CONSTRUCTION OR MATERIAL TYPE 2007 Std. Spec. (SS 2007)	TESTS REQUIRED (RECORDED TO)	TEST METHOD	CMS			CODE	ACCEPTANCE SAMPLES & TESTS
	•	DIVISIO	N 200	•		•	•
COMPACTION OF EARTHV	VORK						
Sec. 204, 205 & 208 Compaction	Field Density Tests	KT-13	ACI	I	T	l _o	4 per day per <u>lift</u> when
Compaction		or KT-51	ACI			a	visual determination is not
	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$	01 K1-31					possible.
Backfill	optimum density) Field Density Tests	KT-13	ACI				1 per structure minimum
Dackim	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$	or KT-51	ACI				(each side).
	optimum density)	01 K1-31					(cach side).
Moisture Content	Moisture Tests	KT-13	ACI			a	4 per day per <u>lift</u> when
Wolsture Content	(0.1 g or 0.01% of mass)	or KT-51	ACI			a	visual determination is not
	(0.1 g 01 0.01 / 0 01 11433)	01 11 31					possible.
Backfill	Moisture Tests	KT-13	ACI				1 per structure minimum
	(0.1 g or 0.01% of mass)	or KT-51					(each side).
Compaction Types	Field Density Tests	KT-13	ACI			a	1000 ft (300 m).
AAA, AA, or A	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$	or KT-51				b	
	optimum density)						
Moisture Content	Moisture Tests	KT-11	ACI			e	
Requirements for	(0.1 g or 0.01% of mass)						
MR-0, MR-3, MR-3-3 or MR-	5						
		DIVISIO					
SUBGRADE MODIFICATIO	*	ivision 1100 i	regarding	gaggregat	es)		
Sec. 301, 1110 & 1112	N						
Aggregates	Sieve Analysis of Aggregate	KT-2	ACC			a	500 TONS (500 Mg) or 500
nggregates	(1%, 0.1% for No. 200 [75 µm]	KT Z	nec			a a	yd^3 (500 m ³).
	sieve, of mass)						yd (300 m).
	Material Passing the No. 200 (75	KT-3	ACI			a	500 TONS (500 Mg) or 500
	μm) Sieve by the Wash Method						yd ³ (500 m ³).
	(0.1% of mass)						J (= = = /·
	Clay Lumps and Friable Particles in	KT-7				e	
	Aggregate						
	(0.1 g or 0.01% of mass)						

CONSTRUCTION OR MATERIAL TYPE	TESTS REQUIRED (RECORDED TO)	TEST METHOD	CMS	CODE	VERIFICATION SAMPLES & TESTS	CODE	ACCEPTANCE SAMPLES & TESTS
2007 Std. Spec. (SS 2007)	DI DI	VISION 300	(22-4:	٥ۥ٩)	(Note f)		
SUBGRADE MODIFICATION (co		V 1810 IN 300	(conunu	ea)			
Sec. 301, 1110 & 1112	onunued)						
Aggregates	Shale or Shale-Like Materials in	KT-8				e	
(continued)	Aggregate (0.1 g or 0.01% of mass)						
	Plasticity Tests	KT-10	ACI			b	500 TONS (500 Mg) or 500
	(0.01 g or 0.1% of mass)					c	$yd^3 (500 m^3).$
	Sticks in Aggregate	KT-35				e	
	(0.01% of mass)						
CALCIUM CHLORIDE			VER		Sample first container		
Sec. 301, 305 & 1702					received on project.		
LIME TREATED SUBGRADE	Moisture Tests	KT-11	ACI			e	
Sec. 302, 2000 & 2400	(0.1 g or 0.01% of mass)		. ~~				
	Sieve Analysis for Acceptance of	KT-42	ACI			e	
	Lime or Cement Treated Subgrade						
	(1% of mass) Percent Solids of Lime Slurry	KT-62					Car Amandia D
	(WPG 0.01 g, Slurry Solids 0.1%)	K1-02					See Appendix B.
HYDRATED LIME AND	(WFG 0.01 g, Sluffy Solids 0.1%)	KT-29	VER	a	1 sample for each 10		See Standard
PEBBLE QUICKLIME		K1-27	V LIX	a	loads.		Specifications.
Sec. 302, 1103, 2002 & 2003					10445.		specifications.
CEMENT OR FLY ASH	Sieve Analysis for Acceptance of	KT-42	ACI			e	
TREATED SUBGRADE	Lime or Cement Treated Subgrade						
Sec. 303, 2000, & 2400	(1% of mass)						
FLY ASH FOR		KT-29	VER	a	2 samples per month per		See Standard
STABILIZATION AND COLD					source per district.		Specifications.
RECYCLE							
Sec. 303, 604, & 2005							
	Field Density Tests	KT-41	ACI			e	
Sec. 304, 1100, & 2400	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$						
	optimum density)						
	Relative Density	KT-69					Submit samples to MRC as required.

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	D	IVISION 300	(continu	ed)			
SUBGRADE MODIFICATION							
Sec. 301, 1110 & 1112							
CRUSHED STONE FOR	Sieve Analysis of Aggregate	KT-2	ACC			a	500 TONS (500 Mg).
BACKFILL	(1%, 0.1% for No. 200 [75 μm]						
Sec. 304, 1107, & 1115	sieve, of mass)						
AGGREGATE BASE COURSE							
Sec. 305 and 1104					_		
Individual Aggregates	Sieve Analysis of Aggregate	KT-2	VER	e			
	(1%, 0.1% for No. 200 [75 μm]						
	sieve, of mass)						
	Plasticity Tests	KT-10	VER	e			
	(0.01 g or 0.1% of mass)						
Binder Material	Sieve Analysis of Aggregate	KT-2	VER	e			
	(1%, 0.1% for No. 200 [75 μm]						
	sieve, of mass)	VIII 40					
	Plasticity Tests	KT-10	VER	e			
	(0.01 g or 0.1% of mass)	IVE 2	A CC				1000 6 (200) 1 1 6 16
Combined Aggregate	Sieve Analysis of Aggregate	KT-2	ACC			a	1000 ft (300 m) each lift. If
	(1%, 0.1% for No. 200 [75 μm]						total aggregate then each
	sieve, of mass) Plasticity Tests	KT-10	ACI				500 TONS (500 Mg). 1000 ft (300 m) each lift. If
	-	K1-10	ACI			a	` /
	(0.01 g or 0.1% of mass)					C	total aggregate then each
	Moisture Tests	KT-11	ACI			e	500 TONS (500 Mg).
	(0.1 g or 0.01% of mass)	181-11	ACI				
Completed Base	Field Density Tests	KT-13	ACI		 	a	1000 ft (300 m).
Completed Base	(0.1 lb/ft ³ [1 kg/m ³] or 0.1% of	or KT-41	1101			"	1000 It (300 III).
		01 171-41					
	optimum density)						

TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
				(Note f)		
Ľ	DIVISION 300	(continu	ied)			
Sieve Analysis of Aggregate	KT-2	VER	e			
(1%, 0.1% for No. 200 [75 μm]						
sieve, of mass)						
•	KT-10	VER	e			
	KT-2	VER	e			
		<u> </u>				
1	KT-10	VER	e			
	TVT 0	4 GG			1	1000 5 (200) 1 155 15
	KT-2	ACC			a	1000 ft (300 m) each lift. If
						total aggregate then each
	IZT 10	A CT				500 TONS (500 Mg).
1	KT-10	ACI				1000 ft (300 m) each lift. If
(0.01 g or 0.1% of mass)					С	total aggregate then each
Moieture Tests	VT 11	ACI	+			500 TONS (500 Mg).
	K1-11	ACI			е	
	KT 13	۸CI			h	1000 ft (300 m) or 750
•		ACI			U	TONS (750 Mg).
	01 K1-41					10N3 (750 Mg).
	VT 11	ACI			h	+
		ACI			В	
[(0.1 g of 0.01% of mass)	01 K1-41					1
Sieve Analysis of Aggregate	KT-2	VER	e	T		
	111 2	, 210	Ĭ			
- · · -						
	KT-10	VER	e			
•			Ĭ			
	(RECORDED TO) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 µm]	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Field Density Tests (0.1 g or 0.01% of mass) KT-11 (0.1 g or 0.01% of mass) Field Density Tests (0.1 lb/ft³ [1 kg/m³] or 0.1% of optimum density) Moisture Tests (0.1 g or 0.01% of mass) KT-41 Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (KT-10	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of moss) Plasticity Tests (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Plasticity Tests (0.01 g or 0.01% of mass) Field Density Tests (0.1 g or 0.01% of mass) KT-11 ACI (0.1 g or 0.01% of mass) ACI (0.1 g or 0.01% of mass) Field Density Tests (0.1 g or 0.01% of mass) KT-11 ACI (0.1 g or 0.01% of mass) ACI (0.1 g or 0.01% of mass) CT-41 ACI	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] Sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) KT-10 ACI (0.1 g or 0.01% of mass) KT-11 ACI (0.1 g or 0.01% of mass) KT-13 ACI (0.1 lb/ft³ [1 kg/m³] or 0.1% of or KT-41 optimum density) Moisture Tests (0.1 g or 0.01% of mass) KT-11 ACI (0.1 g or 0.01% of mass) KT-11 ACI (0.1 g or 0.01% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm]	Samples & Tests (Note f) Samples & Tests (Note f)	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.01% of mass) Plasticity Tests (0.01 g or 0.01% of mass) C C C C C C C C C

TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
				(Note f)		
Γ	OIVISION 300	(continu	ed)			
	KT-2	VER	e			
- · · - · · · · · · · · · · · · · · · ·						
· ·	KT-10	VER	e			
	KT-2	VER			e	Minimum 1 per day.
	IZE O	1.00				1000 5 (200) 500 500 10
	KT-2	ACC			a	1000 ft (300 m), 500 TONS
						(500 Mg) or 500 yd ³ (500
sieve, of mass)						m^3).
Plasticity Tests	KT-10	ACI			a	1000 ft (300 m), 500 TONS
(0.01 g or 0.1% of mass)						(500 Mg) or 500 yd ³ (500
						m^3).
Moisture Tests	KT-11	ACI			e	/-
		1101				
	KT-13	ACI			a	1000 ft (300 m).
•	or KT-41					
	KT-11	ACI			a	1000 ft (300 m).
						,,
,	DIVISIO	N 400		•	•	
(See also	Division 1100 i	regarding	aggregat	es)		
Slump	KT-21	ACC			h	As needed to control
(0.25 in [5 mm])						product, min. 1 set of tests
						every 50 yd 3 (50 m 3).
						Select initial sample from
						first 2 or 3 loads and then
						on a random basis or as
						conditions indicate.
	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Moisture Tests (0.01 g or 0.01% of mass) Field Density Tests (0.1 lb/ft³ [1 kg/m³] or 0.1% of optimum density) Moisture Tests (0.1 g or 0.01% of mass) (See also	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) KT-10 (0.01 g or 0.01% of mass) KT-11 (0.1 g or 0.01% of mass) Field Density Tests (0.1 lb/ft³ [1 kg/m³] or 0.1% of optimum density) Moisture Tests (0.1 g or 0.01% of mass) KT-11 (0.1 g or 0.01% of mass) DIVISIO (See also Division 1100 g Slump KT-21	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) RT-10 ACI (0.01 g or 0.1% of mass) ACI (0.1 g or 0.01% of mass) Field Density Tests (0.1 lb/ft³ [1 kg/m³] or 0.1% of or KT-41 optimum density) Moisture Tests (0.1 g or 0.01% of mass) ACI (0.1 g or 0.01% of mass) BIVISION 400 (See also Division 1100 regarding Slump KT-21 ACC	RECORDED TO METHOD	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 µm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of No. 200 [75 µm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 µm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 µm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 µm] sieve, of mass) Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 µm] sieve, of mass) Plasticity Tests (0.01 g or 0.1% of mass) KT-10	SAMPLES & TESTS (Note f) DIVISION 300 (continued)

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DI	VISION 400	(continu	ed)		•	
PORTLAND CEMENT	Temperature	KT-17	ACC				
CONCRETE STRUCTURES	(1 °F [0.5 °C])						
AND MISCELLANEOUS							
CONSTRUCTION (continued)							
Sec. 401 and 717							
	Mass	KT-20	ACC				
	(0.1 lb [50 g])		. ~~				
	Air Content	KT-18,	ACC				
	(0.25%)	KT-19, or					
	Maintana in Anna anta	KT-20 KT-24	VER				
	Moisture in Aggregate (0.1 g or 0.01% of mass)	K1-24	VEK				
	Density of Fresh Concrete	KT-36	ACI			a	1 per 150 yd ² (150 m ²) for
	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3])$	K1-30	ACI			b	
	(0.1 lb/lt [1 kg/m])						thin overlays and bridge
	Permeability	KT-73 or	VER		1 per mix design per		deck wearing surfaces. Acceptance of contractor's
	(0.01%, KT-73; 10 coulomb,	AASHTO	VEK				mix design by KDOT.
	(0.01%, K1-73; 10 couloillo, AASHTO T 277)	T 277			project.		mix design by KDO1.
	Cylinders	KT-22 and	VER	k	Bridge Deck Only (all		
	(1 lbf [1 N], 0.1 in [1 mm], 1 psi	KT-76	LIC		classes except thin		
	[0.01 MPa])	7.0			overlay) Min. of 1 set of		
	[0.01 1.11 0]/				3 per pour or major mix		
					design change.		
					Thin Overlays and	1	
					Bridge Deck Surfacing		
					Min. of 1 set of 3 per		
					150 yd ² (150 m ²) per		
					placement or major mix		
					design change.		

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)	((Note f)		
•	DIV	VISION 400	(continue	ed)	(,		
PORTLAND CEMENT	Cylinders (continued)		VER	k	Drilled Shafts 1 set of 3		
CONCRETE STRUCTURES	(1 lbf [1 N], 0.1 in [1 mm], 1 psi	KT-76	, 210		per shaft minimum and 1		
AND MISCELLANEOUS	[0.01 MPa])				of 3 set per 100 yd ³ (100		
CONSTRUCTION (continued)					m^3).		
Sec. 401 and 717					Other Construction		
					(all classes) Min. of 1		
					set of 3 per project pour		
					or major mix design		
					change and one set of 3		
					per 100 yd ³ (100 m ³).		
					Waive the 1 of 3 set		
					minimum for pours of		
					less than 20 yd ³ (20 m ³)		
					that are non-critical		
					elements. (This includes		
					all structural concrete		
					not classified as bridge		
					deck wearing surface -		
					i.e. culverts, wash		
					checks, ditch lining,		
					bridge substructure,		
					hubguards, handrails,		
					etc.)		
					,		
LOW-CRACKING HIGH-	Slump	KT-21	ACC				For each placement: 1 per
PERFORMANCE CONCRETE	(0.25 in [5 mm])						load, for 1 st 3 loads, then 1
FOR STRUCTURES]						per 3 loads thereafter.
Special Provision 07-04003							per 5 founds increation.
	Temperature	KT-17	ACC				1 per load, measured at the
	(1 °F [0.5 °C])						point of discharge, and 1
							from each slump sample.
1							

CONSTRUCTION OR MATERIAL TYPE 2007 Std. Spec. (SS 2007)	TESTS REQUIRED (RECORDED TO)	TEST METHOD	CMS	CODE	VERIFICATION SAMPLES & TESTS (Note f)	CODE	ACCEPTANCE SAMPLES & TESTS
•	DI	VISION 400	(continu	ied)			
LOW-CRACKING HIGH- PERFORMANCE CONCRETE FOR STRUCTURES (continued) Special Provision 07-04003	Mass (0.1 lb [50 g]) Air Content (0.25%)	KT-20 KT-18 or KT-19	ACC ACC				1 per every 6 loads. For each placement: 1 per load, for 1st 3 loads, then 1 per 6 loads
	Cylinders (1 lbf [1 N], 0.1 in [1 mm], 1 psi [0.01 MPa])	KT-22 and KT-76	VER		1 set (2 groups of 5 cylinders) per pour or major mix design change, sampled from at least 2 loads evenly spaced throughout the pour. Minimum of 1 set per 100 yd ³ (100 m ³). Include in each group 3 cylinders cured as per KT-22 and 2 cylinders field cured as follows: Store the field cured cylinders on or adjacent to the structure. Protect the deck concrete and cylinders from the elements in as near a like manner as possible.		thereafter.
	Density of Fresh Concrete (0.1 lb/ft3 [1 kg/m3])	KT-36	ACI			a b	1 per 100 yd ³ (100 m ³) for thin overlays and bridge deck wearing surfaces.

CONSTRUCTION OR MATERIAL TYPE 2007 Std. Spec. (SS 2007)	TESTS REQUIRED (RECORDED TO)	TEST METHOD	CMS	CODE	VERIFICATION SAMPLES & TESTS (Note f)	CODE	ACCEPTANCE SAMPLES & TESTS
		DIVISIO					
PORTLAND CEMENT CONCRETE PAVEMENT Sec. 502 and 503	(See Mass (0.1 lb [50 g]) Temperature (1 °F [0.5 °C]) Slump (0.25 in [5 mm])	KT-21	ACC ACC	gaggregat	tes)		Mass, temperature, slump: As often as needed to control product. Min. of 1 set of tests per each half day and/or per 4000 yd ² (4000 m ²). Air Content: Refer to SS
	Air Content (0.25%)	KT-18, KT-19, or KT-20	ACC		Determine the air loss due to paving operations once in the AM and once in the PM. Determine the difference between the air content from concrete sampled before the paver, and concrete sampled behind the paver.	2	2007 401.10 e. For all mainline paving, test the concrete at the beginning of the day's operation and approximately every 2 hours thereafter for air content. For all other slipformed pavement, test for air content at the beginning of a day's operation and approximately every 4 hours thereafter. Test hand placements for air content at least once daily.
	Beams (1 psi [1 kPa])	KT-22 & KT-23	VER	a	1 set of 3 on initial pour. 1 set of 3 per week and/or major mix design change.		1 set of 3 as required for opening to traffic. See SS 502.3i.(3)

CONSTRUCTION OR MATERIAL TYPE 2007 Std. Spec. (SS 2007)	TESTS REQUIRED (RECORDED TO)	TEST METHOD	CMS		VERIFICATION SAMPLES & TESTS (Note f)	CODE	ACCEPTANCE SAMPLES & TESTS
	D	IVISION 500	(continu	ied)			
PORTLAND CEMENT CONCRETE PAVEMENT (continued)	Profilograph	KT-46	ACI	e		b	Testing by contractor. Results reviewed by KDOT.
Sec. 502 and 503	Moisture in Aggregate (0.1 g or 0.01% of mass)	KT-24	VER	a	Minimum of 1 in AM and 1 in PM during concrete mixing operations.		
	Thickness - Cored by District or Contractor (0.1 in [1 mm])	KT-49	NA				See SS 2007 section 502.3m. Submit cores to MRC.
	Density of Fresh Concrete (0.1 lb/ft ³ [1 kg/m ³])	KT-38	ACI			a b	Initially, 1 complete transverse profile. Thereafter, 5 per day.
	Air Void Analyzer (0.0001 in [0.001 mm])	KT-71					Prequalification of mix required as per SS 2007 sec. 401.10.
							1 test at the start of paving and 1 test during the second week of production. Thereafter, at the discretion of the Engineer.
	Permeability (0.01%, KT-73; 10 coulomb, AASHTO T 277)	KT-73 or AASHTO T 277	VER		1 per mix design per project.		Acceptance of contractor's mix design by KDOT.
		DIVISIO		-		-	
HMA (Plant Mix) Sec. 603, 604, 611, 614, & 1103	(See also I	Division 1100 ı	regarding	g aggregate	es)		
Individual Aggregates	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 µm] sieve, of mass)	KT-2	ACI VER	e		b h i	1 per lot.

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DI	VISION 600	(continu	ed)			
HMA (Plant Mix) (continued)							
Sec. 603, 604, 611, 614, & 1103							
Individual Aggregates (continued)	Clay Lumps and Friable Particles in	KT-7		e			
	Aggregate						
	(0.1 g or 0.01% of mass)						
	Shale or Shale-Like Materials in	KT-8		e			
	Aggregate						
	(0.1 g or 0.01% of mass)						
	Percent Crushed Particles in	KT-31	ACI	b	500 TONS (500 Mg).		
	Crushed Gravel			h			
	(0.1%)						
	Sticks in Aggregate	KT-35		e			
	(0.01% of mass)						
	Uncompacted Void Content of Fine	KT-50	VER	e			
	Aggregate						
	(0.1%)						
Mineral Filler Supplement	Sieve Analysis of Aggregate	KT-2	ACC			a	250 TONS (250 Mg).
	(1%, 0.1% for No. 200 [75 μm]						
	sieve, of mass)						
	Plasticity Tests	KT-10	ACI			c	250 TONS (250 Mg).
	(0.01 g or 0.1% of mass)		VER			h	
Combined Aggregate	Sieve Analysis of Aggregate	KT-2	ACI				1 per sublot.
	(1%, 0.1% for No. 200 [75 μm]						
	sieve, of mass)						
	Sand Equivalent Test	KT-55	ACI			h	1 per sublot. (District
	(1%)		VER				tested)
	Moisture Tests	KT-11	VER	a	Minimum of 1 per day.		
	(0.1 g or 0.01% of mass)					<u> </u>	

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DI	VISION 600	(continu	ied)			
HMA (Plant Mix) (continued)							
Sec. 603, 604, 611, 614, & 1103							
HMA Mixtures (Field Lab)	Density						
	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$				Minimum of 1 set per		
	optimum density)	KT-14	VER	a	day.		
	Voids				day.		
	(0.01%)						
	Moisture Tests	KT-11	ACI			a	Minimum of 1 per day.
	(0.1 g or 0.01% of mass)						
Asphalt Binder	Binder Sampling	KT-26	VER	e	1 sample per 3 loads.		1 per project.
	-			b			
HMA Mixtures (District Lab)	Density						
	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$						
	optimum density)						
	Voids	1777 1 4					
	(0.01%)	KT-14			Minimum of 1 set per		
	Stability						
	(1 lbf [1 N])		VER	a	project. (District		
	Flow				molded)		
	(0.01 in [0.25 mm]) Gradation	KT-34					
	(1%, 0.1% for the No. 200 [75 μm]	K1-34					
	sieve, of mass)						
	Asphalt Content	KT-57					
	(0.1 g or 0.01%)	111 5 /					
BM-Mixes (Field Lab)	Theoretical Maximum Specific	KT-39	VER		1 per lot with a		
, ´	Gravity of Asphalt Paving Mixtures				minimum of 1 per day.		
	$(G_{mm} = 0.001)$						
	, , , ,						
	Moisture Tests	KT-11	ACI			a	Minimum of 1 per day.
	(0.1 g or 0.01% of mass)						

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DIV	VISION 600	(continu	ed)	•		
HMA (Plant Mix) (continued)							
Sec. 603, 604, 611, 614, & 1103							
BM-Mixes (District Lab)	Air Voids	KT-15 and					
	$(V_a = 0.01\%; G_{mb} = 0.001)$	KT-58					
	Theoretical Maximum Specific	KT-39					
	Gravity of Asphalt Paving Mixtures						
	$(G_{mm} = 0.001)$				Minimum of 1 set per		
			VER	j	project. (District		
	Gradation	KT-34			molded)		
	(1%, 0.1% for the No. 200 [75 μm]						
	sieve, of mass)						
	Asphalt Content	KT-57					
	(0.1 g or 0.01%)						
Federal Aid Projects (Field or	Asphalt Content	KT-57	VER		Minimum of 1 in AM		
District Labs)	(0.1 g or 0.01%)				and 1 in PM, or 1 per		
					1000 TONS (1000 Mg).		
Completed Road Work	Field Density - Cores	KT-15	ACI			a	Shoulders
•	$(G_{mb} = 0.001; 0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or }$					b	1 set per shoulder per mile
	0.1% of optimum density)						(1.5 km) per lift.
Field Density Tests	0.176 of optimum density)						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
(Use Cores, Nuclear Density, or the	Note: If specified [plan] lift						Surf. & Base Courses
Optimum Rolling Procedure method	thickness is 1.5" (40 mm) or less,						1 set per lane per mile (1.5
on all HMA roadway or shoulder	none required.						km) per lift.
construction)	mone required.						' •
							Min_of 1 per day

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DI	VISION 600	(continu	ed)			
HMA (Plant Mix) (continued)							
Sec. 603, 604, 611, 614, & 1103			.	•	_		
Completed Road Work	Field Density - Nuclear Density	KT-32	ACI			a	<u>Shoulders</u>
(continued)	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$					b	3 locations per shoulder per
	optimum density)						mile (1.5 km) per lift.
Field Density Tests	Note: If specified [plan] lift						Surf. & Base Courses
(Use Cores, Nuclear Density, or the	thickness is 1.5" (40 mm) or less,						3 locations per lane per mile
	none required.						(1.5 km) per lift.
on all HMA roadway or shoulder							
construction)	Field Density - Optimum Rolling	SS 2007	ACI			a	Min_of 1 per day 1 in AM and 1 in PM.
	Procedure	602.4e.(6)	ACI			h	I ili Aivi alid I ili I ivi.
	(0.1 lb/ft ³ [1 kg/m ³] or 0.1% of	002.10.(0)					
	optimum density)						
	Note: If specified [plan] lift						
	thickness is 1.5" (40 mm) or less.						
	, , , , , , , , , , , , , , , , , , , ,						
	Profilograph	KT-46	ACI	e		b	Testing by contractor.
							Results reviewed by KDOT.
Commercial Grade	Sieve Analysis of Aggregate	KT-2					1 test for each 500 ton lot or
	(1%, 0.1% for No. 200 [75 μm]						fraction thereof. Also see
	sieve, of mass)						SS 2007 section 611.2d.
SURFACE RECYCLE	Asphalt Rejuvenating Agent	KT-26	VER		See section 5.7.1.5.2. of		
Section 605					this manual.		
	Depth of Recycling	KT-47	ACI			a	1 per hour of operation.
	(0.01 ft [5 mm])		J	<u> </u>			<u> </u>

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DI	VISION 600	(continu	ed)			
SURFACE RECYCLE (continued)	Field Density - Cores	KT-15	ACI			a	1 set per lane per mile (1.5
Section 605	$(G_{mb} = 0.001; 0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or}$						km) per lift.
	0.1% of optimum density)						
							Minimum of 1 per day.
Field Density Tests	Note: If specified [plan] lift						
(Use Cores, Nuclear Density Gauge,	thickness is 1.5" (40 mm) or less,						
or the Optimum Rolling Procedure	none required.						
method on all HMA roadway or	Field Density - Nuclear Density	KT-32	ACI			a	3 locations per lane per mile
shoulder construction.)	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$						(1.5 km) per lift.
	optimum density)						
							Minimum of 1 per day.
	Note: If specified [plan] lift						
	thickness is 1.5" (40 mm) or less,						
	none required.	aa a aa	A CIT				11. 126 11. 226
	Field Density - Optimum Rolling	SS 2007	ACI			a	1 in AM and 1 in PM.
	Procedure	602.4 e. (6)					
	$(0.1 \text{ lb/ft}^3 [1 \text{ kg/m}^3] \text{ or } 0.1\% \text{ of}$						
	optimum density)						
	N . 10						
	Note: If specified [plan] lift						
COVER MATERIAL FOR	thickness is 1.5" (40 mm) or less. Sieve Analysis of Aggregate	KT-2	ACC			a	250 TONS (250 Mg) or 250
ASPHALT SEAL	(1%, 0.1% for No. 200 [75 μm]	IX 1 - 2	ACC			a	yd^3 (250 m ³).
Sec. 608, 609, 610, & 1108	sieve, of mass)						ya (250 m).
Sec. 600, 602, 610, & 1100	Material Passing the No. 200 (75	KT-3	ACI			a	250 TONS (250 Mg) or 250
	μm) Sieve by the Wash Method						yd^{3} (250 m ³).
	(0.1% of mass)						yu (230 m).
	Clay Lumps and Friable Particles in	KT-7				e	
	Aggregate						
	(0.1 g or 0.01% of mass)						
	Shale or Shale-Like Materials in	KT-8				e	
	Aggregate						
	(0.1 g or 0.01% of mass)						

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	D	IVISION 600	(continu	ed)			•
COVER MATERIAL FOR	Moisture Tests	KT-11	ACI			e	
ASPHALT SEAL (continued)	(0.1 g or 0.01% of mass)						
Sec. 608, 609, 610, & 1108	Sticks in Aggregate	KT-35				e	
	(0.01% of mass)						
		DIVISIO					
	(See also I	Division 1100		aggregate			
REINFORCING STEEL BARS			VER		1 per month per plant.		
Sec. 711, 1601 & 1602							
PAINT		KT-28	VER		1 per source per project.		See Standard
Sec. 712, 1800							Specifications.
POST-TENSIONING	Cylinders for grout	KT-22	VER				3 cylinders per truck load.
(Haunched Slab Bridges)	(1 lbf [1 N], 0.1 in [1 mm], 1 psi						
Sec. 716	[0.01 MPa])						
	Infrared Spectroscopy		VER		Sample 1 quart and send		
					to MRC.		
SLIPFORMING CONCRETE							
BARRIER FOR BRIDGES							
Sec. 720							
Combined Aggregate	Sieve Analysis of Aggregate	KT-2	ACI				1 per bridge.
	(1%, 0.1% for No. 200 [75 μm]						
	sieve, of mass)						
Concrete	Air Content	KT-19	ACC				As needed to control
	(0.25%)						product, minimum 1 set of
							tests every $50 \text{ yd}^3 (50 \text{ m}^3)$.
	Slump	KT-21	ACC				As needed to control
	(0.25 in [5 mm])						product.

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DI	VISION 700	(continu	ied)			
MULTI-LAYER POLYMER							
CONCRETE OVERLAY							
Sec. 729 and 1705							
Polymer Binder	Infrared Spectroscopy		VER		Sample 1/2 pint of each		
					lot of each component		
					and send to MRC 1		
					week prior to placement.		
<u> </u>	N	IZTD 11	A CT				
Aggregate	Moisture Tests	KT-11	ACI				
Duamanad Duidaa Daala Cuufaaa	(0.1 g or 0.01% of mass) Moisture in Deck	ASTM					Duianta angliantian af
Prepared Bridge Deck Surface	Moisture in Deck						Prior to application of overlay.
Overlayed Bridge Deck	Surface Preparation and Adhesion	D 4263 KT-70					Test by contractor, KDOT
Overlayed Bridge Deck	(10 lbf [10 N] or 10 psi [0.1 MPa])	K1-70					to witness. Once every
							span or every 300 yd ² (300
							1 2 3 1
							m ²) of prepared deck
							surface, whichever is
							smaller.
	(0 1 0	DIVISIO					
		ivision 1100		g aggregate	es)	1	I TOO TOO YOU (TOO) YOU
STONE FOR RIPRAP WASH	Sieve Analysis of Aggregate	KT-2	ACC			a	500 TONS (500 Mg) or 500
CHECKS & OTHER MISC.	(1%, 0.1% for No. 200 [75 μm]						yd ³ (500 m ³). Tests to be
USES	sieve, of mass)						done at production site.
Sec. 815, 816, 829, & 1114							
UNDERDRAIN AGGREGATE	Sieve Analysis of Aggregate	KT-2	ACC			a	250 TONS (250 Mg).
Sec. 822 and 1107	(1%, 0.1% for No. 200 [75 μm]						
	sieve, of mass)	YYTT O	1.00	1			
	Material Passing the No. 200 (75	KT-3	ACC				
	μm) Sieve by the Wash Method						
	(0.1% of mass)	<u> </u>					1

CONSTRUCTION OR MATERIAL TYPE 2007 Std. Spec. (SS 2007)	TESTS REQUIRED (RECORDED TO)	TEST METHOD	CMS	CODE	VERIFICATION SAMPLES & TESTS (Note f)	CODE	ACCEPTANCE SAMPLES & TESTS
	DI	VISION 800	(continu	ed)			
UNDERDRAIN AGGREGATE (continued) Sec. 822 and 1107	Clay Lumps and Friable Particles in Aggregate (0.1 g or 0.01% of mass)	KT-7				е	
	Shale or Shale-Like Materials in Aggregate (0.1 g or 0.01% of mass)	KT-8				e	
	Sticks in Aggregate (0.01% of mass)	KT-35				e	
		DIVISIO	N 1100				
INDIVIDUAL AGGREGATE QUALITY (Applies to all aggregates)			OFQ VER		Aggregate quality only - One sample per source per year per district.		Prior approval required.
PAVEMENT (Class I Aggregates)			QPS		See 5.6.5.3.4.2 of this manual.		
AGGREGATE FOR CONCRETE Sec. 1102	Sieve Analysis of Aggregate (1%, 0.1% for No. 200 [75 μm] sieve, of mass)	KT-2	ACI VER	e	As needed to control aggregate used in accepted stockpiles.	a	250 TONS (250 Mg).
	Material Passing the No. 200 (75 μm) Sieve by the Wash Method (0.1% of mass)	KT-3	ACI VER	e	As needed to control aggregate used in accepted stockpiles.	a	250 TONS (250 Mg).
	Unit Weight – lightweight aggregates only (0.1 lb [50 g] or 0.1% of mass)	KT-5	ACI			e	
	Clay Lumps and Friable Particles in Aggregate (0.1 g or 0.01% of mass)	KT-7				e	
	Shale or Shale-Like Materials in Aggregate (0.1 g or 0.01% of mass)	KT-8				e	
	Sticks in Aggregate (0.01% of mass)	KT-35				e	

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
	DIV	ISION 1100	(continu	ed)		•	
AGGREGATE FOR CONCRETE	Coal	AASHTO				e	
(continued)		T 113					
Sec. 1102	Organic Impurities	AASHTO				e	
		T 21					
AGGREGATE FOR	Sieve Analysis of Aggregate	KT-2	ACC			a	500 TONS (500 Mg).
STRUCTURE AND PIPE	(1%, 0.1% for No. 200 [75 μm]						
BACKFILL	sieve, of mass)						
Sec. 204, 817, 1107	Material Passing the No. 200 (75	KT-3	ACC				
	μm) Sieve by the Wash Method						
	(0.1% of mass)						
	Clay Lumps and Friable Particles in	KT-7				e	
	Aggregate						
	(0.1 g or 0.01% of mass)						
	Shale or Shale-Like Materials in	KT-8				e	
	Aggregate						
	(0.1 g or 0.01% of mass)						
	Sticks in Aggregate	KT-35				e	
	(0.01% of mass)						
BACKFILL FOR MSE WALLS	Sampling Aggregates	KT-1					Send representative samples
Sec. 1107							to the MRC (Attn: Geot.
							Eng.) for acceptance prior
							to placement of material on
							project.
	Sieve Analysis of Aggregate	KT-2	ACI				Crushed Stone – 1000
	(1%, 0.1% for No. 200 [75 μm]						TONS (1000 Mg).
	sieve, of mass)						Sand/Gravel – 500 TONS
							(500 Mg).

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS		VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD	CIVID	CODE	SAMPLES & TESTS	CODE	SAMPLES & TESTS
2007 Std. Spec. (SS 2007)	(RECORDED 10)	METHOD			(Note f)		
2007 Std. Spec. (SS 2007)	DIV	I ISION 1100	(00-4		(1 tote 1)		
CLIDE LOE OD DECLIDE LOING	-			ieu)		Ī	500 FONG (500 N)
SURFACE OR RESURFACING	Sieve Analysis of Aggregate	KT-2	ACC			a	500 TONS (500 Mg).
AGGREGATE	(1%, 0.1% for No. 200 [75 μm]						
Sec. 1111 & 1112	sieve, of mass)						
	Material Passing the No. 200 (75	KT-3	ACI			a	500 TONS (500 Mg).
	μm) Sieve by the Wash Method	KI 3	7101			lu lu	300 TONS (300 Mg).
	(0.1% of mass)						
	Clay Lumps and Friable Particles in	KT-7				e	
	Aggregate						
	(0.1 g or 0.01% of mass)						
	Moisture Tests	KT-11	ACI				
	(0.1 g or 0.01% of mass)						
	Sticks in Aggregate	KT-35				e	
	(0.01% of mass)						
DRAINABLE BASE	Sieve Analysis of Aggregate	KT-2	ACI			a	Minimum of 1 in AM and 1
Special Provisions	(1%, 0.1% for No. 200 [75 μm]						in PM, or 1 per 500 TONS
	sieve, of mass)						(500 Mg).
		DIVISION	N 1200				
PERFORMANCE GRADED		KT-26	VER	a	See section 5.7.1.4. and		
ASPHALT BINDER, CUTBACK					5.7.1.5.2 of this manual,		
ASPHALT, EMULSIFIED					and the Standard		
ASPHALT, AND					Specifications.		
REJUVENATING AGENTS							
Sec. 1201, 1202, 1203, 1204, &							
1205							
		DIVISION	V 1400				
LIQUID MEMBRANE	Infrared Spectroscopy		VER		2 per product per year		
FORMING COMPOUND					per district.		
Sec. 1405							

CONSTRUCTION OR	TESTS REQUIRED	TEST	CMS	CODE	VERIFICATION	CODE	ACCEPTANCE
MATERIAL TYPE	(RECORDED TO)	METHOD			SAMPLES & TESTS		SAMPLES & TESTS
2007 Std. Spec. (SS 2007)					(Note f)		
		DIVISION	N 1500			•	
MATERIALS FOR FILLING	Sampling Joint Compound Material	KT-27					Each lot.
AND SEALING JOINTS IN PIPE							
Sec. 1505							
SAND FOR BRIDGE JOINT	Sieve Analysis of Aggregate	KT-2					Test prior to use.
GAP REPAIR SYSTEM	(1% of mass)						
		DIVISION	N 1600		•		,
REINFORCING STEEL BARS			VER		1 per month per plant.		
Sec. 1601 & 1602							
WIRE FABRIC			VER		1 plant per district per		
Sec. 1603					year.		
		DIVISION	N 2000				
PORTLAND CEMENT,		KT-29	VER		Cement: See section		See section 5.7.9 of this
BLENDED HYDRAULIC					5.7.9 of Part V, and the		manual, and Standard
CEMENT, FLY ASH FOR USE					Standard Specifications.		Specifications.
IN CONCRETE							
Sec. 2001, 2004, & 2005					Fly Ash: Minimum of 1		
					semi-annual sample per		
					source per concrete		
					project.		
		DIVISION	N 2200				
PAVEMENT STRIPING		21,10101	. 2200				
Cold Plastic			VER		Except for symbols, 1	Ī	
Sec. 2207			ACC		on each lot.		
Patterned Cold Plastic			VER		Except for symbols, 1		
Sec. 2208			ACC		on each lot.		
High Durability			VER		Except for symbols, 1		
Sec. 2209			ACC		on each lot.		

CONSTRUCTION OR MATERIAL TYPE 2007 Std. Spec. (SS 2007)	TESTS REQUIRED (RECORDED TO)	TEST METHOD	CMS	CODE	VERIFICATION SAMPLES & TESTS (Note f)	CODE	ACCEPTANCE SAMPLES & TESTS
		IVISION 2200) (continu	ued)			
PAVEMENT STRIPING (cont	inued)						
Thermoplastic Sec. 2211	Field Sampling of Thermoplastic Pavement Marking Material	KT-30	VER ACC		1 from 1 lot per color per project.		
					2 for each type of bead.		
Preformed Thermoplastic Sec. 2212			VER ACC		Except for symbols, 1 on each lot.		
Sprayed Thermoplastic Sec. 2213	Field Sampling of Thermoplastic Pavement Marking Material	KT-30	VER ACC		1 from 1 lot per color per project.2 for each type of bead.		
Epoxy Sec. 2214			VER ACC		1/2 pint per each component lot per color per project. 2 for each type of bead DO NOT MIX!		
Traffic Line Paint Sec. 2215			VER ACC		2 samples per color per project. 2 for each type of bead		

<u>CODE</u> <u>INSTRUCTION</u>

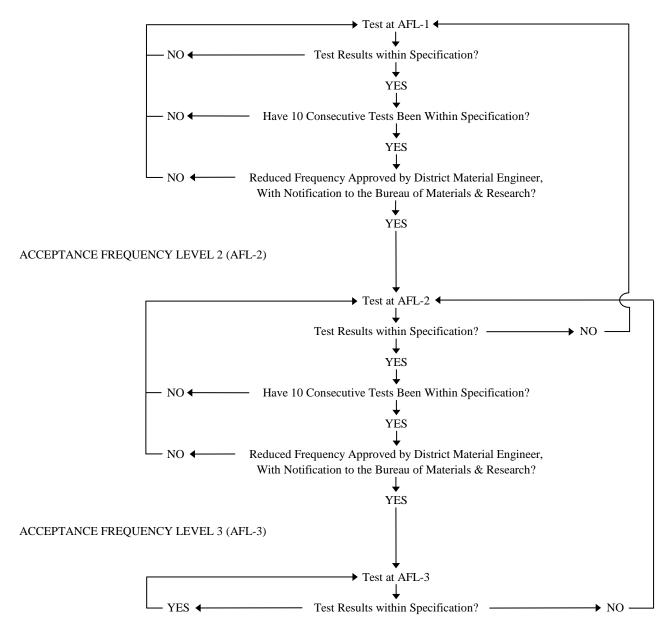
- a Normal operation. Minimum frequency for exceptional conditions may be reduced by the District Materials Engineer on a project basis. Written justification shall be made to the Chief of the Bureau of Materials & Research and placed in the project documents. (Multi-Level Frequency Chart [This appendix, page 25] or other.)
- b Applicable only when specifications contain those requirements.
- c If, for a given project, no Plastic Index results of ten (10) consecutive tests are closer than 1 Plastic Index to the specifications limit, the specified testing frequency may be reduced by fifty percent (50%). When operating at a reduced testing frequency, should any two (2) consecutive Plastic Index results exceed the test limit results required for reduced testing frequency, testing shall be resumed at the original specified frequency. The original specified testing frequency shall be resumed should any one test result exceed the specification limits. Following a return to the original specified testing frequency, the reduced frequency may be resumed provided the original criteria for reduced frequency is met.
- d "Type Insp" must = "ACC" when assignment of a pay quantity is being made. "ACI" when recording test values for additional acceptance information.
- e Engineer's discretion. Frequency of tests shall be agreed upon by the Field Engineer and the District Materials Engineer. Frequency will be governed by field conditions. Written documentation of the agreed upon testing frequency shall be included in the project records.
- f Verification sampling and testing are conducted by Department personnel to monitor reliability of certified test results or certifications of specification conformity or to check adequacy of mix design.
- g For determining moisture content of a material KT-43, "Moisture Content of Asphalt Mixtures or Mineral Aggregates Microwave Oven Method", can be used in conjunction with KT-2, KT-3, KT-4, KT-8, KT-12, KT-13, KT-14, KT-34, and KT-48.
- h Initial frequency. Frequency may be reduced on a project basis, by authority of the District Materials Engineer, upon continued satisfactory and uniform production. Authorization for reductions in testing frequency shall be documented in the project records.
- i On those mix designations which contain a natural sand requirement and/or an uncrushed minus #200 (75 µm) mineral filler requirement, individual aggregates and mineral filler supplements shall be sampled from the cold feed and tested.
- j The District Laboratory will perform additional testing, as needed, to determine the recommended asphalt content for the asphalt mix.
- k Standard 28 day compressive strength.

GENERAL NOTES

- All sampling and testing frequencies listed are minimums. Additional or other tests will be conducted, as required, to control the work.
- Frequencies are based on two lane roadways. For four or more lane roadway construction, double the frequencies shown per unit length.
- All aggregate acceptance tests are to be conducted at the point of usage except for Stone for Riprap, Wash Checks, and Other Miscellaneous Uses in Division 800.
- For the Construction Management System (CMS), Acceptance Sampling and Tests have been divided into two sections. Items called "ACC" will be Acceptance Tests and will have a quantity assigned. Items called "ACI" will be Acceptance Information Tests and they will normally have a quantity assigned, but not for payment. "ACC" tests make the assignment of tested materials to the contract or mix plant.
- For a better explanation of metric (SI) units, see section 5.9, "Sampling and Test Methods Forward", of this manual.

MULTI-LEVEL SAMPLING FREQUENCY CHART

ACCEPTANCE FREQUENCY LEVEL 1 (AFL-1)



Lot size Definitions -

Acceptance Frequency Level 1 (AFL-1) – Maximum Lot Size as Specified in Sampling and Testing Frequency Chart (This appendix, pages 1 through 22).

Acceptance Frequency Level 2 (AFL-2) – Two times AFL-1.

Acceptance Frequency Level 3 (AFL-3) – Four times AFL-1.

Note: AFL-2 and AFL-3 must be approved by the Bureau of Materials & Research. See Code "a" on page 23 of this appendix.