

REVISIONS TO MATERIALS SAMPLING GUIDE January 1, 2011 Edition

Section 1, General Instructions and Definitions		
Page 1-2 – Instructions for Local Public Agency (LPA) Projects		
		<p>Removed – Consultant Inspection Instructions</p> <p>This Materials Sampling Guide defines all material sampling, testing, certifications, and other requirements that need to be included in the project documents by the inspecting agency, i.e. the Consultant.</p> <p>In the Sections containing the column “Verification Sampling and Testing by NDOR” the consultant needs to perform the requirements identified under the column of “Field Personnel” and a Private Testing Lab, a NDOR Branch Lab, or the NDOR Central Lab needs to perform the requirements identified under the columns “Branch Lab” and “Central Lab”. The consultant is responsible for the sampling of the materials and the delivery of the sample to the selected Lab for testing.</p> <p>Where the contractor, in the column “Q. C. Sampling and Testing by Contractor”, is required to submit samples to a lab for testing it is the responsibility of the inspecting consultant to identify the lab selected to do the testing.</p> <p>In Sections 15-25, under the column “Sample Required”, it states that the sample will be delivered to the Materials and Research Lab in Lincoln for testing. When a consultant is performing the inspection they will be responsible for the sampling and the delivery of the sample to a Private Testing Lab or the NDOR Central Lab for testing and the inspecting consulting firm.</p>
		<p>Added - Instructions for Local Public Agency (LPA) Projects</p> <p>The Materials Sampling Guide is written to define roles and responsibilities for field, branch lab and central lab personnel who sample or test on an NDOR Project. On LPA projects, the LPA/Consultant Construction Engineering (CE) agreement defines who will fill each of the roles required by the Sampling Guide. All LPA/Consultant CE agreements are saved in the project file under the Local Project Divisions Environment in FALCON.</p> <p>The LPA/Consultant CE agreement will define the following:</p> <ol style="list-style-type: none"> 1) Field Personnel –The certified consultant or LPA field inspector/s assigned

		<p>2) Central Lab – Dependent on the material and agreement, this will be conducted by the NDOR Central Lab, or a NDOR Qualified Consultant or LPA lab.</p> <p>3) Branch Lab – Dependent on the material and agreement, this will be conducted by the NDOR Central Lab or a NDOR Qualified Consultant or LPA lab.</p> <p>4) Sample Required – It is the responsibility of the inspecting agency to determine which laboratory (NDOR Central, NDOR Branch, or NDOR qualified consultant or LPA) will perform the testing on a specific material. This responsibility extends to obtaining and delivering the sample to the appropriate laboratory.</p> <p><u>Technician Requirements</u></p> <p>All consultant and LPA field inspection personnel and lab technicians must be certified to test and sample the materials for which they are responsible. The list of certified technicians is maintained in SiteManager.</p> <p><u>Qualified Laboratory Requirements</u></p> <p>All consultant and LPA laboratories must be pre-qualified by NDOR to conduct the testing in the CE agreement. A list of NDOR qualified laboratories and the tests they are qualified to perform is maintained on the NDOR Materials and Research website.</p> <p>NOTE: The NDOR Laboratory Qualification Manual is located on the Materials and Research Division’s website and defines requirements that must be met to become a NDOR Qualified Laboratory.</p>
Section 4, Asphaltic Concrete Materials		
	Page 4-1, Item #2 – Crushed Rock (Limestone)	
	Central Lab	
	Removed – 3000	
	Added – 5000	
	Page 4-1, Item #3 – Crushed Rock (Limestone Screenings, Man-Sand)	
	Field Personnel	
	Removed – 10	
	Added – 20	
	Central Lab	
	Removed – 10	

			Added – 20
	Page 4-1, Item #5 – Quartzite, Chat and Granite (Screenings, Man-Sand)		
	Field Personnel		
			Removed – 10
			Added – 20
	Central Lab		
			Removed – 10
			Added – 20
Section 6, Gravel and Crushed Rock for Surfacing			
	Page 6-1, Item #2 – Crushed Rock for Surfacing		
	Central Lab		
			Removed – Fort Calhoun
			Added – Martin Marietta
Section 7, Mineral Aggregate for Armor Coat			
	Page 7-1, Item #1 – Mineral Aggregate for Armor Coat (Gravel)		
	Material		
			Added – Gravel
	Page 7-1, Item #3 – Lightweight Aggregate		
			Added – Lightweight Aggregate category
	Material		
			Added – Lightweight Aggregate
	Test Type		
			Added – Quality and Gradation
	Field Personnel		
			Added – One sample for gradation test each 200 cubic yard or fraction thereof. Project personnel will provide the 10 and 60 pound samples needed to perform the testing shown under the Central Lab column. The samples shall be taken at the project.
	Central Lab		
			Added – One 60 pound sample for quality tests first 1,000 cubic yards. If so designated on the DR FORM 324 “Source of Aggregates to Be Used”.

			One 10 pound sample for gradation tests each 1000 cubic yard or fraction thereof. (Duplicate of sample tested in the field). NOTE: A Central Lab sample is required on all projects. If the DR Form 324 – “Source of Aggregates To Be Used” form designates that a 60 pound sample is not needed field personnel must still submit a 10 pound sample
		Location of Additional Information	
			Added – Section 27, Note 4
Section 13, Granular Base, Granular Fill, Granular Backfill, Sand Blanket and MSE Walls			
		Page 13-1, Item #2 – Mineral Aggregates (Commercial Production)	
		Field Personnel	
			Removed – pound
Section 14, Portland Cement/Blended Cement/Pozzolans/Ground Granulated Blast Furnace Slag/Silica Fume			
		Page 14-2, Item #3 – Pozzolans (Fly Ash or Calcined Natural Pozzolan)	
		Material	
			Removed – Fly Ash
			Added – Pozzolans (Fly Ash or Calcined Natural Pozzolan)
		Location of Additional Information	
			Removed – 7
			Added – 5
Section 15, Portland Cement Concrete for Pavement, Base Course, Pavement Patching			
		Page 15-2, Item #6 – Concrete Test Cylinders	
		Field Personnel	
			Removed – two 6x12
		Page 15-5, Item #20 - Concrete Chemical Admixtures	
			Removed – Air Entraining Agent and
			Added – Chemical
		Page 15-5, Item #21 - Calcium Chloride, Manufacturer Certified Tests Required	
			Removed – Yes
			Added – No
		Page 15-5, Item #21 - Calcium Chloride, Manufacturer Certification of Compliance Required	

			Removed – Yes
			Added – No
Section 16, Portland Cement Concrete for Structures, Culverts and Miscellaneous Construction			
	Page 16-3, Item #6 - Plastic Concrete		
	Location of Additional Information		
			Removed – Section 29, Policy 5
	Page 16-3, Item #7 - Lightweight Concrete		
			Removed – Section 29, Policy 5
	Page 16-4, Item #8, Concrete Test Cylinders		
	Field Personnel		
			Removed – three 6x12 or
			Removed – the first 100 cubic yards
			Added – any placement up to 100 yards
			Removed – three 6x12 or
	Branch Lab		
			Removed – Section 27, Note7 and Section 29, Policy 5
			Added - Cylinders will be tested in the Branch Lab or the Central Lab.
	Page 16-5, Item #12, Concrete Chemical Admixtures		
	Item or Group		
			Removed – Air Entraining Agent and
			Added – Chemical
Section 27, Notes			
	Page 27-1		
	Note 1 – Sampling and Testing Small Quantities of Noncritical Materials		
			Removed – 150
			Added – 200
	Page 27-4		
	Note 7 – Concrete Chemical Admixtures		
			Removed – Approved Air entraining agents and
			Added – Chemical
			Removed – Air entraining agent or
	Page 27-5		
	Note 8 – Liquid Curing Compound		

			Removed – day of testing
			Added – date of approval
	Page 27-10		
	Note 26 – Rock Riprap and Gabion Stone Fill		
			Removed – Ft Calhoun Stone Company
			Added – Martin Marietta Materials
			Removed – Rinker Materials
			Added – Martin Marietta Materials
			Removed – Aggregates
			Added – Materials
			Removed – Meridian Aggregates
			Added – Martin Marietta Materials
Section 28, Quality Assurance Program for Construction			
	Appendix F, FHWA Annual Report		
			Removed – Appendix F
			Added – Appendix F
Policy 7, Policy for Certification of Ready Mix Plants			
	Page 29-28		
	ASTM C 94		
			Removed – dry batch and
			Removed – pages 2-3 of this document
			Added – the following page
Policy 9, Policy Concerning Concrete Pipe Plant Certification Including Testing, Inspection and Approval of Reinforced Concrete Culvert and Sewer Pipe and Concrete Flared-End Sections			
	Page 29-43		
			Updated Policy and currently under review