REVISIONS TO MATERIALS SAMPLING GUIDE January 1, 2014 Edition

Section 2, Asphaltic Materials				
	Page 2-1, Material 1) Asphaltic Oils			
	Field Personnel			
		Removed – two		
		Added – one		
		Removed – s		
	Page 2-2, M	aterial 2) Asphalt, Emulsified Anionic and Cationic		
		Field Personnel		
		Added – Field-		
		Added – Supplier-Diluted and Supplier-		
	Page 2-3, M	aterial 3) Performance Graded Binder		
		Field Personnel		
		Removed – parts		
		Added – final portion		
		Added – each		
		Added – type		
		Removed – A minimum of two two-quart samples per project.		
		Removed – submitted		
		Added – received		
		Added – from sampling		
		Removed – to		
		Added – in		
		Added – type		
		Added – of asphaltic concrete		
Section	n 3, Asphaltic	Concrete		
	Page 3-1, M	aterial 3) Asphaltic Concrete Types OGFCCRM, OGFC, GGCRM, LC, RLC, SLX		
		Material		
		Added – SLX		
Section	n 10, Compac	tion – Subgrade (Cohesive Soils)		
	Page 10-2, I	Aaterial 2) Fly Ash		

Field Personnel		
		Removed – Refer to the Approved Products List. Fly Ash is sampled at the fly ash mill and is
		accepted for use with a manufacturer's certification. A one-gallon sample is required when
		requested by the Materials and Research Division, the inspector questions the material or the
		material has been in storage for 90 days or more. Sample to be submitted to the central laboratory.
		Added – Project personnel will supply one one-pound sample for each 1,000 tons (minimum of
		three samples per project) of material used to perform the testing shown under the central
		laboratory column.
	Central Lab	
		Removed – One-gallon sample when submitted from fly ash plant or field.
		Added – One one-pound sample for each 1,000 tons (minimum of three samples per project) of
		material used for acceptance testing
Page 10-2,	Material 3) Su	ubgrade Soil and Fly Ash for Mix Design
	Material	
		Added – Subgrade Soil and Fly Ash for Mix Design
	Type of Tes	st
		Added – Quality
	Q.C. Sampl	ling and Testing by Contractor
		Added –
	Field Person	nnel
		Added – Project personnel will supply one 150-pound sample of subgrade soil and a 15-pound
		sample of fly ash to perform the testing shown under the central laboratory column.
		Samples required 21 days prior to construction.
	Branch Lab	
		Added –
	Central Lab	
		Added – One 150-pound sample of subgrade soil and one 15-pound sample of fly ash for
		verification testing and mix design.
	Location of	Additional Information
		Added –
Page 10-3,	Material 5) Su	ubgrade Soil and Hydrated Lime or Pebble Quicklime for Mix Design
	Field Person	nnel
		Removed – 60
		Added – 100

		Central Lab		
			Removed – 60	
			Added – 100	
Section	n 14, Portland	Cement/Int	erground-Blended Cement/Silica Fume	
	Page 14-1, I	Material 2) Ir	iterground/Blended Cement	
		Field Perso	nnel	
			Added – Refer to the Approved Products List. Portland cement can be used on the project when	
			accompanied with a manufacturer's certification.	
		Central Lab		
			Removed – cement mill or	
	Page 14-2, I	Material 3) P	ozzolans (Fly Ash or Calcined Natural Pozzolan)	
			Removed – Pozzolans (Fly Ash or Calcined Natural Pozzolan)	
	Page 14-2, I	Material 4) S	lag Cement	
			Removed – Slag Cement	
Sectior	n 15, Portland	Cement Co	ncrete for Pavement, Base Course, Pavement Patching	
	Page 15-1, I	-1, Material 1) Class E and F Aggregates		
		Material		
			Removed – Coarse Aggregates	
			Added – Class E and F Aggregates	
	Page 15-1, I	Material 2) C	lass A, B, and C Aggregates	
		Material		
			Removed – Fine Aggregates	
			Added – Class A, B and C Aggregates	
	Page 15-1, I	Material 3) C	lass R Aggregate	
		Material		
			Added – Class R Aggregate	
		Type of Tes	st	
			Added – Gradation & Quality	
		Q.C. Samp	ling and Testing by Contractor	
			Added – One gradation test for each 1,000 ton of aggregate or fraction thereof, for acceptance	
			either at the plant or on the project.	
			Minimum of one gradation test for each project.	

		Γ	The number of samples taken from the plant is determined by plant volume supplied to state and
		f	ederal projects, not per project.
		Field Personr	nel
		A	Added – Verification and quality testing sample size and frequency will be determined by mix
		C	design approval.
		Branch Lab	
		A	Added –
		Central Lab	
		A	Added – One contractor's split verification sample for each 3,000 ton or fraction thereof.
		Location of A	dditional Information
		A	Added – Section 27, Note 1, Note 4
Section	n 16, Portland	Cement Cond	crete for Structures, Culverts and Miscellaneous Construction
	Page 16-1,	Material 1) Clas	ss E and F Aggregates
		Material	
		F	Removed – Coarse Aggregates
		A	Added – Class E and F Aggregates
	Page 16-1,	Material 2) Cla	ss A, B, and C Aggregates
		Material	
		F	Removed – Fine Aggregates
		A	Added – Class A, B and C Aggregates
	Page 16-1,	Material 3) Clas	ss R Aggregate
		Material	
		A	Added – Class R Aggregate
		Type of Test	
		A	Added – Gradation & Quality
		Q.C. Samplin	g and Testing by Contractor
		A	Added – One gradation test for each 1,000 ton of aggregate or fraction thereof, for acceptance
		e	either at the plant or on the project.
		Ν	Vinimum of one gradation test for each project.
		ר	The number of samples taken from the plant is determined by plant volume supplied to state and
		f	ederal projects, not per project.

	Field Personnel		
			Added – Verification and quality testing sample size and frequency will be determined by mix
			design approval.
		Branch Lab	
			Added –
		Central Lab)
			Added – One contractor's split verification sample for each 3,000 ton or fraction thereof.
		Location of	Additional Information
			Added – Section 27, Note 1, Note 4
	•	•	·
Sectio	n 27, Notes		
	Page 27-2,	Note 2, Asph	naltic Oils, Performance Graded Binders, and Emulsified Asphalt
			Removed – the number of
			Added – tons or
			Removed – The suppliers who
			Added – Only certified suppliers
			Added – Certified suppliers
			Removed – his
			Added – the
			Removed – The certificate of compliance must meet the requirements of the Special Provisions as
			stated in the contract.
			Added – at 60°F
	Page 27-3,	Note 2, Asph	altic Oils, Performance Graded Binders, and Emulsified Asphalt
		•	Removed – b) Mixing and compaction temperatures for Performance Graded Binders
			Removed – for that grade.
			Removed – No penalties on Emulsified Asphalt can be assessed if more than 14 days have
			elapsed between sampling and completion of testing.
Policy	4, Acceptanc	e Policy for F	Portland Cement and Interground/Blended Cements
	Page 29-9,	Certified Mill	Analysis
			Added – following:
			Removed – location of the mill, brand name, type of cement, grinding period, and the results of the
			physical and chemical tests determined according to ASTM C-150 (Standard Specification for
			Portland Cement) or C-595 (Standard Specification for Blended Hydraulic Cements).
			Added –

-		
		Mill location,
		 Type of Portland and interground/blended cements,
		Grinding period,
		Associated manufacturer product name,
		 Portland cement shall conform to ASTM C 150,
		 Interground/blended cements shall conform to ASTM C 595.
	Page 29-9, Approved Pi	roducts List
		Added – APL
		Added – APL
		Removed – Approved Products List
		Removed – Each sample will be collected
		Added – Manufacturer shall
		Added – collect samples in separate grinds or blends
		Removed – 1, A. Any change in the source of the pozzolan material (coal fly ash and raw or
		calcined natural) or slag cement, ten consecutive passing mill samples will be required.
		Added – 2, B, i. Report the type of each supplemental cementitious materials (SCMs) and slag
		cement used for final product.
		Added – 2, B, ii. Report the total cementitious replacement per ASTM C 595.
		Added – 2, B, ii, 1. Refer to subsection 1004.02, para 2.
		Added – 2, B, iii. ASTM C 1567 at 28 days
		Added – 2, B, iii, 1. Refer to subsection 1004.04, para 3 of the Nebraska Standard Specifiation for
		Acceptance Requirements
		Removed – Interground/blended cement shall be tested according to the provisions of ASTM C
		Platte River Valley source approved by NDR M&R Division. The mortar bars for the ASTM C 1567
		shall not exceed 0 10% expansion at 28 days. To accommodate precision within multi-laboratory
		testing expansion up to and including 0.13% will be accented for use. If the expansion exceeds
		0.13% the material will be noncompliant. If tolerance problems are not corrected within 30 days
		following notification, the cement in question will be removed from the NDOR Approved Products
		Removed – With the approval of the Portland Cement Concrete Engineer, conditions for
		acceptance may also be met by furnishing test data from another state highway department
		provided the test were conducted within one year of application date.
		Added – 3. If there is a change to SCM source, the manufacturer shall notify the PCC Engineer of
		the change and follow para 1.

Page 29-10	Sampling Procedure at Mill
	Removed – Mill
	Added – at Mill
	Added – Portland
	Removed – s
Page 29-10	Sample Shipping
	Removed – Mill
	Removed – one of
	Removed – es
	Added – listed
	Removed – producer
	Added – manufacturer
	Removed –
	When using the U.S Post Service:
	Portland Cement Concrete Laboratory
	Nebraska Department of Roads
	Materials and Research Division
	P.O Box 94759
	Lincoln, Nebraska 68509-4759
	Removed – UPS
_	Added – Ground Shipping
 Page 29-10	Certificates of Compliance
	Removed – Brand
	Added – Manufacturer
	Added – Portland or interground/blended
	Added – Portland or interground/blended
	Added – Portland or interground/blended
Page 29-11	Quality Control of Portland Cement
	Removed and Interground/Blended
	Removed – s
	Removed – acceptance policy
	Added – quality control
	Removed – and interground/blended
	Removed Flowchart – Quality Control of Products on the Approved Product List
	Added Flowchart – Quality Control of Portland Cement Products on the Approved Products List

	Page 29-12, Quality Assurance of Interground/Blended Cement:		
			Removed Flowchart – Acceptance of Integround/Blended Cements
			Added Flowchart – Quality Control of Integround/Blended Cements on the Approved Products List
Policy	5, Acceptanc	e Policy for F	Pozzolans (Fly Ash or Calcined Natural Pozzolan)
	Page 29-13,	, Acceptance	Policy for Pozzolans (Fly Ash or Calcined Natural Pozzolan)
			Removed Policy 5
Policy	6, Acceptanc	e Policy for S	Slag Cement for Use in Concrete
	Page 29-14	Acceptance	Policy for Slag Cement for Use in Concrete
			Removed Policy 6
Policy	7, Policy for 0	Certification of	of Ready Mix Plants
	Page 29-15	, Policy for C	ertification of Ready Mix Plants
		ASTM C 94	k
			Added – (wet batch)
		Note 1, a.	
			Removed – upon
			Added – when
			Removed – 's
			Added – is
			Removed – relocation
			Added – relocated
		Note 1, c.	
			Removed – Trucks are to be certified every two years.
	Page 29-16	<u>, ASTM C 94</u>	Requirements for Central Mixer Batch Plants
		3.	
			Removed – project manager/QA
			Added – engineer
		7.	
			Removed – at the mixer
			Removed – the mix time is
			Added – batching has been
		8.	
			Removed – will be a need for

			Added – shall be
			Removed – one
			Removed – sample
			Added – concrete
		10.	
			Added – In accordance with ASTM C 94, Table A1.1., Requirements for Uniformity of Concrete,
			Removed – As
			Added – at
			Removed – mixer
			Added – plant
	Page 29-17 Standards.	, Table A1.1 Vol. 05.02)	Requirements for Uniformity of Concrete (According to ASTM C94- Page 56-Annual Book of ASTM
			Removed – Table A1.1 Requirements for Uniformity of Concrete (According to ASTM C 94 - Page 56 - Annual Book of ASTM Standards. Vol. 05.02)
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Policy Concre	9, Policy Cor ete Culvert ar	ncerning Con nd Sewer Pip	crete and Precast Pipe Plant Certification Including Testing, Inspection and Approval of Reinforced be and Concrete Flared-End Sections
	Page 29-19	, Policy Con	cerning Concrete and Precast Pipe Plant Certification Including Testing, Inspection and Approval of
	Reinforced	Concrete Cu	Ivert and Sewer Pipe and Concrete Flared-End Sections
			Added – and Precast
		General	
			Added – /precast
			Added – /precast
	Page 29-20	, Disqualifica	ation of a Concrete Pipe/Precast Manufacturer
			Added – /Precast
			Added – /precast
		Manufactu	rer Responsibilities:
			Added – ,
			Removed – and
			Added –, and precast units
			Added – /precast