APPENDIX C

SAMPLING GUIDE SCHEDULE

Tables 1 through 8 (Pages 1–55) - Acceptance Sampling Guide.

Table 1	Soils (Pages 1-3)
Table 2	Aggregates (Pages 4-24)
Table 3	Bituminous Materials (Pages 25-32)
Table 4	Portland Cement Concrete (Pages 33-36)
Table 5	Materials Used With Portland Cement
	Concrete (Pages 37-40)
Table 6	Stabilized Soils and Bases (Pages 41-42)
Table 7	Bituminous Mixtures (Pages 43-45)
Table 8	Miscellaneous Materials (Pages 46-55)

Table 9 (Page 56) - Illustration of Sampling Ticket and Listing of Codes for Purpose, Testing Lab, Size, and Roadway.

Table 10 (Pages 57-60) - Listing of Material Codes and Type Codes Used By FAST (Field Office Automation SysTem).

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TABLE 1					
	∧ ○ CEDT			2 9011 9	
ODEOLEI	ACCEPTANCE SAMPLING GUIDE FOR SOILS				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
203	Borrow (within 3 ft. of finished subgrade elevation)	Gradation (1)	In-Place	One per 1500 ft.	
203	Embankment	Proctor Density Optimum Moisture	In-Place	One per soil type, and as needed.	
		Compaction	In-Place	One per 1500 ft. per lift.	

⁽¹⁾ Independent Assurance Sampling and Testing required.

	TABLE 1 (continued) ACCEPTANCE SAMPLING GUIDE FOR SOILS				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
203	Subgrade	Proctor Density Optimum	Roadway	One per soil type, and as needed.	
		Moisture Compaction	Roadway	One per 1500 ft.	
		Gradation ⁽¹⁾	Roadway	One per 1500 ft. or change in material.	
		PI ⁽¹⁾			
203	Soil for Shoulder Build-up	Gradation PI	In-Place or Source	One per soil type.	
	Bullu-up	pH			
		Soluble Salts			
		Compaction	In-Place	One per 1500 ft. or as directed by the Engineer.	
501	Trench Backfill	Proctor Density	In-Place	One per soil type, and as needed.	
		Optimum Moisture			
		Compaction	In-Place	One per 100 CY.	

⁽¹⁾ Independent Assurance Sampling and Testing required.

		TABLE 4 /	(' 1)	
	ACCEDT	TABLE 1 (co ANCE SAMPLIN		2 9011 9
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
803	Granite Mulch or Decomposed Granite	Gradation	In-Place or Source	One per 10,000 CY.
804	Top Soil	Gradation (1) PI (1) pH (1) Soluble Salts Calcium Carbonate Exchange- able Sodium in percent and parts per million	In-place	Written soil analysis per source and six samples per lot [a lot is considered approximately 20,000 CY per source].

⁽¹⁾ Independent Assurance Sampling and Testing required.

	TABLE 2 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
203 501	Structure Backfill or Pipe Backfill	Proctor Density Optimum Moisture	Stockpile	One per source, or change in material.		
		Compaction	In-Place	One per 100 CY. Minimum one per lift.		
		Resistivity ⁽¹⁾	Source or Stockpile	One per source.		
		Gradation ⁽¹⁾	On Job Site	One per 1500 CY per source, or change in material.		

⁽¹⁾ Independent Assurance Sampling and Testing required.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
303	Aggregate Base	Abrasion (2)	Source	One per source.		
	Class 1, Class 2, and Class 3	Proctor Density	Crusher Belt, Stockpile	At start of production, then as material changes.		
		Optimum Moisture	or Windrow			
		Compaction	Roadway	One per lift per 1500 ft.		
		Fractured Coarse Aggregate Particles ⁽¹⁾	Stockpile or Windrow	One per 10,000 tons.		
		Gradation (1)	Windrow	One per 2000 tons, minimum one per shift.		
		PI ⁽¹⁾				

⁽¹⁾ Independent Assurance Sampling and Testing required.

 $^{^{(2)}}$ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
303	Aggregate Subbase Class 4, Class 5, and Class 6	Proctor Density Optimum Moisture	Crusher Belt, Stockpile or windrow.	At start of production, then as material changes.	
		Compaction	Roadway	One per lift per 1500 ft.	
	Class 4	Fractured Coarse Aggregate Particles ⁽¹⁾	Stockpile or windrow	One per 10,000 tons.	
		Gradation (1)	Windrow	One per 2000 tons, minimum one per shift.	
		Abrasion ⁽²⁾	Source	One per source.	
	Class 5 and Class 6	Gradation ⁽¹⁾	Windrow	One per 2000 tons, minimum one per shift.	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

TABLE 2 (continued)				
	ACCEPTANC	E SAMPLING GU		GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
304 305	Aggregate for Cement	Gradation (1)	Stockpile	One per 2000 tons, minimum one per shift.
	Treated Base or Lean Concrete Base	Fractured Coarse Aggregate Particles (1)	Stockpile	One per 10,000 tons.
		Abrasion ⁽²⁾	Source	One per source.
	for Cement Treated Base	PI ⁽¹⁾	Stockpile	One per 2000 tons, minimum one per shift.
	for Lean Concrete Base	Sand Equivalent ⁽¹⁾	Stockpile	One every other day of Lean Concrete Base production.

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

TABLE 2 (continued)				
	ACCEPTANC	E SAMPLING GU	JIDE FOR AG	GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
404	Cover Material	Abrasion (2)	Source or Stockpile	One per source.
		Bulk O.D. Specific Gravity Percent Carbonates	Stockpile	One per source.
		Dry Unit Weight		
		Fractured Coarse Aggregate Particles	Final Stockpile	One per 500 tons. (Sampled prior to pre- coating for hot applied).
		Flakiness Index		
		Gradation ⁽¹⁾		
		Moisture Content	Trucks at Scale	Per Discretion of the Engineer for Emulsion Chip Seal.
404 412	Blotter Material	Gradation	Final Stockpile	Per Discretion of the Engineer.

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
404	Bonded Wearing	Abrasion (2)	Source or Stockpile	One per source.	
	Course (BWC)	Percent Carbonates	Stockpile	One per source.	
		Gradation (1)	Cold Feed Stockpile	One prior to start of Bonded Wearing Course production, and one per 500 tons.	
		Sand Equivalent	Stockpile	One prior to start of and during production of	
		Fractured Coarse Aggregate Particles		Bonded Wearing Course production, and one per every other day as directed by the Engineer.	
		Uncompacted Void Content			
		Moisture Content	Prior to mixing with mineral admixture	One per each two days of asphaltic concrete production.	
		Asphalt Content		By means of nuclear gauge, 4 samples per shift.	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	ACCEPTANC	TABLE 2 (co E SAMPLING GU		GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
Refer to Special	Mineral Aggregate for	Abrasion (2)	Source or Stockpile	One per source.
Provisions	Micro- Surfacing	Percent Carbonates	Stockpile	One per source.
		Gradation (1)	Final Stockpile	One prior to start of Micro-Surfacing production, and one per 300 tons
		Sand Equivalent	Stockpile	One prior to start of Micro-Surfacing
		Fractured Coarse Aggregate Particles		production, and one per 600 tons
		Uncompacted Void Content		
		Moisture Content	Trucks at Scale	One per 300 tons.

⁽¹⁾ Independent Assurance Sampling and Testing required.

 $^{^{(2)}}$ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
407	Mineral Aggregate for Asphaltic Concrete Friction Course (ACFC)	Abrasion (2) Percent Carbonates Specific Gravity	Source or Stockpile	One per source.		
		Gradation	Cold Feed	One prior to the start of ACFC production.		
		Sand Equivalent ⁽¹⁾	Cold Feed or Stockpile	One prior to the start of ACFC production and one per each two days of		
		Flakiness Index ⁽¹⁾		ACFC production, minimum of two per project.		
		Fractured Coarse Aggregate Particles ⁽¹⁾				
		Moisture Content	Prior to mixing with mineral admixture			
		Gradation (1)	Cold Feed or Hot Bins	One per 500 tons of ACFC production, minimum of one per shift.		

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	TABLE 2 (continued)				
	ACCEPTANC	E SAMPLING GU		GREGATES	
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
409	Mineral Aggregate	Abrasion (2)	Source or Stockpile	One per source.	
	for Asphaltic Concrete	Sand Equivalent	Stockpile	One per source.	
	(Miscellaneous Structural)	Fractured Coarse Aggregate Particles			
	[For Special Mix, see below.]	Moisture Content	Prior to mixing with mineral admixture	One per each two days of asphaltic concrete production.	
		Gradation	Cold Feed or Hot Bins	At discretion of the Engineer.	
409	Mineral Aggregate	Abrasion (2)	Source or Stockpile	One per source.	
	for Asphaltic	Sand Equivalent ⁽¹⁾	Stockpile	One prior to start of production. One per each two days of asphaltic concrete production,	
	Concrete (Miscellaneous Structural – Special Mix)	Uncompacted Void Content ⁽¹⁾	Cold Feed	minimum of two per project.	
	, ,	Fractured Coarse Aggregate Particles (1)	Cold Feed or Stockpile		
		Moisture Content	Prior to mixing with mineral admixture	One per each two days of asphaltic concrete production.	
		Gradation		s Mixture requirements for crete (Miscellaneous Structural - n Page 42.)	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES					
SPECIFI-						
CATION	MATERIAL	TYPE OF TEST(S)	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
SECTION		REQUIRED				
411	Mineral Aggregate	Abrasion (2)	Source or Stockpile	One per source.		
	for	Percent				
	Asphaltic	Carbonates				
	Concrete Friction	Sand Equivalent	Stockpile	One per source.		
	Course (ACFC) -	Flakiness Index				
	Miscellaneous	Fractured Coarse Aggregate Particles				
		Moisture	Prior to	One per each two days of		
		Content	mixing with mineral admixture	ACFC production.		
		Gradation	Cold Feed or Hot Bins	At the discretion of the Engineer.		

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
414	Mineral Aggregate for	Abrasion (2)	Source or Stockpile	One per source.	
	Asphaltic Concrete Friction	Specific Gravity	Stockpile	One per source.	
	Course (Asphalt- Rubber)	Percent Carbonates			
	[AR-ACFC]	Gradation	Cold Feed	One prior to the start of AR-ACFC production.	
		Sand Equivalent ⁽¹⁾	Cold Feed or Stockpile	One prior to the start of AR-ACFC production and one per each two days of	
		Fractured Coarse Aggregate Particles ⁽¹⁾		AR-ACFC production, minimum of two per project.	
		Flakiness Index ⁽¹⁾			
		Moisture Content	Prior to mixing with mineral admixture		
		Gradation ⁽¹⁾	Cold Feed or Hot Bins	One per 500 tons of AR-ACFC production, minimum of one per shift.	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

	ACCEPTANO	TABLE 2 (cor CE SAMPLING GU	ntinued)	GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
924	Mineral Aggregate for Stone Matrix	Abrasion ⁽²⁾ Percent Carbonates (if required)	Source or Stockpile	One per source.
	Asphalt	Sand Equivalent	Stockpile	One at least five days prior to
	(SMA)	Fractured Coarse Aggregate Particles		start of asphaltic concrete production.
		Uncompacted Void Content (Special Mix only)		
		Ignition Furnace Calibration		
		Flakiness Index		
		Flat and Elongated Particles		
		VCA Mix		
		Soundness		
		Sand Equivalent	Cold Feed or Stockpile	One per each two days of asphaltic concrete production,
		Fractured Coarse Aggregate Particles ⁽¹⁾		minimum of two per project.
		Uncompacted Void Content ⁽¹⁾		
		Flakiness Index		
		Flat and Elongated VCA Mix		
		Moisture Content	Prior to mixing with mineral admixture	
		Gradation	Stockpile	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Historical abrasion values may be used provided testing was conducted within the past two years.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
416	Mineral Aggregate for Asphaltic Concrete -	Abrasion (2) Percent Carbonates (if required)	Source or Stockpile	One per source.	
	End Product [with reclaimed asphalt pavement (RAP)] (See Page 17 for mixes without RAP.)	Fractured Coarse Aggregate Particles Uncompacted Void Content (Special Mix only) Ignition Furnace Calibration	Stockpile	One at least five days prior to start of asphaltic concrete production.	
		Sand Equivalent (1) Fractured Coarse Aggregate Particles (1) Uncompacted Void Content (1) (Special Mix only)	Cold Feed or Stockpile	One per each two days of asphaltic concrete production, minimum of two per project.	
		Moisture Content Gradation	,	us Mixture requirements Concrete - End Product on	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Historical abrasion values may be used provided testing was conducted within the past two years.

	ACCEPTANO	TABLE 2 (co	ntinued)	GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
416	Mineral Aggregate for Asphaltic Concrete - End Product [without reclaimed	Abrasion (2) Percent Carbonates (if required)	Source or Stockpile	One per source.
	asphalt pavement (RAP)] (See Page 16 for mixes with RAP.)	Sand Equivalent Fractured Coarse Aggregate Particles Uncompacted Void Content (Special Mix only) Ignition Furnace Calibration	Stockpile	One at least five days prior to start of asphaltic concrete production.
		Sand Equivalent (1) Fractured Coarse Aggregate Particles (1) Uncompacted Void Content (1) (Special Mix only)	Cold Feed or Stockpile	One per each two days of asphaltic concrete production, minimum of two per project.
		Moisture Content Gradation	`	us Mixture requirements Concrete - End Product on

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Historical abrasion values may be used provided testing was conducted within the past two years.

	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFI- CATION	MATERIAL	TYPE OF TEST(S)	SAMPLING	MINIMUM	
SECTION	WATERIAL	REQUIRED	POINT	SAMPLING FREQUENCY	
417	Mineral Aggregate for	Abrasion (2) Percent	Source or Stockpile	One per source.	
	Asphaltic Concrete (End	Carbonates (if required)			
	Product) SHRP Volumetric Mix	Sand Equivalent	Stockpile	One at least five days prior to start of asphaltic concrete	
	[without reclaimed asphalt pavement (RAP)]	Fractured Coarse Aggregate Particles		production.	
	(See Page 19	Uncompacted Void Content			
	for mixes with RAP.)	Ignition Furnace Calibration			
		Sand Equivalent (1) Fractured Coarse Aggregate Particles (1)	Cold Feed or Stockpile	One per each two days of asphaltic concrete production, minimum of two per project.	
		Uncompacted Void Content (1)			
		Moisture Content	Prior to mixing with mineral admixture		
		Gradation	Asphaltic Co	ous Mixture requirements for ncrete (End Product) SHRP lix on Page 45.)	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Historical abrasion values may be used provided testing was conducted within the past two years.

TABLE 2 (continued)				
	ACCEPTANC	E SAMPLING GL		GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
417	Mineral Aggregate for Asphaltic Concrete (End Product) SHRP Volumetric Mix [with reclaimed asphalt pavement	Abrasion (2) (Virgin Agg. and RAP Agg. separately) Percent Carbonates (if required) (Composite of Virgin Agg. and RAP Agg.)	Source or Stockpile	One per source.
	(RAP)] See PPD ⁽³⁾ . (See Page 18 for mixes without RAP.)	Sand Equivalent (Virgin Agg. only) Fractured Coarse Aggregate Particles (Composite of Virgin Agg. and RAP Agg.) Uncompacted Void Content (Virgin Agg. only) Ignition Furnace Calibration (Virgin Agg., RAP Agg., and RAP material)	Stockpile	One at least five days prior to start of asphaltic concrete production. (Ideally, sampling should coincide with mix design sampling.)
		Gradation, Binder Content (1), and Moisture Content of RAP material	Individual stockpiles (belt cut may be used for single stockpile)	One per each lot of asphaltic concrete production.
		Sand Equivalent ⁽¹⁾ (Virgin Agg. only)	Cold Feed or Stockpile	One per each two days of asphaltic concrete production, minimum of two per project.

ADOT MATERIALS QUALITY ASSURANCE PROGRAM APPENDIX C - SAMPLING GUIDE SCHEDULE

February 24, 2025

Fractured Coarse Aggregate Particles (1) (Composite of Virgin Agg. and RAP Agg. obtained from Arizona Test Method 428) Uncompacted Void Content (1) (Virgin Agg. only) Moisture Content	Prior to mixing with mineral admixture
Gradation	(See Bituminous Mixture requirements for Asphaltic Concrete (End Product) SHRP Volumetric Mix on Page 45.)

⁽¹⁾ Independent Assurance Sampling and Testing required.
(2) Historical abrasion values may be used provided testing was conducted within the past two years.

⁽³⁾ ADOT Materials Practice and Procedure Directive.

	TABLE 2 (continued)			
	ACCEPTANC	E SAMPLING GU	JIDE FOR AG	GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
Refer to Special Provisions	Mineral Aggregate for	Abrasion (2)	Source or Stockpile	One per source.
	Asphaltic Concrete - Miscellaneous	Sand Equivalent	Stockpile	One per source.
	Paving	Gradation	Cold Feed or Hot Bins	At discretion of the Engineer.
501	Bedding Material for Pipe ⁽³⁾	Gradation ⁽¹⁾	Source or Stockpile	One per 300 CY per source.
		pH ^{(1) (3)} Resistivity ^{(1) (3)}		One per source. (3)
		Proctor Density	Source or Stockpile	One per source, and as needed.
		Optimum Moisture		
		Compaction	In-Place	One every 50 CY.
501	Filter Material for Perforated Pipe	Gradation (1)	Source or Stockpile	One per 300 CY per source.

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽²⁾ Provided Construction & Materials Group concurs, historical abrasion values may be used.

⁽³⁾ pH and Resistivity for Metal Pipe Only

	TABLE 2 (continued)			
	ACCEPTANC	E SAMPLING GL	JIDE FÓR AG	GREGATES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
501	Plating Material for Pipe Ends	PI Proctor Density Optimum Moisture	Source or Stockpile	One per source, and as needed.
		Compaction	In-Place	One every 50 CY.
702	Crash Barrel Sand Sand and Rock Salt Mixture	Gradation Dry Unit Weight per cubic foot Moisture Content Percent Rock Salt (only when installed at elevations above 3,000 feet)	Plant or Site (Sand intended to be blended with rock salt to be sampled at the plant or the site. Sand to be tested prior to the addition of rock salt.)	One per each attenuator system location.
808	Bedding Material for Polyvinyl Chloride (PVC) Irrigation Pipe	Gradation	Source or Stockpile	One per source.

		TADLE 0 /				
	TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
913	Rock for Wire Tied	Specific Gravity	Source	One per source.		
	Riprap, Gabions, Riprap (Slope Mattress), and Rail Bank Protection	Gradation (visual) Refer to ADOT Specification 913-2.01	Source	One per source.		
	Rock for Grouted	Specific Gravity	Source	One per source.		
	Riprap and Dumped Riprap	Gradation	Source	One per source. Refer to ADOT Specification 913- 2.01		
1006	Fine Aggregate for Portland Cement Concrete (PCC) Classes P, S, and B	Gradation ⁽¹⁾ Sand Equivalent ⁽¹⁾	Batch Plant Conveyer Belt or Stockpile	Once per week of production.		

⁽¹⁾ Independent Assurance Sampling and Testing required.

TABLE 2 (continued)					
ACCE	PTANCE SAM	MPLING GUID	E FOR AGGREC	GATES	
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
1006	Coarse Aggregate for Portland Cement Concrete (PCC) Classes P, S, and B	Gradation ⁽¹⁾	Batch Plant Conveyor Belt or Stockpile	Once per week of production.	
Abrasion ⁽²⁾ Stockpile One per source.					
	Fractured Coarse Aggregate Particles		Stockpile	One per source.	

ACCEP ⁻	TABLE 3 ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL					
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
1005	Recycling Agent RA-1 RA-5 RA-25 RA-75	Per Specifications	Circulation Line Recom- mended ⁽⁴⁾	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) per shift.		
1005	Liquid Asphalt for Prime Coat	Per Specifications	Distributor Recom- mended ⁽⁴⁾	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) per delivery unit.		
404						

⁽⁴⁾ Point of sampling specified by Engineer.

	TARLE 2 (continued)					
A	TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
1005	Emulsified Asphalt RS-1 CRS-1 RS-2	Per Specifications	Supplier (For pre- approval of material.)	See PPD ⁽³⁾ .		
	CRS-2 SS-1	Residue	Distributor Recom-	See PPD ⁽³⁾ .		
	CSS-1 CRS-2P		mended ⁽⁴⁾	For preapproved emulsions, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		
404	for Chip Seal Coat, Tack Coat, and Fog Coat			For emulsions not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		

⁽³⁾ ADOT Materials Practice and Procedure Directive.

⁽⁴⁾ Point of sampling specified by Engineer.

A	TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT			
1005	Emulsified Asphalt	Residue	Distributor Recom-	See PPD ⁽³⁾ .		
	Special Type (Diluted SS-1 or CSS-1)		mended ⁽⁴⁾	For preapproved undiluted emulsions, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		
404	for Tack Coat and Fog Coat			For undiluted emulsions not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		

⁽³⁾ ADOT Materials Practice and Procedure Directive.

⁽⁴⁾ Point of sampling specified by Engineer.

TABLE 3 (continued)					
	ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
1005	Asphalt Cement (PG XX-XX, PG XX-XX	Per Specifications			
404	TR+)				
416 417	for Tack Coat			Certificate of Compliance required.	
	for Asphaltic Concrete		Supplier or Project	A two gallon sample (two full one-gallon metal cans) at least five days prior to start of asphaltic concrete	
404			Circulation Line Recom- mended (4)	production (for calibration of ignition furnace).	
407 409 411	for Chip Seal Binder Coat		Distributor Recom- mended ⁽⁴⁾	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) per 1/2	
416 417	for Asphaltic Concrete, or ACFC		Circulation Line Recom- mended ⁽⁴⁾	shift.	

⁽⁴⁾ Point of sampling specified by Engineer.

A	TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
1005	Emulsified Recycling Agent (ERA) ERA-1 ERA-5	Per Specifications	Supplier (For pre- approval of material)	See PPD ⁽³⁾ .		
	ERA-25 ERA-75	Residue	Distributor Recom-	See PPD ⁽³⁾ .		
			mended ⁽⁴⁾	For preapproved ERA, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		
				For ERA not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		
	ERA (Diluted)	Residue	Distributor Recom-	See PPD ⁽³⁾ .		
			mended ⁽⁴⁾	For preapproved undiluted ERA, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		
404	for Fog Coat			For undiluted ERA not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		

⁽³⁾ ADOT Materials Practice and Procedure Directive.

⁽⁴⁾ Point of sampling specified by Engineer.

A	TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
1005 1009 410	Asphalt Cement (PG XX-XX, PG XX-XX TR+) for Asphalt - Rubber (Sprayed Applications)	Per Specifications	Delivery Unit or Terminal (if blended at terminal)	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) for each shipment - not less than one set of duplicate samples for each 40 tons.		
1005 1009 414	Asphalt Cement (PG XX-XX) for Asphalt - Rubber for AR-AC or AR-ACFC	Per Specifications	Delivery Unit or Terminal (if blended at terminal) (4)	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) per 1/2 shift.		
1009	Crumb Rubber for Asphalt - Rubber	Gradation	Project (or Terminal (if blended at terminal)	Certificate of Compliance required and one sample [approximately 1500 grams (one gallon) per Arizona Test Method 714] per lot per type.		
1009 410	Asphalt - Rubber [CRA ⁽⁵⁾] Type 1, Type 2, or Type 3 (Sprayed Applications)	Per Special Provisions.	Distributor Recom- mended ⁽⁴⁾	Certificate of Compliance required and a one gallon sample in a metal can per delivery unit.		

⁽⁴⁾ Point of sampling specified by Engineer.

⁽⁵⁾ CRA = Crumb Rubber Asphalt

A	TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
1009 414	Asphalt - Rubber [CRA ⁽⁵⁾]			Certificate of Compliance required.		
	Type 1, Type 2, or Type 3 For AR-AC or AR-ACFC	Penetration Softening Point Resilience Rotational Viscosity (laboratory)	Circulation Line Recom- mended ⁽⁴⁾	Duplicate samples (each one gallon in a metal can) per 1/2 shift.		
		Rotational Viscosity (at plant/terminal)		One sample (one gallon in a metal can) per batch.		

⁽⁴⁾ Point of sampling specified by Engineer.

⁽⁵⁾ CRA = Crumb Rubber Asphalt

A	TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT			
Refer to Special Provisions	Emulsified Asphalt for Cold Recycled Asphaltic Concrete	Per Special Provisions.	Supplier (for pre- approval of material.)	See PPD ⁽³⁾ .		
	HFE-150P HFE-300P	Residue	Distributor Recom-	See PPD ⁽³⁾ .		
			mended ⁽⁴⁾	For preapproved emulsions, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		
				For emulsions not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.		

⁽³⁾ ADOT Materials Practice and Procedure Directive.

⁽⁴⁾ Point of sampling specified by Engineer.

ACCE!	TABLE 4 ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
401 1006	Portland Cement Concrete (PCC) Class P	Compressive Strength	Immediately before going into	Five samples per lot. (For compressive strength, one set		
		Slump	paver or forms, or as otherwise	of three cylinders per sample.)		
		Air Content (when Required)	directed by the Engineer.			
		Temperature				
		Thickness	Roadway	10 cores per lot.		
1006	Portland Cement Concrete (PCC) Class S	Compressive Strength	Back of Truck or Mixer	One sample for each 100 CY, or fraction thereof, of continuously placed		
	(with a compressive strength requirement less	Slump		concrete per day from each batch plant. For daily placements of 10 CY or less, at the discretion of the		
	than 4,000 psi)	Temperature		(For compressive strength, one set of two cylinders per sample.)		
		Air Content (when Required)	Back of Truck or Mixer	Sample for air content every 50 CY when elevation is above 3000 ft. For daily placements of 10 CY or less, at the discretion of the Engineer.		
402	Dowel Bar	Epoxy Coatings		Certificate of Compliance for Epoxy bars. Certificate of Compliance for Coating Material. Certificate of Analysis for Coating Application. Each Shipment.		
601 1006	Self-Consolidating Concrete (SCC)	Compressive Strength Spread	Back of Truck or Mixer			
		Temperature Air Content (When Requested)				

ACCE	TABLE 4 (continued) ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
1006	Portland Cement Concrete	Compressive Strength	Back of Truck or Mixer	One sample for each 50 CY, or fraction thereof, of continuously placed	
	(PCC) Class S	Slump		concrete per day from each batch plant. For daily	
	(with a compressive strength	Temperature		placements of 10 CY or less, at the discretion of the Engineer.	
	requirement equal to or greater than 4,000 psi)			(For compressive strength, one set of three cylinders per sample.)	
		Air Content (when Required)	Back of Truck or Mixer	Sample for air content every 50 CY when elevation is above 3000 ft. For daily placements of 10 CY or less, at the discretion of the Engineer.	
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1005		TABLE 4 (co		OFMENT CONODETE		
	ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
1006	06 Portland Cement Concrete	Compressive Strength	Back of Truck or Mixer	One sample for each 100 CY of concrete placed from each batch plant For		
	(PCC) Class B	Slump		daily placements of 10 CY or less, at the discretion of the Engineer.		
		Temperature		the Engineer.		
				(For compressive strength, one set of two cylinders per sample.)		
		Air Content (when Required)	Back of Truck or Mixer	Sample for air content every 50 CY when elevation is above 3000 ft. For daily placements of 10 CY or less, at the discretion of the Engineer.		
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ACCE	TABLE 4 (continued) ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
601 1006	Portland Cement Structural Concrete for Minor Precast Structures (Manholes, Cattle Guards, Utility Vaults, Catch Basins, Flared Ends, etc.)	Rebound Hammer	At Fabrication Yard	One set of readings per precast unit.		
601 1006	Pre-stressed Concrete	Compressive Strength Slump Temperature	Back of Truck or Mixer	One sample per member or for each day's production. (For compressive strength, a minimum of two sets of 3 cylinders for detensioning, and one set of 3 cylinders for 28day breaks.)		
912	Shotcrete	Compressive Strength	Test Panels	Three cores from a test panel every 100 CY or fraction thereof, per day.		
		Slump	At Mixer Discharge	One per 50 CY or fraction thereof, per day.		
		Air Content (For Shotcrete placed at an elevation of 3,000 feet or above)	For wet-mix process, just prior to pumping			
			For dry-mix process, from in-place material			
922 1006	Utility Concrete	None				

⁽⁶⁾ If Sampling at point of placement is not feasible, sample in accordance with subsection 1006-7.02(A). When air entrainment is required, and concrete is pumped, sample also from discharge of the delivery vehicle to determine if air loss is excessive in accordance with subsection 601.3-03(C).

	TABLE 5					
AC	ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH PORTLAND CEMENT CONCRETE					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
602 1003	Pre-stressing Steel (Spiral, Bars, Strand Wire, or Wire)	Tensile Strength	Project or Fabrication Plant	Certificate of Compliance required and one 6 ft. piece from each bar size, heat, reel, or coil.		
602 1003	Post- Tensioning Steel	Tensile Strength	Project	Certificate of Compliance required and one 6 ft. piece from each bar size, heat, reel, or coil.		
605	Mechanical Splices for Reinforcing Steel	Yield Strength (125%)	Field	Minimum of three splices or 2% of the total number of field splices (whichever is greater) chosen at random and tested to 125% yield strength by Structural Materials Testing Lab. Samples to be at least 42 inches long with splice at mid length.		
605 1003	Mechanical Splices for Reinforcing Steel Reinforcement Bars (Epoxy Coated or Uncoated) (8)	Yield Strength, Tensile Strength, Bend Test, Elongation, Weight/Foot, and Coating Thickness (if applicable)	Fabrication Plant or Supplier's Yard	Certificate of Compliance required. Samples required for No. 7 and above.		
	All Sources		Project	Certificate of Compliance required and one 7 ft. bar per shipment.		
(0)	Welded Wire Fabric (Smooth)		Supplier's Yard or Project	Certificate of Compliance required and one 2 ft. x 2 ft. sample per 25 rolls.		

⁽⁸⁾For rebar #4, #5, and #6 testing is no longer required and is accepted on Certificate of Compliance. For rebar size #7 and greater, testing is required.

Δ	TABLE 5 (continued) ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH				
	PORTLAND CEMENT CONCRETE				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
1003	Welded Wire Fabric (Smooth)	Tensile Strength, Diameter, Spelter, Weld Shear, Reduction in Area	Supplier's Yard or Project	Certificate of Compliance required and one 2 ft. x 2 ft. sample per 25 rolls.	
1003	Welded Wire Fabric	Tensile Strength, Weld Shear, Weight/Foot	Supplier's Yard or Project	Certificate of Compliance required and one 4 ft. x 4 ft. sample per 25 sheets.	
1006	Admixtures			Certificate of Compliance required and must be on the Department's Approved Products List.	
1006	Curing Compound	Non-volatile Content, %	Supplier's Yard or Project	For material from preapproved lot, Certificate of Analysis only. For material not preapproved, Certificate of Analysis and a 1/2 gallon sample per lot.	
1006	Fly Ash and Natural Pozzolan			Material supplied from an Approved Material Source with a Certificate of Analysis submitted with the mix design.	
1006	Silica Fume			Certificate of Compliance required with each delivery.	
		1			

A	TABLE 5 (continued) ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH PORTLAND CEMENT CONCRETE					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
1006	Water	Soluble Salts pH	Source	One sample (1 pint in glass container) per source ⁽⁷⁾ .		
1006	Hydraulic Cement (All Types)			Material supplied from an Approved Material Source. See PPD ⁽³⁾ with a Certificate of Analysis submitted with the mix design		
1011	Joint Materials	Per Specifications		Silicone joint sealant must be on the Department's Approved Product List. In addition, a Certificate of Analysis shall accompany each lot or batch of sealant.		
				For joint materials other than silicone joint sealant, only a Certificate of Compliance is required.		

⁽³⁾ ADOT Materials Practice and Procedure Directive.

⁽⁷⁾ No sample is necessary if water is potable and comes from a proven source.

AC	TABLE 5 (continued) ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH PORTLAND CEMENT CONCRETE				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
1013 604	Bearing Pads (Preformed Fabric)	Thickness Compression Load	Contractor's Yard	Certificate of Analysis required and two sample pads from every 100, or fraction thereof, with a minimum of one sample pad from each lot for each type of pad. (Tested by ADOT.)	
1013 604	Bearing Pads (Plain and Fabric Reinforced Elastomeric)	Per Specification Subsection 1013-2	Contractor's Yard	Certificate of Analysis required and two sample pads from every 100, or fraction thereof, with a minimum of one sample pad from each lot for each type of pad. (1) [Tested by an ADOT Accredited Laboratories listed on the ADOT website)	
1013 604	Bearing Pads (Steel Reinforced Elastomeric)	Per Specification Subsection 1013-2	Contractor's Yard	Certificate of Analysis required and two sample pads from every 100, or fraction thereof, with a minimum of one sample pad from each lot for each type of pad. (1) [Tested by an ADOT Accredited Laboratory listed on the ADOT website)	
(1) It is the	Contractor's respo	nsibility to coordina	ate with ADOT	Accredited Laboratory.	

ACCE	EPTANCE SAMP	TABLE		O SOILS AND BASES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
301	Lime Treated Subgrade	Optimum Moisture	Roadway	One per soil type, and as needed.
		Compaction	Roadway	One per lift per 1000 ft.
		Compressive Strength (2)	Roadway or Point of Placement	Three random samples per shirt. (Three specimens from each sample, molded within 90 minutes.)
302	Cement Treated Subgrade	Proctor Density Optimum Moisture	Roadway	At start of production, then one per week, and as needed.
		Compaction	Roadway	One per lift per 1000 ft.
304	Cement Treated Base	Proctor Density Optimum Moisture	Roadway	At start of production then one per week, and as needed.
		Compaction	Roadway or Point of	One per lift per 1000 ft.
		Compressive Strength ⁽¹⁾	Placement	Five random samples per shift. A reduced number of samples may be taken at the discretion of the Engineer. (Three specimens from each sample.)

⁽¹⁾ Independent Assurance Sampling and Testing required. If Compressive Strength is required by Special Provisions

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	TABLE 6 (continued)				
	PTANCE SAMPI		R STABİLIZE	SOILS AND BASES	
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
305	Lean Concrete Base	Compressive Strength (1) Slump Air Content (when required)	At Discharge	Four random samples per 4000 SY, minimum four samples per shift.	
		Thickness	Roadway	Per Specifications.	
Refer to Special Provisions	Bituminous Treated Base	See Special Provisions	Roadway	At the discretion of the Engineer.	
Refer to Special Provisions	Cement Stabilized Alluvium	Compressive Strength ⁽¹⁾	Roadway or Point of Placement	One set of three per 1500 CY, minimum one set of three per 1/2 shift.	
Refer to Special Provisions	Soil-Cement Bank Protection	Compressive Strength ⁽¹⁾	Roadway or Point of Placement	One set of three per 1500 CY, minimum one set of three per 1/2 shift.	

⁽¹⁾ Independent Assurance Sampling and Testing required.

A	TABLE 7 ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MIXTURES					
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
404	Bonded Wearing Course (BWC)	% Asphalt ⁽¹⁾	Trucks at Mixing Plant	4 per shift		
407	Asphaltic Concrete Friction Course (ACFC)	% Asphalt ⁽¹⁾ Moisture Content ⁽¹⁾	Trucks at Mixing Plant	4 per shift.		
408	Cold Recycling (Bituminous Surface)	Moisture Content Marshall Density	Roadway	Density tests with nuclear gauge (performed by QC), then 4 Cores per lift.		
409	Asphaltic Concrete (Miscellaneous Structural)	% Asphalt Moisture Content Rice Marshall Density	Roadway	At the discretion of the Engineer.		
409	Asphaltic Concrete (Miscellaneous Structural - Special Mix)	% Asphalt (1) Moisture Content (1) Rice (1) Marshall Density (1) Gradation (1)	Roadway	One sample per 500 tons.		
411	Asphaltic Concrete Friction Course (ACFC) - Miscellaneous	% Asphalt Moisture Content	Trucks at Mixing Plant	At the discretion of the Engineer.		

⁽¹⁾ Independent Assurance Sampling and Testing required.

	TABLE 7 (continued)				
AC	CCEPTANCE SA			NOUS MIXTURES	
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
414	Asphaltic Concrete Friction Course (Asphalt – Rubber) [AR-ACFC]	% Asphalt- Rubber ⁽¹⁾ Moisture Content ⁽¹⁾	Trucks at Mixing Plant	4 per shift.	
416	Asphaltic Concrete - End Product [For mixes containing reclaimed asphalt pavement (RAP), see PPD (3).]	% Asphalt (1) Moisture Content (1) Gradation (1) Marshall (1) [Density, Stability, and Flow] Rice (1)	Roadway	4 per lot.	
		Compaction, (Courses > 1½ inch in nominal thickness)	Roadway	20 cores per lot (10 locations/2 cores per location).	

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽³⁾ ADOT Materials Practice and Procedure Directive.

AC	CCEPTANCE SA	TABLE 7 (co MPLING GUIDE	ntinued) FOR BITUMIN	NOUS MIXTURES
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
417	Asphaltic Concrete (End Product) SHRP Volumetric Mix [For mixes containing reclaimed asphalt pavement	% Asphalt (1) Moisture Content (1) Gradation (1) Gyratory Density (1) Rice (1)	Roadway	4 per lot.
	(RAP), see PPD ⁽³⁾ .]	Compaction (Courses > 1½ inch in nominal thickness)	Roadway	20 cores per lot (10 locations/2 cores per location).
924	Stone Matrix Asphaltic Concrete	% Asphalt (1) Moisture Content (1) Gradation (1) Gyratory Density (1) Rice (1)	Roadway	4 per lot.
		Compaction (Courses > 1½ inch in nominal thickness)	Roadway	20 cores per lot (10 locations/2 cores per location).

⁽¹⁾ Independent Assurance Sampling and Testing required.

⁽³⁾ ADOT Materials Practice and Procedure Directive.

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ACCE	EPTANCE SAMP	TABLE LING GUIDE FO		NEOUS MATERIALS		
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY		
301 503 913 1010	Lime (for use in soil stabilization, mortar, and grout)	Chemical and Physical	Sampling for acceptance is not required for these	Acceptance is based on material being supplied from an Approved Material Source with associated Certificates of Compliance		
407 409 411 414 416 417	Hydrated Lime (for use as mineral admixture in asphaltic concrete mixes)		materials	for each production shift. See PPD ⁽³⁾		
302 304 501 503 505 601 602 912 913 1010	Hydraulic Cement (for use in soil stabilization, mortar, and grout)	Chemical and Physical	Sampling for acceptance is not required for these materials	Acceptance is based on material being supplied from an Approved Material Source with associated Certificates of Compliance for each production shift. See PPD (3)		
407 409 411 414 416 417	Portland Cement and Blended Hydraulic Cement (for use as mineral admixture in asphaltic concrete mixes)					
(3) ADOT I	Materials Practice	(3) ADOT Materials Practice and Procedure Directive.				

ACC	TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
501	Corrugated Metal Pipe (CMP) [Coated or Non-coated]			Certificate of Compliance required.	
501 1010	Precast Reinforced or Non- Reinforced Concrete Pipe	Compression (D-Load) Wall Thickness	Supplier's Yard	Certificate of Compliance required and one test for each 100 joints per size per class.	

	TABLE 8 (continued)				
	EPTANCE SAMP		R MISCELLA	NEOUS MATERIALS	
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
Refer to Special Provisions	Paving Brick, Cinder Block, Slump Block, Concrete Masonry Units (CMU)	Compression Absorption	Project	One sample (6 of like kind and size) per project.	
601	Vertical Restrainers	Tensile	Project	Certificate of Analysis required and 1 test loop per bridge or one test look for every 40 cable assemblies, whichever is greater.	
604 731 1004 1012	High Strength Bolts, Nuts, or Washers	Rockwell Hardness Wedge Tensile Strength	Project	Certificate of Analysis required and three samples per lot, or 0.1% of lots in excess of 3000, for each bolt diameter, including nuts and washers.	
731 1004	Anchor Bolts			Certificate of Analysis required.	
608 1007	Retroreflective Sheeting	Per Specifications		Certificate of Compliance required and also must be on the Department's Approved Products List	
608	Sign Panel Silk-Screened Characters			Certificate of Compliance required.	

ACCE	TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
704 708	Glass Beads	Roundness	Supplier's Yard	See PPD ⁽³⁾ .	
709		Gradation Refractive	(Recom- mended)	For other than Dual Component Pavement Markings:	
		Index	or Project	Certificate of Compliance required*, and if preapproved, a	
		Moisture Resistance		copy of the Central Lab test results.	
		Heavy Metal Concentration (if required)		If <u>not</u> preapproved by Central Lab, Certificate of Compliance required*, and a one gallon sample when material is supplied in a "super sack", or one full bag when material is supplied in a 50 pound bag.	
				*If required, a Certificate of Analysis must also be submitted (certifying that the Heavy Metal Concentration meets the specifications). ====================================	
				For Dual Component Pavement Markings:	
				Certificate of Analysis required**, and if preapproved, a copy of the Central Lab test results.	
				If <u>not</u> preapproved by Central Lab, Certificate of Analysis required**, and a one gallon sample when material is supplied in a "super sack", or one full bag when material is supplied in a 50 pound bag.	
				**The Certificate of Analysis shall also include a Material Safety Data Sheet (MSDS).	
(3) ADOT	Materials Practice	and Procedure [Directive.		

100		TABLE 8 (co		NECLIO MATERIALO
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MEOUS MATERIALS MINIMUM SAMPLING FREQUENCY
705	Preformed Plastic Pavement Marking	REQUIRED		Certificate of Compliance required*, and also must be on the Department's Approved Products List. *A Certificate of Analysis is also required (certifying that the Heavy Metal Concentration of the glass beads meets the specifications).
704	Thermoplastic Pavement Markings	Per Specifications	Manufac- turer	For precertification, the manufacturer shall prepare a one-gallon metal can powder sample per specifications.
			Project	Certificate of Compliance and a copy of the Central Materials Chemistry Lab test results are required. Also must be on the Department's Approved Products List. In-place field verification checks for thickness or sampling for composite testing should be made at the discretion of the Engineer, with plate samples that shall be 4"x12" galvanized steel plate without drop on beads, per specifications.

ACCI	TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFI-	TANCE SAME	TYPE OF		NEOUS WATERIALS	
CATION SECTION	MATERIAL	TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY	
706	Raised Pavement Markers	Per Specifications	Project	Certificate of Compliance required for markers and adhesive.	
				Adhesive must be on the Department's Approved Products List.	
				For non-reflective pavement markers, one sample (one marker) per lot per type.	
				For reflective pavement markers, one sample (three markers) per lot per type.	
708	Permanent Pavement Markings (Painted)	Per Specifications	Supplier or Contractor	A sample (one quart or pint in a metal can) of the material from each batch shall be submitted to Central Lab for testing prior to use.	
			Project	Certificate of Compliance and a copy of the Central Materials Chemistry Lab test results are required.	
				For thickness testing, check-samples of finished paint while being applied, at intervals determined by the Engineer.	

ACC	EPTANCE SAMP	TABLE 8 (co	ntinued) R MISCELLA	NEOUS MATERIALS
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
709	Dual Component Pavement Markings (Epoxy)	Per Specifications	Project	Certificate of Analysis required and must be on the Department's Approved Projects List. Random spot checks for thickness.
732	Polyvinyl Chloride (PVC) Pipe for Electrical Conduit	Resistance to Crushing	Project	One 7-foot sample per 5000 ft.
808	Polyvinyl Chloride (PVC) Pipe for Water	Wall Thickness Burst Pressure Diameter	Project	One 7-foot sample per 10,000 ft.
902	Chain Link Fabric			Certificate of Compliance required.
902	Fence Post and Rails			Certificate of Compliance required.
902 903	Miscellaneous Fence Hardware			Certificate of Compliance required.
902 903	Post Clips, Hog Rings, Tie Wire, or Tension Wire			Certificate of Compliance required.

۸۵۵۱	EDTANCE SAME	TABLE 8 (co		NEOUS MATERIALS
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S)	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
903	Barbed Wire or Barbless Wire	Tensile Strength Galvanization Diameter	Supplier's Yard or Project	Certificate of Compliance ⁽⁸⁾ required and one 4-foot sample per 50 rolls.
903	Fence Stays			Certificate of Compliance required.
903	T-Post	Weight/Foot Length	Supplier's Yard or Project	Certificate of Compliance (8) required
903	Woven Wire Fabric	Spelter Diameter Tensile Strength	Supplier's Yard or Project	Certificate of Compliance ⁽⁸⁾ required
904 913	Wire Rope			Certificate of Compliance required.

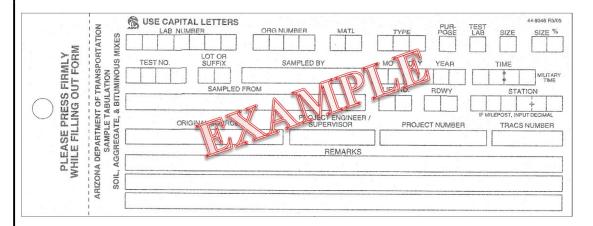
⁽⁸⁾ Certifying that manufacturing processes and application of coating occurred in the United States. (This certification required for Federal-Aid projects only. See Special Provisions for exception based on quantity being used.)

ACCI	PTANCE SAMP	TABLE 8 (co	ntinued) R MISCELLAI	NEOUS MATERIALS
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1002	Paint	Per Specifications		Paint for use on structural steel and other metallic surfaces:
			Project	Certificate of Compliance is required and the system must be on the Department's Approved Products List.
			======	Paint for use on concrete or masonry surfaces:
			Supplier or Contractor	A sample (one quart in a metal can) of the material from each batch must be submitted to Central Lab for testing prior to use.
			Project	Certificate of Compliance and a copy of the Central Materials Chemistry Lab test results are required. Also must be on the Department's Approved Products List.
			======	Paint for use on other than structural steel and other metallic surfaces, concrete surfaces, or masonry surfaces:
			Project	Certificate of Compliance is required and one sample (one quart in a metal can) per batch submitted to Central Lab for testing.

		TADLE 0 /	4:	
ACCI	EPTANCE SAMP	TABLE 8 (co LING GUIDE FO	minuea) R MISCELLAI	NEOUS MATERIALS
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1012	Guardrail Elements			Certificate of Compliance required.
1012	Guardrail Fasteners			Certificate of Compliance required.
1012	Guardrail Posts and Blocks	None		Certificate of Compliance required.
1014	Geosynthetics		Supplier and Project	Certificate of Analysis required. Must be on AASHTO Product Evaluation and Audit Solutions DataMine list.

TABLE 9 ILLUSTRATION OF SAMPLING TICKET AND LISTING OF CODES FOR PURPOSE, TESTING LAB, SIZE, AND ROADWAY

Sample Ticket



Purpose Codes

- A Acceptance
- M Miscellaneous
- C Control
- P Independent Assurance
- I Informational

Size Codes

Stockpiles:

- B Blend
- F Fine
- I Intermediate
- C Coarse
- K Coarsest

Bins:

- 9 Composite of Bins
- 1 Bin #1
- 2 Bin #2, etc.

Testing Lab Codes

- C Central Lab
- R Regional Lab
- P Project Lab

Roadway Codes

NB Northbound

SB Southbound, etc.

RA Ramp A

RB Ramp B, etc.

FR Frontage Road

XR Crossroad

TABLE 10 LISTING OF MATERIAL CODES AND TYPE CODES USED BY FAST [Field Office Automation SysTem] (9)

Material Description	Material Code	Type Description	Type Code
Admix	AD		
Aggregate	AG	Bituminous Treated Base	BB
Aggregate	AG	Cement Treated Base	СВ
Aggregate	AG	Cement Treated Subgrade	CS
Aggregate	AG	Lean Concrete Base	LC
Aggregate	AG	Lime Treated Subgrade	LS
Aggregate	AG	Road Mix	RM
Aggregate	AG	Soil Cement	SC
Aggregate Base	AB	Class 1	1
Aggregate Base	AB	Class 2	2
Aggregate Base	AB	Class 3	3
Aggregate Subbase	AS	Class 4	4
Aggregate Subbase	AS	Class 5	5
Aggregate Subbase	AS	Class 6	6
Arrestor Bed Aggregate	AA		
Asphaltic Concrete	AC	1/2" Asphaltic Concrete	12
Asphaltic Concrete	AC	1/2" Fine Band 417 AC	12F
Asphaltic Concrete	AC	1/2" Coarse Band 417 AC	12K
Asphaltic Concrete	AC	3/4" Asphaltic Concrete	34
Asphaltic Concrete	AC	3/4" Fine Band 417 AC	34F
Asphaltic Concrete	AC	3/4" Coarse Band 417 AC	34K
Asphaltic Concrete	AC	Asphaltic Concrete Friction Course (ACFC)	FC
Asphaltic Concrete	AC	Asphalt-Rubber Asphaltic Concrete (AR-AC)	RD
Asphaltic Concrete	AC	Asphalt-Rubber Asphaltic Concrete Friction Course (AR-ACFC)	RF
Asphaltic Concrete	AC	Base Mix	BM
Asphaltic Concrete	AC	Bituminous Treated Base	BB
Asphaltic Concrete	AC	AZ409 Miscellaneous Structural	409MI
Asphaltic Concrete	AC	AZ409 Miscellaneous Structural (Special Mix)	409SP

⁽⁹⁾ FAST may revise codes, delete codes, or add codes at various times. Users must assure that they are utilizing the current FAST codes.

TABLE 10 (continued) LISTING OF MATERIAL CODES AND TYPE CODES USED BY FAST [Field Office Automation SysTem] (9)

GGEB BT TAGE [Floid Gillow Automation Gyo-Tollin]					
Material Description	Material Code	Type Description	Type Code		
Asphaltic Concrete	AC	Other	ОТ		
Asphaltic Concrete	AC	Recycled Asphaltic Concrete	RC		
Asphaltic Concrete	AC	Road Mix	RM		
Asphaltic Concrete Friction	F0				
Course (ACFC)	FC				
Asphalt-Rubber Asphaltic	DD				
Concrete (AR-AC)	RD				
Asphalt-Rubber Asphaltic					
Concrete Friction Course	RF				
(AR-ACFC)					
Asphaltic Concrete	AC	Stone Matrix Asphalt	SMA		
Backfill	BF	Aluminum Pipe	AP		
Backfill	BF	Concrete Pipe	CP		
Backfill	BF	Metal Pipe	MP		
Backfill	BF	Plastic Pipe	PP		
Backfill	BF	Slurry	SL		
Backfill	BF	Special	SP		
Backfill	BF	Trench	TR		
Bedding Material	BM	Concrete Pipe	CP		
Bedding Material	BM	Corrugated Metal Pipe	MP		
Bedding Material	BM	PVC Pipe	PV		
Bedding Material	BM	Slurry	SL		
Blotter Material	BL				
Borrow	BW				
Bonded Wearing Course	BWC				
Cement Stabilized Alluvium	CS				
Coarse Aggregate	CA	Size 1	1		
Coarse Aggregate	CA	Size 2	2		
Coarse Aggregate	CA	Size 3	3		
Coarse Aggregate	CA	Size 4	4		
Coarse Aggregate	CA	Size 5	5		
Coarse Aggregate	CA	Size 6	6		
Coarse Aggregate	CA	Size 7	7		
Coarse Aggregate	CA	Size 8	8		
Coarse Aggregate	CA	Size 9	9		
-					

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TABLE 10 (continued) LISTING OF MATERIAL CODES AND TYPE CODES USED BY FAST [Field Office Automation SysTem] (9)

		,	
Material Description	Material Code	Type Description	Type Code
Coarse Aggregate	CA	Size 10	10
Coarse Aggregate	CA	Size 24	24
Coarse Aggregate	CA	Size 56	56
Coarse Aggregate	CA	Size 57	57
Coarse Aggregate	CA	Size 67	67
Coarse Aggregate	CA	Size 68	68
Coarse Aggregate	CA	Size 78	78
Coarse Aggregate	CA	Size 89	89
Coarse Aggregate	CA	Size 357	357
Coarse Aggregate	CA	Size 467	467
Coarse Aggregate	CA	Composite Samples	NA
Cover Material	CM		
Crash Barrel Sand	СВ		
Decomposed Granite	DG		
Embankment	EM		
Entrained Air (Air Content)	ET		
Filter Material	FM		
Fine Aggregate	FA		
Fly Ash	FF		
Granite Mulch	GM		
Granulated (Crumb) Rubber	GR		
Grout	GT		
Maintenance	MT		
Membrane Seal	MS		
Mineral Aggregate	MA		
Mineral Aggregate	MA	1/2" Asphaltic Concrete	12
Mineral Aggregate	MA	1/2" Fine Band 417 AC	12F
Mineral Aggregate	MA	1/2" Coarse Band 417 AC	12K
Mineral Aggregate	MA	3/4" Asphaltic Concrete	34
Mineral Aggregate	MA	3/4" Fine Band 417 AC	34F
Mineral Aggregate	MA	3/4" Coarse Band 417 AC	34K
Mineral Aggregate	MA	AZ409 Miscellaneous Structural	409MI
Mineral Aggregate	MA	AZ409 Miscellaneous Structural (Special Mix)	409SP

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TABLE 10 (continued) LISTING OF MATERIAL CODES AND TYPE CODES USED BY FAST [Field Office Automation SysTem] (9)

		,	
Material Description	Material Code	Type Description	Type Code
Mineral Aggregate	MA	Asphaltic Concrete Friction Course (ACFC)	FC
Mineral Aggregate	MA	Asphalt-Rubber Asphaltic Concrete (AR-AC)	RD
Mineral Aggregate	MA	Asphalt-Rubber Asphaltic Concrete Friction Course (AR-ACFC)	RF
Mineral Aggregate	MA	Base Mix	BM
Mineral Aggregate	MA	Other	ОТ
Mineral Aggregate	MA	Recycled Asphaltic Concrete	RC
Natural Ground	NG		
Other	ОТ		
Pipe Plating	PM		
Pneumatically Placed Mortar	NM		
Reclaimed Asphalt Pavement	RP	Coarse	С
Reclaimed Asphalt Pavement	RP	Fine	F
Reclaimed Asphalt Pavement	RP	Other	0
Rip Rap	RR		
Rock Mulch	RM		
Slurry	SL	3/8" Aggregate	38
Slurry	SL	#4 Aggregate	4
Structure Backfill	SB		
Subgrade	SG		
Subgrade Seal	SS		
Top Soil	TS		
Water	НО		
Winter Cinders	WC		
4			

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