

CALL NO. 323
CONTRACT ID. 092257
FLOYD COUNTY
FED/STATE PROJECT NUMBER FD51 036 1086 002-003
DESCRIPTION WAYLAND-MINNIE ROAD (KY 1086)
WORK TYPE FLOOD REPAIR FOR FEMA
PRIMARY COMPLETION DATE 11/30/2009

LETTING DATE: July 24, 2009

Sealed Bids will be received in the Division of Construction Procurement and/or the Auditorium located on the 1st floor of the Transportation Cabinet Office Building until 10:00 AM EASTERN DAYLIGHT TIME July 24, 2009. Bids will be publicly opened and read at 10:00 AM EASTERN DAYLIGHT TIME.

(Check guaranty subr	SAL GUARANTY: Not less mitted: Cashier's Check SUBMITTED WILL BE RE cluded	Certified Check	Bid Bond	
BID ☐ SPECIMEN ☐	PROPOSAL ISSUED TO:			
SI ECHMEN	Address	City	State	Zip

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CONTRACT ID - 092257

ADMINISTRATIVE DISTRICT - 12

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - FLOYD

PCN - MP03610860902

FD51 036 1086 002-003

WAYLAND-MINNIE ROAD (KY 1086) FROM 1.019 MILES NORTH OF RIGHT FORK STEEL FORK ROAD (MP 2.565) EXTENDING NORTH TO 1.561 MILES SOUTH OF CEMETERY ROAD (MP 2.613), A DISTANCE OF 0.05 MILES. FLOOD REPAIR FOR FEMA.

GEOGRAPHIC COORDINATES LATITUDE 37^26'45" LONGITUDE 82^46'34"

AVERAGE DAILY TRAFFIC - 501 AVERAGE MAINLINE WIDTH - 18.0 FEET

COMPLETION DATE(S):

COMPLETION DATE - November 30, 2009 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 web site to prepare a bid packet for submission to the Department. The bidder must include the completed bid packet printed from the Program along with the disk created by said program.

JOINT VENTURE BIDDING

Joint Venture bidding is permissible. However, both companies MUST purchase a bidding proposal. Either proposal may be submitted but must contain the company names and signatures of both parties where required. 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.

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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.

INCIDENTAL SURFACING

The quantities established in the proposal include estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, and road and street approaches. These items are to be paved to the limits as shown on Standard Drawing RPM 110 or to the limits as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, the paving of the crossroads shall be to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. These areas are to be surfaced or resurfaced as directed by the Engineer and no direct payment will be allowed for placing and compacting.

OPTION B

The Contractor is advised that the compaction of asphalt mixtures furnished to this project will be accepted by OPTION B in accordance with Section 402 and Section 403 of the current Standard Specification.

SPECIAL NOTES SLIDE REPAIR PROJECT

I. DESCRIPTION

This 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 of: (1) Clear and grub, install temporary erosion control, temporary pollution control, seed and protect disturbed area, and final dress area, as needed; (2) Do necessary excavation and geotextile fabric; (3) Backfill with granular embankment; (4) Reconstruct pavement and shoulders; (5) Furnish and Install guardrail and guardrail end treatments; (6) Maintain and control traffic; and (7) any other work as specified by this 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. DGA.** Furnish Dense Graded Aggregate as per Section 805. Do not use Crushed Stone Base.
- **B. Final Dressing, Seed and Protection.** Use Seed Mixture No. 1.
- C. Silt Trap A, B or C. Furnish Silt traps as per Std Drawings and Section 213.
- **D. Silt Fence.** Furnish Temporary Silt Fence as per Section 213 and Section 827.
- **E. Geotextile Fabric.** Furnish Geotextile Fabric Type I as per Section 843.
- **F. Guardrail Posts**. Steel Guardrail posts are required. No alternate is allowed.
- **G. Granular Embankment.** Furnish Granular Embankment as per Section 805.

III. CONSTRUCTION METHODS

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

- **B. Staking.** Establish proper slope elevations and ratios, shoulder widths, existing ditch profile and final ditch profile to insure positive drainage. Be responsible for field layout. Positive drainage is required upon completion of the project and is the responsibility of the Contractor.
- C. Site Preparation. Prepare flood repair sites. This includes clearing and grubbing, if necessary. Remove all obstructions. Sweep and remove debris, if necessary. The area to be cleared has not been measured by the Department and the bidder must draw his own conclusions. Construct silt checks and Temporary silt fence at locations directed by the engineer. The Engineer shall approve all site preparation. The Department will not make direct payment for site preparation.
- **D.** Excavation and Backfill for Embankment Repair. Excavate the flood repair area at locations shown on the attached drawings or as directed by the Engineer. Excavate for roadway ditches as necessary for slope, shoulder and pavement drainage. Place geotextile fabric, then construct granular embankment. After constructing embankment rebuild the road using 8" of DGA base, 4" of CL2 Asphalt Base 0.75D PG64-22 and then place a 1" CL2 Asphalt Surface 0.38D PG64-22 patch over the entire break area.
- **E. Final Dressing, Seeding and Protection**. Apply Final Dressing; Class A to all disturbed areas, both on and off the right-of-way. Sow with Seed Mixture No. 1. The Department will NOT make direct payment for final dressing, or seeding and protection.
- **F.** Installation of Guardrail systems. Furnish Guardrail systems as per Section 719. See attached summary for proposed guardrail sites. Guardrail locations listed are approximate only. Locations will be field adjusted as directed by the Engineer. Construct radii at entrances and road intersections as per applicable Standard Drawings.

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 of 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 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".

G. On-Site Inspection. Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize themselves with the existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made.

- **H. Right-of-Way Limits.** Right-of-Way and easement limits shown on the plans are approximate only. The Contractor shall make every effort to limit his activities to obvious right-of-way and permanent or temporary easements and shall be responsible for encroachments onto private lands.
- **I. Property Damage.** The Contractor will be responsible for all damage to public and/or private property resulting from his work.
- J. **Utility Clearance** NOTICE: Utility locations are not shown on plans or 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. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Notify the Engineer and the utility owner(s) immediately when it is discovered or anticipated that any utility conflict could delay the **Contractor's operations.** Do not disturb existing overhead or underground utilities. Be responsible for repairing all utility damage that occurs as a result of the work. 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. Working days will not be charged for those days on which work on the controlling item is delayed, as provided in the Specifications. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified. Comply with applicable sections of Chapter 107.

IV. METHOD OF MEASUREMENT

- **A. Maintain and Control Traffic.** See Traffic Control Plan.
- **B.** Site Preparation, Clearing and Grubbing, Seeding and Protection, Fertilizer, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal. The Department will NOT MEASURE for payment these items. They include Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal, and other items not expressly bid as individual items. These items shall be incidental to the bid item "Excavation and Backfill" as applicable to each project.

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V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- B. Site Preparation, Clearing and Grubbing, Seeding and Protection, Fertilizer, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal. The Department will NOT make direct payment for operations for which bid items do not exist. They include items listed here: Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste removal and Disposal. These activities shall be incidental to the bid item "Excavation and Backfill" as applicable to each project.

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

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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

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TRAFFIC CONTROL PLAN SLIDE REPAIR PROJECT

TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the 2004 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 this time, no restrictions are anticipated. At the discretion of the Engineer, additional days and hours may be added when lane closures will not be allowed.

Road may be closed to through traffic during construction; local traffic shall be maintained (See Standard drawing TTC-105). 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.

If the work site conditions require that all traffic be stopped while the drilling operation is in progress, traffic may be stopped for the length of time required to drill and set one rail or a maximum of 15 minutes unless an emergency vehicle or a school bus is present in the traffic stream or comes upon the work site. All waiting traffic shall be allowed to pass before starting the next hole. If an emergency vehicle or school bus is present in the queue, stop drilling and allow traffic to pass immediately.

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 slide areas and/or pipe removal and replacement areas will be bid as each according to Section 112.04.04.

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TRAFFIC CONTROL PLAN SLIDE REPAIR PROJECT Page 2

PAVEMENT EDGE DROP-OFFS

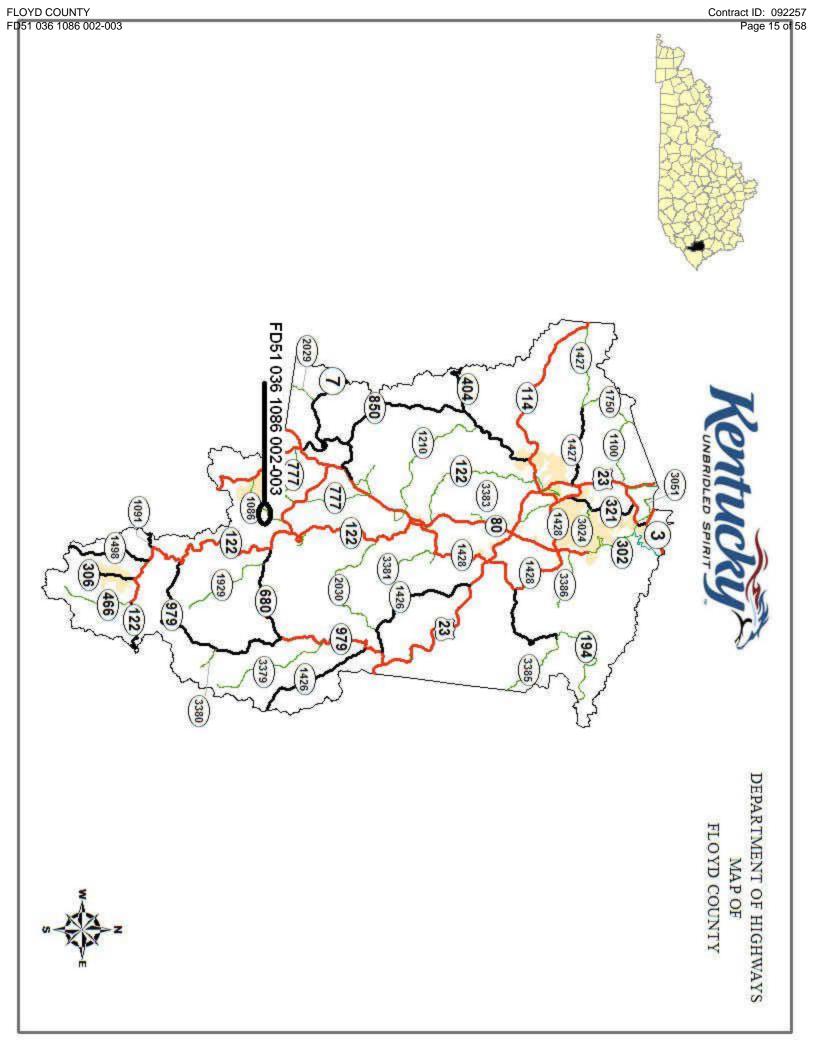
A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½". Warning signs (MUTCD W8-11 or W8-9A) shall be placed in advance of and at 1500 feet intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required.

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

Less than or equal to 2" - No protection required. Warning signs should be placed in advance and throughout the drop-off area.

Greater than 2" - Place plastic drums, vertical panels, or barricades every 50 feet. Wedge with asphalt mixture for pavement wedge 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.

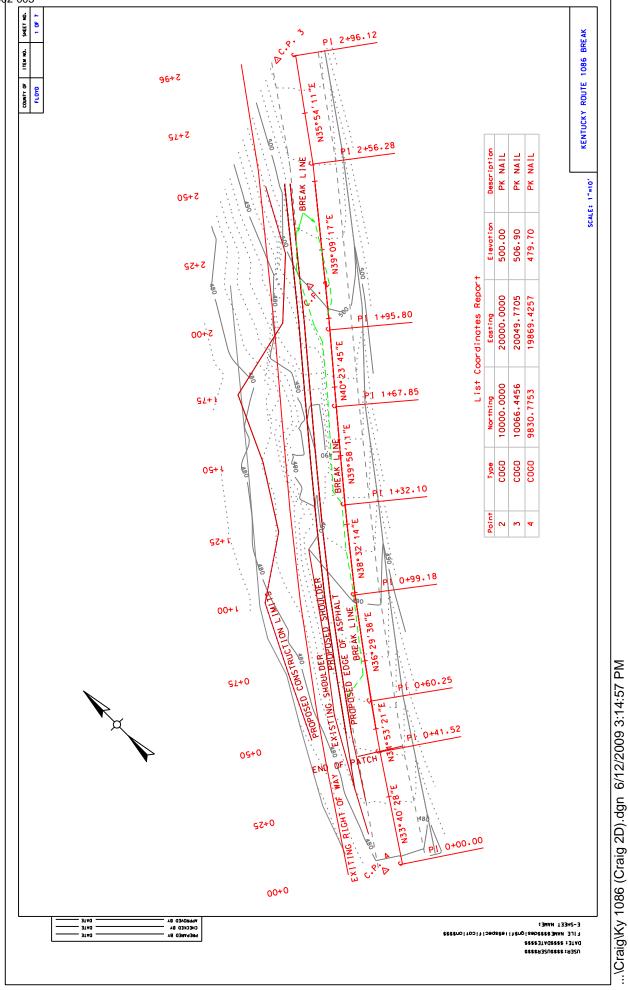
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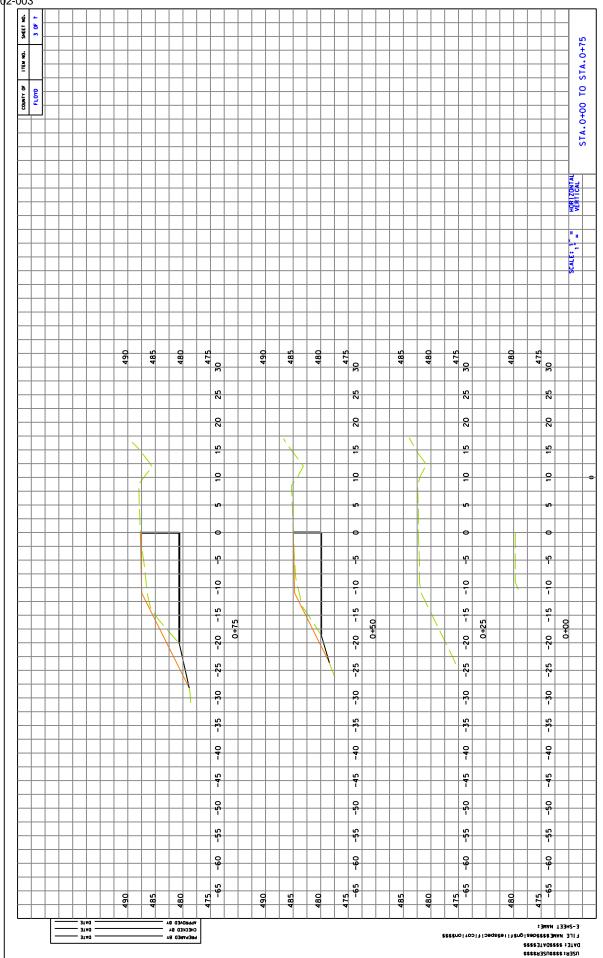
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PART II

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.*

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

(Effective with the July 24, 2009 Letting)

GT ID GT GT G T	100.00
SUBSECTION:	101.02 Abbreviations.
REVISION:	Insert the following abbreviation and text into the section:
	VEDSC Ventualsy Erosion Provention and Sediment Control
SUBSECTION:	KEPSC Kentucky Erosion Prevention and Sediment Control
REVISION:	101.03 Definitions.
REVISION:	Replace the definition for Specifications – <i>Special Provisions</i> with the following:
	Additions and ravisions to the Standard and Supplemental Specifications according conditions recyclism to
	Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to and individual project.
	and individual project.
SUBSECTION:	102.07.01 General.
REVISION:	Replace the first sentence with the following:
REVISION.	Replace the first sentence with the following.
	Submit the Bid Proposal on forms furnished on the Department internet website
	(http://transportation.ky.gov/contract/), including the Bid Packet and disk created from the Expedite
	Bidding Program.
	2 Togram
SUBSECTION:	102.07.02 Computer Bidding.
REVISION:	Replace the first paragraph with the following:
	Subsequent to ordering a Bid Proposal 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 Department's website to prepare
	a Bid Proposal for submission to the Department. Include the completed Bid Packet produced by the
	Expedite Bidding Program and submit it along with the disk created by said program.
	Replace the second paragraph with the following:
	In case of a dispute, the printed Bid Proposal and bid item sheets created by the Expedite Bidding
	Program take precedence over any bid submittal.
CLIDGE CETON	102 00 IDDECITI AD DID DDODOGAL C
SUBSECTION:	102.08 IRREGULAR BID PROPOSALS.
REVISION:	Replace point four of the first paragraph with the following:
	4) fails to submit a disk created from the Expedite Bidding Program.
	4) Tails to subliff a disk created from the Expedite Bidding Program.
	Replace point one of the second paragraph with the following:
	replace point one of the second paragraph with the following.
	1) when the Bid Proposal is on a form other than that furnished by the Department or printed from
	other than the Expedite Bidding Program, or when the form is altered or any part is detached;
	or
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.

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

(Effective with the July 24, 2009 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.

Delete the fifth paragraph from the section.

SUBSECTION:

105.13 CLAIM RESOLUTION PROCESS.

REVISION:

Delete the last paragraph from the section.

SUBSECTION:

106.10 FIELD WELDER CERTIFICATION REQUIREMENTS.

REVISION:

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:

PART:

112.03.11 Temporary Pavement Markings.

REVISION:

B) Placement and Removal of Temporary Striping.

Replace the 2nd sentence of the fist 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.

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

(Effective with the July 24, 2009 Letting)

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:	213.03.03 Inspection and Maintenance.
REVISION:	Insert the following paragraph after the second paragraph:
CHROLOTION	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 5 days.
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:	303.05 PAYMENT.
REVISION:	Replace the second paragraph of the section with the following:
	The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402.
SUBSECTION:	401.02.04 Special Requirements for Dryer Drum Plants.
PART:	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:
REVISION:	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 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 interpreted or deviates from the prescribed water rate
	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.

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

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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 Recyc (RAP)	led 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.

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SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.						
PART:	C) Conventional and RAP Mixtures Placed on Shoulders.						
REVISION:	Replace title with the following:						
	HMA, WMA, and RAP Mixtures Placed on Shoulders.						
SUBSECTION:	402.05.02 Asphalt Mixtures, HMA	and WMA, Inc	luding Mixtures Wi	th RAP.			
PART:	D) Conventional and RAP Mixture	s Placed Monoli	thically as Asphalt	Pavement Wedge.			
REVISION:	Replace the title with the following	; :		- 1			
	HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.						
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	- 			
			0.1-0.5 below min.	-			
		0.90	0.6-1.0 below min.	-			
		(1)	> 1.0 below min.	1			
SUBSECTION: PART: TABLES: REVISION:	402.05.02 Asphalt Mixtures, HMA Lot Pay Adjustment Schedule, Con VMA Replace the VMA table with the fo	npaction Option					
	Ī	V	MA				
		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.						
	<u> </u>	(2)	> 1.0 below min.				

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

PART: Lot Pay Adjustment Schedule, Compaction Option B Mixtures

TABLE: VMA

REVISION: 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.					
(2)	> 1.0 below min.					

SUBSECTION: 403.03.03 Preparation of Mixture.

PART: C) Mix Design Criteria.

NUMBER: 1) Preliminary Mix Design.

REVISION: 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:

Number of Gyr				
Class	ESAL's (millions)	$N_{ m initial}$	$N_{ m design}$	$N_{ m max}$
2	< 3.0	6	50	75
3	3.0 to < 30.0	7	75	115
4	≥ 30.0	8	100	160

SUBSECTION: 403.03.09 Leveling and Wedging, and Scratch Course.

PART: A) Leveling and Wedging.

REVISION: 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: B) Scratch Course.

REVISION: 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 DESCRIPTION.

REVISION: Replace the first sentence of the paragraph with the following:

Construct a pavement wedge composed of a hot-mixed or warm-mixed asphalt mixture.

SUBSECTION: 409.01 DESCRIPTION.

REVISION: Replace the first sentence of the paragraph with the following:

Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot mix

asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied.

SUBSECTION: 410.01 DESCRIPTION.

REVISION: Delete the second sentence of the paragraph.

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SUBSECTION:	410.03.01 Corrective Work.	1 1/1	1 6 11 '					
REVISION:	Replace the last sentence of th	e paragraph with t	ne rollowing:					
	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:	B) Requirements.							
NUMBER: REVISION:	1) Category A. Replace the last sentence of th	e first paragraph y	vith the following:					
REVISION.			-					
	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 s	entence of the firs	t paragraph with the followin	g:				
	When the IRI is greater than 9 the pavement to achieve the sp							
	0.1-lane-mile section may be a			pay deduction of \$700 per				
SUBSECTION:	410.05 PAYMENT.							
REVISION:	Add the following sentence to	the end of the firs	t paragraph:					
	The same of the may value adia	otuvanto fon si da os	vality shall not award \$0 for	the music et es e vulcele				
	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			4				
REVISION:	Insert the following sentence b	between the first a	nd second sentence of the firs	a paragrapii.				
	The Department will calculate			ntives and disincentives				
	but will not allow the overall p	bay value for a lot	to exceed 1.00.					
SUBSECTION:	413.05.02 CL3 SMA BASE 1	.00D PG 76-22.						
TABLE: REVISION:	JOINT DENSITY TABLE Replace the joint density table	with the followin	a.					
REVISION.	Replace the joint density table	with the followin	g.					
		LAN	E 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					
		(-/	< 91.0 or > 97.5					
SUBSECTION: REVISION:	413.05.03 CL3 SMA SURF 0.							
REVISION:	Insert the following sentence b	between the first a	na secona sentence of the firs	ı paragrapıı.				
	The Department will calculate			ntives and disincentives				
	but will not allow the overall p	oay value for a lot	to exceed 1.00.					
	l							

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SUBSECTION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22.								
TABLE:	JOINT DENSITY TABLE								
REVISION:	Replace the joint density table with the following:								
			DENSITY	=					
		Day Value	_	Ioint Donaity					
		Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)					
		1.05	95.0-96.5	92.0-96.0					
		1.00	93.0-94.9	90.0-91.9					
		0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5					
		0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0					
			91.0-91.9 01 97.1-97.3						
		0.75	.01.007.5	< 88.0 or > 97.0					
		(-)	< 91.0 or > 97.5						
SUBSECTION:	501.05.02 Ride Qu	ality.							
REVISION:			d of the first paragraph:						
	The sum of the pay	value adjustment	ts for the ride quality shall	not exceed \$0 for the p	roject as a whole.				
SUBSECTION:	505 02 04 Data (Alla Warring)								
REVISION:	505.03.04 Detectable Warnings. Replace the first sentence with the following:								
112 (1510)((replace the first se	monee with the re	mo wing.						
	Install detectable warning pavers at all sidewalk ramps and on all commercial entrances according to the								
	Standard Drawings.								
SUBSECTION:	505.04.04 Detectal								
REVISION:	Replace the paragr	aph with the follo	wing:						
	The Department w	ill measure the au	antity in square feet. All i	etrofit applications for a	maintenance				
			existing sidewalks to meet						
			ssociated with the removal						
			bid item or incidental to t	he bid item for the cons	truction of the				
CUDCECTION.	concrete sidewalk		oted.						
SUBSECTION: REVISION:	Add the following		ole:						
KE VISION.	rida the following	to the old item tat	nc.						
	Code	Pay Item	Pay Unit						
	23158ES505	Detectable Warr	nings Square Foot						
SUBSECTION:	509.01 DESCRIPT		h - 6-11						
REVISION:	Replace the second	i paragraph with the	ne rollowing:						
	The Department m	av allow the use o	of similar units that confor	m to the National Coope	erative Highway				
			st Level 3 (TL-3) requirer						
			Engineers approval prior to						
			ns and locations typical features						
			ICHRP 350 TL-3 for Test	3 – 11 (pickup truck im	pacting at 60 mph				
SUBSECTION:	at a 25-degree angle 601.03.02 Concrete		neihilitiae						
REVISION:	Add the following	*							
12010111	Tida die following	and mor paragra	~P~~·						
			ied during a project and th						
			qualified personnel to with						
		ons. The Departr	nent will assess the Contra	actor a \$100 per hour ch	arge for this				
	service.								

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SUBSECTION:	606.02.11 Coarse Aggregate.
REVISION:	Replace with the following:
	Conform to Section 805, size No. 8 or 9-M.
SUBSECTION:	609.04.06 Joint Sealing.
REVISION:	Replace Subsection 601.04 with the following:
	Subsection 606 04 00
SUBSECTION:	Subsection 606.04.08. 609.05 Payment.
REVISION:	Replace the Pay Unit for Joint Sealing with the following:
KE VISIOIV.	replace the Fuy Clift for John Bearing 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.

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SUBSECTION: REVISION:	701.04.07 Testing. Replace and rename the subsection with the following:							
REVISION:	Replace and fename 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: Code Pay Item Pipeline Video Inspection Pay Unit Linear Foot							
SUBSECTION:	701.05 PAYMENT							
TABLE: REVISION:	PIPE DEFLECTION DETERMINE Replace this table with the following		STING					
REVISION:	Replace this table with the following	ig table and note:						
		PIPE DEFLEC	CTION					
	Amount of Deflection (9	%)	Payment					
	0.0 to 5.0		100% of the	Unit Bid Price				
	5.1 to 9.9		50% of the l	Unit Bid Price (1)				
	10 or greater		Remove and	l Replace				
SUBSECTION: TABLE: REVISION: SUBSECTION:	 Provide Structural Analysis as indicated above. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price. 701.05 PAYMENT PIPE DEFLECTION DETERMINED BY MANDREL TESTING Delete this table. 							
REVISION:	713.02.01 Paint. Replace with the following:							
	Conform to Cootie = 040 = = 10	946						
SUBSECTION:	Conform to Section 842 and Section 713.03 CONSTRUCTION.	on 040.						
REVISION:	Replace the first sentence of the se	cond paragraph with the	he following:					
	On interstates and parkways, and other routes approved by the State Highway Engineer, install pavement striping that is 6 inches in width.							
SUBSECTION: REVISION:	713.03.03 Paint Application. Replace the second paragraph with	the following table:						
KE VISION:	Replace the second paragraph with	the following table.						
	Material	Paint Application I		Glass Beads Application				
	4 inch waterborne paint	Min. of 16.5 gallons		Min. of 6 pounds/gallon				
	6 inch waterborne paint 6 inch durable waterborne paint	Min. of 24.8 gallons Min. of 36 gallons/n		Min. of 6 pounds/gallon Min. of 6 pounds/gallon				
	o men durable waterborne paint	wiii. or so ganons/n	1110	with of a pounds/gallon				

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SUBSECTION:	713.03.04 Marking Removal.
REVISION:	Replace the last sentence of the paragraph wit the following:
REVISION.	Replace the last sentence of the paragraph wit the following.
	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 Pavement Striping – Permanent Paint:
	<u>Code</u> <u>Pay Item</u> <u>Pay Unit</u>
	23159EN Durable Waterborne Marking – 6 IN W Linear Foot
	23160EN Durable Waterborne Marking – 6 IN Y Linear Foot
SUBSECTION:	714.03 CONSTRUCTION.
REVISION:	Insert the following paragraph at the end of the third paragraph:
	Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic
	should only be used for markings on asphalt pavement
SUBSECTION:	714.03.07 Marking Removal.
REVISION:	Replace the third sentence of the paragraph with the following:
	Vacuum all marking material and removal debris concurrently with the marking removal operation.
CLIDGECTION	71.COL DESCRIPTION
SUBSECTION: REVISION:	716.01 DESCRIPTION. Insert the following after the first sentence:
KEVISION.	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 third sentence of the paragraph with the following:
	Submit for material approval an electronic file of descriptive literature, drawings, and any requested
	design data.
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:
KE VISIOIV.	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.
GLIDGE CETAT	717 00 MATERIAL CAND FOLUDATIVE
SUBSECTION: REVISION:	717.02 MATERIALS AND EQUIPMENT.
REVISION:	Insert the following subsection:
	717.02.06 Type I Tape. Conform to Section 836.
	71
SUBSECTION:	717.03.03 Application.
REVISION:	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.
	I .

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SUBSECTION:	717.03.05 Proving Period.				
PART:	A) Requirements.				
REVISION:	Insert the following to this section	on:			
SUBSECTION: REVISION:	2) Type I Tape. During the provof failure due to blistering, exces pavement materials, drippings, c retroreflectivity, vehicular damag warranted by the manufacturer to adequately bonded to the surface Subsection 714.03.06 A) 1), retro	ving period, ensure that the pavement marking material series cracking, bleeding, staining, discoloration, oil continuously spalling, poor adhesion to the pavement, loss ge, and normal wear. Type I Tape is manufactured or meet certain retroreflective requirements. As long are and shows no signs of failure due to the other items coreflectivity readings will not be required. In the absolute days of the continuously spalling that the pavement of	ontent of the s of ff site and as the material is listed in		
	Vacuum all marking material and removal debris concurrently with the marking removal operation.				
GTIP GT GTT GAL		d removal debris concurrently with the marking remo	oval operation.		
SUBSECTION:	717.05 PAYMENT.				
REVISION:	Insert the following bid item cod	les:			
	Code 06563 20782NS714 23251ES717, 23264ES717 23252ES717, 23265ES717 23253ES717 23254ES717 23255ES717 23268ES717-23270ES717 23256ES717 23257ES717 23266ES717 23267ES717	Pay Unit Pave Marking – R/R X Bucks 16 IN Pave Marking Thermo – Bike Pave Mark TY I Tape X-Walk, Size Pave Mark TY I Tape Stop Bar, Size Pave Mark TY I Tape Cross Hatch Pave Mark TY I Tape Dotted Lane Extension Pave Mark TY I Tape Arrow, Type Pave Mark TY I Tape- ONLY Pave Mark TY I Tape- SCHOOL Pave Mark TY 1 Tape R/R X Bucks-16 IN Pave Mark TY 1 Tape-Bike	Pay Item Linear Foot Each Linear Foot Square Foot Linear Foot Each Each Linear Foot Each Each Linear Foot		
SUBSECTION: REVISION:					
SUBSECTION: REVISION:	805.04 CONCRETE.	reference in first sentence of the third paragraph with	"KM 64-629"		
SUBSECTION: TABLE: PART: REVISION:	AGGREGATE SIZE USE Cement Concrete Structures and	TANCE OF NON-SPECIFICATION COARSE AGG Incidental Construction g Overlays" with "8 or 9-M for Waterproofing Overla			

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

					S	IZES (SIZES OF COARSE AGGREGATES	SE AC	GREG	ATES							
	Sieve		Al	MOUNTS	S FINER TH.	AN EACI	AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT	ORY SIE	EVE (SQUA	RE OPEN	TNGS) PEF	RCENTAGI	E BY WER	GHT			
Aggregate Size	Nominal (3) Maximum Aggregate Size	4 inch	3 1/2 inch	3 inch	2 1/2 inch	2 inch	1 1/2 inch	1 inch	3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 ½ inch	100	90-100		25-60		0-15		9-0								
2	2 1/2 inch			100	90-100	35-70	0-15		9-0								
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	001-56		35-70		10-30		0-5					
4	1 1/2 inch					100	90-100	20-55	0-15		5-0						
467	1 1/2 inch					100	95-100		35-70		10-30	0-5					
5	1 inch						100	90-100	20-55	0-10	5-0						
57	1 inch						100	95-100		25-60		0-10	0-5				
610	1 inch						100	85-100		40-75		15-40					
29	3/4 inch							100	90-100		20-55	0-10	0-5				
89	3/4 inch							100	90-100		30-65	5-25	0-10	5-0			
710	3/4 inch							100	80-100		30-75	0-30					
78	1/2 inch								100	90-100	40-75	5-25	0-10	5-0			
8	3/8 inch									100	85-100	10-30	0-10	9-0			
9-M	3/8 inch									100	75-100	0-25	0-5				
$10^{(2)}$	No. 4										100	85-100				10-30	
11(2)	No. 4										100	40-90	10-40			0-5	
DENSE GRADED AGGREGATE (1)	3/4 inch							100	70-100		08-05	30-65			10-40		4-13
CRUSHED STONE BASE (1)	1 ½ inch				100		90-100		96-09		02-08	15-55	_		5-20		8-0

Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.

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.

⁽²⁾ 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.

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SUBSECTION:	805.16 SAMPLING AND TESTING.				
REVISION:		M 64-629" method for the Concrete Beam Expansion			
REVISION.	Test.	vi 01 025 mediod for the concrete Beam Expansion			
	1000				
	Replace the "ASTM D 3042" method with the "KM	64-625" method for Insoluble Residue.			
SUBSECTION:	810.04.01 Coating Requirements.				
REVISION:	Replace the "Subsection 806.07" references with "Su	ubsection 806.06"			
SUBSECTION:	810.06.01 Polyvinyl Chloride (PVC) Pipe.				
PART:	B) Culvert and Entrance Pipe.				
REVISION:	Replace the title with the following:				
	B) Culvert Pipe, Storm Sewer, and Entrance Pipe.				
GLIDGE GETON	027 02 A PPP O LA L				
SUBSECTION:	837.03 APPROVAL.				
REVISION:	Replace the last sentence with the following:				
	The Department will sample and evaluate for approv	val each lot of thermonlastic material delivered for			
	use per contract prior to installation of the thermopla				
	thermoplastic material until it has been approved by				
	minimum of 10 working days to evaluate and approx				
SUBSECTION:	837.03.01 Composition.				
REVISION:	COMPOSITION Table:				
	Replace				
	Lead Chromate	0.0 max. 4.0 min.			
	with Heavy Metals Content	Comply with 40 CFR 261			
CECTION.	DIVISION 800 MATERIAL DETAILS	Comply with 40 CFR 201			
SECTION: REVISION:	Add the following section in Division 800				
KEVISION.	Add the following section in Division 800				
	SECTION 846 – DURABLE WATERBO	ORNE PAINT			
	SECTION OR SCHEDE WITHERE				
	846.01 DESCRIPTION. This section covers quick	k-drying durable waterborne pavement striping paint			
	for permanent applications. The paint shall be read	ly-mixed, one-component, 100% acrylic waterborne			
		offic-bearing surfaces as Portland cement concrete,			
	bituminous cement concrete, asphalt, tar, and previous	usly painted areas of these surfaces.			
	846.02 Approval. Select materials that conform to t	the composition requirements below. Provide			
	independent analysis data and certification for each f				
	heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for				
	leachable heavy metals content. Submit initial samples for approval before beginning striping				
	operations. The initial sample may be sent from the manufacture of the paint. The Department will				
	randomly sample and evaluate the paint each week the				
		ll be composed of a 100% acrylic polymer as			
	determined by infrared spectral analysis. The acrylic				
	evidenced by infrared peaks at wavelengths 1568, 16				
	produced by an acrylic resin known to be 100% cros	SS-linking.			
	l l				

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

(Effective with the July 24, 2009 Letting)

	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 allowable variation	Maximum allowable variation
a 2° observer	2.0ΔE*	2.0∆E*
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
	2.0ΔE*	2.0∆E*
Heavy Metals Content	Comply with 40 CFR 261	Comply with 40 CFR 261
Titanium Dioxide	NA	10% by weight of pigment
ASTM D 4764		min.
VOC	1.25 lb/gal max.	1.25 lb/gal max.
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 V	VATERBOR	NE PAVEMI	ENT STRIPIN	G PAINT R	EDUCTION	SCHEDULE
Non- conforming Property	Resin	Color	Contrast	TiO ₂	VOC	Heavy Metals Content
Reduction Rate	60%	10%	10%	10%	60%	60%

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STANDARD DRAWINGS THAT APPLY

DOADWAY

ROADWAY	
~ BARRIERS ~	
GUARDRAIL AND BRIDGE END DRAINAGE	
GUARDRAIL AND BRIDGE END DRAINAGE FOR SINGLE STRUCTURES	RBB-001-07
GUARDRAIL AND BRIDGE END DRAINAGE FOR TWIN STRUCTURES	
LAYOUT OF GUARDRAIL AT TWIN STRUCTURES-DEPRESSED MEDIAN	
GUARDRAIL TRANSITION FROM NORMAL SHOULDER TO NARROW BRIDGE	
GUARDRAIL CONNECTORS TO BRIDGE ENDS	
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A-1	
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A-1 COMPONENTS	RBC-002-01
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A-1 COMPONENTS	RBC-003-07
GUARDRAIL CONNECTOR TO BRIDGE END TYPE D	
GUARDRAIL CONNECTOR TO CONCRETE MEDIAN BARRIER END	
CONNECTION DETAILS OF CRASH CUSHION TYPE VI TO DOUBLE FACE GUARDRAIL	RBC-110-09
ENERGY ARCORDION DEVICES	
ENERGY ABSORPTION DEVICES	DDE 040 00
CRASH CUSHION TYPE VII (ONE & TWO DIRECTION)CRASH CUSHION TYPE VI (ONE & TWO DIRECTION)	RBE-040-09
CONCRETE MEDIAN BARRIER ENDCONCRETE MEDIAN BARRIER END FOR CRASH CUSHION TYPE IX	RBE-065 06
CRASH CUSHION TYPE VI-T	
CRASH CUSHION TYPE IX	
CRASH CUSHION TYPE IX-A	
CKASH CUSHION THE IX-A	KDL-203-04
TYPICAL BARRIER INSTALLATIONS	
TYPICAL GUARDRAIL INSTALLATIONS	RBI-001-09
TYPICAL GUARDRAIL INSTALLATIONS	RBI-002-06
TYPICAL INSTALLATION FOR GUARDRAIL END TREATMENT TYPE 2A	RBI-003-07
INSTALLATION OF GUARDRAIL END TREATMENT TYPE 1	RBI-004-03
GUARDRAIL INSTALLATION AT BRIDGE COLUMNS	RBI-005-07
GUARDRAIL INSTALLATION AT SIGN SUPPORTS	
CRASH CUSHION TYPE IX INSTALLATION AT MEDIAN PIERS (DEPRESSED MEDIAN)	RBI-007-08
CRASH CUSHION INSTALLATION AT MEDIAN PIERS (RAISED OR FLUSH MEDIAN)	RBI-009-03
CONCRETE MEDIAN BARRIERS	
CONCRETE MEDIAN BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT)	RRM_001_09
CONCRETE MEDIAN BARRIER PRECAST (PERMANENT)	RBM-003-10
CONCRETE MEDIAN BARRIER PRECAST (PERMANENT)	
CONCRETE MEDIAN BARRIER SYMMETRICAL & ASYMMETRICAL SEPARATE	
AND TRANSITION DETAILS	RBM-015-05
DELINEATORS FOR CONCRETE BARRIERS	
CARSONITE MODULAR GLARE SCREEN (FOR CONCRETE MEDIAN BARRIERS)	
SYRO STEEL MODULAR GLARE SCREEN (FOR CONCRETE MEDIAN BARRIERS)	
CONCRETE MEDIAN BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT) (50" TALL WALL)	RBM-050
CONCRETE MEDIAN BARRIER PRECAST (PERMANENT) (50" TALL WALL)	RBM-053
CONCRETE MEDIAN BARRIER SYMMETRICAL & ASYMMETRICAL SEPARATE	
AND TRANSITION DETAILS (50" TALL WALL)	RBM-060
CONCRETE BARRIER WALL TYPE 9T (TEMPORARY)	
CURB TO BARRIER WALL TRANSITION	RBM-130-03
GUARDRAIL HARDWARE	
STEEL BEAM GUARDRAIL (W-BEAM)	RBR_001_11
GUARDRAIL COMPONENTS	
GUARDRAIL TERMINAL SECTIONS	
CHADDAIL DOCTC	

GUARDRAIL POSTSRBR-015-04 GUARDRAIL POSTSRBR-016-04

GUARDRAIL END TREATMENT TYPE 1	RBR-020-03
GUARDRAIL END TREATMENT TYPE 2A	RBR-025-03
GUARDRAIL END TREATMENT TYPE 3	RBR-030-04
GUARDRAIL END TREATMENT TYPE 3 PIPE DRAINAGE DETAIL	
GUARDRAIL END TREATMENT TYPE 4A	
GUARDRAIL END TREATMENT TYPE 7	RBR-050-05
STEEL BEAM GUARDRAIL (THRIE BEAM)	RBR-100-05
~ DRAINAGE ~	
BOX INLETS AND OUTLETS	
<u>DROP BOXES</u>	
DROP BOX INLET TYPE 1	
DROP BOX INLET TYPE 2	
DROP BOX INLET TYPE 3	
DROP BOX INLET TYPE 4	
DROP BOX INLET TYPE 5A-5B-5C-5D-5E AND 5F	
DROP BOX INLET TYPE 6A-6B-6C-6D-6E AND 6F	
DROP BOX INLET TYPE 7 (LAYOUT & STEEL PATTERN)	
DROP BOX INLET TYPE 7 (DIMENSION & STEEL CHART)	
DROP BOX INLET TYPE 10	
DROP BOX INLET TYPE 11	
DROP BOX INLET TYPE 12 OR 12A	
DROP BOX INLET TYPE 13 (DETAIL SHEET)	
DROP BOX INLET TYPE 13 AND TYPE 16 (FRAME & GRATE DETAILS)	
DROP BOX INLET TYPE 13 (DETAIL & BAR CHART FOR LID)	
DROP BOX INLET TYPE 13 (PIPE CHAMBER - GRADE CONDITION)	
DROP BOX INLET TYPE 13 (PIPE CHAMBER - SAG CONDITION)	
DROP BOX INLET TYPE 13 (ADDITIONAL STEEL - RISER)	
DROP BOX INLET TYPE 14 % 15	
DROP BOX INLET TYPE 14 & 15	
DROP BOX INLET TYPE 16 (DETAIL SHEET)	
DROP BOX INLET TYPE 16 (STEEL SHEET)	
DROP BOX INLET TYPE 16 (DETAIL & BAR CHART FOR LID)	
DROP BOX INLET TYPE 16 (DIMENSIONS & ESTIMATE OF QUANTITIES)	
DROP BOX INLET TYPE 16 (ADDITIONAL STEEL - RISER)	
DROF BOX INLET TIFE 10 (ADDITIONAL STEEL - CHAMBER)	RDB-033-03
SLOPED BOXES	
SLOPED BOX OUTLET TYPE 1	RDB-100-04
GRATES FOR SLOPED BOX OUTLET TYPE 1	
SLOPED AND FLARED BOX INLET-OUTLET 18"-24"-30"-36" ALL SKEWS	
GRATES FOR SLOPED AND FLARED BOX INLET-OUTLET	
SLOPED BOX INLET OR OUTLET TYPE 1	RDB-110-07
SLOPED BOX INLET OR OUTLET TYPE 2	
METAL END SECTION TYPE 1 & 2 (PARALLEL STRUCTURES)	RDB-150-01
METAL END SECTION TYPE 3 & 4 (CROSS STRUCTURES)	
DIMENSIONS FOR METAL END SECTIONS	
<u>CURB BOXES</u>	
CONCRETE MEDIAN BARRIER BOX INLET	
CONCRETE MEDIAN BARRIER BOX INLET	
CONCRETE MEDIAN BARRIER BOX INLET (50" TALL WALL)	
CONCRETE MEDIAN BARRIER BOX INLET (50" TALL WALL)	
CURB BOX INLET TYPE A (DETAIL DRAWING)	
CURB BOX INLET TYPE A (STEEL DRAWING)	
CURB BOX INLET TYPE A (TOP PHASE TABLES)	
CURB BOX INLET TYPE A (DETAIL & BAR CHART FOR 8" LID)	
CURB BOX INLET TYPE B (DETAIL DRAWING)	
CURB BOX INLET TYPE B (STEEL DRAWING)	
CURB BOX INLET TYPE B (TOP PHASE TABLES)	RDB-282-03

CURB BOX INLET TYPE B (DETAIL & BAR CHART FOR 8" LID)	
STANDARD CURB BOX INLET TYPE F	
BOX INLET RISER	
BOX INLET PIPE CHAMBER	
BOX INLET PIPE CHAMBER (ADDITIONAL STEEL)	
MANHOLE STEPS	RDB-430-04
PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS	
PAVED DITCH TYPE 1	
PAVED DITCH TYPE 2	RDD-002-06
FLUME INLET TYPE 1	RDD-020-06
FLUME INLET TYPE 2	
CHANNEL LINING CLASS IA (MATTRESS UNITS)	RDD-030-07
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	
TOKINGED THE THIND DOTT COLVERT THEIR WILLES (ROTT SERVED) SEE THEIR WILLES COTT EDINERY	
TYDICAL DD AINIACE INCTALL ATIONS	
TYPICAL DRAINAGE INSTALLATIONS CHAVER ENTRANCE & GTORM GENER PRESENTATIONS	DDI 001 00
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS	
CULVERT & 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 REINFORCED CONC. PIPE	
PIPE BEDDING, TRENCH CONDITION	
PIPE BEDDING, TRENCH CONDITION REINFORCED CONC. PIPE	
COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE	
TYPICAL MEDIAN DRAIN INSTALLATIONS	RDI-045-01
FILL HEIGHTS FOR PRECAST REINFORCED CONCRETE BOX CULVERTS	RDI-100-04
BEDDING FOR PRECAST BOX CULVERTS, SEWERS, STORM DRAINS AND THEIR COMBINATIONS	RDI-120-03
SLOTTED DRAIN PIPE (DETAIL SHEET)	RDI-200-04
<u>MANHOLES</u>	
MANHOLE TYPE A	RDM-001-06
MANHOLE TYPE B	
MANHOLE TYPE C (CHAMBER LAYOUT)	RDM-010-05
MANHOLE TYPE C (TOWER APPLICATION)	RDM-011-04
MANHOLE TYPE C (STEEL PATTERN)	RDM-012-02
MANHOLE TYPE C (TABLE OF QUANTITIES)	RDM-013-03
TRAPPED MANHOLE	RDM-050-06
FRAME AND LID TYPE 1	RDM-100-02
FRAME AND LID TYPE 2	RDM-105-02
PERFORATED PIPE	
PERFORATED PIPE TYPES AND COVER HEIGHTS	RDP-001-05
PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2)	
AND MULTI-LANE ROADS	RDP-005-04
PERFORATED PIPE UNDERDRAINS (LONGITUDINAL AND TRANSVERSE)	
PERFORATED PIPE DETAILS (SOLID ROCK)	
PERFORATED PIPE HEADWALLS	

MISCELLANEOUS DRAINAGE

JUNCTION BOX	
JUNCTION BOX (DIMENSIONS AND QUANTITIES)	RDX-002-03
JUNCTION BOX TYPE B	RDX-005-02
SPRING BOX INLET TYPE A	RDX-010-04
SPRING BOX INLET TYPE B	RDX-011-04
TRAP FOR BOX INLETS	
SUBGRADE DRAINAGE - CONCRETE PAVEMENT	
INTERMEDIATE AND END ANCHORS FOR CIRCULAR PIPE	
INTERMEDIATE AND END ANCHORS FOR NON-CIRCULAR PIPE	
SIDE TAPERED INLETS – 30" TO 60" DIA. ALL SLOPES - ALL SKEWS	
SECURITY DEVICES FOR FRAMES, GRATES AND LIDS	
SILT TRAP - TYPE A	
SILT TRAP - TYPE B	
SILT TRAP - TYPE C	
CHANNEL HABITAT IMPROVEMENT STRUCTURES (DUMPED STONE)	
CHANNEL HABITAT IMPROVEMENT STRUCTURES (GABIONS)	
PRECAST BOX CULVERT EXTENSION	RDX-300-03
~ FENCES AND GATES ~	
<u>CHAIN LINK FENCE</u>	
CHAIN LINK FENCE 4' TO 6' HIGH	
CHAIN LINK FENCE 8' TO 12' HIGH	RFC-002-04
Q	
<u>GATES</u>	
WOVEN WIRE GATES	
4' TO 12' HIGH CHAIN LINK GATE	
WATER GATE TYPE 1 AND TYPE 2	
WATER GATE TYPE 3	RFG-011-05
WOVEN WIRE FENCE	
FENCING DETAILS	
WOVEN WIRE FENCE TYPE 1	
WOVEN WIRE FENCE TYPE 2	RFW-006-06
~ GENERAL ~	
CURVE WIDENING AND SUPERELEVATION	
CURVE WIDENING AND SUPERELEVATION TRANSITIONS	RGS-001-06
SUPERELEVATION FOR MULTILANE PAVEMENTS	
MISCELLANEOUS STANDARDS	
MISCELLANEOUS STANDARDS PART 1	RGX-001-05
RETAINING WALL GRAVITY TYPE NON-REINFORCED	
TEMPORARY BRIDGE OR PAVEMENT CROSSOVER	
RIGHT OF WAY MONUMENTS	
TYPICAL EMBANKMENT FOUNDATION BENCHES	
SETTLEMENT PLATFORM	
CONCRETE STEPS.	
HANDRAIL TYPE A, A-1, A-2, A-3, A-4	
GABION RETAINING WALLS	
BREAKAWAY SIGN SUPPORT SYSTEM FOR TYPE C BEAM	
FOOTING DETAILS FOR TYPE C BEAM	
TYPE D BREAKAWAY SIGN SUPPORT	
TREATMENT OF EMBANKMENTS AT END-BENTS	
TREATMENT OF EMBANKMENTS AT END-BENTS	
ONE POINT PROCTER FAMILY OF CURVES	RGX-200

~ PAVEMENT ~

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.	
PERMANENT U-TURN MEDIAN OPENING	RPM-001-03
STANDARD BARRIER MEDIAN	RPM-010-05
MOUNTABLE MEDIAN	RPM-011-05
MOUNTABLE MEDIAN TYPE 6A	RPM-012-03
MOUNTABLE MEDIAN TYPE 7A	
CURB AND GUTTER, CURBS AND VALLEY GUTTER	
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT	
CONCRETE TERMINAL SECTION TYPE 1	
ISLAND CURB CONSTRUCTION DETAILS (RIGID & FLEXIBLE PAVEMENT)	
PRECAST VEHICLE STOP	
RUMBLE STRIPS	
RUMBLE STRIPS TYPE 3	
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK	
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK	
TYPICAL INSTALLATIONS FOR SIDEWALK RAMPS	
SIDEWALK RAMPS	
SIDEWALK RAMP	RPM-172-05
NON DEINEODGED GONGDEEL DAVENENT	
NON-REINFORCED CONCRETE PAVEMENT	
NON-REINFORCED CONCRETE PAVEMENT FOR SHOULDERS AND MEDIANS	RPN-001-06
PAVEMENT TRANSITIONS AND JOINT DETAILS FOR NON-REINFORCED CONCRETE PAVEMENT	
AT BRIDGE ENDS	
NON-REINFORCED CONCRETE PAVEMENT	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	RPN-020-03
CTANDADD DEINEODCED CONCDETE DAVEMENT	
STANDARD REINFORCED CONCRETE PAVEMENT	DDG 010 10
CONCRETE PAVEMENT JOINT DETAILS	
EXPANSION AND CONTRACTION JOINTS - LOAD TRANSFER ASSEMBLIES	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
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CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TYPES AND SPACING	
CONCRETE PAVEMENT JOINTS - TIPES AND SPACING	KPS-039-03
MISCELLANEOUS PAVING	
STATION MARKINGS - CONCRETE PAVEMENT	RPX-001-03
PREFORMED COMPRESSION JOINT SEAL FOR CONCRETE PAVEMENT	
HOT POURED ELASTIC JOINT SEALS FOR CONCRETE PAVEMENT	
SILICONE RUBBER SEALS USED IN PORTLAND CONCRETE PAVEMENT	
ACCESSIBLE PARKING SPACE DETAILS	
~ ROADSIDE DEVELOPMENT ~	
EROSION CONTROL	
NETTING	RRE-002-04
PLANTS_	
PLANTING AND STAKING DETAILS	RRP_001_0/
LETTE OTED STRIM O DETTIES	

TRAFFIC

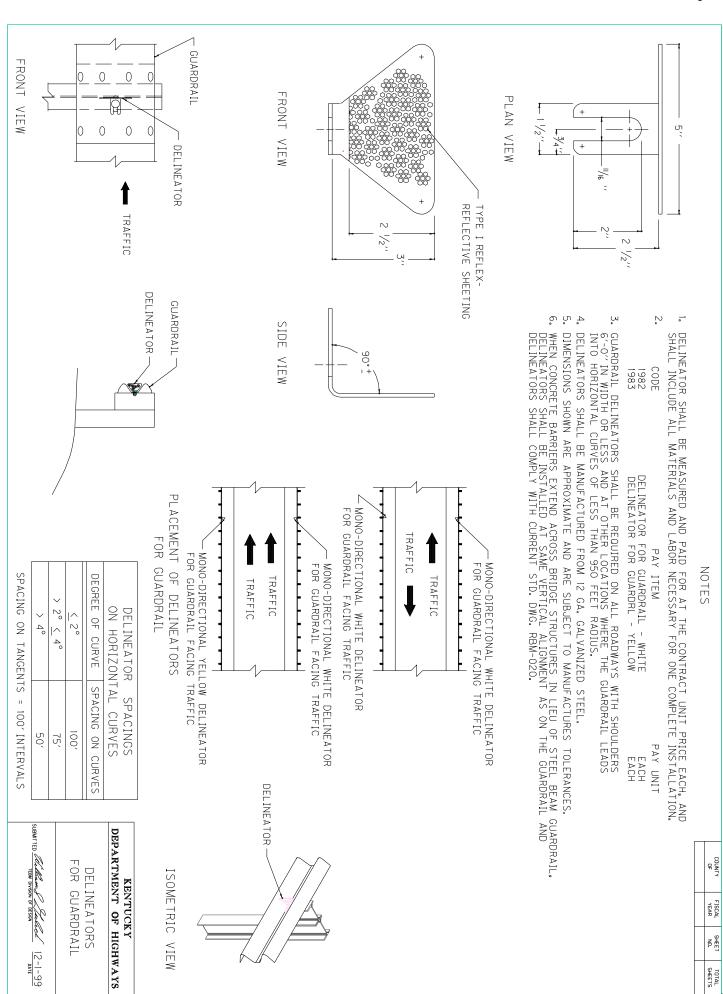
~ PERMANENT ~

RAISED PAVEMENT MARKERS

PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS	
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS	
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS	
PAVEMENT MARKER ARRANGEMENTS TWO-LANE TWO-WAY ROADWAYS	TPM-115-01
PAVEMENT MARKER ARRANGEMENT TWO-LANE TO FOUR-LANE TRANSITIONS	TPM-120-01
PAVEMENT MARKER ARRANGEMENT EXIT-GORE AND OFF-RAMP	TPM-125-01
PAVEMENT MARKER ARRANGEMENTS ON-RAMP WITH TAPERED ACCELERATION LANE	TPM-130-01
PAVEMENT MARKER ARRANGEMENT ON-RAMP WITH PARALLEL ACCELERATION LANE	TPM-135-01
PAVEMENT MARKER ARRANGEMENTS TWO-WAY LEFT TURN LANE	TPM-140-01
PAVEMENT MARKER ARRANGEMENT CHANNELIZED INTERSECTION	TPM-145-01
~ TEMPORARY ~	
TRAFFIC CONTROL LANE CLOSURE TWO-LANE HIGHWAY CASE I	TTTC 100 01
LANE CLOSURE TWO-LANE HIGHWAY CASE II	
LANE CLOSURE USING TRAFFIC SIGNALS	
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	
LANE CLOSURE MULTI-LANE HIGHWAY CASE II	
DOUBLE LANE CLOSURE	
SHOULDER CLOSURE	
MEDIAN CROSSOVER CASE I	
MEDIAN CROSSOVER CASE I	
MEDIAN CROSSOVER CASE II	
MEDIAN CROSSOVER CASE II	
ROAD CLOSURE WITH DIVERSION	
TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR CONSTRUCTION ZONES TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR LANE CLOSURES	
TEWI ORAK I TAVEWENT MARKER ARRANGEWENTS FOR LANE CLOSURES	11C-100-01
<u>DEVICES</u>	
POST SPLICING DETAIL	
WORK ZONE SPEED LIMIT AND DOUBLE FINE SIGNS	
PAVEMENT CONDITION WARNING SIGNS	TTD-125
STRIPING OPERATIONS	
MOBILE OPERATION FOR PAINT STRIPING CASE I	
MOBILE OPERATION FOR PAINT STRIPING CASE II	
MOBILE OPERATION FOR PAINT STRIPING CASE III	TTS-110-01
MOBILE OPERATION FOR PAINT STRIPING CASE IV	TTS-115-01
MOBILE OPERATION FOR DURABLE STRIPING CASE I	TTS-120-01
MOBILE OPERATION FOR DURABLE STRIPING CASE II	TTS-125-01
MOBILE OPERATION FOR DURABLE STRIPING CASE III	TTS-130-01
MOBILE OPERATION FOR DURABLE STRIPING CASE IV	TTS-135-01
BRIDGES	
BEARING DEVICES	
ELASTOMETRIC BEARING PADS FOR PRESTRESSED BEAMS	BBP-001-11
BEARING DETAILS	

ELASTOMETRIC BEARING PADS FOR BOX BEAMSBBP-003-01

BOX BEAM GENERAL NOTES & REFERENCES	
BOX BEAM BEARING DETAILS	
BOX BEAM MISCELLANEOUS DETAILS	
BOX BEAM TENSION ROD DETAILS	
RAILING SYSTEM TYPE II	
BOX BEAM B12 & CB12 DETAILS	
BOX BEAM B17 & CB17 DETAILS	
BOX BEAM B21 & CB21 DETAILS	
BOX BEAM B27 & CB27 DETAILS	
BOX BEAM B33 & CB33 DETAILS	
BOX BEAM B42 DETAILS	
BOX BEAM CB42 DETAILS	BDP-012-03
SLAB BRIDGE FOR 12" & 17" BEAMS	BDP-013-01
MISCELLANEOUS STANDARDS	
CONCRETE SLOPEWALLS FOR GRADE SEPARATION BRIDGES	BGX-004-09
CONCRETE SLOPEWALLS FOR GRADE SEPARATION BRIDGES	
STENCILS FOR STRUCTURES	
BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS	
GEOTECHNICAL LEGEND	
BRIDGE DRAINS	
LOW FLOW DIVERSION CURB	
APPROACH SLAB	
ALI KOACII SLAD	BGA-017
DAILING CVCTEMC	
RAILING SYSTEMS RAILING SYSTEM, TYPE II, GUARDRAIL TREATMENT	D*** 00= 0=
RAIL SYSTEM TYPE 3	BHS-008
<u>JOINTS</u>	
NEOPRENE EXPANSION DAMS AND ARMORED EDGES	BJE-001-11
CONCRETE PILES	
14" REINFORCED CONCRETE PILE	BPC-002-08
PRECAST PRESTRESSED 14" CONCRETE PILE	
TRECAST TRESTRESSED 14 CONCRETE TIEE	
STEEL PILES	
HP12 X 53 BEARING PILE	DDG 002 00
HP14 X 73 BEARING PILE	
HP14 X 89 BEARING PILE	BPS-011-03



PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

FLOYD COUNTY FD51 036 1086 002-003

Contract ID: 092257 Page 50 of 58

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

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

- I. Application
- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages
- IV. Statements and Payrolls

I. APPLICATION

- 1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.
- 2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.
- 3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY GENERAL ASSEMBLY TO PREVENT DISCRIMINATION IN EMPLOYMENT KRS CHAPTER 344 EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

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

because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to provide apprenticeship or other training.

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

III. PAYMENT OF PREDETERMINED MINIMUM WAGES

- 1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.
- 2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

- 1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.
- 2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.
- 3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

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

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

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit

records and information which will aid in determining the true facts relating to the reported violations.

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

- 4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.
- 5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.
- 6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.
- 7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.
- 8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.
- 9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.
- 10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

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

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

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

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

Revised 2-16-95

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EXECUTIVE BRANCH CODE OF ETHICS

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

KRS 11A.040 (6) provides:

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

KRS 11A.040 (8) states:

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

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

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

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

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

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

Kentucky Equal Employment Opportunity Act of 1978

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

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TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

WORKERS	MINIMUM HOURLY
RATE	\$7.25

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

Federal-State Sheet 1 of 1

PART IV

INSURANCE

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INSURANCE

The Contractor shall carry the following insurance in addition to the insurance required by law:

- 1. Contractor's Public Liability Insurance not less than \$100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than \$300,000.00 for damages arising out of bodily injuries to or death to two or more persons.
- 2. Contractor's Property Damages Liability Insurance. Not less than \$100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than \$300,000.00 for all damages during the policy period.
- 3. Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.
- 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. 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.

PART V

BID ITEMS

FLOYD COUNTY FD51 036 1086 002-003

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

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CONTRACT ID: 092257

COUNTY: FLOYD

PROPOSAL: FD51 036 1086 002-003

PAGE: 1 LETTING: 07/24/09 CALL NO: 323

LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
	SECTION 0001	ROADWAY			
0010	00001	DGA BASE	115.000 TON		
0020	00221	CL2 ASPH BASE 0.75D PG64-22	55.000 TON		
0030	00301 	CL2 ASPH SURF 0.38D PG64-22	75.000 TON	 	
0040	01982 	DELINEATOR FOR GUARDRAIL-WHITE	5.000 EACH	 	
0050	02014	BARRICADE-TYPE III	2.000 EACH	 	
0060	02200	ROADWAY EXCAVATION	140.000 CUYD	 	
0070	02223	GRANULAR EMBANKMENT	188.000 CUYD	 	
0080	02351 	GUARDRAIL-STEEL W BEAM-S FACE	262.500 LF	 	
0090	02371 	GUARDRAIL END TREATMENT TYPE 7	2.000 EACH	 	
0100	02484	CHANNEL LINING CLASS III	300.000 TON	 	
0110	02562	SIGNS	150.000 SQFT	 	
0120	02596 	FABRIC-GEOTEXTILE TYPE I	1,350.000 SQYD	 	
0130	02650 	MAINTAIN & CONTROL TRAFFIC	(1.00) LS	 	
0140	02726 	STAKING	(1.00) LS	 	
0150	06514 	PAVE STRIPING-PERM PAINT-4 IN	500.000 LF	 	
	SECTION 0002	DEMOBILIZATION			
0160	02569 	DEMOBILIZATION (AT LEAST 1.5%)	LUMP	 	
		TOTAL BID	 		