

**Supplemental Specifications to The Standard Specifications
for Road and Bridge Construction, 2008 Edition**
(Effective with the April 24, 2009 Letting)

SUBSECTION:	101.03 Definitions.
REVISION:	Replace the definition for Specifications – <i>Special Provisions</i> with the following: Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to and individual project.
SUBSECTION:	102.07.01 General.
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.
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 in the Bid Proposal 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.
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. 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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SUBSECTION:	105.12 FINAL INSPECTION AND ACCEPTANCE OF WORK.
REVISION:	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.
SUBSECTION:	112.03.11 Temporary Pavement Markings.
PART:	B) Placement and Removal of Temporary Striping.
REVISION:	Replace the 2nd 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.
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:	112.03.12 Project Traffic Coordinator (PTC).
REVISION:	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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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: 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:	213.03.05 Temporary Control Measures.
PART:	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:	401.02.04 Special Requirements for Dryer Drum Plants.
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 interrupted or deviates from the prescribed water rate.
SUBSECTION:	401.03.01 Preparation of Mixtures.
REVISION:	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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SUBSECTION:	401.03.01 Preparation of Mixtures.																																																			
REVISION:	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: <table><tr><th colspan="4">MIXING AND LAYING TEMPERATURES (°F)</th></tr><tr><th colspan="2">Material</th><th>Minimum</th><th>Maximum</th></tr><tr><td colspan="2">Aggregates</td><td>240</td><td>330</td></tr><tr><td colspan="2">Aggregates used with Recycled Asphalt Pavement (RAP)</td><td>240</td><td>—</td></tr><tr><td rowspan="2">Asphalt Binders</td><td>PG 64-22</td><td>230</td><td>330</td></tr><tr><td>PG 76-22</td><td>285</td><td>350</td></tr><tr><td rowspan="4">Asphalt Mixtures at Plant (Measured in Truck)</td><td>PG 64-22 HMA</td><td>250</td><td>330</td></tr><tr><td>PG 76-22 HMA</td><td>310</td><td>350</td></tr><tr><td>PG 64-22 WMA</td><td>230</td><td>275</td></tr><tr><td>PG 76-22 WMA</td><td>250</td><td>300</td></tr><tr><td rowspan="4">Asphalt Mixtures at Project (Measured in Truck When Discharging)</td><td>PG 64-22 HMA</td><td>230</td><td>330</td></tr><tr><td>PG 76-22 HMA</td><td>300</td><td>350</td></tr><tr><td>PG 64-22 WMA</td><td>210</td><td>275</td></tr><tr><td>PG 76-22 WMA</td><td>240</td><td>300</td></tr></table>			MIXING AND LAYING TEMPERATURES (°F)				Material		Minimum	Maximum	Aggregates		240	330	Aggregates used with Recycled Asphalt Pavement (RAP)		240	—	Asphalt Binders	PG 64-22	230	330	PG 76-22	285	350	Asphalt Mixtures at Plant (Measured in Truck)	PG 64-22 HMA	250	330	PG 76-22 HMA	310	350	PG 64-22 WMA	230	275	PG 76-22 WMA	250	300	Asphalt Mixtures at Project (Measured in Truck When Discharging)	PG 64-22 HMA	230	330	PG 76-22 HMA	300	350	PG 64-22 WMA	210	275	PG 76-22 WMA	240	300
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SUBSECTION:	402.01 Description.																																																			
REVISION:	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	402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval.																																																			
REVISION:	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:	402.05.02 Asphalt Mixtures and Mixtures With RAP.																																																			
REVISION:	Replace Subsection Title as below: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.																																																			

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SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.												
REVISION:	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 subplot and average the subplot 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:	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, Including Mixtures With RAP.												
PART:	D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.												
REVISION:	Replace the title with the following: HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.												
SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.												
PART:	Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures												
TABLES:	VMA												
REVISION:	Replace the VMA table with the following: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">VMA</th></tr> <tr> <th>Pay Value</th><th>Deviation From Minimum</th></tr> </thead> <tbody> <tr> <td>1.00</td><td>≥ min. VMA</td></tr> <tr> <td>0.95</td><td>0.1-0.5 below min.</td></tr> <tr> <td>0.90</td><td>0.6-1.0 below min.</td></tr> <tr> <td>(1)</td><td>> 1.0 below min.</td></tr> </tbody> </table>	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.
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SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.																											
PART:	Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures																											
TABLES:	VMA																											
REVISION:	Replace the VMA table with the following:																											
	<table><tr><th colspan="2">VMA</th></tr><tr><th>Pay Value</th><th>Deviation From Minimum</th></tr><tr><td>1.00</td><td>≥ min. VMA</td></tr><tr><td>0.95</td><td>0.1-0.5 below min.</td></tr><tr><td>0.90</td><td>0.6-1.0 below min.</td></tr><tr><td>⁽¹⁾</td><td>> 1.0 below min.</td></tr></table>					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.											
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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:																											
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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: <table><tr><th rowspan="2">Class</th><th rowspan="2">ESAL's (millions)</th><th colspan="3">Number of Gyrations</th></tr><tr><th>N_{initial}</th><th>N_{design}</th><th>N_{max}</th></tr><tr><td>2</td><td>< 3.0</td><td>6</td><td>50</td><td>75</td></tr><tr><td>3</td><td>3.0 to < 30.0</td><td>7</td><td>75</td><td>115</td></tr><tr><td>4</td><td>≥ 30.0</td><td>8</td><td>100</td><td>160</td></tr></table>					Class	ESAL's (millions)	Number of Gyrations			N _{initial}	N _{design}	N _{max}	2	< 3.0	6	50	75	3	3.0 to < 30.0	7	75	115	4	≥ 30.0	8	100	160
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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.																											

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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.
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: 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.

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SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG 76-22.																								
TABLE:	JOINT DENSITY TABLE																								
REVISION:	Replace the joint density table with the following: <table><tr><th colspan="2">LANE DENSITY</th></tr><tr><th>Pay Value</th><th>Test Result (%)</th></tr><tr><td>1.05</td><td>95.0-96.5</td></tr><tr><td>1.00</td><td>93.0-94.9</td></tr><tr><td>0.95</td><td>92.0-92.9 or 96.6-97.0</td></tr><tr><td>0.90</td><td>91.0-91.9 or 97.1-97.5</td></tr><tr><td>⁽¹⁾</td><td>< 91.0 or > 97.5</td></tr></table>	LANE DENSITY		Pay Value	Test Result (%)	1.05	95.0-96.5	1.00	93.0-94.9	0.95	92.0-92.9 or 96.6-97.0	0.90	91.0-91.9 or 97.1-97.5	⁽¹⁾	< 91.0 or > 97.5										
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SUBSECTION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22.																								
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph: The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.																								
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: <table><tr><th colspan="3">DENSITY</th></tr><tr><th>Pay Value</th><th>Lane Density Test Result (%)</th><th>Joint Density Test Result (%)</th></tr><tr><td>1.05</td><td>95.0-96.5</td><td>92.0-96.0</td></tr><tr><td>1.00</td><td>93.0-94.9</td><td>90.0-91.9</td></tr><tr><td>0.95</td><td>92.0-92.9 or 96.6-97.0</td><td>89.0-89.9 or 96.1-96.5</td></tr><tr><td>0.90</td><td>91.0-91.9 or 97.1-97.5</td><td>88.0-88.9 or 96.6-97.0</td></tr><tr><td>0.75</td><td>----</td><td>< 88.0 or > 97.0</td></tr><tr><td>⁽¹⁾</td><td>< 91.0 or > 97.5</td><td>----</td></tr></table>	DENSITY			Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)	1.05	95.0-96.5	92.0-96.0	1.00	93.0-94.9	90.0-91.9	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	0.75	----	< 88.0 or > 97.0	⁽¹⁾	< 91.0 or > 97.5	----
DENSITY																									
Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)																							
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0.75	----	< 88.0 or > 97.0																							
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SUBSECTION:	501.05.02 Ride Quality.																								
REVISION:	Remove the last sentence of the first paragraph.																								

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SUBSECTION:	501.05.02 Ride Quality.																																																											
TABLE:	RIDE QUALITY ADJUSTMENT SCHEDULES.																																																											
REVISION:	Replace the Ride Quality Adjustment Schedule table with the following:																																																											
	RIDE QUALITY ADJUSTMENT SCHEDULES <table><tr><th colspan="2">CATEGORY A PROJECTS</th><th colspan="2">CATEGORY B PROJECTS</th></tr><tr><th>IRI</th><th>Pay Value Adjustment⁽¹⁾</th><th>IRI</th><th>Pay Value Adjustment⁽¹⁾</th></tr><tr><td>60 to 80</td><td>0</td><td>66 to 85</td><td>0</td></tr><tr><td>81</td><td>-\$30</td><td>86</td><td>-\$20</td></tr><tr><td>82</td><td>-\$70</td><td>87</td><td>-\$45</td></tr><tr><td>83</td><td>-\$120</td><td>88</td><td>-\$80</td></tr><tr><td>84</td><td>-\$180</td><td>89</td><td>-\$120</td></tr><tr><td>85</td><td>-\$250</td><td>90</td><td>-\$170</td></tr><tr><td>86</td><td>-\$330</td><td>91</td><td>-\$220</td></tr><tr><td>87</td><td>-\$420</td><td>92</td><td>-\$280</td></tr><tr><td>88</td><td>-\$520</td><td>93</td><td>-\$350</td></tr><tr><td>89</td><td>-\$630</td><td>94</td><td>-\$420</td></tr><tr><td>90</td><td>-\$750</td><td>95</td><td>-\$500</td></tr><tr><td>91 or higher</td><td>corrective work⁽²⁾</td><td>96 or higher</td><td>corrective work⁽³⁾</td></tr></table> ⁽¹⁾ Contractor may correct areas to prevent a negative pay value adjustment. ⁽²⁾ When it is in the best interest of the Department, a minimum pay value deduction of \$1200 per 0.1-lane-mile section may be applied in lieu of corrective work. ⁽³⁾ When it is in the best interest of the Department, a minimum pay value deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.				CATEGORY A PROJECTS		CATEGORY B PROJECTS		IRI	Pay Value Adjustment ⁽¹⁾	IRI	Pay Value Adjustment ⁽¹⁾	60 to 80	0	66 to 85	0	81	-\$30	86	-\$20	82	-\$70	87	-\$45	83	-\$120	88	-\$80	84	-\$180	89	-\$120	85	-\$250	90	-\$170	86	-\$330	91	-\$220	87	-\$420	92	-\$280	88	-\$520	93	-\$350	89	-\$630	94	-\$420	90	-\$750	95	-\$500	91 or higher	corrective work ⁽²⁾	96 or higher	corrective work ⁽³⁾
CATEGORY A PROJECTS		CATEGORY B PROJECTS																																																										
IRI	Pay Value Adjustment ⁽¹⁾	IRI	Pay Value Adjustment ⁽¹⁾																																																									
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85	-\$250	90	-\$170																																																									
86	-\$330	91	-\$220																																																									
87	-\$420	92	-\$280																																																									
88	-\$520	93	-\$350																																																									
89	-\$630	94	-\$420																																																									
90	-\$750	95	-\$500																																																									
91 or higher	corrective work ⁽²⁾	96 or higher	corrective work ⁽³⁾																																																									
SUBSECTION:	505.03.04 Detectable Warnings.																																																											
REVISION:	Replace the first sentence with the following:																																																											
	Install detectable warning pavers at all sidewalk ramps and on all commercial entrances according to the Standard Drawings.																																																											
SUBSECTION:	505.04.04 Detectable Warnings.																																																											
REVISION:	Replace 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:	505.05 PAYMENT.																																																											
REVISION:	Add the following to the bid item table:																																																											
	Code	Pay Item	Pay Unit																																																									
	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 the Standard Drawings. Obtain the Engineers approval prior to use. Ensure the barrier wall shape, 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.)																																																											

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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.
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.

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SUBSECTION:	701.03.08 Testing of Pipe.						
REVISION:	Replace and rename the subsection with the following: 701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project. Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surfacing conflicts with the 30-day minimum, conduct the inspections prior to placement of the final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible. Notify the Engineer immediately if distresses or locations of improper installation are discovered. When camera testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114. Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation, sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and installation thresholds indicated in the table below, provide the Department with an evaluation of each location conducted by a Professional Engineer addressing the severity of the deflection, structural integrity, environmental conditions, design service life, and an evaluation of the factor of safety using Section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD Bridge Design Specifications. Based on the evaluation, the Department may allow the pipe to remain in place at a reduced unit price as shown in the table below. Provide 5 business days for the Department to review the evaluation. When the pipe shows deflection of 10 percent or greater, remove and replace the pipe. When the camera/video or laser inspection results are called into question, the Department may require direct measurements or mandrel testing. The Cabinet may elect to conduct Quality Assurance verifications of any pipe inspections.						
SUBSECTION:	701.04.07 Testing.						
REVISION:	Replace and rename the subsection with the following: 701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.						
SUBSECTION:	701.05 PAYMENT.						
REVISION:	Add the following pay item to the list of pay items: <table><tr><td><u>Code</u></td><td><u>Pay Item</u></td><td><u>Pay Unit</u></td></tr><tr><td>23131ER701</td><td>Pipeline Video Inspection</td><td>Linear Foot</td></tr></table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	23131ER701	Pipeline Video Inspection	Linear Foot
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>					
23131ER701	Pipeline Video Inspection	Linear Foot					

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SUBSECTION:	701.05 PAYMENT														
TABLE:	PIPE DEFLECTION DETERMINED BY CAMERA TESTING														
REVISION:	Replace this table with the following table and note:														
	<table><tr><th colspan="2">PIPE DEFLECTION</th></tr><tr><th>Amount of Deflection (%)</th><th>Payment</th></tr><tr><td>0.0 to 5.0</td><td>100% of the Unit Bid Price</td></tr><tr><td>5.1 to 9.9</td><td>50% of the Unit Bid Price ⁽¹⁾</td></tr><tr><td>10 or greater</td><td>Remove and Replace</td></tr></table>			PIPE DEFLECTION		Amount of Deflection (%)	Payment	0.0 to 5.0	100% of the Unit Bid Price	5.1 to 9.9	50% of the Unit Bid Price ⁽¹⁾	10 or greater	Remove and Replace		
PIPE DEFLECTION															
Amount of Deflection (%)	Payment														
0.0 to 5.0	100% of the Unit Bid Price														
5.1 to 9.9	50% of the Unit Bid Price ⁽¹⁾														
10 or greater	Remove and Replace														
	⁽¹⁾ Provide Structural Analysis as indicated above. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price.														
SUBSECTION:	701.05 PAYMENT														
TABLE:	PIPE DEFLECTION DETERMINED BY MANDREL TESTING														
REVISION:	Delete this table.														
SUBSECTION:	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:	713.03.03 Paint Application.														
REVISION:	Replace the second paragraph with the following table:														
	<table><tr><th>Material</th><th>Paint Application Rate</th><th>Glass Beads Application Rate</th></tr><tr><td>4 inch waterborne paint</td><td>Min. of 16.5 gallons/mile</td><td>Min. of 6 pounds/gallon</td></tr><tr><td>6 inch waterborne paint</td><td>Min. of 24.8 gallons/mile</td><td>Min. of 6 pounds/gallon</td></tr><tr><td>6 inch durable waterborne paint</td><td>Min. of 36 gallons/mile</td><td>Min. of 6 pounds/gallon</td></tr></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	Min. of 24.8 gallons/mile	Min. of 6 pounds/gallon	6 inch durable waterborne paint	Min. of 36 gallons/mile	Min. of 6 pounds/gallon
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	Min. of 24.8 gallons/mile	Min. of 6 pounds/gallon													
6 inch durable waterborne paint	Min. of 36 gallons/mile	Min. of 6 pounds/gallon													
SUBSECTION:	713.03.04 Marking Removal.														
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:														
	<table><tr><th>Code</th><th>Pay Item</th><th>Pay Unit</th></tr><tr><td>23159EN</td><td>Durable Waterborne Marking – 6 IN W</td><td>Linear Foot</td></tr><tr><td>23160EN</td><td>Durable Waterborne Marking – 6 IN Y</td><td>Linear Foot</td></tr></table>			Code	Pay Item	Pay Unit	23159EN	Durable Waterborne Marking – 6 IN W	Linear Foot	23160EN	Durable Waterborne Marking – 6 IN Y	Linear Foot			
Code	Pay Item	Pay Unit													
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.														

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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: 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: 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) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut all tape at pavement joints when applied to concrete surfaces.
SUBSECTION:	717.03.05 Proving Period.
PART:	A) Requirements.
REVISION:	Insert the following to this section: 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.
SUBSECTION:	717.03.06 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.

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SUBSECTION:	717.05 PAYMENT.		
REVISION:	Insert the following bid item codes:		
	<u>Code</u>	<u>Pay Unit</u>	<u>Pay Item</u>
	06563	Pave Marking – R/R X Bucks 16 IN	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		
	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 Foot
	23267ES717	Pave Mark TY 1 Tape-Bike	Each
SUBSECTION:	805.01 GENERAL.		
REVISION:	Replace the second paragraph with the following:		
	The Department's List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, and the Concrete Restriction List.		
SUBSECTION:	805.04 CONCRETE.		
REVISION:	Replace the "AASHTO T 160" reference in first sentence of the third paragraph with "KM 64-629"		

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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 ⁽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
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 ⁽¹⁾	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

⁽¹⁾ Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.

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

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

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.

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SECTION:

REVISION:

DIVISION 800 MATERIAL DETAILS

Add the following section in Division 800

SECTION 846 – DURABLE WATERBORNE PAINT

846.01 DESCRIPTION.

846.02 Approval.

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

PAINT COMPOSITION

Property and Test Method	Yellow	White
Daytime Color (CIELAB) Spectrophotometer using illuminant D65 at 45° illumination and 0° viewing with a 2° observer	L* 81.76 a* 19.79 b* 89.89 Maximum allowable variation 2.0ΔE*	L* 93.51 a* -1.01 b* 0.70 Maximum allowable variation 2.0ΔE*
Nighttime Color (CIELAB) Spectrophotometer using illuminant A at 45° illumination and 0° viewing with a 2° observer	L* 86.90 a* 24.80 b* 95.45 Maximum allowable variation 2.0ΔE*	L* 93.45 a* -0.79 b* 0.43 Maximum allowable variation 2.0ΔE*
Heavy Metals Content	Comply with 40 CFR 261	Comply with 40 CFR 261
Titanium Dioxide ASTM D 4764	NA	10% by weight of pigment min.
VOC ASTM D 2369 and D 4017	1.25 lb/gal max.	1.25 lb/gal max.
Contrast Ratio (at 15 mils wft)	0.97	0.99

846.02.01 Manufacturers Certification.

846.03 ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION DURABLE WATERBORNE PAVEMENT STRIPING PAINT.

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	DURABLE WATERBORNE PAVEMENT STRIPING PAINT REDUCTION SCHEDULE					
	Non-conforming Property	Resin	Color	Contrast	TiO ₂	VOC Heavy Metals Content
	Reduction Rate	60%	10%	10%	10%	60% 60%