

CALL NO. 100

CONTRACT ID. 114017

LOGAN COUNTY

FED/STATE PROJECT NUMBER HSIP 9010 (054)

DESCRIPTION HIGHLAND LICK ROAD (KY 178)

WORK TYPE GRADE & DRAIN LESS THAT MILLION CY

PRIMARY COMPLETION DATE 4/15/2012

LETTING DATE: September 23, 2011

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME September 23, 2011. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

DBE CERTIFICATION REQUIRED - 6.20%

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

TABLE OF CONTENTS

PART I SCOPE OF WORK

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
- CONTRACT NOTES
- FEDERAL CONTRACT NOTES
- ASPHALT MIXTURE
- DGA BASE
- AGGREGATE FOR MAILBOX TURNOUTS
- SPECIAL NOTE(S) APPLICABLE TO PROJECT
- WASTE AND BORROWED SITES
- COORDINATION OF WORK WITH OTHER CONTRACTS
- GUARDRAIL
- BRIDGE GUARDRAIL INSTALLATION
- TRAFFIC CONTROL PLAN
- RIGHT OF WAY NOTES
- UTILITY CLEARANCE
- SKETCH MAP(S)
- SUMMARY SHEET(S)
- TYPICAL SECTION(S)
- DETAIL SHEET(S)
- GUARDRAIL ON BRIDGE, CASE I

PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATIONS
- STANDARD DRAWINGS THAT APPLY
- STANDARD DRAWINGS-HEADWALL SUPP THAT APPLY
- DELINEATORS FOR GUARDRAIL
- CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS
- CONCRETE ENTRANCE PAVEMENT AND SIDEWALK

PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- FEDERAL-AID CONSTRUCTION CONTRACTS FHWA 1273
- NONDISCRIMINATION OF EMPLOYEES
- EXECUTIVE BRANCH CODE OF ETHICS
- PROJECT WAGE RATES
- NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EEO

PART IV INSURANCE

PART V BID ITEMS

PART I SCOPE OF WORK

LOGAN COUNTY HSIP 9010 (054)

Contract ID: 114017 Page 4 of 154

CONTRACT ID - 114017

ADMINISTRATIVE DISTRICT - 03

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - LOGAN

PCN - 0307101781101

HSIP 9010 (054)

HIGHLAND LICK ROAD (KY 178) TODD COUNTY LINE (MP 0.000) EXTENDING EAST TO US 68 (MP 8.

206), A DISTANCE OF 8.21 MILES. GRADE & DRAIN.

GEOGRAPHIC COORDINATES LATITUDE 36^51'21" LONGITUDE 86^59'25"

AVERAGE DAILY TRAFFIC - 2600

AVERAGE MAINLINE WIDTH - 20.0 FEET

COMPLETION DATE(S):

COMPLETION DATE - April 15, 2012 APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

04/28/2011

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.

FHWA 1273

Contrary to Paragraph VI of FHWA 1273, contractors on National Highway System (NHS) Projects of \$1 million or more are no longer required to submit Form FHWA-47.

Contrary to Form FHWA-1273, Section V, paragraph 2.b personal addresses and full social security numbers (SSN) shall not be included on weekly payroll submissions by contractors and subcontractors. Contractors and subcontractors shall include the last four digits of the employee's SSN as an individually identifying number for each employee on the weekly payroll submittal. This in no way changes the requirement that contractors and subcontractors maintain complete SSN and home addresses for employees and provide this information upon request of KYTC, FHWA, and the U.S. Department of Labor.

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 READ PUBLICLY. 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 printed bid packet. 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

All bidders are encouraged to submit their General DBE Participation Plan with their bid on the official form. Lowest responsive bidders whose bid packages include DBE Participation Plans may be awarded the contract at the next Awards Committee meeting provided that the DBE goal is met. 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;
- 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.

The apparent low bidder who does not submit a General DBE Participation Plan with the bid shall submit it within 10 calendar days after receipt of notification that they are the apparent low bidder. The project will not be considered for award prior to submission and approval of the apparent low bidder's DBE Participation Plan.

Detailed DBE Participation Plan forms will be included in the Contractor Package presented to successful bidders following the awarding of the project. The Detailed DBE Participation Plan must be completed and returned to Contract Procurement in accordance with Cabinet policy. A copy of the blank estimate will be included with the Detailed DBE Participation Plan to list sequence items by PCN (Project Control Number).

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

CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS

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

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

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

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

- 9. Whether the bidder specifically negotiated with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be subcontracted includes potential DBE participation;
- 10. Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal; and
- 11. Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.

FAILURE TO MEET GOOD FAITH REQUIREMENT

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

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

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

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

SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT

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

- Disallow credit toward the DBE goal;
- Withholding progress payments;

- Withholding payment to the prime in an amount equal to the unmet portion of the contract goal; and/or
- Termination of the contract.

PROMPT PAYMENT

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

CONTRACTOR REPORTING

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to submit certified reports on monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal.

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/forms/DBEcheck.xls

Photocopied payments and completed form to be submitted to: Office of Civil Rights and Small Business Development 6th Floor West 200 Mero Street Frankfort, KY 40622

DEFAULT OR DECERTIFICATION OF THE DBE

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

06/29/2009

Date:			. Title:	DBE Participant Signature: *This form must be completed for each DBE participant	This form	
Date:			Title:	Prime Contractor's Signature:	Prir	
	ted toward Goal, this DBE	Total This DBE Total Bid % Credited toward	d the supplier cipal down and	**Note: 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	**Note: 60 priss a regular de business and i operate distrib	
	Total other Page					
Dollar Amount (based on DBE	DBE Unit Price **	Quantity to be Performed by DBE	Unit of Measure	Description of Participation Item	Item Number	Supplier 60% Y/N
				Itemized worked to be performed by DBE Company:	orked to be	temized w
	Other _	Engineering		Subcontractor Manufacturer	Supplier	
				Type of DBE Work: (all applicable)	3E Work: (al	Type of DI
			Federal Tax ID			
			City, State, Zip	0		
			Address			
			DBE Company Name		Prime Contractor	
		•		Designated DBE Goal %		
		Project Number:		Contract ID Number	.e.	Letting Date:
			'n,			C
06/13/2005			net	3 Kentucky Transportation Cabinet	1 of 3	Page

Contract ID: 114017 Page 15 of 154

KYTC DBE Payments

updated 2/28/08

Prime Contractor		Cont-ID			
DBE Co	ntractor	CHE	CHECK #		
PAYMENT DATE		Amount of Payment			
Use the section below to show multiple payments using the same check Cont-ID Amount Cont-ID Amount					
Cont-ID	Amount	CONT-1D	Amount		
Comments:					

attach copy of check here

Mail to:
Office of Civil Rights and Small Business Development
200 Mero Street
6th Floor West TCOB
Frankfort, KY 40622

LOGAN COUNTY HSIP 9010 (054)

Contract ID: 114017 Page 16 of 154

ASPHALT MIXTURE

The rate of application for all asphalt mixtures shall be estimated at 110 lbs/sy per inch of depth, unless otherwise noted.

DGA BASE

The rate of application for DGA Base shall be estimated at 115 lbs/sy per inch of depth.

AGGREGATE FOR MAILBOX TURNOUTS

Payment for necessary grading and/or shaping of existing shoulders and mailbox turnouts prior to placing of aggregate will not be measured for payment, but shall be incidental to Aggregate for Mail box Turnouts.

Compact Aggregate for Mailbox Turnouts as directed by the Engineer. Payment for compacting Aggregate for Mailbox Turnouts will not be measured for payment, but shall be incidental to Aggregate for Mail box Turnouts.

SPECIAL NOTES FOR PROJECT FD52 071 0178 000-009

Except as provided herein, perform all work in accordance with the Department's 2008 Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Maintaining and Controlling Traffic; (2) Site preparation; (3) Constructing culvert and pipe extensions; (4) Ditching and Shouldering; (5) Erosion Control; (6) Construct guardrail and end treatments; and (6) any other work as specified by this contract.

II. MATERIALS

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

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Culvert Pipe. Furnish pipe meeting the requirements of Section 810. Select pipe for Ph range Medium and minimum fill cover height according to Sepia Drawing 009 and Standard Drawing RDI-035-01. Use flowable fill for pipe backfill according to Section 601.03.03(B).
- **C. Erosion Control.** See Special Note for Erosion Control.
- **D.** Aggregate for mailbox turnouts. See Section 209.
- E. Guardrail. See Section 814.
- **F.** Concrete. See Section 608.
- **G. Steel reinforcement.** See Section 811.
- **H. Asphalt surface.** See Section 403.
- **I. DGA Base.** See Section 805.
- **J.** Safeloading. See Section 708.

- **K. Junction Box Mod.** See Small Drainage Structures, Section 710.
- III. CONSTRUCTION METHODS
 - A. Maintain and Control Traffic. See Traffic Control Plan.
 - **B.** Site Preparation. Be responsible for all site preparation, including but not limited to saw cutting and removing pavement; clearing and grubbing trees in excess of 1 foot in diameter (not covered under bid item for ditching and shouldering), staking, incidental excavation and backfilling; common and solid rock excavation; embankment in place; removal of obstructions, or any other items; foundation preparation; removing concrete masonry; restoration of pavements, slopes, and all disturbed areas; final dressing and cleanup; and disposal of materials. Limit clearing and grubbing to the absolute minimum required to construct drainage features. Perform all site preparation only as approved or directed by the Engineer.

Some rock excavation is anticipated along ditch lines, back slopes and adjacent to existing box culverts and pipes on this project. All rock excavation shall be incidental to the bid item Site Preparation. The known, but not limited to, locations include:

MP 4.710, 5.000, 5.075, 5.116, 5.600, 6.436, 6.732, 7.220, 7.370, 7.846, 8.066

C. Ditching and Shouldering. Perform ditching and shouldering according to Section 209 and the applicable Standard Drawings, Sepia Drawings, and Typical Sections provided. All excavation and/or embankment needed to achieve a typical section will be incidental to the bid item for Ditching and Shouldering. Final front and back slopes less than a 3:1 will be determined by the engineer.

Immediately prior to completion, clean all existing and new culvert and entrance pipes, clean and grade ditches to drain. Provide positive drainage of pavement, shoulders, slopes, and ditches at all times during and upon completion of construction.

Extra embankment needed to construct slopes according to the provided typical sections will be considered incidental to the bid item for Ditching and Shouldering. Backfill material for culvert and box culvert extensions will be considered incidental to the bid item for Ditching and Shouldering also.

Benching and compaction of the earth embankment for shoulders shall be performed according to the Section 206.03 and will be incidental to the bid item Ditching and Shouldering.

- **D. Ditching**. Perform ditching in accordance with Section 209. The bid item ditching is intended for ditches extending perpendicular to the roadway such as culvert and small streams and the approximate quantities are shown on the drainage summary. Relocating surface ditches along toe of fill slopes shall be incidental to the bid item for ditching and shouldering.
- **E. Erosion Control.** See Special Note for Erosion Control Plan.

- **F.** Removing Headwalls, Pipe and Excavation. Remove existing headwall and/or culvert and entrance pipe at the approximate location noted on the summary. The Engineer will determine the actual location at the time of construction. Saw cut the existing asphalt pavement, PCC pavement, and base to a neat edge prior to excavation and removal of the existing pipe. Obtain the Engineer's approval of trench width prior to cutting pavement. Excavate trench and remove pipe as directed or approved by the Engineer without disturbing existing underground utilities. Waste excavated materials and removed pipe at approved sites off the right of way obtained by the Contractor at no additional cost to the Department.
- **G. Remove Concrete Masonry.** Remove existing parapet headwall to 6 inches below proposed slope of new shoulder at the approximate location noted on the summary. The Engineer will determine the actual location at the time of construction. Waste removed material at approved sites off the right of way obtained by the Contractor at no additional cost to the Department.
- **H. Junction Box Mod**. See Small Drainage Structures, Section 710.
- I. Pipe. Construct culvert pipe at the location designated by the Engineer. The Engineer will establish final centerline, flow lines and skew to obtain the best fit of the existing ditches and channels. Construct pipe bedding according to Section 701 and the applicable Standard or Sepia Drawings. Use approved connecting bands or tapered sleeves as required. Pipe bands and tapered sleeves will be considered incidental to the bid item for the respective size culvert pipe. Prior to backfilling pipe, obtain the Engineer's approval of the pipe installation. Provide Positive drainage upon completion of pipe installation.
- **J. Pipe Backfill.** Backfill the pipe according to Section 701.03.06. Use DGA base to backfill areas where entrance pipe will be installed if existing entrance is graveled. Use 4" of Class 2 Asphalt Surface 0.38D PG64-22 on top of DGA base at locations of existing asphalt entrances.
- **K. Embankments.** Backfill pipe extensions and construct shoulder embankments as shown on the drawings or as directed by the Engineer. Provide positive drainage of slopes and median at all times during and upon completion of construction. Extra embankment needed to construct slopes according to the provided typical sections will be considered incidental to the bid item for Ditching and Shouldering. Backfill material for culvert and box culvert extensions will be considered incidental to the bid item for Ditching and Shouldering also.
- **L. Temporary Fence**. Temporary fence will be installed at locations determined by the department or engineer.
- **M. Remove and Replace Fence.** Remove and Install fence according to Section 722. Engineer will determine exact areas where fence will be removed and replaced and where the temporary fence will be installed.

- N. Final Dressing, Clean Up, Seeding and Protection, and Restoration. After all work is completed, remove all waste and debris from the job site. Grade all disturbed areas to blend with the adjacent roadway features and to provide a suitable seed bed. Perform Class A Final dressing on all disturbed areas. Seed and protect all disturbed earthen areas according to the Special Notes for Erosion Control Plan.
- O. Property Damage. Do not disturb or damage existing R-O-W markers unless directed by engineer. Be responsible for all damage to public and/or private property resulting from the work. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- **P. Disposal of Waste.** Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites off the right of way obtained by the Contractor at no additional cost to the Department (see Special Note for Waste and Borrow
- **Q. On-Site Inspection.** Before submitting a bid for the work, make a thorough inspection of the site and determine existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid to be evidence of this inspection having been made. The Department will not honor any claims for money or time extension resulting from site conditions.
- **R.** Right-of-Way Limits. At various locations it may be necessary to work beyond Right-of-Way limits. Unless there is a consent release from a property owner, limit work activities to the Right-of-Way and work and staging areas secured by the Contractor at no additional cost to the Department. The department will secure consent and releases from property owners through the engineer.
- **S. Caution.** The information in this proposal and shown on the plans and the type of work listed herein are approximate only and are not to be taken as an accurate evaluation of the materials and conditions to be encountered during construction; the bidder must draw his own conclusions. The Department does not give any guarantee as to the accuracy of the data and no claim for money or time extension will be considered if the conditions encountered are not in accordance with the information shown.
- **T. Control.** Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties.

Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his decision shall be final and binding upon the Contractor.

IV. METHOD OF MEASUREMENT

- **A. Maintain and Control Traffic.** See Traffic Control Plan.
- **B.** Site Preparation. The Department will measure Site Preparation as one lump sum.
- **C. Erosion Control.** See Special Note for Erosion Control.
- **D. Ditching and Shouldering**. The Department will measure the quantity as the gross length of the project measured in linear feet along the centerline of the roadway. The department will include in the quantity all work required on the road approaches within the limits of right-ofway. See Section 209.04.
- **E. Ditching**. The Department will measure according to Section 209.04.
- **F. Remove Concrete Masonry.** Contrary to Section 203.04.02, the Department will NOT measure for separate payment, but shall consider this work incidental to Site Preparation.
- **G. Temporary Fence.** The Department will measure the quantity, including gates, in linear feet along the top of the fence and gates before removal from outside to outside of end posts for each continuous run of fence.
- **H. Removing and Replacing Fence.** The Department will measure according to Section 722.04.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Site Preparation. The Department will make payment for Site Preparation as a lump sum upon completion of the bid item Erosion Control. This includes all materials, labor, and equipment as needed for site preparation.
- C. Culvert Pipe. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment and incidentals for furnishing and installing new culvert pipe, and furnishing and placing flowable fill. Pipe bands and tapered sleeves

will be considered incidental to the bid item for the respective size culvert pipe.

- **D. Erosion Control.** See Special Note for erosion Control.
- **E. Remove Concrete Masonry.** Contrary to Section 203.05, the Department will NOT make payment for completed and accepted quantities, but shall consider this work incidental to Site Preparation.
- **F. Ditching and Shouldering, and Ditching.** The Department will make payment for the completed and accepted quantities in linear feet.
- **G. Temporary Fence.** The Department will make payment for the completed work and accepted quantities of temporary fence as linear foot.
- **H. Removing and Replacing Fence.** The Department will make payment according to Section 722.05.

SPECIAL NOTE FOR STAKING

Perform Contractor Staking according to Section 201, except:

- 1. Contrary to Section 201, perform items 1-4 usually performed by the Engineer; and
- 2. Perform any and all other staking operations required to control and construct the work; and
- 3. Contrary to Section 201.04, the Department will not measure Staking for payment, but shall be incidental to Site Preparation.

SPECIAL NOTE FOR EROSION CONTROL

I. DESCRIPTION

Perform all erosion and water pollution control work in accordance with the Department's 2008 Standard Specifications, these notes, and current editions of applicable Supplemental Specifications, Special Provisions and Special Notes, and Standard and Sepia Drawings, and as directed by the Engineer. Section references are to the Standard Specifications. This work shall consist of:

(1) Developing and preparing a Best Management Practices Plan (BMP) tailored to suit the specific construction phasing for each site within the project; (2) Preparing the project site for construction, including locating, furnishing, installing, and maintaining temporary and/or permanent erosion and water pollution control measures as required by the BMP prior to beginning any earth disturbing activity on the project site; (3) Clearing and grubbing and removal of all obstructions as required for construction; (4) Removing all erosion control devices when no longer needed; (5) Restoring all disturbed areas as nearly as possible to their original condition; (6) Preparing seedbeds and permanently seeding all disturbed areas; and (7) Providing a Kentucky Erosion Prevention and Sediment Control Program (KEPSC) qualified inspector; and (8) Performing any other work to prevent erosion and/or water pollution as specified by this contract, required by the BMP, or as directed by the Engineer.

II. MATERIALS

Furnish materials in accordance with these notes, the Standard Specifications and current editions of applicable Supplemental Specifications, Special Provisions and Special Notes, and Standard and Sepia Drawings. Provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual. Unless directed otherwise by the Engineer, make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

III. CONSTRUCTION

Be advised, these Erosion Control Plan Notes do not constitute a BMP plan for the project. Prepare a specific BMP plan for the project jointly with the Engineer in accordance with Section 213 and the supplemental specifications. Provide a unique BMP at each project site using good engineering practices taking into account existing site conditions, the type of work to be performed, and the construction phasing, methods and techniques to be utilized to complete the work. Be responsible for all erosion prevention, sediment control, and water

pollution prevention measures required by the BMP for each site. Represent and warrant compliance with the Clean Water Act (33 USC Section 1251 et seq.), the 404 Permit, the 401 Water Quality Certification, and applicable state and local government agency laws, regulations, rules, specifications, and permits. Contrary to Section 105.05, in case of discrepancy between theses notes, the Standard Specifications, Supplemental Specifications, Special Provisions, Special Notes, Standard and Sepia Drawings, and such state and local government agency requirements, adhere to the most restrictive requirement.

Conduct operations in such a manner as to minimize the amount of disturbed ground during each phase of the construction and limit the haul roads to the minimum required to perform the work. Preserve existing vegetation not required to be removed by the work or the contract. Seed and/or mulch disturbed areas at the earliest opportunity. Use silt fence, silt traps, temporary ditches, brush barriers, erosion control blankets, sodding, channel lining, and other erosion control measures in a timely manner as required by the BMP and as directed or approved by the Engineer. Prevent sediment laden water from leaving the project, entering an existing drainage structure, or entering a steam.

Provide for erosion control measures to be in place and functioning prior to any earth disturbance within a drainage area. Compute the volume and size of silt control devices necessary to control sediment during each phase of construction. Remove sediment from silt traps before they become a maximum of ½ full. Maintain silt fence by removing accumulated trappings and/or replacing the geotextile fabric when it becomes clogged, damaged, or deteriorated, or when directed by the Engineer. Properly dispose of all materials trapped by erosion control devices at approved sites off the right of way obtained by the Contractor at no additional cost to the Department (See Special Note for Waste and Borrow).

As work progresses, add or remove erosion control measures as required by the BMP applicable to the Contractor's project phasing and construction methods and techniques. Update the volume calculations and modify the BMP as necessary throughout the duration of the project. Ensure that an updated BMP is kept on site and available for public inspection throughout the life of the project.

After all construction is complete, restore all disturbed areas in accordance with Section 212. completely remove all temporary erosion control devices not required as part of the permanent erosion control from the construction site. Prior to removal, obtain the Engineer's concurrence of items to be removed. Grade the remaining exposed earth (both on and off the Right of-Way) as nearly as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

IV. MEASUREMENT

- **A. Erosion Control Blanket.** If required by the BMP and if agreed to by the engineer, the Department will measure Erosion Control Blanket according to Section 212.04.07.
- **B. Sodding.** If required by the BMP and if agreed to by the engineer, the Department will measure Sodding according to Section 212.04.08.
- **C. Channel Lining.** If required by the BMP and if agreed to by the engineer, the Department will measure Channel Lining according to Sections 703.04.04-703.04.07.
- D. Erosion Control. Contrary to Sections 212.04 and 213.04, other than Erosion Control Blankets, Sodding, and Channel Lining, the Department will measure Erosion Control as one lump sum. The Department will not measure developing and updating, and maintaining a BMP plan for each site; providing a KEPSC qualified inspector; locating, furnishing, installing, inspecting, maintaining, and removing erosion and water pollution control items; Topsoil Furnished and Placed, Spreading Stockpiled Topsoil; Topdressing Fertilizer, Seeding and Protection, Special Seeding Crown Vetch, and Temporary Mulch; Sedimentation Basin and Clean Sedimentation Basin, Silt Trap Type "A" and Clean Silt Trap Type "A"; Silt Trap Type "B" and Clean Silt Trap Type "B"; Silt Trap Type "C" and Clean Silt Trap Type "C"; Temporary Silt Fence and Clean Temporary Silt Fence; Plants, Vines, Shrubs, and Trees; Gabion and Dumped Stone Deflectors and Riffle Structures; Boulders; and Temporary Ditches and clean Temporary Ditches; and all other erosion and water pollution control items required by the BMP or the Engineer, but shall be incidental to Erosion Control.

V. BASIS OF PAYMENT

- **A. Erosion Control Blanket.** If not listed as a bid item, but required by the BMP, the Department will pay for Erosion Control Blankets as Extra Work according to Sections 104.03 and 109.04.
- **B.** Sodding. If not listed as a bid item, but required by the BMP, the Department will pay for Sodding as Extra Work according to Sections 104.03 and 109.04.
- **C. Channel Lining.** If not listed as a bid item, but required by the BMP, the Department will pay for Channel Lining as Extra Work according to Sections 104.03 and 109.04.
- **D. Erosion Control.** Contrary to Sections 212.05 and 213.05, other than Erosion Control Blanket, Sodding, and Channel Lining, payment at the Contract lump sum

price for Erosion Control, shall be full compensation for all materials, equipment, labor and incidentals necessary to complete the erosion and water pollution control work as specified in these notes, Sections 212 and 213, the Supplemental Specifications, applicable Special Provisions and Special Notes, and Standard and Sepia Drawings, including but not limited to developing and updating, and maintaining a BMP plan for each site; providing a KEPSC qualified inspector; locating, furnishing, installing, inspecting, maintaining, and removing erosion and water pollution control items; Topsoil Furnished and Placed, Spreading Stockpiled Topsoil; Topdressing Fertilizer, Seeding and Protection, Special Seeding Crown Vetch, and Temporary Mulch; Sedimentation Basin and Clean Sedimentation Basin. Silt Trap Type "A" and Clean Silt Trap Type "A"; Silt Trap Type "B" and Clean Silt Trap Type "B"; Silt Trap Type "C" and Clean Silt Trap Type "C"; Temporary Silt Fence and Clean Temporary Silt Fence; Plants, Vines, Shrubs, and Trees; Gabion and Dumped Stone Deflectors and Riffle Structures; Boulders; and Temporary Ditches and clean Temporary Ditches; and all other erosion and water pollution control items required by the BMP or the Engineer.

SPECIAL PROVISION FOR WASTE AND BORROW SITES

The contractor is advised that it is their responsibility to gain U.S. Army Corp of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". "Waters of the United States" are defined as perennial or intermittent streams, ponds or wetlands. Ephemeral streams are also considered jurisdictional waters, and are typically dry except during rainfall, but have a defined drainage channel. Questions concerning any potential impacts to "Waters..." should be brought to the attention of the appropriate District Office for the Corps of Engineers for a determination, prior to disturbance. Any fees associated with obtaining approval from the U.S. Army Corp of Engineer or other appropriate regulatory agencies for waste and borrow sites is the responsibility of the contractor.

01/01/2009

COORDINATION OF WORK WITH OTHER CONTRACTS

The Contractor is advised there may be an active project adjacent to or within this project. The Engineer will coordinate the work of the Contractors. See Section 105.06.

1-3193 coordination.contractors 01/01/2009

SPECIAL NOTES FOR GUARDRAIL

I. DESCRIPTION

All work shall be performed in accordance with the Department's current Standard Specifications and applicable Special Provisions except as hereafter specified. Article references are to the Standard Specifications.

This work shall consist furnishing all equipment, labor, materials, and incidentals for the following: (1) Site Preparation; (2) Do temporary erosion control, temporary pollution control, seeding and protection, and clean up; (3) Furnishing and installing guardrail systems including 9 FT Posts; (4) Maintaining and control traffic; and (5) all other work specified in the Contract.

II. MATERIALS

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

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Seeding and Protection**. Use Seed Mixture No. 1.
- **C. Guardrail Posts**. Steel Guardrail posts are required. No alternate is allowed.

III. CONSTRUCTION METHODS

- **A. Maintain and Control Traffic.** See Traffic Control Plan.
- **B. Site Preparation.** Prepare the shoulder for the guardrail installation, which includes regrading, reshaping, adding and compacting of suitable materials on the existing shoulders to provide proper template or foundation for the guardrail; removal of all obstructions or any other items; excavation and embankment; temporary pollution and erosion control; disposal, of waste materials; final dressing and cleanup; and seeding and protection. All site preparation shall be as approved or directed by the engineer.
- C. Installation of Guardrail systems. Furnish guardrail systems as per Section 719. Steel Guardrail posts are required. No alternate is allowed. The shoulder width shall be a minimum of 2 Ft unless otherwise directed by the Engineer. Grade slopes and shoulders as per applicable guardrail standard drawings. Guardrail locations shown on summary and/or drawing is approximate only. The Engineer will determine the exact termini for guardrail installations at time of construction. Construct radii at entrances and road intersections as per applicable Standard Drawings.

The guardrail shall be erected to the lines and grades shown on current standard drawings or as designated by the Engineer. Unless otherwise directed, the guardrail shall be constructed 2' 3" above true theoretical shoulder elevations, or by any method approved by the Engineer which allows the construction of the guardrail to the true grade and prevents apparent sags.

When installing guardrail the blunt end shall NOT be left exposed where it would be hazardous to the public. When it is not practical to complete the construction of the rail or the permanent end treatments first, the Engineer may require a temporary end by connecting at least 25 feet of rail to the last post, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. If left overnight, a drum with bridge panel as detailed on Standard Drawings for Miscellaneous Traffic Control Devices shall be placed in advance of the guardrail end and maintained during use. The cost of the temporary end, including the barrier and panel, shall be included in the unit price for Guardrail - Single Face.

Furnish approximately 12 -9 ft (Extra Length) Steel guardrail posts. The Department will determine the exact location of the extra length posts at the time of guardrail construction.

- **D. Property Damage.** The Contractor will be responsible for all damage to public and/or private property resulting from his work.
- **E.** Coordination with Utility Companies. NOTICE: Utility locations are not shown in the proposal for this project and have not been located by the Department. Locate all underground, above ground and overhead utilities prior to beginning construction. The Contractor shall have the responsibility for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. The Contractor shall be responsible for repairing all utility damage that occurs as a result of his operations.
- **F. Right of Way Limits.** The exact limits of the Right-of-Way have not been established by the Department. The Contractor shall limit his activities to obvious Right-of-Way, permanent or temporary easements, and work areas secured by the Department through consent and release of the adjacent property owners. The Contractor shall be responsible for all encroachments onto private lands.
- **G. Disposal of Waste.** Dispose of all removed concrete, debris, and other waste as per Section 204.03.08. The Department will incur no cost to obtain the disposal sites. The Department will NOT make direct payment for disposal of waste and debris from the project.
- **H. Final Dressing, Seeding and Protection, and Clean Up.** Apply final dressing, class A to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with Seed Mixture No. 1. The Department will NOT make direct payment for final dressing, seeding and protection, and clean up.

IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Site preparation.** Site preparation will not be measured for payment but shall be incidental to the bid item "Guardrail, Single Face".

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Site Preparation.** Payment for site preparation shall be not paid directly. Site Preparation will be incidental to the bid item "Guardrail, Single Face".

SPECIAL NOTES FOR BRIDGE GUARDRAIL INSTALLATION

I. DESCRIPTION

All work shall be performed in accordance with the Department's current Standard Specifications and applicable Special Provisions except as hereafter specified. Article references are to the Standard Specifications.

This work shall consist furnishing all equipment, labor, materials, and incidentals for the following: (1) Site Preparation; (2) Do temporary erosion control, temporary pollution control, seeding and protection, and clean up; (3) Remove existing guardrail systems; (4) Furnishing and installing guardrail systems, including bridge guardrail (Case I, I-A, I-B, or Case II), guardrail - steel "W" beam (single face - A), end treatments, bridge end connectors, and 9 Ft Posts; (5) furnishing all materials, labor, and equipment needed for the installation of Precast Concrete Bridge Rail Block, as required; (6) Maintaining and control traffic; and (7) all other work specified in the Contract.

II. MATERIALS

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

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Seeding and Protection**. Use Seed Mixture No. 1.
- **C. Guardrail Posts.** Steel Guardrail posts are required. No alternate is allowed.
- **D.** Guardrail-Steel "W" Beam, Single Face-A. Guardrail Steel "W" Beam, Single Face-A shall meet the requirements of Section 814.
- **E. Bridge Guardrail Case I, I-A, I-B, II.** Bridge Guardrail Case I, I-A, I-B, or Case II shall meet the requirements of Section 814.
- **F.** Concrete Bridge Rail Block. Use reinforcement steel of Grade #40, #50, or #60. See Section 811. Use Class "A" Concrete and meet requirements of Section 801, 844 and 802 and applicable parts of Section 601 of the current specifications.

III. CONSTRUCTION METHODS

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

- **B. Site Preparation**. Prepare the shoulder for the guardrail installation, which includes regrading, reshaping, adding and compacting of suitable materials on the existing shoulders to provide proper template or foundation for the guardrail; filling voids left as the result of removing existing guardrail and guard posts with dry sand; removal of all obstructions or any other items; excavation and embankment; temporary pollution and erosion control; disposal, of waste materials; final dressing and cleanup; and seeding and protection. All site preparation shall be as approved or directed by the engineer.
- C. Remove existing Guardrail system, including Concrete Posts and Existing Guardrail End Treatments. Remove existing guardrail system including the guardrail end treatments, Bridge End connectors and all other elements of the existing guardrail system as per Section 719, except that the Contractor will take possession of all concrete posts and all concrete associated with existing bridge and/or guardrail end treatments. Locate all disposal areas off the Right of Way.

Dispose of all existing concrete off the right of way at locations approved by the Engineer. Salvage existing material as per Section 719.03.06 except the Contractor shall deliver existing salvaged guardrail system materials to the Bailey Bridge Lot at Wilkinson Blvd in Frankfort, KY. Contact Bailey Bridge Lot Supervisor at (502) 564-2946 to schedule the delivery of material. Deliver the material between the hours of 8:00AM and 4:30PM, Monday through Friday. Remove any existing guardrail with a lane closure in place. Do not leave the area unprotected. After the guardrail is removed, a shoulder closure shall remain in place until the guardrail is replaced in that area.

D. Installation of Guardrail systems. Furnish Guardrail systems as per Section 719. Steel Guardrail posts are required. No alternate is allowed. The shoulder width shall be a minimum of 2 Ft unless otherwise directed by the Engineer. Grade slopes and shoulders as per applicable guardrail standard drawings. Guardrail locations shown on summary and/or drawing is approximate only. The Engineer will determine the exact termini for guardrail installations at time of construction. Construct radii at entrances and road intersections as per applicable Standard Drawings.

The guardrail shall be erected to the lines and grades shown on current standard drawings or as designated by the Engineer. Unless otherwise directed, the guardrail shall be constructed 2' 3" above true theoretical shoulder elevations, or by any method approved by the Engineer which allows the construction of the guardrail to the true grade and prevents apparent sags.

When installing guardrail the blunt end shall NOT be left exposed where it would be hazardous to the public. When it is not practical to complete the construction of the rail or the permanent end treatments first, the Engineer may require a temporary end by connecting at least 25 feet of rail to the last post, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. If left overnight, a drum with bridge panel as detailed on Standard Drawings for Miscellaneous Traffic Control Devices shall be placed in advance of the guardrail end and maintained during use. The cost of the temporary end, including the barrier and panel, shall be included in the unit price for Guardrail, Steel "W" Beam - Single Face.

Furnish approximately -9 ft (Extra Length) Steel guardrail posts. The Department will

determine the exact location of the extra length posts at the time of guardrail construction.

Construction of Bridge Guardrail, Case I, I-A, I-B, II. Install bridge guardrail, guardrail-steel "W" beam - single face, single face-A, end treatments, bridge end connectors, and terminal sections in accordance with section 719, and the guardrail summary.

Install Guardrail (single face-A) at the bridge ends in conjunction with the Bridge Guardrail Case I, I-A, I-B, or II as described in the bridge guardrail detail sheet for a length of 25'-0" as detailed in Standard Drawing BHS-007-05. Install guardrail single face - A at all four corners of the bridge, unless otherwise indicated in these notes or on the attached guardrail summary.

Construction of Concrete Bridge Rail Block. Construct the Concrete Bridge Rail Block as per the Concrete Bridge Rail Block detail sheet. Excavate, fill, and compact as needed to set the block in place. The corners of the bridge facing traffic will receive this treatment unless otherwise indicated in these notes.

- **E. Property Damage.** The Contractor will be responsible for all damage to public and/or private property resulting from his work.
- F. Coordination with Utility Companies. NOTICE: Utility locations are not shown in the proposal for this project and have not been located by the Department. Locate all underground, above ground and overhead utilities prior to beginning construction. The Contractor shall have the responsibility for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. The Contractor shall be responsible for repairing all utility damage that occurs as a result of his Operations.
- **G. Right of Way Limits**. The exact limits of the Right-of-Way have not been established by the Department. The Contractor shall limit his activities to obvious Right-of-Way, permanent or temporary easements, and work areas secured by the Department through consent and release of the adjacent property owners. The Contractor shall be responsible for all encroachments onto private lands.
- **H. Disposal of Waste**. Dispose of all removed concrete, debris, and other waste as per Section 204.03.08. The Department will incur no cost to obtain the disposal sites. The Department will NOT make direct payment for disposal of waste and debris from the project.
- **I. Final Dressing, Seeding and Protection, and Clean Up**. Apply Final Dressing, Class A to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with Seed Mixture No. 1. The Department will NOT make direct payment for final dressing, seeding and protection, and clean up.

IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Site preparation.** Site preparation will not be measured for payment but shall be incidental to the bid item "Guardrail, Steel "W" Beam, Single Face".
- **C. Remove Guardrail End Treatment**. The Department will measure the quantity as each.
- **D. Bridge Guardrail Case I, I-A, I-B, II.** The Department will measure the quantity in Linear Feet.
- **E. Precast Concrete Bridge Rail Block.** The Department will measure the quantity as each.

V. BASIS OF PAYMENT

- **A. Maintain and Control Traffic.** See Traffic Control Plan.
- **B. Site Preparation.** Payment for site preparation shall be not paid directly. Site Preparation will be incidental to the bid item "Guardrail, Steel "W" Beam Single Face".
- **C. Remove Guardrail End Treatment.** The Department will make payment for the completed and accepted quantities of remove guardrail end treatment. The Department will consider payment as full compensation for furnishing all materials, equipment, labor, other expenses and all incidentals necessary to complete this work to remove the guardrail end treatment.
- **D.** Guardrail, Steel W Beam, Single Face A. The Department will make payment for the completed and accepted quantities of Guardrail, Steel W Beam, Single Face-A. This shall be full compensation for furnishing all materials, equipment, labor, other expenses and all incidentals necessary to complete this work and shall include the "W" beam guardrail (2 ply for extra strength), guardrail post, offset blocks, hardware, and other incidentals necessary to complete the installation within the 25'-0" limit as detailed. All four corners of the Bridge are to receive this guardrail treatment unless otherwise indicated in these notes and the attached guardrail summary.
- **E. Bridge Guardrail Case I, I-A, I-B, II.** The Department will make payment for the completed and accepted quantities of "Bridge Guardrail, Case I, I-A, I-B, or Case II". This shall be full compensation for furnishing all materials, equipment, labor, tools, transportation of materials, other expenses, incidentals and shall include the "W" beam guardrail (2 ply for extra strength), guardrail post, offset blocks, hardware, and other incidentals necessary to complete this work. See attached <u>Bridge Guardrail Detail Sheet</u> for detailed information on the required bridge guardrail.
- F. Precast Concrete Bridge Rail Block. The Department will make payment for the

LOGAN COUNTY HSIP 9010 (054)

completed and accepted quantities of "Precast Concrete Bridge Rail Block" shall be full compensation for furnishing all materials, equipment, labor, other expenses and all incidentals necessary to complete this work and shall include the reinforcement steel, concrete, hardware, and excavation, backfill, and compaction if applicable, and other incidentals necessary to complete the installation as detailed on the Precast Concrete Bridge Rail Block detail sheet.

 $1\text{-}3450\ bridgguardrail case icont furnrem repl9 ft contshoulder }01/01/2009$

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the 2008 Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

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

PROJECT PHASING & CONSTRUCTION PROCEDURES

At the discretion of the Engineer, days and hours may be specified when lane closures will not be allowed.

The Contractor may maintain alternating one way traffic during construction. The clear lane width shall be ____9 __ Feet. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, the Contractor shall make provisions for the passage of the bus as quickly as possible.

Prior to removing or installing any entrance pipe, the contractor shall notify the property owners affected at least 24 hours in advance.

LANE CLOSURES

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

SIGNS

Contrary to Section 112.04.02 and 112.04.03, Low Shoulder signs will not be measured for payment, but will be incidental to Maintain and Control Traffic. Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

BARRICADES

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01. Barricades used to protect pavement removal areas will be bid as each according to Section 112.04.05.

PAVEMENT EDGE DROP-OFFS

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½". Warning signs (MUTCD W8-9 or W8-9A, or W8-11) shall be placed in advance of and at 1500 feet intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. All transverse transitions between newly surfaced pavement and the existing pavement areas that traffic may cross shall be wedged with asphalt mixture for leveling and wedging. Remove wedges prior to placement of the final surface course.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. Cones may be used in place of plastic drums, panels, and barricades during daylight working hours. Wedge with asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

	Right-of-Way Ce	rtificatio	n Form	Revised 2/22/11
√ Fed	deral Funded	√ Origi	nal	
Sta	te Funded	Re-C	Certification	
Interstate, Appalach projects that fall und apply, KYTC shall r	completed and submitted to FHWA with the nia, and Major projects. This form shall a der Conditions No. 2 or 3 outlined elsewhesubmit this ROW Certification prior to country the this form shall be completed and retained	lso be submitt ere in this for onstruction co	ted to FHWA for <u>all</u> fed m. When Condition No ntract Award. For all c	deral-aid o. 2 or 3
Date: April 1, 20	11			
Project Name:	KY 178 (Highland Lick Road)	Letting D	ate: To Be Decide	d
Project #:	8531201C	County:	Logan	
Item #:	03-908.00	Federal f	#: HSIP 9010 (054)
Description of F	Project: HSIP project; Replacing/and or extending box culve each parcel executed Consent & Release forms act	rts. Temporary easen knowledging their righ	nents were needed from 33 parcels t to just compensation, but agreed	The owners of to waive that right.
sanitary hor accordance	t 635.309, the KYTC hereby certify that a using or that KYTC has made available to with the provisions of the current FHWA Assistance Program and that at least one opply.)	o relocatees a directive(s) c	dequate replacement lovering the administra	housing in tion of the Highway
been ac court bu right-of- possess	ion 1. All necessary rights-of-way, included including legal and physical possest legal possession has been obtained. Toway, but all occupants have vacated the sion and the rights to remove, salvage, ovalue has been paid or deposited with the	ession. Trial of There may be lands and import demolish all	or appeal of cases ma some improvements re provements, and KYT0	y be pending in emaining on the C has physical
to use a appeal been ob vacated improve market	on 2. Although all necessary rights-of-wall rights-of-way required for the proper exof some parcels may be pending in court otained, but right of entry has been obtained, and KYTC has physical possession and ements. Fair market value has been paid value for all pending parcels will be paid ction contract. (See note 1 below.)	ecution of the and on other ned, the occup d right to remo d or deposited	e project has been acq parcels full legal poss- pants of all lands and in ove, salvage, or demolowith the court for mos	uired. Trial or ession has not mprovements have ish all st parcels. Fair
of a full	e 1: The KYTC shall re-submit a right-of II Federal-Aid construction contracts. Av legal possession and fair market value for FHWA has concurred in the re-submitte	vard must not or all parcels h	to be made until after as been paid or depos	KYTC has obtained

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:	Kelly R. Divine Printed Name	Right-of-Way Supervisor
Approved:	DAVID L. ORR Printed Name	1/13/11 KYTC, Director of ROW &Utilities Signature
Approved:	Printed Name	FHWA, ROW Officer (when applicable)

Right-of-Way Certification Form

Revised 2/22/11

Date: April 1,	2011				
Project Name: Project #: Item #: Letting Date:	KY 178 (Hi 8531201C 03-908.00 To Be Decide	ghland Lick Road)	County: Federal #:	Logan HSIP 9010	(054)
-0- Parce	eli as <u> </u>	r of parcels to be acquired, I number of businesses to b	e relocated.		
-0- Parcel been c	e court s have not been s have been acq deposited with the	uired by IOJ through conde acquired at this time (explain uired or have a "right of ent e court (explain below for eat een relocated from parcels _ parcel)	in below for ea ry" but fair mai ach parcel)	ach parcel) rket value has i	not been paid or has not
Parcel # Nai	ne/Station	Explanation for delayed elocation, or delayed pay			Proposed date of payment or of relocation
There are acquired and a					. All have been

SPECIAL NOTES FOR UTILITY CLEARANCE IMPACT ON CONSTRUCTION

VARIOUS COUNTIES

Description: Logan County

KY 178 - Highland Lick Rd

Extend Cross Drains and Culverts

The following companies have facilities within the area of the subject project.

ELECTRIC: Mid Valley Transmission

Mid Valley Transmission: The Electric Company has No expected relocations and/or adjustments within the limits of the project.

GAS: Texas Gas

<u>Texas Gas</u> - The Contractor is advised to review the following notes that describe the impact of utilities on these projects. There are No anticipated Utility Conflicts, however the gas line comes closest to the project near KY 1151

GAS: Atmos Energy Corporation

<u>Atmos Energy</u> - The Gas Company has No expected relocations and/or adjustments within the limits of the project.

The following companies have facilities within the area of the subject project.

TELEPHONE: AT&T

<u>AT&T.</u> - The Telephone Corporation has No expected relocations and/or adjustments within the limits of the project.

WATER: Russellville Sewer & Water

<u>Russellville Sewer & Water Company</u> - The Water Company has No expected relocations and/or adjustments within the limits of the project.

WATER: Logan County Water

<u>Logan County Water Company</u> - The Water Company has No expected relocations and/or adjustments within the limits of the project.

SPECIAL NOTES FOR UTILITY CLEARANCE IMPACT ON CONSTRUCTION

VARIOUS COUNTIES

Description: Logan County

KY 178 - Highland Lick Rd

Extend Cross Drains and Culverts

There are Utility Companies that have facilities within the area of the subject project. No utilities are anticipated to be impacted as part of this project. When underground utilities are present, the Contractor is expected to take extra precautions and use alternative digging methods when necessary to complete the project. If a conflict arises due to utility impacts, the Cabinet reserves the right to revise or cancel the location of planned improvements.

The Roadway Contractor is advised to review the following notes that describe the impact of utilities on the scheduling of the project.

The Roadway Contractor should note that this is not be a complete list of the utility owners involved. The Roadway Contractor is advised to contact the KY-811 one-call system; however, the Roadway Contractor should be aware that owners of underground facilities are not required to be members of the KY-811 one-call system. It may be necessary for the Roadway Contractor to contact the County Court Clerk to determine what utility companies have facilities in the project area. KY-811 NUMBER: (Call Before You Dig) Telephone Number: 1-800-752-6007.

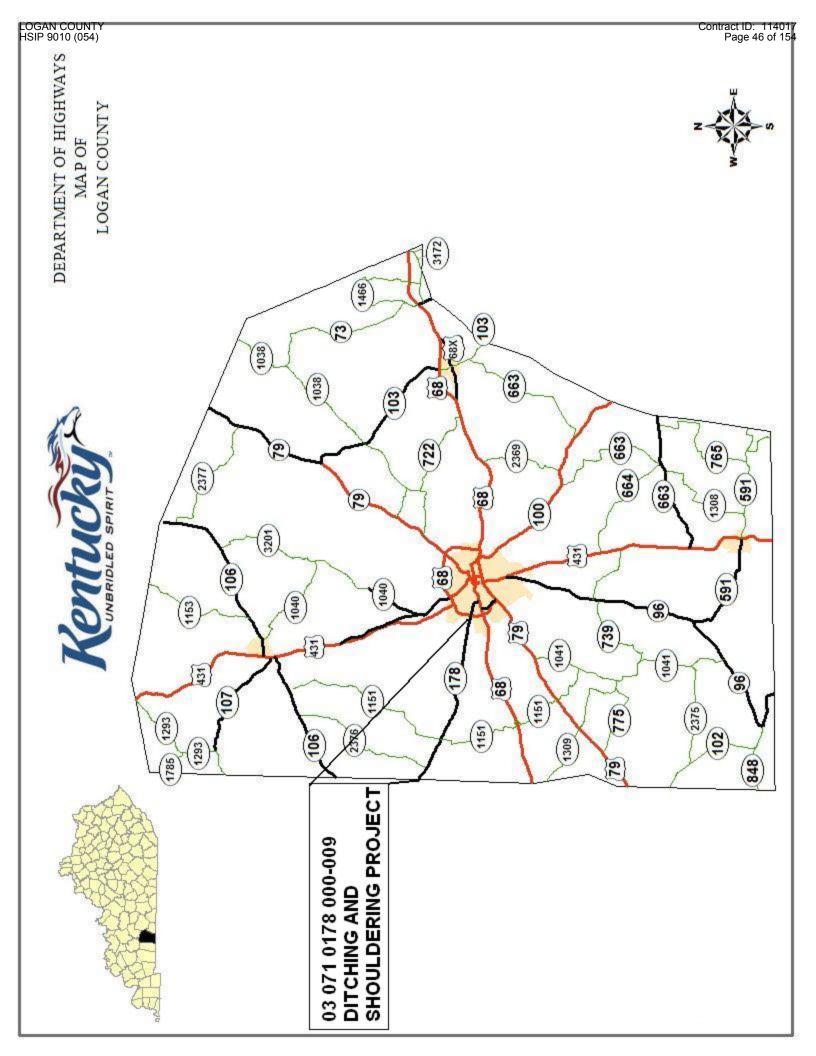
COORDINATION WITH UTILITY FACILITY OWNERS

The Roadway Contractor will be responsible for contacting all utility facility owners on the subject project to have existing facilities located in the field. The Roadway Contractor will coordinate his activities with the utility facility owners to minimize and, where possible, avoid conflicts with utility facilities.

PROTECTION OF UTILITY FACILITIES

The location of utilities provided in the contact document has been furnished by the facility owners and/or by reviewing record drawings and may not be accurate. It will be the Roadway Contractor's responsibility to locate the utilities before excavating by calling the various utility owners and by examining any supplemental information supplied by the Cabinet. If necessary, the Roadway Contractor shall determine the exact location and elevation of utilities by hand digging to expose utilities before excavating in the area of the utility. The cost for repair and any other associated costs for any damage to utilities caused by the Roadway Contractor's operation shall be borne by the Roadway Contractor.

The Roadway Contractor is advised to contact the KY-811 one-call system; however, the Roadway Contractor should be aware that owners of underground facilities are not required to be members of the KY-811 one-call system. It may be necessary for the Roadway Contractor to contact the County Court Clerk to determine what utility companies have facilities in the project area.



SL
xtension
Pipe E
Culvert
For
Summary
Quantity
Drainage

			remarks	SAFELOAD										clean outlet	SAFELOAD		clean in & outlet						clean outlet				clean outlet rt		
		24" cmp	right																					9				9	H.
			right			14	ω	6	10	8								10	9	9		9			9	9		68	F
		18" cmp 24" cmp 18" cmp	left													8					8			8				24	5
2		8" cmp 2	left			10	9	6	8	10				4				9	8	9		9	9		9	10	9	101	F
Caditity Samming 1 of Samon to 1 po Extensions	Safeload	existing	pipe	22											22													44	CUYD
0	Rem &	Replace	Fence									L 30	L 30						L 25	R 25	R 50		R 50		L 100			310	4
, (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii			Temp Fence									L 30	L 30						L 25	R 25	R 50		R 50		L 100			310	느
		Extra	ditching			100	100	20	20			20	20	20									20		25			525	4
مر موسا																													
5		CI II Ch	Lin			20	20	20	20	20	20	20	20	20		20	20	20	20	20	20	20	20	20	20	20	20	420	TON
		Hdwl	removal	2		2	2	2	2	2	2	2	2	1	2	1		1	2	2	2	2	1	2	2	2	2	40	EACH
			Length	27	27	30	30	27	27	30	27	30	33	27	27	36	42	27	27	27	36	27		27	27	27	30		
		Pipe	diameter	18	18	18	18	18	18	24''	24''	24''	24''	18	18''	24''	18	18	18	18	24''	18	18"	24''	18	18	18		
			Skew							30																			
			MP	8.055	7.983	7.458	7.136	6.729	909.9	6.481	098.9	6.212	6.160	5.621	5.233	5.091	4.731	4.651	4.522	4.201	4.007	3.803	3.550	3.064	1.206	0.371	0.199		
			Stationing	51+50	55+30	83+00	100+00	121+50	128+00	134+58	141+00	148+80	151+55	180+00	200+50	208+00	227+00	231+20	238+00	255+00	265+20	276+00	289+35	315+00	413+10	457+20	466+30		

nsions
Exte
ulvert
ပ
Box
For
Summary
antity
ð
Drainage

	EA	LBS	CU YDS	٣	5	H	H	4	5	TONS	EA	EA						
	16	146.55 15962	146.55	24	8	32	1300	1300	1000	470	16	13	TOTALS					
MES Ty 3 - 48"	2			8					100	30	2	1	5	30	4x3	30	0.698	439+95
EXTEND-REFER TO DRAWINGS		2971	27.32				R 200 L 200	R 200 L200	100	30		2	9	30	8×4	30	0.789	435+15
MES Ty 3 - 48"	2			8			R 100	R 100	100	30	2		2	32	4x3	30	1.487	398+25
EXTEND-REFER TO DRAWINGS		2583	21.04				L 100	L 100		30			7	56	9x9		1.593	392+66
EXTEND-REFER TO DRAWINGS		1613	13.93				R 100	R 100	20	30			4	26	5x3		2.293	355+70
EXTEND-REFER TO DRAWINGS		1746	15.42				L 100	L 100	50	30			5	26	6x3		2.627	338+08
EXTEND-REFER TO DRAWINGS		1746	15.42				R 100	R 100		30		2	2	26	6x3		3.423	296+05
MES Ty 3 - 36"	2					8			100	30	2	2	4	26	3x2		3.498	292+07
MES Ty 3 - 36"	2					8			100	30	2				2.5x2.5		3.500	289+35
MES Ty 3 - 42"	2				8				50	30	2		4	27	4x2		3.598	286+81
MES Ty 3 - 36"	2					8			20	30	2	2	4	26	3x2		3.681	282+44
MES Ty 3 - 36"	2					8	R 50	R 50	100	30	2	2	4	28	2.5x2.5		3.882	271+80
EXTEND-DRAWI NGS-stay on ROW		2868	29.94				R 50	R 50	20	30		2	8	26	9x9		4.951	215+40
MES Ty 3 - 48"	2			8			R 50 L50	R 50 L 50	100	20	2		9	37	4x3	45	5.362	193+70
EXTEND-REFER TO DRAWINGS		2435	23.48				R 200	R 200	20	30			9	26	8x4		7.006	106+88
GUARDRAI L-REFER TO DRAWI NGS													9	30	tri 8x4	30 RT	7.674	71+60
remarks	Section	reinf	4	cmp	cmp	cmp	Fence	Temp Fence	ditching	Lin	(mod)	rem	Depth (ft)	length	dimensions	Skew	MP	Stationing
	Metal End	Steel	Conc CI	equiv	equiv	36" equiv	Replace		Extra	는 당	Jct box Cl	Parapet		Box	Box			
				48"	45"		Rem &											

TAPERED SLEEVES AND BANDS WILL BE INCIDENTAL TO BID ITEM FOR CULVERT PIPE 16 EA 13 EA

These numbers are for estimate purposes only Actual quantities will be determined by the engineer in the field

178.xlsm	
n KY	
Logar	
HSIP	

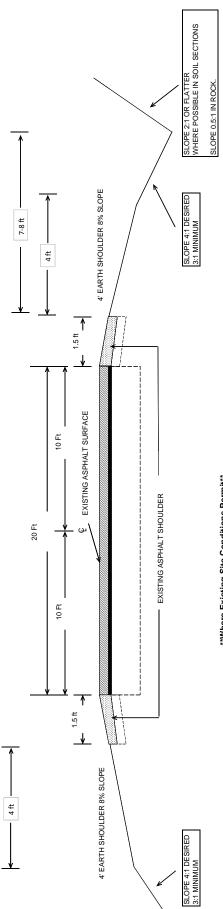
	remarks																															POES NOT HAVE EXISTING BIBE	DOES NOT TRVE EXISTING FIFE					CURTIS WATKINS CONSENT											
ses																																																	
Summary For Entrance pipes																																																	
ıtity	int																																																
Drainage Qua	Cem Conc Ent Asphalt Pvmt					2							2															2					c	7			2	2	2					2					
Drai	DGA		2.5	2.5	2.5		2.5	2.5	2.5	4.5	2.5	2.5		4.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.5	2.5	2.5	2.5	2.5	,	2.5	2.5	2.5	2.5	C.2	2.5	2.5	2.5				2.5	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5
	Remove	28	28	28	28	28	28	28	28	20	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	78	87	000	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	24" ent pipe																																																
	18" equiv									20																																						28	
	: 18" ent		28	28	28	28	28	28	28		28	28	28	20	28	28	28	28	28	28	28	28	20	28	28	28	28	28	28	28	78	87	000	28	28	28	28	28	28	28	28	28	28	28	28	28	28		28
	Right / Left side	7		Н		_		_		Н				ж Ж		_		_		_		4	2	4		_		_		_		- L		<u> </u>	L		L						L	~	L		T (ъ.
	ΔM	8 143	8.140	8.129	8.100	8.087	8.066	8.049	8.035	8.020	7.980			7.938	7.919	7.914	7.910	7.898	7.873	7.873	7.862	7.846	7.846	7.833	7.830	7.820		\dashv	7.750	7.663	7.040	7 590	7 557	7.538	7.538	7.524	7.506	7.501	7.268	7.216	7.203	7.194	7.111	7.084	7.053	7.043	086.9	6.855	6.847
	SP	9											MARKHAM LN															MARKHAM LN																					

	remarks																								PEMOVE AND LEAVE DITCH	ארואוסער אואם בראאר ב					REMOVE AND LEAVE DI TCH			REMOVE AND COMBINE ENTRANCE	REGRADE ENTRANCE				REMOVE AND LEAVE DI TCH	REMOVE AND LEAVE DI TCH					TOLKA GENERAL SERVICES	CONCRETE ENTRANCE		
ont'd)																																			_										-			
pipes (c																																																
Drainage Quantity Summary For Entrance pipes (cont'd)																																																
y For E																																																
Summar																																																
antity	Conc Ent																																												C	20		
ige Ou	Asphalt						2			7	2							c	7																													
Draina	DGA	4.5	2.5	2	2.5	2.5		2.5	2.5		1	2.5	2.5	2.3	C.2	C.2	2.5	C:3	0	C.2	c.7	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.5	2.5	2.5	2.5	2.5			2.5	2.5	е	3	2.5	L	2.5	2.5
	Remove	28	28	28	28	28	28	28	28	28	28	28	28	07	07	30	200	000	07	07	28	28	28	28	280	28	28	28	28	28	28	28	28	20		28	28	28	28	28	28	28	28	28	28	28	28	28
	24" ent pipe			20																	28	24																					28	28	Ċ	28		
	18" equiv pipe																																															
	18" ent pipe	20	28	90	28	28	28	28	28	28	28	28	28	07	20	20	20	200	30	30	07	28	28	28	2	28	28	28	28	28		28	28	20		28	28	28			28	28			28	000	28	78
	Right / Left side	٦	-	۷ _	- A	×	Г	R	В	ď	~	۵ (2 (۲ -	۔ د	Р		٠.	- ا	٦ ۵	۵ ۵	<u>-</u>		- A	: 0	د د	7	٦	Ж	٦	R	R	٦	L			_		_		R	٦	7	_	≃ .	، ر	≅ .	7
	Δ	6.818	6.797	6.466	6.426	6.420	6.416	6.412	6.340	6.135	6.075	5.579	5.545	0.400	0.470	5.200	D.2.70	0.13	021.6	4.017	4.301 A 504	4 480	4 461	4 440	4 306	4.251	4.107	4.057	4.046	4.042	3.880	3.576	3.470	3.249	3.067	2.998	2.978	2.973	2.539	2.533	2.515	2.446	2.220	2.164	2.144	2.137	1.890	1.880
	RD																																															

		remarks				REMOVE AND LEAVE DI TCH				REMOVE AND LEAVE DITCH															
nt'd)																									
oes (co																									
ance pip																									
or Entra																									
Drainage Quantity Summary For Entrance pipes (cont'd)																									
tity Sun	Conc Ent	Pvmt																							C
e Quan		Asphalt		2													2		2	2	2	2			76
Drainag		DGA	2.5		2.5		2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5	2.5		2.5					2.5	2.5	3 7 3C
	Remove	pipe	28	28	28		28	28	28		28	28	28	28	28	28	28	28	28	28	28	28	28	28	2000
	24" ent	bibe																							14.7
	18" equiv	pipe																							7.0
	18" ent	pipe	28	28	28		28	28	28		28	28	28	28	28	28	28	28	28	28	28	28	28	28	2000
	Right / Left	side	~	~	~	7	2	W.	٦	R	7	٦	ĸ	R	٦	R	7	R	ĸ	R	В	٦	٦	В	SIVIOI
		MP	1.616	1.554	1.167	1.040	1.000	896'0	896'0	926'0	956.0	0.857	0.700	0.673	0.649	0.649	0.635	0.623	0.517	0.500	0.454	0.441	0.257	0.080	
		RD															KY 2376					HOLLAND RD			

TAPERED SLEEVES AND BANDS WILL BE INCIDENTAL TO BID ITEM FOR ENTRANCE PIPE
These numbers are for estimate purposes only
Actual quantities will be determined by the engineer in the field

LOGAN COUNTY
HSIP KY 178
TYPICAL SECTION
MILEPOINTS 0-8.206



Where Existing Site Conditions Permit
Final slopes will be determined by the Engineer

General Notes for skewed headwalls

The following changes are to be made in the Standard Drawing No. RDH -1010-02 (headwall supplement), which give dimensions for construction and related Standard Drawings which give dimensions, size and locations for steel reinforcement. These changes are necessary in order to make headwalls designed for a precast culvert compatible with a poured in place culvert.

Reinforcement bars N1,H & K shall be lengthened 24"

Bar F shall have dimension K increased as needed and enough bars to be placed on 12" centers.

Bars E & G shall be shortened an amount equal to the difference in dimension E.

Bars N2 to be the length of dimension F + 22".

Bar C (longest bar C) to be dimension F + 22", then shortened to match the batter on top of the wing.

Bars Q,R,S & T to be eliminated.

Bar V placed on 12" centers.

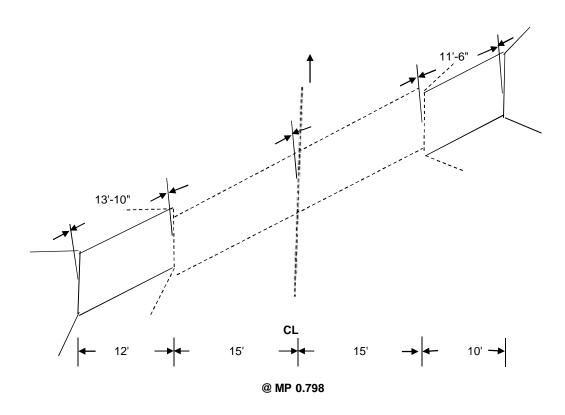
Reinforcement to be placed according to Standard Drawing RDH-1010-02 (headwall supplement) attached.

Dimensions according to attached drawings.

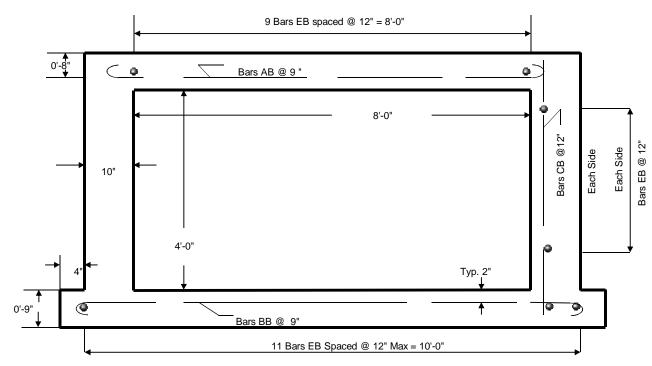
Bars FB (dowel bars) to be epoxied into existing concrete in order to lap on bars EB.

Place 4" weep holes 6" above flow line in walls and wings on 8' centers, minimum 2 each side

These changes in reinforcement lengths & headwall dimensions are reflected in attached bar lists & sketches.



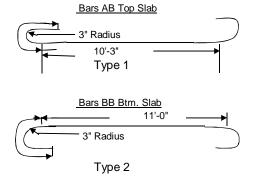
Quantities Class A Conc. (Barrel) 9.884 + (Hdwls) 17.44 27.324 Cu Yds Reinf. (Barrel) 2020.31 + (Hdwls) 951.02 2971.33 Lbs



PLAN VIEW BARREL

BENT BAR SHAPES

Bill of	Reinfor	cement			
Mark	Type	No.	Size	Length	Location
AB	1	34	6	11'-11"	Top Slab
BB	2	34	6	12'-8"	Btm Slab
CB	Str.	52	5	5'-1"	Walls
EB1	Str.	28	5	13'-8"	Lt. Barrel
EB2	Str.	25	5	11'-4"	Rt. Barrel
FB	Str.	56	5	3'-1"	Dowels



Barrel Reinf. = 2020.3 Lbs

			Length		K	
Mark	Size	No. 1	Feet	Inches	Feet	Inches
	8 x 4 @	20° CI	/E\\/ -	T / 1 ha	(المبياد	
				•	auwaii)	
A1	5	2	7	5		
A2 C1	5	2	9	11		
C1	4	1	3	3		
C2	4	1	5	10		
C2 C3	4	1	8	4		
C4	4	1	10	11		
C5	4	1	11	3		
E1	5	2	13	10	10	10
E2	5	2	14	3	11	3
F	4	12	3	0	1	4
G1	4	1	10	2		
G2	4	2	12	1		
G3	4	2	13	11		
G4	4	3	15	10		
Н	4	11	11	6	9	10
K1	4	1	4	8		
K2	4	1	6	6		
K3	4	1	8	3		
K4	4	1	8	6		
N1	4	3	8	6		
N2	4	3	11	3		
V1	5	2	3	9	2	6
V2	5	2	4	6	3	3
V3	5	2	5	3	4	0
V4	5	2	6	1	4	10
V5	5	2	6	11	5	8
W1	5	2	3	10	2	7
W2	5	2	4	11	3	8
W3	5	2	6	0	4	9
W4	5	1	7	1	5	10
EXTRA	5	2	10	0		

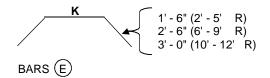
Lbs. Reinf. For 1 Hdwl = 475.51 Lbs 2 Hdwl = 951.02 Lbs

Note: Reinf. To be installed according to Std Drawing No. RDH - 1010 - 02 (Hdwl. Supplement) attached.

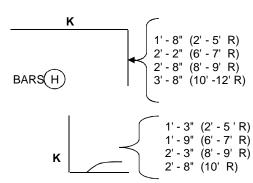
NOTES

- 1) NUMBER OF BARS IN ONE HEADWALL.
- 2 DIMENSIONS ARE 0. TO 0. OF BARS.
- 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN
- 4 R = BOX OR PIPE RISE
- 5 W= WING WALL WIDTH

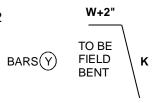
BENT BAR SHAPES







BARS PAND V



General Notes for headwalls @ 90 degrees

The following changes are to be made in the Standard Drawing No. RDH -1000-02, which give dimensions for construction and related Standard Drawings which give dimensions, size and locations for steel reinforcement. These changes are necessary in order to make headwalls designed for a precast culvert compatible with a poured in place culvert.

Reinforcement bars N,H & C are to be lengthened 24" in order to tie headwall reinforcement to barrel reinforcement. Some of these bars will require field bending.

Bar F shall have dimension K increased by the depth of the culvert top slab.

Bars Q & R along with the footer shown under the end of the barrel, shall be omitted.

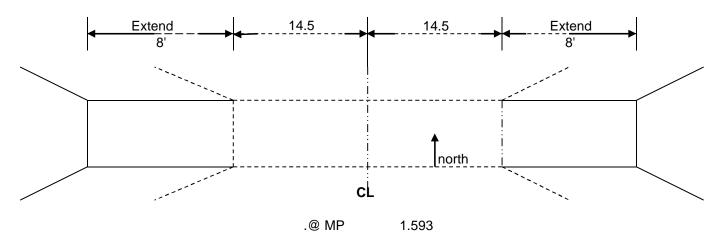
In addition, 2 pieces of #5 steel, 10" long shall be furnished to be used as directed by the engineer.

Reinforcement bars E & G shall be shortened an amount equal to the difference between dist. E (as shown in the Standard Drawings) and the actual inside width of the culvert barrel.

Dowel bars shall be embedded into existing concrete and secured by epoxy.

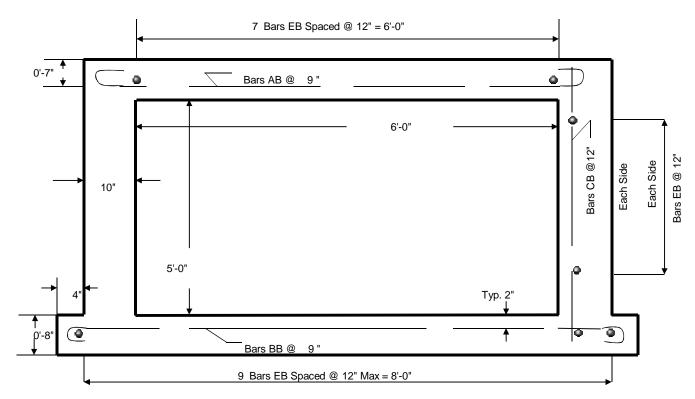
Dowel bars are to be located so as to lap onto EB bars.

These changes in reinforcement lengths & headwall dimensions are reflected in attached bar lists & sketches.



Quantities

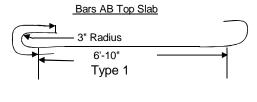
Class A Conc. (Barrel) 10.879 .+Hdwls 10.16 = 21.04 Cu Yds Reinf (Barrel) 1779.46 .+Hdwls 803.63 = 2583 Lbs

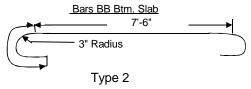


PLAN VIEW BARREL

BENT BAR SHAPES

Bill of	Reinfor	cement			
Mark	Type	No.	Size	Length	Location
AB	1	26	6	8'-6"	Top Slab
BB	2	26	6	9'-2"	Btm Slab
СВ	Str.	32	5	5'-11"	Walls
EB1	Str.	52	5	7'-10"	Barrel
EB2	Str.	not	5	used	Barrel
FB	Str.	52	5	3'-1"	Dowels





Barrel Reinf. = 1779.5 Lbs

			Len	igth	K	
Mark	Size	No. 1	Feet	Inches	Feet	Inches
		6 x 5	(1 hea	dwall)		
Α	5	4	8	7		
C1	4	2	4	3		
C2	4	2	6	4		
C3	4	2	8	5		
C4	4	4	9	9		
E1	5	2	9	3	6	3
E2	5	2	9	7	6	7
F	4	7	2	2	0	11
G1	4	1	7	1		
G2	4	2	8	3		
G3	4	2	10	7		
G4	4	3	12	10		
Н	4	8	10	2	8	6
N	4	6	9	8		
V1	5	4	4	4	3	1
V2	5	4	5	3	4	0
V3	5	4	6	2	4	11
V4	5	4	7	2	5	11
EXTRA	5	2	10	0		

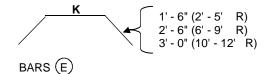
Lbs. Reinf. For 1 Hdwl = 401.82 Lbs 2 Hdwl = 803.63 Lbs

Note: Reinf. To be installed according to Std Drawing No. RDH - 1000 - 02 (Hdwl. Supplement) attached.

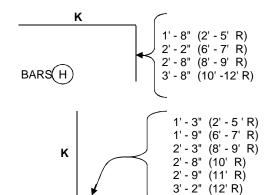
NOTES

- 1) NUMBER OF BARS IN ONE HEADWALL.
- 2 DIMENSIONS ARE 0. TO 0. OF BARS.
- 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN
- 4 R = BOX OR PIPE RISE
- 5 W= WING WALL WIDTH

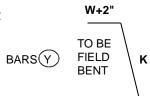
BENT BAR SHAPES







BARS(P)AND(V)



General Notes for headwalls @ 90 degrees

The following changes are to be made in the Standard Drawing No. RDH -1000-02, which give dimensions for construction and related Standard Drawings which give dimensions, size and locations for steel reinforcement. These changes are necessary in order to make headwalls designed for a precast culvert compatible with a poured in place culvert.

Reinforcement bars N,H & C are to be lengthened 24" in order to tie headwall reinforcement to barrel reinforcement. Some of these bars will require field bending.

Bar F shall have dimension K increased by the depth of the culvert top slab.

Bars Q & R along with the footer shown under the end of the barrel, shall be omitted.

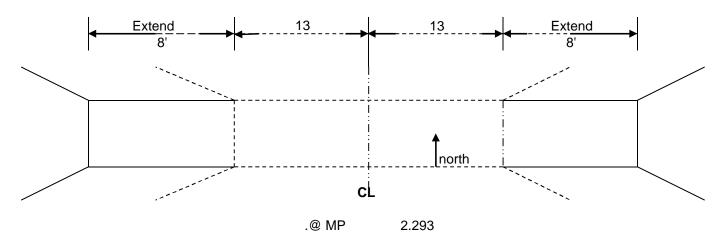
In addition, 2 pieces of #5 steel, 10" long shall be furnished to be used as directed by the engineer.

Reinforcement bars E & G shall be shortened an amount equal to the difference between dist. E (as shown in the Standard Drawings) and the actual inside width of the culvert barrel.

Dowel bars shall be embedded into existing concrete and secured by epoxy.

Dowel bars are to be located so as to lap onto EB bars.

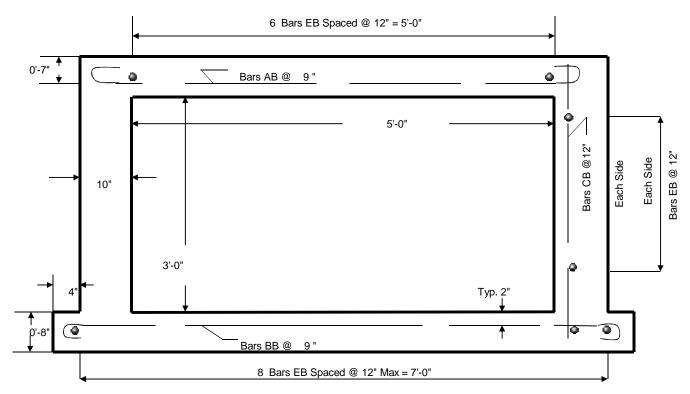
These changes in reinforcement lengths & headwall dimensions are reflected in attached bar lists & sketches.



Quantities

Class A Conc. (Barrel) Reinf (Barrel) 8.165 .+Hdwls 1106.6 .+Hdwls 5.76 = 506.16 =

13.93 Cu Yds 1613 Lbs

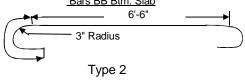


PLAN VIEW BARREL

BENT BAR SHAPES

Bill of	Reinfor	cement			
Mark	Type	No.	Size	Length	Location
AB	1	22	6	7'-6"	Top Slab
BB	2	22	6	8'-2"	Btm Slab
СВ	Str.	32	5	4'-0"	Walls
EB1	Str.	40	5	7'-10"	Barrel
EB2	Str.	not	5	used	Barrel
FB	Str.	40	5	3'-1"	Dowels





Barrel Reinf. = 1106.6 Lbs

			Length		K	
Mark	Size	No. 1	Feet	Inches	Feet	Inches
		5 x 3	(1 hea	dwall)		
Α	5	4	5	10		
C1	4	2	3	11		
C2	4	2	6	0		
C3	4	2	7	3		
E1	5	2	8	4	5	4
E2	5	2	8	9	5	9
F	4	7	2	2	0	11
G1	4	2	6	7		
G2	4	2	8	11		
G3	4	2	10	0		
Н	4	6	8	0	6	4
N	4	6	7	2		
V1	5	4	3	6	2	3
V2	5	4	4	5	3	2
V3	5	2	5	5	4	2
EXTRA	5	2	10	0		

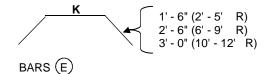
Lbs. Reinf. For 1 Hdwl = 253.08 Lbs 2 Hdwl = 506.16 Lbs

Note: Reinf. To be installed according to Std Drawing No. RDH - 1000 - 02 (Hdwl. Supplement) attached.

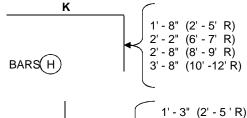
NOTES

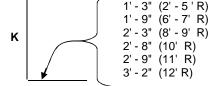
- 1) NUMBER OF BARS IN ONE HEADWALL.
- 2 DIMENSIONS ARE 0. TO 0. OF BARS.
- 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN
- 4 R = BOX OR PIPE RISE
- 5 W= WING WALL WIDTH

BENT BAR SHAPES

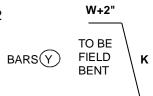








BARSPANDV



General Notes for headwalls @ 90 degrees

The following changes are to be made in the Standard Drawing No. RDH -1000-02, which give dimensions for construction and related Standard Drawings which give dimensions, size and locations for steel reinforcement. These changes are necessary in order to make headwalls designed for a precast culvert compatible with a poured in place culvert.

Reinforcement bars N,H & C are to be lengthened 24" in order to tie headwall reinforcement to barrel reinforcement. Some of these bars will require field bending.

Bar F shall have dimension K increased by the depth of the culvert top slab.

Bars Q & R along with the footer shown under the end of the barrel, shall be omitted.

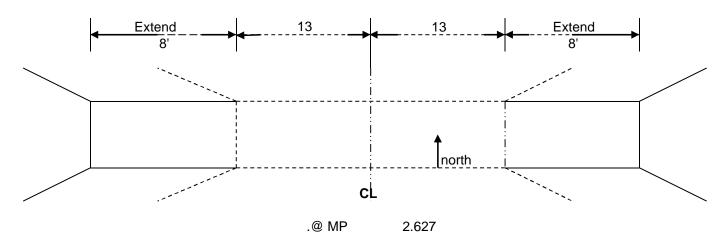
In addition, 2 pieces of #5 steel, 10" long shall be furnished to be used as directed by the engineer.

Reinforcement bars E & G shall be shortened an amount equal to the difference between dist. E (as shown in the Standard Drawings) and the actual inside width of the culvert barrel.

Dowel bars shall be embedded into existing concrete and secured by epoxy.

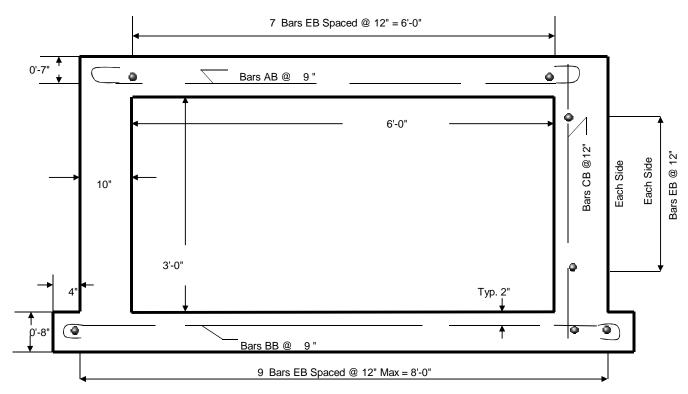
Dowel bars are to be located so as to lap onto EB bars.

These changes in reinforcement lengths & headwall dimensions are reflected in attached bar lists & sketches.



Quantities

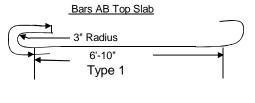
Class A Conc. (Barrel) 8.905 .+Hdwls 6.51 = 15.42 Cu Yds Reinf (Barrel) 1215.47 .+Hdwls 531.01 = 1746 Lbs

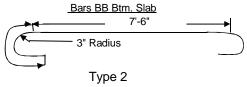


PLAN VIEW BARREL

BENT BAR SHAPES

Bill of	Reinfor	cement			
Mark	Type	No.	Size	Length	Location
AB	1	22	6	8'-6"	Top Slab
BB	2	22	6	9'-2"	Btm Slab
СВ	Str.	32	5	3'-11"	Walls
EB1	Str.	44	5	7'-10"	Barrel
EB2	Str.	not	5	used	Barrel
FB	Str.	44	5	3'-1"	Dowels





Barrel Reinf. = 1215.5 Lbs

			Length			
Mark	Size	No. 1	Feet	Inches	Feet	Inches
		6 x 3	(1 hea	dwall)		
A	5	4	6	1		
C1	4	2	4	2		
C2	4	2	6	3		
C3	4	2	7	5		
E1	5	2	9	3	6	3
E2	5	2	9	7	6	7
F	4	7	2	2	0	11
G1	4	1	6	10		
G2	4	2	8	8		
G3	4	3	10	10		
H	4	7	7	4	5	8
N	4	6	7	5		
V1	5	4	3	5	2	2
V2	5	4	4	6	3	3
V3	5	2	5	4	4	1
EXTRA	5	2	10	0		

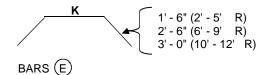
Lbs. Reinf. For 1 Hdwl = 265.51 Lbs 2 Hdwl = 531.01 Lbs

Note: Reinf. To be installed according to Std Drawing No. RDH - 1000 - 02 (Hdwl. Supplement) attached.

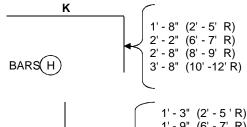
NOTES

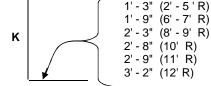
- 1) NUMBER OF BARS IN ONE HEADWALL.
- 2 DIMENSIONS ARE 0. TO 0. OF BARS.
- 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN
- 4 R = BOX OR PIPE RISE
- 5 W= WING WALL WIDTH

BENT BAR SHAPES

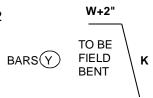








BARS PAND V



General Notes for headwalls @ 90 degrees

The following changes are to be made in the Standard Drawing No. RDH -1000-02, which give dimensions for construction and related Standard Drawings which give dimensions, size and locations for steel reinforcement. These changes are necessary in order to make headwalls designed for a precast culvert compatible with a poured in place culvert.

Reinforcement bars N,H & C are to be lengthened 24" in order to tie headwall reinforcement to barrel reinforcement. Some of these bars will require field bending.

Bar F shall have dimension K increased by the depth of the culvert top slab.

Bars Q & R along with the footer shown under the end of the barrel, shall be omitted.

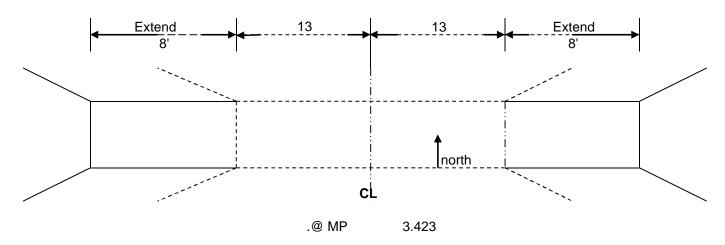
In addition, 2 pieces of #5 steel, 10" long shall be furnished to be used as directed by the engineer.

Reinforcement bars E & G shall be shortened an amount equal to the difference between dist. E (as shown in the Standard Drawings) and the actual inside width of the culvert barrel.

Dowel bars shall be embedded into existing concrete and secured by epoxy.

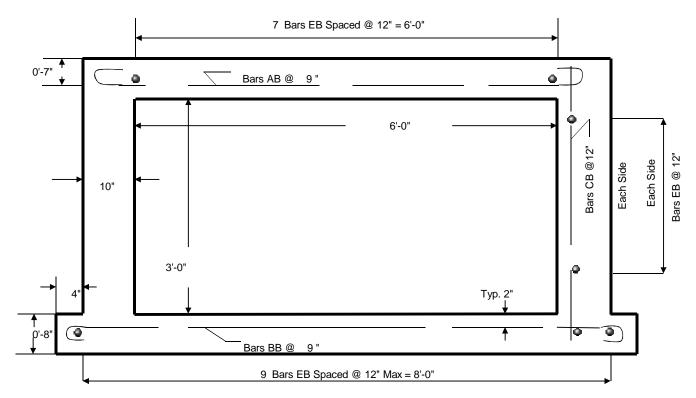
Dowel bars are to be located so as to lap onto EB bars.

These changes in reinforcement lengths & headwall dimensions are reflected in attached bar lists & sketches.



Quantities

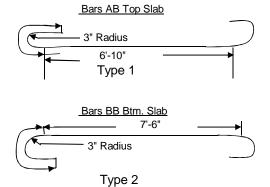
Class A Conc. (Barrel) 8.905 .+Hdwls 6.51 = 15.42 Cu Yds Reinf (Barrel) 1215.47 .+Hdwls 531.01 = 1746 Lbs



PLAN VIEW BARREL

BENT BAR SHAPES

Bill of	Reinfor	cement			
Mark	Type	No.	Size	Length	Location
AB	1	22	6	8'-6"	Top Slab
BB	2	22	6	9'-2"	Btm Slab
СВ	Str.	32	5	3'-11"	Walls
EB1	Str.	44	5	7'-10"	Barrel
EB2	Str.	not	5	used	Barrel
FB	Str.	44	5	3'-1"	Dowels



Barrel Reinf. = 1215.5 Lbs

			Len	igth	K	
Mark	Size	No. 1	Feet	Inches	Feet	Inches
		6 x 3	(1 hea	dwall)		
Α	5	4	6	1		
C1	4	2	4	2		
C2	4	2	6	3		
C3	4	2	7	5		
E1	5	2	9	3	6	3
E2	5	2	9	7	6	7
F	4	7	2	2	0	11
G1	4	1	6	10		
G2	4	2	8	8		
G3	4	3	10	10		
Н	4	7	7	4	5	8
N	4	6	7	5		
V1	5	4		5	2	2
V2	5	4	4	6	3	3
V3	5	2	5	4	4	1
EXTRA	5	2	10	0		

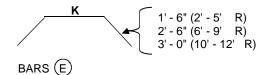
Lbs. Reinf. For 1 Hdwl = 265.51 Lbs 2 Hdwl = 531.01 Lbs

Note: Reinf. To be installed according to Std Drawing No. RDH - 1000 - 02 (Hdwl. Supplement) attached.

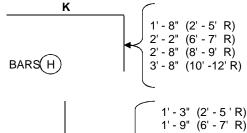
NOTES

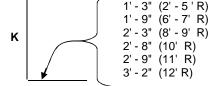
- 1) NUMBER OF BARS IN ONE HEADWALL.
- 2 DIMENSIONS ARE 0. TO 0. OF BARS.
- 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN
- 4 R = BOX OR PIPE RISE
- 5 W= WING WALL WIDTH

BENT BAR SHAPES

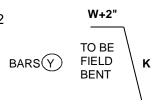








BARS PAND V



General Notes for headwalls @ 90 degrees

The following changes are to be made in the Standard Drawing No. RDH -1005-02, which give dimensions for construction and related Standard Drawings which give dimensions, size and locations for steel reinforcement. These changes are necessary in order to make headwalls designed for a precast culvert compatible with a poured in place culvert.

Reinforcement bars N,H & C are to be lengthened 24" in order to tie headwall reinforcement to barrel reinforcement. Some of these bars will require field bending.

Bar F shall have dimension K increased by the depth of the culvert top slab.

Bars Q & R along with the footer shown under the end of the barrel, shall be omitted.

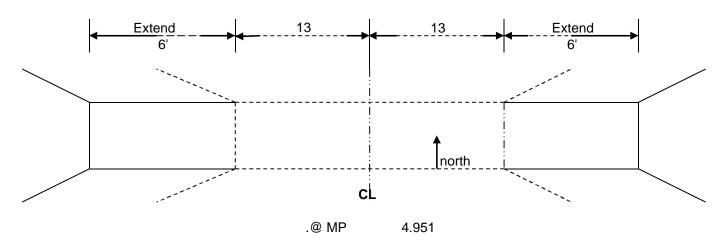
In addition, 2 pieces of #5 steel, 10" long shall be furnished to be used as directed by the engineer.

Reinforcement bars E & G shall be shortened an amount equal to the difference between dist. E (as shown in the Standard Drawings) and the actual inside width of the culvert barrel.

Dowel bars shall be embedded into existing concrete and secured by epoxy.

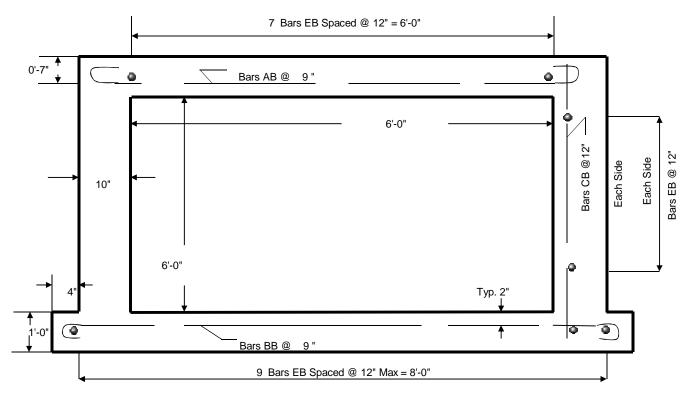
Dowel bars are to be located so as to lap onto EB bars.

These changes in reinforcement lengths & headwall dimensions are reflected in attached bar lists & sketches.



Quantities

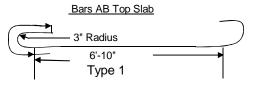
Class A Conc. (Barrel) 10.13 .+Hdwls 19.81 = 29.94 Cu Yds Reinf (Barrel) 1190.63 .+Hdwls 1677.85 = 2868 Lbs

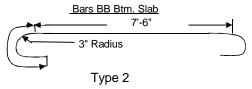


PLAN VIEW BARREL

BENT BAR SHAPES

Bill of F	Reinford	ement			
Mark	Туре	No.	Size	Length	Location
AB	1	22	6	8'-6"	Top Slab
BB	2	22	6	9'-2"	Btm Slab
СВ	Str.	32	5	3'-11"	Walls
EB1	Str.	44	5	7'-10"	Barrel
EB2	Str.	not	5	used	Barrel
FB	Str.	44	5	3'-1"	Dowels





Barrel Reinf. = 1190.6 Lbs

			Length		K				
Mark	Size	No. 1	Feet	Inches	Feet	Inches			
	6 x 6 (1 headwall)								
Α	5	4	10	1					
B1	5	8	3	1					
B2	5	8	4	0					
B3	5	8	5	0					
B4	5	8	5	11					
B5	5	4	6	10					
C1	4	4	4	7					
C2	4	4	6	8					
C3	4	4	8	9					
C4	4	4	10	10					
C5	4	8	11	1					
E1	5	2	12	5	7	5			
E2	5	2	12	11	7	11			
F	4	8	1	5	0	11			
G1	4	2	9	1					
G2	4	2	11	4					
G3	4	2	13	8					
G4	4	3	16	0					
Н	4	9	11	10	7	8			
М	4	18	3	9					
N	4	14	11	0					
Р	5	18	5	3	3	6			
EXTRA	5	2	10	0					

Lbs. Reinf. For 1 Hdwl = 838.932 Hdwl = 1677.86

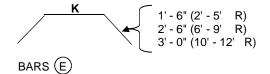
Note: Reinf. To be installed according to Std Drawing No. RDH - 1005 - 02 (Hdwl. Supplement) attached.

Lbs
Lbs

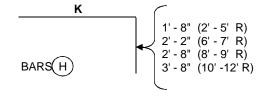
NOTES

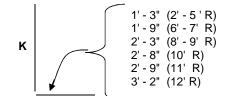
- 1) NUMBER OF BARS IN ONE HEADWALL.
- 2 DIMENSIONS ARE 0. TO 0. OF BARS.
- 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN
- 4 R = BOX OR PIPE RISE
- 5 W= WING WALL WIDTH

BENT BAR SHAPES

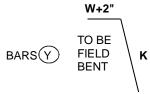












General Notes for headwalls @ 90 degrees

The following changes are to be made in the Standard Drawing No. RDH -1000-02, which give dimensions for construction and related Standard Drawings which give dimensions, size and locations for steel reinforcement. These changes are necessary in order to make headwalls designed for a precast culvert compatible with a poured in place culvert.

Reinforcement bars N,H & C are to be lengthened 24" in order to tie headwall reinforcement to barrel reinforcement. Some of these bars will require field bending.

Bar F shall have dimension K increased by the depth of the culvert top slab.

Bars Q & R along with the footer shown under the end of the barrel, shall be omitted.

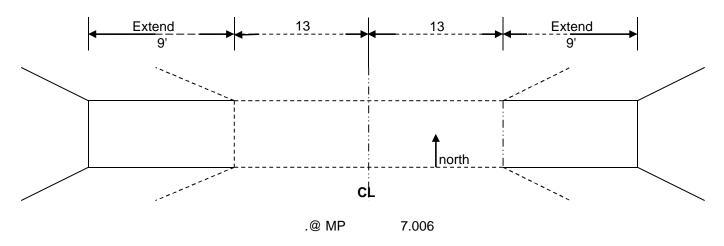
In addition, 2 pieces of #5 steel, 10" long shall be furnished to be used as directed by the engineer.

Reinforcement bars E & G shall be shortened an amount equal to the difference between dist. E (as shown in the Standard Drawings) and the actual inside width of the culvert barrel.

Dowel bars shall be embedded into existing concrete and secured by epoxy.

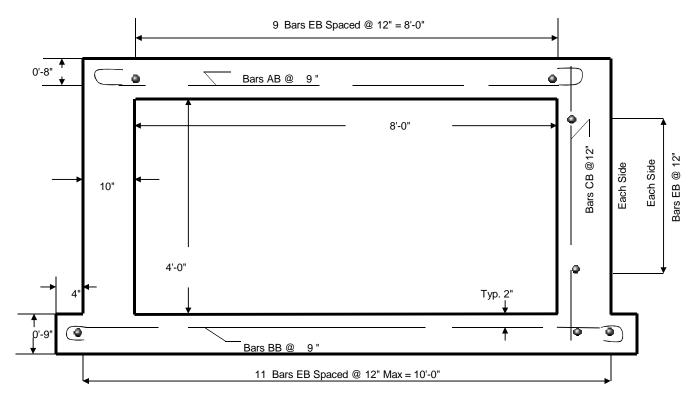
Dowel bars are to be located so as to lap onto EB bars.

These changes in reinforcement lengths & headwall dimensions are reflected in attached bar lists & sketches.



Quantities

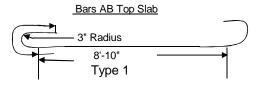
Class A Conc. (Barrel) 13.892 .+Hdwls 9.59 = 23.48 Cu Yds Reinf (Barrel) 1667.89 .+Hdwls 766.92 = 2435 Lbs

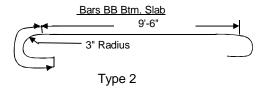


PLAN VIEW BARREL

BENT BAR SHAPES

D (D : (1
Bill of	Reinford	cement			
Mark	Type	No.	Size	Length	Location
AB	1	24	6	10'-6"	Top Slab
BB	2	24	6	11'-2"	Btm Slab
СВ	Str.	36	5	5'-1"	Walls
EB1	Str.	56	5	8'-10"	Barrel
EB2	Str.	not	5	used	Barrel
FB	Str.	56	5	3'-1"	Dowels





Barrel Reinf. = 1667.9 Lbs

			Len		K			
Mark	Size	No. 1	Feet	Inches	Feet	Inches		
	8 x 4 (1 headwall)							
A	5	4	7	6				
C1		2	4	5				
C2	4	2	6	6				
C3	4	2	8	7				
	4	2	8	9				
E1	5	2	11	3	8	3		
E2	5	2	11	7	8			
F	4	10	2	4	1	0		
G1	4	2	11	4				
G2	4	2	13	8				
G3	4	3	16	0				
H	4	9	9	4	7	8		
N	4	6						
V1	5	4	3	10				
V2	5	4	4	9	3			
V3	5	4	5	9	4			
V4	5	2	6	8	5	5		
EXTRA	5	2	10	0				

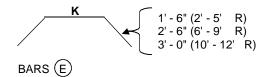
Lbs. Reinf. For 1 Hdwl = 383.46 Lbs 2 Hdwl = 766.92 Lbs

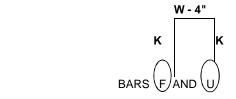
Note: Reinf. To be installed according to Std Drawing No. RDH - 1000 - 02 (Hdwl. Supplement) attached.

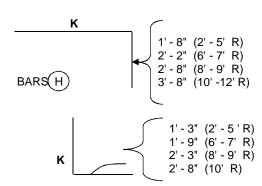
NOTES

- 1) NUMBER OF BARS IN ONE HEADWALL.
- 2 DIMENSIONS ARE 0. TO 0. OF BARS.
- 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN
- 4 R = BOX OR PIPE RISE
- 5 W= WING WALL WIDTH

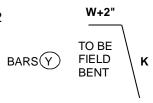
BENT BAR SHAPES



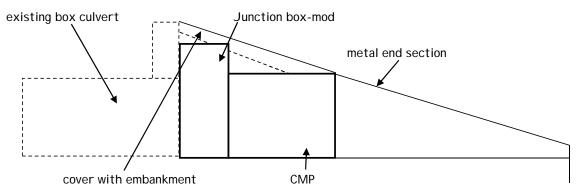




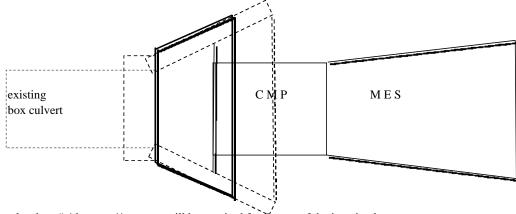
BARS PAND V



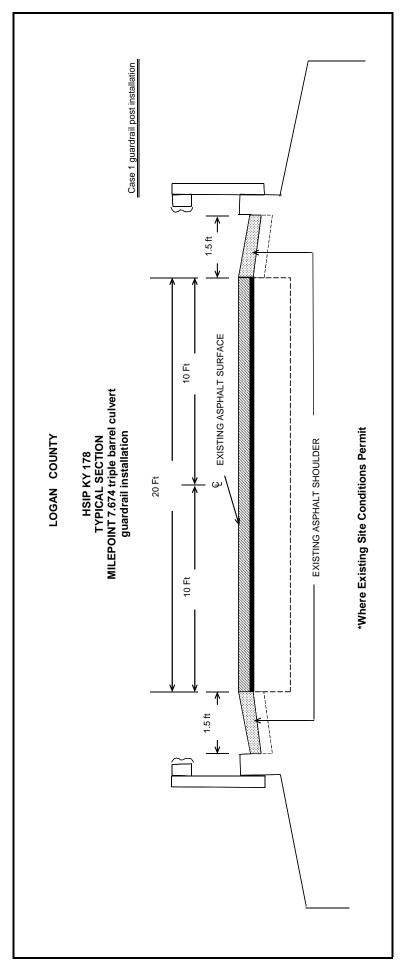
JUNCTION BOX-MODIFIED DRAWING

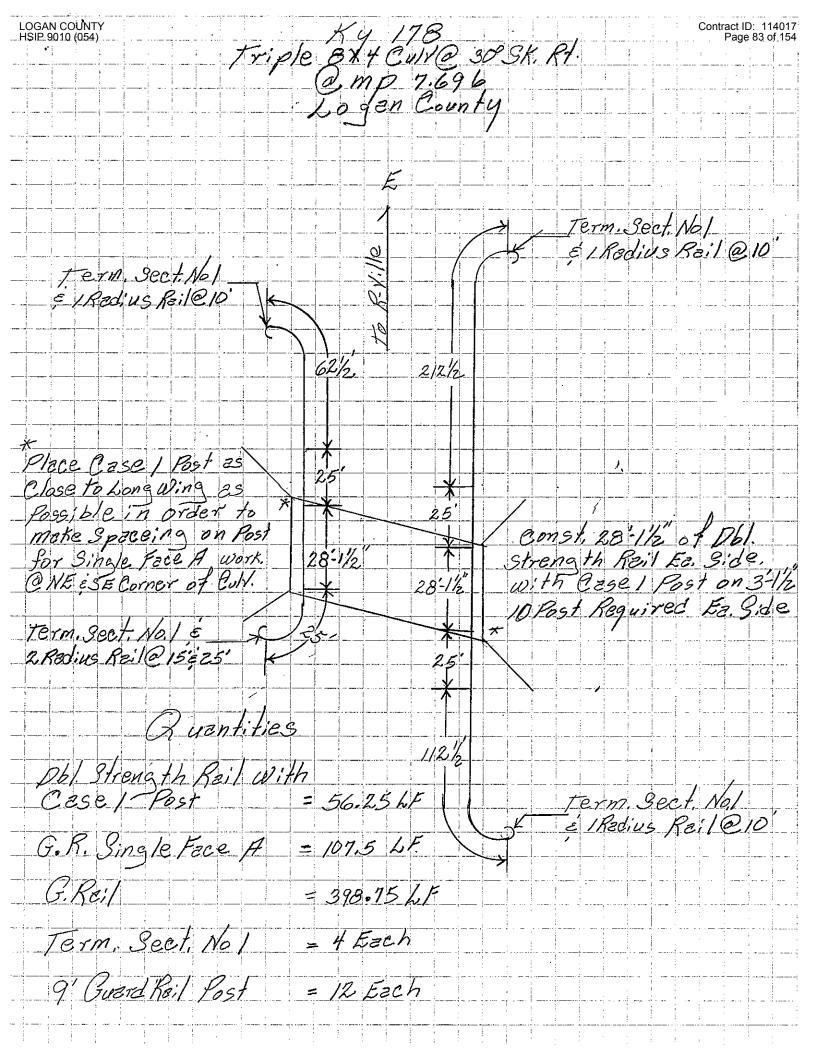


Dowel bars (#5) shall be embedded and epoxyed into existing concrete on 1' centers

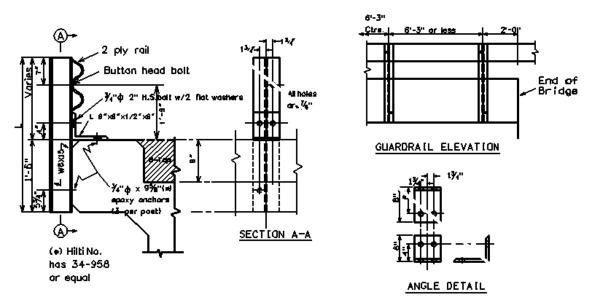


A mat of steel re-bar, # 4 bars on 1' centers, will be required for the top of the junction box, and be incidental to the junction box





GUARDRAIL ON BRIDGE, CASE I BLACKTOP FLUSH WITH CURB OR ABOVE



NORTH SIDE

Bridge MP	D =	W=	L=	No. Posts	LF of 2 PLY Rail		
7.696 (Toward Claymore)	-3 3/8	12	49 3/8	1	28' 1 1/2"		
"	-3	12	49	1			
"	-2 3/4	12	48 3⁄4	1			
"	-2 3/8	12	48 3/8	1			
"	-2 1/8	12	48 1/8	1			
"	-1 3/4	12	47 3⁄4	1			
"	-1 1/2	12	47 1/2	1			
"	-1 1/8	12	47 1/8	1			
"	-7/8	12	46 7/8	1			
Toward R-Ville	-1/2	12	46 1/2	1			

SOUTH SIDE

Bridge MP	D =	W=	L=	No. Posts	LF of 2 PLY Rail
7.696 (Toward Claymore)	-1 ½	12	47 1/4	1	28' 1 1/2"
"	-1	12	47	1	
"	- 3/4	12	46 ³ ⁄ ₄	1	
"	- 1/2	12	46 1/2	1	
"	- 1/4	12	46 ½	1	
"	0	12	46	1	
"	+ 1/4	12	45 3/4	1	
"	+ 1/2	12	45 1/2	1	
"	+ 3/4	12	45 1/4	1	
Toward R-Ville	+1	12	45	1	

L = Length of Guardrail Post

D = Curb Height W = Width of Bridge Curb

GUARDRAIL ON BRIDGE, CASE I BLACKTOP FLUSH WITH CURB OR ABOVE (CONT'D)

Warrants - Use Case I when guardrail can be bolted to the back of the bridge curb. <u>Use Case I where the bridge surface is flush with the curb top</u>. Use Case I where the clear distance between the faces of the guardrail is less than 20 Ft and the curb width is less than 18 Inches.

NOTES - If the dimension from the top of the existing riding surface to the top of the curb is 2 Inches or less, the surface shall be paved flush to the top of the curb, and **CASE I Guardrail** shall be used. Asphalt paving will be done only when specified in the Contract. Additional paving material that includes asphalt surface and/or leveling and wedging that is required to bring the riding surface flush with the curb top shall be paid as separate bid items.

If concrete bridge rail needs to be removed from the bridge, include a bid item for Bridge rail removal.

PART II SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

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

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

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

GEIDGE GETON	100 10 7 11 0 1 0 0 1 0 0 1 0 0 1
SUBSECTION:	102.13 Public Opening of Bid Proposals.
REVISION:	Replace Heading with the following: 102.13 Public Announcement of Bid Proposals.
	102.13 I done Announcement of Bid I roposais.
	Replace the paragraph with the following:
	The Department will publicly announce all Bid Proposals at the time indicated in the Notice to
	Contractors.
SUBSECTION:	103.02 Award of Contract.
REVISION:	Replace the first sentence of the third paragraph with the following:
	The Department will normally award the Contract within 10 working days after the date of
	receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all
	bidders for a period not to exceed 60 calendar days for final disposition of award.
SUBSECTION:	105.02 Plans and Working Drawings.
REVISION:	Insert the following after the fourth paragraph:
	Submit electrical shop drawings, design data, and descriptive literature for materials in electronic
	Submit electrical shop drawings, design data, and descriptive literature for materials in electronic format to the Division of Traffic Operations for approval. Drawings and literature shall be
	submitted for lighting and signal components. Notify the Engineer when submitting information to
	the Division of Traffic Operations. Do not begin work until shop drawings are approved.
	Submit shop drawings for traffic counting equipment and materials in electronic format to the
	Engineer or the Division of Planning. Notify the Engineer when submitting information directly to
	the Division of Planning. Do not begin work until shop drawings are reviewed and approved.
SUBSECTION:	105.03 Record Plans.
REVISION:	Replace the section with the following:
	Record Plans are those reproductions of the original Plans on which the accepted Bid Proposal was
	based and, and signed by a duly authorized representative of the Department. The Department will
	make these plans available for inspection in the Central Office at least 24 hours prior to the time of opening bids and up to the time of letting of a project or projects. The quantities appearing on the
	Record Plans are the same as those on which Bid Proposals are received. The Department will use
	these Record Plans as the controlling plans in the prosecution of the Contract. The Department will
	not make any changes on Record Plans subsequent to their issue unless done so by an approved
	contract modification. The Department will make 2 sets of Record Plans for each project, and will
	maintain one on file in the Central Office and one of file in the District Office. The Department
	will furnish the Contractor with the following: 1 full size, 2 half size and an electronic file copy of
	the Record Plans at the Pre-Construction conference.

(Effective with the July15, 2011 Letting)

SUBSECTION: REVISION:

105.12 Final Inspection and Acceptance of Work.

Insert the following paragraphs after the first paragraph:

Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations within 3 days that all electrical items are complete and ready for a final inspection. A final inspection will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion.

Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items must remain operational until the Division of Traffic Operations has inspected and accepted the electrical portion of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work.

Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work is complete. The Engineer will notify the Division of Traffic Operations that the corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work is required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow up electrical inspection(s). The 90 calendar day allowance is cumulative regardless of the number of follow-up electrical inspections required.

The Department will assume responsibility for the electrical service on a project once the Division of Traffic Operations gives final acceptance of the electrical items on the project. The Department will also assume routine maintenance of those items. Any damage done to accepted electrical work items by other Contractors shall be the responsibility of the Prime Contractor. The Department will not be responsible for repairing damage done by other contractors during the construction of the remaining project.

Failure to complete the electrical corrective work within the 90 calendar day allowance will result in penalties assessed to the project. Penalties will be assessed at ½ the rate of liquidated damages established for the contract.

Replace the following in the second sentence of the second paragraph:

Replace Section 213 with Section 212.

Delete the fifth paragraph from the section.

SUBSECTION: REVISION:

105.13 Claim Resolution Process.

Replace the last sentence of the 3. Bullet with the following:

If the Contractor did not submit an as-bid schedule at the Pre-Construction Meeting or a written narrative in accordance with Subsection 108.02, the Cabinet will not consider the claim for delay.

Delete the last paragraph from the section.

(Effective with the July15, 2011 Letting)

SUBSECTION: REVISION:

106.04 Buy America Requirement.

Replace the section with the following:

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

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

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

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

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

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

Use foreign materials only under the following conditions:

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

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

SUBSECTION: REVISION:

106.10 Field Welder Certification Requirements.

Insert the following sentence before the first sentence of the first paragraph:

All field welding must be performed by a certified welder unless otherwise noted.

SUBSECTION: REVISION:

108.02 Progress Schedule.

Insert the following prior to the first paragraph:

Specification 108.02 applies to all Cabinet projects except the following project types:

- Right of Way Mowing and/or Litter Removal
- Waterborne Paint Striping
- Projects that contain Special Provision 82
- Projects that contain the Special Note for CPM Scheduling

Insert the following paragraph after paragraph two:

Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor's right to delay claims.

Insert the following paragraph after paragraph six:

The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor's requirement to submit a Written Narrative schedule.

(Effective with the July15, 2011 Letting)

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

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

(Effective with the July15, 2011 Letting)

B) Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.

Correct the non-compliant issue within 4 hours from initial notification by the Engineer. If the issue is not corrected within 4 hours from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.

C) Short-term stationary is work that occupies a location for more than 1 hour within a single 24-hour period.

Correct the non-compliant issue within 1 hour from initial notification by the Engineer. If the issue is not corrected within 1 hour from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.

If the Contractor remains in violation of the Maintain and Control of Traffic requirements, or if the Department determines it to be in the public's interest, work will be suspended in accordance with Section 108.08 until the deficiencies are corrected. The Department reserves the right to correct deficiencies by any means available and charge the Contractor for labor, equipment, and material costs incurred in emergency situations.

SUBSECTION:

206.03.02 Embankment

REVISION:

Replace the last paragraph with the following:

When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection $204.03.09\ A$).

SUBSECTION: REVISION:

213.03.03 Inspection and Maintenance.

Replace the last sentence of the second paragraph with the following:

Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7 calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.

Insert the following paragraph after the second paragraph:

When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.

SUBSECTION: PART: REVISION:	213.03.05 Temporary Control Measures. E) Temporary Seeding and Protection. Replace the first paragraph with the following:
	Apply an Annual Rye seed mix at a rate of 100 pounds per acre during the months of March through August. In addition to the Annual Rye, add 10 pounds of German Foxtail-Millet (Setaria italica), when performing temporary seeding during the months of June through August. During the months of September through February, apply Winter Wheat or Rye Grain at a rate of 100 pounds per acre. Obtain the Engineer's approval prior to the application of the seed mixture.
SUBSECTION: PART:	213.03.05 Temporary Control Measures. F) Temporary Mulch.
REVISION:	Replace the last sentence with the following:
	Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover. Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are in installed.
SUBSECTION: REVISION:	303.05 Payment. Replace the second paragraph of the section with the following:
	The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402.
SUBSECTION: PART:	401.02.04 Special Requirements for Dryer Drum Plants. F) Production Quality Control.
REVISION:	Replace the first sentence with the following:
	Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing system of the aggregate feed, asphalt binder feed, or water injection system control occurs.
SUBSECTION: REVISION:	401.02.04 Special Requirements for Dryer Drum Plants. Add the following:
	Part G) Water Injection System. Provided each system has prior approval as specified in Subsection 402.01.01, the Department will allow the use of water injection systems for purposes of foaming the asphalt binder and lowering the mixture temperature for production of Warm Mix Asphalt (WMA).
	Ensure the equipment for water injection meets the following requirements: 1) Injection equipment computer controls are automatically coupled to the plants controls (manual operation is not permitted); 2) Injection equipment has provided a controls that introduce water ratios based on production.
	Injection equipment has variable controls that introduce water ratios based on production rates of mixtures;
	 3) Injects water into the flow of asphalt binder prior to contacting the aggregate; 4) Provides alarms on the water injection system that operate when the flow of water is interrupted or deviates from the prescribed water rate.
SUBSECTION: REVISION:	401.03.01 Preparation of Mixtures. Replace the last sentence of the second paragraph with the following:
	Do not use asphalt binder while it is foaming in a storage tank.
L	

(Effective with the July15, 2011 Letting)

SUBSECTION: REVISION:

401.03.01 Preparation of Mixtures.

Replace the third paragraph and Mixing and Laying Temperature table with the following:

Maintain the temperature of the component materials and asphalt mixture within the ranges listed in the following table:

MIXING AND LAYING TEMPERATURES (°F)						
Material		Minimum	Maximum			
Aggregates		240	330			
Aggregates used with Recycle (RAP)	ed Asphalt Pavement	240	_			
Asphalt Binders	PG 64-22	230	330			
	PG 76-22	285	350			
Asphalt Mixtures at Plant	PG 64-22 HMA	250	330			
(Measured in Truck)	PG 76-22 HMA	310	350			
	PG 64-22 WMA	230	275			
	PG 76-22 WMA	250	300			
Asphalt Mixtures at Project	PG 64-22 HMA	230	330			
(Measured in Truck	PG 76-22 HMA	300	350			
When Discharging)	PG 64-22 WMA	210	275			
	PG 76-22 WMA	240	300			

SUBSECTION: REVISION:

402.01 Description.

Replace the paragraph with the following:

Provide the process control and acceptance testing of all classes and types of asphalt mixtures which may be furnished either as hot mix asphalt (HMA) or warm mix asphalt (WMA) produced with water injection systems.

SUBSECTION REVISION:

402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. Add the following subsection:

402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval.

The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated.

SUBSECTION: REVISION:

402.05.02 Asphalt Mixtures and Mixtures With RAP.

Replace Subsection Title as below:

402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.

SUBSECTION: REVISION:

402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Replace the paragraph with the following:

The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the applicable properties within each sublot and average the sublot pay values to determine the pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.

SUBSECTION: PART: REVISION:	C) Conventional and RAP Mixtures Placed on Shoulders.			
	C) HMA, WMA and RAP Mixtures Placed on Shoulders or Placed as Asphalt Pavement Wedge.			
	 Placed monolithically with the Mainline – Width of 4 feet or less. The Department will pay as mainline mixture. Placed monolithically with the Mainline – Width of greater than 4 feet. The Department will pay as mainline mixture but use 1.00 for the Lane and Joint Density Pay Value for shoulder or Asphalt Pavement Wedge quantities. Placed Separately. The Department will use 1.00 for the Lane and Joint Density Pay Value. 			
SUBSECTION: PART:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.			
REVISION:	Replace the title with the following:			
	D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.			
	Delete the following: D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. The Department will pay as mainline mixture but use a 1.00 pay value for all properties.			
SUBSECTION: PART:	402.05.02 Asphalt Mixtures for Temporary Pavement.			
REVISION:	E) Asphalt Mixtures for Temporary Pavement. Replace E) Asphalt Mixtures for Temporary Pavement with the following:			
	D) Asphalt Mixtures for Temporary Pavement.			
SUBSECTION: PART: TABLES: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures VMA Replace the VMA table with the following:			
	VMA			
	Pay Value Deviation			
	From Minimum 1.00 ≥ min. VMA			
	0.95 0.1-0.5 below min.			
	0.90 0.6-1 0 below min.			
SUBSECTION:	402 05 02 Asphalt Mixtures HMA and WMA Including Mixtures With DAD			
PART:				
TABLES: REVISION:	VMA			
	VMA			
	Pay Value Deviation			
	From Minimum			
	1.00 ≥ min. VMA			
	0.95 0.1-0.5 below min. 0.90 0.6-1.0 below min.			
	(1) > 1.0 below min.			
	7 10 0000 11			

SUBSECTION: PART: TABLE: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option B Mixtures VMA Replace the VMA table with the following:							
			V	MA		7		
			Pay Value	De	viation	1		
				From	Minimum			
			1.00	_	n. VMA			
			0.95		0.5 bel w min.			
			0.9		below min.			
			(2)	> 1.0 t	elow min.			
SUBSECTION: PART: NUMBER: REVISION:	403.03.03 Preparation of Mixture. C) Mix Design Criteria. 1) Preliminary Mix Design. Replace the last two sentences of the paragraph and table with the following: Complete the volumetric mix design at the appropriate number of gyrations as given in the table below for the number of 20-year ESAL's. The Department will define the relationship between ESAL classes, as given in the bid items for Superpave mixtures, and 20-year ESAL ranges as follows:							
						er of Gyr]
		Class	ESAL's (millio	ons)	N _{initial}	N _{design}	N _{max}	
		3	< 3.0 3.0 to < 30.0	0	6 7	50 75	75 115	
		4	≥ 30.0		8	100	160	
SUBSECTION: PART: REVISION:	403.03.09 Leveling and Wedging, and Scratch Course. A) Leveling and Wedging. Replace the first sentence of the first paragraph with the following: Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.							
SUBSECTION:	403.03.09 Leveling and Wedging, and Scratch Course.							
PART: REVISION:	B) Scratch Cou Replace the sec		of the first paragraph	n with th	e followir	ng:		
	Replace the second sentence of the first paragraph with the following: Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.							
SUBSECTION:	407.01 DESCR		ha navaavank with th	10 fc11a	in a.			
REVISION:			he paragraph with the composed of a hot-i			xed aspha	alt mixtu	ire.
SUBSECTION:	409.01 DESCR							
REVISION:	Replace the firs	st sentence of the	he paragraph with the	ne follow	ing:			
	mix asphalt (H	MA) or warm i	ent (RAP) from Dep mix asphalt (WMA)					
SUBSECTION:	410.01 DESCRIPTION. Delete the second sentence of the paragraph.							
REVISION:	Delete the seco	nu sentence of	me paragraph.					

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

SUBSECTION:					
TABLE: REVISION:					
			DENICHEN		,
			DENSITY		
		Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)	
		1.05	95.0-96.5	92.0-96.0	
		1.00	93.0-94.9	90.0-91.9	1
		0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5	1
		0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0	1
		0.75		< 88.0 or > 97.0	
		(1)	< 91.0 or > 97.5		1
	'		•		•
arinar amrah	701.07.02 D:1.	2 11			
SUBSECTION: REVISION:	501.05.02 Ride (end of the first paragraph		
REVISION.	Add the following	ig sentence to the	end of the first paragraph	•	
	The sum of the p	ay value adjustm	ents for the ride quality sh	all not exceed \$0 for the	e project as a
	whole.				
arinan amrair					
SUBSECTION: REVISION:	505.03.04 Detec		following		
REVISION:	Replace the first	sentence with the	e following:		
	Install detectable	warning pavers a	at all sidewalk ramps and o	on all commercial entra	nces according to the
	Standard Drawings.				
SUBSECTION:	505.04.04 Detec	table Warnings			
REVISION:		graph with the fol	llowing:		
	The Department	will measure the	quantity in square feet. A	ll retrofit applications fo	or maintenance
			of existing sidewalks to me		
			t associated with the remoings bid item or incidental t		
		k unless otherwis	-	o the old helli for the ed	mstraction of the
SUBSECTION:	505.05 PAYME				
REVISION:	Add the following	ig to the bid item	table:		
	Code	Pay Item	Pay Unit		
	23158ES505	Detectable W		t	
SUBSECTION:	509.01 DESCRI				
REVISION:	Replace the seco	nd paragraph witl	h the following:		
	Research Prograthe Standard Dralength, material,	m (NCHRP) 350 wings. Obtain the drain slot dimenset or less from the	e of similar units that conf Test Level 3 (TL-3) require Engineers approval priorions and locations typical NCHRP 350 TL-3 for Te	rements and the typical r to use. Ensure the bar features are met and the	features depicted by rier wall shape, e reported maximum

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

SUBSECTION:	601.03.03 Proportioning and Requirements.			
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures			
NUMBER:	2) Mineral Admixtures.			
LETTER:	a) Fly Ash.			
REVISION:	Delete the last sentence of the third paragraph.			
SUBSECTION:	601.03.03 Proportioning and Requirements.			
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures			
NUMBER:	2) Mineral Admixtures.			
LETTER:	b) Ground Granulated Blast Furnace Slag (GGBF Slag).			
REVISION:	Delete the second sentence of the third paragraph.			
SUBSECTION:	601.03.03 Proportioning and Requirements.			
PART:	E) Measuring.			
REVISION:	Add the following sentence:			
RE (ISTOTA	The time to the state of the st			
	Conform to the individual ingredient material batching tolerances in Appendix A.			
	Conform to the marviada ingredient material batching tolerances in Appendix A.			
SUBSECTION:	601.03.09 Placing Concrete.			
PART:	A) General.			
REVISION:	Replace the last sentence of the fourth paragraph with the following:			
	Do not use aluminum or aluminum alloy troughs, pipes, or chutes that have surface damage or for			
	lengths greater than 20 feet.			
	Replace the second sentence of the fifth paragraph with the following:			
	When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the			
	discharge end. Alternate nozzles or restriction devices may be allowed with prior approval by the			
	Engineer.			
SUBSECTION:	605.02.05 Forms.			
REVISION:	Delete the last sentence.			
SUBSECTION:	605.03.04 Tack Welding.			
REVISION:	Replace with the following:			
KE VISIOIV.	replace with the following.			
	The Department does not allow took welding			
	The Department does not allow tack welding.			
GETTP GET COTTO	COC 00 11 G			
SUBSECTION:	606.02.11 Coarse Aggregate.			
REVISION:	Replace with the following:			
	Conform to Section 805, size No. 8 or 9-M.			
SUBSECTION:	609.03.04 Expansion and Fixed Joints.			
PART:	D) Preformed Neoprene Joint Seals.			
REVISION:	Replace the last sentence of paragraph seven with the following:			
KE VISION:	replace the last sentence of paragraph seven with the following.			
	Field onlines will not be allowed during nortial width construction. It is Contractor's near :1:11:			
	Field splices will not be allowed during partial width construction. It is Contractor's responsibility to			
G	determine and install the length of seal required for the joint to barrier wall as per the standard drawing.			
SUBSECTION:	609.03.09 Finish with Burlap Drag.			
REVISION:	Delete the entire section.			
SUBSECTION:	609.04.06 Joint Sealing.			
REVISION:	Replace Subsection 601.04 with the following:			
112 (1510)	Traphage Substitution of the transfer of the t			
	Subsection 606.04.08.			
	300500001 000.04.00.			

GLIDGEGEION	(00.05 P
SUBSECTION: REVISION:	609.05 Payment. Replace the Pay Unit for Joint Sealing with the following:
KE VISION:	Replace the Lay Onit for John Scaning with the following.
	See Subsection 606.05.
SUBSECTION:	701.03.06 Initial Backfill.
REVISION:	Replace the first sentence of the last paragraph with the following:
	When the Contract specifies, perform quality control testing to verify compaction according to KM 64-
	512.
SUBSECTION:	701.03.08 Testing of Pipe.
REVISION:	Replace and rename the subsection with the following:
	701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will
	require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe
	structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of
	the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining
	pipe structures on the project to provide for the minimum inspection requirement. The pipe will be
	selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be
	inspected is at least 50 percent of the total linear feet of all installed pipe on the project.
	Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after
	completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surfacing conflicts with the 30-day minimum, conduct the inspections prior to placement of the
	final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete
	inspection is possible.
	Notify the Engineer immediately if distresses or locations of improper installation are discovered.
	When camera testing shows distresses or improper installation in the installed pipe, the Engineer may
	require additional sections to be tested. Provide the video and report to the Engineer when testing is
	complete in accordance with KM 64-114. Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the
	Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation,
	sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and
	installation thresholds indicated in the table below, provide the Department with an evaluation of each
	location conducted by a Professional Engineer addressing the severity of the deflection, structural
	integrity, environmental conditions, design service life, and an evaluation of the factor of safety using
	Section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD Bridge Design Specifications. Based on the evaluation, the Department may allow the pipe to remain in place at a
	reduced unit price as shown in the table below. Provide 5 business days for the Department to review the
	evaluation. When the pipe shows deflection of 10 percent or greater, remove and replace the pipe. When
	the camera/video or laser inspection results are called into question, the Department may require direct
	measurements or mandrel testing.
	The Cabinet may elect to conduct Quality Assurance verifications of any pipe inspections.
SUBSECTION:	701.04.07 Testing.
REVISION:	Replace and rename the subsection with the following:
	.
	701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet
	along the pipe invert of the structure inspected. When inspection above the specified 50 percent is
	performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03.
	However, if additional distresses or non-conformance is found, the Department will not measure the
	additional inspection for payment.

SUBSECTION: REVISION:	701.05 PAYMENT. Add the following pay item to	the list of pay items:			
112 (12101 (<u>Code</u> <u>Pa</u>	y Item peline Video Inspection	<u>Pay Unit</u> Linear Foot		
SUBSECTION: TABLE: REVISION:	701.05 PAYMENT PIPE DEFLECTION DETERMINED BY CAMERA TESTING Replace this table with the following table and note:				
		PIPE DEFLECT	TION		
	Amount of Deflection	on (%)	Payment		
	0.0 to 5.0	,	100% of the Unit Bid Price		
	5.1 to 9.9		50% of the Unit Bid Price (1)		
	10 or greater]	Remove and Replace		
	(1) Provide Structural Analgallowed to remain in place at the		sed on the structural analysis, pipe may be		
SUBSECTION: TABLE: REVISION:	701.05 PAYMENT PIPE DEFLECTION DETERM Delete this table.	/INED BY MANDREL TE	STING		
SUBSECTION: REVISION:	713.02.01 Paint.				
REVISION:	Replace with the following:				
	Conform to Section 842 and Section 846.				
SUBSECTION:	713.03 CONSTRUCTION.				
REVISION:	Replace the first sentence of the second paragraph with the following:				
	On interstates and parkways, and other routes approved by the State Highway Engineer, install pavemen striping that is 6 inches in width.				
SUBSECTION: REVISION:	713.03.03 Paint Application. Replace the second paragraph with the following table:				
	Material	Paint Application Ra			
	4 inch waterborne paint	Min. of 16.5 gallons/			
	6 inch waterborne paint	Min. of 24.8 gallons/mi			
SUBSECTION:	6 inch durable waterborne pai 713.03.04 Marking Removal.	int Min. of 36 ganons/mi	le Min. of 6 pounds/gallon		
REVISION:	Replace the last sentence of the	e paragraph with the followi	ing:		
	Vacuum all marking material and removal debris concurrently with the marking removal operation.				
SUBSECTION:	713.05 PAYMENT.				
REVISION:	Insert the following codes and	pay items below the Paveme	ent Striping – Permanent Paint:		
	Code Pay Item		Pay Unit		
		erborne Marking – 6 IN W	Linear Foot		
	24190ER Durable Water	erborne Marking – 6 IN Y	Linear Foot		
	24191ER Durable Water	erborne Marking – 12 IN W	Linear Foot		
	i e				

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

SUBSECTION:	717.03.05 Proving Period.				
PART:	A) Requirements.				
REVISION:	Insert the following to this section:				
	of failure due to blistering, excepavement materials, drippings, retroreflectivity, vehicular dama warranted by the manufacturer adequately bonded to the surfact Subsection 714.03.06 A) 1), ret	oving period, ensure that the pavement marking materies is cracking, bleeding, staining, discoloration, oil conchipping, spalling, poor adhesion to the pavement, los age, and normal wear. Type I Tape is manufactured on to meet certain retroreflective requirements. As long are and shows no signs of failure due to the other items roreflectivity readings will not be required. In the abserbased on a nighttime visual observation.	ontent of the s of ff site and as the material is listed in		
SUBSECTION: REVISION:	717.03.06 Marking Removal. Replace the third sentence of the paragraph with the following:				
	Vacuum all marking material and	nd removal debris concurrently with the marking remo	oval operation.		
SUBSECTION: REVISION:	717.05 PAYMENT. Insert the following bid item co	des:			
SUBSECTION: REVISION:	miscellaneous metal v For the SCI100GM fe	owing: owing: own as developed by SCI Products, Inc. of St. Charles, I work conform to ASTM A 36 and galvanize according nder panels conform to AASHTO 180. Galvanize the	to ASTM A 123. SCI100GM fender		
SUBSECTION: REVISION:	panels and SCI100GM -beam connectors after fabrication according to ASTM A 123. 725.02.04 Type VII Class C. Replace bullet 2) with the following: 2) The SCI100GM System as developed by SCI Products, Inc. of St. Charles, Illinois. For all miscellaneous metal work conform to ASTM A 36 and galvanize according to ASTM A 123. For the SCI100GM fender panels conform to AASHTO 180. Galvanize the SCI100GM fender panels and SCI100GM-beam connectors after fabrication according to ASTM A 123.				
SUBSECTION: REVISION:	801.01 REQUIREMENTS.				
		SO ₃ content above the value in table I of ASTM C 150 ay expansion test data for the supplied SO ₃ content on			

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

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

(Effective with the July15, 2011 Letting)

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

					S	ZES C	SIZES OF COARSE AGGREGATES	RSE AC	GREG	ATES							
	Sieve		Α	MOUNTS	AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT	AN EACH	I LABORAT	ORY SII	EVE (SQU,	ARE OPEN	INGS) PEF	CENTAGE	BY WEIG	THE			
Aggregate Size	Nominal ⁽³⁾ Maximum Aggregate Size	4 inch	3 1/2 inch	3 inch	2 1/2 inch	2 inch	1 1/2 inch	1 inch	3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 ½ inch	100	90-100		25-60		0-15		0-5								
2	2 1/2 inch			100	90-100	35-70	0-15		0-5								
23	2 inch			100		40-90		0-15		0-5							
3	2 inch				100	90-100	35-70	0-15		0-5							
357	2 inch				100	95-100		35-70		10-30		0-5					
4	1 1/2 inch					100	90-100	20-55	0-15		0-5						
467	1 1/2 inch					100	95-100		35-70		10-30	0-5					
5	1 inch						100	90-100	20-55	0-10	0-5						
57	1 inch						100	95-100		25-60		0-10	0-5				
610	1 inch						100	85-100		40-75		15-40					
67	3/4 inch							100	90-100		20-55	0-10	0-5				
68	3/4 inch							100	90-100		30-65	5-25	0-10	0-5			
710	3/4 inch							100	80-100		30-75	0-30					
78	1/2 inch								100	90-100	40-75	5-25	0-10	0-5			
8	3/8 inch									100	85-100	10-30	0-10	0-5			
9-M	3/8 inch									100	75-100	0-25	0-5				
$10^{(2)}$	No. 4										100	85-100				10-30	
11(2)	No. 4										100	40-90	10-40			0-5	
DENSE GRADED AGGREGATE (I)	3/4 inch							100	70-100		50-80	30-65			10-40		4-13
CRUSHED STONE BASE (II)	1 ½ inch				100		90-100		60-95		30-70	15-55			5-20		0-8
(I) Gradation	Cradation northward by wat signs VA 62 62 0 at AAST TILL 27	week cir	VN 61	630	· AACHTA	T 117	2,										

© 2

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

Gradation performed by wet steve KM 04-020 or AASHIO 1-11/1-27.

Sizes shown for convenience and are not to be considered as coarse aggregates.

Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition (Effective with the July15, 2011 Letting)

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

Contract ID: 114017 Page 111 of 154

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

(Effective with the July15, 2011 Letting)

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

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

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

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

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

DURABLE W	ATERBORN	IE PAVEME	NT STRIPIN	G PAINT RI	EDUCTION S	CHEDULE
Non- conforming Property	Resin	Color	Contrast	TiO ₂	VOC	Heavy Metals Content
Reduction Rate	60%	10%	10%	10%	60%	60%

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition (Effective with the July15, 2011 Letting)

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

STANDARD DRAWINGS THAT APPLY

ROADWAY ~ BARRIERS ~

TYPICAL BARRIER INSTALLATIONS	
TYPICAL GUARDRAIL INSTALLATIONS	RBI-001-09
TYPICAL GUARDRAIL INSTALLATIONS	RBI-002-06
<u>GUARDRAIL HARDWARE</u>	
STEEL BEAM GUARDRAIL (W-BEAM)	
GUARDRAIL COMPONENTS	
GUARDRAIL TERMINAL SECTIONS	
GUARDRAIL POSTS	
GUARDRAIL POSTS	KBK-010-04
~ DRAINAGE ~	
PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS	
CHANNEL LINING CLASS II AND III	RDD-040-04
PIPE AND BOX CULVERT AND HEADWALLS	
FOR AQLL PIPE AND BOX CULVERT HEADWALLS (RDH SERIES) SEE HEADWALL SUPPLEMENT	Γ
TYPICAL DRAINAGE INSTALLATIONS	
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS	
NON-CIRCULAR PIPE ALTERNATES PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER PIPE	
PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER FIFE PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER REINFORCED CONC. PIPE	
PIPE BEDDING, TRENCH CONDITION	
PIPE BEDDING, TRENCH CONDITION REINFORCED CONC. PIPE	
COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE	
FILL HEIGHTS FOR PRECAST REINFORCED CONCRETE BOX CULVERTS	
BEDDING FOR PRECAST BOX CULVERTS, SEWERS, STORM DRAINS AND THEIR COMBINATION	NSRDI-120-03
MISCELLANEOUS DRAINAGE	
SILT TRAP - TYPE A	PDV 220 04
SILT TRAP - TYPE B	
SILT TRAP - TYPE C	
~ FENCES AND GATES ~	
<u>CHAIN LINK FENCE</u>	
CHAIN LINK FENCE 4' TO 6' HIGH.	RFC-001-07
CHAIN LINK FENCE 8' TO 12' HIGH	
<u>GATES</u>	
WOVEN WIRE GATES	
4' TO 12' HIGH CHAIN LINK GATE	RFG-005-05
WOVEN WIDE EENCE	
WOVEN WIRE FENCE FENCING DETAILS	REW 001 04
WOVEN WIRE FENCE TYPE 1	
WOVEN WIRE FENCE TYPE 2	
	14 ,, 000 00

~ *GENERAL* ~ MISCELLANEOUS STANDARDS

WISCELLANEOUS STANDARDS	
MISCELLANEOUS STANDARDS PART 1	
TYPICAL EMBANKMENT FOUNDATION BENCHES	RGX-010-03
ONE POINT PROCTER FAMILY OF CURVES	RGX-200
~ PAVEMENT ~	
MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.	
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK	RPM-150-06
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK	RPM-152-06
TRAFFIC	
~ TEMPORARY ~	
TRAFFIC CONTROL	
LANE CLOSURE TWO-LANE HIGHWAY CASE I	TTC-100-01
SHOULDER CLOSURE	TTC-135-01
<u>DEVICES</u>	
POST SPLICING DETAIL	TTD-110-01

STANDARD DRAWINGS HEADWALL SUPPLEMENT THAT APPLY

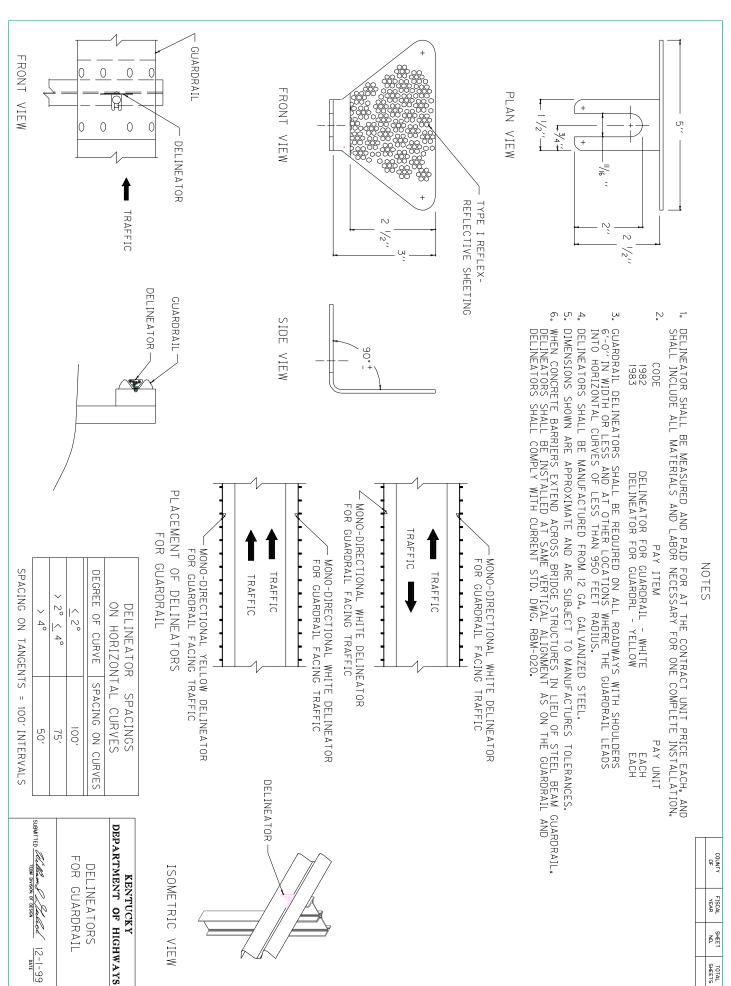
ROADWAY

~ PIPE AND BOX CULVERT HEADWALLS ~

BOX CULVERT HEADWALLS

3' X 2' – 12' X 12' SINGLE LINE BOX

PRECAST BOX CULVERT HEADWALLS - 0° SKEW (BOX RISE LESS THAN 6'- 0")	
(LAYOUT AND STEEL PATTERN)	RDH-1000-02
PRECAST BOX CULVERT HEADWALLS - 0° SKEW (BOX RISE 6'- 0" OR GREATER)	
(LAYOUT AND STEEL PATTERN)	RDH-1005-02
PRECAST BOX CULVERT HEADWALLS - 15° - 30° AND 45° SKEW (BOX RISE LESS	
THAN 6'-0") (LAYOUT AND STEEL PATTERN)	RDH-1010-02
DIMENSIONS 3' X 2' - 6' X 6' HEADWALLS, PRECAST BOX CULVERT - 0° SKEW	RDH-1100-02
DIMENSIONS 7' X 4' – 9' X 9' HEADWALLS, PRECAST BOX CULVERT - 30° SKEW	RDH-1145-02
QUANTITIES 3' X 2' – 12' X 12' HEADWALLS, PRECAST BOX CULVERTS - 0° SKEW	RDH-1200-02
OUANTITIES 3' X 2' – 12' X 12' HEADWALLS, PRECAST BOX CULVERTS - 30° SKEW	RDH-1210-02



LOGAN COUNTY Contract ID: 114017 17 of 154 **HSIP** STORM SEWER PIPE TYPES 04-25-08 DEPARTMENT OF HIGHWAYS 60 65 60-65 SHEET NO. CULVERT, ENTRANCE & 14 GA. CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.) COVER HEIGHTS 12 GA. ĞĀ. 12" PIPE - 24" PIPE 55-60 55-CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.) 2 CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.) ITEM NO. KENTUCKY Ğ. TEBU ON SOW OF BESIGN 55 55 0 COUNTY OF 45-50 45-50 ĞĀ. 14 GA. RCP: CIRCULAR REINFORCED CONCRETE PIPE ంర 14 GA. APPROVED ___ HDPE: HIGH DENSITY POLYETHYLENE PIPE 0 40-45 49-CIRCULAR PIPE COVER HEIGHTS IN FEET ĞĀ. 35-40 35-40 2 LEGEND FF: FLOWABLE FILL REQUIRED ω SRA: SPIRAL RIB ALUMINUM 30-35 PVC: POLYVINYL CHLORIDE SHEET 1 OF SRS: SPIRAL RIB STEEL GA. 25-30 25-30 16 GA SEE DETAIL SHEET "PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER REINFORCED CONC. PIPE" AND DETAIL SHEET "PIPE BEDDING TRENCH CONDITION REINFORCED CONC. PIPE" FOR RCP COVER HEIGHT AND BEDDING REQUIREMENTS. 14 GA. 2 14 GA. 16 GA. WALL) RIBBED (PROFILE WALL) 20-25 20-25 16 GA. (PROFILE GA. GA. 16 GA. 20 15-ڡ 16 GA. 9 ĞĀ. 16 GA. RIBBED (9 <u>ე</u> ლ Ģ ₹ ĞĀ. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.
MINIMUM COVER HEIGHTS FOR PIPE SHALL BE 2 FEET. GAGE OF PIPE FOR COVER HEIGHTS
LESS THAN 2 FEET SHALL BE THAT SHOWN FOR COVER HEIGHTS OF 30 FEET (SEE STD. SPECIFICATIONS FOR BACKFILL). HOPE AND PVC SHALL NOT BE PERMITTED FOR COVER HEIGHTS LESS THAN 2 FEET. 9 5 5 5 5 WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES. 2-2 5 -2 2%.x 1/2" CSPHS() 2%.x 1/2" CSPLS() 2%3" x 1/2" CAPHS 2%3"×1/2" CSPHS(1) 2%3"×1/2" CSPLS(1) 2%3"×1/2" CAPHS " CSPLS(1 PIPE TYPE \in GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9 HDPE HDPE PVC SRA SRS SRA SRS PVC GAGE OF ENTRANCE PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL MEET THE FOLLOWING REOUIREMENTS: 24" DIA. PIPE IS MINIMUM SIZE FOR COVER HEIGHTS FROM 30 FEET TO 65 FEET. 9. ALL CIRCULAR STRUCTURAL PLATE SHALL DE JON PENTONION : LININGS AND PAVINGS OF COATINGS, LININGS AND PAVINGS b. GAGE OF CAP SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLE. DIA. PIPE Ŝ 24 7 (9) a. GAGE OF CSP SHALL BE THAT SHOWN FOR HEIGHTS OF 30 FEET. MINIMUM COVER HEIGHT FOR ENTRANCE PIPE SHALL BE 0.5 FEET. 25-30 NOTES 25-30 SMOOTH WALL (SOLID WALL) CIRCULAR PIPE COVER HEIGHTS IN FEET RIBBED (PROFILE WALL) 20-20-25 CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. 15-20 20 2 16 GA. 16 GA. ĞĀ. 16 GA. 16 GA. ĞĀ. 16 GA. Š 9 9 -- € ₽ 2 5 2 5-7-7 م 2%3"×1/2" CSPHS(T) 2%3"×1/2" CSPLS(T) 23/3" × 1/2" CAPHS 2¾..×1/2... CAPHS SRS (1 CSPHS(PIPE TYPE HDPE HDPE SRA PVC RCP PVC RCP DIA. \equiv PIPE œ بر ® Ŝ ď **დ. 4**. ŗ. **८** ∞ ७ ∞

OGA! ISIP _£ 9	V COI	UNTY (054)						~									YS	١	بر م	Contract I	₽ 8 of 15
TY OF TTEM NO. SHEET		HELICAL CORR.) JINAL AR CORR.)	H HELICAL					SEE DETAIL SHEET "PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER REINFORCED CONC. PIPE" AND DETAIL SHEET "PIPE BEDDING TRENCH CONDITION REINFORCED CONC. PIPE" FOR RCP COVER HEIGHT AND BEDDING REQUIREMENTS.								IPE - 42" PIPE	KENTUCKY	ه شا	SEWER PIPE IYPES COVER HEIGHTS	Mary of Beson 04-25	0
COUNTY		H HELICAL NED SEAM (H LONGITUE AM (ANNUL	Y PIPE WIT	E PIPE			1UED	FOR CULVEI C. PIPE" A REINFORCEE GUIREMENT								27" PIPE	KEN1 DEPARTMENT		2 8 8 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	APPROVED	
		LEGEND CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL C CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)	CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.) HDPE: HIGH DENSITY POLYETHYLENE PIPE	POLYVINYL CHLORIDE SPIRAL RIB STEEL SPIRAL RIB ALUMINUM CIRCULAR REINFORCED CONCRETE	ŒD		S CONTINUED	BEDDING PORCED CON ONDITION PREDDING RE												0F 8	
		LEGEND TED STEEL PI AM OR HELICA TED STEEL PI OR SPOT WEL	TED ALUM) AM (HELIC/SITY POLYE	POLYVINYL CHLORIDE SPIRAL RIB STEEL SPIRAL RIB ALUMINUM CIRCULAR REINFORCED	FF: FLUWABLE FILL REUUIKED		NOTES	EET "PIPE WER REINF TRENCH C IGHT AND E												SHEET 2	
			CORRUGA LOCK SE HIGH DENS	PVC: POLYVINYL OSRS: SPIRAL RIB SRA: SPIRAL RIB RCP: CIRCULAR RI	OWABLE F			DETAIL SH STORM SE E BEDDING COVER HEI								o [°]					
		CSPHS;	CAPHS:	SRS: SRA: SRA: SRA: SRA: SRA: SRA: SRA:	 			O SEE AND AND AND AND RCP								S OF 5 TO R				AL PIPE.	
	-09				10 GA.	8 GA.			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		GA.			65 65		GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TARIFS.	N 2 FEET.	SOVERN		FOR NON-STRUCTURAL	
<u>(5</u>	50-	55 6 6 66.			12 GA.	10 GA. GA.				GA.	8			50- 55- 55 60		ATED TYPE ITTED IN E ONE GA	LESS THAN	ELEVATION SHALL GOVERN		FOR NON-	
IN FEET		14 GA 12 GA.	10 GA			12 (10 GA.		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0	10 GA. 12 GA.	GA.		- 45-		IINUM-COA ILY PERM SHALL B	COVER HEIGHTS	ELEVATIO		D. PAVINGS	
HEIGHTS IN		6A.				GA.					_	01		35- 40- 40 45		ON ALUM EL IS ON HE GAGE	· COVER	핑		AGA LE	
COVER HE		12 G	Z CA.		10 GA.	12				12 GA.				35		E BASED PE 2 STE ANIZED) T	SEE CURRENT STANDARD DRAWING RDI-OOI FOR EXPLANATION OF	CSF, CAF, SAS AND SKA ARE SHOWN IN CACE. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUB GRAI CAACE OF PIPE TO RE ISEN FOR ENTIRE IENCTH OF PIPE INSTALLATE	0.5 FEE	ALL CIRCULAR SIRUCIURAL PLAIE SHALL BE 5% VERIICALLY ELON ENTRANCE PIPE GREATER THAN 30% DIA. SHALL BE CULVERT PIPE. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS	
PIPE CC	35"	6A.			GA.		12 GA. WALL)	35			12 GA.			- 25-	NOTES	OWN ARE TED TYP D (GALV)	EXPLAN	OF PIPE	HALL BE	Z VERTI BE CUL COATIN	
CIRCULAR F		<u> </u>	ILE WALL)		4-	GA. 14 GA.			45 45	-	12 GA.	N N	1 / / /	15- 20- 20 25	z	TEMS SH JUM COA COATE	001 FOR	M TOP	PIPE S	LL BE 5 . SHALL 035 FOR	
CIRC	-01	15 5 GA.	6 GA. 14 RIBBED (PROFILE			14 GA.	14 GA. RIBBED (PROFILE			14 GA.	4	12 GA.	LUCATION	-01		PIPE I ALUMIN IS ZINC	DRAWING RDI-001 FOR	RED FRO	TRANCE	ATE SHA 30" DIA NG RDI-	
	-5 -	$\exists \mid \mid$	I6 GA. RIBBE		14 GA.		14 RIBBI					PIRRED (5-		M-274.	DRAWII	MEASU	FOR EN	IRAL PLA R THAN DORAWI	
	2-			9		<u>S</u> (=)		9	\\		<u>S</u> ∈			2-5		RUGATEC AASHTO ED STEE	TANDAR	AND SRA	HEIGHT	GREATE TANDARE	
	TYPE	233."×1/2." CSPHS(1) 233."×1/2." CSPLS(1) 293."×1/2." CAPHS SRS (1)	SKA PVC HDPE	<u>م</u>	2%3"×1/2" CSPHS(1) 2%3"×1/2" CSPLS(1)	×½″ CAPH SRS	SRA	HOPE RCP	SPECTOR STATE	2%, × 1/2" CSPLS(1)	× ½″ CAPH SRS	SRA	HOPE			OR COR	RENT S	CAF, SRS AND SRA MUM COVER HEIGHT OF PIPF TO BF LISE	COVER	ALL CIKCULAK SIRUCIUKAL PLAIE SHALL BE ENTRANCE PIPE GREATER THAN 30" DIA. SHAL SEE CURRENT STANDARD DRAWING RDI-035 FO	
	PIPE	2%3 "x \/ 2%3 "x \/ 2%3 "x \/ Sf	지요 모	RCP	2%3′′×¹/ 2%3′′×¹/	2%3"×, SF	S	HDP	727×17.	2% ×/	2%3"'×, SF	S Q	T H M			GAGES F STEEL A WHEN CC	SEE CUR	MAXIMUN	MINIMUM	ALL CIRCULAR ENTRANCE PIP SEE CURRENT	
PIPE	DIA.		. % S					o C				7	 7			⊖ %	<u></u>			. ® ღ	

LOGAN COUNTY Contract ID: 114017 age | 19 of 154 **HSIP** SEWER PIPE TYPES DEPARTMENT OF HIGHWAYS 115-120 15-04-25-SHEET CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.) COVER HEIGHTS 48" PIPE - 54" PIPE -01 ITEM NO. -01 15 CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.) CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.) CULVERT & KENTUCKY TEBM ON SHOW OF BESIGN 105--50 COUNTY OF 00 105 <u></u>62 RCP: CIRCULAR REINFORCED CONCRETE PIPE STORM ంర APPROVED_ HDPE: HIGH DENSITY POLYETHYLENE PIPE 95-100 95-100 LEGEND 95 95 ω SRA: SPIRAL RIB ALUMINUM PVC: POLYVINYL CHLORIDE SHEET 3 OF SRS: SPIRAL RIB STEEL 85-90 985 10 GA. SEE DETAIL SHEET "PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER REINFORCED CONC. PIPE" AND DETAIL SHEET "PIPE BEDDING TRENCH CONDITION REINFORCED CONC. PIPE" FOR RCP COVER HEIGHT AND BEDDING REQUIREMENTS. 80-85 80-85 CIRCULAR PIPE COVER HEIGHTS IN FEET ⁷⁵ ⁷⁵-88 ĞĀ. 10 GA. ω Š 55 55 0 GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES. 65-70 65-70 SEE CURRENT STANDARD DRAWING RDI-OOI FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET. 60-65 60-65 8 GA. ω 55-60 55-60 8 GA. Ğ. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED. 9 50-55 50-55 45-50 45-50 54" DIA, PIPE IS MINIMUM SIZE FOR COVER HEIGHTS GREATER THAN 65 FEET. 12 GA. 12 GA. 10 GA. 12 GA. 40-45 45 G**A.** 10 GA. ĞĀ. ĞĀ. ĞĀ. 0 ĞĀ. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE. 2 2 ⊴ 35-40 35-40 Ğ. 0 Ğ ĞĀ. 2 2 ≥ 30-35 30-GA. 0 2 25-30 25-30 ĞĀ. 2 20-25 20-25 CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE. Ğ. Ğ. NOTES 14 GA. WALL) 14 GA. 14 GA. 15-20 15-2 4 12 GA. 14 GA. 12 GA. ĞΑ (PROFILE 14 GA. ⁻0 € GA. GA. ⁻ 5 14 GA. 4 ĞÅ. 7 2 4 - 2 5 5 RIBBED 5 2 2 2 2%3"×1/2" CSPHS(1) 2%3"×1/2" CSPLS(1) 2%3"×1/2" CAPHS SRS (1) (6 2%3"×½" CSPHS(1 2%3"×½" CSPLS(1 3"×I" CSPHS (1 23".x1/2" CAPHS 3".x1" CAPHS TYPE 3"x1" CSPLS 5"x1" CSPHS SRS SRA HOPE RCP RCP SRA PVC PIPE

ဖွဲ့ ြ ဖွဲ

დ 4 ი

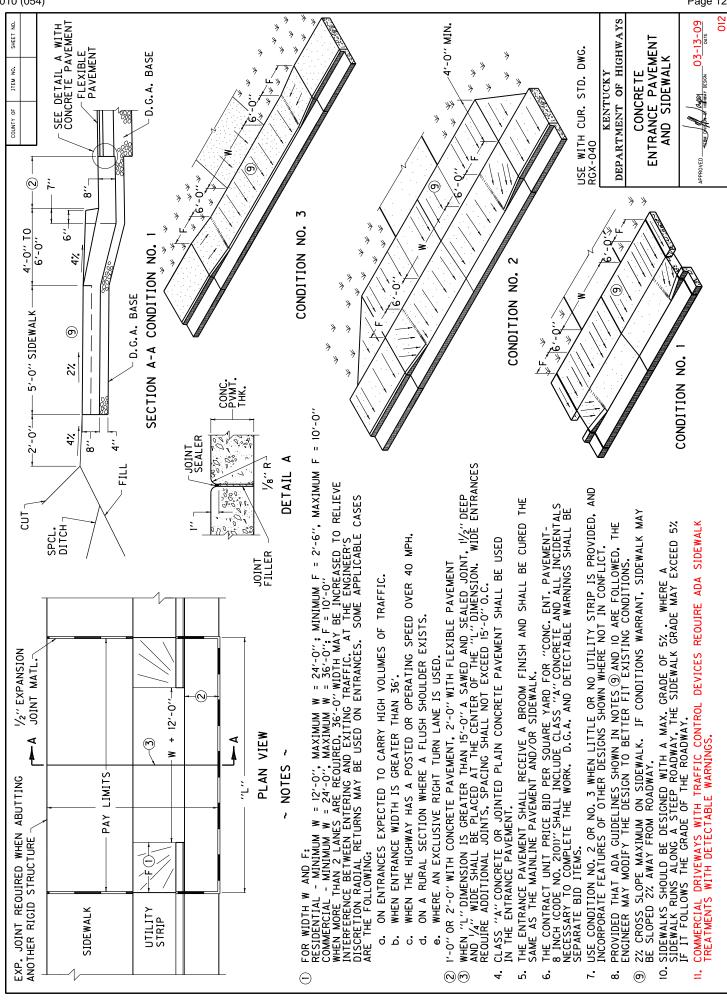
PIPE DIA.

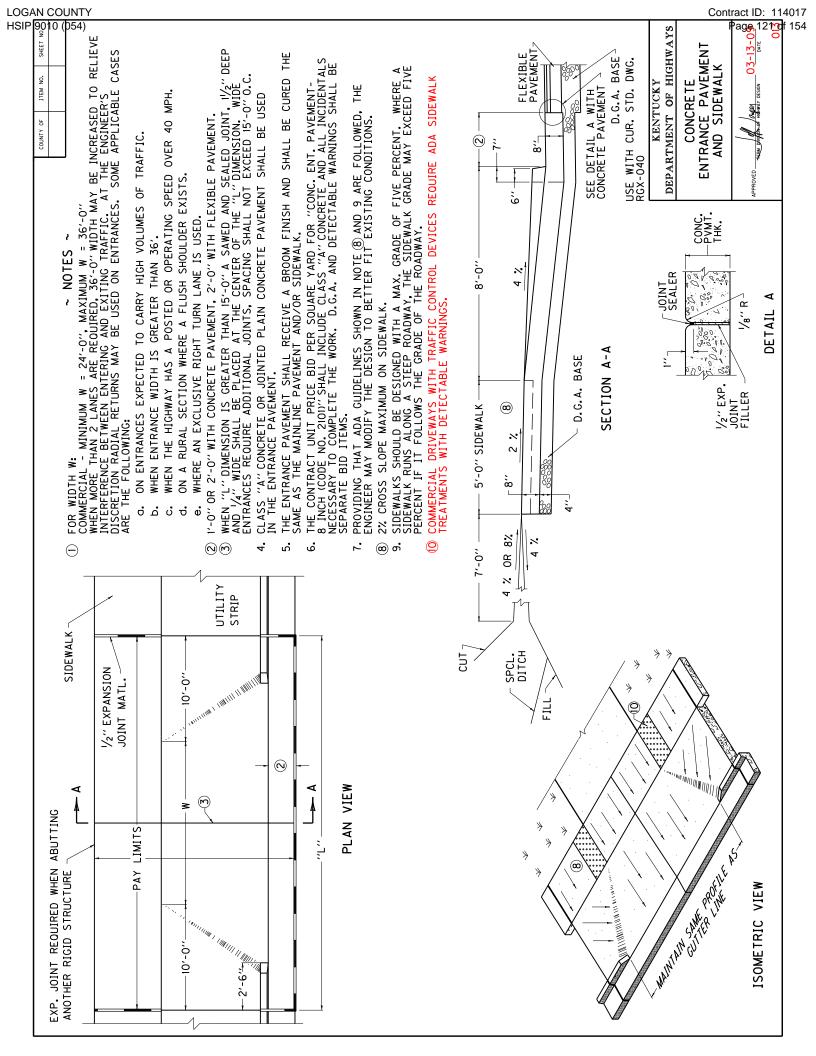
Ŝ

48

54

(P)





PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

	5	
		age
I.	General	1
II.	Nondiscrimination	1
III.	Nonsegregated Facilities	3
IV.	Payment of Predetermined Minimum Wage	3
٧.	Statements and Payrolls	6
VI.	Record of Materials, Supplies, and Labor	6
VII.	Subletting or Assigning the Contract	7
VIII.	Safety: Accident Prevention	7
IX.	False Statements Concerning Highway Projects	7
Χ.	Implementation of Clean Air Act and Federal	
	Water Pollution Control Act	8
XI.	Certification Regarding Debarment, Suspension,	
	Ineligibility, and Voluntary Exclusion	8
XII.	Certification Regarding Use of Contract Funds for	
	Lobbying	9

ATTACHMENTS

A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

I. GENERAL

- 1. 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.
- 2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.
- A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.
- 4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2; Section IV, paragraphs 1, 2, 3, 4, and 7; Section V, paragraphs 1 and 2a through 2g.

- 5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 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 DOL, or the contractor's employees or their representatives.
- 6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

- a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or
- b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

- 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 and 41 CFR 60) 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 Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American 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 State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.
- b. The contractor will accept as his 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, preapprenticeship, and/or on-the-job training."

- 2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO 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 minority group employees.
- 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 minority groups 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 minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group 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, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)
- c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group 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 takecorrective 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 his 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 his avenues of appeal.

6. Training and Promotion:

- a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.
- 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. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.
- 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 minority group and women employees 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 his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. 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 best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.
- b. The contractor will use best 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 SHA 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 minority and women referrals within thetime 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 minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) 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 SHA.

- 8. 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.
- a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.
- b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.
- c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.
- 9. **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 completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.
- a. The records kept by the contractor shall document the following:
- (1) The number 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;
- (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and
- (4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.
- b. The contractors will submit an annual report to the SHA 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. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

- a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.
- b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).
- c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers 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 (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) 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. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, 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 paragraphs 4 and 5 of this Section IV.

- b. 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.
- c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

- a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.
- b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:
- (1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;
- (2) the additional classification is utilized in the area by the construction industry;
- (3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and
- (4) with respect to helpers, when such a classification prevails in the area in which the work is performed.
- c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification 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 DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour 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.
- d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional 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. Said 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

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

- a. 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 or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.
- b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a 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.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

- (1) 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 DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/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 Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.
- (2) The allowable ratio of apprentices to journeyman-level employees 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 employee 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 listed in 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 or subcontractor 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-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.
- (3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level ofprogress, expressed as a percentage of the journeyman-level 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 for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

- (1) 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 DOL, Employment and Training Administration.
- (2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. 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.
- (3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level 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-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.
- (4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor 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. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wagedetermination for the classification of work actually performed.

5. 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.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor 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, as 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 SHA contracting officer 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.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her 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, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies 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 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

- a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.
- b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof 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. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found 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 and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.
- c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.
- d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;
- (2) that such 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 the Regulations, 29 CFR 3;
- (3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.
- e. 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 2d of this Section V.
- f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.
- g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, 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 SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions 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.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

- 1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:
- a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.
- b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.
- c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.
- At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

- 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 State. 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).
- a. "Its own organization" shall be construed to include only workers employed and paid directly 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, assignee, or agent of the prime contractor.
- 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 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 VII 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 SHA 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 SHA 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 SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

- 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 provideall safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA 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. 333).

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. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

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, the following notice 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:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

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 not more that \$10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more.)

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

- 1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.
- 2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.
- 3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities
- 4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective primary 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 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 primary 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 department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowinglyrendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
- d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary 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," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which

this proposal is submitted for assistance in obtaining a copy of those regulations.

- f. The prospective primary 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 primary 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 Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
- 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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.
- i. 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.
- 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.

* * * * *

Contract ID: 114017 Page 131 of 154

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

- 1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement 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;
- c. 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 1b of this certification; and
- d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

$2. \ \mbox{Instructions} \ \mbox{for Certification} \ \mbox{--} \ \mbox{Lower Tier Covered Transactions:}$

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

- 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," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

- 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.
- 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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List
- 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 Covered Transactions:

- 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 participation in this transaction 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.

* * * *

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(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 his or her bid or proposal that he or she 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.

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 otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.
- 3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to

provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

REVISED: 12-3-92

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

General Decision Number: KY100214 08/19/2011 KY214

State: Kentucky

Construction Type: Highway

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

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

Modification Nu	umber	Publication	Date
0		10/22/2010	
1		01/28/2011	
2		03/25/2011	
3		04/01/2011	
4		05/27/2011	
5		06/03/2011	
6		07/01/2011	
7		07/08/2011	
8		07/22/2011	
9		07/29/2011	
10		08/05/2011	
11		08/12/2011	
12		08/19/2011	

BRIN0004-002 06/01/2011

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

	Rates	Fringes
BRICKLAYER	.\$ 28.47	12.78
BRTN0004-005 05/01/2009		

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

	Rates	Fringes
BRICKLAYER	\$ 24.52	1.83
CARP0357-002 07/01/2011		

	Rates	Fringes
CARPENTER Diver PILEDRIVERMAN	\$ 39.30	13.22 13.22 13.22
ELEC0369-006 05/26/2010		
BUTLER, EDMONSON, LOGAN, TODD & W.	ARREN COUNTIES:	
	Rates	Fringes
ELECTRICIAN	\$ 29.27	13.08
ELEC0429-001 02/01/2010		
ALLEN & SIMPSON COUNTIES:		
	Rates	Fringes
ELECTRICIAN	\$ 21.85	10.35
* ELEC0816-002 06/01/2011		
BALLARD, CALDWELL, CALLOWAY, CARL FULTON (Except a 5 mile radius of HICKMAN, LIVINGSTON, LYON, MARSHA	City Hall in F	ulton), GRAVES,
	Rates	Fringes
ELECTRICIAN	\$ 29.47 2	5.5%+5.35
Cable spicers receive \$.25 per ho	ur additional.	
ELEC1701-003 06/01/2010		
DAVIESS, HANCOCK, HENDERSON, HOPK UNION & WEBSTER COUNTIES:	INS, MCLEAN, MU	HLENBERG, OHIO,
	Rates	Fringes
ELECTRICIAN Electrician	\$ 29.01 27	.85%+5.34
Splicing		.85%+5.34
ELEC1925-002 06/01/2009		
FULTON COUNTY (Up to a 5 mile rad	ius of City Hal	l in Fulton):
	Rates	Fringes
CABLE SPLICER	\$ 24.50	10.27 10.26
ENGI0181-017 07/01/2011		_
	Rates	Fringes

Operating Engineer:		
GROUP 1\$	26.50	13.00
GROUP 2\$	24.08	13.00
GROUP 3\$	24.46	13.00
GROUP 4\$	23.82	13.00

OPERATING ENGINEER CLASSIFICATIONS

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

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.);
Bituminous Mixer; Boom Type Tamping Machine; Bull Float;
Concrete Mixer (Under 21 cu. ft.); Dredge Engineer;
Electric Vibrator; Compactor/Self-Propelled Compactor;
Elevator (One Drum or Buck Hoist); Elevator (When used to
Hoist Building Material); Finish Machine; Firemen & Hoist
(One Drum); Flexplane; Forklift (Regardless of Lift
Height); Form Grader; Joint Sealing Machine; Outboard Motor
Boat; Power Sweeper (Riding Type); Roller (Rock); Ross
Carrier; Skid Mounted or Trailer Mounted Conrete Pump; Skid
Steer Machine with all Attachments; Switchman or Brakeman;
Throttle Valve Person; Tractair & Road Widening Trencher;
Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger;
Welding Machine; Well Points; Whirley Oiler

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

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

CRANES - with booms 150 ft. & Over (Including JIB), and where

the length of the boom in combination with the length of the piling equals or exceeds 150 ft. - \$1.00 above Group 1 rate

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

IRON0070-005 06/01/2011

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

Rates Fringes

Ironworkers:

Structural; Ornamental; Reinforcing; Precast

Concrete Erectors......\$ 25.77 18.28

IRON0103-004 04/01/2011

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

BUTLER COUNTY (Townships of Aberdeen, Bancock, Casey, Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport, Monford, Morgantown, Provo, Rochester, South Hill & Welchs Creek);

CALDWELL COUNTY (Northeastern third, including the Township of Creswell);

CHRISTIAN COUNTY (Northern third, including the Townships of Apex, Crofton, Kelly, Mannington & Wynns);

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

Rates Fringes

Ironworkers:.....\$ 28.25 14.475

IRON0492-003 05/01/2009

ALLEN, LOGAN, SIMPSON, TODD & WARREN COUNTIES
BUTLER COUNTY (Southern third, including the Townships of
Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar
Grove & Woodbury);

CHRISTIAN COUNTY (Eastern two-thirds, including the Townships of Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);

EDMONSON COUNTY (Southern fourth, including the Townships of

Chalybeate & Rocky Hill); MUHLENBERG COUNTY (Southern eighth, including the Townships of Dunnior, Penrod & Rosewood)

	Rates	Fringes
Ironworkers:	\$ 22.50	9.60

IRON0782-006 05/01/2011

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES CALDWELL COUNTY (Southwestern two-thirds, including the Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown, Dulaney, Farmersville, Fredonia, McGowan, Otter Pond & Princeton);

CHRISTIAN COUNTY (Western third, Excluding the Townships of Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);

CRITTENDEN COUNTY (Southwestern half, including the Townships of Crayne, Dycusburg, Frances, Marion, Mexico, Midway, Sheridan & Told)

	Rates	Fringes	
Ironworkers:			
Projects with a total			
contract cost of			
\$20,000,000.00 or above.	\$ 26.00	17.42	
All Other Work	\$ 24.66	16.29	

LABO0189-005 07/01/2010

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

	I	Rates	Fringes
Laborers:			
GROUP	1\$	20.13	10.83
GROUP	2\$	20.30	10.83
GROUP	3\$	20.43	10.83
GROUP	4\$	21.03	10.83

LABORER CLASSIFICATIONS

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

Wrecking of Concrete Forms; General Cleanup

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

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

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

LABO0189-006 07/01/2010

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

	F	Rates	Fringes
Laborers:			
GROUP	1\$	21.16	9.80
GROUP	2\$	21.41	9.80
GROUP	3\$	21.46	9.80
GROUP	4\$	22.06	9.80

LABORER CLASSIFICATIONS

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

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

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

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

LABO0189-007 07/01/2010

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

	F	Rates	Fringes
Laborers:			
GROUP	1\$	20.31	10.65
GROUP	2\$	20.56	10.65
GROUP	3\$	20.61	10.65
GROUP	4\$	21.21	10.65

LABORER CLASSIFICATIONS

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

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

Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

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

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

PAIN0032-002 05/01/2010

BALLARD COUNTY

	Rates	Fringes
Painters: Bridges All Other Work	·	13.95 13.95
Spray, Blast, Steam, High & H Abatement) and All Epoxy - \$1		ng Lead
PAIN0118-003 05/01/2010		

EDMONSON COUNTY:

	Rates	Fringes
Painters:		
Brush & Roller Spray, Sandblast, Power	\$ 18.50	10.30
Tools, Waterblast & Steam		
Cleaning	\$ 19.50	10.30

PAIN0156-006 04/01/2010

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

	F	Rates	Fringes
Painters: BRIDGES			
		25.60	10.05
	2\$		10.05
GROUP 3	\$\$	26.60	10.05
GROUP 4	\$\$	27.60	10.05
ALL OTHE	R WORK:		
GROUP 1	\$	25.60	11.30
GROUP 2	2\$	25.85	11.30
GROUP 3	\$\$	26.60	11.30
GROUP 4	\$\$	27.60	11.30

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

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

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

PAIN0456-003 07/01/2011

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

	Rates	Fringes
Painters:		
BRIDGES		
Brush & Roller\$	22.55	9.65
Spray; Sandblast; Power		
Tools; Waterblast & Steam		
Cleaning\$	23.55	9.65
ALL OTHER WORK		
Brush & Roller\$	17.55	9.65
Spray; Sandblast; Power		
Tools; Waterblast & Steam		
Cleaning\$	18.55	9.65

ALL OTHER WORK - HIGH TIME PAY

Over 35 feet (up to 100 feet) - \$1.00 above base wage

100 feet and over - \$2.00 above base wage

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

PAIN0500-002 07/01/2011

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

	Rates	Fringes
Painters: BridgesAll Other Work		11.55 11.55

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

PLUM0184-002 07/01/2011

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

	Rates	Fringes
Plumber; Steamfitter	•	13.99
PLUM0502-004 08/01/2011		
ALLEN, BUTLER, EDMONSON, SIMPSO	N & WARREN	
	Rates	Fringes
Plumber; Steamfitter		16.13
PLUM0633-002 07/01/2011		
DAVIESS, HANCOCK, HENDERSON, HO MUHLENBERG, OHIO, TODD, UNION		
	Rates	Fringes
PLUMBER/PIPEFITTER		12.65
TEAM0089-003 03/31/2008		
	Rates	Fringes
Truck drivers: ALLEN, BUTLER, EDMONSON, LOGAN, SIMPSON & WARREN COUNTIES: Group 1	\$ 19.37 \$ 19.44 \$ 19.45	12.02 12.02 12.02 12.02 12.02
& TRIGG COUNTIES: Group 1	\$ 24.12 \$ 24.19 \$ 24.20 \$ 19.23 \$ 19.46 \$ 19.53	4.15 4.15 4.15 4.15 9.20 9.20 9.20 9.20 9.20

TRUCK DRIVER CLASSIFICATIONS FOR ALLEN, BUTLER, EDMONSON, LOGAN, SIMPSON & WARREN COUNTIES

- GROUP 1 Greaser, Tire Changer
- GROUP 2 Truck Mechanic
 - GROUP 3 Single Axle Dump; Flat Bed; all Terrain vehicles when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors; Mixer All Types
 - GROUP 4 Winch and A-Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker
 - GROUP 5 Euclid and Other Heavy Earth Moving Equipment; Low Boy; Articulator Cat; Five Axle Vehicle

TRUCK DRIVER CLASSIFICATIONS FOR BALLARD, CALLOWAY, CALDWELL, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN, TODD & TRIGG COUNTIES

- GROUP 1 Greaser; Tire Changer
- GROUP 2 Truck Mechanic
 - GROUP 3 Single Axle Dump; Flat Bed; all Terrain Vehicles when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors; Mixer All Types
 - GROUP 4 Euclid and Other Heavy Earth Moving Equipment; Low Boy; Articulator Cat; Five Axle Vehicle; Winch and A-Frame when used in transporting materials; Ross Carrier

TRUCK DRIVER CLASSIFICATIONS FOR DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO, UNION & WEBSTER COUNTIES

- GROUP 1 Greaser, Tire Changer
- GROUP 2 Truck Mechanic
 - GROUP 3 Single Axle Dump; Flat Bed; all Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors; Mixer All Types
 - GROUP 4 Euclid and Other Heavy Earth moving Equipment; Lowboy; Articulator Cat; 5 Axle Vehicle; Winch and A-Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker

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

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 (29 CFR 5.5(a)(1)(ii)).

--

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

--

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
- st 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 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

of surveys, should be with the Wage and Hour Regional Office for the area in $% \left(1\right) =\left(1\right) +\left(1\right$

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 $% \left(1,...,n\right) =\left(1,...,n\right)$

(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.

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-11-I-HWY dated August 04, 2011

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.

Ryan Griffith, Director Division of Construction Procurement Frankfort, Kentucky 40622

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

- 1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

GOALS FOR MINORITY	GOALS FOR FEMALE		
PARTICIPATION	PARTICIPATION IN		
IN EACH TRADE	EACH TRADE		
12.0%	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 Logan 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

Contract ID: 114017 Page 153 of 154

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

CONTRACT ID: 114017 COUNTY: LOGAN

PROPOSAL: HSIP 9010 (054)

PAGE: 1 LETTING: 09/23/11

CALL NO: 100

LINE NO	 ITEM 	DESCRIPTION	APPROXIMATE U	 NIT	UNIT PRICE	AMOUNT
	SECTION 0001	ROADWAY				
0010	00001 	DGA BASE	256.500	TON		
0020	 00077 	AGGREGATE FOR MAILBOX TURNOUTS	300.000	TON		
0030	00301 	CL2 ASPH SURF 0.38D PG64-22	36.000	TON		
0040	 00441 	ENTRANCE PIPE-18 IN	3,056.000 	LF		
0050	 00443 	ENTRANCE PIPE-24 IN	162.000 	LF		
0060	 00451 	ENTRANCE PIPE-18 IN EQUIV	78.000	LF		
0070	00462 	CULVERT PIPE-18 IN	190.000 	LF		
0800	 00464 	CULVERT PIPE-24 IN	30.000	LF		
0090	 00496 	CULVERT PIPE-36 IN EQUIV	32.000	LF		
0100	00498 	CULVERT PIPE-42 IN EQUIV	8.000 	LF		
0110	00499	CULVERT PIPE-48 IN EQUIV	 24.000 	LF		
0120	01310 	REMOVE PIPE	3,292.000	LF		
0130	01395 	METAL END SECTION TY 3-36 IN	8.000	EACH		
0140	01396 	METAL END SECTION TY 3-42 IN	2.000	EACH		
0150	 01397 	METAL END SECTION TY 3-48 IN	6.000 	EACH		
0160	 01651 	JUNCTION BOX-MOD BOX-PIPE JUNCTION	16.000 	EACH		
0170	 01982 	DELINEATOR FOR GUARDRAIL-WHITE	10.000	EACH		
0180	02099 	CEM CONC ENT PAVEMENT-6 IN	50.000	SQYD		
0190	02237	DITCHING	1,525.000	LF		
0200	 02259 	FENCE-TEMP	1,610.000	LF		

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

CONTRACT ID: 114017

COUNTY: LOGAN

PROPOSAL: HSIP 9010 (054)

PAGE: 2 LETTING: 09/23/11 CALL NO: 100

APPROXIMATE UNIT UNIT AMOUNT QUANTITY PRICE LINE | ITEM DESCRIPTION NO | | 1,610.000 LF | 0210 | 02268 REMOVE & REPLACE FENCE 0220 | 02351 398.750 LF GUARDRAIL-STEEL W BEAM-S FACE GUARDRAIL-STEEL W BEAM-S FACE A 107.500 LF | 0240 | 02360 GUARDRAIL TERMINAL SECTION NO 1 4.000 EACH ______ 0250 | 02399 EXTRA LENGTH GUARDRAIL POST 12.000 EACH 0260 | 02483 CHANNEL LINING CLASS II 890.000 TON | 0270 | 02562 410.000 SQFT SIGNS 0280 | 02575 DITCHING AND SHOULDERING 43,328.000 LF 0290 | 02625 REMOVE HEADWALL 40.000 EACH 0300 02650 MAINTAIN & CONTROL TRAFFIC 1.00) LS KY 178 0310 | 02690 SAFELOADING 44.000 CUYD 50,000.000 SQYD 0320 | 05950 EROSION CONTROL BLANKET 0330 | 08100 CONCRETE-CLASS A 146.550 CUYD STEEL REINFORCEMENT 15,962.000 LB 0350 | 08805 GUARDRAIL-BRIDGE CASE I 56.250 LF 0360 20257NC SITE PREPARATION 1.00) LS (1.00) LS 0370 21415ND EROSION CONTROL KY 178 ____:_________ SECTION 0002 DEMOBILIZATION 0380 | 02569 DEMOBILIZATION (AT LEAST 1.5%) | LUMP TOTAL BID