

Soil, Soil Aggregate, and Aggregate Base and Subbase

Type of Construction	Material	Test	Frequency of Acceptance Samples and Tests for Job Control	Construction Stages for Obtaining Sample or Test	Sample Size	Procedures		Remarks	
						Sampling Method	Test Methods		
Soil, Soil Aggregate, and Aggregate Base and Subbase	Road-, Yard-, Or Plant-, mixed Subbase Without Chemical Additives	Gradation	Each 500 ft. (150 m) each layer, each roadway. For road- or yard-mixed bases containing 100% crushed commercial aggregate, sample each 1000 ft. (300 m) per layer per roadway;	Sample from roadway as soon as mixing process is completed	25 lbs. (12 kg)	ALDOT-105 ALDOT-210	Use AASHTO T-27 and T-11 for gradation of Crushed Aggregate Bases	Use Work Sheets Form BMT-17 & BMT-30, Report on Form BMT-5 and in Site Manager If Pre-tested, (ALDOT-249) must be mixed in a plant or pugmill, hauled directly to job, and placed with a mechanical Spreader.	
		Clay Content When Required		Plant mixed base course may be sampled at plant from feeder belt on loose volume basis equivalent to 1000 ft. (300 m)	For crushed Aggregate Bases see AASHTO T-2 Table 1 for sample size	ALDOT-105	AASHTO T-88	If used for driveways, crossovers, widening, tapers, shoulders, and around mailbox posts, testing is waived.	
		Atterberg Limits	For plant-mixed (see Remarks), Pre-tested, see ALDOT-249 for frequency.					AASHTO T-89 as modified by ALDOT-232 AASHTO T-90	
		Moisture Density Standard	Min. 1 each 10,000 Ft. (3000 m) each roadway, each layer, or each proportion or component source change	Sample from roadway as soon as mixing process is completed		50 lbs.(25 kg)	ALDOT-105	AASHTO T-180 or ALDOT-140	Use Work Sheet Form BMT-58, Report Form BMT-16 and in Site Manager
						or 100 lbs. (50 kg) for ALDOT-140		Or ALDOT-225 when authorized	Report Form BMT-112 and in Site Manager
In-place Density and Moisture Count	Min. 1 each 1000 ft. (300 m) each layer, each roadway	After compaction operations are completed			ALDOT-210	ALDOT-225 Or AASHTO T-310 and/or ALDOT-225 when authorized	Work Sheet Form BMT-112. Report Form BMT-57, BMT-1 and in Site Manager		

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Soil, Soil Aggregate, and Aggregate Base and Subbase (continued)	Road-, Yard-, Or Plant-mixed Subbase Without Chemical Additives (continued)	Thickness Measurements	One for each 250 ft. (75 m) alternating left and right of centerline	After compaction and surface smoothness requirements are met		ALDOT-105 ALDOT-210	ALDOT-105	Report Form BMT-16 and in Site Manager
	Soil, Soil Aggregate or Aggregate Base or Subbase Containing Cement or Lime	Plant or Equipment Check Tests	See Construction Manual for frequency, methods and reports					
		Gradation	Sample loose volume equivalent in yds ³ (m ³) to produce 500 ft. (150 m) full width per layer per roadway	For roadway or yard mixed operations, sample after all aggregate components have been spread and mixed and before addition of cement or lime.	25 lbs. (12 kg)	ALDOT-105 or ALDOT-210	Same as Road or Yard-Mixed Operations	Same as Road or Yard-Mixed Operations
		Clay Content When Required	When composed of 100 percent crushed aggregate					
		Atterberg Limits	sample loose volume equivalent yds ³ (m ³) to produce 1000 ft. (300 m) full width per layer per roadway	For plant-mixed operations sample aggregate components from belt before entering mixer				

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Soil, Soil Aggregate, and Aggregate Base and Subbase (continued)	Soil, Soil Aggregate or Aggregate Base or Subbase Containing Cement or Lime (continued)	Moisture Density Standards	Min. 1 each 1000 ft. (300 m) or each mixing section if road or yard-mixed per roadway per layer	Sample from roadway after mixing of all has been completed	ALDOT-223	ALDOT-210 ALDOT-105	ALDOT-223 or ALDOT-225 when authorized	Report Form BMT-112 and in Site Manager
		In-place Density & Moisture	Min. 1 each 1000 ft. (300 m) or mixing section if road or yard mixed	Same as bases or subbases without chemical additives			AASHTO T-310	
		Thickness Measurements	Same as bases or subbases without chemical additives					
	Cement		Pretested from an approved certified source	Prior to use, see ALDOT-195 and ALDOT-227				Submit sample to Central Lab., use Sample Information Card Form BMT-1 See List I-2 in the Qualified Products List
	Lime	Chemical	See Section 232					
	Water	Chemical	See Section 232					
				Shoulder layers constructed separately from travel ways-- apply same sampling and testing frequency, except alternate left and right shoulders				