TABLE 5.7 - MINIMUM REQUIRED SAMPLES AND TESTS - INDEPENDENT ASSURANCE (IA)

	NEV.		Г		Г
MATERIAL OR PRODUCT	TEST NO.	TEST	SAMPLE FREQUENCY	LOCATION OR TIME OF SAMPLING	REMARKS
Borrow / Embankment	101 or 108	Harv. Mini. or Proctor	One per 50,000 yd ³	Split samples with project	Compaction audits required
	104	Specific Gravity	One per 50,000 yd ³	Split samples with project	
	102 or 103	Density	One per 50,000 yd ³		Visual audit of testing procedures
Select Borrow	101 or 108	Harv. Mini. or Proctor	One per 50,000 yd ³	Split samples with project	Compaction audits required
	104	Specific Gravity	One per 50,000yd ³	Split samples with project	
	102 or 103	Density	One per 50,000 yd ³		Visual audit of testing procedures
	206	Sieve Analysis	One per 50,000 yd ³	Split samples with project	2-way splits required
Backfill	101 or 108	Harv. Mini. or Proctor	One per 10,000yd ³	Split samples with project	Compaction audits required
	104	Specific Gravity	One per 10,000yd ³	Split Samples with project	
	102 or 103	Density	One per 10,000yd ³		Visual audit of testing procedures
	206	Sieve Analysis	One per 10,000yd ³	Split samples with project	2-way splits required
Granular Backfill and MSE Backfill	101 or 108	Harv. Mini. or Proctor	One per 10,000 yd ³	Split samples with project	Compaction audits required
MSE BACKIIII	104	Specific Gravity	One per 10,000 yd ³	Split samples with project	
	102 or 103	Density	One per 10,000 yd ³		Visual audit of testing procedures
	206	Sieve Analysis	One per 10,000 yd ³	Split samples with project	2-way splits required
	210/211/212	Atterberg Limits	One per 10,000 yd ³	Split samples with project	2-way splits required
Slurry Backfill	206	Sieve Analysis	One per 10,000 yd ³	Split samples with project	2-way splits required
	431 or 432	Air Content by Volumetric or Pressure	One per 2,000 yd ³	Same location as project control samples	Side by side audit

TABLE 5.7 - MINIMUM REQUIRED SAMPLES AND TESTS - INDEPENDENT ASSURANCE (IA)

	NEV. TEST		SAMPLE	LOCATION OR	
MATERIAL OR PRODUCT	NO.	TEST	FREQUENCY	TIME OF SAMPLING	REMARKS
Types 1, 2 & 3 Base (For Type 3 See Special	101 or 108	Harv. Mini. or Proctor	One per 20,000 tons	Split samples with project	Compaction audits required
Provisions)	104	Specific Gravity	One per 20,000 tons	Split samples with project	
	102 or 103	Density	One per 20,000 tons		Visual audit of testing procedures
	206	Sieve Analysis	One per 20,000 tons		2-way splits required
	210/211/212	Atterberg Limits	One per 20,000 tons	Split samples with project	2-way splits required
	230	Fractured Face	One per 20,000 tons		2-way splits required
Aggregate for Portland Cement Treated Base	206	Sieve Analysis	One per 10,000 tons	Road mixed: From processed material, prior to adding cement Plantmixed: From conveyors, prior to adding cement	2 -way splits required
	227	Sand Equivalent	One per 10,000 tons		2-way splits required
Cement Treated Base (Roadmix or Plantmix	101 or 108	Harv. Mini or Proctor	One per 20,000 tons	Split samples with project	Compaction audits required
Method)	104	Specific Gravity	One per 20,000 tons	Split samples with project	
	102 or 103	Density	One per 20,000 tons		Visual audit of testing procedures
Pulverized Base and	101 or 108	Harv. Mini. or Proctor	One per 70,000 yd ²	Split samples with project	Compaction audits required
Surface (Roadbed Modification)	104	Specific Gravity	One per 70,000yd ²	Split samples with project	
	102 or 103	Density	One per 70,000 yd ²		Visual audit of testing procedures
	206	Sieve Analysis	One per 70,000 yd ²	Split samples with project	2-way splits required

TABLE 5.7 - MINIMUM REQUIRED SAMPLES AND TESTS - INDEPENDENT ASSURANCE (IA)

	NEV.				
MATERIAL OR PRODUCT	TEST NO.	TEST	SAMPLE FREQUENCY	LOCATION OR TIME OF SAMPLING	REMARKS
WATERIAL OR PRODUCT	NO.	IEST	FREQUENCT	TIME OF SAMPLING	REIVIARRS
Shouldering Material	206	Sieve Analysis	One per 20,000 tons	Split samples with project	2-way splits required
	210/211/212	Atterberg Limits	One per 20,000 tons	Split samples with project	2-way splits required
Aggregate for Plantmix Bituminous Base, Surface, Open-Graded and	210/211/212	Atterberg Limits	One per project per stockpile		2-way splits required P.I. tests to be performed prior to marination
Permeable Base	230	Fractured Face	One per project per stockpile		2-way splits required
	111	Absorption of Coarse Aggregate	One per project per stockpile		2-way splits required
Permeable Base	206	Sieve Analysis	One per 20,000 tons	Split samples with project	2-way split required
(Asphalt Treated)	761	Bitumen Ratio	One per 20,000 tons	Split samples with project	
Plantmix Bituminous Base and Surface	206	Sieve Analysis	One per 20,000 tons	Split samples with project	2-way split required. First audit and split to be conducted on the first day of operations
	324	Theoretical Maximum Density (Rice)	One per 20,000 tons		
	761	Bitumen Ratio	One per 20,000 tons		2-way splits required. First audit and split to be conducted on the first day of operations
	335 or 750	Density	One per 100,000 yd ²		Visual audit of testing procedure. First audit to be conducted on the first day of paving operations.
Plantmix Bituminous Open-Graded Surface	206	Sieve Analysis	One per 10,000 tons	Split samples with project	2-way split required. First audit and split to be conducted on the first day of operations
	761	Bitumen Ratio	One per 10,000 tons	Split samples with project	2-way split required. First audit and split to be conducted on the first day of operations

TABLE 5.7 - MINIMUM REQUIRED SAMPLES AND TESTS - INDEPENDENT ASSURANCE (IA)

MATERIAL OR PRODUCT	NEV. TEST NO.	TEST	SAMPLE FREQUENCY	LOCATION OR TIME OF SAMPLING	REMARKS
Cold Recycle	750	Density	One per 70,000 yd ²		Visual audit of testing procedures
	759	Field Viscosity	One per 20,000 tons		Visual audit of testing procedures
Surface Treatment	206	Sieve Analysis	One per 20,000 tons	Split samples with project	2-way splits required
Screenings (Chips)	228 (CA T227)	Cleanness Value	One per 20,000 tons	Split samples with project	2-way splits required
	230	Fractured Face	One per 20,000 tons	Split samples with project	2-way splits required
	759	Field Viscosity	One per 20,000 tons		Visual audit of testing procedures
Micro-Surfacing	206	Sieve Analysis	One per 20,000 tons	Split sample with project	2-way splits required
	210/211/212	Atterberg Limits	One per 20,000 tons	Split sample with project	2-way splits required
	227	Sand Equivalent	One per 20,000 tons	Split sample with project	2-way splits required
	230	Fractured Face	One per 20,000 tons	Split sample with project	2-way splits required
Concrete Aggregates	206	Sieve Analysis	Pavement: One per 70,000 yd² Structure: One per 3,000 yd³	Split samples with project	2-way split required
	227	Sand Equivalent	Pavement: One per 70,000 yd ² Structure: One per 3,000 yd ³	Split samples with project	2-way split required
	228 (CA T227)	Cleanness Value	Pavement: One per 70,000 yd ² Structure: One per 3,000 yd ³	Split samples with project	2-way split required
Portland Cement Concrete for Structures	431 or 432	Air Content by Volumetric or Pressure	One per 1,000 yd ³	Same location as project control samples	Side by side audit
	438	Slump	One per 1,000 yd ³		
	435	Unit Weight	One per 1,000 yd ³	Same location as project control samples	Side by side audit

TABLE 5.7 - MINIMUM REQUIRED SAMPLES AND TESTS - INDEPENDENT ASSURANCE (IA)

MATERIAL OR PRODUCT	NEV. TEST NO.	TEST	SAMPLE FREQUENCY	LOCATION OR TIME OF SAMPLING	REMARKS
Portland Cement Concrete for Pavement	431 or 432	Air Content by Volumetric or Pressure	One per 7,500 yd ³	Same location as project control samples	Side by side audit First audit on first day of operations
	438	Slump	One per 7,500 yd³	Same location as project control samples	Side by side audit First audit on first day of operations
	435	Unit Weight	One per 7,500 yd ³	Same location as project control samples	Side by side audit First audit on first day of operations
Self Consolidating Concrete (SCC)	416	Air Content and Unit Weight	One per 1,000 yd ³	Same location as project control samples	Side by side audit First audit on first day of operations
	417	Slump Flow / VSI (Visual Stability Index)	One per 1,000 yd ³		Visual audit of testing procedures First audit on first day of operations
	418	J-Ring / Slump Cone	One per 1,000 yd ³		Visual Audit of testing procedures First audit on first day of operations

Note: When utilizing coldmillings, follow the frequency for which the material is being used for, and refer to the Contract Special Provisions for additional specifications.