MATERIAL		REF.	PURP.	SAMPLED BY	MIN.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		TESTED BY		METHOD	FREU.	CONTAINER	DISTR.	QUANTITY	TIME		
AGGREGATE BASES (Dedicated	Recycled PC Concrete	1003.03(e) Mat. Lab	Perlim. Source Approval	Dist. Lab S 101 & S 801	1/stockpile*	12 full sample sacks			21 days	*See S 801 for maximum stockpile quantities.	
stockpile)		301.07(c) Contractor	Quality Control	Contractor S 101 & S 801	*					*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department.	
		1003.03(e) Dist. Lab	Design*	Proj. Engr. S 101	1/source	6 full sample sacks			4 days	Material must be source approved. *For moisture-density relationships	
		1003.03(e) Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 yd ³	1 full sample sack			4 days	Material must be source approved.	
	Sand Clay Gravel	301.07(a) Contractor	Quality Control	Contractor S 101 or S 401	*					*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department.	
		1003.03(a) Dist. Lab	Design*	Proj. Engr. S 101 or S 401	1/source	6 full sample sacks			10 days	*For moisture-density relationships.	
		1003.03(a) Dist. Lab	Accept.	Proj. Engr. S 101 or S 401	1/1000 yd³	1 full sample sack			5 days	Must be accepted prior to mixing with cement. If individual components are to be mixed in the pugmill, approval procedure shall be approved by the Materials Engineer Administrator.	
	Sand for Sand- Shell Mixture	301.07 Contractor	Quality Control	Contractor S 401	*					*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department.	
		1003.03(c)(2) Dist. Lab	Design*	Proj. Engr. S 401	1/source	3 full sample sacks			10 days	*For moisture-density relationships of sand-shell mixture	
		1003.03(c)(2) Dist. Lab	Accept.	Proj. Engr. S 401	1/1000 yd³	1 full sample sack			4 days	Must be accepted prior to mixing.	

MA	MATERIAL		PURP.	SAMPLED BY	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
		TESTED BY		METHOD	FREQ.	CONTAINER	DISTR.	QUANTITY	TIME	
AGGREGATE BASES (Dedicated Stockpile) (Cont'd)	Shell for Sand- Shell Mixture	301.07 Contractor	Quality Control	Contractor S 101	*					*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department.
		1003.03(c)(1) Dist. Lab	Design*	Proj. Engr. S 101	1/source	6 full sample sacks			10 days	*For moisture-density relationships of sand-shell mixture.
		1003.03(c)(1) Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 yd³	1 full sample sack			4 days	Must be accepted prior to mixing.
	Stone or Crushed Slag	301.07 Contractor	Quality Control	Contractor S 101	*					*Must be controlled so that materials placed in stockpile will conform to specifications when tested by the Department.
		1003.03(d) Dist. Lab	Design*	Proj. Engr. S 101	1/source	6 full sample sacks			4 days	(QPL 2) *For moisture-density relationships
		1003.03(d) Dist. Lab	Accept.	Proj. Engr. S 101	1/1000 yd³	1 full sample sack			4 days	
		1003.03(d) Dist. Lab	IA	Dist. Lab S 101 or S 401		SEE	E INDEPENDE	NT ASSURANCE	PROGRAM S 7	701.

M	IATERIAL	REF.	PURP.	SAMPLED BY	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS		
		TESTED BY		METHOD	FREQ.	CONTAINER	DISTR.	QUANTITY	TIME			
ASPHALTIC CONCRETE BASES		i	SURANCE PROG	RAM S 701.								
ASPHALTIC	Curing Membrane				SEE SE	CTION 506 OF TH	HIS MANUA	L				
MATERIAL	Prime Coat	SEE SECTION 505 OF THIS MANUAL										
CEMENT (Hydraulic)	Types I, I(B), II & IP	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.		
		1001.01 Proj. Engr.	Accept.		1/shipment		CD 1 & 7			(QPL 7)		
		1001.01 Mat. Lab	Verif.	Proj. Engr. S 102	1/project/ source	1 gal Friction top can			21 days	(QPL 7)		
PORTLAND CONCRETE CEMENT , BASES		301.01 301.16	Design/ Control/ Accept.	SEE SECTION 901 OF THIS MANUAL.								
MIXTURE WITH CEMENT AT CENTRAL MIX PLANT	Cement Percent	301.07 Contractor	Quality Control	Contractor TR 436	1/half day*					*In addition to start- up of plant each day and after each shut down.		
		301.16 Proj. Engr.	Accept.	Proj. Engr. TR 436	1/half day				1 hr.			

SECTION 301 CLASS I BASE COURSE (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			Semple Applement
MIXTURE WITH CEMENT AT CENTRAL MIX PLANT (Cont'd)	Gradation	301.07 Contractor	Quality Control	Contractor S 101	1/half day*	1 full sample sack				*When gradation is a requirement of specifications.
		301.16 Proj. Engr.	Accept.	Proj. Engr. S 101	1/day*	1 full sample sack			4 hr.	*Gradation will be run when questionable or individual components of SCG are mixed in a pugmill.
	Moisture Content	301.07 Contractor	Quality Control	Contractor S 101, S 401	1/half day*					*In addition to start-up of plant each day and after each shut down.
	Proportions	301.07 Contractor	Quality Control	Contractor TR 436	*					*Shall be monitored continuously.
		301.16 Proj. Engr.	Accept.	Proj. Engr. TR 436	1/half day		,		1 hr.	
	Pulverization	301.07 Contractor	Quality Control	Contractor S 401	1/half day				½ hr.	
		301.16 Proj. Engr.	Accept.	Proj. Engr. S 401	1/half day					
BASE MATERIAL ON	Density	301.11 Contractor	Quality Control	Contractor TR 401	*					*Shall test sufficient to ensure specifications will be met.
ROADWAY		301.16(a) Proj. Engr.	Accept.	Proj. Engr. TR 401	1/1000 lin ft/ 2-lane rdwy or 1/2000 lin ft/ shoulder				½ hr.	
		301.16(a) Dist. Lab	IA	Dist. Lab TR 401		SEE IN	NDEPENDEN	T ASSURANCE	PROGRAM S 70°	1.

MA	TERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
BASE MATERIAL	Cross Slope & Grade	301.11 Contractor	Quality Control	Contractor	*					*Shall take measurements sufficient to ensure
ON ROADWAY (Cont'd)		Proj. Engr.	Verif.	Proj. Engr.	*				1/4 hr.	specifications are met. Use an approved 10-ft metal static straightedge.
	Moisture Content	301.11 Contractor	Quality Control	Contractor TR 403	*					*Shall test sufficient to ensure specifications are met.
		301.16 Proj. Engr.	Accept.	Proj. Engr. S 101, S 401	1/half day				1 hr.	TR 403. (The M.C., % from TR 415 B may be used if available from in-place material at the time of compaction.)
	Thickness & Width	301.11 Contractor	Quality Control	Contractor	*					*Shall take measurements sufficient to ensure specifications are met.
		301.16(b) 301.16(c) Proj. Engr.	Verif.	Proj. Engr. TR 602	1/half day				1/4 hr.	Proj. Engr. shall notify the Dist. Lab when section is complete.
		301.16(b) 301.16(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.
SOIL (RAW)	Dedicated Stockpile	301.11 Contractor	Quality Control	Contractor S 401						Control uniformity of moisture and soil type while stockpile is being built.
		301.02(a) 301.05(a) Dist. Lab	Design*/ Accept.	Proj. Engr. S 401	1/1000 yd³	6 full sample sack**		<u></u>	14 days	*For cement content & moisture-density relationships. **When soils are to be blended, each component must met specifications before blending. Design and final acceptance will be conducted on the blend.
		301.02(a) 301.03(a) Dist. Lab	I A	Dist. Lab 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.