SECTION 302 CLASS II BASE COURSE

MATERIAL		REF. / TESTED BY	PURP.	SAMPLED BY / METHOD	MIN. FREQ.	MIN. QUANT. / CONTAINER	CERT. / DISTR.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
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	Recycled PC Concrete	Contractor 302.01 302.02 302.08	Quality Control	Contractor S 101	*	------	------	-----	------	*Must test sufficient to ensure materials being delivered meet specification requirements.
		302.02 Dist. Lab	Design*	Proj. Engr. S 101	1/source	6 full sample sacks	------	-----	4 days	Material must be source approved. *For moisture-density relationships.
		302.02 Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 yd^3	1 full sample sack	------	100 yd^3	4 days	Material must be source approved..
		302.02 1003.03(e) Mat. Lab	Prelim. Source Approval	Dist. Lab S 801	1/stockpile*	6 full sample sacks	------	------	21 days	*See S 801 for maximum stockpile quantities.
	Sand Clay Gravel	302.01 302.02 302.08 Contractor	Quality Control	Contractor S 101 or S 401	*	------	------	------	------	*Must test sufficient to ensure materials being delivered meet specification requirements.
		302.02 Dist. Lab	Design*	Proj. Engr. S 101	1/source	6 full sample sacks	------	------	10 days	*For moisture-density relationships.
		302.02 Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ shoulder*	1 full sample sack	------	200 lin ft or 100 yd^3	5 days	*For stockpiles, ramps, turnouts, etc. minimum frequency shall be 1 per 1000 yd^3.

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AGGREGATE BASES (Cont'd)	Sand for Sand-Shell Mixture	302.01 302.02 302.08 Contractor	Quality Control	Contractor S 401	*	------	------	------	------	*Must test sufficient to ensure materials being delivered meet specification requirements.
		302.02 Dist. Lab	Design*	Proj. Engr. S 101	1/source	3 full sample sacks	------	------	10 days	*For moisture-density relationships of sand-shell mixture.
		302.02 Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 yd^3	1 full sample sack	-----	100 yd^3	4 days	Must be accepted prior to mixing.
	Shell for Sand-Shell Mixture	302.01 302.02 302.08 Contractor	Quality Control	Contractor S 101	*	------	------	------	------	*Must test sufficient to ensure materials being delivered meet specification requirements.
		302.02 Dist. Lab	Design*	Proj. Engr. S 101	1/source	6 full sample sacks	-----	------	10 days	*For moisture-density relationships of sand-shell mixture.
		302.02 Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 yd^3	1 full sample sack	------	100 yd^3	4 days	Must be accepted prior to mixing.
	Stone or Crushed Slag	302.01 302.02 302.08 Contractor	Quality Control	Contractor S 101	*	------	-----	------	------	*Must test sufficient to ensure materials being delivered meet specification requirements.
		302.02 Dist. Lab	Design*	Proj. Engr. S 101	1/source	6 full sample sacks	------	------	4 days	(QPL 2) *For moisture-density relationships.
		302.02 Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 yd^3	1 full sample sack	-----	100 yd^3	4 days	(QPL 2)
		302.02 Dist. Lab	I A	Dist. Lab S 101	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
ASPHALTIC CONCRETE BASES		FOR ALL RELATED MATERIALS, SEE SECTION 501 OF THIS MANUAL. SEE INDEPENDENT ASSURANCE PROGRAM S 701.								

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ASPHALTIC MATERIALS	Curing Membrane	SEE SECTION 506 OF THIS MANUAL.								
	Prime Coat	SEE SECTION 505 OF THIS MANUAL.								
CEMENT (Hydraulic)	Types I, I(B), II & IP	302.02 1001.01 Mat. Lab	Prelim. Source Approval	Mfr. AASHTO T 127	1/month/ type	1 gal Friction top can or acceptable moisture proof container	------	------	-----	(QPL 7) Composited and blended from daily plant samples and submitted for quality control verification.
		302.02 1001.01 Proj. Engr.	Accept.	------	1/shipment	------	CD 1 & 7	-----	------	(QPL 7)
		302.02 1001.01 Mat. Lab	Verif.	Proj. Engr. S 102	1/project/ source	1 gal Friction top can	------	------	21 days	(QPL 7)
CONCRETE, PORTLAND CEMENT, BASE		302.01 302.12	Design/ Control/ Accept.	SEE SECTION 901 OF THIS MANUAL.						
BASE MATERIAL ON ROADWAY	Cement Spread Rate (For soil cement or cement treated bases only)	302.01 302.08 Contractor	Quality Control	Contractor TR 436	Each transport*	------	-----	-----	-----	*The contractor shall determine and the Proj. Engr. will verify the length of spread.
		302.12 Proj. Engr.	Accept.	Proj. Engr. TR 436	1/day*		------	------	½ hr.	*Use an approved sampling device. At the discretion of the Proj. Engr. Additional testing shall be performed when cement content changes
	Cross Slope & Grade	302.01 302.08 Contractor	Quality Control	Contractor	*	------	------	------	-----	*Shall check sufficient to ensure specifications are met. Use an approved 10 ft metal static straightedge.
		302.12(d) Proj. Engr.	Verif.	Proj. Engr.	*	------	------	------	1/4 hr.	

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BASE MATERIAL ON ROADWAY (Cont'd)	Density	302.01 302.08 Contractor	Quality Control	Contractor TR 401	*	------	------	------	------	*Shall test sufficient to ensure specifications are met.
		302.12(a) Proj. Engr.	Accept.	Proj. Engr. TR 401	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ shoulder	------	------	------	½ hr.	------
		302.12 Dist. Lab	I A	Dist. Lab TR 401	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
	Moisture Content	302.01 302.08 Contractor	Quality Control	Contractor S 101 or S 401	*	------	------	------	------	*Shall test sufficient to ensure specifications are met.
		302.05 302.12 Proj. Engr.	Accept.	Proj. Engr. S 101 or S 401	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ 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)	302.01 302.08 Contractor	Quality Control	Contractor S 401	*	------	------	------	------	*Soil cement shall be tested sufficiently to ensure specifications are met.
		302.05 302.12 Proj. Engr.	Accept.	Proj. Engr. S 401	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ shoulder	1 gal Friction top can	------	-----	½ hr.	(DOTD TR 431)

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BASE MATERIAL ON ROADWAY (Cont'd)	Thickness & Width	302.01 302.08 Contractor	Quality Control	Contractor	*	------	------	-----	-----	*Shall be measured sufficiently to ensure specifications are met.
		302.12(b) 302.12(c) TR 602 Proj. Engr.	Verif.	Proj. Engr. TR 602	1/half day	------	-----	-----	1/4 hr.	Proj. Engr. to notify Dist. Lab when section is completed.
		302.12(b) 302.12(c) Dist. Lab	Accept.	Dist. Lab TR 602	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ shoulder*	-----	------	300 lin ft per location	3 days	*See DOTD TR 602. For small quantity, Proj. Engr. documents in field book.
SOILS (RAW) ON ROADWAY FOR SOIL CEMENT	Density (93%)	302.01 302.08 Contractor	Quality Control	Contractor TR 401	*	------	-----	-----	-----	*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).
		302.05 Proj. Engr.	Accept.	Proj. Engr. TR 401	1/half day	-----	-----	------	½ hr.	-----
	Soils/Soil-Aggregate	302.05(a) Dist. Lab	Design*	Proj. Engr. S 101 or S 401	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ shoulder	6 full sample sacks of blend	-----	-----	14 days	*For cement content and moisture-density relationships. Design will be conducted on the blend.
		302.02(a) Dist. Lab	Accept.	Proj. Engr. S 101 or S 401	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ shoulder	1 full sample sack of blend & 1 full sample sack of each component	-----	200 lin ft	5 days	Blending of soils prior to mixing with cement will not be allowed unless each component meets specifications.
		302.02 (a) Dist. Lab	IA	Dist. Lab S 101 or S 401	SEE INDEPENDENT ASSURANCE PROGRAM S 701					

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SOILS (RAW) STOCKPILE	Soils/Soil-Aggregate	302.01 302.08 Contractor	Quality Control	Contractor S 101 or S 401	*	------	------	------	------	*Shall test sufficient to ensure specifications will be met when placed on roadway. Check M.C.% before spreading cement.
		302.05(a) Dist. Lab	Design*	Proj. Engr. S 101 or S 401	1/1000 yd^3	6 full sample sacks of blend & 1 full sample sack of each component	------	-----	14 days	*For cement content and moisture-density relationships. Design will be conducted on the blend.
		302.02 (a) Dist. Lab	Accept.	Proj. Engr. S 101 or S 401	1/1000 yd^3	1 full sample sack of blend & 1 full sample sack of each component	------	100 yd^3	5 days	Blending of soils prior to spreading cement will not be allowed unless each component meets specifications.
		302.02(a) Dist. Lab	I A	Dist. Lab 101 or S 401	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
WATER		1018.01 Mat. Lab	Accept.	Proj. Engr. S 303	1/source*	1 qt Plastic bottle	------	-----	21 days	*Drinkable water need not be sampled.