SECTION JUZ SUF ENFAVE ASFINALTIC CONCILETE MIXTURES
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MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.		TIME	REMARINO
FOR PROJECTS	S. OR SEPARAT	E LOCATION		PROJECT.		SS THAN 250 T	ONS. TH	JMF. MATER	RIALS, AND F	PLANT AND PAVING
OPERATIONS S	HALL BE SATIS	SFACTORY TO	ENGINEE	R. SEE SUB	SECTION 502.	14 FOR FURTHE	ER DETAI	LS.		
ADDITIVES	Anti-Stripping	502.02 1002.02(a) Mat. Lab	Prelim Source Approval	Dist. Lab S 612	1/batch or storage tank	1 pt friction top can			10 days	(QPL 57)
		502.02 1002.02(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment/ plant*	1 pt friction top can	CD 1 & 7		10 days	(QPL57) *Sample when not accompanied by CD or questionable.
	Hydrated Lime	502.02 1018.03(a) Mat. Lab	Accept.	Proj. Engr. S 102	1/shipment*		CD 1 & 7		10 days	(QPL 34) *Sample only if guestionable.
AGGREGATES	Combined Aggregates (Moisture Content)	503.03(c) Contractor	Quality Control	Contractor S 101	1/day/plant	1 gal suitable container				
	All Aggregates	502.02 1003.06(a)(1) Dist. Lab	Verif.	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack			5 days	(QPL 2) Bulk Specific Gravity G _{sb} .
	Coarse Aggregate (+ No. 4)	502.02 1003.06(a)	Verif.	Proj. Engr. S101	1/source/ plant	1 full sample sack			5 days	CAA & Flat and Elongated
	Fine Aggregate (- No. 4)	502.02 1003.06(a)(2) Dist. Lab	Verif.	Proj. Engr. S 101	1/source/ plant	1 full sample sack			5 days	Sand Equivalent and Fine Aggregate Angularity
	Natural Sand	502.02 1003.06(a)(3) Dist. Lab	Verif.	Proj. Engr. S 101	1/source/ plant	1 full sample sack			5 days	Sand equivalent testing.
	Reclaimed Asphaltic Pavement (RAP)	502.02(c)(2) 1003.06(a)(5) Dist. Lab	Verif.	Proj. Engr. S 101	1/stockpile	3 full sample sacks				% AC, % crushed and gradation, Effective Specific Gravity G _{se} .
ASPHALT MIX RELEASE AGENT		1018.25 503.13 Proj. Engr.	Accept.*							(QPL 25) *Visual inspection for performance by Proj. Engr.

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont'd

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE	Anti-Strip Additive, %	502.02(b)(2) Proj. Engr.	Accept.	Proj. Engr. S 605	1/half lot	*				*% AS from meter.
(PLANT)	Asphalt Cement, %	502.02(a) Proj. Engr.	Accept.	Proj. Engr. S 605	1/half lot	*				*% AC from meter.
	Gyratory Specimens	502.03 Contractor	Design	Contractor S 203	1set/JMF	6 briquettes/ set				Results submitted with JMF.
M S (() S	Moisture Sensitivity (Lottman) (Tensile Strength Ratio)	502.04 Contractor	Vaild.	Contractor S 203	1set/JMF	6 briquettes/ set				Sampled on first production day after validation.
	Gyratory Specimens	502.05 Contractor	Quality Control	Contractor S 203	2/sublot					Aged or unaged N _{max} .
	(Volumetric)	502.06 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot					Aged N _{design} .
		502.06 Dist. Lab	Verif.	Proj. Engr.	1/lot	suitably wrapped			5 days	Shall be acceptance samples representing each lot of plant operation.
		502.06(b) Dist. Lab	IA	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
	Job Mix Formula (JMF)	502.03 Contractor	Design		1/mix type				7 days	Contractor shall submit to the Dist. Lab Engr. the proposed job mix formula with supporting design data. Approval is required prior to starting work.
		502.04 Contractor & Proj. Engr.	Vaild.	Contractor & Proj. Engr.	1/JMF					*5 samples on 1st day's production or max. 2000 tons for validation.
	Loose Mixture (Theoretical Maximum	502.05 Contractor	Quality Control	Contractor S 203	2/sublot	suitable sampling bucket				Aged or unaged samples. May use 1 QA in lieu of 1 QC.
	Specific Gravity) G _{mm}	502.06 Proj. Engr.	Accept.	Proj. Engr. S 203	1/sublot	suitable sampling bucket				
		502.06 Dist. Lab	Verif.	Proj. Engr. S 203	1/lot	suitable sampling bucket				
		502.06 Dist. Lab	IA	Dist. Lab S 203		SEE INDE	EPENDEN	T ASSURANC	E PROGRAN	I S 701.

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont	'd)

		REF.	PURP.	SAMPLED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL	
				BY	FREQ.			QUANTITY	HANDLING	
MAIE	RIAL	TESTED							TIME	REMARKS
		BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (Plant)	Loose Mixture (Asphalt Coating)	503.08 Contractor	Design/ Quality Control	Contractor S 203	*	1 gal friction top can				*Sample only if coating is questionable.
(Cont'd)		503.08 Proj. Engr.	Accept.	Proj. Engr. S 203	*	1 gal friction top can			1 day	*Sample only if coating is questionable.
	Loose Mixture (Gradation, % AC and % Crushed	502.05 Contractor	Quality Control	Contractor S 203 & S 605	1/sublot*	suitable sampling bucket				*Used for PWL calculations
	Loose Mixture (Moisture Content)	502.05 Contractor	Design/ Quality Control	Contractor S 203	1/lot	1 gal friction top can				
	Loose Mixture* (Temperature)	503.08 Contractor	Quality Control	Contractor S 605	2/sublot					*Temperature of mixture at discharge chute.
		502.03 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot				1 day	*Temperature of mixture in truck at plant.
	Density	502.11(a) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	3/sublot*	4 or 6 in. diameter core			1 day	* For different mix uses take 1 additional core/mix use. For validation lots take 1 core/validation sublot, 5 total.
		502.11(a) Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	1/sublot	4 or 6 in. diameter core			5 days	1 per sublot of the acceptance samples.
		502.11(a) Dist. Lab	IA	Dist. Lab S 203		SEE INDE	EPENDEN	IT ASSURANC	E PROGRAM	1 S 701

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont

		REF.	PURP.	SAMPLED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL	
MATE	RIAI			BY	FREQ.			QUANTITY	HANDLING	REMARKS
		TESTED							TIME	
		BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC	Longitudinal	502.10(b)	Quality	Contractor	each					Applies to travel lane
CONCRETE	Surface	Contractor	Control	TR 644	wheelpath					wearing and binder. Applies
(IN-PLACE)	Tolerance				segment					to shoulder, parking, airport
										runway and taxiway wearing.
		502.11(b)	Accept.	Contractor,	each sublot				2 days	Applies to travel lane
		Contractor		Observed						wearing and center two
		observed by		by						lanes for airports.
		Proj. Engr.		Proj. Engr.						
		502.11(b)(2)	Accept.	Contractor.	each sublot				1 davs	Applies to final wearing on
		Contractor		Observed						shoulders. Max 110 IRI.
		observed by		by						
		Proj. Engr.		Proj. Engr.						
				TR 644						
	Loose Mixture*	502.08	Accept.	Proj. Engr.	2/sublot					*At paver hopper or on
	(Temperature)	Proj. Engr.		5 605						roadway.
	Transverse	502.10(b)	Quality	Contractor	2/day*					*As needed to control project
	Surface	Contractor	Control	S 605						within spec. requirements.
	Tolerance,									
	Cross Slope	502.11(b)	Accept.	Proj. Engr.	1/day*				1 day	*Test at selected locations
	and Grade	Proj. Engr.		S 605						for conformance to specs.
	Thickness &	502.12	Accept.	Dist. Lab	*			300 lin ft per	3 days	Applies to mixtures specified
	Width	Dist. Lab		TR 602				location		for payment on a cubic yard
										or square yard basis.

MAT	ERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	T. SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC MATERIAL	Asphalt Cement	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7		5 days	(QPL 41) Non Self Certified. Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified. DOTD results use for approval.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7		2 hrs during working hours	(QPL 41) Self Certified. Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified, and supply CA to Mat. Lab along with 1 qt sample for verification testing. Supplier results used for approval.
		1002 Proj. Engr.	Accept.				CD 8 & 9		5 days	(QPL 41) One (1) CD to accompany each transport.
		1002 Dist. Lab	Verif.	Proj. Engr. S 201	1/plant working tank/day of production	1 qt friction top can			5 days	(QPL 41) Test original binder DSR, including phase angle. If sample does not meet criteria, the plant will be investigated and the Dist. Lab will notify the Proj. Engr., the HMA producer and the Mat. Lab. Rotational viscosity to be tested 1/working tank/week for information. A record of results will be kept on file.
		1002 Mat. Lab	Verif.	Proj. Engr. S 201	1/working tank	1qt friction top can			10 days	Sample after 72 hour shut down period.
		1002 Mat. Lab	Verif.	Proj. Engr. S 201	1 transport/ project/ grade	1 qt friction top can			10 days	(QPL 41) Send directly to Materials Lab for comparison to refinery sample.
	Curing				SEE	SECTION 506 C	F THIS M	IANUAL		
	Prime Coat				SEE	SECTION 505 C				
1	I AUN UUAL				JEE	5LG HON 504 U		ANUAL.		

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont'd)

SECTION 504 ASPHALTIC TACK COAT

		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	
MATE	RIAL	TESTED							TIME	REMARKS
		BY		METHOD		CONTAINER	DISTR.			
THIS SECTION	IS TO BE USED	AS A GUIDE I	FOR OTHE	R ITEM NUM	BERS WHEN RI	EFERENCE IS I	MADE TO	SECTION 504	OF THIS MA	NUAL. THERE ARE NO
PAY ITEMS UN	DER SECTION 5	04.								
ASPHALTIC	Emulsified	1002	Prelim.	Refinery	1/storage tank	1 gal plastic	CA		5 days	(QPL 41) Non Self
TACK COAT	Asphalt	Mat. Lab	Source	S 201		bottle	7			Certified Must have tank
			Approval							approved by Mat. Lab prior
										to shipping whenever
										asphalt cement is added or
										modilied.
		1002	Prelim.	Refinery	1/supplier tank	1 gal plastic	CA		2 hrs during	(QPL 41) Self Certified
		Refinery	Source	S 201	whenever	bottle	7		working	*Supplier, shall sample and
			Approvai		asphalt is				nours	test each tank in accordance
					added to tark					whenever apphalt companies
					ormouned					added or modified and
										supply CA to Mat. Lab along
										with 1 qt sample for
										verification testing.
		504.02	Accept.		1/shipment*	1 gal plastic	CD	No CD		(QPL 41)
		Mat. Lab				bottle	1&7	required if		*Visual inspection by Proj.
								less than 250		Engr. Sample only if
								gal.		questionable.
	Rate of	504.06	Accept.	Proj. Engr.	1/day					
	Application	Proj. Engr.								

		REF.	PURP.	SAMPLED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL	
MAT	ERIAL	TEOTED		BY	FREQ.			QUANITY	HANDLING	REMARKS
				METHOD			пістр			
							MADE TO	SECTION 505		
PAY ITEMS UNI	DER SECTION 5	45 A GOIDE I 05.			BERS WHEN K	EFERENCE IS I	VIADE TO	SECTION 505		NUAL. THERE ARE NO
ASPHALTIC	Cutback	1002	Prelim.	Refinery	1/storage tank	1 qt screw top	CA		5 days	(QPL 41) Non Self
PRIME COAT		Mat. Lab	Source Approval	S 201		can	7			Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002	Drolim	Pofinon	1/cupplier topk	1 at corow top	CA		2 bro during	(OPL 41) Solf Cortified
		1002 Definery	Preim.	S 201	1/Supplier tank	i qi screw top			2 ms. during	(QFL 41) Sell Certified
		Keinery	Approval	5 201	added to tank or modified*	Call			hours	test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		505.02	Accept.		1/shipment*	1 qt screw top	CD	500 gal		(QPL 41)
		Proj. Engr.				can	1&7			*Visual inspection by Proj. Engr. Sample only if questionable.
	Emulsified Asphalt	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 gal plastic bottle	CA 7		5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002	Prelim.	Refinerv	1/supplier tank	1 gal plastic	CA		2 hrs. durina	(QPL 41) Self Certified
		Refinery	Source Approval	S 201	whenever asphalt is added to tank or modified*	bottle	7		working hours	*Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		505.02	Accept.		1/shipment*	1 gal plastic	CD	500 gal		(QPL 41)
		Mat. Lab				bottle	1&7			*Visual inspection by Proj. Engr. Sample only if questionable.
	Rate of Application	505.06 Proj. Engr.	Accept.	Proj. Engr.	1/day					

SECTION 505 ASPHALTIC PRIME COAT

ΜΑΤΕΡΙΔΙ		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	
MATE	RIAL	TESTED		METHOD		CONTAINER	DISTR		TIME	REMARKS
THIS SECTION PAY ITEMS UN	IS TO BE USED DER SECTION 5	AS A GUIDE I 06.			BERS WHEN RE	EFERENCE IS I	MADE TO	SECTION 506	OF THIS MA	NUAL. THERE ARE NO
ASPHALTIC CURING MEMBRANE	Emulsified Asphalt	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 gal plastic bottle	CA 7		5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to tank or modified*	1 gal plastic bottle	CA 7		2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		506.02 Proj. Engr.	Accept.		1/shipment*	1 gal plastic bottle	CD 1 & 7	250 gal		(QPL 41) *Visual inspection by Proj. Engr Sample only if questionable.
	Emulsified Petroleum Resin	1002.00 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1gal plastic bottle	CA 7		5days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to tank or modified*	1 gal plastic bottle	CA 7		2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		506.02 Mat. Lab	Accept.		1/shipment*	1 gal plastic bottle	CD 1 & 7	250 gal		(QPL 41) *Visual inspection by Proj. Engr Sample only if questionable.
	Rate of Application	506.06 Proj. Engr.	Accept.	Proj. Engr.	1 day					
	Water	506.02 1018.01 Proj. Engr.	Accept.	Proj. Engr. S 301	1/source	1 qt plastic bottle		250 gal	11 days	Drinkable water need not be sampled.

SECTION 506 ASPHALTIC CURING MEMBRANE

SECTION 507 ASPHALTIC SURFACE TREATMENT

		REF.	PURP.	SAMPLED	MIN.	MIN. QUANT.	CERT.	SMALL		
MATER	RIAL	TESTED		BY	FREQ.			QUANTITY	TIME	REMARKS
		BY	A H	METHOD		CONTAINER	DISTR.			
AGGREGATES	Rate of Application	507.06(b) Contractor	Quality Control	Contractor	Prior to first pass of aggregate spreader*					*Must check sufficient to ensure materials being applied meet specification requirements.
		507.06(b) Proj. Engr.	Accept.	Proj. Engr.	First pass of aggregate spreader*				1 day	*Must check sufficient to ensure materials being applied meet specification requirements.
	Size 1,2,3 (for cold application)	507.01 1003.05 Dist. Lab	Accept.	Proj. Engr. S 101	1/1000yd ³ / size	1 full sample sack	CA 1	2,000 yd ²	5 days	(QPL 2)
	Size 1,2,3 (for hot application)	507.01 1003.05 Contractor	Quality Control	Contractor S 101	Sufficient to ensure quality	1 full sample sack	CA 1	2,000 yd ²		(QPL 2) Certification from supplier for asphalt coating & gradation.
ASPHALTIC MATERIAL	Emulsified Asphalt	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 gal plastic bottle	CA 7		5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to a tank or modified*	2-1 gal plastic bottles	CA 7		2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		507.02 1002 Dist. Lab/Mat. Lab if failing or non-verif. material	Accept.*	Proj. Engr. S 201	1/transport or storage tank	2 gal plastic bottle**	CD 1 & 8		5 days or 10 days if failing or non-verif. material	(QPL 41) *Send 1 gal to Mat. Lab for failing or nonverifying material. **Two one-gallon plastic bottles.
		507.02 1002 Mat. Lab	Accept.	*	1/type/ project**	1 gal plastic bottle		2,000 yd ²	10 days	(QPL 41) For complete analysis. *Shall be selected at random by the Dist. Lab from the acceptance samples submitted by the Proj. Engr. **Not required if sampled under another item.
	Rate of Application	507.06(a) Proj. Engr.	Accept.	Proj. Engr. 507.06(a)	1/each pass of distributor				1 day	

SECTION 507 ASPHALTIC SURFACE TREATMENT	(Cont'd)
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MATE	RIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.		TIME	
ASPHALTIC MATERIAL (Cont'd)	Asphalt Cement	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7		5 days	(QPL 41) Non Self Certified. Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified. DOTD results use for approval.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to a tank or modified*	1 qt friction top can	CA 7		2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		507.02 1002 Dist. Lab/ Mat. Lab if failing or non- verif. material	Accept.*	Proj. Engr. S 201	1/transport or storage tank	2-1qt friction top can	CD 1 & 8		5 days or 10 days if failing or non-verif. material	(QPL 41) *Send 1qt. to Mat. Lab for failing or nonverifying material.
		507.02 1002 Mat. Lab	Accept.	*	1/type/ project**	1 qt friction top can		2,000 yd ²	10 days	(QPL 41) For complete analysis. *Shall be selected at random by the Dist. Lab from the acceptance samples submitted by the Proj. Engr. **Not required if sampled under another item.
	Rate of Application	507.06(a) Proj. Engr.	Accept.	Proj. Engr. 507.06(a)	1/each pass of distributor				1 day	

SECTION 508 STONE MATRIX ASPHALT

мате	MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS
mare		TESTED BY		METHOD		CONTAINER	DISTR.		TIME	
ADDITIVES	Anti-Stripping	508.02(c)(1) 1002.02(a) Mat. Lab	Prelim. Source Approval	Dist. Lab S 612	1/batch or storage tank	1 pt friction top can			10 days	(QPL 57)
		508.02(c)(1) 1002.02(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment/ plant*	1 pt friction top can	CD 1 & 7	250 tons per location	10 days	(QPL 57) *Sample when not accompanied by CD or questionable.
	Mineral Filler	508.02(c)(2) 1003.06(a)(6) Dist. Lab	Accept.	Proj. Engr. S 102	1/500 tons*	1 gal friction top can				(QPL 10) *Sampling not required for Portland cement or hydratec lime when accompanied by CD.
	Fibers (Mineral or Cellulose)	508.02(c)(3) 1002.02(d)	Accept.	Proj. Engr. S 601	1/shipment*	1 qt friction container	CC		10 days	*Pre-approved by DOTD
AGGREGATES	Combined Aggregates (Moisture Content)	503.03(c) Contractor	Quality Control	Contractor S 101	1/day/plant	1 gal suitable container				
	All Aggregates	1003.06(b) 508.01	Verif.	Proj. Engr. S101	1/source/ plant/size	1 full sample sack			5 days	(QPL 2) Bulk Specific Gravity G _{sb.}
	Coarse Aggregates (+ No. 4)	1003.06(b)(1)	Verif.	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack			5 days	Flat & Elongated.
	Fine Aggregate (- No. 4)	1003.06(b)(2) Dist. Lab	Accept./ Design	Proj. Engr. S 601	1/source/ plant	1 full sample sack			5 days	Fine Aggregate Angularity.
ASPHALT MIX RELEASE AGENT		1018.25 503.13 Proj. Engr.	Accept.*							(QPL 25) *Visual inspection for performance by Proj Engr.

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MATE	RIAL	REF. TESTED	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (PLANT)	Anti-Strip Additive, %	508.03 508.04 508.06 Proi. Engr.	Accept.	Proj. Engr. S 605	1/sublot	*				*Range given on JMF, % AS from meter. See QA Manual.
	Asphalt Cement, %	508.05 503.09 Proj. Engr.	Quality Control	Contractor S 605	1/sublot	*				*% AC from meter or scales. See QA Manual.
	Gyratory Specimens	508.03 Contractor	Design	Contractor S 203	1 set/JMF	6 briquettes/ set				Results submitted with JMF.
	(Moisture Sensitivity) (TSR)	508.04 Contractor	Valid.	S203	1 set/JMF	6 briquettes/ set				Sampled on first production day after validation witnessed by Department.
	Gyratory Specimens	508.05 Contractor	Quality Control	Contractor S203	2/sublot					Aged or unaged _{max} .
	Volumetric	508.06 Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	1/sublot	suitable sampling bucket			1 day	Aged N _{design} .
		508.06 Dist. Lab	Verif.	Proj. Engr.	1/lot	suitably wrapped			5 days	Shall be an acceptance sample representing each lot of plant operation.
		508.06 Dist. Lab	IA	Dist. Lab S 203					7 days	See Independent Assurance Program S 701.

SECTION 508 STONE MATRIX ASPHALT (Cont'd)

		REF.	PURP.	SAMPLED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL	
MATER	IAL			BY	FREQ.			QUANTITY	HANDLING	REMARKS
		TESTED		METHOD		CONTAINED	DISTR		TIME	
ASPHALTIC	Job Mix	508.03	Design	METHOD	1/mix	CONTAINER	DISTR.		10 days	Contractor shall submit to
CONCRETE	Formula (JMF)	Contractor	Doolgii		type/plant				i o dajo	the Proj. Engr. the proposed
(PLANT) (cont'd)					31 - 1					job mix formula with
,,,,,,										, supporting design data.
										Approval by the Dist. Lab
										Engr. is required prior to
										starting work.
		508.04	Vaild.	Contractor	1/JMF					Five (5) samples on 1st days
		Contractor		č. Droj Enerr						production or max. 2,000
	Loose Mixture	508.05	Quality	Contractor	2/sublat	suitable			1 day	Aged or Upaged May use 1
	(Maximum	Contractor	Control	S 203	2/000101	sampling			1 duy	
	Theoretical	Contractor	0011101	0 200		bucket				
	Specific	508(060(a)	Accept.	Proj. Engr.	1/sublot	suitable			1 day	
	Gravity) G _{mm}	Proj. Engr.		S 203		sampling				
						bucket				
	Loose Mixture	503.08	Design/	Contractor	1/JMF*	1 gal friction				*Sample only if coating is
	(Asphalt	Contractor	Quality	S 203		top can				questionable.
	Coating)	500.00	Control						4	*Oseenla salu if as atian is
		503.08 Drei Ener	Accept.	Proj. Engr.	1/JIVIF"	1 gai friction			1 day	"Sample only if coating is
	Loose Mixture	508.03	Design	S 203	1/IME	1 gal friction				
	(Asnhalt	Contractor	Design	Contractor	1/5/01	top can				
	Draindown)	508.06(b)	Accept.	Proi. Enar	1/lot	1 gal friction				
	2	Proj. Engr.		S 203		top can				
		, ,								

SECTION 508 STONE MATRIX ASPHALT (Cont'd)

МАТІ	ERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
ASPHALTIC CONCRETE	Loose Mixture (Gradation)	508.05 Contractor	Quality Control	Contractor S 203 &	1/sublot	suitable sampling				
(Plant) (Cont'd)		508.06 Proj. Engr.	Accept.	S 605 Proj. Engr. S 203 & S 605	1/sublot	bucket			1 day	
		508.06 Dist. Lab	IA	Dist. Lab S 203					7 days	See Independent Assurance Program S 701. Whenever possible, sample at same time acceptance sampling is done.
	Loose Mixture* (Temperature)	503.08 508.08 Contractor	Quality Control	Contractor S 605	2/sublot					*Temperature of mixture at discharge chute.
		503.03 508.08 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot*				1 day	*Temperature of mixture in truck at plant.
	Density	508.06(d) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	3/sublot	4 or 6 in. diameter core			1 day	
		508.06(d) Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	1/sublot	4 or 6 in. diameter core			5 days	
		508.06(e) Dist. Lab	IA	Dist. Lab S 203		SEE INDE	EPENDEN	IT ASSURANC	E PROGRAM	I S 701.
ASPHALTIC CONCRETE (Roadway, In-Place)	Longitudinal Surface Tolerance	508.05 502.10(b) Contractor	Quality Control	Contractor TR 644	each wheelpath segment					Applies to travel lane wearing and binder. Applies to shoulder, parking, airport runway and taxiway wearing
		508.06(e) 502.11(b) Contractor observed by Proj. Engr.	Accept.	Contractor observed by Proj. Engr. TR 644	each sublot				2 days	Applies to travel lane, wearing and center two lanes for airport.

SECTION 508 STONE MATRIX ASPHALT (Cont'd)

		REF.	PURP.	SAMPLED	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING		
MATE	RIAL	TESTED		METHOD		CONTAINER			TIME	REMARKS	
ASPHALTIC CONCRETE (IN-PLACE)	Loose Mixture* (Temperature)	508.08 Proj. Engr.	Accept.	Proj. Engr.	2/sublot				1 day	*Temperature of mixture at entry of MTV.	
(Cont'd)	Transverse Surface Tolerance,	502.10(b) 508.05 Contractor	Quality Control	Contractor S 605	2/day*					* As needed to control project within specification requirements.	
	and Grade	502.11(b) 508.06(e) Proj. Engr.	Accept.	Proj. Engr. S 605	1/day*				1 day	*Test at selected locations for conformance to specifications.	
	Thickness & Width	502.12 508.01 Dist. Lab	Accept.	Dist. Lab TR 602	*			300 lin ft per location	3 days	*Applies to mixture for payment on a cubic yd or sq yd basis.	
ASPHALTIC MATERIAL	Asphalt Cement (PG 76-22M)	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7		5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified. DOTD results used for approval.	
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7		2 hrs during working hours	(QPL 41) Self Certified Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added to modified and supply CA to Mat. Lab along with 1 qt sample for verification testing. Supplier results used for approval.	
		1002 Proj. Engr.	Accept.				CD 8 & 9		5 days	(QPL 41) One CD to accompany each transport.	
			1002 Dist. Lab	Verif.	Proj. Engr. S 201	1/plant working tank/day of production	1 qt friction top can			5 days	(QPL 41) Test original binder DSR, including Phase Angle. If sample does not meet criteria, the plant will investigated and the Dist. Lab will notify the Proj. Engr., the HMA Producer, and the Mat. Lab. Rotational Viscosity to be tested 1/working tank/week for information. A record of results will be kept on file.
		1002 Mat. Lab 1002	Verif.	Proj. Engr. S 201 Proj. Engr	1 working tank	1 qt friction top can 1 gt friction top			10 days	Sample after 72 hour shut down period. (OPL 41) Send directly to	
		Mat. Lab			project /grade	can				Materials Lab for comparison to refinery sample.	
	Tack Coat SEE SECTION 504 OF THIS MANUAL.										

SECTION 509	COLD PLANING	ASPHALTIC PAVEMENT
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	MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.		TIME	REMARINO
COLD PLANED SURFACE	Longitudinal Surface Tolerance* (for single lift overlays only)	502.10(b) 509.03(b) Contractor	Quality Control	Contractor TR 644	each wheelpath segment			2,000 yd ²		*When a single lift is to be placed over the cold planed surface it must meet the requirements of binder course in Section 502 of this Manual. See table 502-8b.
	Transverse Surface Tolerance, Cross Slope and Grade*	502.10(b) Contractor	Quality Control	Contractor	2/day*					*As needed to meet requirements of binder. See table 502-4
TEMPORARY PAVEMENT MARKING					SEE SECTIO	N 713 OF THIS	MANUAL		•	

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SECTION 510 ASPHALTIC CONCRETE PAVEMENT PATCHING, WIDENING AND JOINT REPAIR

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	5511.5%0	
		TESTED							TIME	REMARKS
		BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC For details on Additives, Aggregates, Asphalt Cements, Asphaltic										
CONCRETE		Concrete, As	phaltic Tac	k Coat, Asp	halt Mix Releas	e Agent and Mi	neral			
		Filler, See Section 502 of this Manual.								
	Density	502.11(a)	Accept.	Proj. Engr.	3/sublot	4 or 6 in.			1 day	Top 4 inches of finished
		Proj. Engr.		S 203		diameter core				section.