CIDCECTION	101.02 Abbassisting						
SUBSECTION: REVISION:	101.02 Abbreviations.  Insert the following abbreviation and text into the section:						
REVISION.	most the following approviation and text into the section.						
	KEPSC Kentucky Erosion Prevention and Sediment Control						
SUBSECTION:	101.03 Definitions.						
REVISION:	Replace the definition for Specifications – Special Provisions with the following:						
	Additions and ravisions to the Standard and Supplemental Specifications covering conditions recovling to						
	Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to and individual project.						
	and marriage projects						
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/).						
	(http://ttalisportation.ky.gov/contract/).						
	Delete the second paragraph.						
	Delete the least represent						
	Delete the last paragraph.						
SUBSECTION:	102.04 Issuance of Bid Proposal Form.						
<b>REVISION:</b>	Replace Heading with the following:						
	102 04 Piddon Pagistration						
	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:	102.06 Examination of Plans, Specifications, Special Provisions, Special Notes, and Site of Work.						
REVISION:	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:	102.07.01 General.						
REVISION:	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:						
	replace the first sentence of the tillite paragraph with the following.						
	Bid proposals submitted shall use an eligible Digital ID issued by Bid Express.						

SUBSECTION:	102.07.02 Computer Bidding.						
REVISION:	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.						
	electromeany unough Did Express Didding Service.						
	Delete the second and third paragraph.						
	20000 the south and amo paragraphs						
SUBSECTION:	102.08 Irregular Bid Proposals.						
REVISION:	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:						
	1) 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						
	3) any failure to comply with the provisions of Subsection 102.07; or						
	4) 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:	102.09 Bid Proposal Guaranty.						
REVISION:	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.						
	ran						
SUBSECTION:	102.10 Delivery of Bid Proposals.						
REVISION:	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:	102.11 Withdrawal or Revision of Bid Proposals.						
REVISION:	Replace the paragraph with the following:						
112 (1510)	Toping and 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.						
SUBSECTION:	102.13 Public Opening of Bid Proposals.						
REVISION:	Replace Heading with the following:						
	102.13 Public Announcement of Bid Proposals.						
	Replace the paragraph with the following:						
	The Department will publicly announce all Bid Proposals at the time indicated in the Notice to						
	Contractors.						

SUBSECTION: REVISION:	103.02 Award of Contract.  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: REVISION:	105.03 Record Plans. 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.
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 inspections; and the 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 n

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.						
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,						
	<ul> <li>Galvanizing,</li> <li>Painting, and</li> <li>Other coating that protects or enhances the value of steel or iron products.</li> </ul>						
	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,						
	<ul> <li>Processed, pelletized, and reduced iron ore material, or</li> <li>Processed alloys.</li> </ul>						
	The Contractor shall submit a certification stating that all manufacturing processes involved w the production of steel or iron materials occurred in the United States.						
	Produce, mill, fabricate, and manufacture in the United States of America all alumi components of bridges, tunnels, and large sign support systems, for which either shop fabrication, inspection, or certified mill test reports are required as the basis of acceptance by the Department.						
	Use foreign materials only under the following conditions:						
	<ol> <li>When the materials are not permanently incorporated into the project; or</li> <li>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.</li> </ol>						
	The Contractor shall submit to the Engineer the origin and value of any foreign material used.						

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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:	108.02 Progress Schedule.						
REVISION:	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						
	<ul> <li>Projects that contain Special Provision 82</li> </ul>						
	Projects that contain the Special Note for CPM Scheduling						
	·J. · · · · · · · · · · · · · · · · · ·						
	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.						
	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' website (http://www.transportation.lev.gov/construction/PcoContor/ResContor.htm)						
	website (http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm).						
	Replace Part A) Written Narrative 1. And 2. with the following:						
	replace Late (1) with manual ve 1. And 2. with the following.						
	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.						

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: REVISION:	110.02 Demobilization. Replace the third paragraph with the following:
	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.
REVISION:	Insert the following paragraph following the demobilization payment schedule (4 <sup>th</sup> paragraph):
	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:	112.03.11 Temporary Pavement Markings.
PART:	B) Placement and Removal of Temporary Striping.
REVISION:	Replace the 2 <sup>nd</sup> 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.

(Effective with the August 27, 2010 Letting)

#### 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.

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 daytime work that occupies a location for more than 1 hour within a single daylight 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: REVISION:	206.03.02 Embankment 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. 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 5 days.
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: REVISION:	213.03.05 Temporary Control Measures. F) Temporary Mulch. 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: REVISION:	401.02.04 Special Requirements for Dryer Drum Plants. F) Production Quality Control. 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:	1 1							
	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 interrupted or deviates from the prescribed water rate.							
SUBSECTION:	401.03.01 Preparation of Mix							
<b>REVISION:</b>	Replace the last sentence of t	the second paragraph w	vith the following:					
	Do not use asphalt binder wh	nile it is foaming in a st	orage tank.					
SUBSECTION:	401.03.01 Preparation of Mix	xtures						
REVISION:	Replace the third paragraph a		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)	eled Asphalt Pavement	240	_				
	Asphalt Binders	PG 64-22	230	330				
		PG 76-22	285 250	350				
	Asphalt Mixtures at Plant	1 P( ± 64-77 HMA 1						
	Asphalt Mixtures at Plant (Measured in Truck)	PG 64-22 HMA PG 76-22 HMA		330 350				
	Asphalt Mixtures at Plant (Measured in Truck)	PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA	310 230	350 350 275				
	(Measured in Truck)	PG 76-22 HMA	310 230 250	350 275 300				
	(Measured in Truck)  Asphalt Mixtures at Project	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA	310 230 250 230	350 275 300 330				
	(Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA PG 76-22 HMA	310 230 250 230 300	350 275 300 330 350				
	(Measured in Truck)  Asphalt Mixtures at Project	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA	310 230 250 230	350 275 300 330				
	(Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA	310 230 250 230 300 210	350 275 300 330 350 275				
	(Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck When Discharging)  402.01 Description.	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA	310 230 250 230 300 210	350 275 300 330 350 275				
SUBSECTION: REVISION:	(Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck When Discharging)	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 64-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA	310 230 250 230 300 210	350 275 300 330 350 275				
	(Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck When Discharging)  402.01 Description. Replace the paragraph with the Provide the process control at the process co	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 WMA he following:	310 230 250 230 300 210 240 of all classes and ty	350 275 300 330 350 275				
SUBSECTION: REVISION:	Asphalt Mixtures at Project (Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck When Discharging)  402.01 Description.  Replace the paragraph with t  Provide the process control a may be furnished either as he	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 WMA he following:	310 230 250 230 300 210 240 of all classes and ty	350 275 300 330 350 275 300 pes of asphalt mixtures which				
	Asphalt Mixtures at Project (Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck When Discharging)  402.01 Description.  Replace the paragraph with t  Provide the process control a may be furnished either as he	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 WMA he following:	310 230 250 230 300 210 240 of all classes and ty	350 275 300 330 350 275 300 pes of asphalt mixtures which				
	Asphalt Mixtures at Project (Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck When Discharging)  402.01 Description.  Replace the paragraph with t  Provide the process control a may be furnished either as he	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 WMA he following:	310 230 250 230 300 210 240 of all classes and ty	350 275 300 330 350 275 300 pes of asphalt mixtures which				
	Asphalt Mixtures at Project (Measured in Truck)  Asphalt Mixtures at Project (Measured in Truck When Discharging)  402.01 Description.  Replace the paragraph with t  Provide the process control a may be furnished either as he	PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 HMA PG 76-22 HMA PG 64-22 WMA PG 76-22 WMA PG 76-22 WMA he following:	310 230 250 230 300 210 240 of all classes and ty	350 275 300 330 350 275 300 pes of asphalt mixtures which				

SUBSECTION REVISION:							
	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, 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:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. C) Conventional and RAP Mixtures Placed on Shoulders. Replace title with the following: HMA, WMA, and RAP Mixtures Placed on Shoulders.						
SUBSECTION:							
PART: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.  D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.  Replace the title with the following:						
	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 0.95 0.1-0.5 below min.						
	0.90 0.6-1.0 below min.  (1) > 1.0 below min.						

SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.						
PART:	Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures						
TABLES:							
REVISION:	Replace the VMA table with the following:						
		V	VMA				
		Pay Value	Dev	viation	1		
		Tuy value		Minimum			
		1.00		n. VMA	1		
		0.95		pelow min.	1		
		0.90		pelow min.	1		
		(1)		elow min.	1		
SUBSECTION:	402.05.02 Asphalt Mixtures, HM	IA and WMA, Inc	luding Mi	xtures W	ith RAP.		
PART:	Lot Pay Adjustment Schedule, C						
TABLE:	VMA						
REVISION:	Replace the VMA table with the	following:					
			VMA		7		
		Pay Value		viation			
				Minimum	4		
		1.00		n. VMA			
		0.95		below min.			
		0.90		below min.	_		
		(2)	> 1.0 t	elow min.			
SUBSECTION:	403.03.03 Preparation of Mixture	e.					
PART:	C) Mix Design Criteria.						
NUMBER: REVISION:	Preliminary Mix Design.  Replace the last two sentences of	f the naraoranh and	l table wi	th the foll	owing.		
REVISION.	Replace the last two sentences of	i the paragraph and	i tubic wi	in the fon	owing.		
	Complete the volumetric mix de						
	for the number of 20-year classes, as given in the bid i	ESAL's. The De	partment	will defi	ne the re	lationship	between ESAL
	classes, as given in the bid i	tems for Superpav	e mixture	s, and 20-	-year ESA	AL ranges	as follows:
				Numbe	er of Gyr	ations	
	Class	ESAL's (mill	ions)	$N_{ m initial}$	$N_{ m design}$	$N_{ m max}$	
	2	< 3.0		6	50	75	
	3	3.0  to < 30	0.0	7	75	115	
	4	≥ 30.0		8	100	160	
SUBSECTION:	403.03.09 Leveling and Wedging	g, and Scratch Cou	ırse.				
PART:	A) Leveling and Wedging.	J,					
REVISION:	Replace the first sentence of the	first paragraph wit	th the follo	owing:			
	Conform to the analytican		:m4a) -£ 4	A CHITTO P	W 222 E	. h.o 1.'	.dan an ar
	Conform to the gradation require as the Engineer directs.	ements (control por	ints) of A.	ASHIU	VI 323 TOI	r base, bir	ider, or surface
	as the Engineer directs.						
SUBSECTION:	403.03.09 Leveling and Wedging	g, and Scratch Cou	ırse.				
PART:	B) Scratch Course.						
REVISION:	Replace the second sentence of t	he first paragraph	with the f	ollowing:			
	Conform to the gradation require	ements (control po	inte) of A	Δ SHTΩ Ν	M 323 for	hase bir	nder or surface
	Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.						
	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:
TEL VISION	replace the first semence 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.
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:	B) Requirements.
NUMBER:	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:	2) Category B.
REVISION:	Replace the second and third sentence of the first paragraph with the following:
REVISION.	replace the second and time 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:	413.05.02 CL3 SMA BASE 1.00D 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.

CLIDGE CTION.	412.05.02.CL 2.CN	AA DACE 1 OOD E	OC 76 00					
SUBSECTION: TABLE:								
REVISION:								
			LANE DENSITY					
		Pa	y Value	Test Res	sult (%)			
			1.05	95.0-				
			1.00	93.0-				
			0.95	92.0-92.9 o				
			0.90	91.0-91.9 o				
			(1)	< 91.0 or	r > 97.5			
SUBSECTION:	413.05.03 CL3 SM	A SURF 0.50A P	G76-22 and	CL3 SMA SU	JRF 0.38A PG76-22.			
REVISION:	Insert the following	g sentence between	n the first an	d second sent	ence of the first paragra	ph:		
	The Department wi	ill calculate the Lo	t Pav Adius	tment using a	ll possible incentives an	nd disincentives		
	but will not allow t					ia disincenti ves		
CLIDGE CTION.	412.05.02.CL 2.SM	A CUDE O FOA D	C76 22 and	CI 2 CMA CI	JRF 0.38A PG76-22.			
SUBSECTION: TABLE:	JOINT DENSITY		G/6-22 and	CL3 SMA SU	JRF 0.38A PG/0-22.			
REVISION:	Replace the joint de		ne following	<b>;</b> :				
	Ī		D	ENSITY				
		Pay Value		Density	Joint Density			
				esult (%)	Test Result (%)			
		1.05	95.	0-96.5	92.0-96.0			
		1.00		0-94.9	90.0-91.9			
		0.95			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			
		0.75	21.0		< 88.0 or > 97.0			
		(1)	< 91.0	or > 97.5				
SUBSECTION:	501.05.02 Ride Qu		1 6 1 6	1				
REVISION:	Add the following	sentence to the end	of the first	paragrapn:				
	The sum of the pay	value adjustments	s for the ride	e quality shall	not exceed \$0 for the p	roject as a whole.		
CLIDGE CTION.	505 02 04 Data ata	h1. W/						
SUBSECTION: REVISION:	505.03.04 Detectal Replace the first se		llowing:					
	-							
	Install detectable w Standard Drawings		ll sidewalk	ramps and on	all commercial entrance	es according to the		
	Standard Drawings	•						

SUBSECTION: REVISION:  Sobject the paragraph with the following:  The Department will measure the quantity in square feet. All retrofit applications for maintenance projects will require the removal of existing sidewalks to meet the requirements of the standard drawings applicable to the project. The cost associated with the removal of the existing sidewalk will be incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted.  SUBSECTION: REVISION:  SUBSECTION:  Code Pay Item Pay Unit Square Foot  SUBSECTION: REVISION:  SUBSECTION: REVISION:  The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by the Standard Drawings. Obtain the Engineers approval prior to use. Ensure the barrier wall shape,
projects will require the removal of existing sidewalks to meet the requirements of the standard drawings applicable to the project. The cost associated with the removal of the existing sidewalk will be incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted.  SUBSECTION:  REVISION:  505.05 PAYMENT.  Add the following to the bid item table:  Code 23158ES505  Detectable Warnings  Pay Unit Square Foot  SUBSECTION:  REVISION:  509.01 DESCRIPTION.  Replace the second paragraph with the following:  The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by
REVISION: Add the following to the bid item table:    Code
23158ES505 Detectable Warnings Square Foot  SUBSECTION: 509.01 DESCRIPTION. REVISION: Replace the second paragraph with the following:  The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by
REVISION: Replace the second paragraph with the following:  The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by
Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by
length, material, drain slot dimensions and locations typical features are met and the reported maximum deflection is 3 feet or less from the NCHRP 350 TL-3 for Test 3 – 11 (pickup truck impacting at 60 mph at a 25-degree angle.)
SUBSECTION: 601.03.02 Concrete Producer Responsibilities.  REVISION: 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: 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 606.04.08.
SUBSECTION: 609.05 Payment.  REVISION: Replace the Pay Unit for Joint Sealing with the following:
See Subsection 606.05.
SUBSECTION: 701.03.06 Initial Backfill.
<b>REVISION:</b> 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.

(Effective with the August 27, 2010 Letting)

**REVISION:** 

701.03.08 Testing of Pipe.

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:

701.05 PAYMENT.

#### **REVISION:**

Add the following pay item to the list of pay items:

Pay Item

Code 23131ER701

Pipeline Video Inspection

Pay Unit Linear Foot

SUBSECTION: TABLE:	701.05 PAYMENT PIPE DEFLECTION DETERMINED BY CAMERA TESTING									
REVISION:	Replace this table with the following table and note:									
	PIPE DEFLECTION									
	Amount of Deflection (%)  Payment									
	0.0 to 5.0		of the Unit Bid Price							
	5.1 to 9.9		f the Unit Bid Price (1)							
	10 or greater	ve and Replace								
		Provide Structural Analysis as indicated above. Based on the structural analysis, pipe may be lowed to remain in place at the reduced unit price.								
SUBSECTION:	701.05 PAYMENT									
TABLE:	PIPE DEFLECTION DETERMINED BY MANDREL TESTING									
REVISION: SUBSECTION:	Delete this table. 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 pavement striping that is 6 inches in width.									
SUBSECTION:	11									
REVISION:	Replace the second paragraph with the following table:									
	Material	Paint Application Rate	Glass Beads Application Rate							
	4 inch waterborne paint	Min. of 16.5 gallons/mile	Min. of 6 pounds/gallon							
	6 inch waterborne paint 6 inch durable waterborne paint	Min. of 24.8 gallons/mile Min. of 36 gallons/mile	Min. of 6 pounds/gallon Min. of 6 pounds/gallon							
	o inchi durable waterborne paint	Mill. of 30 gallons/fille	Mill. of 6 pounds/ganon							
SUBSECTION:	713.03.04 Marking Removal.									
REVISION:	Replace the last sentence of the par	ragraph with the following:								
	Vacuum all marking material and r	emoval debris concurrently w	rith the marking removal operation.							
SUBSECTION:	713.05 PAYMENT.									
REVISION:	Insert the following codes and pay	items below the Pavement Str	riping – Permanent Paint:							
	Code Describera		Described							
	<u>Code</u> <u>Pay Item</u> 23159EN Durable Waterbo	rne Marking – 6 IN W	Pay Unit Linear Foot							
		rne Marking – 6 IN Y	Linear Foot							
SUBSECTION:	714.03 CONSTRUCTION.									
REVISION:	Insert the following paragraph at the	e 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 debric concurrently with the marking removal exerction							
	Vacuum all marking material and removal debris concurrently with the marking removal operation.							
SUBSECTION:	716.01 DESCRIPTION.							
REVISION:	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:							
KEVISION.	Replace the unit 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.							
	INTERDECTION WINKINGS.							
SUBSECTION:	717.01 DESCRIPTION:							
<b>REVISION:</b>	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:	717.03.03 Application.							
REVISION:	Insert the following part to the subsection:							
	<b>61</b>							
	B) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut							
	all tape at pavement joints when applied to concrete surfaces.							
CIDCECTION	717 02 05 Proving Pariod							
SUBSECTION: PART:	717.03.05 Proving Period. A) Requirements.							
REVISION:	Insert the following to this section:							
REVISION.	most the following to this section.							
	2) Type I Tape. During the proving period, ensure that the pavement marking material shows no signs							
	of failure due to blistering, excessive cracking, bleeding, staining, discoloration, oil content of the							
	pavement materials, drippings, chipping, spalling, poor adhesion to the pavement, loss of							
	retroreflectivity, vehicular damage, and normal wear. Type I Tape is manufactured off site and							
	warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is							
	adequately bonded to the surface and shows no signs of failure due to the other items listed in Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings,							
	the Department will accept tape based on a nighttime visual observation.							
	and Department will accept tape based on a inglituine visual observation.							
l	I							

SUBSECTION:	717.03.06 Marking Removal.								
REVISION:	Replace the third sentence of the paragraph with the following:								
	Warmen all models and add and amount debate and a 12 day 12 day								
	Vacuum all marking material and removal debris concurrently with the marking removal operation.								
GLIDGEGERON	717 OF DAVIMENT								
SUBSECTION:	717.05 PAYMENT.								
REVISION:	Insert the following bid item co	des:							
	Code	Day Hait	Day Itam						
	Code 06563	Pay Unit Pave Marking – R/R X Bucks 16 IN	Pay Item Linear Foot						
	20782NS714	Pave Marking Thermo – Bike	Each						
	23251ES717, 23264ES717 Pave Mark TY I Tape X-Walk, Size Linear Foot								
	23252ES717, 23265ES717 Pave Mark TY I Tape Stop Bar, Size Linear Foot								
	23253ES717	Pave Mark TY I Tape Cross Hatch	Square Foot						
	23254ES717	Pave Mark TY I Tape Dotted Lane Extension	Linear Foot						
	23255ES717	Pave Mark TY I Tape Arrow, Type	Each						
	23268ES717-23270ES717	D. M. LEWIE CHAN	г 1						
	23256ES717	Pave Mark TY I Tape- ONLY	Each						
	23257ES717 Pave Mark TY I Tape- SCHOOL Each								
	23266ES717 Pave Mark TY 1 Tape R/R X Bucks-16 IN Linear Foo								
	23267ES717 Pave Mark TY 1 Tape-Bike Each								
GLIDGEGETON	725 02 02 T VI CI C 0 0								
SUBSECTION:	725.02.02 Type VI Class C & C								
REVISION:	Replace bullet 2) with the follo	owing:							
	2) The SCI100GM System as developed by SCI Products, Inc. of St. Charles, Illinois. For all								
		work conform to ASTM A 36 and galvanize according							
		nder panels conform to AASHTO 180. Galvanize the							
		I -beam connectors after fabrication according to AST							
SUBSECTION:	725.02.04 Type VII Class C.								
REVISION:	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:	805.01 GENERAL.								
REVISION:	Replace the second paragraph v	vith the following:							
		oved Materials includes the Aggregate Source List, the	e list of Class A and						
	Class B Polish-Resistant Aggre	gate Sources, and the Concrete Restriction List.							
GYID GE GEYOY	205.04 GOVGDETT								
SUBSECTION:	805.04 CONCRETE.	and the first contains of the first state of the fi	WIZN I C I COO"						
REVISION:	Replace the "AASH1O 1 160"	reference in first sentence of the third paragraph with	"KM 64-629"						
SUBSECTION:	805 15 CDADATION ACCED	TANCE OF NON-SPECIFICATION COARSE AGG	PECATE						
TABLE:	AGGREGATE SIZE USE	TANCE OF NON-SEECHTCATION COARSE AGO	INEUATE.						
PART:	Cement Concrete Structures and	d Incidental Construction							
REVISION:		g Overlays" with "8 or 9-M for Waterproofing Overla	vs"						
KE VISION.	Replace 3-W for waterproofing	as overlays with our y-writer waterproofing overla	1,76						

(Effective with the August 27, 2010 Letting)

SUBSECTION: 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.

**REVISION:** Replace the "SIZES OF COARSE AGGREGATES" table in with the following:

SIZES OF COARSE AGGREGATES																	
	Sieve AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT																
Aggregate Size	Nominal <sup>(3)</sup> 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 ½ 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 ½ inch					100	90-100	20-55	0-15		0-5						
467	1 ½ 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 <sup>(I)</sup>	3/4 inch							100	70-100		50-80	30-65			10-40		4-13
CRUSHED STONE BASE (1)	1 ½ inch				100		90-100		60-95		30-70	15-55			5-20		0-8

<sup>(1)</sup> 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.

<sup>(2)</sup> Sizes shown for convenience and are not to be considered as coarse aggregates.

<sup>(3)</sup> Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

SUBSECTION:	805.16 SAMPLING AND TESTING.								
REVISION:	Replace the "AASHTO T 160" method with the "KM 64-629" method for the Concrete Beam Expansion								
REVISION.	Test.								
	Replace the "ASTM D 3042" method with the "KM 64-625" method for Insoluble Residue.								
	Treplace and The Int D 50 12 Medica with the Thirt of 025 Medica for Misolatic Residue.								
SUBSECTION:	810.04.01 Coating Requirements.								
REVISION:	Replace the "Subsection 806.07" references with "Subsection 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.								
SUBSECTION:	837.03 APPROVAL.								
REVISION:	Replace the last sentence with the following:								
	The Deposition and will comple and evaluate for annound and late of the own relation and will be a like								
	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.								
	minimum of 10 working days to evaluate and approve diethiopiastic material.								
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								
SECTION:	DIVISION 800 MATERIAL DETAILS								
REVISION:	Add the following section in Division 800								
	SECTION 846 – DURABLE WATERBORNE PAINT								
	SECTION 040 - DURABLE WATERDURINE PAINT								
	<b>846.01 DESCRIPTION.</b> 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.								
	946 02 Approval. Salact materials that conform to the composition requirements below. Dravida								
	<b>846.02 Approval.</b> 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								
	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.								
	1								
	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.								

(Effective with the August 27, 2010 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*	2.0ΔE*							
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 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 WATERBORNE PAVEMENT STRIPING PAINT REDUCTION SCHEDULE										
Non- conforming Property	Resin	Color	Contrast	TiO <sub>2</sub>	VOC	Heavy Metals Content				
Reduction Rate	60%	10%	10%	10%	60%	60%				