Illinois Department of Transportation

Memorandum

To: *

From: Rich Dotson RJA

Subject: **Special Provision Changes**

Date: May 3, 2013

The following special provisions have been revised for the August 2, 2013 and September 20, 2013 lettings. Please revise your special provision books as indicated.

Recurring Special Provisions

No changes.

Interim Special Provisions

ISP Number	Description
Alphabetic ISP Index (Revised)	Remove existing alphabetic index and insert revised index.
Numerical ISP Index (Revised)	Remove existing numeric index and insert revised index.

Interim Special Provisions

ISP Number	Description
109.01 (Revised)	**"Bituminous Materials Cost Adjustments (BDE)"** Revised for minor corrections.
406.06 (Revised)	**"Stone Matrix Asphalt (BDE)"** Revised for minor corrections.
406.05 (Deleted)	**"Safety Edge (BDE)"** Deleted because we are no longer using it.

District Special Provisions

District Number	Description
Alphabetic District Index (Revised)	Remove existing alphabetic index and insert revised index.
Numerical District Index (Revised)	Remove existing numeric index and insert revised index.
105.07a (Revised)	**"Status of Utilities/Utilities to be Adjusted"** Bolded the sentence saying, "This is for Local Roads Only."

District Special Provisions *(Continued)*

District Number	Description
250.06a (Revised)	**"Mowing"** Revised the article number that was incorrect.
250.06b (Revised)	**"Mowing"** Revised the article number that was incorrect.
424.02 (Revised)	**"Temporary Sidewalks"** Revised the Designer Note.
440.02 (Revised)	**"Longitudinal Joint Repair"** Minor Corrections.
602.00n (New)	**"Inlets, Type "*", With Special Frame and Grate"** New special to provide guidance on where to specify frame and grate type and set up pay item.
602.00o (New)	**"Manhole, Type A, of the Diameter Specified With Special Frame and Grate"** New special to provide guidance on where to specify frame and grate and to set up pay item.
780.01 (New)	**"Preformed Plastic Pavement Markings Type B-Inlaid"** New special from Operations for inlaid markings on HMA.
780.02 (New)	**"Grooving for Recessed Pavement Marking"** New special from Operations to go ith DSP 780.01.
780.07 (Delete)	**"Preformed Plastic Pavement Markings"** Delete.
1030.00 (Revised)	**"Hot-Mix Asphalt Quality Control for Performance (D4)"** Revised the Designer Note.
1030.01 (Revised)	**"Hot-Mix Asphalt Pay for Performance Using Percent Within Limits – Jobsite Sampling (D4)"** Revised Designer Note.

General Notes

Section 200 Index	Remove old Index and replace.
204.00 (Revised)	**"Environmental Reviews"** Revised a form name and added a form.

RJD:tdp:\mgr1\winword\progdev\special provisions\interim spec provs\specprovchngsmemo.doc

Attachment(s)

cc: * N. Jack, K. Emert, T. Phillips, Team 2, Team 3, Team 4, Team 6, Team 7, Team 8, Team 10, Team 11, Geometrics, Monmouth Campus, Local Roads (M. Augspurger), Local Roads (T. Sassine/K. Park)

Special Provisions Generated Checklist
Generated 05/03/2013 2:37 PM

August 2, 2013 and September 20, 2013 Lettings

SPECIAL PROVISIONS CHECK LIST
Generated - 5/3/13 2:37 PM

Designer: _____ **FAP:** _____
Contract No.: _____ **Section:** _____
County: _____

√	Dir	File Name	Spec Title	Spec Dates
	BRG\	APSLRP-1.DOC	Approach Slab Repair	E 3/13/97
	DES\	10500.doc	Construction Station Layout	E 7/30/10
	DES\	10506.doc	Prestage Site Construction Meetings	E 6/1/92
	DES\	10507.doc	Removal of Abandoned Underground Utilities	E 1/15/96 R 11/21/96
	DES\	10507a.doc	Status of Utilities/Utilities To Be Adjusted	E 1-21-05
	DES\	10700a.doc	Nationwide 404 Permit Requirements	E 1/22/01 R 8/2/02
	DES\	10731.doc	Location of Underground State Maintained Facilities	E 8/3/07 R 7/31/09
	DES\	10732.doc	Right-of-Way Restrictions	E 7/1/94
	DES\	10803.doc	Delayed Start of Multiple Contracts	E 11/1/01
	DES\	10805a.doc	Date of Completion	E 3/1/90 R 4/28/08
	DES\	10805b.doc	Date of Completion (Plus Working Days)	E 3/1/90 R 7/1/94
	DES\	20400.doc	Borrow and Furnished Excavation	E 3/7/00 R 4/27/07
	DES\	20500.doc	Geotechnical Reinforcement	E 6/10/93 R 1/1/07
	DES\	20504.doc	Embankment (Restrictions)	E 1/21/05 R 8/3/07
	DES\	20505.doc	Embankment	E 7/1/90 R 8/3/07
	DES\	20505a.doc	Embankment (Small Embankment)	E 10/1/99 R 1/1/07
	DES\	25000.doc	Seeding, Minor Areas	E 7/1/90 R 1/1/07
	DES\	25006a.doc	Mowing	E 12/11/01 R 1/1/12
	DES\	25006b.doc	Mowing	E 12/11/01 R 1/1/12
	DES\	25300.doc	Tree Whip Mixture	E 8/15/91 R 4/25/08
	DES\	25300b.doc	Seedling Mixture A	E 5/5/00 R 11/1/08
	DES\	28100.doc	Grout for Use With Riprap	E 7/30/10
	DES\	28104.doc	Stone Dumped Riprap*	E 4/15/91 R 1/1/07
	DES\	28106.doc	Stone Riprap	E 11/5/10
	DES\	28303.doc	Aggregate Ditch	E 4/15/91 R 10/15/01
	DES\	30101.doc	Proof Rolling	E 4/23/04 R 1/1/07
	DES\	30103.doc	Subgrade Treatment	E 7/1/90 R 4/28/08
	DES\	30200.doc	Soil Modification	E 7/1/90 R 7/30/10
	DES\	31100.doc	Rock Fill	E 10/15/95 R 4/26/13
	DES\	31101.doc	Subbase Granular Material	E 11/5/04
	DES\	35500d.doc	Temporary Pavement	E 10/1/95 R 4/23/10
	DES\	35600.doc	Temporary Base Course Widening ___"	E 4/26/13
	DES\	40600.doc	Clean Existing Pavement Edge Joint	E 1/3/00 R 1/1/07
	DES\	40601.doc	Anti-Strip Additive for Hot-Mix Asphalt	E 7/30/10
	DES\	40602.doc	Hot-Mix Asphalt - Prime Coat	E 4/29/11 R 4/26/13
	DES\	40604a.doc	Hot-Mix Asphalt Surface Course Surface Tests	E 11/1/03 R 1/1/07
	DES\	40613.doc	Payment for Use of Material Transfer Device	E 4/23/10
	DES\	40706.doc	Bituminous Prime Coat for Hot-Mix Asphalt	E 8/3/07 R 4/23/10

SPECIAL PROVISIONS CHECK LIST
Generated - 5/3/13 2:37 PM

Designer: _____ **FAP:** _____
Contract No.: _____ **Section:** _____
County: _____

			Pavement (Full-Depth)	
	DES\	40713.doc	Grooved-in Rumble Strip	E 11/16/07 R 7/30/10
	DES\	42020.doc	Railroad Approach Pavement	E 10/1/95 R 1/1/07
	DES\	42401.doc	Sidewalk Drains	E 3/1/91 R 1/1/07
	DES\	42402.doc	Temporary Sidewalks	E 3/1/91 R 2/1/96
	DES\	44000.doc	Partial Depth Patching	E 4/26/13
	DES\	44001.doc	Bridge Wearing Surface Removal	E 7/1/90 R 1/1/07
	DES\	44002.doc	Longitudinal Joint Repair	E 4/26/13
	DES\	44003.doc	Protection of Frames and Lids of Utility Structures	E 3/6/91 R 1/1/07
	DES\	44003a.doc	Hot-Mix Asphalt Surface Removal, **" (** mm)	E 3/1/93 R 7/31/09
	DES\	44003b.doc	Hot-Mix Asphalt Surface Removal, **" (** mm)	E 2/5/93 R 7/31/09
	DES\	44003c.doc	Center Joint Repair System	E 3/1/91 R 1/1/07
	DES\	44003d.doc	Pavement Drainage After Cold Milling	E 3/15/96 R 1/1/07
	DES\	44003e.doc	Pavement Patching with Hot-Mix Asphalt Surface Removal	E 3/1/97 R 1/1/07
	DES\	44003f.doc	Hot-Mix Asphalt Concrete Milling Material	E 11/1/03 R 8/3/07
	DES\	44200.doc	Class (*) Patches, Type (**),(***) "	E 1/1/99 R 11/1/07
	DES\	44300.doc	Reflective Crack Control Treatment	E 3/1/96 R 1/1/07
	DES\	45100.doc	Crack and Joint Sealing	E 6/15/97 R 1/1/07
	DES\	48205.doc	Hot-Mix Asphalt Shoulder Resurfacing Required to be Constructed Simultaneously with Mainline Paving	E 4/23/10
	DES\	48206.doc	Hot-Mix Asphalt Shoulder Resurfacing Constructed Simultaneously with Mainline Paving	E 1/22/01 R 1/1/07
	DES\	50103.doc	Concrete Headwall Removal	E 7/1/90
	DES\	50104.doc	Concrete Handrail Removal	E 7/1/90 R 1/1/07
	DES\	50300.doc	Bin-Type Retaining Wall	E 7/1/90 R 1/1/07
	DES\	50301.doc	Concrete Wearing Surface	E 7/1/90 R 1/1/07
	DES\	50302.doc	Surface Filler, Special (Gallon)	E 4/23/10
	DES\	50312.doc	Plug Existing Deck Drains	E 1/1/96 R 3/22/01
	DES\	50312a.doc	Floor Drain Extension	E 3/22/01
	DES\	50317.doc	Bridge Floor Finishing Machine	E 5/1/95 R 1/1/07
	DES\	50319.doc	Protective Coat, Special	E 4/23/10
	DES\	52100b.doc	Jack and Reposition Bearings	E 11/15/93 R 1/1/09
	DES\	52100c.doc	Jacking and Cribbing	E 1/1/94 R 1/1/07
	DES\	54200.doc	Seepage Collar	E 12/1/96
	DES\	54201.doc	Remove and Relay Pipe Culverts	E 7/1/90 R 1/1/07
	DES\	54204.doc	Pipe Culverts	E 7/1/90 R 1/1/07
	DES\	54204e.doc	Backfill - Pipe Culverts	E 10/15/95 R 1/1/07
	DES\	55000.doc	Storm Sewer, (Water Main Quality Pipe)	E 1/1/11 R 1/1/12
	DES\	55007.doc	Backfill, Building Removal	E 8/20/91 R 1/1/07

SPECIAL PROVISIONS CHECK LIST
Generated - 5/3/13 2:37 PM

Designer: _____ **FAP:** _____
Contract No.: _____ **Section:** _____
County: _____

	DES\	55200.doc	Steel Pipe Culvert, Special (Jacked) * inches (* mm)	E 7/1/94 R 1/1/07
	DES\	55201.doc	(*Storm Sewer/Pipe Culvert) Jacked in Place, ** inches (** mm)	E 7/1/94 R 1/1/07
	DES\	56100.doc	Steel Casings * Inches	E 7/1/90 R 1/1/13
	DES\	56101.doc	Steel Casings * Inches	E 7/1/90 R 1/1/13
	DES\	60101.doc	Pipe Underdrain	E 8/1/03
	DES\	60200a.doc	Inlets, Type G-1	E 10/1/95 R 1/1/07
	DES\	60200b.doc	Inlets, Type G-1, Special	E 10/1/95 R 1/1/07
	DES\	60200c.doc	Inlets, Type G-1, Double, Special	E 10/1/95 R 1/1/07
	DES\	60200d.doc	Inlet Manhole, Type G-1, 4' (1.2 m) Diameter	E 10/1/95 R 1/1/07
	DES\	60200e.doc	Inlet-Manhole, Type G-1, 4' (1.2 m) Diameter, Special	E 10/1/95 R 1/1/07
	DES\	60200f.doc	Inlet-Manhole, Type G-1, 5' (1.5 m) Diameter	E 10/1/95 R 1/1/07
	DES\	60200g.doc	Inlet-Manhole, Type G-1, 5' (1.5 m) Diameter, Special	E 10/1/95 R 1/1/07
	DES\	60200h.doc	Inlet-Manhole, Type G-1, 5' (1.5 m) Diameter, Double, Special	E 10/1/95 R 1/1/07
	DES\	60200i.doc	Inlet-Manhole, Type G-1, 8' (2.4 m) Diameter, Double, Special	E 10/1/95 R 1/1/07
	DES\	60200j.doc	Manhole to be Adjusted with New Type G-1 Frame and Grate	E 10/1/95 R 1/1/07
	DES\	60200k.doc	Temporary Inlet Drainage Treatment	E 1/1/97
	DES\	60200l.doc	Inlets, Type G-2	E 11/1/03 R 1/1/07
	DES\	60200m.doc	Inlets, Type G-1, Double	E 7/31/09
	DES\	60200n.doc	Inlets, Type G-1, Double	E 7/31/09
	DES\	60200o.doc	Inlets, Type G-1, Double	E 7/31/09
	DES\	60504.doc	Filling Existing Inlets	E 7/1/90 R 7/1/94
	DES\	60504a.doc	Filling Existing Culverts	E 10/15/95 R 1/1/07
	DES\	60504b.doc	Filling Existing Drainage Structures	E 10/15/95 R 1/1/07
	DES\	60608.doc	Island Pavement Constructed on Existing Pavement	E 1/1/97 R 1/1/07
	DES\	60612.doc	Drainage Holes	E 7/1/90 R 1/1/07
	DES\	63000.doc	Erosion Control Curb	E 4/1/91 R 1/1/07
	DES\	63001.doc	Guardrail Aggregate Erosion Control	E 2/1/93 R 1/1/07
	DES\	63008.doc	Steel Plate Beam Guardrail, Type A, 6.75 Foot Posts	E 7/31/09 R 4/27/12
	DES\	63104.doc	Traffic Barrier Terminals, Type 1, Special (Flared) or (Tangent)	E 7/31/09 R 4/26/13
	DES\	63107.doc	Traffic Barrier Terminals, Type 6	E 7/31/09
	DES\	63111c.doc	Traffic Barrier Terminals	E 2/1/96 R 11/5/04
	DES\	63114.doc	Traffic Barrier Terminals, Type 2	E 7/31/09
	DES\	63200.doc	Guard Post Removal	E 7/1/90 R 1/1/07
	DES\	63500.doc	Flexible Delineator Maintenance	E 5/5/92 R 1/1/94
	DES\	63501.doc	Flexible Delineators	E 10/1/95 R 1/1/07

SPECIAL PROVISIONS CHECK LIST
Generated - 5/3/13 2:37 PM

Designer: _____ **FAP:** _____
Contract No.: _____ **Section:** _____
County: _____

	DES\	66704.doc	Permanent Survey Marker, Type 1, Bridge Placement	E 7/1/90 R 3/11/11
	DES\	66802.doc	Permanent Survey Ties	E 4/1/91 R 4/27/12
	DES\	67005.doc	Equipment Vault for Nuclear Testing Equipment	E 6/24/93 R 7/1/94
	DES\	68000.doc	Railroad Track Removal	E 11/1/94 R 1/1/07
	DES\	68000a.doc	Railroad Ties Removal and Disposal	E 11/1/94 R 10/1/95
	DES\	68300.doc	Mortared Stone Wall	E 3/1/91 R 1/1/07
	DES\	70100.doc	Traffic Control Plan	E R
	DES\	70106.doc	Speeding Penalty	E 1/21/05
	DES\	70108b.doc	Traffic Control and Protection Standard 701331 (Special)	E 10/15/95 R 7/31/09
	DES\	70114.doc	Width Restriction Signing	E 11/1/07 R 1/1/12
	DES\	70120.doc	Traffic Control and Protection BLR 21 and BLR 21 (Special)	E 4/25/08
	DES\	70121.doc	Traffic Control and Protection BLR 22 and BLR 22 (Special)	E 4/25/08 R 7/31/09
	DES\	70122.doc	Traffic Control and Protection Standard 701606 (Special)	E 7/31/09
	DES\	70300.doc	Pavement Marking Removal/Work Zone Pavement Marking Removal	E 4/29/05
	DES\	70400.doc	Temporary Concrete Barrier, State Owned and Temporary Concrete Barrier Terminal Sections, State Owned	E 5/1/91 R 1/1/07
	DES\	70400a.doc	Temporary Concrete Barrier Reflectors	E 1/21/05
	DES\	78000.doc	Thermoplastic Pavement Marking Equipment	E 7/1/90 R 1/1/07
	DES\	78001.doc	Thermoplastic Pavement Marking Equipment	E 7/1/90 R 1/1/07
	DES\	78002.doc	Thermoplastic Pavement Marking Equipment	E 7/1/90 R 1/1/07
	DES\	78100.doc	Temporary Raised Reflective Pavement Marker	E 10/1/95 R 1/1/07
	DES\	81000.doc	Conduit, Pushed or Trenched	E 10/1/91 R 1/1/07
	DES\	81500.doc	Trench & Backfill, Special for Conduit Installation Beneath Bituminous Shoulders	E 3/21/94 R 1/1/07
	DES\	86300.doc	Terminal Facility	E 3/21/94 R 1/1/07
	DES\	87300.doc	Electric Cable in Conduit, Lead-In, No. 18	E 3/21/94 R 10/15/01
	DES\	88600.doc	Detector Loop, Special for Traffic Counters	E 3/21/94 R 1/1/07
	DES\	88600a.doc	Detector Loops, Type 1	E 3/1/96 R 8/3/07
	DES\	100400.doc	Aggregate Optimization of Class PV Mix for Slipform Paving	E 8/3/12
	DES\	100401.doc	Coarse Aggregate Fill	E 4/29/11
	DES\	100402.doc	Concrete Superstructure Aggregate Optimization	E 8/4/06 R 8/3/12
	DES\	100403b.doc	Coarse Aggregate for Bituminous Courses, Class A	E 6/29/93 R 1/1/07
	DES\	100404.doc	Aggregate Quality	E 7/1/90 R 4/26/13

SPECIAL PROVISIONS CHECK LIST
Generated - 5/3/13 2:37 PM

Designer: _____ **FAP:** _____
Contract No.: _____ **Section:** _____
County: _____

	DES\	103000.doc	Hot Mix Asphalt Quality Control for Performance (D4)	E 4/26/13
	DES\	103001.doc	Hot-Mix Asphalt - Pay for Performance Using Percent within Limits - Jobsite Sampling (D4)	E 4/26/13
	DES\	103004.doc	Hot-Mix Asphalt - Mixture Design Verification and Production	E 8/3/12 R 4/26/13
	DES\	103100.doc	Reclaimed Asphalt Pavement and Reclaimed Shingles (D4)	E 4/26/13
	DES\	110300.doc	PCC QC/QA Electronic Report Submittal	E 4/26/13
	DES\	110303.doc	PCC Automatic Batching Equipment	E 4/23/10

BDE Special Provisions Checklist

August 2, 2013 and September 20, 2013 Lettings

Note: Specials that go in every contract have already been marked with an "X" for you.

Designer: _____ **FAP:** _____

Contract No.: _____ **Section:** _____

Letting: _____ **County:** _____

BDE SPECIAL PROVISIONS
For the August 2 and September 20, 2013 Lettings

The following special provisions indicated by an "x" are applicable to this contract and will be included by the Project Development and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

File Name	#		Special Provision Title	Effective	Revised
80240	1		Above Grade Inlet Protection	July 1, 2009	Jan. 1, 2012
80099	2		Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2007
80274	3		Aggregate Subgrade Improvement	April 1, 2012	Jan. 1, 2013
80309	4		Anchor Bolts	Jan. 1, 2013	
80192	5		Automated Flagger Assistance Device	Jan. 1, 2008	
* 80173	6		Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2013
80241	7		Bridge Demolition Debris	July 1, 2009	
80276	8		Bridge Relief Joint Sealer	Jan. 1, 2012	Aug. 1, 2012
5026I	9		Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5048I	10		Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5049I	11		Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5053I	12		Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80292	13		Coarse Aggregate in Bridge Approach Slabs/Footings	April 1, 2012	April 1, 2013
80310	14		Coated Galvanized Steel Conduit	Jan. 1, 2013	
80198	15		Completion Date (via calendar days)	April 1, 2008	
80199	16		Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	17		Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	
80294	18		Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet	April 1, 2012	
80311	19		Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
80277	20		Concrete Mix Design – Department Provided	Jan. 1, 2012	
80261	21		Construction Air Quality – Diesel Retrofit	June 1, 2010	
80029	22		Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Aug. 2, 2011
80312	23		Drain Pipe, Tile, Drainage Mat, and Wall Drain	Jan. 1, 2013	
80313	24		Fabric Bearing Pads	Jan. 1, 2013	
80265	25		Friction Aggregate	Jan. 1, 2011	
80229	26		Fuel Cost Adjustment	April 1, 2009	July 1, 2009
80303	27		Granular Materials	Nov. 1, 2012	
80304	28		Grooving for Recessed Pavement Markings	Nov. 1, 2012	Jan. 1, 2013
80169	29		High Tension Cable Median Barrier	Jan. 1, 2007	Jan. 1, 2013
80246	30		Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2012
80315	31		Insertion Lining of Culverts	Jan. 1, 2013	
80320	32	X	Liquidated Damages	April 1, 2013	
80045	33		Material Transfer Device	June 15, 1999	Jan. 1, 2009
80297	34		Modified Urethane Pavement Marking	April 1, 2012	
80165	35		Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80253	36		Movable Traffic Barrier	Jan. 1, 2010	Jan. 1, 2013
80231	37		Pavement Marking Removal	April 1, 2009	
80298	38		Pavement Marking Tape Type IV	April 1, 2012	
80254	39		Pavement Patching	Jan. 1, 2010	
80321	40		Pavement Removal	April 1, 2013	
80022	41	X	Payments to Subcontractors	June 1, 2000	Jan. 1, 2006
80316	42		Placing and Consolidating Concrete	Jan. 1, 2013	

Note: Specials that go in every contract have already been marked with an "X" for you.

File Name	#		Special Provision Title	Effective	Revised
80278	43		Planting Woody Plants	Jan. 1, 2012	Aug. 1, 2012
80305	44		Polyurea Pavement Markings	Nov. 1, 2012	Jan. 1, 2013
80279	45		Portland Cement Concrete	Jan. 1, 2012	Jan. 1, 2013
80300	46		Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
80218	47		Preventive Maintenance – Bituminous Surface Treatment	Jan. 1, 2009	April 1, 2012
80219	48		Preventive Maintenance – Cape Seal	Jan. 1, 2009	April 1, 2012
80220	49		Preventive Maintenance – Micro-Surfacing	Jan. 1, 2009	April 1, 2012
80221	50		Preventive Maintenance – Slurry Seal	Jan. 1, 2009	April 1, 2012
80281	51		Quality Control/Quality Assurance of Concrete Mixtures	Jan. 1, 2012	Jan. 1, 2013
3426I	52		Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	53		Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	54		Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 1, 2013
80283	55		Removal and Disposal of Regulated Substances	Jan. 1, 2012	Nov. 2, 2012
80319	56		Removal and Disposal of Surplus Materials	Nov. 2, 2012	
80224	57		Restoring Bridge Approach Pavements Using High-Density Foam	Jan. 1, 2009	Jan. 1, 2012
80307	58		Seeding	Nov. 1, 2012	
80127	59		Steel Cost Adjustment	April 2, 2004	April 1, 2009
* 80255	60		Stone Matrix Asphalt	Jan. 1, 2010	Aug. 1, 2013
80143	61	X	Subcontractor Mobilization Payments	April 2, 2005	April 1, 2011
80317	62		Surface Testing of Hot-Mix Asphalt Overlays (NOTE: This special provision was previously named "*Surface Testing of Pavements*".)	Jan. 1, 2013	
80308	63		Synthetic Fibers in Concrete Gutter, Curb, Median and Paved Ditch	Nov. 1, 2012	
80286	64		Temporary Erosion and Sediment Control	Jan. 1, 2012	
80225	65		Temporary Raised Pavement Marker	Jan. 1, 2009	
80256	66		Temporary Water Filled Barrier	Jan. 1, 2010	Jan. 1, 2013
80301	67	X	Tracking the Use of Pesticides	Aug. 1, 2012	
80273	68		Traffic Control Deficiency Deduction	Aug. 1, 2011	
20338	69		Training Special Provisions	Oct. 15, 1975	
80318	70		Traversable Pipe Grate	Jan. 1, 2013	April 1, 2013
80270	71	X	Utility Coordination and Conflicts	April 1, 2011	Jan. 1, 2012
80288	72		Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2012
80302	73		Weekly DBE Trucking Reports	June 2, 2012	
80289	74	X	Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071	75		Working Days	Jan. 1, 2002	

The following special provisions have been deleted from use:

80271 Safety Edge

The following special provisions are either in the 2013 Standard Specifications, the 2013 Recurring Special Provisions, or the special provisions Portland Cement Concrete, QC/QA of Concrete Mixtures, or Placing and Consolidating Concrete:

File Name	Special Provision Title	New Location	Effective	Revised
80275	Agreement to Plan Quantity	Article 202.07	Jan. 1, 2012	
80291	Calcium Chloride Accelerator for Class PP-2 Concrete	Recurring CS #28	April 1, 2012	
80237	Construction Air Quality – Diesel Vehicle Emissions Control	Articles 105.03 and 107.41	April 1, 2009	Jan. 2, 2012
80239	Construction Air Quality – Idling Restrictions	Articles 105.03 and 107.41	April 1, 2009	
80177	Digital Terrain Modeling for Earthwork Calculations	Recurring CS #32	April 1, 2007	
80272	Drainage and Inlet Protection Under Traffic	Articles 603.02 and 603.07	April 1, 2011	Jan. 1, 2012
80228	Flagger at Side Roads and Entrances	Articles 701.13 and 701.20	April 1, 2009	
80109	Impact Attenuators	Section 643	Nov. 1, 2003	Jan. 1, 2012

Note: Specials that go in every contract have already been marked with an "X" for you.

File Name	Special Provision Title	New Location	Effective	Revised
80110	Impact Attenuators, Temporary	Section 706	Nov. 1, 2003	Jan. 1, 2012
80203	Metal Hardware Cast into Concrete	Articles 503.02, 504.02, and 1006.13	April 1, 2008	Jan. 1, 2012
80290	Payrolls and Payroll Records	Recurring CS #5	Jan. 2, 2012	
80299	Portland Cement Concrete Inlay or Overlay	Recurring CS #29	April 1, 2012	
80280	Portland Cement Concrete Sidewalk	Article 424.07	Jan. 1, 2012	
80152	Self-Consolidating Concrete for Cast-In-Place Construction	The following special provisions: Portland Cement Concrete, QC/QA of Concrete Mixtures and Placing and Consolidating Concrete	Nov. 1, 2005	April 1, 2012
80132	Self-Consolidating Concrete for Precast and Precast Prestressed Products	The following special provisions: Portland Cement Concrete, QC/QA of Concrete Mixtures and Placing and Consolidating Concrete	July 1, 2004	April 1, 2012
80284	Shoulder Rumble Strips	Article 642.05	Jan. 1, 2012	
80285	Sidewalk, Corner or Crosswalk Closure	Articles 701.03, 701.15, and 1106.02	Jan. 1, 2012	
80075	Surface Testing of Pavements (Section 406 overlay portion will remain a special provision and will now be called "Surface Testing of HMA Overlays".)	Articles 407.09, 407.12, 420.10, 420.20, and 1101.10	April 1, 2002	Jan. 1, 2007
80287	Type G Inlet Box	Article 610.09	Jan. 1, 2012	

The following special provisions require additional information from the designer. The additional information needs to be included in a separate document attached to this check sheet. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal-Case I
- Building Removal-Case II
- Building Removal-Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

Index for
Supplemental Specifications
and
Recurring Special Provisions

Designer: _____ **FAP:** _____

Contract No.: _____ **Section:** _____

Letting: _____ **County:** _____

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2013

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-12) (Revised 1-1-13)

SUPPLEMENTAL SPECIFICATIONS

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

BDE Special Provisions

Numeric Index

REVISED INDEX

NUMERIC DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Get a copy of the current check list from the Program Development Secretary, indicate which ISP's are to be included in your set of special provisions, fill in any blanks as indicated on the check list, and include with your set of special provisions to be sent to Springfield where they will be inserted.

Standard Spec. No.	PC No.	Item
100.00	10000	Errata for the 2012 Standard Specifications
105.04	10504	Traffic Control Deficiency Deduction
105.07	10507	Utility Coordination and Conflicts
107.01	10701	Construction Air Quality – Diesel Retrofit
107.11a	10711a	Railroad Protective Liability Insurance
107.11b	10711b	Railroad Protective Liability Insurance (5 and 10)
107.19a	10719a	Building Removal Case I
107.19b	10719b	Building Removal Case II
107.19c	10719c	Building Removal Case III
107.19d	10719d	Building Removal Case IV
107.23	10723	Tracking the Use of Pesticides
107.38	10738	Bridge Demolition Debris
108.05	10805	Working Days
108.05a	10805a	Completion Date (Via Calendar Days)
108.05b	10805b	Completion Date (Via Calendar Days) Plus Working Days
108.06	10806	Training Special Provision
108.06a	10806a	Disadvantaged Business Enterprise Participation
108.06b	10806b	Weekly DBE Trucking Reports
108.09	10809	Liquidated Damages

NUMERIC DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Standard Spec. No.	PC No.	Item
109.00a	10900a	Steel Cost Adjustment
109.01	10901	Bituminous Materials Cost Adjustments
109.03	10903	Fuel Cost Adjustment
109.07	10907	Payments to Subcontractors
202.03	20203	Removal and Disposal of Surplus Materials
250.07	25007	Seeding
253.00	25300	Planting Woody Plants
280.02	28002	Above Grade Inlet Protection
280.04	28004	Temporary Erosion and Sediment Control
303.00	30300	Aggregate Subgrade Improvement
312.26	31226	Portland Cement Concrete
400.01	40001	Preventive Maintenance – Cape Seal
400.02	40002	Preventive Maintenance – Micro-Surfacing
400.03	40003	Preventive Maintenance – Slurry Seal
400.04	40004	Preventive Maintenance – Bituminous Surface Treatment
406.00	40600	Warm Mix Asphalt
406.00f	40600f	Material Transfer Device
406.03	40603	Surface Testing of Hot-Mix Asphalt Overlays
406.06	40606	Stone Matrix Asphalt
406.07	40607	Hot-Mix Asphalt – Density Testing of Longitudinal Joints
420.16	42016	Restoring Bridge Approach Pavements Using High-Density Foam
440.00	44000	Pavement Removal

NUMERIC DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Standard Spec. No.	PC No.	Item
503.06	50306	Placing and Consolidating Concrete
503.19	50319	Bridge Relief Joint Sealer
504.00	50400	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet
504.04	50404	Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews >30 Degrees with Design Fills > 5 Feet
542.00	54200	Concrete End Sections for Pipe Culverts
542.01	54201	Traversable Pipe Grate
543.00	54300	Insertion Lining of Culverts
606.02	60602	Synthetic Fibers in Concrete Gutter, Curb, Median, and Paved Ditch
643.00	64300	High Tension Cable Median Barrier
669.01	69901	Removal and Disposal of Regulated Substances
671.00	67100	Subcontractor Mobilization Payments
701.00	70100	Automated Flagger Assistance Devices
701.17	70117	Pavement Patching
703.00	70300	Temporary Raised Pavement Marker
703.02	70302	Pavement Marking Tape Type IV
780.00	780.00	Wet Reflective Thermoplastic Pavement Marking
780.01	78001	Modified Urethane pavement Marking
780.02	78002	Preformed Plastic Pavement Marking Type D - Inlaid
780.03	780.03	Grooving for Recessed Pavement Markings
780.13	78013	Polyurea Pavement Markings
783.03	78303	Pavement Marking Removal
888.00	88800	Accessible Pedestrian Signals (APS)

NUMERIC DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Standard Spec. No.	PC No.	Item
1003.04	100304	Granular Materials
1004.01	100401	Friction Aggregate
1004.02	100402	Coarse Aggregate in Bridge Approach Slabs/Footings
1006.09	100609	Anchor Bolts
1008.27	100827	Moisture Cured Urethane Paint System
1020.05a	102005a	Concrete Mix Design – Department Provided
1020.16	102016	Quality Control/Quality Assurance of Concrete Mixtures
1031.00	103100	Reclaimed Asphalt Pavement and Reclaimed Asphalt Shingles
1040.03	104003	Drain Pipe, Tile, Drainage Mat, and Wall Drain
1082.01	108201	Fabric Bearing Pads
1088.01	108801	Coated Galvanized Steel Conduit
1106.02i	110602i	Movable Traffic Barrier
1106.02k	110602k	Temporary Water Filled Barrier

BDE Special Provisions

Alphabetic Index

REVISED INDEX

ALPHABETIC LIST OF DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Get a copy of the current check list from the Program Development Secretary, indicate which ISP's are to be included in your set of special provisions, fill in any blanks as indicated on the check list, and include with your set of special provisions to be sent to Springfield where they will be inserted.

Standard Spec. No.	PC No.	Item
280.02	28002	Above Grade Inlet Protection
888.00	88800	Accessible Pedestrian Signals (APS)
303.00	30300	Aggregate Subgrade Improvement
1006.09	100609	Anchor Bolts
701.00	70100	Automated Flagger Assistance Devices
109.01	10901	Bituminous Materials Cost Adjustment
107.38	10738	Bridge Demolition Debris
503.19	50319	Bridge Relief Joint Sealer
107.19a	10719a	Building Removal Case I
107.19b	10719b	Building Removal Case II
107.19c	10719c	Building Removal Case III
107.19d	10719d	Building Removal Case IV
1004.02	100402	Coarse Aggregate in Bridge Approach Slabs/Footings
1088.01	108801	Coated Galvanized Steel Conduit
108.05a	10805a	Completion Date (Via Calendar Days)
108.05b	10805b	Completion Date (Via Calendar Days) Plus working Days
504.00	50400	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet
504.04	50404	Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of Design Fill and Skews >30 Degrees with Design Fills > 5 Feet
542.00	54200	Concrete End Sections for Pipe Culverts
503.19	50319	Concrete Joint Sealer

REVISED INDEX

ALPHABETIC LIST OF DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Standard Spec. No.	PC No.	Item
1020.05a	102005a	Concrete Mix Design – Department Provided
107.01	10701	Construction Air Quality – Diesel Retrofit
108.06a	10806a	Disadvantaged Business Enterprise Participation
1040.03	104003	Drain Pipe, Tile, Drainage Mat, and Wall Drain
100.00	10000	Errata for the 2012 Standard Specifications
1082.01	108201	Fabric Bearing Pads
1004.01	100401	Friction Aggregate
109.03	10903	Fuel Cost Adjustment
1003.04	100304	Granular Materials
780.03	780.03	Grooving for Recessed Pavement Markings
643.00	64300	High Tension Cable Median Barrier
406.07	40607	Hot-Mix Asphalt-Density Testing of Longitudinal Joints
543.00	54300	Insertion Lining of Culverts
108.09	10809	Liquidated Damages
406.00f	40600f	Material Transfer Device
780.01	78001	Modified Urethane Pavement Marking
1008.27	100827	Moisture Cured Urethane Paint System
1106.02i	110602i	Movable Traffic Barrier
783.03	78303	Pavement Marking Removal
703.02	70302	Pavement Marking Tape Type IV
701.17	70117	Pavement Patching
440.00	44000	Pavement Removal
109.07	10907	Payments to Subcontractors

REVISED INDEX

ALPHABETIC LIST OF DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Standard Spec. No.	PC No.	Item
503.06	50306	Placing and Consolidating Concrete
253.00	25300	Planting Woody Plants
780.13	78013	Polyruea Pavement Markings
253.00	25300	Planting Woody Plants
312.26	31226	Portland Cement Concrete
780.00	78000	Preformed Plastic Pavement Marking Type D - Inlaid
400.04	40004	Preventive Maintenance - Bituminous Surface Treatment
400.01	40001	Preventive Maintenance – Cape Seal
400.02	40002	Preventive Maintenance – Micro-Surfacing
400.03	40003	Preventive Maintenance – Slurry Seal
1020.16	102016	Quality Control/Quality Assurance of Concrete Mixtures
107.11	10711a	Railroad Protective Liability Insurance
107.11	10711b	Railroad Protective Liability Insurance (5 and 10)
1031.00	103100	Reclaimed Asphalt Pavement and Reclaimed Asphalt Singles
669.01	66901	Removal and Disposal of Regulated Substances
202.03	20203	Removal and Disposal of Surplus Materials
420.16	42016	Restoring Bridge Approach Pavements Using High-Density Foam
250.07	25007	Seeding
109.00	10900a	Steel Cost Adjustment
406.06	40606	Stone Matrix Asphalt
671.00	67100	Subcontractor Mobilization Payments
406.03	40603	Surface Testing of Hot-Mix Asphalt Overlays

REVISED INDEX

ALPHABETIC LIST OF DESIGN INTERIM SPECIAL PROVISIONS (ISP's)

Standard Spec. No.	PC No.	Item
606.02	60602	Synthetic Fibers in Concrete Gutters, Curb, Median, and Paved Ditch
280.04	28004	Temporary Erosion and Sediment Control
703.00	70300	Temporary Raised Pavement Marker
1106.02k	110602k	Temporary Water Filled Barrier
107.23	10723	Tracking the Use of Pesticides
280.04	28004	Temporary Erosion and Sediment Control
105.04	10504	Traffic Control Deficiency Deduction
108.06	10806	Training Special Provision
542.01	54201	Traversable Pipe Grate
105.07	10507	Utility Coordination and Conflicts
406.00	40600	Warm Mix Asphalt
108.06b	10806b	Weekly DBE Trucking Reports (BDE)
780.00	78000	Wet Reflective Thermoplastic Pavement Marking
108.05	10805	Working Days

BDE Special Provisions

Designer Note: Insert into all contracts with greater than 1,200 tons (1,100 metric tons) of applicable bituminous items. These items include permanent and temporary HMA mixes, bituminous surface treatments (cover and seal coats), and pavement preservation type surface treatments. This does not apply to bituminous prime coats, tack coats, crack filling/sealing, or joint filling/sealing.

BITUMINOUS MATERIALS COST ADJUSTMENTS (BDE) (RETURN FORM WITH BID)

Effective: November 2, 2006
Revised: August 1, 2013

Description. Bituminous material cost adjustments will be made to provide additional compensation to the Contractor, or credit to the Department, for fluctuations in the cost of bituminous materials when optioned by the Contractor. The adjustments shall apply to permanent and temporary hot-mix asphalt (HMA) mixtures, bituminous surface treatments (cover and seal coats), and preventative maintenance type surface treatments. The adjustments shall not apply to bituminous prime coats, tack coats, crack filling/sealing, or joint filling/sealing.

The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments.

Method of Adjustment. Bituminous materials cost adjustments will be computed as follows.

$CA = (BPI_P - BPI_L) \times (\%AC_V / 100) \times Q$

Where: CA = Cost Adjustment, $.
BPI_P = Bituminous Price Index, as published by the Department for the month the work is performed, $/ton ($/metric ton).
BPI_L = Bituminous Price Index, as published by the Department for the month prior to the letting, $/ton ($/metric ton).
$\%AC_V$ = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the % AC_V will be determined from the adjusted job mix formula. For bituminous materials applied, a performance graded or cutback asphalt will be considered to be 100% AC_V and undiluted emulsified asphalt will be considered to be 65% AC_V.
Q = Authorized construction Quantity, tons (metric tons) (see below).

For HMA mixtures measured in square yards: Q, tons = A x D x (G_{mb} x 46.8) / 2000. For HMA mixtures measured in square meters: Q, metric tons = A x D x (G_{mb} x 1) / 1000. When computing adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different G_{mb} and % AC_V.

For bituminous materials measured in gallons: Q, tons = V x 8.33 lb/gal x SG / 2000
For bituminous materials measured in liters: Q, metric tons = V x 1.0 kg/L x SG / 1000

Where: A = Area of the HMA mixture, sq yd (sq m).
D = Depth of the HMA mixture, in. (mm).
G_{mb} = Average bulk specific gravity of the mixture, from the approved mix design.
V = Volume of the bituminous material, gal (L).
SG = Specific Gravity of bituminous material as shown on the bill of lading.

Basis of Payment. Bituminous materials cost adjustments may be positive or negative but will only be made when there is a difference between the BPI_L and BPI_P in excess of five percent, as calculated by:

Percent Difference = $\{(BPI_L - BPI_P) \div BPI_L\} \times 100$

Bituminous materials cost adjustments will be calculated for each calendar month in which applicable bituminous material is placed; and will be paid or deducted when all other contract requirements for the work placed during the month are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

Return With Bid

ILLINOIS DEPARTMENT OF TRANSPORTATION

OPTION FOR BITUMINOUS MATERIALS COST ADJUSTMENTS

The bidder shall submit this completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments. After award, this form, when submitted, shall become part of the contract.

Contract No.: _____

Company Name: _____

Contractor's Option:

Is your company opting to include this special provision as part of the contract?

Yes ☐ No ☐

Signature: _____ **Date:** _____

Revise Article 1004.03(c) of the Standard Specifications to read:

"(c) Gradation. The coarse aggregate gradations shall be as listed in the following table.

Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-25.0 IL-19.0 IL-12.5 IL-9.5	CA 7 1/ or CA 8 1/ CA 11 1/ CA 16 and/or CA 13 CA 16
HMA Low ESAL	IL-19.0L IL-9.5L	CA 11 1/ CA 16
HMA All Other	Stabilized Subbase or Shoulders	CA 6 2/, CA 10, or CA 12
SMA 3/	1/2 in. (12.5 mm) Binder & Surface	CA 13, CA 14, CA 16

1/ CA 16 or CA 13 may be blended with the gradations listed.

2/ CA 6 will not be permitted in the top lift of shoulders.

3/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein."

Add the following to Article 1004.03 of the Standard Specifications:

"(d) Flat and Elongated Particles. For SMA the coarse aggregate shall meet the criteria for Flat and Elongated Particles listed in Illinois Modified AASHTO M 325.

(e) Absorption. For SMA the coarse aggregate shall also have water absorption $\leq$ 2.5 percent."

Add the following to Article 1011.01 of the Standard Specifications:

"(c) Additional requirements for SMA. Mineral filler for use in SMA shall be free from organic impurities and have a Plasticity Index $\leq$ 4."

Revise Article 1030.02(g) of the Standard Specifications to read:

"(g) Performance Graded Asphalt Binder (Note 3) 1032"

Add the following to Article 1030.02 of the Standard Specifications:

"(h) Fibers (Note 4)"

Add the following notes to Article 1030.02 of the Standard Specifications:

" Note 3. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full depth asphalt pavement and a SBS PG76-22 when used as an overlay.

Note 4. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements."

Mix Design.

Add the following below the referenced AASHTO standards in Article 1030.04 of the Standard Specifications:

"The SMA mixture shall be designed according to the following additional Illinois Modified AASHTO references listed below, except as modified herein.

AASHTO M 325	Standard Specification for Designing Stone Matrix Asphalt (SMA)
AASHTO R 46	Standard Practice for Designing Stone Matrix Asphalt (SMA)
AASHTO T 305	Determination of Draindown Characteristics in Uncompacted Mixtures"

Revise Article 1030.04(a)(1) of the Standard Specifications to read:

"(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits."

"High ESAL, MIXTURE COMPOSITION (% PASSING) [1/]										
Sieve Size	IL-25.0 mm		IL-19.0 mm		IL-12.5 mm		IL-9.5 mm		SMA [4/]	
	min	max	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)		100								
1 in. (25 mm)	90	100		100						
3/4 in. (19 mm)		90	82	100		100				100
1/2 in. (12.5 mm)	45	75	50	85	90	100		100	90	99
3/8 in. (9.5 mm)						89	90	100	50	85
#4 (4.75 mm)	24	42 [2/]	24	50 [2/]	28	65	28	65	20	40
#8 (2.36 mm)	16	31	20	36	28	48 [3/]	28	48 [3/]	16	24 [5/]
#16 (1.18 mm)	10	22	10	25	10	32	10	32		
#50 (300 µm)	4	12	4	12	4	15	4	15		
#100 (150 µm)	3	9	3	9	3	10	3	10		
#200 (75 µm)	3.0	6.0	3.0	6.0	4.0	6.0	4.0	6.0	8.0	11.0 [6/]
Ratio Dust/Asphalt Binder		1.0		1.0		1.0		1.0		

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 40 percent passing the #4 (4.75 mm) sieve for binder courses with Ndesign $\geq$ 90.

3/ The mixture composition shall not exceed 40 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign $\geq$ 90.

4/ The maximum percent passing the 20 µm sieve shall be $\leq$3 percent.

5/ When establishing the Adjusted Job Mix Formula (AJMF) the #8 (2.36 mm) sieve shall not be adjusted above 24 percent.

6/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler."

Add the following to Article 1030.04(b) of the Standard Specifications:

"(5) SMA Mixtures.

ESAL's (million)	Ndesign	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
≤ 10	50[1/]	4.0	16.0	75 – 80
> 10	80[2/]	4.0	17.0	75 – 80

1/ Coarse aggregate shall be limestone, dolomite, crushed gravel, diabase, granite, quartzite, sandstone, or steel slag.

2/ Coarse aggregate shall be crushed gravel, diabase, granite, quartzite, sandstone, or steel slag."

Plant Requirements.

Add the following to Article 1102.01(a) of the Standard Specifications:

"(13) Requirements for SMA.

a. Mineral Filler. When producing SMA, the mineral filler system shall accurately proportion the large amounts of mineral filler required for the mixture. Alteration or adjustment of the current system may be required. Mineral filler shall not be stored in the same silo as collected dust.

Only dust collected during the production of SMA may be returned to the SMA mixture. Any additional minus No. 200 (0.075 mm) material needed to produce the SMA shall be mineral filler meeting the requirements stated herein. Mineral filler shall not be collected dust.

b. Stabilizing Additive. Adequate dry storage shall be provided for the stabilizing fiber additive. A separate feed system shall be provided to proportion the fiber into the mixture uniformly and in desired quantities. The feed system shall be interlocked with the aggregate feed or weigh system to maintain the correct proportions for all rates of production and batch sizes. The proportion of fibers shall be controlled at all times within ± ten percent of the amount of fibers required. The fiber system shall provide in-process monitoring consisting of either a digital display of output or a printout of the feed-rate, in pounds per minute. Flow indicators or sensing devices for the fiber system shall be provided and interlocked with plant controls so mix production shall be interrupted if fiber introduction fails, or if the output rate is not within the specified tolerances.

1. Batch Plant. Stabilizing additive shall be pneumatically added through a separate inlet directly into the weigh hopper above the pugmill. The addition of fiber shall be timed to occur during the hot aggregate charging of the hopper. Adequate mixing time will be required to ensure proper blending of the aggregate and fiber additive. Both the wet and dry mixing times shall each be increased a minimum of five seconds beyond the standard mixing time. The actual mixing time increase shall be determined by the Engineer based on individual plant characteristics. If concentrations of mastic (fiber, AC and fines) are visible behind the paver the batch size shall be reduced in ten percent increments until the problem is alleviated.

2. Drum Mix Plant. Stabilizing additive shall be introduced using specialized equipment to mix the asphalt cement with loose fiber at the time of introduction into the drum mixer. This equipment shall be approved by the Engineer. Care shall be taken to ensure the loose fiber does not become entrained in the exhaust system of the plant.

   A manufacturer's representative for the fiber and fiber equipment shall be present for the fiber system calibration and mixture startup and shall be available at all times during production and lay-down of the mix.

c. Hot-mix Storage. SMA mixtures containing steel slag coarse aggregate or coarse aggregate with absorption ≥ 2.0 percent shall have a combined silo storage time plus haul time not less than 1 1/2 hours.

d. Production Rate. The Bureau of Materials and Physical Research will establish the maximum production rate for SMA based items such as the plant's ability to (1) add mineral filler consistently within 0.3 percent of the target by total weight of mix and (2) thoroughly disperse the stabilizing additive."

QC/QA.

Revise Article 1030.05(d)(4) of the Standard Specifications to read:

"(4) Control Limits. Target values shall be determined by applying adjustment factors to the AJMF where applicable. The target values shall be plotted on the control charts within the following control limits.

CONTROL LIMITS							
Parameter	High ESAL Low ESAL		SMA		All Other	IL-4.75	
	Individual Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4	Individual Test	Individual Test	Moving Avg. of 4
% Passing: [1/]							
1/2 in. (12.5 mm)	± 6 %	± 4 %	± 6 %	± 4 %	± 15 %		
3/8 in. (9.5 mm)			± 4 %	± 3 %			
No. 4 (4.75 mm)	± 5 %	± 4 %	± 5 %	± 4 %	± 10 %		
No. 8 (2.36 mm)	± 5 %	± 3 %	± 4 %	± 2 %			
No. 16 (1.18 mm)						± 4 %	± 3 %
No. 30 (600 µm)	± 4 %	± 2.5 %	± 4 %	± 2.5 %			
Total Dust Content No. 200 (75 µm)	± 1.5 %	± 1.0 %			± 2.5 %	± 1.5 %	± 1.0 %
Asphalt Binder Content	± 0.3 %	± 0.2 %	± 0.2 %	± 0.1 %	± 0.5 %	± 0.3 %	± 0.2 %
Voids	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %	± 1.2 %	± 1.2 %	± 1.0 %
VMA	-0.7 % [2/]	-0.5 % [2/]	-0.7 % [2/]	-0.5 % [2/]		-0.7 % [2/]	-0.5 % [2/]

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement

DENSITY CONTROL LIMITS		
Mixture Composition	Parameter	Individual Test
IL-4.75	Ndesign = 50	93.0 – 97.4 % [1/]
IL-9.5, IL-12.5	Ndesign ≥ 90	92.0 – 96.0 %
IL-9.5,IL-9.5L, IL-12.5	Ndesign < 90	92.5 – 97.4 %
IL-19.0, IL-25.0	Ndesign ≥ 90	93.0 – 96.0 %
IL-19.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0 – 97.4 %
SMA	Ndesign = 50 & 80	93.5 – 97.4 %
All Other	Ndesign = 30	93.0 [2/] - 97.4 %

1/ Density shall be determined by cores or by correlated, approved thin lift nuclear gauge.

2/ 92.0 percent when placed as first lift on an unimproved subgrade."

Revise the table in Article 1030.05(d)(5) of the Standard Specifications to read:

"CONTROL CHART REQUIREMENTS	High ESAL, Low ESAL, SMA & IL-4.75	All Other
Gradation [1/]	% Passing Sieves: 1/2 in. (12.5 mm) [2/] No. 4 (4.75 mm) No. 8 (2.36 mm) No. 30 (600 µm)	% Passing Sieves: 1/2 in. (12.5 mm) No. 4 (4.75 mm)
Total Dust Content [1/]	No. 200 (75 µm)	No. 200 (75 µm)
	Asphalt Binder Content	Asphalt Binder Content
	Bulk Specific Gravity	Bulk Specific Gravity
	Maximum Specific Gravity of Mixture	Maximum Specific Gravity of Mixture
	Voids	Voids
	Density	Density
	VMA	

1/ Based on washed ignition oven.

2/ Does not apply to IL-4.75."

Replace the first and second paragraphs of Article 1030.06(a) of the Standard Specifications with the following:

"(a) High ESAL, Low ESAL, IL-4.75 and SMA Mixture. During the mixture start-up for High or Low ESAL mixture the Contractor shall follow the QC/QA document "Hot-Mix Asphalt QC/QA Start-Up Procedures". At the start of High or Low ESAL mixture production, QC/QA mixture start-up will be required for the following situations: at the beginning of production of a new mixture design, at the beginning of each production season, and at every plant utilized to produce mixtures, regardless of the mix.

For SMA, a preliminary test strip shall be constructed according to the document "Off-Site Preliminary Test Strip and Modified Start-Up Procedures" at an off-site location approved by the Engineer to determine mix properties, density and laydown characteristics. At the start of SMA production, a modified start-up shall be performed on the jobsite. The modified start-up shall not begin until the Engineer has reviewed, evaluated, and approved the mixture based on the results from the off-site preliminary test strip."

Revise the table in Article 1030.06(a) of the Standard Specifications to read:

"Parameter	Adjustment
1/2 in. (12.5 mm)	± 5.0 %
No. 4 (4.75 mm)	± 4.0 %
No. 8 (2.36 mm)	± 3.0 %
No. 30 (600 µm)	[1/]
No. 200 (75 µm)	[1/]

Asphalt Binder Content	± 0.3 % 2/

1/ In no case shall the target for the amount passing be greater than the JMF.

2/ For SMA, the asphalt binder content shall not be adjusted by more than 0.2 percent."

Transportation.

Add the following after the second paragraph of Article 1030.08 of the Standard Specifications:

"(d) The mixture being placed is SMA."

Construction Requirements.

Add the following to Article 406.06(b) of the Standard Specifications:

"(3) Special Conditions for SMA

a. SMA mixture shall be placed on a dry surface when the temperature of the roadbed is above 50 °F (10 °C).

b. SMA shall be placed at a minimum mixture temperature of 310 °F (154 °C) when using SBS PG76-28 and 300 °F (149 °C) when using SBS PG76-22. The mixture temperature shall be measured immediately behind the paver screed."

Revise the last sentence of the third paragraph of Article 406.06(e) of the Standard Specifications to read:

"In no case shall the speed of the paver exceed 50 ft (15 m) per minutes for High and Low ESAL mixes or 30 ft (9 m) per minute for SMA."

Revise Table 1 in Article 406.07(a) of the Standard Specifications to read:

"TABLE 1 - MINIMUM ROLLER REQUIREMENTS FOR HMA

	Breakdown Roller (one of the following)	Intermediate Roller	Final Roller (one or more of the following)	Density Requirement
Level Binder: (When the density requirements of Article 406.05(c) do not apply.)	P 3/	- -	V_S, P 3/, T_B, T_F, 3W	To the satisfaction of the Engineer.
Binder and Surface 1/ Level Binder 1/: (When the density requirements of Article 406.05(c) apply.)	V_D, P 3/, T_B, 3W	P 3/	V_S, T_B, T_F	As specified in Articles: 1030.05(d)(3), (d)(4), and (d)(7).

IL-4.75 and SMA[4/ 5/]	T_B	- -	T_F	
Bridge Decks [2/]	T_B	- -	T_F	As specified in Articles: 582.05 and 582.06.

1/ If the average delivery at the job site is 85 ton/hr (75 metric ton/hr) or less, any roller combination may be used provided it includes a steel wheeled roller and the required density and smoothness is obtained.

2/ One T_B may be used for both breakdown and final rolling on bridge decks 300 ft (90 m) or less in length, except when the air temperature is less than 60 °F (15 °C).

3/ A vibratory roller (V_D) may be used in lieu of the pneumatic-tired roller on mixtures containing polymer modified asphalt binder.

4/ Pneumatic-tired and vibratory rollers will not be allowed.

5/ The Contractor shall provide a minimum of two steel-wheeled tandem rollers (T_B) for breakdown. Both T_B and T_F rollers shall be a minimum of 280 lb/in. (49 N/mm). The T_B rollers shall be operated at a uniform speed not to exceed 3 mph (5 km/h), with the drive roll nearest the paver, and maintain an effective rolling distance of not more than 150 ft (45 m) behind the paver."

Prepaving Conference. A prepaving conference shall be held a minimum of one week prior to the start of mix production. Those in attendance shall include the QC Manager, Construction Supervising Field Engineer, Resident Engineer, Mixture Control Engineer, BMPR representative, fiber supplier representative, asphalt binder supplier representative, as well as plant, paver and roller operators.

Basis of Payment. This work will be measured and paid for according to Article 406.13 and 406.14 of the Standard Specifications at the contract unit price per metric ton (ton) for POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, of the N design specified; and POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the N design specified.

The preliminary test strip will be paid for at the contract unit price per each for PRELIMINARY TEST STRIP, which price shall include the 272 metric tons (300 tons) of mix as well as the appropriate testing, provided the bituminous mixture is placed within the JMF tolerances.

District Special Provisions

Numeric Index

SECTION 100

District Special Provisions

Standard Specifications	Item/Description	Doc. #
105.00	CONSTRUCTION STATION LAYOUT	10500
105.06	PRESTAGE SITE CONSTRUCTION MEETINGS	10506
105.07	REMOVAL OF ABANDONED UNDERGROUND UTILITIES	10507
105.07a	STATUS OF UTILITIES/UTILITIES TO BE ADJUSTED	10507a
107.00a	NATIONWIDE 404 PERMIT REQUIREMENTS	10700a
107.31	LOCATION OF UNDERGROUND STATE MAINTAINED FACILITIES	10731
107.32	RIGHT-OF-WAY RESTRICTIONS	10732
108.03	DELAYED START OF MULTIPLE CONTRACTS	10803
108.05a	DATE OF COMPLETION	10805a
108.05b	DATE OF COMPLETION (PLUS WORKING DAYS)	10805b

SECTION 200

District Special Provisions

Standard Specifications	Item/Description	Doc. #
204.00	BORROW AND FURNISHED EXCAVATION	20400
205.00	GEOTECHNICAL REINFORCEMENT	20500
205.05	EMBANKMENT	20505
205.04	EMBANKMENT (RESTRICTIONS)	20504
205.05a	EMBANKMENT (SMALL EMBANKMENTS)	20505a
250.00	SEEDING, MINOR AREAS	25000
250.06a	MOWING	25006a
250.06b	MOWING	250.06b
253.00	TREE WHIP MIXTURE	25300
253.00b	SEEDLING MIXTURE A	25300b
281.00	GROUT FOR USE WITH RIPRAP	28100
281.04	STONE DUMPED RIPRAP *	28104
281.06	STONE RIPRAP	28106
283.03	AGGREGATE DITCH	28303

SECTION 300

District Special Provisions

Standard Specifications	Item/Description	Doc. #
301.01	PROOF ROLLING	30101
301.03	SUBGRADE TREATMENT	30103
302.00	SOIL MODIFICATION	30200
311.00	ROCKFILL	31100
311.01	SUBBASE GRANULAR MATERIAL	31101
355.00	TEMPORARY PAVEMENT	35500
356.00	TEMPORARY BASE COURSE WIDENING	35600

SECTION 400

District Special Provisions

Standard Specifications	Item/Description	Doc. #
406.00	CLEAN EXISTING PAVEMENT EDGE JOINT	40600
406.01	ANTI-STRIP ADDITIVE FOR HOT-MIX ASPHALT	40601
406.04a	HOT-MIX ASPHALT SURFACE COURSE SURFACE TESTS	40604a
406.02	HOT-MIX ASPHALT – PRIME COAT	40602
406.13	PAYMNET FOR USE OF MATERIAL TRANSFER DEVICE	40613
407.06	BITUMINOUS PRIME COAT FOR HOT-MIX ASPHALT PAVEMENT (FULL DEPTH)	40706
407.13	GROOVED-IN RUMBLE STRIP	40713
420.20	RAILROAD APPROACH PAVEMENT	42020
424.01	SIDEWALK DRAINS	42401
424.02	TEMPORARY SIDEWALKS	42402
440.00	PARTIAL DEPTH PATCHING	44000
440.01	BRIDGE WEARING SURFACE REMOVAL	44001
440.02	LONGITUDINAL JOINT REPAIR	44002
440.03	PROTECTION OF FRAMES AND LIDS OF UTILITY STRUCTURES	44003
440.03c	CENTER JOINT REPAIR SYSTEM	44003c
440.03a	HOT-MIX ASPHALT SURFACE REMOVAL, **" (** MM)	44003a
440.03b	HOT-MIX ASPHALT SURFACE REMOVAL, **" (** MM)	44003b
440.03d	PAVEMENT DRAINAGE AFTER COLD MILLING	44003d
440.03e	PAVEMENT PATCHING WITH HOT-MIX ASPHALT SURFACE REMOVAL	44003e
440.03f	HOT-MIX ASPHALT CONCRETE MILLING MATERIAL	44003f
442.00	CLASS (*) PATCHES, TYPE (**), (***")	44200
443.00	REFLECTIVE CRACK CONTROL TREATMENT	44300
451.00	CRACK AND JOINT SEALING	45100
482.05	HOT-MIX ASPHALT SHOULDER RESURFACING REQUIRED TO BE CONSTUCTED SIMULTANEOUSLY WITH MAINLINE PAVING	48205
482.06	HOT-MIX ASPHALT SHOULDER RESURFACING CONSTRUCTED SIMULTANEOUSLY WITH MAINLINE PAVING	48206

SECTION 500

District Special Provisions

Standard Specifications	Item/Description	Doc. #
501.03	CONCRETE HEADWALL REMOVAL	50103
501.04	CONCRETE HANDRAIL REMOVAL	50104
503.00	BIN-TYPE RETAINING WALL	50300
503.01	CONCRETE WEARING SURFACE	50301
503.02	SURFACE FILLER, SPECIAL (GALLON)	50302
503.12a	FLOOR DRAIN EXTENSIONS	50312a
503.12	PLUG EXISTING DRAINS	50312
503.17	BRIDGE FLOOR FINISHING MACHINE	50317
503.19	PROTECTING COAT, SPECIAL	50319
521.00b	JACK AND REPOSITION BEARINGS	52100b
521.00c	JACKING AND CRIBBING	52100c
542.00	SEEPAGE COLLAR	54200
542.01	REMOVE AND RELAY PIPE CULVERTS	54201
542.04	PIPE CULVERTS	54204
542.04e	BACKFILL - PIPE CULVERTS	54204e
550.00	STORM SEWER (WATER MAIN QUALITY PIPE)	55000
550.07	BACKFILL, BUILDING REMOVAL	55007
552.00	STEEL PIPE CULVERT, SPECIAL (JACKED) *" (* MM)	55200
552.01	(*STORM SEWER/PIPE CULVERT) JACKED IN PLACE, *" (* MM)	55201
561.00	STEEL CASINGS (*") INCHES	56100
561.01	STEEL CASINGS (*") INCHES	56101

SECTION 600

District Special Provisions

Standard Specifications	Item/Description	Doc. #
601.01	PIPE UNDERDRAIN	60101
602.00d	INLET-MANHOLE, TYPE G-1, 4' (1.2 M) DIAMETER	60200d
602.00f	INLET-MANHOLE, TYPE G-1, 5' (1.5 M) DIAMETER	60200f
602.00h	INLET-MANHOLE, TYPE G-1, 5' (1.5 M) DIAMETER, DOUBLE, SPECIAL	60200h
602.00i	INLET-MANHOLE, TYPE G-1, 8' (2.4 M) DIAMETER, DOUBLE, SPECIAL	60200i
602.00e	INLET-MANHOLE, TYPE G-1, 4' (1.2 M) DIAMETER, SPECIAL	60200e
602.00g	INLET-MANHOLE, TYPE G-1, 5' (1.5 M) DIAMETER, SPECIAL	60200g
602.00a	INLETS, TYPE G-1	60200a
602.00c	INLETS, TYPE G-1, DOUBLE, SPECIAL	60200c
602.00b	INLETS, TYPE G-1, SPECIAL	60200b
602.00j	MANHOLE TO BE ADJUSTED WITH NEW TYPE G-1 FRAME AND GRATE	60200j
602.00k	TEMPORARY INLET DRAINAGE TREATMENT	60200k
602.00l	INLETS, TYPE G-2	60200l
602.00m	INLETS, TYPE G-1, DOUBLE	60200m
602.00n	INLETS, TYPE "*", WITH SPECIAL FRAME AND GRATE	60200n
602.00o	MANHOLE, TYPE A, OF THE DIAMETER SPECIFIED WITH SPECIAL FRAME AND GRATE	60200o
605.04a	FILLING EXISTING CULVERTS	60504a
605.04b	FILLING EXISTING DRAINAGE STRUCTURES	60504b
605.04	FILLING EXISTING INLETS	60504
606.08	ISLAND PAVEMENT CONSTRUCTED ON EXISTING PAVEMENT	60608
606.12	DRAINAGE HOLES	60612

SECTION 600

District Special Provisions

Standard Specifications	Item/Description	Doc. #
630.00	EROSION CONTROL CURB	63000
630.01	GUARDRAIL AGGREGATE EROSION CONTROL	63001
630.08	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6.75 FOOT POSTS	63008
631.04	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED) OR (TANGENT)	63104
631.07	TRAFFIC BARRIER TERMINALS, TYPE 6	63107
631.11c	TRAFFIC BARRIER TERMINALS	63111c
631.14	TRAFFIC BARRIER TERMINALS, TYPE 2	63114
632.00	GUARD POST REMOVAL	63200
635.00	FLEXIBLE DELINEATOR MAINTENANCE	63500
635.01	FLEXIBLE DELINEATORS	63501
667.04	PERMANENT SURVEY MARKER, TYPE I, BRIDGE PLACEMENT	66704
668.02	PERMANENT SURVEY TIES	66802
670.05	EQUIPMENT VAULT FOR NUCLEAR TESTING EQUIPMENT	67005
680.00a	RAILROAD TIES REMOVAL AND DISPOSAL	68000a
680.00	RAILROAD TRACK RAIL REMOVAL	68000
683.00	MORTARED STONE WALL	68300

SECTION 700

District Special Provisions

Standard Specifications	Item/Description	Doc. #
701.00	TRAFFIC CONTROL PLAN	70100
701.06	SPEEDING PENALTY	70106
701.08b	TRAFFIC CONTROL AND PROTECTION STANDARD 701331 (SPECIAL)	70108b
701.14	WIDTH RESTRICTION SIGNING	70114
701.20	TRAFFIC CONTROL AND PROTECTION STANDARD BLR 21 AND BLR 21 (SPECIAL)	70120
701.21	TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND BLR 22 (SPECIAL)	70121
701.22	TRAFFIC CONTROL AND PROTECTION STANDARD 701606 (SPECIAL)	70122
703.00	PAVEMENT MARKING REMOVAL/WORK ZONE PAVEMENT MARKING REMOVAL	70300
704.00a	TEMPORARY CONCRETE BARRIER REFLECTORS	70400a
704.00	TEMPORARY CONCRETE BARRIER, STATE OWNED AND TEMPORARY CONCRETE BARRIER TERMINAL SECTIONS, STATE OWNED	70400
780.00	THERMOPLASTIC PAVEMENT MARKING EQUIPMENT	78000
780.01	PREFORMED PLASTIC PAVEMENT MARKNIG, TYPE B-INLAID	78001
780.02	GROOVING FOR RECESSED PAVEMENT MARKING	78002
781.00	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	78100

SECTION 800

District Special Provisions

Standard Specifications	Item/Description	Doc. #
810.00	CONDUIT, PUSHED OR TRENCHED	81000
815.00	TRENCH & BACKFILL, SPECIAL FOR CONDUIT INSTALLATION BENEATH BITUMINOUS SHOULDERS	81500
863.00	TERMINAL FACILITY	86300
873.00	ELECTRIC CABLE CONDUIT NO. 18	87300
886.00	DETECTOR LOOP, SPECIAL FOR TRAFFIC COUNTERS	88600
886.00a	DETECTOR LOOPS, TYPE 1	88600a

SECTION 900

District Special Provisions

Standard Specifications	Item/Description	Doc. #

SECTION 1000

District Special Provisions

Standard Specifications	Item/Description	Doc. #
1004.00	AGGREGATE OPTIMIZATION OF CLASS PV MIX FOR SLIPFORM PAVING	100400
1004.01	COARSE AGGREGATE FILL	100401
1004.02	CONCRETE SUPERSTRUCTURE AGGREGATE OPTIMIZATION	100402
1004.03b	COARSE AGGREGATE FOR BITUMINOUS COURSES, CLASS A	d100403b
1004.04	AGGREGATE QUALITY	d100404
1030.00	HOT-MIX ASPHALT QUALITY CONTROL FOR PERFORMANCE (D4)	103000
1030.01	HOT-MIX ASPHALT – PAY FOR PERFORMANCE USING PERCENT WITHIN LIMITS – JOBSITE SAMPLING (D4)	103001
1030.04	HOT-MIX ASPHALT – MIXTURE DESIGN VERIFICATION AND PRODUCTION	103004
1031.00	RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D4)	103100
1103.00	PCC QC/QA ELECTRONIC REPORT SUBMITTAL	110300
1103.03	PCC AUTOMATIC BATCHING EQUIPMENT	110303

District Special Provisions

Alphabetic Index

ALPHABETIC INDEX OF DISTRICT SPECIAL PROVISIONS

ALPHABETIC INDEX OF DISTRICT SPECIAL PROVISIONS

Item/Description	Standard Specification	Filename
DELAYED START OF MULTIPLE CONTRACTS	108.03	10803
DETECTOR LOOP, SPECIAL FOR TRAFFIC COUNTERS	886.00	88600
DETECTOR LOOPS, TYPE 1	886.00a	88600a
DRAINAGE HOLES	606.12	60612
ELECTRIC CABLE CONDUIT, LEAD-IN, NO. 18	873.00	87300
EMBANKMENT	205.05	20505
EMBANKMENT (RESTRICTIONS)	205.04	205.04
EMBANKMENT (SMALL EMBANKMENTS)	205.05a	20505a
EQUIPMENT VAULT FOR NUCLEAR TESTING EQUIPMENT	670.05	67005
EROSION CONTROL CURB	630.00	63000
FILLING EXISTING CULVERTS	605.04a	60504a
FILLING EXISTING DRAINAGE STRUCTURES	605.04b	60504b
FILLING EXISTING INLETS	605.04d	60504d
FLEXIBLE DELINEATOR MAINTENANCE	635.00	63500
FLEXIBLE DELINEATORS	635.01	63501
FLOOR DRAIN EXTENSION	503.12a	50312a
GEOTECHNICAL REINFORCEMENT	205.00	20500
GROOVED-IN RUMBLE STRIP	407.13	40713
GROOVING FOR RECESSED PAVEMENT MARKING	780.02	78002
GROUT FOR USE WITH RIPRAP	281.00	28100
GUARD POST REMOVAL	632.00	63200
GUARDRAIL AGGREGATE EROSION CONTROL	630.01	63001
HOT-MIX ASPHALT CONCRETE MILLING MATERIAL	440.03f	44003f
HOT-MIX ASPHALT – MIXTURE DESIGN VERIFICATION AND PRODUCTION	1030.04	103004
HOT-MIX ASPHALT – PAY FOR PERFORMANCE USING PERCENT WITHIN LINMITS – JOBSITE SAMPLING (D4)	1030.01	103001

ALPHABETIC INDEX OF DISTRICT SPECIAL PROVISIONS

ALPHABETIC INDEX OF DISTRICT SPECIAL PROVISIONS

ALPHABETIC INDEX OF DISTRICT SPECIAL PROVISIONS

Item/Description	Standard Specification	Filename
RAILROAD TRACK RAIL REMOVAL	680.00	68000
RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D4)	1031.00	103100
RAILROAD TRACK RAIL REMOVAL	680.00	68000
REFLECTIVE CRACK CONTROL TREATMENT	443.00	44300
REMOVAL OF ABANDONED UNDERGROUND UTILITIES	105.07	10507
REMOVE AND RELAY PIPE CULVERTS	542.01	54201
RIGHT-OF-WAY RESTRICTIONS	107.32	10732
ROCKFILL	311.00	31100
RUMBLE STRIP	407.14	40714
SEEDING, MINOR AREAS	250.00	25000
SEEDLING MIXTURE A	253.00b	15300b
SEEPAGE COLLAR	542.00	54200
SIDEWALK DRAINS	424.01	42401
SOIL MODIFICATION	302.00	30200
SPEEDING PENALTY	701.06	70106
STATUS OF UTILITIES/UTILITIES TO BE ADJUSTED	105.07	10507
STEEL CASINGS (*") INCHES	561.00	56100
STEEL CASINGS (*") INCHES	561.01	56101
STEEL PIPE CULVERT, SPECIAL (JACKED) *" (* MM)	552.00	55200
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6.75 FOOT POSTS	630.08	63008
STONE DUMPED RIPRAP*	281.04	28104
STONE RIPRAP	281.06	28106
STORM SEWER/PIPE CULVERT) JACKED IN PLACE **" (** MM)	552.01	55201
STORM SEWER (WATER MAIN QUALITY PIPE)	550.00	55000
SUBBASE GRANULAR MATERIAL	311.01	31101

ALPHABETIC INDEX OF DISTRICT SPECIAL PROVISIONS

Item/Description	Standard Specification	Filename
SUBGRADE TREATMENT	301.03	30103
SURFACE FILLER, SPECIAL (GALLON)	503.02	50302
TEMPORARY BASE COURSE WIDENING	356.00	35600
TEMPORARY CONCRETE BARRIER REFLECTORS	704.00a	70400a
TEMPORARY CONCRETE BARRIER, STATE OWNED & TEMPORARY CONCRETE BARRIER TERMINAL SECTIONS, STATE OWNED	704.00d	70400d
TEMPORARY INLET DRAINAGE TREATMENT	602.00k	60200k
TEMPORARY PAVEMENT	355.00	35500
TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER, TYPE II	781.00	78100
TEMPORARY SIDEWALKS	424.02	42402
TERMINAL FACILITY	863.00	86300
THERMOPLASTIC PAVEMENT MARKING EQUIPMENT	780.00	78000
TRAFFIC BARRIER TERMINALS	631.11c	63111c
TRAFFIC BARRIER TERMINALS, TYPE 1, SPECIAL (FLAMED) OR (TANGENT)	631.04	631.04
TRAFFIC BARRIER TERMINALS, TYPE 2	631.14	63114
TRAFFIC BARRIER TERMINALS, TYPE 6	631.07	63107
TRAFFIC CONTROL AND PROTECTION STANDARD 701331 (SPECIAL)	701.08b	70108b
TRAFFIC CONTROL AND PROTECTION STANDARD BLR 21 AND BLR 21 (SPECIAL)	701.20	70120
TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND BLR 22 (SPECIAL)	701.21	701.21
TRAFFIC CONTROL AND PROTECTION STANDARD 701606 (SPECIAL)	701.22	70122
TRAFFIC CONTROL PLAN	701.00	70100
TREE WHIP MIXTURE	253.00	25300
TRENCH & BACKFILL, SPECIAL FOR CONDUIT INSTALLATION BENEATH BITUMINOUS SHOULDERS	815.00	81500

ALPHABETIC INDEX OF DISTRICT SPECIAL PROVISIONS

Item/Description	Standard Specification	Filename
WIDTH RESTRICTION SIGNING	701.14	70114

s:\mgr1\winword\progdev\special provisions\district spec provs\district spec prov alpha list.doc

District Special Provisions

Designer Note: **This special provision is for use on Local Roads projects only.** Projects prepared by Program Development shall continue to use the Status of Utilities supplied by the Utilities Section and placed in the front of the plans.

STATUS OF UTILITIES/UTILITIES TO BE ADJUSTED

Effective: January 21, 2005

The following utilities are located within the project limits. For relocations, the utility companies have provided the estimated dates.

Name, Contact, Address And Phone Number of Utility	Type	Location	Relocation Needed	Estimated Date Relocation Completed

The above represents the best information of the Department and is only included for the convenience of the bidder. The applicable provisions of Recurring Special Provisions LRS1, LRS6 and Articles 105.07, 107.20, 107.31 and 108.02 of the Standard Specifications for Road and Bridge Construction shall apply.

The estimated utility relocation dates should be part of the progress schedule submitted by the Contractor. If any utility adjustments or relocations have not been completed by the above dates specified and when required by the Contractor's operations after these dates, the Contractor should notify the Engineer in writing. A request for an extension of time will be considered to the extent the Contractor's critical path schedule is affected.

Designer Note: Include on all interstate or four-lane highway projects that have thirty (30) working days or more. Calculate quantities assuming one mowing per fifty (50) working days. Do not use on new construction since mowing would have to be done only in areas where vegetation has been established.

MOWING

Effective December 11, 2001 Revised August 2,2013

This work shall consist of mowing the entire median up to 60' (20m) in width and the roadway foreslopes of the outside lanes to the ditchline or for a width of 15' (4.572 meters) from the edge of pavement or paved shoulder, whichever is less. At intersecting roadways, the mowing shall extend to the proposed right of way for a distance of 150' (45 m) on either side of the intersection. The height of the mowing shall not be more than 6" (150 mm). Equipment used shall be capable of completely severing all growth at the cutting height and distributing it evenly over the mowed area. The Contractor will not be required to mow continuously wet ditches and drainage ways, slopes greater than 1:3 (V:H), or areas which may be designated by the Engineer as not mowable. Mowing shall be done within the project limits during the construction of the project as directed by the Engineer and prior to the final inspection of the project. Any subsequent mowing required to disperse mowed material shall be considered as included in the cost of the mowing. Debris encountered during mowing, which interferes with the mowing operation or is visible from the roadway shall be removed and disposed of according to Article 202.03.

Method of Measurement: Mowing will be measured for payment in acres of surface area mowed.

Basis of Payment: This work will be paid for at the contract unit price per acre for MOWING.

Designer Note: Include on all rural two lane highway projects that have thirty (30) working days or more. Calculate quantities assuming one mowing per fifty (50) working days. Generally not appropriate for use on 3R or ditch grading projects – vegetation is not established enough to require mowing of the entire project limits. Mowing will generally still be needed on these projects, but should be paid for on an acre (hectare) basis.

MOWING

Effective December 11, 2001 Revised August 2, 2013

This work shall consist of mowing the roadway foreslopes to the ditchline or for a width of 15' (4.572 meters) from both edges of pavement or paved shoulder, whichever is less. At intersecting roadways, the mowing shall extend to the proposed right of way for a distance of 150' (45 m) on either side of the intersection. The height of the mowing shall not be more than 6" (150 mm). Equipment used shall be capable of completely severing all growth at the cutting height and distributing it evenly over the mowed area. The Contractor will not be required to mow continuously wet ditches and drainage ways, slopes greater than 1:3 (V:H), or areas which may be designated by the Engineer as not mowable. Mowing shall be done within the project limits during the construction of the project as directed by the Engineer and prior to the final inspection of the project. Any subsequent mowing required to disperse mowed material shall be considered as included in the cost of the mowing. Debris encountered during mowing, which interferes with the mowing operation or is visible from the roadway shall be removed and disposed of according to Article 202.03.

Method of Measurement: Mowing will be measured for payment in acres of surface area mowed.

Basis of Payment: This work will be paid for at the contract unit price per acre for MOWING.

Designer Note: For use on urban projects where sidewalk removal and replacement required and access must be maintained at all times. There are pay items for Temporary Sidewalk and Temporary Ramps if the designer know where and how much quantity will be needed. If using the pay items, provide locations and quantities in the plans and define the material to be used, but do not use this special provision.

TEMPORARY SIDEWALKS

Effective March 1, 1991 Revised February 1, 1996

Temporary sidewalks may be required at various locations as determined by the Engineer to provide access to and from businesses and to provide continuity for pedestrian traffic. The temporary sidewalks shall be constructed using material of the type and thickness as specified by the Engineer. The work, including the subsequent removal of the temporary sidewalk, will be paid for in accordance with Article 109.04 of the Standard Specifications.

Designer Note: To be used for milling deteriorated pavement longitudinal joints 3" inches deep, 2' feet wide and placement of Hot-Mix Asphalt (HMA) surface mix in trench.

When different depths and widths are needed, revise and use as a project specific special.

LONGITUDINAL JOINT REPAIR

Effective April 26, 2013 Revised August 2, 2013

This work shall include all labor, equipment, and material required to mill out an area along and either side of an existing pavement longitudinal joint and replacement with Hot-Mix Asphalt (HMA). The replacement HMA material shall be as specified in the HMA Mixtures Design table in the plans. The removal shall be done with a cold milling machine of sufficient size and weight to remove the pavement to a depth of three inches (3") and a width of two feet (2') in a single operation; skid steer mounted mills will not be allowed. After cold milling the existing joint, all loose material shall be removed with a mechanical sweeper or vacuum, then air blast cleaned to the satisfaction of the Engineer.

Prior to placement of the HMA material, the milled trench shall be primed in accordance with Article 406.05 of the Standard Specifications using a SS-1h or SS-1hP bituminous material. The prime shall be applied at a residual rate of 0.05 gal/sy by means of a mechanical distributor and shall be placed on all surfaces of the milled trench.

The HMA mixtures and density control limits shall conform to Article 1030 of the Standard Specifications. Placement shall be in a single lift by machine methods and shall match the profile of the existing pavement after final compaction. Compaction shall be accomplished using a vibratory roller that conforms to the applicable sections of Article 1101.01 of the Standard Specifications.

The Contractor shall fill all trenches with HMA in the same day they are milled. No open trench will be allowed to remain overnight.

This work will be paid for at the contract unit price per Foot for LONGITUDINAL JOINT REPAIR.

Designer Note: Designer to include the appropriate inlet type and either specify the casting to be installed within this special provision or provide a table in the plans. *Shall be replaced by "A" or "B".

INLETS, TYPE "*_____", WITH SPECIAL FRAME AND GRATE

Effective August 2, 2013

This work shall consist of furnishing equipment, labor, and materials for the construction of inlets in accordance with Section 602 of the Standard Specifications, Highway Standards 602301 or 602306, and the details in the plans.

Add, "INLETS, TYPE "*_____", WITH SPECIAL FRAME AND GRATE" to Article 602.16 of the Standard Specifications.

This work will be paid for at the contract unit price per Each for INLETS, TYPE A "*_____", WITH SPECIAL FRAME AND GRATE.

Designer Note: Designer to include the diameter and either specify the casting to be installed within this special provision or provide a table in the plans. *Shall be replaced by the diameter in feet.

MANHOLE, TYPE A, OF THE DIAMETER SPECIFIED WITH SPECIAL FRAME AND GRATE

Effective August 2, 2013

This work shall consist of furnishing all labor, equipment, and materials for the construction of MANHOLE, TYPE A, WITH SPECIAL FRAME AND GRATE of the diameter specified in accordance with Sections 602 of the Standard Specifications and the details in the plans.

Add "MANHOLE, TYPE A, WITH FRAME AND GRATE of the diameter specified to Article 602.16 of the Standard Specifications.

This work will be paid for at the contract unit price per Each for MANHOLE, TYPE A "*_____", WITH SPECIAL FRAME AND GRATE of the diameter specified.

Designer Note: Designer to include the appropriate inlet type and either specify the casting to be installed within this special provision or provide a table in the plans. *Shall be replaced by "A" or "B".

INLETS, TYPE "*_____", WITH SPECIAL FRAME AND GRATE

Effective August 2, 2013

This work shall consist of furnishing equipment, labor, and materials for the construction of inlets in accordance with Section 602 of the Standard Specifications, Highway Standards 602301 or 602306, and the details in the plans.

Add "INLETS, TYPE "*_____", WITH SPECIAL FRAME AND GRATE" to Article 602.16 of the Standard Specifications.

This work will be paid for at the contract unit price per Each for INLETS, TYPE A "*_____", WITH SPECIAL FRAME AND GRATE.

Designer Note: Use whenever installing Type B tape that should be inlaid in hot-mix-asphalt pavement. If it is a small quantity, it might not be cost effective especially if adjacent markings are in good condition and are not inlaid tape. Discuss use with the Operation's Striping Engineer.

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B – INLAID

Effective August 2, 2013

This work shall include all materials, labor, and equipment necessary to install the preformed plastic pavement marking as specified in Section 780 of the Standard Specifications, as shown in the plans, and as described herein. The Contractor shall have the option to inlay the pavement markings in accordance with the inlaid application procedure behind the paving operation or to install the pavement markings at a later date in accordance with the pavement grooving procedure. The Contractor shall supply the Engineer with a copy of the pavement marking material manufacturer's specifications for the pavement marking material and the application procedure selected prior to the operation.

Revise the first paragraph of Article 780.07(a) to read:

"Type B – Inlaid Application. On freshly placed HMA, the inlaid markings shall be applied before final compaction at the pavement temperature and embedment depth as recommended by the manufacturer and without deforming the markings. In the absence of embedment specifications from the manufacturer, no more than 45% of the thickness of the marking material shall be above the finished pavement elevation. If the Contractor is unable to achieve this depth of embedment, the markings shall be installed separately from the paving operation utilizing a pavement grooving procedure in accordance with the manufacturer's specifications and as specified herein. Markings not meeting embedment requirements shall be removed and then replaced using the pavement grooving procedure. No additional compensation will be allowed for the removal and replacement of markings not meeting embedment requirements."

Delete the last paragraph of Article 780.07(a).

Delete Article 780.07(b).

Pavement Grooving Procedure. If the pavement markings are installed separately from the paving operation, the pavement shall be grooved to create a recess in the surface course and prepared in accordance with the material manufacturer's requirements and as specified in the GROOVING FOR RECESSED PAVEMENT MARKING special provision.

Add the following paragraph after the first paragraph of Article 780.07 of the Standard Specifications.

"The markings shall be capable of being applied in a grooved slot on new and existing Portland cement concrete and HMA surfaces, by means of a pressure-sensitive, precoated adhesive or a liquid contact cement which shall be applied at the time of installation. A primer sealer shall be applied with a roller and shall cover and seal the entire bottom of the groove.

The primer sealer shall be recommended by the manufacturer of the pavement marking material and shall be compatible with the material being used. The Contractor shall install the markings in the groove as soon as possible after the primer sealer cures according to the manufacturer's recommendations. The markings placed in the groove shall be rolled or tamped into the groove with a roller or tamper cart cut to fit the groove and loaded with or weighing at least 200 lb (90kg). Vehicle tires shall not be used for rolling. The Contractor shall roll or tamp the material with a minimum of 6 passes to prevent easy removal or peeling."

Method of Measurement. This work will be measured for payment in accordance with Article 780.12.

Delete the last paragraph of Article 780.12.

Basis of Payment. Regardless of the procedure of installation, this work will be paid for at the contract unit price per foot (meter) of applied line width, as specified, for PREFORMED PLASTIC PAVEMENT MARKING, TYPE B – INLAID – LINE. If the pavement grooving procedure is used, any grooving of the pavement for the pavement markings will be paid for according to the GROOVING FOR RECESSED PAVEMENT MARKING special provision. If the inlaid application is used, no payment will be made for grooving.

Designer Note: Use the Grooving for Recessed Pavement Marking special provision when you are using the Preformed Plastic Pavement Marking, Type B – Inlaid District special provision.

GROOVING FOR RECESSED PAVEMENT MARKING

Effective August 2, 2013

Description. This work shall consist of grooving the pavement surface in accordance with the material manufacturer's requirements and as specified herein in preparation for the application of recessed pavement markings.

Equipment. Equipment shall be according to the following.

Pavement Marking Tape Installations: The grooving equipment shall have a free-floating saw blade cutting head equipped with gang-stacked diamond saw blades. The diamond saw blades shall be of uniform wear and shall produce a smooth textured surface. Any ridges in the groove shall have a maximum height of 15 mils (0.38 mm).

CONSTRUCTION REQUIREMENTS

General. Prior to the operation, the Contractor shall supply the Engineer with a copy of the pavement marking material manufacturer's recommendations for constructing a groove.

Pavement Grooving Methods. The grooves for recessed pavement markings shall be constructed using the following methods.

(a) Wet Cutting Head Operation. When water is required or used to cool the cutting head, the groove shall be flushed with high pressure water immediately following the cut to avoid build up and hardening of slurry in the groove. The pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.

(b) Dry Cutting Head Operation. When used on HMA pavements, the groove shall be vacuumed or cleaned by blasting with high-pressure air to remove loose aggregate, debris, and dust generated during the cutting operation. When used on PCC pavements, the groove shall be flushed with high pressure water or shot blasted to remove any PCC particles that may have become destabilized during the grooving process. If high pressure water is used, the pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.

Pavement Grooving. Grooving shall not cause ravels, aggregate fractures, spalling or disturbance of the joints to the underlying surface of the pavement. Grooves shall be cut into the pavement prior to the application of the pavement marking material. Grooves shall be cut such that the width is 1 in. (25 mm) greater than the width of the pavement marking line as specified on the plans. The length of the groove shall be cut such that the pavement marking

material can be applied meeting the installation requirements for the entire length of the marking material. Grooving between skip dashes will not be allowed. Grooves for letters, numbers and symbols shall be cut in a square or rectangular shape so that the entire marking will fit within the limits of the grooved area. The position of the edge of the grooves shall be a minimum of 4 in. (100 mm) from the edge of all longitudinal joints. The cutting head shall be operated at the appropriate speed in order to prevent undulation of the cutting head and grooving at an inconsistent depth. The depth of the groove shall be in accordance with the manufacturer's recommendations for the pavement marking material specified. In the absence of manufacturer recommendations, the entire thickness of the marking material shall be below the finished pavement elevation, but in no case shall the groove depth be greater than 200 mils.

At the start of grooving operations, a test section of 4 properly spaced skip dashes shall be installed and embedment measurements shall be made on each of the skip dashes. The individual depth measurements shall be within the allowable ranges according to this special provision. If it is determined the test section has not been grooved at the appropriate depth or texture or that deformation of the markings has occurred during the installation, adjustments shall be made to the cutting head or the installation procedure, and another test section of 4 skip dashes shall be installed and checked. This process shall continue until the test section meets the requirements of this special provision. Markings not meeting installation requirements shall be removed and then replaced using the pavement grooving procedure. No additional compensation will be allowed for the removal and replacement of markings not meeting installation requirements.

For new HMA pavements, grooves shall not be installed within 14 days of the placement of the final course of pavement.

Final Cleaning. Immediately prior to the application of the pavement marking material or primer sealer, the groove shall be cleaned with high-pressure air blasts.

Method of Measurement. This work will be measured for payment as follows.

(a) Contract Quantities. The requirements for the use of contract quantities shall be according to Article 202.07(a).

(b) Measured Quantities. Grooves will be measured for payment in place in feet (meters) for the length of grooving with pavement marking material applied. Double grooves will be measured as two separate grooves. Grooving in excess of the applied marking material, including any transition lengths, will not be measured for payment.

Grooving for letters, numbers and symbols will be measured for payment in place in square feet (square meters).

Basis of Payment. This work will be paid for at the contract unit price per foot (meter) for GROOVING FOR RECESSED PAVEMENT MARKING of the groove width specified and per square foot (square meter) for GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS.

Designer Note: Include this special for HMA overlay quantities less than 8,000 Tons after discussing with Steve Worsfold in Materials. It could be used on full-depth pavement projects with between 4,000 and 8,000 tons , but discuss with Steve Worsfold. Fill in the Mix Design Table.

HOT MIX ASPHALT QUALITY CONTROL FOR PERFORMANCE (D4)

Effective: April 26, 2013

Description. This special provision describes the procedures for production, placement and payment of hot-mix asphalt (HMA). This work shall be according to the Standard Specifications except as modified herein. This special provision shall apply to HMA mixtures as listed in the following table.

Mixture/Use:	
Location:	
Mixture/Use:	
Location:	
Mixture/Use:	
Location:	

Exceptions may be approved for small tonnage less than 800 (725 metric) tons and miscellaneous mixture applications as defined by the Engineer.

Delete Articles:	406.06(b)(1), 2nd Paragraph	(Temperature requirements)
	406.06 (e), 3rd Paragraph	(Pavers speed requirements)
	406.07	(Compaction)
	1030.05(a)(4, 5, 9,)	(QC/QA Documents)
	1030.05(d)(2)a.	(Plant Tests)
	1030.05(d)(2)b.	(Dust-to-Asphalt and Moisture Content)
	1030.05(d)(2)d.	(Small Tonnage)
	1030.05(d)(2)f.	(HMA Sampling)
	1030.05(d)(3)	(Required Field Tests)
	1030.05(d)(4)	(Control Limits)
	1030.05(d)(5)	(Control Charts)
	1030.05(d)(7)	(Corrective Action for Field Tests (Density))
	1030.05(e)	(Quality Assurance by the Engineer)
	1030.05(f)	(Acceptance by the Engineer)
	1030.06(a), 3rd paragraph	(Before start-up…)
	1030.06(a), 7th paragraph	(After an acceptable…)
	1030.06(a), 8th paragraph	(If a mixture…)
	1030.06(a), 9th paragraph	(A nuclear/core…)

Definitions:

(a) Quality Control (QC): All production and construction activities by the Contractor required to achieve the required level of quality.

(b) Quality Assurance (QA): All monitoring and testing activities by the Engineer required to assess product quality, level of payment, and acceptability of the product.

(c) Pay Parameters: Pay Parameters shall be field Voids in the Mineral Aggregate (VMA), voids, and density. Field VMA will be calculated using the combined aggregates bulk specific gravity (G_{sb}) from the mix design.

(d) Mixture Lot. A lot shall begin once an acceptable test strip has been completed and the AJMF has been determined. If the test strip is waived, a sublot shall begin with the start of production. A mixture lot shall consist of four sublots unless it is the last or only lot, in which case it may consist of as few as one sublot

(e) Mixture Sublot. A mixture sublot for field VMA, voids, and Dust/AC shall be 1000 tons (910 metric tons).

- If the remaining quantity is greater than 200 but less than 1000 tons, a sublot will consist of that amount.
- If the remaining quantity is less than or equal to 200 tons, the quantity shall be combined with the previous sublot.

(f) Density Interval. Density Intervals shall be every 0.2 mile (320 m) for lift thickness equal to or less than 3 in. (75 mm) and 0.1 mile (160 m) for lift thickness greater than 3 in. (75 mm).

(g) Density Sublot. A sublot for density shall be the average of five consecutive Density Intervals. If a Density Interval is less than 200 ft (60 m), it will be combined with the previous Density Intervals.

- If one or two Density Intervals remain outside a sublot, they shall be included in the previous sublot.

- If three or more Density Intervals remain, they shall be considered a sublot.

(h) Density Test: A density test consists of a core taken at a random longitudinal and transverse offset within each Density Interval. The HMA maximum theoretical gravity (G_{mm}) will be based on the running average of four Department test results. Initial G_{mm} will be based on the average of the first four test results. If less than four G_{mm} results are available, use an average of all available Department G_{mm} test results.

The random transverse offset excludes a distance from each outer edge equal to the lift thickness or a minimum of 4 in. (100 mm). If within one foot of an unconfined edge, 2.0 percent density will be added to the density of any core.

Quality Control (QC) by the Contractor:

The Contractor's QC plan shall include the schedule of testing for both pay parameters and non-pay parameters required to control the product such as asphalt binder content and mixture gradation. The minimum test frequency shall be according to the following table.

Minimum Quality Control Sampling and Testing Requirements

Quality Characteristic		Minimum Test Frequency
Mixture Gradation		1 per sublot
Asphalt Binder Content		
Dust/AC Ratio		
Field VMA		
Voids	G_{mb}	
	G_{mm}	

The Contractor's splits in conjunction with other quality control tests shall be used to control production.

The Contractor shall submit split jobsite mix sample test results to the Engineer within 48 hours of the time of sampling. All QC testing shall be performed in a qualified laboratory by personnel who have successfully completed the Department's HMA Level I training.

Quality Assurance (QA) by the Engineer:

Voids, field VMA and Dust/AC ratio: The Engineer will determine the random tonnage and the Contractor shall be responsible for obtaining the sample according to the "PFP Hot-Mix Asphalt Random Jobsite Sampling" procedure.

Density: The Engineer will identify the random locations for each density testing interval. The Contractor shall be responsible for obtaining the four inch cores within the same day and prior to opening to traffic unless otherwise approved by the Engineer according to the "PFP Random Density Procedure". The locations will be identified after final rolling and cores shall be obtained under the supervision of the Engineer. All core holes shall be filled immediately upon completion of coring. All water shall be removed from the core holes prior to filling. All core holes shall be filled with a rapid hardening mortar or concrete which shall be mixed in a separate container prior to placement in the hole. Any depressions in the surface of the filled core holes greater than 1/4 inch at the time of final inspection will require removal of the fill material to the depth of the lift thickness and replacement.

The Engineer will witness and secure all mixture and density samples. The Contractor shall transport the secured sample to a location designated by the Engineer.

The Engineer will test one or all of the randomly selected split samples from each lot for voids, field VMA and dust/AC ratio. The Engineer will test a minimum of one sample per project. The Engineer will test all of the pavement cores for density. All QA testing will be performed in a qualified laboratory by personnel who have successfully completed the Department's HMA Level I training. QA test results will be available to the Contractor within 10 working days from receipt of secured cores and split mixture samples.

The Engineer will maintain a complete record of all Department test results and copies will be provided to the Contractor with each set of sublot results. The records will contain, as a minimum, the originals of all Department test results and raw data, random numbers used and resulting calculations for sampling locations, and quality level analysis calculations.

If the QA results do not meet the 100% sublot pay factor limits or do not compare to QC results within the precision limits listed below, the Engineer will test all split mix samples for the lot.

Test Parameter	**Limits of Precision**
G_{mb}	0.030
G_{mm}	0.026

Dust/Asphalt AC Ratio	0.20
Field VMA	1.0 %

Acceptance by the Engineer: All tests shall be within the acceptable limits listed below:

Parameter		**Acceptable Limits**
Field VMA		-1.0 – +3.0%[1/]
Voids		2.0 – 6.0% [2/]
Density:	IL-9.5, IL-12.5, IL-19.0, IL-25.0, IL-4.75, IL-9.5FG[4/]	90.0 – 98.0%
	SMA	92.0 – 98.0%
Dust / AC Ratio		0.4 – 1.6[3/]

1/ Based on minimum required VMA from mix design
2/ The acceptable range for SMA mixtures shall be 2.0% - 5.0%
3/ Does not apply to SMA.
4/ Acceptable density limits for IL-9.5FG placed less than 1.25 in. shall be 89.0% - 98.0%

In addition, no visible pavement distresses shall be present such as, but not limited to, segregation, excessive coarse aggregate fracturing or flushing.

Basis of Payment: Payment will be based on the calculation of the Composite Pay Factor using QA results for each mix according to the "QCP Payment Calculation" document.

Dust / AC Ratio. A monetary deduction will be made using the pay adjustment table below for dust/AC ratios that deviate from the 0.6 to 1.2 range.

Dust / AC Pay Adjustment Table[1/]

Range	Deduct / sublot
$0.6 \leq X \leq 1.2$	$0
$0.5 \leq X < 0.6$ or $1.2 < X \leq 1.4$	$1000
$0.4 \leq X < 0.5$ or $1.4 < X \leq 1.6$	$3000
$X < 0.4$ or $X > 1.6$	Shall be removed and replaced

1/ Does not apply to SMA.

The QCP Pay Calculation (Manual of Test Procedures for Materials, Appendix E6) is available online at the IDOT website, Materials Section, BMPR Specifications.

Designer Note: Include in overlay and full-depth projects with more than 8,000 Tons after discussing with Steve Worsfold in Materials.

HOT MIX ASPHALT – PAY FOR PERFORMANCE USING PERCENT WITHIN LIMITS - JOBSITE SAMPLING (D4)

Effective: April 26, 2013

Description. This special provision describes the procedures used for production, placement and payment for hot-mix asphalt (HMA). This special provision shall apply to all pay items for High ESAL and Low ESAL HMA and SMA mixtures that individually have a minimum quantity of 8000 tons (7260 metric tons) and are placed at a minimum nominal thickness equal to or greater than three times the nominal maximum aggregate size. Mixture quantity may be less than 8,000 tons provided the sublot size is adjusted to achieve a minimum of 10 mixture tests. This special provision shall not apply to shoulders, temporary pavements and patching. This work shall be according to the Standard Specifications except as specified herein.

Delete Articles:	406.06(b)(1), 2nd paragraph	(Temperature requirements)
	406.06 (e), 3rd paragraph	(Pavers speed requirements)
	406.07	(Compaction)
	1030.04, last two sentences of first paragraph	(Mix design verification)
	1030.05(a)(4, 5, 7, 8, 9, & 10)	(QC/QA Documents)
	1030.05(d)(2)a.	(Plant Tests)
	1030.05(d)(2)b.	(Dust-to-Asphalt and Moisture Content)
	1030.05(d)(2)d.	(Small Tonnage)
	1030.05(d)(2)f.	(HMA Sampling)
	1030.05(d)(3)	(Required Field Tests)
	1030.05(d)(4)	(Control Limits)
	1030.05(d)(5)	(Control Charts)
	1030.05(d)(6)	(Corrective Action for Required Plant Tests)
	1030.05(d)(7)	(Corrective Action for Field Tests (Density))
	1030.05(e)	(Quality Assurance by the Engineer)
	1030.05(f)	(Acceptance by the Engineer)
	1030.06(a), 3rd paragraph	(Before start-up…)
	1030.06(a), 7th paragraph	(After an acceptable…)
	1030.06(a), 8th paragraph	(If a mixture…)
	1030.06(a), 9th paragraph	(A nuclear/core…)

Definitions:

(a) Quality Control (QC): All production and construction activities by the Contractor required to achieve the required level of quality.

(b) Quality Assurance (QA): All monitoring and testing activities by the Engineer required to assess product quality, level of payment, and acceptability of the product.

(c) Percent Within Limits (PWL): The percentage of material within the quality limits for a given quality characteristic.

(d) Quality Characteristic: The characteristics that are evaluated by the Department for payment using PWL. The quality characteristics for this project are field Voids in the

Mineral Aggregate (VMA), voids, and density. Field VMA will be calculated using the combined Aggregates Bulk Specific Gravity (G_{sb}) from the mix design

(e) Quality Level Analysis (QLA): QLA is a statistical procedure for estimating the amount of product within specification limits.

(f) Sublot: A sublot for field VMA, and voids, will be 1000 tons (910 metric tons), or adjusted to achieve a minimum of 10 tests. If a sublot consists of less than 200 tons (180 metric tons), it shall be combined with the previous sublot.

(g) Density Testing Interval: The interval for density testing will be 0.2 mile (320 m) for lift thickness equal to or less than 3 in. (75 mm) and 0.1 mile (160 m) for lift thickness greater than 3 in. (75 mm). If a density testing interval is less than 200 ft (60 m), it will be combined with the previous test interval.

(h) Lot: A lot consists of 10 sublots or 30 density intervals. If seven or less sublots or 19 or less density intervals remain at the end of production of a mixture, the test results for these sublots will be combined with the previous lot for evaluation of percent within limits and pay factors. Lots for mixture testing are independent of lots for density testing.

(i) Density Test: A density test consists of a core taken at a random longitudinal and transverse offset within each density testing interval. The HMA maximum theoretical gravity (G_{mm}) will be based on the running average of four including the current day of production. Initial G_{mm} will be based on the average of the first four test results. The random transverse offset excludes the outer 1.0 ft (300 mm) from an unconfined edge. For confined edges, the random transverse offset excludes a distance from the outer edge equal to the lift thickness or a minimum of 4 in. (100 mm).

(j) Unconfined Edge Density: The outer 1.0 foot of an unconfined edge will be excluded from the effective pavement width used for calculating random transverse density location. The unconfined edge density will be randomly selected within each ½ mile section for each unconfined edge. Longitudinal joint testing shall be located at a distance equal to the lift thickness or a minimum of 4.0 in. (100 mm), from each pavement edge. (i.e. for a 5 in. (125 mm) lift the near edge of the density gauge or core barrel shall be within 5.0 in. (125 mm) from the edge of pavement.)

Pre-production Meeting:

The Engineer will schedule a pre-production meeting a minimum of seven calendar days prior to the start of production. The HMA QC Plan, test frequencies, random test locations, and responsibilities of all parties involved in testing and determining the PWL will be addressed. Personnel attending the meetings will include the following:

(a) Resident Engineer

(b) District Mixture Control Representative

(c) QC Manager

(d) Contractor Paving Superintendent

(e) Any consultant involved in any part of the HMA sampling or testing on this project

Quality Control (QC) by the Contractor:

The Contractor's quality control plan shall include the schedule of testing for both quality characteristics and non-quality characteristics required to control the product such as binder content and mixture gradation. The schedule shall include sample location. The minimum test frequency shall not be less than outlined in the Minimum Quality Control Sampling and Testing Requirements table below.

Minimum Quality Control Sampling and Testing Requirements

Quality Characteristic	Minimum Test Frequency	Sampling Location
Mixture Gradation	1/day	per QC Plan
Binder Content		
G_{mm}		
G_{mb}		
Density	per QC plan	per QC Plan

The Contractor shall submit QC test results to the Engineer within 24 hours of the time of sampling.

Initial Production Testing: The Contractor shall split and test the first two samples with the Department for comparison purposes regardless of whether a test strip is used. The Contractor shall complete all tests and report all results to the Engineer within two working days of sampling. The Engineer will make Department test results of the initial production testing available to the Contractor within two working days from the receipt of the samples. PFP will begin after an acceptable test strip, if one is used.

Quality Assurance (QA) by the Engineer: The Engineer will test each sublot for field VMA, voids, dust/ac ratio and density interval for density to determine payment for each lot. A sublot shall begin once an acceptable test-strip has been completed and the AJMF has been determined. If the test strip is waived, a sublot shall begin with the start of production. All Department testing will be performed in a qualified laboratory by personnel who have successfully completed the Department HMA Level I training.

Voids, field VMA, and Dust/AC ratio: The mixture sublot size is 1000 tons (910 metric tons). The Engineer will determine the random tonnage and the Contractor shall be responsible for obtaining the sample according to the "PFP and QCP Hot-Mix Asphalt Random Jobsite Sampling" procedure. The Engineer will not disclose the random location of the mixture test until after the truck containing the random tonnage has been loaded and en-route to the project.

Density: The Engineer will identify the random locations for each density testing interval. The Contractor shall be responsible for obtaining the four inch cores within the same day and prior to opening to traffic unless otherwise approved by the Engineer according to the "PFP and QCP Random Density Procedure". The locations will not be disclosed to the Contractor until after final rolling. The cores shall be obtained under the supervision of the Engineer. All core holes shall be filled immediately upon completion of coring. All water shall be removed from the core holes prior to filling. All core holes shall be filled with a rapid hardening mortar or concrete which shall be mixed in a separate container prior to placement in the hole. Any depressions in the surface of the filled core holes greater than 1/4 inch at the time of final inspection will require removal of the fill material to the depth of the lift thickness and replacement.

Test Results: The Department test results for the first sublot, or density testing interval, of every lot will be available to the Contractor within three working days from the time the secured sample from the sublot or density testing interval has been delivered, by the Contractor, to a Department's Testing Facility or a location designated by the Engineer. Test results for the completed lot will be available to the Contractor within 10 working days from the time the last

sublot or density testing interval has been delivered to a Department testing facility or a location designated by the Engineer.

The Engineer will maintain a complete record of all Department test results. Copies will be furnished upon request. The records will contain, as a minimum, the originals of all Department test results and raw data, random numbers used and resulting calculations for sampling locations, and quality level analysis calculations.

Dispute Resolution: Dispute resolution testing will only be permitted when; 1) the Contractor submits their split sample test results prior to receiving Department split sample test results and 2) the difference between the Contractor and Department split test results exceed the precision limits listed below or are outside acceptable limits. For density disputes, the Contractor shall use the Department's running average for G_{mm} when determining compliance with the Limits of Precision.

Test Parameter	Limits of Precision
Voids	1.0 %
VMA	1.0%
Ratio - Dust / Asphalt Binder	0.2
Core Density	1.0 %

If dispute resolution is necessary, the Contractor shall submit a request in writing within four working days of receipt of the results of the quality index analysis for the lot. The Engineer will document receipt of the request. The Bureau of Materials and Physical Research (BMPR) laboratory will be used for dispute resolution testing.

Density cores for dispute resolution testing shall be taken at the same time as the random density core. The density core for dispute resolution testing shall be taken within 1 ft (300 mm) longitudinally of the random density core and at the same transverse offset.

If three or more consecutive mix sublots are contested, corresponding density results will be recalculated with the new G_{mm}.

All dispute resolution results will replace original quality assurance test results for pay factor recalculation. Test results from the dispute resolution testing will replace voids, VMA and Dust/AC results from the original quality assurance testing. The lot pay factor for the lot under dispute resolution will be recalculated. If the recalculated lot pay factor is less than or equal to the original lot pay factor, laboratory costs listed below will be borne by the Contractor. The effect on the lot pay factor will be determined for each individually disputed sample in the order of increasing sublot/density interval.

Test	Cost
Mix Testing	$1000.00 / sublot
Core Density	$300.00 / core

Acceptance by the Engineer: All tests shall be within the acceptable limits listed below:

Acceptable Limits

Parameter	Acceptable Range
Field VMA	-1.0 – +3.0%[1/]
Voids	2.0 – 6.0% [2/]
Density: IL-19.0, IL-25.0,IL-9.5, IL-12.5 IL-4.75, SMA	 90.0 – 98.0% 92.0 – 98.0%
Dust / AC Ratio	0.4 – 1.6[3/]

1/ Based on minimum required VMA from mix design
2/ The acceptable range for SMA mixtures shall be 2.0% - 5.0%
3/ Does not apply to SMA

In addition, the PWL for any quality characteristic shall be 50 percent or above for any lot. No visible pavement distress shall be present such as, but not limited to, segregation, excessive coarse aggregate fracturing or flushing.

Basis of Payment: Payment will be based on the calculation of the Composite Pay Factor for each mix according to the "PFP Quality Level Analysis" document. Payment for full depth pavement will be based on the calculation of the Full Depth Pay Factor according to the "PFP Quality Level Analysis" document.

Additional Pay Adjustments: In addition to the PWL on VMA, voids, and density, monetary deductions will be made using the pay adjustment tables below for dust/AC ratios and unconfined edge densities.

Dust / AC Pay Adjustment Table[1/]

Range	Deduct / sublot
$0.6 \le X \le 1.2$	$0
$0.5 \le X < 0.6$ or $1.2 < X \le 1.4$	$1000
$0.4 \le X < 0.5$ or $1.4 < X \le 1.6$	$3000
$X < 0.4$ or $X > 1.6$	Shall be removed and replaced

1/ Does not apply to SMA.

Unconfined Edge Density Adjustment Table

Density	Deduct / sublot
≥ 90%	$0
89.0% to 89.9%	$1000
88.0% to 88.9%	$3000
< 88.0%	Outer 1.0 foot will require remedial action acceptable to the Engineer

District General Notes

District General Notes

Numeric Index

Section 200

Effective June 1, 1999 Revised August 2, 2013

Designer Note: Use when borrow is required or where waste material will be generated from construction activities. Waste materials may include, but not limited to, the following removal items: pavement removal, pavement patching activities, and concrete removal items.

Bituminous waste materials that will be recycled, such as materials generated from cold milling operations, are exempt from this requirement.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- BDE Form 2290 (Waste/Use Area Rview)
- A location map showing the size limits and location of the use area
- Signed Property Owner Agreement form – D4 PI0100
- Color photographs depicting the use area
- Borrow Area Entry Agreement form – D4 PI0101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.