Requirements       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| Vertical Bars            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ties or Spiral           |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| Size                     | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Size                     | Spacing or Pitch |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| #10                      | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | #4                       | 12 inch          |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| <b>Subsection:</b>       | 716.03.03 Trenching.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| <b>Part:</b>             | A) Trenching of Conduit for Highmast Ducted Cables.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |
| <b>Revision:</b>         | Add the following after the first sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                  |                  |      |                                   |      |  |  |              |  |                  |  |                  |  |                                   |  |      |      |      |      |      |      |      |      |       |      |       |      |       |      |     |      |                    |  |  |  |  |  |  |  |               |  |                |  |  |  |  |  |      |       |      |                  |  |  |  |  |     |    |    |         |  |  |  |  |

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| <b>Subsection:</b> | 716.03.03 Trenching.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Part:</b>       | B) Trenching of Conduit for Non-Highmast Cables.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Revision:</b>   | Add the following after the second sentence: If depths greater than 24 inches are necessary for either situation listed previously, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Subsection:</b> | 716.03.10 Junction Boxes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Replace subsection title with the following: Electrical Junction Box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Subsection:</b> | 716.04.07 Pole with Secondary Control Equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Revision:</b>   | 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 mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, or electrical inspection fees, 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, and ground wires and will consider them incidental to this item of work. |
| <b>Subsection:</b> | 716.04.08 Lighting Control Equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Revision:</b>   | 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 constructing the concrete base, excavation, backfilling, restoration, any necessary anchors, or electrical inspection fees, 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, and ground wires and will consider them incidental to this item of work.      |
| <b>Subsection:</b> | 716.04.09 Luminaire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | Replace the first sentence with the following:<br>The Department will measure the quantity as each individual unit furnished and installed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Subsection:</b> | 716.04.10 Fused Connector Kits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Revision:</b>   | Replace the first sentence with the following:<br>The Department will measure the quantity as each individual unit furnished and installed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Subsection:</b> | 716.04.13 Junction Box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Revision:</b>   | Replace the subsection title with the following: Electrical Junction Box Type Various.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Subsection:</b> | 716.04.13 Junction Box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Part:</b>       | A) Junction Electrical.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Revision:</b>   | Rename A) Junction Electrical to the following: A) Electrical Junction Box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Subsection:</b> | 716.04.14 Trenching and Backfilling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | Replace the second sentence with the following:<br>The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <b>Subsection:</b> | 716.04.18 Remove Lighting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the paragraph with the following:<br>The Department will measure the quantity as a lump sum for the removal of lighting equipment. The Department will not measure the disposal of all equipment and materials off the project by the contractor. The Department also will not measure the transportation of the materials and will consider them incidental to this item of work.                                                                                                                                                         |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 716.04.20 Bore and Jack Conduit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | 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. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.                                                                                                                                                                                                                                            |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 716.05 PAYMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace items 04810-04811, 20391NS835 and, 20392NS835 under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following:<br><table><tr><td><u>Code</u></td><td><u>Pay Item</u></td><td><u>Pay Unit</u></td></tr><tr><td>04810</td><td>Electrical Junction Box</td><td>Each</td></tr><tr><td>04811</td><td>Electrical Junction Box Type B</td><td>Each</td></tr><tr><td>20391NS835</td><td>Electrical Junction Box Type A</td><td>Each</td></tr><tr><td>20392NS835</td><td>Electrical Junction Box Type C</td><td>Each</td></tr></table> | <u>Code</u>     | <u>Pay Item</u> | <u>Pay Unit</u> | 04810 | Electrical Junction Box | Each | 04811 | Electrical Junction Box Type B | Each | 20391NS835 | Electrical Junction Box Type A | Each | 20392NS835 | Electrical Junction Box Type C | Each |
| <u>Code</u>        | <u>Pay Item</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>Pay Unit</u> |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 04810              | Electrical Junction Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 04811              | Electrical Junction Box Type B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 20391NS835         | Electrical Junction Box Type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 20392NS835         | Electrical Junction Box Type C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.02.02 Paint.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace sentence with the following: Conform to Section 821.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.03 CONSTRUCTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | 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,                                                                                                                                                                                                                                                                                                                                                        |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.03.02 Poles and Bases Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the first sentence with the following:<br>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.                                                                                                                                                                                                                                                                                                          |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.03.02 Poles and Bases Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Part:</b>       | A) Steel Strain and Mastarm Poles Installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the second paragraph with the following: For concrete base installation, see Section 716.03.02, B), 2), Paragraphs 2-7. 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:                                                                                                                                                                                                                                                            |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.03.02 Poles and Bases Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Part:</b>       | B) Pedestal or Pedestal Post Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                           |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |

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| <b>Subsection:</b> | 723.03.03 Trenching.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Part:</b>       | A) Under Roadway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision:</b>   | Add the following after the second sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain ether required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Subsection:</b> | 723.03.11 Wiring Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Subsection:</b> | 723.03.12 Loop Installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Subsection:</b> | 723.04.02 Junction Box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | Replace subsection title with the following: Electrical Junction Box Type Various.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Subsection:</b> | 723.04.03 Trenching and Backfilling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Subsection:</b> | 723.04.10 Signal Pedestal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, specified conduits, fittings, ground rod, ground wire, backfilling, restoring disturbed areas, or other necessary hardware and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Subsection:</b> | 723.04.15 Loop Saw Slot and Fill.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure sawing, cleaning and filling induction loop saw slot, loop sealant, backer rod, and grout and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Subsection:</b> | 723.04.16 Pedestrian Detector.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Revision:</b>   | Replace the paragraph 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 (with arrow) sign, furnishing and installing mounting hardware for sign and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Subsection:</b> | 723.04.18 Signal Controller- Type 170.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees 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; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work. |

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| <b>Subsection:</b> | 723.04.20 Install Signal Controller - Type 170.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Revision:</b>   | Replace the paragraph with the following: The Department will measure the quantity as each individual unit installed. The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, and excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees 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; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work. |
| <b>Subsection:</b> | 723.04.22 Remove Signal Equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Revision:</b>   | Replace the paragraph with the following: The Department will measure the quantity as a lump sum removal of signal equipment. The Department will not measure the return of control equipment and signal heads to the Department of Highways as directed by the District Traffic Engineer. The Department also will not measure the transportation of materials of the disposal of all other equipment and materials off the project by the contractor and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                             |
| <b>Subsection:</b> | 723.04.28 Install Pedestrian Detector Audible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure installing sign R10-3e (with arrow) and will consider it incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Subsection:</b> | 723.04.29 Audible Pedestrian Detector.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure furnishing and installing the sign R10-3e (with arrow) and will consider it incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Subsection:</b> | 723.04.30 Bore and Jack Conduit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | 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. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Subsection:</b> | 723.04.31 Install Pedestrian Detector.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Revision:</b>   | 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 sign R 10-3e (with arrow) and will consider it incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Subsection:</b> | 723.04.32 Install Mast Arm Pole.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure arms, signal mounting brackets, anchor bolts, or any other necessary hardware and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Subsection:</b> | 723.04.33 Pedestal Post.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, conduit, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| <b>Subsection:</b> | 723.04.36 Traffic Signal Pole Base.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure excavation, reinforcing steel, anchor bolts, specified conduits, ground rods, ground wires, backfilling, or restoration and will consider them incidental to this item of work.                                                                                                                                                                                                                                                                                 |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.04.37 Install Signal Pedestal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.                                                                                                                                                                                                                                 |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.04.38 Install Pedestal Post.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.                                                                                                                                                                                                                                 |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 723.05 PAYMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace items 04810-04811, 20391NS835 and, 20392NS835 under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following: <table><tr><td><u>Code</u></td><td><u>Pay Item</u></td><td><u>Pay Unit</u></td></tr><tr><td>04810</td><td>Electrical Junction Box</td><td>Each</td></tr><tr><td>04811</td><td>Electrical Junction Box Type B</td><td>Each</td></tr><tr><td>20391NS835</td><td>Electrical Junction Box Type A</td><td>Each</td></tr><tr><td>20392NS835</td><td>Electrical Junction Box Type C</td><td>Each</td></tr></table> | <u>Code</u>     | <u>Pay Item</u> | <u>Pay Unit</u> | 04810 | Electrical Junction Box | Each | 04811 | Electrical Junction Box Type B | Each | 20391NS835 | Electrical Junction Box Type A | Each | 20392NS835 | Electrical Junction Box Type C | Each |
| <u>Code</u>        | <u>Pay Item</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>Pay Unit</u> |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 04810              | Electrical Junction Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 04811              | Electrical Junction Box Type B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 20391NS835         | Electrical Junction Box Type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| 20392NS835         | Electrical Junction Box Type C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each            |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 804.01.02 Crushed Sand.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Delete last sentence of the section.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 804.01.06 Slag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Add subsection and following sentence.<br>Provide blast furnace slag sand where permitted. The Department will allow steel slag sand only in asphalt surface applications.                                                                                                                                                                                                                                                                                                                                                                      |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 804.04 Asphalt Mixtures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the subsection with the following:<br>Provide natural, crushed, conglomerate, or blast furnace slag sand, with the addition of filler as necessary, to meet gradation requirements. The Department will allow any combination of natural, crushed, conglomerate or blast furnace slag sand when the combination is achieved using cold feeds at the plant. The Engineer may allow other fine aggregates.                                                                                                                                |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Subsection:</b> | 806.03.01 General Requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |
| <b>Revision:</b>   | Replace the second sentence of the paragraph with the following:<br>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 <sub>NR</sub> (nonrecoverable creep compliance) between 0.1 and 0.5, when tested according to AASHTO TP 70.                                                                                                                                                                             |                 |                 |                 |       |                         |      |       |                                |      |            |                                |      |            |                                |      |

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| <b>Subsection:</b>  | 806.03.01 General Requirements.                                                                                                                                                                                                                                               |                      |                 |                |                |                |                              |
| <b>Table:</b>       | PG Binder Requirements and Price Adjustment Schedule                                                                                                                                                                                                                          |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Replace the Elastic Recovery, % <sup>(3)</sup> (AASHTO T301) and all corresponding values in the table with the following:                                                                                                                                                    |                      |                 |                |                |                |                              |
|                     | <u>Test</u>                                                                                                                                                                                                                                                                   | <u>Specification</u> | <u>100% Pay</u> | <u>90% Pay</u> | <u>80% Pay</u> | <u>70% Pay</u> | <u>50%Pay</u> <sup>(1)</sup> |
|                     | MSCR recovery, % <sup>(3)</sup><br>(AASHTO TP 70)                                                                                                                                                                                                                             | 60 Min.              | ≥58             | 56             | 55             | 54             | <53                          |
| <b>Subsection:</b>  | 806.03.01 General Requirements.                                                                                                                                                                                                                                               |                      |                 |                |                |                |                              |
| <b>Table:</b>       | PG Binder Requirements and Price Adjustment Schedule                                                                                                                                                                                                                          |                      |                 |                |                |                |                              |
| <b>Superscript:</b> | (3)                                                                                                                                                                                                                                                                           |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Replace <sup>(3)</sup> with the following:<br>Perform testing at 64°C.                                                                                                                                                                                                        |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 813.04 Gray Iron Castings.                                                                                                                                                                                                                                                    |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Replace the reference to "AASHTO M105" with "ASTM A48".                                                                                                                                                                                                                       |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 813.09.02 High Strength Steel Bolts, Nuts, and Washers.                                                                                                                                                                                                                       |                      |                 |                |                |                |                              |
| <b>Number:</b>      | A) Bolts.                                                                                                                                                                                                                                                                     |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Delete first paragraph and "Hardness Number" Table. Replace with the following:<br>A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as applicable.                                                                                                      |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 814.04.02 Timber Guardrail Posts.                                                                                                                                                                                                                                             |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1".                                                                                                                                                                                |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 814.04.02 Timber Guardrail Posts.                                                                                                                                                                                                                                             |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | 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.                                                                                                                     |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 814.04.02 Timber Guardrail Posts.                                                                                                                                                                                                                                             |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B, Paragraph 4.1".                                                                                                                                                                                |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 814.04.02 Timber Guardrail Posts.                                                                                                                                                                                                                                             |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Delete the second sentence of the fourth paragraph.                                                                                                                                                                                                                           |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 814.05.02 Composite Plastic.                                                                                                                                                                                                                                                  |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | 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. |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 816.07.02 Wood Posts and Braces.                                                                                                                                                                                                                                              |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph 4.1".                                                                                                                                                                                 |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 816.07.02 Wood Posts and Braces.                                                                                                                                                                                                                                              |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | Delete the second sentence of the first paragraph.                                                                                                                                                                                                                            |                      |                 |                |                |                |                              |
| <b>Subsection:</b>  | 818.07 Preservative Treatment.                                                                                                                                                                                                                                                |                      |                 |                |                |                |                              |
| <b>Revision:</b>    | First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".                                                                                                                                                                                              |                      |                 |                |                |                |                              |

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Subsection:</b> | 834.14 Lighting Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Revision:</b>   | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Subsection</b>  | 834.14.03 High Mast Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | Remove the second and fourth sentence from the first paragraph.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Subsection</b>  | 834.14.03 High Mast Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | Replace the third paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Subsection:</b> | 834.14.03 High Mast Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Revision:</b>   | 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. 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). |
| <b>Subsection:</b> | 834.16 ANCHOR BOLTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| <b>Subsection:</b> | 834.17.01 Conventional.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Subsection:</b> | 834.21.01 Waterproof Enclosures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Subsection:</b> | 835.07 Traffic Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Subsection:</b> | 835.07 Traffic Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | *Replace the first sentence of the fourth paragraph with the following: Ensure transverse plates have a thickness $\geq 2$ 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Subsection:</b> | 835.07 Traffic Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Subsection:</b> | 835.07 Traffic Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Revision:</b>   | 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. |

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| <b>Subsection:</b> | 835.07 Traffic Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |                    |
| <b>Revision:</b>   | *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. |                                    |                    |
| <b>Subsection:</b> | 835.07.01 Steel Strain Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                   |                                    |                    |
| <b>Subsection:</b> | 835.07.01 Steel Strain Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                         |                                    |                    |
| <b>Subsection:</b> | 835.07.02 Mast Arm Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                                                                      |                                    |                    |
| <b>Subsection:</b> | 835.07.02 Mast Arm Poles.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                    |
| <b>Revision:</b>   | 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.                                                                                                                                                                                                                                         |                                    |                    |
| <b>Subsection:</b> | 835.07.03 Anchor Bolts.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    |                    |
| <b>Revision:</b>   | 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).                                                                                                                                                                 |                                    |                    |
| <b>Subsection:</b> | 835.16.05 Optical Units.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                    |
| <b>Revision:</b>   | Replace the 3rd paragraph with the following:<br>The list of certified products can be found on the following website: <a href="http://www.intertek.com">http://www.intertek.com</a> .                                                                                                                                                                                                                                                                                     |                                    |                    |
| <b>Subsection:</b> | 835.19.01 Pedestrian Detector Body.                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                    |
| <b>Revision:</b>   | Replace the first sentence with the following: Provide a four holed pole mounted aluminum rectangular housing that is compatible with the pedestrian detector.                                                                                                                                                                                                                                                                                                             |                                    |                    |
| <b>Subsection:</b> | 843.01.01 Geotextile Fabric.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                    |
| <b>Table:</b>      | TYPE I FABRIC GEOTEXTILES FOR SLOPE PROTECTION AND CHANNEL LINING                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                    |
| <b>Revision:</b>   | Add the following to the chart:                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                    |
|                    | <u>Property</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>Minimum Value<sup>(1)</sup></u> | <u>Test Method</u> |
|                    | CBR Puncture (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 494                                | ASTM D6241         |
|                    | Permittivity (1/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.7                                | ASTM D4491         |

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| <b>Subsection:</b> | 843.01.01 Geotextile Fabric.                                                         |                                    |                    |
| <b>Table:</b>      | TYPE II FABRIC GEOTEXTILES FOR UNDERDRAINS                                           |                                    |                    |
| <b>Revision:</b>   | Add the following to the chart:                                                      |                                    |                    |
|                    | <u>Property</u>                                                                      | <u>Minimum Value<sup>(1)</sup></u> | <u>Test Method</u> |
|                    | CBR Puncture (lbs)                                                                   | 210                                | ASTM D6241         |
|                    | Permittivity (1/s)                                                                   | 0.5                                | ASTM D4491         |
| <b>Subsection:</b> | 843.01.01 Geotextile Fabric.                                                         |                                    |                    |
| <b>Table:</b>      | TYPE III FABRIC GEOTEXTILES FOR SUBGRADE OR EMBANKMENT STABILIZATION                 |                                    |                    |
| <b>Revision:</b>   | Add the following to the chart:                                                      |                                    |                    |
|                    | <u>Property</u>                                                                      | <u>Minimum Value<sup>(1)</sup></u> | <u>Test Method</u> |
|                    | CBR Puncture (lbs)                                                                   | 370                                | ASTM D6241         |
|                    | Permittivity (1/s)                                                                   | 0.05                               | ASTM D4491         |
| <b>Subsection:</b> | 843.01.01 Geotextile Fabric.                                                         |                                    |                    |
| <b>Table:</b>      | TYPE IV FABRIC GEOTEXTILES FOR EMBANKMENT DRAINAGE BLANKETS AND PAVEMENT EDGE DRAINS |                                    |                    |
| <b>Revision:</b>   | Add the following to the chart:                                                      |                                    |                    |
|                    | <u>Property</u>                                                                      | <u>Minimum Value<sup>(1)</sup></u> | <u>Test Method</u> |
|                    | CBR Puncture (lbs)                                                                   | 309                                | ASTM D6241         |
|                    | Permittivity (1/s)                                                                   | 0.5                                | ASTM D4491         |
| <b>Subsection:</b> | 843.01.01 Geotextile Fabric.                                                         |                                    |                    |
| <b>Table:</b>      | TYPE V HIGH STRENGTH GEOTEXTILE FABRIC                                               |                                    |                    |
| <b>Revision:</b>   | Make the following changes to the chart:                                             |                                    |                    |
|                    | <u>Property</u>                                                                      | <u>Minimum Value<sup>(1)</sup></u> | <u>Test Method</u> |
|                    | CBR Puncture (lbs)                                                                   | 618                                | ASTM D6241         |
|                    | Apparent Opening Size                                                                | U.S. #40 <sup>(3)</sup>            | ASTM D4751         |
|                    | <sup>(3)</sup> Maximum average roll value.                                           |                                    |                    |

## **SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS**

This Special Note will apply when indicated on the plans or in the proposal.

**1.0 DESCRIPTION.** Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

## **2.0 MATERIALS.**

**2.1 General.** Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

## **2.2 Sign and Controls.** All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
  - a) Keyboard or keypad.
  - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
  - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
  - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

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

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

\*Insert numerals as directed by the Engineer.

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

### 2.3 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

**3.0 CONSTRUCTION.** Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

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

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

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

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

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

**5.0 PAYMENT.** The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

| <u>Code</u> | <u>Pay Item</u>                  | <u>Pay Unit</u> |
|-------------|----------------------------------|-----------------|
| 02671       | Portable Changeable Message Sign | Each            |

Effective June 15, 2012

## **SPECIAL NOTE FOR ROCK BLASTING**

This Special Note will apply when indicated on the plans or in the proposal. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** This work consists of fracturing rock and constructing stable final rock cut faces using presplit blasting and production blasting techniques.

**2.0 MATERIALS.** Deliver, store, and use explosives according to the manufacturer's recommendations and applicable laws. Do not use explosives outside their recommended use date. Verify date of manufacture and provide copies of the technical data sheets (TDS) and material safety data sheets (MSDS) to the Engineer. Explosives and initiating devices include, but are not necessarily limited to, dynamite and other high explosives, slurries, water gels, emulsions, blasting agents, initiating explosives, detonators, blasting caps, and detonating cord.

**3.0 CONSTRUCTION.** Furnish copies or other proof of all-applicable permits and licenses. Comply with Federal, State, and local regulations on the purchase, transportation, storage, and use of explosive material. Regulations include but are not limited to the following:

- 1) KRS 351.310 through 351.9901.
- 2) 805 KAR 4:005 through 4:165
- 3) Applicable rules and regulations issued by the Office of Mine Safety and Licensing.
- 4) Safety and health. OSHA, 29 CFR Part 1926, Subpart U.
- 5) Storage, security, and accountability. Bureau of Alcohol, Tobacco, and Firearms (BATF), 27 CFR Part 181.
- 6) Shipment. DOT, 49 CFR Parts 171-179, 390-397.

**3.1 Blaster-in-Charge.** Designate in writing a blaster-in-charge and any proposed alternates for the position. Submit documentation showing the blaster-in-charge, and alternates, have a valid Kentucky blaster's license. Ensure the blaster-in-charge or approved alternate is present at all times during blasting operations.

**3.2 Blasting Plans.** Blasting plans and reports are for quality control and record keeping purposes. Blasting reports are to be signed by the blaster-in-charge or the alternate blaster-in-charge. The general review and acceptance of blasting plans does not relieve the Contractor of the responsibility whatsoever for conformance to regulations or for obtaining the required results. All blasting plans shall be submitted to the Engineer. The Engineer will be responsible for submitting the plan to the Central Office Division of Construction and the Division of Mine Reclamation and Enforcement, Explosives and Blasting Branch at the following address: 2 Hudson Hollow, Frankfort, Kentucky, 40601.

**A) General Blasting Plan.** Submit a general blasting plan for acceptance at least 15 working days before drilling operations begin. Include, as a minimum, the following safety and procedural details:

- 1) Working procedures and safety precautions for storing, transporting, handling, detonating explosives. Include direction on pre and post blast audible procedures, methods of addressing misfires, and methods of addressing inclement weather, including lightning.
- 2) Proposed product selection for both dry and wet holes. Furnish Manufacturer's TDS and MSDS for all explosives, primers, initiators, and other blasting devices.
- 3) Proposed initiation and delay methods.
- 4) Proposed format for providing all the required information for the site specific blasting shot reports.

**B) Preblast Meeting.** Prior to drilling operations, conduct a preblast meeting to discuss safety and traffic control issues and any site specific conditions that will need to be addressed. Ensure, at a minimum, that the Engineer or lead inspector, Superintendent, blaster-in-charge, and all personnel involved in the blasting operation are present. Site specific conditions include blast techniques; communication procedures; contingency plans and equipment for dealing with errant blast material. The conditions of the General Blasting plan will be discussed at this meeting. Record all revisions and additions made to the blasting plan and obtain written concurrence by the blaster-in-charge. Provide a copy of the signed blast plan to the Engineer along with the sign in sheet from the preblast meeting.

**3.3 Preblast Condition Survey and Vibration Monitoring and Control.** Before blasting, arrange for a preblast condition survey of nearby buildings, structures, or utilities, within 500 feet of the blast or that could be at risk from blasting damage. Provide the Engineer a listing of all properties surveyed and any owners denying entry or failing to respond. Notify the Engineer and occupants of buildings at risk at least 24 hours before blasting.

Limit ground vibrations and airblast to levels that will not exceed limits of 805 KAR 4:005 through 4:165. More restrictive levels may be specified in the Contract.

Size all blast designs based on vibration, distance to nearest building or utility, blast site geometry, atmospheric conditions and other factors. Ground vibrations are to be controlled according to the blasting standards and scaled distance formulas in 805 KAR 4:020 or by the use of seismographs as allowed in 805 KAR 4:030. The Department will require seismographs at the nearest allowable location to the protected site when blasting occurs within 500 feet of buildings, structures, or utilities.

**3.4 Blasting.** Drill and blast at the designated slope lines according to the blasting plan. Perform presplitting to obtain smooth faces in the rock and shale formations. Perform the presplitting before blasting and excavating the interior portion of the specified cross section at any location. The Department may allow blasting for fall benches and haul roads prior to presplitting when blasting is a sufficient distance from the final slope and results are satisfactory to the Engineer. Use the types of explosives and blasting accessories necessary to obtain the required results.

Free blast holes of obstructions for their entire depth. Place charges without caving the blast hole walls. Stem the upper portion of all blast holes with dry sand or other granular material passing the 3/8-inch sieve. Dry drill cuttings are acceptable for stemming when blasts are more than 800 feet from the nearest dwelling.

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Stop traffic during blasting operations when blasting near any road and ensure traffic does not pass through the Danger Zone. The blaster-in-charge will define the Danger Zone prior to each blast. Ensure traffic is stopped outside the Danger Zone, and in no case within 800 feet of the blast location.

Following a blast, stop work in the entire blast area, and check for misfires before allowing worker to return to excavate the rock.

Remove or stabilize all cut face rock that is loose, hanging, or potentially dangerous. Leave minor irregularities or surface variations in place if they do not create a hazard. Drill the next lift only after the cleanup work and stabilization work is complete.

When blasting operations cause fracturing of the final rock face, repair or stabilize it in an approved manner at no cost to the Department.

Halt blasting operations in areas where any of the following occur:

- 1) Slopes are unstable;
- 2) Slopes exceed tolerances or overhangs are created;
- 3) Backslope damage occurs;
- 4) Safety of the public is jeopardized;
- 5) Property or natural features are endangered;
- 6) Fly rock is generated; or
- 7) Excessive ground or airblast vibrations occur in an area where damage to buildings, structures, or utilities is possible.
- 8) The Engineer determines that materials have become unsuitable for blasting

Blasting operations may continue at a reasonable distance from the problem area or in areas where the problems do not exist. Make the necessary modifications to the blasting operations and perform a test blast to demonstrate resolution of the problem.

**A) Drill Logs.** Maintain a layout drawing designating hole numbers with corresponding drill logs and provide a copy of this information to the blaster prior to loading the hole. Ensure the individual hole logs completed by the driller(s) show their name; date drilled; total depth drilled; and depths and descriptions of significant conditions encountered during drilling that may affect loading such as water, voids, changes in rock type.

**B) Presplitting.** Conduct presplitting operations in conformance with Subsection 204.03.04 of the Standard Specifications for Road and Bridge Construction.

**3.5 Shot Report.** Maintain all shot reports on site for review by the Department. Within one day after a blast, complete a shot report according to the record keeping requirements of 805 KAR 4:050. Include all results from airblast and seismograph monitoring.

**3.6 Unacceptable Blasting.** When unacceptable blasting occurs, the Department will halt all blasting operations. Blasting will not resume until the Department completes its investigation and all concerns are addressed. A blast is unacceptable when it results in fragmentation beyond the final rock face, fly rock, excessive vibration or airblast, overbreak, damage to the final rock face or overhang. Assume the cost for all resulting damages to private and public property and hold the Department harmless.

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When an errant blast or fly rock causes damage to or blocks a road or conveyance adjacent to the roadway, remove all debris from the roadway as quickly as practicable and perform any necessary repairs. Additionally, when specified in the Contract, the Department will apply a penalty.

Report all blasting accidents to the Division of Mine Reclamation and Enforcement, Explosives and Blasting Branch at 502-564-2340.

**4.0 MEASUREMENT AND PAYMENT.** The Department will not measure this work for payment and will consider all items contained in this note to be incidental to either Roadway Excavation or Embankment-in-Place, as applicable. However, if the Engineer directs in writing slope changes, then the Department will pay for the second presplitting operation as Extra Work.

The Department will measure for payment material lying outside the typical section due to seams, broken formations, or earth pockets, including any earth overburden removed with this material, only when the work is performed under authorized adjustments.

The Department will not measure for payment any extra material excavated because of the drill holes being offset outside the designated slope lines.

The Department will not measure for payment any material necessary to be removed due to the inefficient or faulty blasting practices.

June 15, 2012

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### SPECIAL NOTE FOR BORING AND JACKING STEEL PIPE WITHOUT CARRIER PIPE

This Special Note will apply where indicated on the plans or in the proposal. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** Bore and jack steel pipe. Use this note when no carrier pipe will be encased.

#### **2.0 MATERIALS.**

**2.1 Pipe.** Provide plain end steel pipe with a specific minimum yield strength, SMYS, of at least 35,000 psi and tensile strength of 60,000 psi per API-5L grade B material. The steel pipe supplied shall be manufactured by the seamless, electric-weld, submerged-arc weld or gas metal-arc well process as specified in API -5L. Certification of 35,000 psi SMYS shall be furnished by the supplier through the Contractor to the Engineer to retain 3 copies.

| MINIMUM WALL THICKNESS FOR STEEL PIPE |                         |
|---------------------------------------|-------------------------|
| Nominal Diameter (Inches)             | Wall Thickness (Inches) |
| 18 or less                            | 0.375                   |
| 24                                    | 0.500                   |
| 30                                    | 0.500                   |
| 36                                    | 0.532                   |
| 42                                    | 0.625                   |

**2.2 Grout.** Conform to Subsection 601.03.03.

**2.3 High Grade Bentonite.** Conform to the following:

| API 13A Section 4                   |                              |               |
|-------------------------------------|------------------------------|---------------|
| Requirement                         | Specification                | Result        |
| Viscometer Dial Reading at 600 rpm  | 30, minimum                  | 40            |
| Yield Point/Plastic Viscosity Ratio | 3, maximum                   | 3.00 maximum  |
| Filtrate Volume                     | 15 cm <sup>3</sup> , maximum | 14.50 maximum |
| Residue greater than 75 micrometers | 4.0 wt percent maximum       | 1.0-1.5 %     |
| Moisture                            | 10.0 wt percent maximum      | 9.0-9.5%      |

**3.0 CONSTRUCTION.** Perform the following:

1. Locate a suitable pit and obtain the Engineer's approval.
2. Excavate the pit or trenches for the BORE AND JACK operation and for placing the end joints of pipe, when required. Securely sheet and brace the pits or trenches to prevent caving, where necessary.

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3. When installing pipe under railroads, highways, streets, or other facilities by Bore and Jack, perform construction without interfering with the facility operation or weakening the roadbed or structure.
4. Place excavated material near the top of the working pit and dispose of it as required. Use water or other fluids with the boring operation to lubricate the cuttings. Do not perform jetting.
5. In unconsolidated soil formations, use a gel-forming colloidal drilling fluid with at least 10 percent of high grade bentonite to consolidate excavated material, seal the walls of the hole, and lubricate subsequent removal of material and immediate pipe installation.
6. Ensure that the diameter of the excavation conforms to the outside diameter of the pipe as closely as possible.
7. Pressure grout voids that develop during the installation operation and that the Engineer determines are detrimental to the Work.
8. To force the pipe through the roadbed into the bored space, use a jack with a head constructed to apply uniform pressure around the ring of the pipe, which shall be square cut.
9. Set the pipe to be jacked on guides, braced together to properly support the pipe section and to direct it to the proper line and grade.
10. When the installation is made by concurrent boring and jacking, solidly weld all joints. Ensure the weld is strong enough to withstand the forces exerted from the boring and jacking operations as well as the vertical loading imposed on the pipe after installation and that it provides a smooth, non-obstructing joint in the interior of the pipe.
11. When the pipe is installed in open trench, bed and backfill according to Section 701.
12. The line and grade from the pipe's final position, as shown on plans, may vary no more than 2 percent in lateral alignment and one percent in vertical grade. Ensure that the final grade of the flow line is in the direction indicated on the Plans.
13. Use a cutting edge around the head end. Extend it a short distance beyond the pipe end with inside angles or lugs to keep the cutting edge from slipping back into the pipe.
14. Once the pipe installation begins, proceed with the operation without interruption to prevent the pipe from becoming firmly set in the embankment.
15. Remove and replace pipe damaged in jacking operations.
16. After completing the installation, backfill the excavated pits and trenches with flowable fill according to Section 601.03.03 B) 5 a) if the pit is in median area where it will have pavement over it.

**4.0 MEASUREMENT.** The Department will measure the completed length of Bore and Jacked pipe through the flowline from end to end in linear feet. The Department will not measure pressure grouting voids or removal and replacement of pipe damaged in jacking operations for payment and will consider it incidental to Bore and Jack. When abandoning a bore hole due to mechanical malfunction, improper alignment, or other problems due to construction operations, the Department will not measure the backfill and relocation for payment and will consider it incidental to this item of work. When abandoning a bore hole due to an unforeseen physical obstruction or situation, the Department will measure the work according to a negotiated supplemental agreement.

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

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| <u>Code</u> | <u>Pay Item</u>          | <u>Pay Unit</u> |
|-------------|--------------------------|-----------------|
| ----        | Bore and Jack, Size Pipe | Linear Foot     |

The Department will consider payment as full compensation for all materials, earthwork, shoring, pipe and work required under this section.

June 15, 2012

## **SPECIAL NOTE FOR TURF REINFORCING MAT**

**1.0 DESCRIPTION.** Install turf reinforcement mat at locations specified in the Contract or as the Engineer directs. Section references herein are to the Department's 2008 Standard Specifications for Road and Bridge Construction.

### **2.0 MATERIALS.**

**2.1 Turf Reinforcement Mat (TRM).** Use a Turf Reinforcement Mat defined as permanent rolled erosion control product composed of non-degradable synthetic fibers, filaments, nets, wire mesh and/or other elements, processed into a three-dimensional matrix of sufficient thickness and from the Department's List of Approved Materials. Mats must be 100% UV stabilized materials. For TRMs containing degradable components, all physical property values must be obtained on the non-degradable portion of the matting exclusively. Ensure product labels clearly show the manufacturer or supplier name, style name, and roll number. Ensure labeling, shipment and storage follows ASTM D-4873. The Department will require manufacturer to provide TRMs that are machine constructed web of mechanically or melt bonded nondegradable fibers entangled to form a three dimensional matrix. The Department will require all long term performance property values in table below to be based on non degradable portion of the matting alone. Approved methods include polymer welding, thermal or polymer fusion, or placement of fibers between two high strength biaxially oriented nets mechanically bound by parallel stitching with polyolefin thread. Ensure that mats designated in the plans as Type 4 mats, are not to be manufactured from discontinuous or loosely held together by stitching or glued netting or composites. Type 4 mats shall be composed of geosynthetic matrix that exhibits a very high interlock and reinforcement capacities with both soil and root systems and with high tensile modulus. The Department will require manufacturer to use materials chemically and biologically inert to the natural soil environments conditions. Ensure the blanket is smolder resistant without the use of chemical additives. When stored, maintain the protective wrapping and elevate the mats off the ground to protect them from damage. The Department will not specify these materials for use in heavily acidic coal seam areas or other areas with soil problems that would severally limit vegetation growth.

- A) Dimensions. Ensure TRMs are furnished in strips with a minimum width of 4 feet and length of 50 feet.
- B) Weight. Ensure that all mat types have a minimum mass per unit area of 7 ounces per square yard according to ASTM D 6566.
- C) Performance Testing: The Department will require AASHTO's NTPEP index testing. The Department will also require the manufacturer to perform internal MARV testing at a Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP) accredited laboratory for tensile strength, tensile elongation, mass per unit area, and thickness once every 24,000 yds of production or whatever rate is required to ensure 97.7% confidence under ASTM D4439& 4354. The Department will require Full scale testing for slope and channel applications shear stress shall be done under ASTM D 6459, ASTM D 6460-07 procedures.

### **2.2 Classifications**

The basis for selection of the type of mat required will be based on the long term shear stress level of the mat of the channel in question or the degree of slope to protect and will be designated in the contract. The Type 4 mats are to be used at structural backfills protecting critical

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structures, utility cuts, areas where vehicles may be expected to traverse the mat, channels with large heavy drift, and where higher factors of safety, very steep slopes and/or durability concerns are needed as determined by project team and designer and will be specified in the plans by designer.

| Turf Reinforcement Matting                               |                     |                       |                     |                       |                                               |
|----------------------------------------------------------|---------------------|-----------------------|---------------------|-----------------------|-----------------------------------------------|
| Properties <sup>1</sup>                                  | Type 1              | Type 2                | Type 3              | Type 4                | Test Method                                   |
| Minimum tensile Strength lbs/ft                          | 125                 | 150                   | 175                 | 3000 by 1500          | ASTM D6818 <sup>2</sup>                       |
| UV stability (minimum % tensile retention)               | 80                  | 80                    | 80                  | 90                    | ASTM D4355 <sup>3</sup><br>(1000-hr exposure) |
| Minimum thickness (inches)                               | 0.25                | 0.25                  | 0.25                | 0.40                  | ASTM D6525                                    |
| Slopes applications                                      | 2H:1V<br>or flatter | 1.5H:1V<br>or flatter | 1H:1V or<br>flatter | 1 H: 1V or<br>greater |                                               |
| Shear stress lbs/ft <sup>2</sup><br>Channel applications | 6.0 <sup>4</sup>    | 8.0 <sup>4</sup>      | 10.0 <sup>4</sup>   | 12.0 <sup>4</sup>     | ASTM D6459<br>ASTM D6460-07                   |

<sup>1</sup> For TRMs containing degradable components, all physical property values must be obtained on the non-degradable portion of the matting alone.

<sup>2</sup>Minimum Average Roll Values for tensile strength of sample material machine direction.

<sup>3</sup>Tensile Strength percentage retained after stated 1000 hr duration of exposure under ASTM D4355 testing. Based on nondegradable components exclusively.

<sup>4</sup>Maximum permissible shear design values based on short-term (0.5 hr) vegetated data obtained by full scale flume testing ASTM D6459, D6460-07. Based on nondegradable components exclusively. Testing will be done at Independent Hydraulics Facility such as Colorado State University hydraulics laboratory, Utah State University hydraulics laboratory, Texas Transportation Institute (TTI) hydraulics and erosion control laboratory.

## 2.3 Quality Assurance Sampling, Testing, and Acceptance

- A) Provide TRM listed on the Department's List of Approved Materials. Prior to inclusion on the LAM, the manufacturer of TRM must meet the physical and performance criteria as outlined in the specification and submit a Letter Certifying compliance of the product under the above ASTM testing procedures and including a copy of report from Full Scale Independent Hydraulics Facility that Fully Vegetated Shear Stress meets shear stress requirements tested under D6459 and D6460-07.
- B) Contractors will provide a Letter of Certification from Manufacturer stating the product name, manufacturer, and that the product MARV product unit testing results meets Department criteria. Provide Letters once per project and for each product.
- C) Acceptance shall be in accordance with ASTM D-4759 based on testing performed by a Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP) accredited laboratory using Procedure A of ASTM D-4354.

Current mats meeting the above criteria are shown on the Department’s List of Approved Materials.

**2.4 Fasteners.** When the mat manufacturer does not specify a specific fastener, use steel wire U-shaped staples with a minimum diameter of 0.09 inches (11 gauge), a minimum width of one inch and a minimum length of 12 inches. Use a heavier gauge when working in rocky or clay soils and longer lengths in sandy soils as directed by Engineer or Manufacturer’s Representative. Provide staples with colored tops when requested by the Engineer.

**3.0 CONSTRUCTION.** When requested by the Engineer, provide a Manufacturer’s Representative on-site to oversee and approve the initial installation of the mat. When requested by the Engineer, provide a letter from the Manufacturer approving the installation. When there is a conflict between the Department’s criteria and the Manufacturer’s criteria, construct using the more restrictive. The Engineer and Manufacturer’s Representative must approve all alternate installation methods prior to execution. Construct according to the Manufacturer’s recommendations and the following as minimum installation technique:

**3.1 Site Preparation.** Grade areas to be treated with matting and compact. Remove large rocks, soil clods, vegetation, roots, and other sharp objects that could keep the mat from intimate contact with subgrade. Prepare seedbed by loosening the top 2 to 3 inch of soil.

**3.2 Installation.** Install mats according to Standard Drawing Sepias “Turf Mat Channel Installation” and “Turf Mat Slope Installation.” Install mats at the specified elevation and alignment. Anchor the mats with staples with a minimum length of 12 inches. Use longer anchors for installations in sandy, loose, or wet soils as directed by the Engineer or Manufacturer’s Representative. The mat should be in direct contact with the soil surface.

**4.0 MEASUREMENT.** The Department will measure the quantity of Turf Reinforcement Mat by the square yard of surface covered. The Department will not measure preparation of the bed, providing a Manufacturer’s Representative, topsoil, or seeding for payment and will consider them incidental to the Turf Reinforcement Mat. The Department will not measure any reworking of slopes or channels for payment as it is considered corrective work and incidental to the Turf Reinforcement Mat. Seeding and protection will be an incidental item.

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

| <u>Code</u> | <u>Pay Item</u>          | <u>Pay Unit</u> |
|-------------|--------------------------|-----------------|
| 23274EN11F  | Turf Reinforcement Mat 1 | Square Yard     |
| 23275EN11F  | Turf Reinforcement Mat 2 | Square Yard     |
| 23276EN11F  | Turf Reinforcement Mat 3 | Square Yard     |
| 23277EN11F  | Turf Reinforcement Mat 4 | Square Yard     |

April 18, 2009

## SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

**1.0 DESCRIPTION.** Install barcode label on sheeting signs. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

**2.0 MATERIALS.** The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

**3.0 CONSTRUCTION.** Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

**4.0 MEASUREMENT.** The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

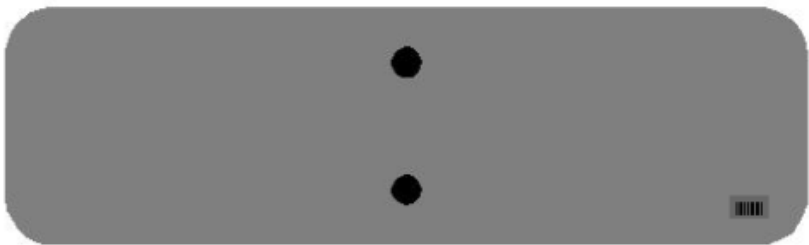
The installation of the permanent sign will be measured in accordance to Section 715.

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

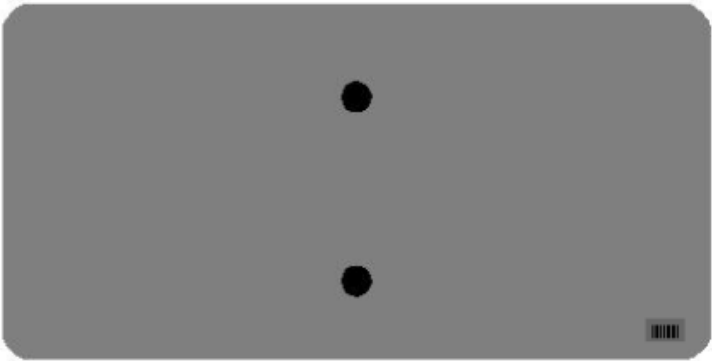
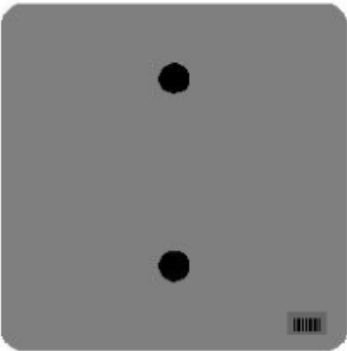
| <u>Code</u> | <u>Pay Item</u>        | <u>Pay Unit</u> |
|-------------|------------------------|-----------------|
| 24631EC     | Barcode Sign Inventory | Each            |

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

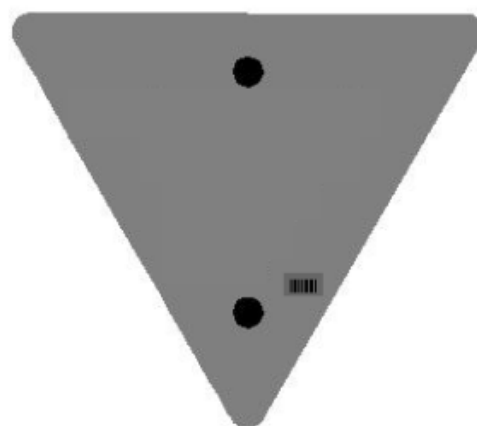
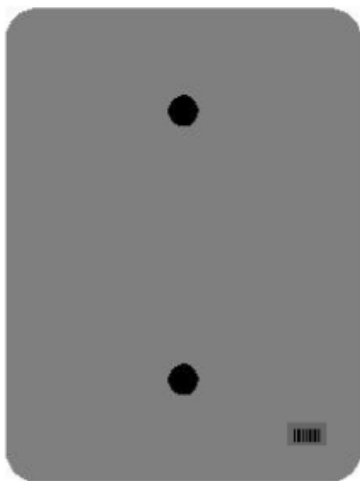
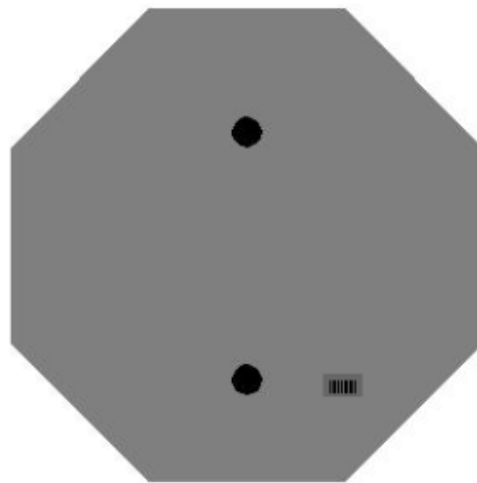
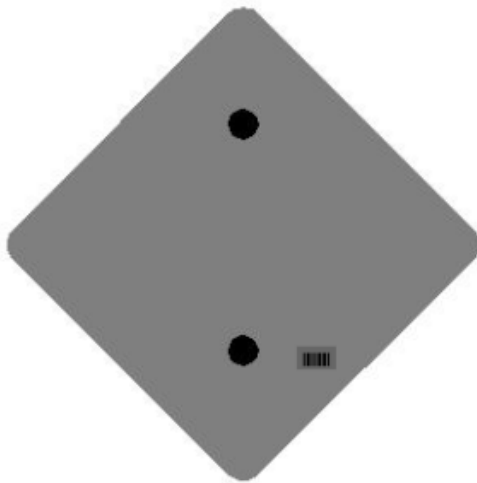
One Sign Post



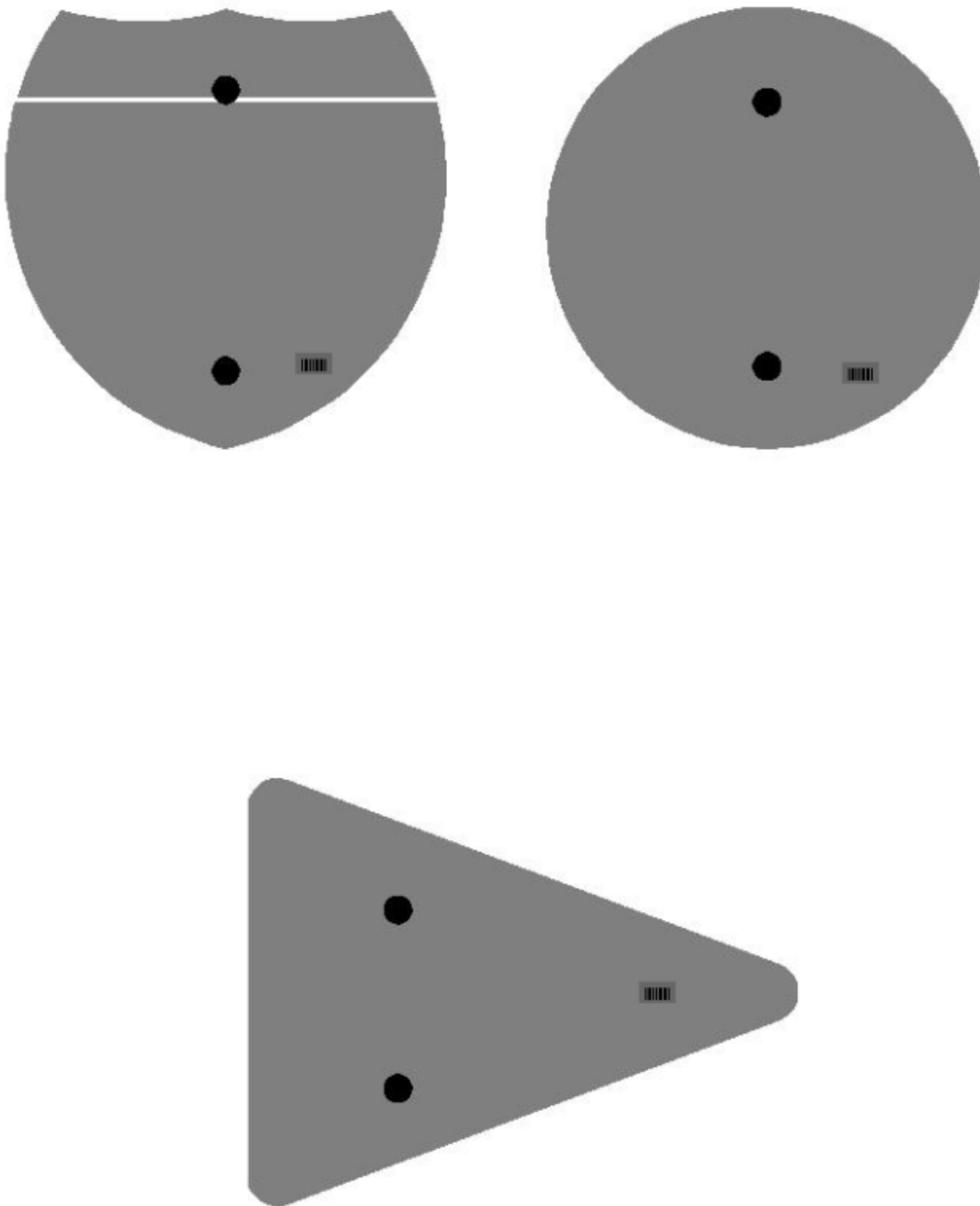
↑  
2" Wide Post



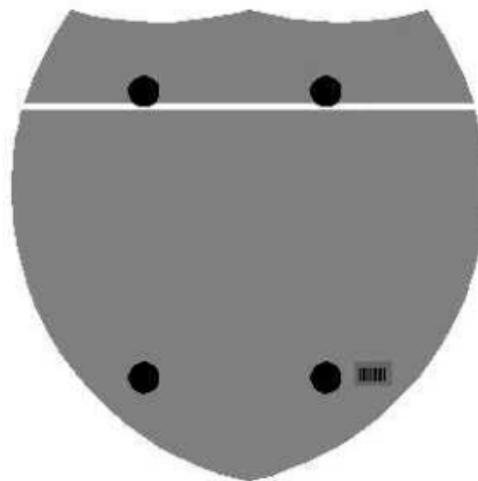
### One Sign Post



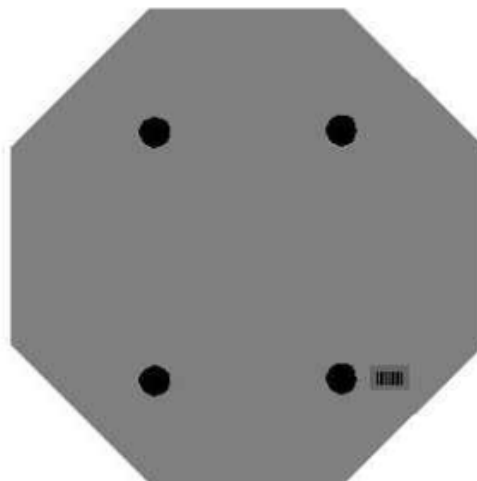
### One Sign Post



### Double Sign Post

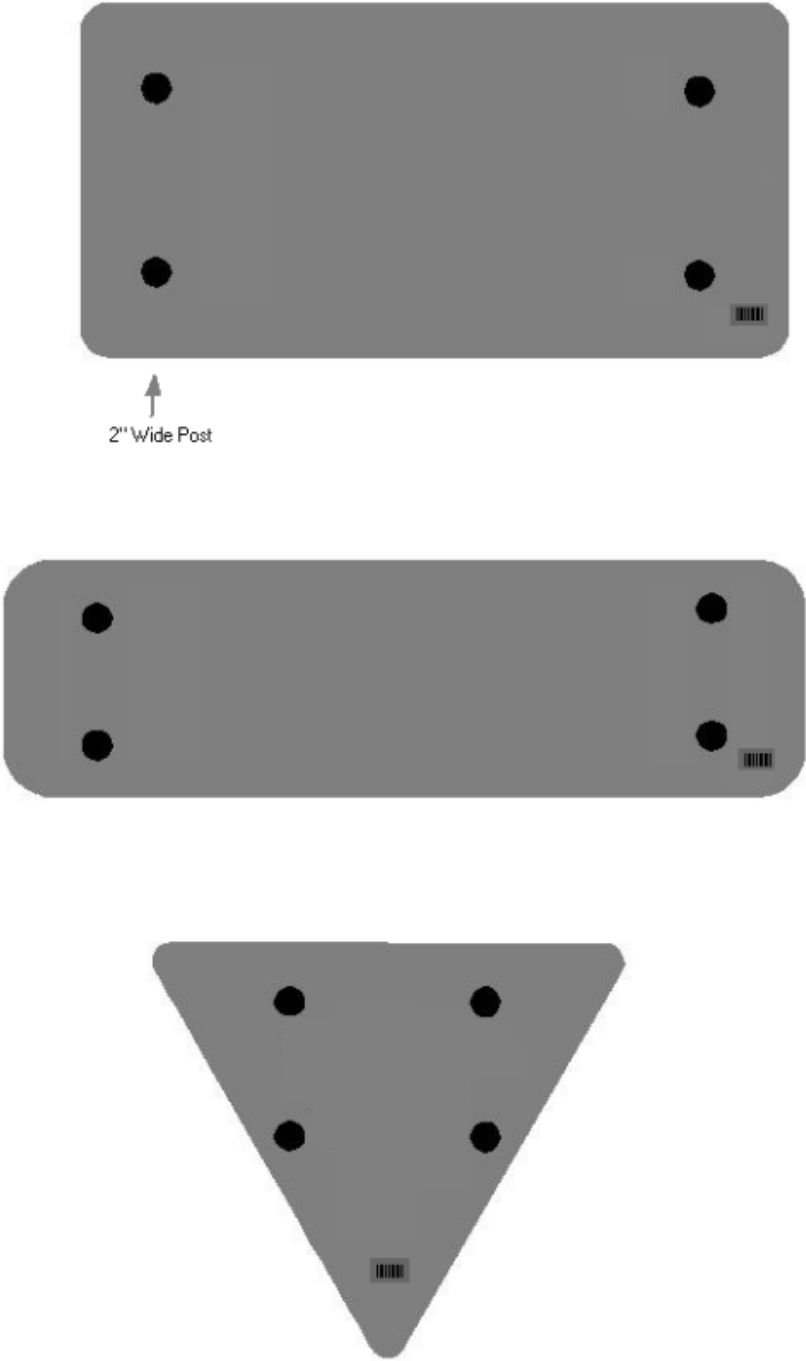


Interstate  
Shield



48" Stop

2 Post Signs



### **SPECIAL PROVISION FOR EMBANKMENT AT BRIDGE END BENT STRUCTURES**

This Special Provision will apply when indicated on the plans or in the proposal. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** Construct a soil, granular, or rock embankment with granular or cohesive pile core and place structure granular backfill, as the Plans require. Construct the embankment according to the requirements of this Special Provision, the Plans, Standard Drawing RGX 100 and 105, and the 2012 Standard Specifications.

#### **2.0 MATERIALS.**

**2.1 Granular Embankment.** Conform to Subsection 805.10. When Granular Embankment materials are erodible or unstable according to Subsection 805.03.04, use the Special Construction Methods found in 3.2 of the Special Provision.

**2.2 Rock Embankment.** Provide durable rock from roadway excavation that consists principally of Unweathered Limestone, Durable Shale (SDI equal to or greater than 95 according to KM 64-513), or Durable Sandstone.

**2.3 Granular Pile Core.** Select a gradation of durable rock to facilitate pile driving that conforms to Subsection 805.11. If granular pile core material hinders pile driving operations, take appropriate means necessary to reach the required pile tip elevation, at no expense to the Department.

**2.4 Cohesive Pile Core.** Conform to Section 206 of the Standard Specifications and use soil with at least 50 percent passing a No. 4 sieve having a minimum Plasticity Index (PI) of 10. In addition, keep the cohesive pile core free of boulders, larger than 6 inches in any dimension, or any other obstructions, which would interfere with drilling operations. If cohesive pile core material interferes with drilling operations, take appropriate means necessary to maintain excavation stability, at no expense to the Department.

**2.5 Structure Granular Backfill.** Conform to Subsection 805.11

**2.6 Geotextile Fabric.** Conform to Type I or Type IV in Section 214 and 843 as required in the plans.

#### **3.0 CONSTRUCTION.**

**3.1 General.** Construct roadway embankments at end bents according to Section 206 and in accordance with the Special Provision, the Plans, and Standard Drawings for the full embankment section. In some instances, granular or rock embankment will be required for embankment construction for stability purposes, but this special provision does not prevent the use of soil when appropriate. Refer to the plans for specific details regarding material requirements for embankment construction.

Place and compact granular or cohesive pile core, soil, granular or rock embankment, and structure granular backfill according to the applicable density requirements for the project. When constructing granular or rock embankments, use granular pile core for driven pile foundations and use cohesive pile core for pre-drilled pile or drilled shaft foundations. Place geotextile fabric, Type IV between cohesive pile core and structure

granular backfill and granular or rock embankment.

When granular or rock embankment is required for embankment construction, conform to the general requirements of Subsection 206.03.02 B). In addition, place the material in no greater than 2-foot lifts and compact with a vibrating smooth wheel roller capable of producing a minimum centrifugal force of 15 tons. Apply these requirements to the full width of the embankment for a distance of half the embankment height or 50 feet, whichever is greater, as shown on Standard Drawing RGX-105.

When using granular pile core, install 8-inch perforated underdrain pipe at or near the elevation of the original ground in the approximate locations depicted on the standard drawing, and as the Engineer directs, to ensure positive drainage of the embankment. Wrap the perforated pipe with a fabric of a type recommended by the pipe manufacturer.

After constructing the embankment, excavate for the end bent cap, drive piling or install shafts, place the mortar bed, construct the end bent, and complete the embankment to finish grade according to the construction sequence shown on the Plans or Standard Drawings and as specified hereinafter.

Certain projects may require widening of existing embankments and the removal of substructures. Construct embankment according to the plans. Substructure removal shall be completed according to the plans and Section 203. Excavation may be required at the existing embankment in order to place the structure granular backfill as shown in the Standard Drawings.

After piles are driven or shafts installed (see design drawings), slope the bottom of the excavation towards the ends of the trench as noted on the plans for drainage. Using a separate pour, place concrete mortar, or any class concrete, to provide a base for forming and placing the cap. Place side forms for the end bent after the mortar has set sufficiently to support workmen and forms without being disturbed.

Install 4-inch perforated pipe in accordance with the plans and Standard Drawings. In the event slope protection extends above the elevation of the perforated pipe, extend the pipe through the slope protection.

After placing the end bent cap and removing adjacent forms, fill the excavation with structure granular backfill material to the level of the berm prior to placing beams for the bridge. For soil embankments, place Type IV geotextile fabric between embankment material and structure granular backfill. After completing the end bent backwall, or after completing the span end wall, place the structure granular backfill to subgrade elevation. If the original excavation is enlarged, fill the entire volume with compacted structure granular backfill at no expense to the Department. Do not place backfill before removing adjacent form work. Place structure granular backfill material in trench ditches at the ends of the excavation. Place Geotextile Fabric, Type IV over the surface of structure granular backfill prior to placing aggregate base course.

Tamp the backfill with hand tampers, pneumatic tampers, or other means the Engineer approves. Thoroughly compact the backfill under the overhanging portions of the structure to ensure that the backfill is in intimate contact with the sides of the structure.

Do not apply seeding, sodding, or other vegetation to the exposed granular embankment.

**3.2 Special Construction Methods.** Erodible or unstable materials may erode even when protected by riprap or channel lining; use the special construction method described below when using these materials.

Use fine aggregates or friable sandstone granular embankment at "dry land" structures only. Do not use them at stream crossings or locations subject to flood waters.

For erodible or unstable materials having 50 percent or more passing the No. 4 sieve, protect with geotextile fabric. Extend the fabric from the original ground to the top of slope over the entire area of the embankment slopes on each side of, and in front of, the

end bent. Cover the fabric with at least 12 inches of non-erodible material.

For erodible or unstable materials having less than 50 percent passing a No. 4 sieve, cover with at least 12 inches of non-erodible material.

Where erodible or unstable granular embankment will be protected by riprap or channel lining, place geotextile fabric between the embankment and the specified slope protection.

#### **4.0 MEASUREMENT.**

**4.1 Granular Embankment.** The Department will measure the quantity in cubic yards using the plan quantity, increased or decreased by authorized adjustments as specified in Section 204. The Department will not measure for payment any Granular Embankment that is not called for in the plans.

The Department will not measure for payment any special construction caused by using erodible or unstable materials and will consider it incidental to the Granular Embankment regardless of whether the erodible or unstable material was specified or permitted.

**4.2 Rock Embankment.** The Department will not measure for payment any rock embankment and will consider it incidental to roadway excavation or embankment in place, as applicable. Rock embankments will be constructed using granular embankment on projects where there is no available rock present within the excavation limits of the project.

**4.3 Granular Pile Core.** The Department will measure the quantity in cubic yards using the plan quantity, increased or decreased by authorized adjustments as specified in Section 204. The Department will not measure for payment furnishing and placing 8-inch perforated underdrain pipe and will consider it incidental to the Granular pile core. The Department will not measure for payment any granular pile core that is necessary because the contractor elects to use granular or rock embankment when it is not specified in the plans.

**4.4 Cohesive Pile Core.** The Department will measure the quantity in cubic yards using the plan quantity, increased or decreased by authorized adjustments as specified in Section 204.

**4.5 Structure Granular Backfill.** The Department will measure the quantity in cubic yards using the plan quantity, increased or decreased by authorized adjustments as specified in Section 204. The Department will not measure any additional material required for backfill outside the limits shown on the Plans and Standard Drawings for payment and will consider it incidental to the work.

The Department will not measure structure excavation at the end bent or an existing embankment for payment and will consider it incidental to Structure Granular Backfill.

The Department will not measure for payment the 4-inch perforated underdrain pipe and will consider it incidental to the Structure Granular Backfill.

**4.6 Geotextile Fabric.** The Department will measure the quantities as specified in Section 214. The Department will not measure the quantity of fabric used for separating granular or rock embankment and cohesive pile core and will consider it incidental to cohesive pile core.

**4.7 End Bent.** The Department will measure the quantities according to the

Contract. The Department will not measure furnishing and placing the 2-inch mortar or concrete bed for payment and will consider it incidental to the end bent construction.

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

| <u>Code</u>  | <u>Pay Item</u>             | <u>Pay Unit</u> |
|--------------|-----------------------------|-----------------|
| 02223        | Granular Embankment         | Cubic Yards     |
| 20209EP69    | Granular Pile Core          | Cubic Yards     |
| 20210EP69    | Cohesive Pile Core          | Cubic Yards     |
| 02231        | Structure Granular Backfill | Cubic Yards     |
| 02596, 02599 | Geotextile Fabric, Type     | See Section 214 |

The Department will consider payment as full compensation for all work required in this provision.

June 15, 2012

## **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 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 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.

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## **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 administering 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.

KENTUCKY TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS  
**TRAINING SPECIAL PROVISIONS**

This Training Special Provision supersedes subparagraph 7b of the Special Provision entitled "Specific Equal Employment Opportunity Responsibilities," (Attachment 1), and is in implementation of 23 U.S.C. 140(a).

As part of the contractor's equal employment opportunity affirmative action program training shall be provided as follows:

The contractor shall provide on-the-job training aimed at developing full journeymen in the type of trade or job classification involved.

The number of trainees to be trained under these special provisions and in this contract is shown in "Special Notes Applicable to Project" in the bid proposal.

In the event that a contractor subcontracts a portion of the contract work, he shall determine how many, if any, of the trainees are to be trained by the subcontractor, provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

The number of trainees shall be distributed among the work classifications on the basis of the contractor's needs and the availability of journeymen in the various classifications within a reasonable area of recruitment. Prior to commencing construction the contractor shall submit to the Kentucky Transportation Cabinet, Department of Highways for its approval, an acceptable training program on forms provided by the Cabinet indicating the number of trainees to be trained in each selected classification. Failure to provide the Cabinet with the proper documentation evidencing an acceptable training program prior to commencing construction shall cause the Cabinet to suspend the operations of the contractor with (if applicable) working days being charged as usual against the contract time or (if applicable), no additional contract time being granted for the suspension period. The Cabinet will not be liable for the payment of any work performed during the suspension period due to the failure of the contractor to provide an acceptable training program. Said suspension period shall be terminated when an acceptable training program is received by the Cabinet. Furthermore, the contractor shall specify the starting time for training in each of the classifications. The contractor will be credited for each trainee employed by him on the contract work who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such trainees as provided hereinafter.

Training and upgrading of minorities and women toward journeymen status is a primary objective of this Training Special Provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority and women trainees) to the extent that such persons are available within a reasonable area of recruitment. The contractor will be responsible for demonstrating the steps that he has taken in pursuance thereof, prior to a determination as to whether the contractor is in compliance with this Training Special Provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which he has successfully completed a training course leading to journeyman status or in which he has been employed as a journeyman. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used the contractor's records should document the findings in each case. The minimum length and type of training for each classification will be as established in the training program selected by the contractor and approved by the Kentucky Transportation Cabinet, Department of Highways and the Federal Highway Administration shall approve a program if it is reasonably calculated to meet the equal employment opportunity obligations of the contractor and to qualify the average trainee for journeyman status in the classification concerned by the end of the training period. Furthermore, apprenticeship programs

registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau and training programs approved but not necessarily sponsored by the U.S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided it is being administered in a manner consistent with the equal employment obligations of Federal-aid highway construction contracts. Approval or acceptance of a training program shall be obtained from the State prior to commencing work on the classification covered by the program. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented toward construction applications. Training in the laborer classification may be permitted provided that significant and meaningful training is provided and approved by the division office. Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training.

Except as otherwise noted below, the contractor will be reimbursed for each hour of training given an employee on this contract in accordance with an approved training program. As approved by the engineer, reimbursement will be made for training persons in excess of the number specified herein. This reimbursement will be made even though the contractor receives additional training program funds from other sources, provided such other source does not specifically prohibit the contractor from receiving other reimbursement. Reimbursement for offsite training indicated above may only be made to the contractor where he does one or more of the following and the trainees are concurrently employed on a Federal-aid project; contributes to the cost of the training, provides the instruction to the trainee or pays the trainee's wages during the offsite training period.

No payment shall be made to the contractor if either the failure to provide the required training, or the failure to hire the trainee as a journeyman, is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirements of this Training Special Provision. It is normally expected that a trainee will begin his training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project as long as training opportunities exist in his work classification or until he has completed his training program. It is not required that all trainees be on board for the entire length of the contract. A contractor will have fulfilled his responsibilities under this Training Special Provision if he has provided acceptable training to the number of trainees specified. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.

Trainees will be paid at least 60 percent of the appropriate minimum journeyman's rate specified in the contract for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent for the last quarter of the training period, unless apprentices or trainees in an approved existing program are enrolled as trainees on this project. In that case, the appropriate rates approved by the Departments of Labor or Transportation in connection with the existing program shall apply to all trainees being trained for the same classification who are covered by this Training Special Provision.

The contractor shall furnish the trainee a copy of the program he will follow in providing the training. The contractor shall provide each trainee with a certification showing the type and length of training satisfactorily completed.

The contractor will provide for the maintenance of records and furnish periodic reports documenting his performance under this Training Special Provision.

General Decision Number: KY150100 06/19/2015 KY100

Superseded General Decision Number: KY20140100

State: Kentucky

Construction Type: Highway

Counties: Anderson, Bath, Bourbon, Boyd, Boyle, Bracken, Breckinridge, Bullitt, Carroll, Carter, Clark, Elliott, Fayette, Fleming, Franklin, Gallatin, Grant, Grayson, Greenup, Hardin, Harrison, Henry, Jefferson, Jessamine, Larue, Lewis, Madison, Marion, Mason, Meade, Mercer, Montgomery, Nelson, Nicholas, Oldham, Owen, Robertson, Rowan, Scott, Shelby, Spencer, Trimble, Washington and Woodford 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: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is 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 \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. 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](http://www.dol.gov/whd/govcontracts).

| Modification Number | Publication Date |
|---------------------|------------------|
| 0                   | 01/02/2015       |
| 1                   | 01/23/2015       |
| 2                   | 01/30/2015       |
| 3                   | 02/20/2015       |
| 4                   | 05/01/2015       |
| 5                   | 05/22/2015       |
| 6                   | 06/05/2015       |
| 7                   | 06/12/2015       |
| 8                   | 06/19/2015       |

BRIN0004-003 06/01/2011

BRECKENRIDGE COUNTY

|                 | Rates    | Fringes |
|-----------------|----------|---------|
| BRICKLAYER..... | \$ 24.11 | 10.07   |
| -----           |          |         |

BRKY0001-005 06/01/2014

BULLITT, CARROLL, GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, & TRIMBLE

COUNTIES:

|                 | Rates    | Fringes |
|-----------------|----------|---------|
| BRICKLAYER..... | \$ 25.37 | 10.50   |

-----  
BRKY0002-006 06/01/2011

BRACKEN, GALLATIN, GRANT, MASON & ROBERTSON COUNTIES:

|                 | Rates    | Fringes |
|-----------------|----------|---------|
| BRICKLAYER..... | \$ 26.57 | 10.26   |

-----  
BRKY0007-004 06/01/2014

BOYD, CARTER, ELLIOT, FLEMING, GREENUP, LEWIS & ROWAN COUNTIES:

|                 | Rates    | Fringes |
|-----------------|----------|---------|
| BRICKLAYER..... | \$ 30.57 | 17.94   |

-----  
BRKY0017-004 06/01/2009

ANDERSON, BATH, BOURBON, BOYLE, CLARK, FAYETTE, FRANKLIN,  
HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS,  
OWEN, SCOTT, WASHINGTON & WOODFORD COUNTIES:

|                 | Rates    | Fringes |
|-----------------|----------|---------|
| BRICKLAYER..... | \$ 24.11 | 9.97    |

-----  
CARP0064-001 05/01/2015

|                    | Rates    | Fringes |
|--------------------|----------|---------|
| CARPENTER.....     | \$ 27.50 | 16.06   |
| Diver.....         | \$ 41.63 | 16.06   |
| PILEDRIVERMAN..... | \$ 27.75 | 16.06   |

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\* ELEC0212-008 06/01/2015

BRACKEN, GALLATIN and GRANT COUNTIES

|                  | Rates    | Fringes |
|------------------|----------|---------|
| ELECTRICIAN..... | \$ 27.03 | 17.02   |

-----  
ELEC0212-014 12/01/2014

BRACKEN, GALLATIN & GRANT COUNTIES:

|                                          | Rates    | Fringes |
|------------------------------------------|----------|---------|
| Sound & Communication<br>Technician..... | \$ 22.75 | 10.08   |

-----  
ELEC0317-012 05/28/2014

BOYD, CARTER, ELLIOT & ROWAN COUNTIES:

|                         | Rates    | Fringes |
|-------------------------|----------|---------|
| ELECTRICIAN             |          |         |
| Cable Splicer.....      | \$ 32.68 | 18.13   |
| Electrician.....        | \$ 32.62 | 21.45   |
| -----                   |          |         |
| ELEC0369-007 05/28/2014 |          |         |

ANDERSON, BATH, BOURBON, BOYLE, BRECKINRIDGE, BULLITT, CARROLL,  
CLARK, FAYETTE, FRAONKLIN, GRAYSON, HARDIN, HARRISON, HENRY,  
JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER,  
MONTGOMERY, NELSON, NICHOLAS, OLDHAM, OWEN, ROBERTSON, SCOTT,  
SHELBY, SPENCER, TRIMBLE, WASHINGTON, & WOODFORD COUNTIES:

|                         | Rates    | Fringes |
|-------------------------|----------|---------|
| ELECTRICIAN.....        | \$ 29.88 | 14.78   |
| -----                   |          |         |
| ELEC0575-002 06/02/2014 |          |         |

FLEMING, GREENUP, LEWIS & MASON COUNTIES:

|                         | Rates    | Fringes |
|-------------------------|----------|---------|
| ELECTRICIAN.....        | \$ 31.70 | 14.21   |
| -----                   |          |         |
| ENGI0181-018 07/01/2014 |          |         |

|                          | Rates    | Fringes |
|--------------------------|----------|---------|
| POWER EQUIPMENT OPERATOR |          |         |
| GROUP 1.....             | \$ 28.85 | 14.15   |
| GROUP 2.....             | \$ 26.24 | 14.15   |
| GROUP 3.....             | \$ 26.65 | 14.15   |
| GROUP 4.....             | \$ 25.95 | 14.15   |

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 Concrete 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 leads equals or exceeds 150 ft. - \$1.00 over  
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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IRON0044-009 06/01/2015

BRACKEN, GALLATIN, GRANT, HARRISON, ROBERTSON,  
BOURBON (Northern third, including Townships of Jackson,  
Millersburg, Ruddel Mills & Shawhan);  
CARROLL (Eastern third, including the Township of Ghent);  
FLEMING (Western part, excluding Townships of Beechburg, Colfax,  
Elizaville, Flemingsburg, Flemingsburg Junction, Foxport,  
Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills,  
Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar  
Plains, Ringos Mills, Tilton & Wallingford);  
MASON (Western two-thirds, including Townships of Dover,  
Lewisburg, Mays Lick, Maysville, Minerva, Moranburg,  
Murphysville, Ripley, Sardis, Shannon, South Ripley &  
Washington);  
NICHOLAS (Townships of Barefoot, Barterville, Carlisle,  
Ellisville, Headquarters, Henryville, Morningglory, Myers &  
Oakland Mills);

OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley);

SCOTT (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall)

|                    | Rates    | Fringes |
|--------------------|----------|---------|
| IRONWORKER         |          |         |
| Fence Erector..... | \$ 23.76 | 19.15   |
| Structural.....    | \$ 26.40 | 19.15   |

\* IRON0070-006 06/01/2015

ANDERSON, BOYLE, BRECKINRIDGE, BULLITT, FAYETTE, FRANKLIN, GRAYSON, HARDIN, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE, WASHINGTON & WOODFORD  
BOURBON (Southern two-thirds, including Townships of Austerlity, Centerville, Clintonville, Elizabeth, Hutchison, Littlerock, North Middletown & Paris);  
CARROLL (Western two-thirds, including Townships of Carrollton, Easterday, English, Locust, Louis, Prestonville & Worthville);  
CLARK (Western two-thirds, including Townships of Becknerville, Flanagan, Ford, Pine Grove, Winchester & Wyandotte);  
OWEN (Eastern eighth, including Townships of Glenmary, Gratz, Monterey, Perry Park & Tacketts Mill);  
SCOTT (Southern third, including Townships of Georgetown, Great Crossing, Newtown, Stampling Ground & Woodlake);

|                 | Rates    | Fringes |
|-----------------|----------|---------|
| IRONWORKER..... | \$ 27.56 | 20.30   |

IRON0372-006 07/01/2014

BRACKEN, GALLATIN, GRANT, HARRISON and ROBERTSON  
BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan);  
CARROLL (Eastern third, including the Township of Ghent);  
FLEMING (Western part, Excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummerts Landing, Plummerts Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford);  
MASON (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington);  
NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills);  
OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita &

Wheatley);  
SCOTT (Northern two-thirds, including Townships of Biddle,  
Davis, Delaplain, Elmvile, Longlick, Muddy Ford, Oxford, Rogers  
Gap, Sadieville, Skinnersburg & Stonewall) COUNTIES

|                              | Rates    | Fringes |
|------------------------------|----------|---------|
| IRONWORKER, REINFORCING..... | \$ 26.25 | 18.45   |
| -----                        |          |         |
| IRON0769-007 06/01/2015      |          |         |

BATH, BOYD, CARTER, ELLIOTT, GREENUP, LEWIS, MONTGOMERY & ROWAN  
CLARK (Eastern third, including townships of Bloomingdale,  
Hunt, Indian Fields, Kiddville, Loglick, Rightangele & Thomson);  
FLEMING (Townships of Beechburg, Colfax, Elizaville,  
Flemingsburg, Flemingsburg Junction, Foxport, Grange City,  
Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton,  
Pecksville, Plummers Landing, Plummers Mill, Poplar Plains,  
Ringos Mills, Tilton & Wallingford);  
MASON (Eastern third, including Townships of Helena, Marshall,  
Orangeburg, Plumville & Springdale);  
NICHOLAS (Eastern eighth, including the Township of Moorefield  
Sprout)

|                                                                                  | Rates    | Fringes |
|----------------------------------------------------------------------------------|----------|---------|
| IRONWORKER                                                                       |          |         |
| ZONE 1.....                                                                      | \$ 31.33 | 22.39   |
| ZONE 2.....                                                                      | \$ 31.73 | 22.39   |
| ZONE 3.....                                                                      | \$ 33.33 | 22.39   |
|                                                                                  |          |         |
| ZONE 1 - Up to 10 mile radius of Union Hall, Ashland, Ky.,<br>1643 Greenup Ave.  |          |         |
|                                                                                  |          |         |
| ZONE 2 - 10 to 50 mile radius of Union Hall, Ashland, Ky.,<br>1643 Greenup Ave.  |          |         |
|                                                                                  |          |         |
| ZONE 3 - 50 mile radius & over of Union Hall, Ashland, Ky.,<br>1643 Greenup Ave. |          |         |

|                                                                                                                                                                                                                                                          |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| -----                                                                                                                                                                                                                                                    |  |  |
| LABO0189-003 07/01/2014                                                                                                                                                                                                                                  |  |  |
|                                                                                                                                                                                                                                                          |  |  |
| BATH, BOURBON, BOYD, BOYLE, BRACKEN, CARTER, CLARK, ELLIOTT,<br>FAYETTE, FLEMING, FRANKLIN, GALLATIN, GRANT, GREENUP, HARRISON,<br>JESSAMINE, LEWIS, MADISON, MASON, MERCER, MONTGOMERY, NICHOLAS,<br>OWEN, ROBERTSON, ROWAN, SCOTT, & WOOLFORD COUNTIES |  |  |

|                          | Rates    | Fringes |
|--------------------------|----------|---------|
| Laborers:                |          |         |
| GROUP 1.....             | \$ 21.80 | 11.96   |
| GROUP 2.....             | \$ 22.05 | 11.96   |
| GROUP 3.....             | \$ 22.10 | 11.96   |
| GROUP 4.....             | \$ 22.70 | 11.96   |
|                          |          |         |
| LABORERS 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; Bushhammer; 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; 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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LABO0189-008 07/01/2014

ANDERSON, BULLITT, CARROLL, HARDIN, HENRY, JEFFERSON, LARUE,  
MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE &  
WASHINGTON COUNTIES

|              | Rates    | Fringes |
|--------------|----------|---------|
| Laborers:    |          |         |
| GROUP 1..... | \$ 22.71 | 11.05   |
| GROUP 2..... | \$ 22.96 | 11.05   |
| GROUP 3..... | \$ 23.01 | 11.05   |
| GROUP 4..... | \$ 23.61 | 11.05   |

LABORERS 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; Bushhammer; 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; 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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LABO0189-009 07/01/2014

BRECKINRIDGE & GRAYSON 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   |

LABORERS 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; Bushhammer; 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; 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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PAIN0012-005 06/11/2005

BATH, BOURBON, BOYLE, CLARK, FAYETTE, FLEMING, FRANKLIN,  
HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS,  
ROBERTSON, SCOTT & WOODFORD COUNTIES:

|                                                                      | Rates    | Fringes |
|----------------------------------------------------------------------|----------|---------|
| PAINTER                                                              |          |         |
| Bridge/Equipment Tender<br>and/or Containment Builder..              | \$ 18.90 | 5.90    |
| Brush & Roller.....                                                  | \$ 21.30 | 5.90    |
| Elevated Tanks;<br>Steeplejack Work; Bridge &<br>Lead Abatement..... | \$ 22.30 | 5.90    |
| Sandblasting &<br>Waterblasting.....                                 | \$ 22.05 | 5.90    |
| Spray.....                                                           | \$ 21.80 | 5.90    |

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PAIN0012-017 05/01/2015

BRACKEN, GALLATIN, GRANT, MASON & OWEN COUNTIES:

|                                                                              | Rates    | Fringes |
|------------------------------------------------------------------------------|----------|---------|
| PAINTER (Heavy & Highway<br>Bridges - Guardrails -<br>Lightpoles - Striping) |          |         |
| Bridge Equipment Tender<br>and Containment Builder.....                      | \$ 20.73 | 9.06    |

|                                                                      |          |      |
|----------------------------------------------------------------------|----------|------|
| Brush & Roller.....                                                  | \$ 23.39 | 9.06 |
| Elevated Tanks;<br>Steeplejack Work; Bridge &<br>Lead Abatement..... | \$ 24.39 | 9.06 |
| Sandblasting & Water<br>Blasting.....                                | \$ 24.14 | 9.06 |
| Spray.....                                                           | \$ 23.89 | 9.06 |

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PAIN0118-004 06/01/2014

ANDERSON, BRECKINRIDGE, BULLITT, CARROLL, GRAYSON, HARDIN,  
HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY,  
SPENCER, TRIMBLE & WASHINGTON COUNTIES:

|                                                                       | Rates    | Fringes |
|-----------------------------------------------------------------------|----------|---------|
| PAINTER                                                               |          |         |
| Brush & Roller.....                                                   | \$ 18.50 | 11.97   |
| Spray, Sandblast, Power<br>Tools, Waterblast & Steam<br>Cleaning..... | \$ 19.50 | 11.97   |

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PAIN1072-003 12/01/2014

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS and ROWAN COUNTIES

|                                                                         | Rates    | Fringes |
|-------------------------------------------------------------------------|----------|---------|
| Painters:                                                               |          |         |
| Bridges; Locks; Dams;<br>Tension Towers & Energized<br>Substations..... | \$ 31.83 | 15.30   |
| Power Generating Facilities.                                            | \$ 28.59 | 15.30   |

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PLUM0248-003 06/01/2014

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS & ROWAN COUNTIES:

|                              | Rates    | Fringes |
|------------------------------|----------|---------|
| Plumber and Steamfitter..... | \$ 33.00 | 18.95   |

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PLUM0392-007 06/01/2014

BRACKEN, CARROLL (Eastern Half), GALLATIN, GRANT, MASON, OWEN &  
ROBERTSON COUNTIES:

|                               | Rates    | Fringes |
|-------------------------------|----------|---------|
| Plumbers and Pipefitters..... | \$ 29.80 | 17.79   |

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PLUM0502-003 08/01/2013

BRECKINRIDGE, BULLITT, CARROLL (Western Half), FRANKLIN  
(Western three-fourths), GRAYSON, HARDIN, HENRY, JEFFERSON,  
LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE &  
WASHINGTON COUNTIES

|              | Rates    | Fringes |
|--------------|----------|---------|
| PLUMBER..... | \$ 32.00 | 17.17   |

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SUKY2010-160 10/08/2001

|                | Rates    | Fringes |
|----------------|----------|---------|
| Truck drivers: |          |         |
| GROUP 1.....   | \$ 16.57 | 7.34    |
| GROUP 2.....   | \$ 16.68 | 7.34    |
| GROUP 3.....   | \$ 16.86 | 7.34    |
| GROUP 4.....   | \$ 16.96 | 7.34    |

#### TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Mobile Batch Truck Tender

GROUP 2 - Greaser; Tire Changer; & Mechanic Tender

GROUP 3 - Single Axle Dump; Flatbed; Semi-trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Distributor; Mixer; & Truck Mechanic

GROUP 4 - Euclid & Other Heavy Earthmoving Equipment & Lowboy; Articulator Cat; 5-Axle Vehicle; Winch & A-Frame when used in transporting materials; Ross Carrier; Forklift when used to transport building materials; & Pavement Breaker

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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-15-III- HWY dated July 20, 2015.

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:

| <b>GOALS FOR MINORITY<br/>PARTICIPATION<br/>IN EACH TRADE</b> | <b>GOALS FOR FEMALE<br/>PARTICIPATION IN<br/>EACH TRADE</b> |
|---------------------------------------------------------------|-------------------------------------------------------------|
| 9.6%                                                          | 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 Hardin 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**

Report Date 7/29/15

Section: 0001 - PAVING

| LINE | BID CODE | ALT | DESCRIPTION                      | QUANTITY   | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------------------------|------------|------|-----------|----|--------|
| 0010 | 00001    |     | DGA BASE                         | 128,383.00 | TON  |           | \$ |        |
| 0020 | 00008    |     | CEMENT STABILIZED ROADBED        | 327,121.00 | SQYD |           | \$ |        |
| 0030 | 00018    |     | DRAINAGE BLANKET-TYPE II-ASPH    | 169,549.00 | TON  |           | \$ |        |
| 0040 | 00020    |     | TRAFFIC BOUND BASE               | 219.00     | TON  |           | \$ |        |
| 0050 | 00078    |     | CRUSHED AGGREGATE SIZE NO 2      | 9,200.00   | TON  |           | \$ |        |
| 0060 | 00100    |     | ASPHALT SEAL AGGREGATE           | 859.00     | TON  |           | \$ |        |
| 0070 | 00103    |     | ASPHALT SEAL COAT                | 103.00     | TON  |           | \$ |        |
| 0080 | 00190    |     | LEVELING & WEDGING PG64-22       | 31,084.00  | TON  |           | \$ |        |
| 0090 | 00214    |     | CL3 ASPH BASE 1.00D PG64-22      | 175,900.00 | TON  |           | \$ |        |
| 0100 | 00216    |     | CL3 ASPH BASE 1.00D PG76-22      | 3,689.00   | TON  |           | \$ |        |
| 0110 | 00217    |     | CL4 ASPH BASE 1.00D PG64-22      | 136,917.00 | TON  |           | \$ |        |
| 0120 | 00219    |     | CL4 ASPH BASE 1.00D PG76-22      | 64,414.00  | TON  |           | \$ |        |
| 0130 | 00336    |     | CL3 ASPH SURF 0.38A PG76-22      | 1,522.00   | TON  |           | \$ |        |
| 0140 | 00339    |     | CL3 ASPH SURF 0.38D PG64-22      | 23,763.00  | TON  |           | \$ |        |
| 0150 | 00342    |     | CL4 ASPH SURF 0.38A PG76-22      | 28,339.00  | TON  |           | \$ |        |
| 0160 | 00358    |     | ASPHALT CURING SEAL              | 656.00     | TON  |           | \$ |        |
| 0170 | 02081    |     | JPC PAVEMENT-8 IN SHLD           | 206.00     | SQYD |           | \$ |        |
| 0180 | 02542    |     | CEMENT                           | 6,359.00   | TON  |           | \$ |        |
| 0190 | 02676    |     | MOBILIZATION FOR MILL & TEXT     | 1.00       | LS   |           | \$ |        |
| 0200 | 02677    |     | ASPHALT PAVE MILLING & TEXTURING | 8,536.00   | TON  |           | \$ |        |
| 0210 | 02702    |     | SAND FOR BLOTTER                 | 818.00     | TON  |           | \$ |        |
| 0220 | 20757ED  |     | PAVEMENT REPAIR<br>MAJOR         | 816.00     | SQYD |           | \$ |        |
| 0230 | 20757ED  |     | PAVEMENT REPAIR<br>MINOR         | 816.00     | SQYD |           | \$ |        |
| 0240 | 20757ED  |     | PAVEMENT REPAIR<br>MOT           | 816.00     | SQYD |           | \$ |        |
| 0250 | 24470ED  |     | PERMEABLE PAVEMENT DRAIN         | 13.00      | SQYD |           | \$ |        |

Section: 0002 - ROADWAY

| LINE | BID CODE | ALT | DESCRIPTION                                        | QUANTITY  | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------------------------------------------|-----------|------|-----------|----|--------|
| 0610 | 00078    |     | CRUSHED AGGREGATE SIZE NO 2                        | 7,360.00  | TON  |           | \$ |        |
| 0620 | 01310    |     | REMOVE PIPE                                        | 1,034.00  | LF   |           | \$ |        |
| 0630 | 01584    |     | CAP DROP BOX INLET                                 | 5.00      | EACH |           | \$ |        |
| 0640 | 01585    |     | REMOVE DROP BOX INLET                              | 91.00     | EACH |           | \$ |        |
| 0650 | 01655    |     | REMOVE JUNCTION BOX                                | 1.00      | EACH |           | \$ |        |
| 0660 | 01718    |     | REMOVE INLET<br>REMOVE FLUME INLET                 | 16.00     | EACH |           | \$ |        |
| 0670 | 01825    |     | ISLAND CURB AND GUTTER                             | 196.00    | LF   |           | \$ |        |
| 0680 | 01845    |     | ISLAND INTEGRAL CURB                               | 111.00    | LF   |           | \$ |        |
| 0690 | 01877    |     | SPECIAL HEADER CURB                                | 4,227.00  | LF   |           | \$ |        |
| 0700 | 01891    |     | ISLAND HEADER CURB TYPE 2                          | 50.00     | LF   |           | \$ |        |
| 0710 | 01955    |     | CONC MEDIAN BARRIER TYPE 12C1                      | 800.00    | LF   |           | \$ |        |
| 0720 | 01967    |     | CONC MEDIAN BARRIER TYPE 12C                       | 43,641.00 | LF   |           | \$ |        |
| 0730 | 01982    |     | DELINEATOR FOR GUARDRAIL MONO<br>DIRECTIONAL WHITE | 250.00    | EACH |           | \$ |        |

Report Date 7/29/15

| LINE | BID CODE | ALT | DESCRIPTION                                      | QUANTITY   | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|--------------------------------------------------|------------|------|-----------|----|--------|
| 0740 | 01983    |     | DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW | 7.00       | EACH |           | \$ |        |
| 0750 | 01984    |     | DELINEATOR FOR BARRIER - WHITE                   | 9,849.00   | EACH |           | \$ |        |
| 0760 | 01985    |     | DELINEATOR FOR BARRIER - YELLOW                  | 14,770.00  | EACH |           | \$ |        |
| 0770 | 01986    |     | DELINEATOR FOR BARRIER WALL-B/Y                  | 468.00     | EACH |           | \$ |        |
| 0780 | 01987    |     | DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE    | 32.00      | EACH |           | \$ |        |
| 0790 | 01990    |     | DELINEATOR FOR BARRIER WALL-B/W                  | 12.00      | EACH |           | \$ |        |
| 0800 | 01992    |     | INSTALL TEMP CONC MED BARR                       | 82,800.00  | LF   |           | \$ |        |
| 0810 | 02003    |     | RELOCATE TEMP CONC BARRIER                       | 199,740.00 | LF   |           | \$ |        |
| 0820 | 02014    |     | BARRICADE-TYPE III                               | 12.00      | EACH |           | \$ |        |
| 0830 | 02159    |     | TEMP DITCH                                       | 20,000.00  | LF   |           | \$ |        |
| 0840 | 02165    |     | REMOVE PAVED DITCH                               | 57.00      | SQYD |           | \$ |        |
| 0850 | 02200    |     | ROADWAY EXCAVATION                               | 315,299.00 | CUYD |           | \$ |        |
| 0860 | 02231    |     | STRUCTURE GRANULAR BACKFILL                      | 1,492.00   | CUYD |           | \$ |        |
| 0870 | 02233    |     | SPECIAL EMBANKMENT GRANULAR                      | 13,864.00  | CUYD |           | \$ |        |
| 0880 | 02242    |     | WATER                                            | 4,700.00   | MGAL |           | \$ |        |
| 0890 | 02259    |     | FENCE-TEMP                                       | 2,000.00   | LF   |           | \$ |        |
| 0900 | 02262    |     | FENCE-WOVEN WIRE TYPE 1                          | 83,939.00  | LF   |           | \$ |        |
| 0910 | 02265    |     | REMOVE FENCE                                     | 83,949.00  | LF   |           | \$ |        |
| 0920 | 02352    |     | GUARDRAIL-STEEL W BEAM-D FACE                    | 38.00      | LF   |           | \$ |        |
| 0930 | 02359    |     | GUARDRAIL CONNECTOR TO CONC MED BARR             | 1.00       | EACH |           | \$ |        |
| 0940 | 02360    |     | GUARDRAIL TERMINAL SECTION NO 1                  | 2.00       | EACH |           | \$ |        |
| 0950 | 02363    |     | GUARDRAIL CONNECTOR TO BRIDGE END TY A           | 13.00      | EACH |           | \$ |        |
| 0960 | 02369    |     | GUARDRAIL END TREATMENT TYPE 2A                  | 25.00      | EACH |           | \$ |        |
| 0970 | 02381    |     | REMOVE GUARDRAIL                                 | 29,000.00  | LF   |           | \$ |        |
| 0980 | 02387    |     | GUARDRAIL CONNECTOR TO BRIDGE END TY A-1         | 3.00       | EACH |           | \$ |        |
| 0990 | 02391    |     | GUARDRAIL END TREATMENT TYPE 4A                  | 29.00      | EACH |           | \$ |        |
| 1000 | 02429    |     | RIGHT-OF-WAY MONUMENT TYPE 1                     | 27.00      | EACH |           | \$ |        |
| 1010 | 02432    |     | WITNESS POST                                     | 3.00       | EACH |           | \$ |        |
| 1020 | 02545    |     | CLEARING AND GRUBBING 184 ACRES                  | 1.00       | LS   |           | \$ |        |
| 1030 | 02555    |     | CONCRETE-CLASS B                                 | 30.00      | CUYD |           | \$ |        |
| 1040 | 02562    |     | TEMPORARY SIGNS                                  | 2,224.00   | SQFT |           | \$ |        |
| 1050 | 02570    |     | PROJECT CPM SCHEDULE SEE DESIGN FOR SPECIAL NOTE | 1.00       | LS   |           | \$ |        |
| 1060 | 02585    |     | EDGE KEY                                         | 286.00     | LF   |           | \$ |        |
| 1070 | 02625    |     | REMOVE HEADWALL                                  | 28.00      | EACH |           | \$ |        |
| 1080 | 02650    |     | MAINTAIN & CONTROL TRAFFIC                       | 1.00       | LS   |           | \$ |        |
| 1090 | 02671    |     | PORTABLE CHANGEABLE MESSAGE SIGN                 | 11.00      | EACH |           | \$ |        |
| 1100 | 02690    |     | SAFELOADING                                      | 163.00     | CUYD |           | \$ |        |
| 1110 | 02696    |     | SHOULDER RUMBLE STRIPS-SAWED                     | 197,971.00 | LF   |           | \$ |        |
| 1120 | 02726    |     | STAKING                                          | 1.00       | LS   |           | \$ |        |
| 1130 | 02731    |     | REMOVE STRUCTURE I-65 SB OVER RHUDES CREEK ROAD  | 1.00       | LS   |           | \$ |        |
| 1140 | 02731    |     | REMOVE STRUCTURE KY 1136 OVER I-65               | 1.00       | LS   |           | \$ |        |
| 1150 | 02731    |     | REMOVE STRUCTURE I-65 NB OVER NOLIN RIVER        | 1.00       | LS   |           | \$ |        |

| LINE | BID CODE   | ALT | DESCRIPTION                                        | QUANTITY     | UNIT  | UNIT PRIC | FP | AMOUNT         |
|------|------------|-----|----------------------------------------------------|--------------|-------|-----------|----|----------------|
| 1160 | 02731      |     | REMOVE STRUCTURE<br>I-65 SB OVER NOLIN RIVER       | 1.00         | LS    |           | \$ |                |
| 1170 | 02731      |     | REMOVE STRUCTURE<br>KY1407 OVER I-65               | 1.00         | LS    |           | \$ |                |
| 1180 | 02731      |     | REMOVE STRUCTURE<br>I-65 NB OVER RHUDES CREEK ROAD | 1.00         | LS    |           | \$ |                |
| 1190 | 02775      |     | ARROW PANEL                                        | 4.00         | EACH  |           | \$ |                |
| 1200 | 02898      |     | RELOCATE CRASH CUSHION                             | 25.00        | EACH  |           | \$ |                |
| 1210 | 03171      |     | CONCRETE BARRIER WALL TYPE 9T                      | 16,280.00    | LF    |           | \$ |                |
| 1220 | 03225      |     | TUBULAR MARKERS                                    | 156.00       | EACH  |           | \$ |                |
| 1230 | 06411      |     | STEEL POST TYPE 2                                  | 5,300.00     | LF    |           | \$ |                |
| 1240 | 06511      |     | PAVE STRIPING-TEMP PAINT-6 IN                      | 669,475.00   | LF    |           | \$ |                |
| 1250 | 06514      |     | PAVE STRIPING-PERM PAINT-4 IN                      | 9,326.00     | LF    |           | \$ |                |
| 1260 | 06542      |     | PAVE STRIPING-THERMO-6 IN W                        | 149,987.00   | LF    |           | \$ |                |
| 1270 | 06543      |     | PAVE STRIPING-THERMO-6 IN Y                        | 100,949.00   | LF    |           | \$ |                |
| 1280 | 06546      |     | PAVE STRIPING-THERMO-12 IN W                       | 4,691.00     | LF    |           | \$ |                |
| 1290 | 06550      |     | PAVE STRIPING-TEMP REM TAPE-W                      | 4,000.00     | LF    |           | \$ |                |
| 1300 | 06551      |     | PAVE STRIPING-TEMP REM TAPE-Y                      | 4,000.00     | LF    |           | \$ |                |
| 1310 | 06600      |     | REMOVE PAVEMENT MARKER TYPE V                      | 1,238.00     | EACH  |           | \$ |                |
| 1320 | 08100      |     | CONCRETE-CLASS A                                   | 158.00       | CUYD  |           | \$ |                |
| 1330 | 08150      |     | STEEL REINFORCEMENT                                | 1,663.00     | LB    |           | \$ |                |
| 1340 | 08902      |     | CRASH CUSHION TY VI CLASS B TL3                    | 1.00         | EACH  |           | \$ |                |
| 1350 | 08903      |     | CRASH CUSHION TY VI CLASS BT TL3                   | 19.00        | EACH  |           | \$ |                |
| 1360 | 10020NS    |     | FUEL ADJUSTMENT                                    | 1,134,091.00 | DOLL  | \$1.00    | \$ | \$1,134,091.00 |
| 1370 | 10030NS    |     | ASPHALT ADJUSTMENT                                 | 1,819,637.00 | DOLL  | \$1.00    | \$ | \$1,819,637.00 |
| 1380 | 20209EP69  |     | GRANULAR PILE CORE                                 | 450.00       | CUYD  |           | \$ |                |
| 1390 | 20411ED    |     | LAW ENFORCEMENT OFFICER                            | 200.00       | HOURL |           | \$ |                |
| 1400 | 20415ES508 |     | CONC MED BAR TY 12C2(50)                           | 387.00       | LF    |           | \$ |                |
| 1410 | 20432ES112 |     | REMOVE CRASH CUSHION                               | 12.00        | EACH  |           | \$ |                |
| 1420 | 21370ED    |     | LONGITUDINAL SAW CUT- 6 IN                         | 97,923.00    | LF    |           | \$ |                |
| 1430 | 21597EN    |     | REMOVE PERF PIPE HEADWALL                          | 66.00        | EACH  |           | \$ |                |
| 1440 | 21802EN    |     | G/R STEEL W BEAM-S FACE (7 FT POST)                | 27,573.00    | LF    |           | \$ |                |
| 1450 | 22146EN    |     | CONCRETE PATCHING REPAIR                           | 800.00       | SQFT  |           | \$ |                |
| 1460 | 22664EN    |     | WATER BLASTING EXISTING STRIPE                     | 123,329.00   | LF    |           | \$ |                |
| 1470 | 23383EC    |     | REMOVE AND REINSTALL LIGHTS                        | 1.00         | LS    |           | \$ |                |
| 1480 | 24255EC    |     | REMOVE CABLE GUARDRAIL BARRIER<br>SYSTEM           | 33,826.00    | LF    |           | \$ |                |
| 1490 | 24277EC    |     | FLUSH SEDIMENT                                     | 1.00         | LS    |           | \$ |                |
| 1500 | 24489EC    |     | INLAID PAVEMENT MARKER                             | 9,900.00     | EACH  |           | \$ |                |
| 1510 | 24679ED    |     | PAVE MARK THERMO CHEVRON                           | 4,125.00     | SQFT  |           | \$ |                |
| 1520 | 24683ED    |     | PAVE MARKING-THERMO DOTTED LANE<br>EXTEN           | 1,321.00     | LF    |           | \$ |                |

Section: 0003 - DRAINAGE

| LINE | BID CODE | ALT | DESCRIPTION                  | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|------------------------------|----------|------|-----------|----|--------|
| 1530 | 00071    |     | CRUSHED AGGREGATE SIZE NO 57 | 105.00   | TON  |           | \$ |        |
| 1540 | 00078    |     | CRUSHED AGGREGATE SIZE NO 2  | 298.00   | TON  |           | \$ |        |
| 1550 | 00461    |     | CULVERT PIPE-15 IN           | 4.00     | LF   |           | \$ |        |
| 1560 | 00462    |     | CULVERT PIPE-18 IN           | 318.20   | LF   |           | \$ |        |

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| LINE | BID CODE | ALT | DESCRIPTION                                                     | QUANTITY   | UNIT | UNIT PRIC | FP | AMOUNT     |
|------|----------|-----|-----------------------------------------------------------------|------------|------|-----------|----|------------|
| 1570 | 00464    |     | CULVERT PIPE-24 IN                                              | 4.00       | LF   |           | \$ |            |
| 1580 | 00468    |     | CULVERT PIPE-36 IN                                              | 40.00      | LF   |           | \$ |            |
| 1590 | 00522    |     | STORM SEWER PIPE-18 IN                                          | 7,283.60   | LF   |           | \$ |            |
| 1600 | 00524    |     | STORM SEWER PIPE-24 IN                                          | 402.20     | LF   |           | \$ |            |
| 1610 | 01000    |     | PERFORATED PIPE-4 IN                                            | 89,679.00  | LF   |           | \$ |            |
| 1620 | 01001    |     | PERFORATED PIPE-6 IN                                            | 46,311.00  | LF   |           | \$ |            |
| 1630 | 01010    |     | NON-PERFORATED PIPE-4 IN                                        | 6,424.00   | LF   |           | \$ |            |
| 1640 | 01011    |     | NON-PERFORATED PIPE-6 IN                                        | 1,156.00   | LF   |           | \$ |            |
| 1650 | 01015    |     | INSPECT & CERTIFY EDGE DRAIN SYSTEM                             | 1.00       | LS   |           | \$ |            |
| 1660 | 01020    |     | PERF PIPE HEADWALL TY 1-4 IN                                    | 55.00      | EACH |           | \$ |            |
| 1670 | 01024    |     | PERF PIPE HEADWALL TY 2-4 IN                                    | 1.00       | EACH |           | \$ |            |
| 1680 | 01028    |     | PERF PIPE HEADWALL TY 3-4 IN                                    | 104.00     | EACH |           | \$ |            |
| 1690 | 01032    |     | PERF PIPE HEADWALL TY 4-4 IN                                    | 138.00     | EACH |           | \$ |            |
| 1700 | 01204    |     | PIPE CULVERT HEADWALL-18 IN                                     | 9.00       | EACH |           | \$ |            |
| 1710 | 01208    |     | PIPE CULVERT HEADWALL-24 IN                                     | 1.00       | EACH |           | \$ |            |
| 1720 | 01212    |     | PIPE CULVERT HEADWALL-36 IN                                     | 1.00       | EACH |           | \$ |            |
| 1730 | 01433    |     | SLOPED BOX OUTLET TYPE 1-18 IN                                  | 2.00       | EACH |           | \$ |            |
| 1740 | 01450    |     | S & F BOX INLET-OUTLET-18 IN                                    | 10.00      | EACH |           | \$ |            |
| 1750 | 01453    |     | S & F BOX INLET-OUTLET-36 IN                                    | 1.00       | EACH |           | \$ |            |
| 1760 | 01480    |     | CURB BOX INLET TYPE B                                           | 10.00      | EACH |           | \$ |            |
| 1770 | 01502    |     | DROP BOX INLET TYPE 5A                                          | 2.00       | EACH |           | \$ |            |
| 1780 | 01511    |     | DROP BOX INLET TYPE 5D                                          | 1.00       | EACH |           | \$ |            |
| 1790 | 01517    |     | DROP BOX INLET TYPE 5F                                          | 2.00       | EACH |           | \$ |            |
| 1800 | 01691    |     | FLUME INLET TYPE 2                                              | 22.00      | EACH |           | \$ |            |
| 1810 | 01719    |     | ADJUST INLET                                                    | 3.00       | EACH |           | \$ |            |
| 1820 | 02483    |     | CHANNEL LINING CLASS II                                         | 4,011.00   | TON  |           | \$ |            |
| 1830 | 02484    |     | CHANNEL LINING CLASS III                                        | 2,584.00   | TON  |           | \$ |            |
| 1840 | 02596    |     | FABRIC-GEOTEXTILE TYPE I                                        | 5,600.00   | SQYD |           | \$ |            |
| 1850 | 02598    |     | FABRIC-GEOTEXTILE TYPE III                                      | 5,689.00   | SQYD |           | \$ |            |
| 1860 | 02599    |     | FABRIC-GEOTEXTILE TYPE IV                                       | 2,105.00   | SQYD |           | \$ |            |
| 1870 | 02600    |     | FABRIC GEOTEXTILE TY IV FOR PIPE                                | 4,308.00   | SQYD | \$2.00    | \$ | \$8,616.00 |
| 1880 | 02701    |     | TEMP SILT FENCE                                                 | 25,513.00  | LF   |           | \$ |            |
| 1890 | 02703    |     | SILT TRAP TYPE A                                                | 189.00     | EACH |           | \$ |            |
| 1900 | 02704    |     | SILT TRAP TYPE B                                                | 189.00     | EACH |           | \$ |            |
| 1910 | 02705    |     | SILT TRAP TYPE C                                                | 189.00     | EACH |           | \$ |            |
| 1920 | 02706    |     | CLEAN SILT TRAP TYPE A                                          | 1,701.00   | EACH |           | \$ |            |
| 1930 | 02707    |     | CLEAN SILT TRAP TYPE B                                          | 1,701.00   | EACH |           | \$ |            |
| 1940 | 02708    |     | CLEAN SILT TRAP TYPE C                                          | 1,701.00   | EACH |           | \$ |            |
| 1950 | 02709    |     | CLEAN TEMP SILT FENCE                                           | 25,513.00  | LF   |           | \$ |            |
| 1960 | 03262    |     | CLEAN PIPE STRUCTURE                                            | 31.00      | EACH |           | \$ |            |
| 1970 | 05950    |     | EROSION CONTROL BLANKET                                         | 59,303.00  | SQYD |           | \$ |            |
| 1980 | 05952    |     | TEMP MULCH                                                      | 916,747.00 | SQYD |           | \$ |            |
| 1990 | 05953    |     | TEMP SEEDING AND PROTECTION                                     | 916,747.00 | SQYD |           | \$ |            |
| 2000 | 05963    |     | INITIAL FERTILIZER                                              | 30.00      | TON  |           | \$ |            |
| 2010 | 05964    |     | 20-10-10 FERTILIZER                                             | 48.00      | TON  |           | \$ |            |
| 2020 | 05985    |     | SEEDING AND PROTECTION                                          | 916,747.00 | SQYD |           | \$ |            |
| 2030 | 05989    |     | SPECIAL SEEDING CROWN VETCH                                     | 107,818.00 | SQYD |           | \$ |            |
| 2040 | 05992    |     | AGRICULTURAL LIMESTONE                                          | 569.00     | TON  |           | \$ |            |
| 2050 | 20911ED  |     | HIGH SLUMP 3000 PSI GROUT<br>FOR CHANNEL LINING CLASS III (MOD) | 111.00     | CUYD |           | \$ |            |
| 2060 | 21601NN  |     | CONC MED BAR BOX INLET TY 12A2-50                               | 2.00       | EACH |           | \$ |            |

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| LINE | BID CODE   | ALT | DESCRIPTION                              | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|------------|-----|------------------------------------------|----------|------|-----------|----|--------|
| 2070 | 21602NN    |     | CONC MED BARR BOX INLET TY 12B2-50       | 123.00   | EACH |           | \$ |        |
| 2080 | 21799EN    |     | BORE AND JACK PIPE-24 IN                 | 250.80   | LF   |           | \$ |        |
| 2090 | 22620NN    |     | CONC MED BARR BOX INLET TY 12A1-50       | 2.00     | EACH |           | \$ |        |
| 2100 | 23126EN    |     | BORE AND JACK PIPE-18 IN                 | 161.20   | LF   |           | \$ |        |
| 2110 | 23131ER701 |     | PIPELINE VIDEO INSPECTION                | 8,052.00 | LF   |           | \$ |        |
| 2120 | 23274EN11F |     | TURF REINFORCEMENT MAT 1                 | 245.00   | SQYD |           | \$ |        |
| 2130 | 23545EC    |     | CLEAN ENHANCED SILT TRAP                 | 27.00    | EACH |           | \$ |        |
| 2140 | 23610NC    |     | CORED HOLE DRAINAGE BOX CON              | 2.00     | EACH |           | \$ |        |
| 2150 | 23611NN    |     | CONC MED BAR BOX INLET TY 12B1-50        | 13.00    | EACH |           | \$ |        |
| 2160 | 23864EC    |     | CHANNEL LINING CLASS III-MOD             | 333.00   | TON  |           | \$ |        |
| 2170 | 23978EC    |     | CONC MED BARR BOX INLET TY 12B2-50 (MOD) | 6.00     | EACH |           | \$ |        |
| 2180 | 24583EC    |     | HDPE PIPE LINER<br>18 INCH               | 899.00   | LF   |           | \$ |        |
| 2190 | 24583EC    |     | HDPE PIPE LINER<br>24 INCH               | 827.00   | LF   |           | \$ |        |
| 2200 | 24634EC    |     | BEND<br>PREFAB BEND 25 DEG-18 IN         | 2.00     | EACH |           | \$ |        |

Section: 0004 - BRIDGE-27156

| LINE | BID CODE | ALT | DESCRIPTION                      | QUANTITY   | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------------------------|------------|------|-----------|----|--------|
| 2210 | 02231    |     | STRUCTURE GRANULAR BACKFILL      | 220.00     | CUYD |           | \$ |        |
| 2220 | 02599    |     | FABRIC-GEOTEXTILE TYPE IV        | 310.00     | SQYD |           | \$ |        |
| 2230 | 02998    |     | MASONRY COATING                  | 1,513.00   | SQYD |           | \$ |        |
| 2240 | 03299    |     | ARMORED EDGE FOR CONCRETE        | 64.00      | LF   |           | \$ |        |
| 2250 | 04797    |     | CONDUIT-3 IN                     | 597.00     | LF   |           | \$ |        |
| 2260 | 08001    |     | STRUCTURE EXCAVATION-COMMON      | 543.00     | CUYD |           | \$ |        |
| 2270 | 08020    |     | CRUSHED AGGREGATE SLOPE PROT     | 230.00     | TON  |           | \$ |        |
| 2280 | 08033    |     | TEST PILES                       | 178.00     | LF   |           | \$ |        |
| 2290 | 08046    |     | PILES-STEEL HP12X53              | 480.00     | LF   |           | \$ |        |
| 2300 | 08051    |     | PILES-STEEL HP14X89              | 920.00     | LF   |           | \$ |        |
| 2310 | 08094    |     | PILE POINTS-12 IN                | 32.00      | EACH |           | \$ |        |
| 2320 | 08095    |     | PILE POINTS-14 IN                | 28.00      | EACH |           | \$ |        |
| 2330 | 08100    |     | CONCRETE-CLASS A                 | 216.00     | CUYD |           | \$ |        |
| 2340 | 08104    |     | CONCRETE-CLASS AA                | 362.00     | CUYD |           | \$ |        |
| 2350 | 08150    |     | STEEL REINFORCEMENT              | 41,412.00  | LB   |           | \$ |        |
| 2360 | 08151    |     | STEEL REINFORCEMENT-EPOXY COATED | 131,711.00 | LB   |           | \$ |        |
| 2370 | 08634    |     | PRECAST PC I BEAM TYPE 4         | 1,135.00   | LF   |           | \$ |        |
| 2380 | 21532ED  |     | RAIL SYSTEM TYPE III             | 577.00     | LF   |           | \$ |        |

Section: 0005 - BRIDGE-27155

| LINE | BID CODE | ALT | DESCRIPTION                 | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|-----------------------------|----------|------|-----------|----|--------|
| 2390 | 02231    |     | STRUCTURE GRANULAR BACKFILL | 778.00   | CUYD |           | \$ |        |
| 2400 | 02599    |     | FABRIC-GEOTEXTILE TYPE IV   | 768.00   | SQYD |           | \$ |        |
| 2410 | 02998    |     | MASONRY COATING             | 1,707.00 | SQYD |           | \$ |        |
| 2420 | 03299    |     | ARMORED EDGE FOR CONCRETE   | 262.00   | LF   |           | \$ |        |
| 2430 | 08001    |     | STRUCTURE EXCAVATION-COMMON | 2,977.00 | CUYD |           | \$ |        |

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| LINE | BID CODE | ALT | DESCRIPTION                      | QUANTITY   | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------------------------|------------|------|-----------|----|--------|
| 2440 | 08002    |     | STRUCTURE EXCAV-SOLID ROCK       | 548.00     | CUYD |           | \$ |        |
| 2450 | 08019    |     | CYCLOPEAN STONE RIP RAP          | 3,409.00   | TON  |           | \$ |        |
| 2460 | 08033    |     | TEST PILES                       | 61.00      | LF   |           | \$ |        |
| 2470 | 08051    |     | PILES-STEEL HP14X89              | 1,045.00   | LF   |           | \$ |        |
| 2480 | 08095    |     | PILE POINTS-14 IN                | 40.00      | EACH |           | \$ |        |
| 2490 | 08100    |     | CONCRETE-CLASS A                 | 1,208.00   | CUYD |           | \$ |        |
| 2500 | 08104    |     | CONCRETE-CLASS AA                | 1,451.00   | CUYD |           | \$ |        |
| 2510 | 08130    |     | MECHANICAL REINF COUPLER #5      | 60.00      | EACH |           | \$ |        |
| 2520 | 08131    |     | MECHANICAL REINF COUPLER #6      | 16.00      | EACH |           | \$ |        |
| 2530 | 08132    |     | MECHANICAL REINF COUPLER #7      | 240.00     | EACH |           | \$ |        |
| 2540 | 08133    |     | MECHANICAL REINF COUPLER #8      | 112.00     | EACH |           | \$ |        |
| 2550 | 08150    |     | STEEL REINFORCEMENT              | 205,304.00 | LB   |           | \$ |        |
| 2560 | 08151    |     | STEEL REINFORCEMENT-EPOXY COATED | 468,275.00 | LB   |           | \$ |        |
| 2570 | 21532ED  |     | RAIL SYSTEM TYPE III             | 663.00     | LF   |           | \$ |        |
| 2580 | 24539EC  |     | PPC I-BEAM HN60-49               | 4,275.00   | LF   |           | \$ |        |

Section: 0006 - BRIDGE-27152

| LINE | BID CODE | ALT | DESCRIPTION                              | QUANTITY  | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|------------------------------------------|-----------|------|-----------|----|--------|
| 2590 | 02231    |     | STRUCTURE GRANULAR BACKFILL              | 1,797.00  | CUYD |           | \$ |        |
| 2600 | 02599    |     | FABRIC-GEOTEXTILE TYPE IV                | 1,345.00  | SQYD |           | \$ |        |
| 2610 | 02998    |     | MASONRY COATING                          | 651.00    | SQYD |           | \$ |        |
| 2620 | 03299    |     | ARMORED EDGE FOR CONCRETE                | 260.00    | LF   |           | \$ |        |
| 2630 | 08001    |     | STRUCTURE EXCAVATION-COMMON              | 1,554.00  | CUYD |           | \$ |        |
| 2640 | 08020    |     | CRUSHED AGGREGATE SLOPE PROT             | 350.00    | TON  |           | \$ |        |
| 2650 | 08033    |     | TEST PILES                               | 115.00    | LF   |           | \$ |        |
| 2660 | 08039    |     | PRE-DRILLING FOR PILES                   | 46.00     | LF   |           | \$ |        |
| 2670 | 08046    |     | PILES-STEEL HP12X53                      | 4,913.00  | LF   |           | \$ |        |
| 2680 | 08094    |     | PILE POINTS-12 IN                        | 128.00    | EACH |           | \$ |        |
| 2690 | 08100    |     | CONCRETE-CLASS A                         | 810.00    | CUYD |           | \$ |        |
| 2700 | 08104    |     | CONCRETE-CLASS AA                        | 327.00    | CUYD |           | \$ |        |
| 2710 | 08140    |     | MECHANICAL REINF COUPLER #5 EPOXY COATED | 36.00     | EACH |           | \$ |        |
| 2720 | 08141    |     | MECHANICAL REINF COUPLER #6 EPOXY COATED | 436.00    | EACH |           | \$ |        |
| 2730 | 08150    |     | STEEL REINFORCEMENT                      | 58,842.00 | LB   |           | \$ |        |
| 2740 | 08151    |     | STEEL REINFORCEMENT-EPOXY COATED         | 75,343.00 | LB   |           | \$ |        |
| 2750 | 08671    |     | PRECAST PC BOX BEAM SB33                 | 1,398.00  | LF   |           | \$ |        |
| 2760 | 21532ED  |     | RAIL SYSTEM TYPE III                     | 159.00    | LF   |           | \$ |        |

Section: 0007 - BRIDGE-27154

| LINE | BID CODE | ALT | DESCRIPTION                 | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|-----------------------------|----------|------|-----------|----|--------|
| 2770 | 02231    |     | STRUCTURE GRANULAR BACKFILL | 220.00   | CUYD |           | \$ |        |
| 2780 | 02599    |     | FABRIC-GEOTEXTILE TYPE IV   | 309.00   | SQYD |           | \$ |        |
| 2790 | 02998    |     | MASONRY COATING             | 1,425.00 | SQYD |           | \$ |        |
| 2800 | 03299    |     | ARMORED EDGE FOR CONCRETE   | 64.00    | LF   |           | \$ |        |
| 2810 | 04797    |     | CONDUIT-3 IN                | 559.00   | LF   |           | \$ |        |

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| LINE | BID CODE | ALT | DESCRIPTION                      | QUANTITY   | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------------------------|------------|------|-----------|----|--------|
| 2820 | 08001    |     | STRUCTURE EXCAVATION-COMMON      | 480.00     | CUYD |           | \$ |        |
| 2830 | 08020    |     | CRUSHED AGGREGATE SLOPE PROT     | 220.00     | TON  |           | \$ |        |
| 2840 | 08033    |     | TEST PILES                       | 262.00     | LF   |           | \$ |        |
| 2850 | 08046    |     | PILES-STEEL HP12X53              | 2,050.00   | LF   |           | \$ |        |
| 2860 | 08094    |     | PILE POINTS-12 IN                | 54.00      | EACH |           | \$ |        |
| 2870 | 08100    |     | CONCRETE-CLASS A                 | 212.00     | CUYD |           | \$ |        |
| 2880 | 08104    |     | CONCRETE-CLASS AA                | 345.00     | CUYD |           | \$ |        |
| 2890 | 08150    |     | STEEL REINFORCEMENT              | 40,681.00  | LB   |           | \$ |        |
| 2900 | 08151    |     | STEEL REINFORCEMENT-EPOXY COATED | 110,510.00 | LB   |           | \$ |        |
| 2910 | 08634    |     | PRECAST PC I BEAM TYPE 4         | 1,059.00   | LF   |           | \$ |        |
| 2920 | 21532ED  |     | RAIL SYSTEM TYPE III             | 539.00     | LF   |           | \$ |        |

Section: 0008 - BRIDGE- 047B00127R AND 047B00127L

| LINE | BID CODE | ALT | DESCRIPTION                              | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|------------------------------------------|----------|------|-----------|----|--------|
| 2930 | 02650    |     | MAINTAIN & CONTROL TRAFFIC               | 1.00     | LS   |           | \$ |        |
| 2940 | 02998    |     | MASONRY COATING                          | 724.00   | SQYD |           | \$ |        |
| 2950 | 03297    |     | EXPAN JOINT REPLACE 3 IN                 | 216.70   | LF   |           | \$ |        |
| 2960 | 08106    |     | CONCRETE-CLASS M 1                       | 55.60    | CUYD |           | \$ |        |
| 2970 | 08150    |     | STEEL REINFORCEMENT                      | 5,472.00 | LB   |           | \$ |        |
| 2980 | 08435    |     | JACK & SUPPORT BRIDGE SPAN               | 1.00     | LS   |           | \$ |        |
| 2990 | 21969NN  |     | BEARING REPLACEMENT                      | 12.00    | EACH |           | \$ |        |
| 3000 | 22146EN  |     | CONCRETE PATCHING REPAIR                 | 473.00   | SQFT |           | \$ |        |
| 3010 | 23949EC  |     | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00     | LS   |           | \$ |        |

Section: 0009 - SIGNING

| LINE | BID CODE | ALT | DESCRIPTION                    | QUANTITY  | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|--------------------------------|-----------|------|-----------|----|--------|
| 3020 | 04903    |     | REFERENCE MARKER               | 92.00     | EACH |           | \$ |        |
| 3030 | 04904    |     | BARRIER MOUNTING BRACKET       | 46.00     | EACH |           | \$ |        |
| 3040 | 06203    |     | MODIFY PANEL SIGNS             | 4.00      | EACH |           | \$ |        |
| 3050 | 06400    |     | GMSS GALV STEEL TYPE A         | 16,154.00 | LB   |           | \$ |        |
| 3060 | 06401    |     | FLEXIBLE DELINEATOR POST-M/W   | 90.00     | EACH |           | \$ |        |
| 3070 | 06405    |     | SBM ALUMINUM PANEL SIGNS       | 5,828.00  | SQFT |           | \$ |        |
| 3080 | 06406    |     | SBM ALUM SHEET SIGNS .080 IN   | 18.00     | SQFT |           | \$ |        |
| 3090 | 06407    |     | SBM ALUM SHEET SIGNS .125 IN   | 606.00    | SQFT |           | \$ |        |
| 3100 | 06410    |     | STEEL POST TYPE 1              | 957.00    | LF   |           | \$ |        |
| 3110 | 06412    |     | STEEL POST MILE MARKERS        | 18.00     | EACH |           | \$ |        |
| 3120 | 06441    |     | GMSS GALV STEEL TYPE C         | 16,022.00 | LB   |           | \$ |        |
| 3130 | 06448    |     | SIGN BRIDGE ATTACHMENT BRACKET | 5.00      | EACH |           | \$ |        |
| 3140 | 06449    |     | REM OVERHEAD SIGN SUPPORT STR  | 2.00      | EACH |           | \$ |        |
| 3150 | 06450    |     | REM OVERHEAD STRUC CONC BASE   | 3.00      | EACH |           | \$ |        |
| 3160 | 06451    |     | REMOVE SIGN SUPPORT BEAM       | 54.00     | EACH |           | \$ |        |
| 3170 | 06453    |     | OSS ALUMINUM 95 FT TRUSS       | 1.00      | EACH |           | \$ |        |
| 3180 | 06490    |     | CLASS A CONCRETE FOR SIGNS     | 128.00    | CUYD |           | \$ |        |
| 3190 | 06491    |     | STEEL REINFORCEMENT FOR SIGNS  | 5,537.00  | LB   |           | \$ |        |
| 3200 | 20418ED  |     | REMOVE & RELOCATE SIGNS        | 12.00     | EACH |           | \$ |        |

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| LINE | BID CODE | ALT | DESCRIPTION                      | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------------------------|----------|------|-----------|----|--------|
| 3210 | 20419ND  |     | ROADWAY CROSS SECTION            | 26.00    | EACH |           | \$ |        |
| 3220 | 21373ND  |     | REMOVE SIGN                      | 34.00    | EACH |           | \$ |        |
| 3230 | 21596ND  |     | GMSS TYPE D                      | 12.00    | EACH |           | \$ |        |
| 3240 | 23639ED  |     | REM SIGN BRIDGE MOUNT ATTACHMENT | 6.00     | EACH |           | \$ |        |
| 3250 | 24631EC  |     | BARCODE SIGN INVENTORY           | 29.00    | EACH |           | \$ |        |

Section: 0010 - LIGHTING- WKP

| LINE | BID CODE   | ALT | DESCRIPTION                    | QUANTITY  | UNIT | UNIT PRIC | FP | AMOUNT |
|------|------------|-----|--------------------------------|-----------|------|-----------|----|--------|
| 0260 | 04714      |     | POLE 120 FT MTG HT HIGH MAST   | 21.00     | EACH |           | \$ |        |
| 0270 | 04761      |     | LIGHTING CONTROL EQUIPMENT     | 3.00      | EACH |           | \$ |        |
| 0280 | 04797      |     | CONDUIT-3 IN                   | 3,300.00  | LF   |           | \$ |        |
| 0290 | 04800      |     | MARKER                         | 39.00     | EACH |           | \$ |        |
| 0300 | 04820      |     | TRENCHING AND BACKFILLING      | 18,000.00 | LF   |           | \$ |        |
| 0310 | 04860      |     | CABLE-NO. 8/3C DUCTED          | 11,000.00 | LF   |           | \$ |        |
| 0320 | 04861      |     | CABLE-NO. 6/3C DUCTED          | 19,500.00 | LF   |           | \$ |        |
| 0330 | 04862      |     | CABLE-NO. 4/3C DUCTED          | 21,500.00 | LF   |           | \$ |        |
| 0340 | 04940      |     | REMOVE LIGHTING                | 1.00      | LS   |           | \$ |        |
| 0350 | 20391NS835 |     | ELECTRICAL JUNCTION BOX TYPE A | 16.00     | EACH |           | \$ |        |
| 0360 | 20392NS835 |     | ELECTRICAL JUNCTION BOX TYPE C | 12.00     | EACH |           | \$ |        |
| 0370 | 20410ED    |     | MAINTAIN LIGHTING              | 1.00      | LS   |           | \$ |        |
| 0380 | 21543EN    |     | BORE AND JACK CONDUIT          | 2,400.00  | LF   |           | \$ |        |
| 0390 | 23161EN    |     | POLE BASE-HIGH MAST            | 187.00    | CUYD |           | \$ |        |
| 0400 | 24749EC    |     | HIGH MAST LED LUMINAIRE        | 124.00    | EACH |           | \$ |        |

Section: 0011 - LIGHTING- KY 313

| LINE | BID CODE   | ALT | DESCRIPTION                    | QUANTITY  | UNIT | UNIT PRIC | FP | AMOUNT |
|------|------------|-----|--------------------------------|-----------|------|-----------|----|--------|
| 0410 | 04714      |     | POLE 120 FT MTG HT HIGH MAST   | 13.00     | EACH |           | \$ |        |
| 0420 | 04761      |     | LIGHTING CONTROL EQUIPMENT     | 2.00      | EACH |           | \$ |        |
| 0430 | 04797      |     | CONDUIT-3 IN                   | 2,011.00  | LF   |           | \$ |        |
| 0440 | 04800      |     | MARKER                         | 34.00     | EACH |           | \$ |        |
| 0450 | 04820      |     | TRENCHING AND BACKFILLING      | 17,360.00 | LF   |           | \$ |        |
| 0460 | 04860      |     | CABLE-NO. 8/3C DUCTED          | 9,350.00  | LF   |           | \$ |        |
| 0470 | 04861      |     | CABLE-NO. 6/3C DUCTED          | 9,100.00  | LF   |           | \$ |        |
| 0480 | 04862      |     | CABLE-NO. 4/3C DUCTED          | 9,500.00  | LF   |           | \$ |        |
| 0490 | 20391NS835 |     | ELECTRICAL JUNCTION BOX TYPE A | 6.00      | EACH |           | \$ |        |
| 0500 | 20392NS835 |     | ELECTRICAL JUNCTION BOX TYPE C | 6.00      | EACH |           | \$ |        |
| 0510 | 21543EN    |     | BORE AND JACK CONDUIT          | 2,011.00  | LF   |           | \$ |        |
| 0520 | 23161EN    |     | POLE BASE-HIGH MAST            | 116.00    | CUYD |           | \$ |        |
| 0530 | 24749EC    |     | HIGH MAST LED LUMINAIRE        | 78.00     | EACH |           | \$ |        |

Section: 0012 - TRAINEES

| LINE | BID CODE | ALT | DESCRIPTION                                         | QUANTITY | UNIT  | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|-----------------------------------------------------|----------|-------|-----------|----|--------|
| 0540 | 02742    |     | TRAINEE PAYMENT REIMBURSEMENT<br>1-GROUP 1 OPERATOR | 1,600.00 | HOURL |           | \$ |        |

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| LINE | BID CODE | ALT | DESCRIPTION                                                   | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|---------------------------------------------------------------|----------|------|-----------|----|--------|
| 0550 | 02742    |     | TRAINEE PAYMENT REIMBURSEMENT<br>1 - GROUP 2, 3 OR 4 OPERATOR | 2,800.00 | HOUR |           | \$ |        |
| 0560 | 02742    |     | TRAINEE PAYMENT REIMBURSEMENT<br>1 CEMENT MASON               | 2,400.00 | HOUR |           | \$ |        |
| 0570 | 02742    |     | TRAINEE PAYMENT REIMBURSEMENT<br>1 - CEMENT MASON             | 2,400.00 | HOUR |           | \$ |        |
| 0580 | 02742    |     | TRAINEE PAYMENT REIMBURSEMENT<br>1-GROUP 2, 3 OR 4 OPERATOR   | 1,400.00 | HOUR |           | \$ |        |

Section: 0013 - DEMOBILIZATION &/OR MOBILIZATION

| LINE | BID CODE | ALT | DESCRIPTION    | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------|----------|------|-----------|----|--------|
| 0590 | 02568    |     | MOBILIZATION   | 1.00     | LS   |           | \$ |        |
| 0600 | 02569    |     | DEMOBILIZATION | 1.00     | LS   |           | \$ |        |