

SECTION 301 CLASS I BASE COURSE

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MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
AGGREGATE BASES (DEDICATED STOCKPILE)	Blended Calcium Sulfate (BCS)	Source Approval	Dist. Lab S 101	Mat. Lab	1/source/blend	6 full sample sacks	----	----	12 weeks	
		Quality Control	Contractor S 101	Contractor	*	----	----	----	----	*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department
		Design*	PE S 101	Dist. Lab	1/source	6 full sample sacks	----	----	4 days	Material must be from an approved source. *For moisture-density relationships
		Accept.	PE S 101	Dist. Lab	1/1000 CY	1 full sample sack	----	----	4 days	Material must be from an approved source.
	Recycled PC Concrete	Prelim. Source Approval	Dist. Lab	Dist. Lab				----	2 weeks	RPCC Certification
		Quality Control	Contractor S 101	Contractor	*	----	----	----	----	*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department
		Design*	PE S 101	Dist. Lab	1/source	6 full sample sacks	----	----	4 days	(AML) *For moisture-density relationships
		Accept.	PE S 101	Dist. Lab	1/1000 CY	1 full sample sack	----	100 yd ³	4 days	(Approved Source) Sampled for gradation. Visual inspection to ensure no contamination
		Accept.	PE S 101	Mat. Lab	1/10,000 CY	6 full sample sack	----	100 yd ³	4 days	(Approved Source) Sampled for Abrasion.
	Stone	Quality Control	Contractor S 101	Contractor	*	----	----	----	----	*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department
		Design*	PE S 101	Dist. Lab	1/source	6 full sample sacks	----	----	4 days	(AML) *For moisture-density relationships.
		Accept.	PE S 101 or S 401	Dist. Lab	1/1000CY	1 full sample sack	----	----	4 days	(AML)
	ASPHALTIC CONCRETE BASES	FOR ALL RELATED MATERIALS, SEE SECTION 502 OF THIS MANUAL.								

SECTION 301 CLASS I BASE COURSE (Cont'd)

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
ASPHALTIC MATERIAL	Curing Membrane	SEE SECTION 506 OF THIS MANUAL.								
	Prime Coat	SEE SECTION 505 OF THIS MANUAL.								
CEMENT (HYDRAULIC)	Types I, II & IP	Accept.	----	PE	1/shipment	----	CC	----	(AML)	
		Verif.	PE S 102	Mat. Lab	1/project/source	1 gal friction top can	----	----	21 days (AML)	
PORTLAND CEMENT CONCRETE BASES		Design/ Quality Control/ Accept.	SEE SECTION & 901 OF THIS MANUAL.							
MIXTURE WITH CEMENT AT CENTRAL MIX PLANT	Percent Cement	Quality Control	Contractor S 401	Contractor	1/half day*	----	----	----	----	*In addition to start-up of plant each day and after each shut down.
		Accept.	PE S 401	PE	1/half day	----	----	----	1 hr	----
	Gradation	Quality Control	Contractor S 101	Contractor	1/half day*	1 full sample sack	----	----	----	*When gradation is a requirement of specifications.
		Accept.	PE S 101	PE	1/day*	1 full sample sack	----	----	4 hr.	*Gradation will be run when questionable or individual components of Sand-Clay-Gravel are mixed in a pugmill
	Moisture Content	Quality Control	Contractor S 101 or S 401	Contractor	1/half day*	----	----	----	----	*In addition to start-up of plant each day and after each shut down.
		Accept.	PE S 101	PE	1 / half day	----	----	----	----	----
	Proportions	Quality Control	Contractor S 401	Contractor	*	----	----	----	----	*Shall be monitored continuously.
		Accept.	Contractor S 401	PE	1/half day	----	----	----	1 hr.	----
	Pulverization	Quality Control	Contractor S 401	Contractor	1/half day	----	----	----	----	----
		Accept.	PE S 401	PE	1/half day	----	----	----	1/2 hr.	----

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SECTION 301 CLASS I BASE COURSE (Cont'd)

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MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
BASE MATERIAL ON ROADWAY	Density	Quality Control	Contractor S 101 or S 401	Contractor	*	----	----	----	*Shall test sufficient to ensure specifications will be met.	
		Accept.	PE S 101 or S 401	PE	1/1000 LF/ 2-lane rdwy or 1/2000 LF/shoulder *	----	----	----	1/2 hr. * Asphalt concrete base course will be accepted in accordance with Section 502.	
	Cross Slope & Grade	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall take measurements sufficient to ensure specifications are met.
		Accept.	PE	PE	1/half day	----	----	----	1/4 hr.	Use an approved 10-ft metal static straightedge or other approved device.
	Moisture Content (For Soil Cement or Cement Stabilized Mixtures)	Quality Control	Contractor S 101 or S 401	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications are met.
		Accept.	PE S 101 or S 401	PE	1/half day	----	----	----	1 hr.	
	Thickness & Width	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall take measurements sufficient to ensure specifications are met.
		Verif.	PE	PE	1/half day	----	----	----	1/4 hr.	PE shall notify the Dist. Lab when section is complete.
		Accept.	Dist. Lab	Dist. Lab	1/1000 LF/ 2-lane rdwy or 1/2000 LF/shoulder	----	----	300 LF per location	3 days	*See DOTD TR 602. For small quantity, PE Documents in field book.
SOIL (RAW)	Dedicated Stockpile	Quality Control	Contractor S 401	Contractor	----	----	----	----	Control uniformity of moisture and soil type while stockpile is being built.	
		Design*/ Accept.	PE S 401	Dist. Lab	1/1000 CY	6 full sample sacks**	----	----	21 days *For cement content & moisture-density relationships. **When soils are to be blended, each component must meet specifications before blending. Design and final acceptance will be conducted on the blend.	
WATER		Accept.	PE S 303	Mat. Lab	1/source*	1 qt plastic bottle	----	----	21 days Visual, sample if questionable, if not potable	

SECTION 302 CLASS II BASE COURSE

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QUANT.		CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD				CONTAINER						
NOTE: WHEN A CLASS II BASE COURSE IS PRODUCED BY CENTRAL PLANT MIXING, USE THE SAMPLING SCHEDULES IN SECTION 301 OF THIS MANUAL.												
AGGREGATE BASES	Blended Calcium Sufate (BCS)	Source Approval	Dist. Lab S 101	Mat. Lab	1/source/blend	6 full sample sacks	----	----	12 weeks			
		Quality Control	Contractor S 101	Contractor	*	----	----	----	----		*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department	
		Design*	PE S 101	Dist. Lab	1/source	6 full sample sacks	----	----	4 days		Material must be from an approved source. *For moisture-density relationships	
		Accept.	PE S 101	Dist. Lab	1/1000 CY	1 full sample sack	----	----	4 days		Material must be from an approved source.	
	Recycled PC Concrete	Prelim. Source Approval	Dist. Lab	Dist. Lab				----	----	2 weeks		RPCC Certification
		Quality Control	Contractor S 101 & S 801	Contractor	*	----	----	----	----			*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department
		Design*	PE S 101	Dist. Lab	1/source	6 full sample sacks	----	----	4 days			(AML) *For moisture-density relationships
		Accept.	PE S 101	Dist. Lab	1/1000 CY	1 full sample sack	----	100 yd ³	4 days			(Approved Source) Sampled for gradation. Visual inspection to ensure no contamination
		Accept.	PE S 101	Mat. Lab	1/10,000 CY	6 full sample sack	----	100 yd ³	4 days			(Approved Source) Sampled for Abrasion.
	Stone	Quality Control	Contractor S 101	Contractor	*	----	----	----	----			*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department
		Design*	PE S 101	Dist. Lab	1/source	6 full sample sacks	----	----	4 days			(AML) *For moisture-density relationships.
		Accept.	Dist. Lab S 101	Dist. Lab	1/1000 CY	1 full sample sack	----	100 CY	4 days			(AML)
	ASPHALTIC CONCRETE BASES	FOR ALL MATERIALS, SEE 502 OF THIS MANUAL. .										

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SECTION 302 CLASS II BASE COURSE (cont'd)

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QUANT.		CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD				CONTAINER					
ASPHALTIC MATERIALS	Curing Membrane	SEE SECTION 506 OF THIS MANUAL.									
	Prime Coat	SEE SECTION 505 OF THIS MANUAL.									
CEMENT (Hydraulic)	Types I, II & IP	Accept.	----	PE	1/shipment	----	CC	----	----		(AML)
		Verif.	PE S 101	Mat. Lab	1/project/ source	1 gal friction top can	----	----	21 days		(AML)
CONCRETE, PORTLAND CEMENT, BASE		Design/ Quality Control/ Accept.	SEE SECTION 901 OF THIS MANUAL.								

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SECTION 302 CLASS II BASE COURSE (cont'd)

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
MIXTURE WITH CEMENT AT CENTRAL MIX PLANT			SEE SECTION 301 OF THIS MANUAL.							
BASE MATERIAL ON ROADWAY	Cement Spread Rate (For soil cement or cement treated bases only)	Quality Control	Contractor	Contractor	each transport*	----	----	----	----	*The contractor shall determine the length of spread prior to mixing. Use an approved sampling device.
		Accept.	PE	PE	1/day*	----	----	----	1/2 hr.	*The PE will verify the length of spread on first transport prior to mixing and total spread for the day. At the discretion of the PE Additional testing shall be performed when cement content changes. Use an approved sampling device.
	Cross Slope & Grade	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		Accept.	PE	PE	1/half day	----	----	----	1/4 hr.	Use an approved 10 ft metal static straightedge or other approved device.
	Density	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications are met.
		Accept.	PE	PE	1/1000 LF/ 2-lane rdwy or 1/2000 LF/shoulder	----	----	----	1/2 hr.	----
	Moisture Content (For Soil Cement or treated Sand-Clay-Gravel only)	Quality Control	Contractor S 101 or S 401	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications are met.
		Accept.	PE S 101 or S 401	PE	1/1000 LF/ 2-lane rdwy or 1/2000 LF/shoulder	1 gal friction top can*	----	----	1 hr.	*May be obtained by M.C. % determined during application of TR 415 B, if available on in-place moisture at the time of compaction (TR 403).
	Pulverization (For soil-cement only)	Quality Control	Contractor S 401	Contractor	*	----	----	----	----	*Soil cement shall be tested sufficiently to ensure specifications are met.
		Accept.	PE S 401	PE	1/1000 LF/ 2-lane rdwy or 1/2000 LF/shoulder	1 gal friction top can	----	----	1/2 hr.	
	Thickness & Width	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall be measured sufficiently to ensure specifications are met.
		Verif.	PE	PE	1/half day	----	----	----	1/4 hr.	PE To notify Dist. Lab when section is completed.
Accept.		Dist. Lab	Dist. Lab	1/1000 LF/ 2-lane rdwy or 1/2000 LF/shoulder	----	----	300 LF per location	3 days	See DOTD TR 602. For small quantity, PE documents in field book.	

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SECTION 302 CLASS II BASE COURSE (cont'd)

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
GEOTEXTILE SEPARATOR FABRIC	Class D	Accept.	SEE SECTION 203 OF THIS MANUAL.	Mat. Lab						
SOILS (RAW) ON ROADWAY FOR SOIL CEMENT	Density	Quality Control	Contractor S 401	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications are met. Minimum density is required on roadway prior to spreading cement. Check M.C. % before mixing with cement (TR 403).
		Accept.	PE S 401	PE	1/half day	----	----	----	1/2 hr.	----
	Soils/Soil-Aggregate	Design*	PE S 101 or S 401	Dist. Lab	1/1000 LF/2-lane rdwy or 1/2000 LF/shoulder	6 full sample sacks of blend	----	----	21 days	*For cement content and moisture-density relationships. Design will be conducted on blend.
		Accept.	PE S 101 or S 401	Dist. Lab	1/1000 LF/2-lane rdwy or 1/2000 LF/shoulder	1 full sample sack of blend & 1 sample sack of each component	----	200 LF	5 days	Blending of soils prior to mixing with cement will not be allowed for adjustment of LL or PI.
SOILS (RAW) IN STOCKPILE FOR SOIL CEMENT	Soils/Soil-Aggregate	Quality Control	Contractor S 101 or S 401	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications will be met when placed on roadway. Check M.C. % before spreading cement
		Design*	PE S 101 or S 401	Dist. Lab	1/1000 CY	6 full sample sacks of blend & 1 full sample sack of each component	----	----	21 days	*For cement content and moisture-density relationships. Design will be conducted on blend. For contractor design material sample must be accompanied by independent lab result in accordance with specification.
		Accept.	PE S 101 or S 401	Dist. Lab	1/1000CY	1 full sample sack of blend & 1 full sample sack of each component	----	100 CY	5 days	Blending of soils prior to mixing with cement will not be allowed for adjustment of LL or PI.
Water		Accept.	PE S 303	Mat. Lab	1/source*	1 qt plastic bottle	----	----	21 days	Visual, sample if questionable, if not potable

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SECTION 303 IN-PLACE CEMENT STABILIZED BASE COURSE

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QUANT.		CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD				CONTAINER					
FOR DETAILS ON HYDRAULIC CEMENT AND WATER, REFER TO SECTION 301 OF THIS MANUAL. FOR DETAILS ON ASPHALTIC CURING MEMBRANE, REFER TO SECTION 506 OF THIS MANUAL. FOR DETAILS ON ASPHALTIC CONCRETE OR PORTLAND CEMENT CONCRETE, REFER TO SECTIONS 502 AND 901 OF THIS MANUAL, AS APPLICABLE.											
MATERIAL FOR BASE PRIOR TO SPREADING CEMENT (Existing or Furnished Soils/Soil-Aggregate)	Contractor Furnished Soil	Quality Control	Contractor S 101 or S 401	Contractor	----	----	----	----	----	Must test sufficient to ensure material will meet specification requirements before placing on roadway. Check M.C.% on all materials before spreading cement.	
		Accept.	PE S 101 or S 401	Dist. Lab	1/1000 CY	1 full sample sack	----	----	4 days	Contractor furnished material will be approved before incorporation into existing material. Furnished material not meeting the requirement of specification Subsection 302.02.1 will not be incorporated in the base.	
	Density (93%)	Quality Control	Contractor S 401	Contractor	*	----	----	----	----	*Shall be tested frequently enough to ensure specifications are met. Minimum density is required on roadway prior to mixture with cement. All blending of soils materials will be accomplished before testing.	
		Accept.	PE S 401	PE	1/half day	----	----	----	1/2 hr.	----	
	In-Place Material on Roadway	Design*/ Accept.	Contractor S 101 or S401	Dist. Lab	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	6 full sample sacks	----	----	14 days	*For cement content and moisture-density relationships (if needed). Design will be conducted on the final blend.	
	Pulverization	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall be tested frequently enough to ensure specifications are met.	
Accept.		PE	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	----	----	----	1/2 hr.	Shall be obtained after blending of any contractor furnished material. Pulverization shall be approved prior to spreading cement.		

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SECTION 303 IN-PLACE CEMENT STABILIZED BASE COURSE & IN-PLACE CEMENT TREATED BASE COURSE (Cont'd)

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
FOR DETAILS ON HYDRAULIC CEMENT AND WATER, REFER TO SECTION 301 OF THIS MANUAL. FOR DETAILS ON ASPHALTIC CURING MEMBRANE, REFER TO SECTION 506 OF THIS MANUAL. FOR DETAILS ON ASPHALTIC CONCRETE OR PORTLAND CEMENT CONCRETE, REFER TO SECTIONS 501,501 AND 901 OF THIS MANUAL, AS APPLICABLE.										
MIXTURE WITH CEMENT ON ROADWAY	Cement Spread Rate	Quality Control	Contractor*	Contractor	each transport	**	----	----	----	*The contractor shall determine the length of spread prior to mixing. **Use an approved sampling device.
		Accept.	PE*	PE	1/day	**	----	----	1/2 hr.	*The PE will verify the length of spread on first transport prior to mixing and total spread for the day. **Use an approved sampling device.
	Cross Slope & Grade	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications are met. Use an approved 10 ft. metal static straightedge.
		Verif.	PE	PE	1 / half-day	----	----	----	----	Use an approved 10 ft. metal static straightedge or other approved device.
	Density	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications are met.
		Accept.	PE	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	----	----	----	1/2 hr.	----
	Moisture Content	Quality Control	Contractor S 101 or S 401	Contractor	*	----	----	----	----	*Shall test sufficient to ensure specifications are met. (DOTD TR 403)
		Accept.	PE S 101 or S 401	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	1 gal friction top can*	----	----	1 hr.	*May be obtained by M.C. % determined during application of TR 415 B, if available on in-place moisture at the time of compaction (TR 403).
	Pulverization	Accept.	PE S 101 or S 401	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	----	----	----	1/2 hr.	
	Thickness & Width	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall be measured sufficiently to ensure specifications are met.
		Verif.	PE	PE	1/half day	----	----	----	1/4 day	PE shall notify Dist. Lab when section is complete.
		Accept.	Dist. Lab	Dist. Lab	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	----	----	300 LF per location	3 days	*See DOTD TR 602. For small quantity, PE documents in field book.

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SECTION 304 LIME TREATMENT

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QUANT.		CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD				CONTAINER					
FOR DETAILS ON HYDRAULIC CEMENT REFER TO SECTION 301 OF THIS MANUAL. FOR DETAILS ON ASPHALTIC CURING MEMBRANE, REFER TO SECTION 506 OF THIS MANUAL. FOR DETAILS ON ASPHALTIC CONCRETE OR PORTLAND CEMENT CONCRETE, REFER TO SECTIONS 502 AND 901 OF THIS MANUAL, AS APPLICABLE.											
CURING MEMBRANE	Type B (only)	----	----	Mat. Lab/ PE	SEE SECTION 506 OF THIS MANUAL.						
LIME (Hydrated and Quicklime)		Accept.	----	Mat. Lab	1/shipment	----	CD	----	----	(AML)	
		Verif.	PE S 102	Mat. Lab	1/project/source	1 gal friction top can	----	----	21 days	(AML) *Not required if sampled under another item.	
MIXTURE ON ROADWAY	Density-(Type B & C)	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.	
		Accept.	PE	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	----	----	----	1/2 hr.	----	
	Density-(Type D)	Accept.	PE	PE	----	----	----	----	----	Compact to the satisfaction of the Engineer.	
	Density-(Type E)	Accept.	PE	PE	SEE SECTION 203 OF THIS MANUAL.						
	Lime Spread Rate	Quality Control	Contractor*	Contractor	Each transport	**	----	----	1/2 hr.	*The contractor shall determine the length of spread. **Use an approved sampling device.	
		Accept.	PE*	PE	1 / day	**	----	----	1/2 hr.	* The PE shall verify the length of spread. **Use an approved sampling device.	

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SECTION 304 LIME TREATMENT (Cont'd)

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MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
MIXTURE ON ROADWAY (Cont'd)	Maximum Dry Density	Quality Control	Contractor S 101	Contractor	*	----	----	----	----	*Shall Check sufficient to ensure specifications are met.
		Accept.	PE S 101	PE	*	----	----	----	----	* For Type B, determine optimum moisture in accordance with TR 403.
	Pulverization (Type B & C)	Quality Control	Contractor S 101	Contractor	*	----	----	----	----	*Shall Check sufficient to ensure specifications are met.
		Accept.	PE S 101	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	1 gal friction top can	----	----	1/2 hr.	----
	Pulverization (Type D & E)	Accept.	Proj. Engr	PE	----	*	----	----	----	*Satisfaction of Engineer.
	Thickness & Width (Type B)	Quality Control	Contractor	Contractor	*	----	----	----	----	*Shall Check sufficient to ensure specifications are met.
		Verif.	PE	PE	1/half day	----	----	----	1/4 hr.	PE to notify Dist. Lab when section is complete.
		Accept.	Dist. Lab	Dist. Lab	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	----	----	300 LF per location	3 days	See DOTD TR 602. For small quantity, PE Documents in field book.
	Thickness & Width (Type C & D)	Accept.	PE	PE	*	----	----	----	----	*Satisfaction of the Project Engr. Documents in field book.
	Thickness & Width (Type E)	Accept.	Proj. Engr	PE	FOR LIFT THICKNESS REQUIREMENTS SEE SECTION 203 OF THIS MANUAL					
SOIL OR SOIL-AGGREGATE	% Lime*	Design	PE S 101 or S 401	Dist. Lab	1/1000 LF/2-lane rdwy or 1/2000 LF/ shoulder	6 full sample sacks	----	----	10 days	*Not required when percent lime is specified in plans or project specifications.
Water		Accept.	PE S 303	Mat Lab	1/source*	1 qt plastic bottle	----	----	21 days	Visual, sample if questionable, if not potable

SECTION 305 SUBGRADE LAYER

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QUANT.		CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD				CONTAINER					
NOTE: WHEN A SUBGRADE LAYER IS PRODUCED BY CENTRAL PLANT MIXING, USE THE SAMPLING SCHEDULES IN SECTION 301 OF THIS MANUAL. FOR PLACEMENT AND CONSTRUCTION REFER TO APPLICABLE SECTIONS OF THIS MANUAL.											
AGGREGATES	Stone, Recycled PC Concrete	SEE SECTION 302 OF THIS MANUAL		Dist. Lab							
	Blended Calcium Sulfate	SEE SECTION 302 OF THIS MANUAL.									
CEMENT	SEE SECTION 302 OF THIS MANUAL.										
ASPHALTIC MATERIALS	Curing Membrane	SEE SECTION 506 OF THIS MANUAL.									
	Prime Coat	SEE SECTION 505 OF THIS MANUAL.									
GEOTEXTILE FABRIC	SEE SECTION 203 OF THIS MANUAL										
LIME (Hydrated or Quicklime)	SEE SECTION 304 OF THIS MANUAL.										
MIXTURE WITH LIME AND/OR CEMENT ON ROADWAY	Pulverization*	Accept.	PE S 401	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/shoulder	----	----	----	1/2 hr.	*For soil after mixing with cement and/or lime.	
SOIL		Design*	PE S 401	Dist. Lab.	1/1000 LF/2-lane rdwy or 1/2000 LF/shoulder	6 full sample sacks	----	----	10 days	*For Moisture Density relationships.	
		Accept.*	PE	Dist. Lab	1/1000 LF/2-lane rdwy or 1/2000 LF/shoulder	1 full sample sack	----	----	4 days	*When soils are to be blended, each component must meet specifications before blending. Design and final acceptance will be conducted on the blend.	

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SECTION 305 SUBGRADE LAYER (Cont'd)

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MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
SUBGRADE LAYER	Density (Stone Recycled PCC, Soil Cement)	SEE SECTIONS 302 OF THIS MANUAL								
	Density (Blended Calcium Sulfate)	Quality Control	Contractor S 401	Contractor	*	----	----	----	----	*Shall check sufficiently to ensure specifications requirements.
	Thickness & Width	Verif.	PE	Dist. Lab	1/1000 LF/ 2-lane rdwy or 1/2000 LF/ shoulder	----	----	----	1/2 hr.	Shall not be placed within 10 ft of metal pipe. Shall be from an approved source.
		PE	See Section 302, 303 or 304 of this Manual as applicable. District Lab not required to perform DOTD TR 602 Measurements.							
WATER	Accept.	PE S 303	Mat. Lab	1/source	1 qt plastic bottle	----	----	21 days	Visual, sample if questionable, if not potable	

SECTION 306 SCARIFYING & COMPACTING ROADBED

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MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
EXISTING MATERIAL	Density	Accept.	PE	Proj. Engr	1/1000 LF/ 2-lane rdwy or 1/2000 LF/ shoulder	----	----	----	1/2 hr.	----
ASPHALTIC MATERIAL	Prime Coat	SEE SECTION 505 TO THIS MANUAL.								

SECTION 307 PERMEABLE BASES

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MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
AGGREGATE	Stone	Accept.	PE S 101	Dist. Lab	1/1000CY	1 full sample sack	----	----	4 days	(AML)
ASPHALTIC MATERIALS	Asphalt Cement	Accept., Verif.	SEE SECTION 502 OF THIS MANUAL							(AML)
ANTI-STRIP		Accept., Verif.	SEE SECTION 502 OF THIS MANUAL							(AML)
ADMIXTURE		Accept., Verif.	SEE SECTION 901 OF THIS MANUAL							(AML)
CEMENT (HYDRAULIC)		Accept., Verif.	SEE SECTION 901 OF THIS MANUAL							(AML)
CURING COMPOUND		Accept., Verif.	SEE SECTION 601 OF THIS MANUAL							(AML)
PERMEABLE ASPHALT BASE (PLANT)		SEE SECTION 502 OF THIS MANUAL.								

SECTION 307 PERMEABLE BASES

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QUANT.		CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD				CONTAINER					
PERMEABLE CONCRETE BASE (PLANT)		SEE SECTION 901 OF THIS MANUAL.									
PERMEABLE BASES	Cross Slope & Grade	Quality Control	Contractor	Contractor	*	----	----	----	----	----	* Shall measure sufficiently to ensure specifications are met.
		Accept.	PE*	PE	1/day	----	----	----	----	----	*Use 10 ft metal static straight edge or approved device.
	Thickness & Width	Quality Control	Contractor	Contractor	*	----	----	----	----	----	*Shall measure sufficiently to ensure specifications are met.
		Accept.	Contractor/ PE	PE	1/2000 LF	----	----	----	----	----	
Temperature	Accept.*	PE S 605	PE	1/5000 tons	----	----	----	----	----	*Required for Asphaltic Concrete only.	
WATER		Accept.	PE S 303		1/source*	1 qt plastic bottle	----	----	21 days	Visual, sample if questionable, if not potable	

SECTION 309 IN-PLACE CEMENT TREATED SUBGRADE

MATERIAL	PURP.	SAMPLED BY		TESTED BY	MIN. FREQ.	MIN. QUANT.		CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD				CONTAINER					
CEMENT		SEE SECTION 302 OF THIS MANUAL.									
CEMENT RATE	% Cement*	Design	PE S 101 or S 401	Dist. Lab	*	*	----	----	21 days	*Not required when percent cement is specified in plans or project specifications.	
SOIL		Design*	PE S 401	Dist. Lab.	1/1000 LF/2-lane rdwy or 1/2000 LF/1-lane rdwy	6 full sample sacks	----	----	10 days	*For Moisture Density relationships.	
MIXTURE ON ROADWAY	Cement Spread Rate	Quality Control	Contractor*	303.07 Contractor	each transport	**	----	----	----	*The contractor shall determine the length of spread prior to mixing. **Use an approved sampling device.	
		Accept.	PE*	PE	1/day	**	----	----	1/2 hr.	*The PE will verify the length of spread on first transport prior to mixing and total spread for the day. **Use an approved sampling device.	
	Pulverization	Quality Control	Contractor S 101	Contractor	*	----	----	----	----	----	*Shall Check sufficient to ensure specifications are met.
		Accept.	PE S 101	PE	1/1000 LF/2-lane rdwy or 1/2000 LF/1-lane rdwy	1 gal friction top can	----	----	----	1/2 hr.	----
	Density	Quality Control	Contractor	Contractor	*	----	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		Accept.	PE	PE	----	----	----	----	----	----	Compact to the satisfaction of the Engineer.
Thickness & Width	Verif.	PE	PE	*	----	----	----	----	----	* Satisfaction of the Project Engr. Documents in field book.	
WATER		Accept.	PE S 303	Mat. Lab	1/source	1 qt plastic bottle	----	----	21 days	Visual, sample if questionable, if not potable	

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