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SECTION 5
Field Tested Materials
Guide (Type D&E Projects)

HOW TO USE THE FIELD TESTED MATERIALS ACCEPTANCE GUIDE FOR TYPE D OR E PROJECTS ONLY

The use of this guide will only be allowed when specifically called out in Section 00165. 10 (a) of the project Special Provisions. This guide summarizes the testing requirements for various materials used in the construction of ODOT/ Local Agency projects. It indicates what tests must be performed, who must perform them, and how frequently they must be performed. It includes materials which are sampled and tested in the field and materials which are field sampled, but sent elsewhere for testing. When a contract requires quality control (QC) by the Contractor, samples that must be sent elsewhere for testing are delivered to the Project Manager along with the Sample Data Sheet (Form 734-4000). Examples of this and other test report forms are in Section 3 of this manual.

Materials in this guide are listed in the numerical order of the Standard Specifications and the project Special Provisions. To find the testing requirements for a particular material, first determine what it will be used for and then refer to the appropriate specifications section for that product. For example, to look up testing requirements for aggregate to be used in asphalt concrete paving, refer to Section 00745.

Definitions

SAMPLE SIZES – Refer to Section 4(C) for guidance on material sample sizes, containers and labeling. Although designed for the ODOT Central Materials Laboratory (ODOT-CML), it is a good guide for samples being sent to any laboratory.

ASPHALT CONCRETE MIX DESIGNS – If the ODOT-CML is preparing the AC mix design, submit samples of the materials shown in Section 4(C) of this manual.

TYPES OF TESTS For TYPE D OR E PROJECTS ONLY

This Section is only to be used on projects where the Special Provisions specifically call out Contractor Quality Control Type D or E. The following types of tests will be performed by the Contractor or Engineer on materials and products required for contract work:

1. **Source Review** – This test type is addressed in Section 4(A) of this Manual. The Engineer will test unprocessed material from an aggregate source, if requested by the Contractor, to provide information about the quality of material. Tests will involve degradation, soundness, and abrasion, but may involve other tests. Favorable test results do not imply that processed material from the source will comply with specifications after it is processed as required for the project.
2. **Product Compliance** – This test type is addressed in Section 4(A) of this Manual. This section shall be complied with except that under Product Compliance the contractor may elect to use the ODOT Central Laboratory or a nationally credited private laboratory approved by the Engineer. The material shall not be incorporated into the project unless Product Compliance tests show favorable results.
3. **Quality Control** – The Contractor will perform quality control testing as described in Section 2 and specified in Section 5 of this Manual or as modified by the Special Provisions or Supplemental Standard Specifications.
4. **Quality Assurance** – The Engineer shall review documentation to assure its accuracy and completeness. The Engineer may elect to have additional testing performed by certified technicians.
5. **Production Control Testing** – Testing performed by the contractor or producer at a rate that assures the provided material meets the quality specified.
6. **Visual** – Visual Inspection: Examination and assessment of construction materials, by **OBSERVATION**, to determine if the materials appear to meet the contract requirements and are acceptable for incorporation into construction projects. Visual inspection, when stated in the contract, is a method generally used by the Project Inspector in lieu of normal sampling and testing of field tested materials as defined in section 00165.00 of the Standard Specifications to document quality. Supporting documentation for visual acceptance is, at a minimum, a field inspection report. Consult the construction contract for other acceptance document requirements.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance					
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E				
SECTION 00330-EARTHWORK												
(See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures	Gradation								Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E
Establishing Maximum Density (for Compaction)	Density Curve			T 99			3468		1/Soil type	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00300	Visual	Review Documentation for Acceptance
	Specific Gravity of Coarse Aggregates			T 85			3468					
	Family of Curves			R 75			3468FC					
Compaction	Deflection Testing	TM 158					1793S	1 Test per 3 ft. in depth				Review Documentation for Acceptance
	Nuclear Density Soils/Aggregates			T 310			1793S					
	Coarse Particle Correction			T 99				See Table 00330-1 Below				
	Deflection Testing	TM 158					1793S					
TABLE 00330-1 Frequency of Quality Control Testing												
	Individual Areas											Over 3500 yd² or yd³
	Existing Ground Surface							1 test per 1000 yd ²				1 test per 3000 yd ²
	Embankments							1 test per 500 yd ³				1 test per 3000 yd ³
	Excavations and Finished Subgrade							1 test per 1000 yd ²				1 test per 3000 yd ²
Stone Embankment Material (See Sec. 330.16(a))	Gradation								Contractor Quality Control Type D			Review Documentation for Acceptance
	Deflection Testing	TM 158							Contractor Quality Control Type D			Review Documentation for Acceptance
Compaction	Deflection Testing	TM 158					1793S	1 per Layer				Review Documentation for Acceptance
Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.												
Imported Topsoil (See Section 01040.14(b))	Compliance											Review Documentation for Acceptance
							4000	Contractor Testing 1/Source & 1/Soil type		Visual		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00331 - SUBGRADE STABILIZATION Aggregate backfill	Material must meet the requirements of Section 00331.10					Contractor Testing		Review Documentation for Acceptance
	Material must meet the requirements of Section 00340					Contractor Testing	Visual	
	Material must meet the requirements of Section 00331					Visual		
SECTION 00332 - SURFACING STABILIZATION Aggregate Base	Material must meet the requirements of Section 00332.10							Review Documentation for Acceptance
	Material must meet the requirements of Section 00332					Visual	Visual	
SECTION 00333 - AGGREGATE DITCH LINING Aggregate	Sampling Aggregates			R 90				Review Documentation for Acceptance
	Reducing Aggregates			R 76		1/Project or 1/Source	Visual	
	Sieve Analysis			T 27/T 11	1792			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00344 - TREATED SUBGRADE								
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime			T 27 T 219	4000	Contractor Testing 1/Source	Manufacture Compliance Statement	Review Documentation for Acceptance
Hydrated Lime Calcium Chloride Sodium Chloride	Materials must meet the requirements of Section 00344.10 and Test Results Certificate provided according to Section 00165.35(a)							
Portland Cement Water	Material must meet the requirements of Section 02010							
Establishing Maximum Density (for Compaction)	Material must meet the requirements of Section 00340							
Compaction	Density Curve				3468			
	Deflection Testing	TM 158			1793S	See Special Provisions and Table 00344-1 Below	Visual	
	Deflection Testing Nuclear Density Soils/Aggregates	TM 158		T 310	1793S			Review Documentation for Acceptance
	Coarse Particle Correction			T 99				
TABLE 00344-1 Frequency of Quality Control Testing								
Individual Areas				Under 3500 yd²		Over 3500 yd²		
Finished Subgrade				1 test per 1000 yd ²		1 test per 3000 yd ²		

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00360 - Drainage Blankets								
Granular Drainage Blanket	Sampling Aggregates Reducing Aggregates Gradation			R 90	Visual	A sublot equals 1000 Tons	Review Documentation for Acceptance	
				R 76				
Sand Drainage Blanket	Sampling Aggregates Reducing Aggregates Gradation			T 27/T 11	1/sublot minimum 1/Source per Project			
				R 90				
Establishing Maximum Density (for Compaction)	Density Curve			R 76	1/Source and Type			
				T 27/T 11				
Compaction	Deflection Testing	TM 158		T 99	1 Test per 3 ft. in depth			
				T 85				
	Deflection Testing Nuclear Density Soils/Aggregates Coarse Particle Correction	TM 158		T 310	See Table 00360-1 Below	Visual	Review Documentation for Acceptance	
				T 99				
TABLE 00360-1 Frequency of Quality Control Testing								
Individual Areas				Under 3500 yd²		Over 3500 yd²		
Existing Ground Surface				1 test per 1000 yd ²		1 test per 3000 yd ²		
Finished Surfaces				1 test per 1000 yd ²		1 test per 3000 yd ²		

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E				
SECTION 00390 - RIPRAP PROTECTION											
Fill Material & Riprap	Gradation See 00390.11(c)1					Contractor Furnished Testing	Visual	Review Documentation for Acceptance			
	Degradation Soundness Specific Gravity of Coarse Aggregates	TM 208		T 104 (1) T 85	4000 1825	Contractor Furnished Testing	Provide History of Passing Tests				
Filter Blanket	Gradation See 00390.13					Contractor Testing When Required	Visual	Review Documentation for Acceptance			
	Sampling Aggregates Reducing Aggregates Sieve Analysis			R 90 R 76 T 27/T 11	1792	1/Project	Visual				
Grouted Riprap Sand	Soundness Lightweight Pieces			T 104 T 113	4000	Contractor Furnished Testing	Provide History of Passing Tests	Review Documentation for Acceptance			
Portland Cement											
Material must meet the requirements of Section 02010											

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00396 -SHOTCRETE SLOPE STABILIZATION							
Aggregate Production and Mixture							
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates (2)(3) Sieve Analysis			R 90 R 76 T 27/T 11 T 27/T 11	1792	1/Sublot	Provide History of Passing Tests
(2) Coarse Aggregate (See Section 02690.20)	(3) Fineness Modulus (1)(2) Wood Particles (3) Sand Equivalent	TM 225		T 176			
(3) Fine Aggregate (See Section 02690.30)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96 T 113 T 21	4000	Contractor Furnished Testing	Provide History of Passing Tests
	(2) Dry Rodded Unit Weight (2)(3) Bulk Specific Gravity & Absorption			T 19 (3) T 84 & (2) T 85			Start of production and when changes in aggregate occurs
Portland Cement Admixtures							
Mixing Water							
Production Testing (See Section 00396.14)							
(5) 3 Cores minimum per Panel							
Compression Test Cores	Strength			T 22	4000C	1/Set Cores per Test panel	1/Set Cores per Test panel
							Review Documentation for Acceptance

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance								
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E									
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL TRENCH FOUNDATION (Excavation Below Grade Only) (See Section 405.44)								Review Documentation for Acceptance								
									Selected general backfill						Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00400	
									Selected granular backfill							
									Selected stone backfill							
									Other approved material							Visual
Establishing Maximum Density	Density Curve			T 99	3468		1/Soil Type or Aggregate Gradation	Visual								
	Specific Gravity of Coarse Aggregates			T 85												
	Family of Curves			R 75	3468FC											
	Nuclear Density of Soils/Aggregates Coarse Particle Correction			T 310 T 99	1793S		1 Test per 300 ft. of Trench									
Compaction							Visual	Review Documentation for Acceptance								
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>																

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)										
Bedding 3/8" - 0 PCC fine aggregate (See Section 02690.30(h))	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11		Contractor Provided Testing	Visual	Review Documentation for Acceptance	
						1792	Contractor Provided Testing	Visual		
Commercial 3/4" - 0 Aggregate							Contractor Provided Testing	Visual	Review Documentation for Acceptance	
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11		Contractor Provided Testing	Visual		
Reasonably well graded sand, maximum 3/8" to dust							Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Commercial available 3/8"-0 or No.10 - 0 sand							1 per Sublot	Visual		
Continuous cradle of Commercial Grade Concrete	Material must meet the requirements of Section 00440						Contractor Provided Testing	Visual	Review Documentation for Acceptance	

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)										
Pipe Zone Material Flexible Pipe	Use the Listed Material requirements under Bedding									
Rigid Pipe: Aggregate Base 1" - 0 or 3/4" - 0 Aggregate (See Section 02630.10)	Sampling Aggregates Reducing Aggregates Sieve Analysis			R 90 R 76 T 27						
						1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate							Contractor Provided Testing	Visual		
Establishing Maximum Density (Flexible and Rigid Pipe) (¹) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			(¹) T 99			1/Source or Aggregate Gradation	Visual		
	Specific Gravity of Coarse Aggregates			T 85						
	Coarse Particle Correction			T 99						
Compaction	Nuclear Density Soils/Aggregates			T 310			1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual	Review Documentation for Acceptance	
						1793B				
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)										
Trench Backfill										
Class A Backfill - Native or common Material		Material must meet the requirements of Section 00330.43				Contractor Provided Testing	Visual	Review Documentation for Acceptance		
Class B Backfill - 1"-0 or 3/4"-0 Granular Material		Material must meet the requirements of Section 00641				Contractor Provided Testing	Visual	Review Documentation for Acceptance		
Class C Backfill - Clean sand with 100% minus 1/4" material						Contractor Provided Testing	Visual	Review Documentation for Acceptance		
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine						Contractor Provided Testing	Visual	Review Documentation for Acceptance		
Class E Backfill - Controlled Low Strength Material (CLSM)		Material must meet the requirements of Section 00442				Contractor Provided Testing	Visual	Review Documentation for Acceptance		
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve		(1) T 99		3468	Contractor Provided Testing	Visual	Review Documentation for Acceptance		
	Specific Gravity of Coarse Aggregates		T 85		3468	1/Soil Type or Aggregate Gradation	Visual	Review Documentation for Acceptance		
	Family of Curves		R 75		3468FC	1/Soil Type or Aggregate Gradation	Visual	Review Documentation for Acceptance		
Compaction	Nuclear Density Soils/Aggregates		T 310		1793S	(C) 1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual	Review Documentation for Acceptance		
	Coarse Particle Correction		T 99		or 1793B	(C) 1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual	Review Documentation for Acceptance		
<p>(C) Density testing is based on cumulative lineal meters or feet of pipe placement.</p> <p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E			
SECTION 00430 - SUBSURFACE DRAINS											
Granular Drain Backfill Material	Sampling Aggregates Reducing Aggregates Sieve Analysis			R 90 R 76 T 27		A Sublot equals 1000 Tons	Review Documentation for Acceptance				
									1792	Contractor Provided Testing	Visual
									4000	Contractor Provided Testing	Minimum 1 Per Project
Special Filter Material See Section 00430.46(a)	Abrasion Degradation	TM 208		T 96							
	Compaction		See section 405 for compaction requirements								
SECTION 00440 - COMMERCIAL GRADE CONCRETE											
Mixture	Sampling Concrete	TM 2		T 152 T 121 T 119 T 309	3573WS or 4000C			Contractor Provided Testing			
	Air Content of Concrete										
	Density (Unit Weight) of Concrete										
	Yield										
Slump of Concrete											
Modifiers			Material must meet the requirements of Section 02030					Contractor Provided Testing			
Admixtures			Material must meet the requirements of Section 02040					Manufacture Compliance Statement			
Portland Cement			Material must meet the requirements of Section 02010								
Structural Items	Fabrication of Concrete Cylinders/Beams			R 100	4000C			Contractor Provided Testing			
	Compressive Strength of Concrete			T 22				(M) (S) 1 Set / Day Minimum			
	Fabrication of Concrete Cylinders/Beams			R 100	4000C			Contractor Provided Testing			
Except Visual Acceptance Items (See section 00440.14(a))	Compressive Strength of Concrete			T 22				(M) (S) 1 Set/20 yd ³ Cumulative (Maximum 1 Set/day)			
(S) 1 Set Represents a minimum of 3 Cylinders								Review Documentation for Acceptance			
(M) Per Mix Design & Source											

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)										
CLSM Mixture	Mix Proportions Trial Batch Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete									
		R 100			4000C	1/Project or Source	Contractor Provided Testing	Review Documentation for Acceptance		
		T 22								
Modifiers		Material must meet the requirements of Section 02030								
Admixtures		Material must meet the requirements of Section 02040								
Portland Cement		Material must meet the requirements of Section 02010								
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405										
Trench Work										
Excavation, bedding, pipe zone and trench backfill		See Section 00405 for pipes less than 72"								
Excavation, bedding, pipe zone and trench backfill		See Section 00510 for pipes greater than 72"								
Concrete Blocks		Material must meet the requirements of Section 00440								
		Contractor Provided Testing				Contractor Provided Testing	Review Documentation for Acceptance			

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00450 - STRUCTURAL PLATE PIPE, PIPE ARCH AND ARCH										
Commercial Grade Concrete in appurtenances		Material must meet the requirements of Section 00440								
Trench Work										
Excavation and Backfill		Operations must meet the requirements of Section 00510								
Trenches in Unstable Areas										
Granular Structural Backfill		Material must meet the requirements of Section 00510								
Establishing Maximum Density										
⁽¹⁾ Method "A"	Density Curve				⁽¹⁾ T 99					
	Specific Gravity of Coarse Aggregates Coarse Particle Correction	TM 223			T 85		Contractor Provided Testing	Visual		
Compaction	Nuclear Density of Soils/Aggregates				T 310		Contractor Provided Testing	Visual		
						1793 B	Contractor Provided Testing	Visual		Review Documentation for Acceptance
Structure Backfill (Section 00450.46)		Material and Operation must meet the requirements of Section 00510.48(d)								
SECTION 00459 - CAST IN PLACE CONCRETE										
Concrete		Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17								
							Contractor Provided Testing	Contractor Provided Testing		
Backfill Material		Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46								
							Contractor Provided Testing	Visual		Review Documentation for Acceptance

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00460 - PAVED CULVERT END SLOPES								
Commercial Grade Concrete	Material must meet the requirements of Section 00440					Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS								
Commercial Grade Concrete	Material must meet the requirements of Section 00440							
Base Drain Backfill	Material must meet the requirements of Section 00470.17					Contractor Provided Testing	Visual	Review Documentation for Acceptance
Excavation, Backfill and Foundation Stabilization	Material must meet the requirements of Section 00405							
SECTION 00480 - DRAINAGE CURBS								
Commercial Grade Concrete	Material must meet the requirements of Section 00440					Contractor Provided Testing	Visual	Review Documentation for Acceptance
Dense Graded H/MAC Mixture	Material must meet the requirements of Section 00740							

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES										
Commercial Grade Concrete		Material must meet the requirements of Section 00440				Contractor Provided Testing	Visual	Review Documentation for Acceptance		
High Early Strength Concrete		Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11								
Backfill Operations		Backfill Excavations according to section 405								
Filling Abandoned Pipes, Manholes and Catch Basins (See section 00490.44)										
Backfill Operations (Roadway)		Material must meet the requirements of Section 2630								
Establishing Maximum Density (1) Method "A"	Density Curve			(1) T 99		Contractor Provided Testing	Visual	Review Documentation for Acceptance		
	Specific Gravity of Coarse Aggregates Coarse Particle Correction	TM 223		T 85	3468 B					
Compaction	Nuclear Density of Soils/Aggregates			T 310	1793B	1 Test per 100 ft. and every 1.5' of Fill	Visual			
Backfill Operations Landscaped or Unimproved Roadways		Material must meet the requirements of Section 00330.13								
Top 1.0' of Backfill Region		Material must meet the requirements of Section 00330.11								
SECTION 00495 - TRENCH RESURFACING										
Resurfacing Materials		See Section 00495.40 for Material Requirements				Contractor Provided Testing	Visual	Review Documentation for Acceptance		

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL								
Soils, Soil/Aggregate Mixtures and Graded Aggregates								
Granular Structure Backfill (See Section 02630.10) (1) Perform a minimum of 3 tests QL's required	Sampling Aggregates Reducing Aggregates (1) Sieve Analysis Fracture (Method 1) Sand Equivalent							
		R 90 R 76 T 27 T 335 T 176				1/Sublot (Minimum 1/Project)	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00500	Review Documentation for Acceptance
Product Compliance	Abrasion Degradation Plasticity Index Sieve Analysis		TM 208				Contractor Provided Testing	Minimum 1 per Project
					4000			
Establishing Maximum Density (2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve Specific Gravity of Coarse Aggregates							
					3468		1/Soil type or Aggregate Gradation	Visual
					3468			
Compaction	Coarse Particle Correction Nuclear Density Soils/Aggregates							
					1793B		Min of 1 per lift	Visual
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)										
Soils, Soil/Aggregate Mixtures and Graded Aggregates										
Granular Wall Backfill (See Section 02630.11)	Sampling Aggregates Reducing Aggregates (1) Sieve Analysis Fracture (Method 2)				R 90 R 76 T 27 T 335	1792	1/Sublot (Minimum 1/Project)	Contractor Provided Testing	Review Documentation for Acceptance	
							A Sublot equals 1,000 Tons			
(1) Perform a minimum of 3 tests QL's required	Abrasion Degradation	TM 208			T 96	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance	
(2) Compaction	(2) Deflection Testing	TM 158				1793B	1/Sublot (Minimum 1/Project)	Visual	Review Documentation for Acceptance	
Note: Compaction must meet the requirements of section 00330.43c <i>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</i>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00512 - DRILLED SHAFTS								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates							Review Documentation for Acceptance
	Reducing Aggregates	R 90						
(2) Perform a minimum of 3 tests QL's required	(2)(3)(4) Sieve Analysis	R 76			1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	(4) Fineness Modulus	T 27/T 11						
(3) Coarse Aggregate (See Section 02690.20)	(1)(3) Wood Particles	T 27/T 11						Review Documentation for Acceptance
	(4) Sand Equivalent	T 176						
(4) Fine Aggregate (See Section 02690.30)	Soundness	T 104			4000	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	Abrasion	T 96						
	Degradation	T 113			4000	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	Lightweight Pieces Organics	T 21						
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight	T 19			1825 1825C	Minimum of 1 per Project	Minimum of 1 per Project	Review Documentation for Acceptance
	(3) Specific Gravity of Coarse Aggregate	T 84						
Drilling Slurry	(4) Specific Gravity of Fine Aggregate	T 85			1825	Minimum of 1 per Project	Minimum of 1 per Project	Review Documentation for Acceptance
Grout	Materials must meet the requirements of Section 02001.10					Manufacture Compliance Statement	Manufacture Compliance Statement	Review Documentation for Acceptance
	Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)					Contractor Provided Testing	Contractor Provided Testing	
Mixing Water	Material must meet the requirements of Section 02080					Manufacture Compliance Statement	Manufacture Compliance Statement	Review Documentation for Acceptance
	Material must meet the requirements of Section 02020					Contractor Provided Testing	Contractor Provided Testing	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance
		ODOT	WAQTC		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00512 - DRILLED SHAFTS (CONTINUED)							
Portland Cement Concrete	Sampling Concrete Slump of Concrete Concrete Temperature Density (Unit Weight) of Concrete Yield Water/Cement Ratio	TM 2	T 119 T 309 T 121 T 121 T 121	3573WS or 4000C	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	Review Documentation for Acceptance
					R 100 T22	4000C	
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>							
TABLE 00512-1 Frequency of Quality Control Testing							
Minimum frequencies per Class of concrete based on daily production records.							
Production		Frequencies					
0 to 100 yd ³ on a single day		1 Set each day					
Quantity Over 100 yd³							
100 to 600 yd ³ on a single day		1 Set per each 100 yd ³ or portion thereof					
over 600 yd ³ on a single day		1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control		Quality Assurance	
		ODOT	ASTM		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS								
Resin Bonded Anchor System								
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)					A Sublot equals 50 Anchors			Project Manager Type D & E
<i>Materials must meet the requirements of Section 00535.10</i>								
Anchor Installation	Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements	E 488		5189		One demonstration Test includes 3 anchors (Resin shall be from same lot)	Visual
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements	E 488		5189			^(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)	Visual per Sublot
^(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	ASTM	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS (continued)								
Mechanical Anchor System								
Mechanical Anchors								
Anchor Installation								
Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements	E 488			5292	One demonstration Test includes 3 anchors		Visual
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements	E 488			5292	^(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)		Visual per Sublot
^(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00540 - CONCRETE BRIDGES							
Aggregate Production	Sampling Aggregates						A Sublot equals 1000 Mg or 1000 Tons
(1) QAE may waive after 5 sublots/shifts	Reducing Aggregates			R 90			Review Documentation for Acceptance
(2) Perform a minimum of 3 tests	(2)(3)(4) Sieve Analysis			R 76			
	(4) Fineness Modulus			T 27/T 11	Contractor Provided Testing	Contractor Provided Testing	
	(1)(3) Wood Particles	TM 225		T 27/T 11			
(3) Coarse Aggregate (See Section 02690.20)	(4) Sand Equivalent			T 176			
	Soundness			T 104			
	Abrasion			T 96			
	Degradation	TM 208		T 113	Minimum 1 per Project	Minimum 1 per Project	
(4) Fine Aggregate (See Section 02690.30)	Lightweight Pieces Organics			T 21			
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight			T 19			Manufacture Compliance Statement
	(3) Specific Gravity of Coarse Aggregate			1825	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	
	(4) Specific Gravity of Fine Aggregate			1825C			
Mixing Water				T 85			Review Documentation for Acceptance
				T 84			
		Materials must meet the requirements of Section 02001.10					
		Material must meet the requirements of Section 02020					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)							
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control		Quality Assurance						
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E					
SECTION 00540 - CONCRETE BRIDGES (CONTINUED)													
Portland Cement Concrete													
(1) AASHTO T 196 required for lightweight concrete	Sampling Concrete (1) Air Content of Concrete Slump of Concrete Concrete Temperature Density (Unit Weight) of Concrete Yield Water/Cement Ratio Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete	TM 2											
				3573WS or 4000C	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	Review Documentation for Acceptance						
(S) 1 Set Represents a minimum of 3 Cylinders (M) Per Mix Design & Source				4000C									
<p>TABLE 00540-1 Frequency of Quality Control Testing</p> <p>Minimum frequencies per Class of concrete based on daily production records.</p> <table border="1"> <thead> <tr> <th><u>Production</u></th> <th><u>Frequencies</u></th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td>1 Set each day</td> </tr> <tr> <td><u>Quantity Over 100 yd³</u> 100 to 600 yd³ on a single day over 600 yd³ on a single day</td> <td>1 Set per each 100 yd³ or portion thereof 1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>								<u>Production</u>	<u>Frequencies</u>	0 to 100 yd ³ on a single day	1 Set each day	<u>Quantity Over 100 yd³</u> 100 to 600 yd ³ on a single day over 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof 1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³
<u>Production</u>	<u>Frequencies</u>												
0 to 100 yd ³ on a single day	1 Set each day												
<u>Quantity Over 100 yd³</u> 100 to 600 yd ³ on a single day over 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof 1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³												

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY								
Aggregate Production	Moisture Content of Aggregate & Soil							
				T 255/265	1792	At time of mixing the polymer resin. See 00556.10-b.		
Polymer Resin						Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
		Material must meet the requirements of section 00556.10						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00557 - PREMIXED POLYMER CONCRETE OVERLAYS							
Resin Primer	Material must meet the requirements of section 00557.10				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Polyester Resin Binder Including (Initiator, Accelerators & Inhibitors)	Material must meet the requirements of section 00557.12 (a-c)				Contractor Provided Testing	Contractor Provided Testing	
Product Compliance	Specific Gravity of Coarse Aggregate			T 85			Review Documentation for Acceptance
	Specific Gravity of Fine Aggregate			T 84			
	Sieve Analysis			T 27/T 11		1/Project or Source	
	Moisture Content of Aggregate & Soil Fracture (Method 1)			T 255/265			
	Moisture Content Sieve Analysis			T 27/11	1792	During the Trial Overlay Strip	
	⁽¹⁾ Moisture Content of Aggregate & Soils			T 255/265		During Production	
	Sieve Analysis			T 27/11	1792	Contractor Provided Testing	
	Density (Unit Weight) of Concrete			T 121	3573WS	^(B) 1/Batch	
	Static Modulus of Elasticity		TM 759		4000C	^(M) Minimum 1 set/batch	
						⁽²⁾ 1 set per 10 batches placed or minimum 1 set/day	
							Review Documentation for Acceptance

^(M) 1 set Represents a minimum of 3 (4"x8") cylinders cast per 00557.44(e).

⁽²⁾ Submit to ODOT - CML

^(B) Batch is defined "Per Mixer or Portion placed".

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS										
Aggregate Production										
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90						
	Reducing Aggregates			R 76						
(2) Perform a minimum of 3 tests, QL's required	(2)(3)(4) Sieve Analysis			T 27/T 11	1792					
	(4) Fineness Modulus			T 27/T 11	1792					
	(4) Sand Equivalent			T 176						
(3) Coarse Aggregate (See Section 02690.20)	(1)(3) Elongated Piece		TM 229		1792					
	(1)(3) Wood Particles		TM 225							
(4) Fine Aggregate (See Section 02690.30)	Abrasion			T 96	4000					
	Degradation			T 104						
	Soundness		TM 208	T 113						
	Lightweight Pieces Organics			T 21	4000					
(3) Dry Rodded Unit Weight				T 19	1825					
				T 85	1825C					
(4) Specific Gravity of Coarse Aggregate				T 84	1825					
Portland Cement	Modifiers	Materials must meet the requirements of Section 02001.10								
		Manufacture Compliance Statement								
Admixtures	Mixing Water	Materials must meet the requirements of Section 02020								
		Manufacture Compliance Statement								
Review Documentation for Acceptance										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E		
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS (CONTINUED)											
Portland Cement Concrete											
(1) AASHTO T 196 required for lightweight concrete	Sampling Concrete	TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000 C	A subplot equals 1 set of tests per 50 yd3	Contractor Provided Testing	Review Documentation for Acceptance				
	(1) Air Content of Concrete										
	Slump of Concrete										
	Concrete Temperature										
	Density (Unit Weight) of Concrete										
	Yield										
W/C Ratio											
Latex Modified Concrete	Fine Aggregate Moisture	T 255 / T 265	1792	Contractor Provided Testing	Review Documentation for Acceptance						
	Mixer Calibration										
	Fabrication of Concrete Cylinders/Beams										
(M) Per Mix Design & Source	Compressive Strength of Concrete	R 100	4000C	(M) (S) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift	Review Documentation for Acceptance						
		T 22									
(S) 1 Set Represents a minimum of 3 Cylinders											
SECTION 00590 - POLYMER MEMBRANE											
Broadcast Aggregate											
Moisture Content of Aggregates & Soils	Moisture Content of Aggregates & Soils		T 255/265	1792	Test at time of packaging and shipment. See Section 00590.10-c	Test at time of packaging and shipment. See Section 00590.10-c	Review Documentation for Acceptance				
Moisture Content of Aggregates & Soils	Moisture Content of Aggregates & Soils		T 255/265	1792	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c	Review Documentation for Acceptance				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS									
Aggregate Production									
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	Sieve Analysis Un-washed Sand Equivalent Fracture (Method 1)			T 27 T 176 T 335	1792 1792	1/Sublot 1/5 Sublots	Visual	Review Documentation for Acceptance	
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project									
⁽³⁾ Modular Block Core and Drainage Backfill (Product Compliance)	Soundness			T 104	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Abrasion Degradation	TM 208		T 96					
	Lightweight Pieces			T 113	4000				
A Sublot equals 1,000 Tons									
⁽³⁾ Modular Block Core and Backfill ⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	⁽²⁾ Sieve Analysis			T 27/T 11	1792	1/Sublot or Minimum 1 Per Project	Visual	Review Documentation for Acceptance	
	⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		T 335	1792				
⁽²⁾ Perform a minimum of 3 tests, QL's required									
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Sieve Analysis Un-washed			T 27	4000	1/Sublot	Visual		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS									
Aggregate Production									
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Specific Gravity of Coarse Aggregates	TM 208			T 104 (1) T 85	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance
						1825			
(1) Apparent Specific Gravity and Absorption	Gradation						1/Sublot (Minimum 1/Project)	Visual	
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00596A - MSE RETAINING WALLS								
Aggregate Production								
MSE Granular Wall Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index pH of Soil Soil Resistivity Organic Content	TM 208		T 96 T 11 T 90 T 289 T 288 T 267	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance
						Contractor Testing	Minimum 1 per Project	
						Contractor Testing	Minimum 1 per Project	
						Contractor Testing	Minimum 1 per Project	
						Contractor Testing	Minimum 1 per Project	
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project								
A Sublot Equals or 2000 Tons								
MSE Granular Wall Backfill (1) Perform a minimum of 3 tests, QL's required	Sampling Aggregates Reducing Aggregates (1) Sieve Analysis Un-Washed Sand Equivalent Fracture (Method 1)			R 90 R 76 T 27 T 176 T 335	1792	1/Sublot (Minimum 1/Project)	Visual	Review Documentation for Acceptance
						1/Sublot (Minimum 1/Project)	Visual	
						1/5 Sublots	Visual	
						1/5 Sublots	Visual	
Placement Establishing Maximum Density (2) Method A	Density Curve Specific Gravity of Coarse Aggregates Agg. Base Coarse Particle Correction			(2) T 99 T 85	3468 3468	1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance
						1/Aggregate Gradation/Per Source	Visual	
						1/Aggregate Gradation/Per Source	Visual	
Compaction	Nuclear Density of Soils/Aggregates Deflection Testing	TM 223 TM 158		T 310	1793B	1/100 yd ³ (Minimum 1/day)	Visual	Review Documentation for Acceptance
					1793B	1 per layer	Visual	
					1793B	1 per layer	Visual	

Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS									
Aggregate Production									
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Sampling Aggregates			R 90		1/Sublot	Visual	Review Documentation for Acceptance	
	Reducing Aggregates			R 76					
	Sieve Analysis Un-Washed Sand Equivalent			T 27	1792				
Fracture (Method 1)			T 176	1792	1/5 Sublots	Visual			
A Sublot equals 1000 Tons Minimum 1/Project									
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project									
⁽³⁾ Modular Block Core and Backfill (Product Compliance)	Soundness			T 104	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Abrasion Degradation	TM 208		T 96	4000				
	Lightweight Pieces			T 113	4000				
A Sublot equals 1000 Tons									
⁽³⁾ Modular Block Core and Backfill ⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90		1/Sublot (Minimum 1 Per Project)	Visual	Review Documentation for Acceptance	
	Reducing Aggregates			R 76					
	⁽²⁾ Sieve Analysis ⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		T 27/T 11 T 335	1792 1792				
⁽²⁾ Perform a minimum of 3 tests, QL's required									
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Sieve Analysis Un-Washed			T 27	4000	1/Sublot	Visual		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS									
Aggregate Production									
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Specific Gravity of Coarse Aggregates	TM 208			4000 1825	T 104 (1) T 85	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
							1/Sublot	Visual	
(1) Apparent Specific Gravity and Absorption	Gradation								
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS										
Aggregate Production										
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation									
	Sieve Analysis	TM 208			4000	T96	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Plasticity Index				4000	T 11 T 90				
A Sublot Equals 2000 Tons										
Retaining Wall Granular Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Aggregates					R 90				
	Reducing Aggregates					R 76 T 27		1/Sublot (Min. 1 Per Project)	Visual	Review Documentation for Acceptance
	(¹) Sieve Analysis Un-Washed Sand Equivalent				1792	T 176				
Placement Establishing Maximum Density (²) Method A	Fracture (Method 1)					T 335		1/5 Sublots	Visual	
	Density Curve				3468	(²) T 99				
	Specific Gravity of Coarse Aggregates					T 85		1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance
Compaction	Agg. Base Coarse Particle Correction	TM 223			3468					
	Nuclear Density of Soils/Aggregates				1793B	T 310		1/100 yd ³ (Minimum 1/day)	Visual	
	Deflection Testing	TM 158			1793B			1 per layer	Visual	
Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS										
Aggregate Production										
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation									
	Sampling Aggregates Reducing Aggregates	TM 208			4000	Contractor Provided Testing	Minimum 1 Per Project			Review Documentation for Acceptance
	Sieve Analysis Un-Washed			T 96		1/Sublot	Visual			
						4000				
Retaining Wall Granular Backfill										
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation									
	Sieve Analysis	TM 208			4000	Contractor Provided Testing	Minimum 1 Per Project			Review Documentation for Acceptance
	Plasticity Index			T 96 T 11 T 90	4000					
Retaining Wall Granular Backfill										
⁽¹⁾ Perform a minimum of 3 tests, QL's required	Sampling Aggregates Reducing Aggregates									
	⁽¹⁾ Sieve Analysis Un-Washed				1792	1/Sublot	Visual			Review Documentation for Acceptance
	Fracture (Method 1)			T 335	1792	1/5 Sublots	Visual			
A Sublot Equals 2000 Tons										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance				
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E					
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS												
Placement												
Retaining Wall Granular Backfill												
Establishing Maximum Density	Density Curve			(1) T 99	3468							Review Documentation for Acceptance
(1) Method A	Specific Gravity of Coarse Aggregates			T 85	3468			1/Aggregate Gradation/Per Source	Visual			
Compaction	Agg. Base Coarse Particle Correction		TM 223									
	Nuclear Density of Soils/Aggregates			T 310	1793B			1/100 yd ³ (Minimum 1/day)	Visual			
	Deflection Testing		TM 158		1793B			1 per layer	Visual			Review Documentation for Acceptance
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>												

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E				
SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE											
Aggregate Subbase Grading (See 00635.10)	Abrasion	T 96	4000	Contractor Provided Testing	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	Review Documentation for Acceptance			
									Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Sand Equivalent	R 90 R 76 T 27	1792

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)					Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance						
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E							
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS														
Aggregate Production	Abrasion				T 96	4000	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance					
Aggregate Subbase Grading (See 00641.10(b))	Sampling Aggregates Reducing Aggregates				R 90 R 76 T 27	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance					
	Sieve Analysis Un-Washed Sand Equivalent				T 176									
Aggregate Base and Shoulders	Abrasion Degradation	TM 208				4000	Minimum 1 per Project	Submit Required Documentation	Review Documentation for Acceptance					
Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11)	Sampling Aggregates Reducing Aggregates				R 90 R 76 T 27	A Sublot equals 2000 Tons								
	(1) Sieve Analysis Un-Washed				T 176	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance					
	(2) Sand Equivalent													
(1) Perform at least 3 tests (2) May be waived by QAE	Fracture (Method 1)				T 335	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance					
PLACEMENT														
Aggregate Base Plant Mix Applications Only Aggregate (Mixture)	Sampling Aggregates Reducing Aggregates				R 90 R 76 T 255 & T 265		1/Sublot or minimum 1 per day	Visual	Review Documentation for Acceptance					
	Moisture Content of Aggregates & Soils				(3) T 99	1792								
Establishing Maximum Density & Optimum Moisture (Mix Design)	Density Curve	TM 223				3468	Each Size Per Source	Visual	Review Documentation for Acceptance					
	Agg. Base Coarse Particle Correction				T 85									
(3) Method A	Specific Gravity of Coarse Aggregates							Visual	Review Documentation for Acceptance					
Compaction (Individual tests must meet Specification)	Deflection Testing	TM 158				1793B	1 per Sublot	Visual	Review Documentation for Acceptance					
	Nuclear Density of Soils/Aggregates				T 310	1793B	(D) 5 Tests Per Sublot	Visual	Review Documentation for Acceptance					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)								
Placement								
Aggregate Subbase								
Compaction	Deflection Testing	TM 158			1793 B	1 per Layer	Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00680 - STOCKPILED AGGREGATES									
Aggregate Base and Shoulders (See Section 00641)									
(1) Perform at least 3 tests (2) May be waived by QAE	Abrasion Degradation	TM 208		T 96	4000	Minimum 1 per Source/Project	Visual	Review Documentation for Acceptance	
	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	(1) Sieve Analysis Un-Washed (2) Sand Equivalent			T 27	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
	Fracture (Method 1)			T 176					
				T 335	1792	1/5 Sublots	Visual		
A Sublot equals 2,000 Tons									
Aggregate (Sanding Aggregate)									
(3) May be waived by QAE	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	(1) Sieve Analysis Un-Washed (3) Cleanness Value	TM 227		T 27	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
	Abrasion Degradation Lightweight Pieces	TM 208		T 96	4000	Minimum 1 per Source/Project	Visual		
	Fracture (Method 1)			T 113					
	Elongated Pieces	TM 229		T 335	1792	1/5 Sublots & Start of Production	Visual	Review Documentation for Acceptance	
	Wood Particles	TM 225			1792				
A Sublot equals 1000 Tons									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)							
Emulsified AC Aggregate Aggregate Production (See Sections 00705, 00706, 00710, 00711, 00712 and 00715) (1) QAE may waive after 5 sublots/shifts (2) QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production Aggregate (Other)							
	Abrasion	TM 208					
	Degradation						
	Soundness						
	Lightweight Pieces						
	Dry Rodded Unit Weight						
	Sampling Aggregates						
	Reducing Aggregates						
	(5) Fracture						
	(1) Wood Particles (1)(4) Elongated Piece	TM 225 TM 229					
(2) Sieve Analysis	TM 227						
(3) Cleanness Value							
Dry Rodded Unit Weight							
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>T 96</p> <p>T 104</p> <p>T 113</p> <p>T 19</p> <p>R 90</p> <p>R 76</p> <p>T 335</p> <p>T27/T 11</p> <p>T 19</p> </div> <div style="width: 15%;"> <p>4000</p> <p>4000</p> <p>1792</p> <p>1792</p> <p>1825</p> <p>1825C</p> </div> <div style="width: 20%;"> <p>Minimum 1 per Source/Project</p> <p>Contractor Provided Testing</p> <p>Start of production and when changes in aggregate occurs</p> </div> <div style="width: 15%;"> <p>Visual</p> <p>Visual</p> <p>Visual</p> </div> <div style="width: 15%;"> <p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p> </div> </div>							
Use sampling and testing frequencies required for proposed end product use							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00705 - ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT										
Aggregate Production Aggregate Cover Material	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed	R 90 R 76 T 27			R 90	Provide Process Control	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00700	Review Documentation for Acceptance		
					1792					
					4000					
Asphalt Prime and Fog Coat Asphalt Cement (Emulsion)	Sampling Asphalt Materials	R 66			Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance			
SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING										
Aggregate Production	Sampling Aggregates Reducing Aggregates (¹) Sieve Analysis	R 90 R 76 T 27/T 11				Provide Process Control	Visual	Review Documentation for Acceptance		
					1792					
					4000					
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Sampling Asphalt Materials	R 66			Provide Suppliers Certificate of Compliance	Visual				
Additives Mineral Filler	Material must meet the requirements of Section 00706.13									
Mixture	Material must meet the requirements of Section 00706.16									
							Visual	Review Documentation for Acceptance		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control				
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E		
SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT										
Aggregate Production										
<p>Abrasion</p> <p>Degradation</p> <p>Soundness</p> <p>Lightweight Pieces</p> <p>Dry Rodded Unit Weight</p> <p>Sampling Aggregates</p> <p>Reducing Aggregates</p> <p>⁽⁵⁾ Fracture</p> <p>⁽¹⁾ Wood Particles</p> <p>⁽¹⁾⁽⁴⁾ Elongated Piece</p> <p>⁽²⁾ Sieve Analysis</p> <p>⁽³⁾ Cleaness Value</p> <p>Dry Rodded Unit Weight</p> <p>⁽⁴⁾ Not required for Dry Key Material</p> <p>⁽⁵⁾ 1/5 Sublots & Start of Production</p> <p>Asphalt Cement (Emulsion)</p>										
		TM 208								
				T 96	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project			Review Documentation for Acceptance
				T 104 T 113 T 19	4000					
				R 90 R 76 T 335						
				T27/T 11	1792	1 per Sublot	Visual			Review Documentation for Acceptance
				T 19	1792 1825 1825C	Start of production and when changes in aggregate occurs	Visual			
				R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance			Review Documentation for Acceptance
	Preproduced Aggregate									
	Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:									
	1. Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production.									
	2. Furnish records of testing for the entire stockpile according to Section 00710.10 and 710.15 Aggregate Production except change the sampling frequency to the following:									
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".										
b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.										
c. Provide one stockpile sample for each set of tests required above.										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control					
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E		
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT										
Aggregate Production										
<p>Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight</p> <p>Sampling Aggregates Reducing Aggregates⁽⁵⁾ Fracture⁽¹⁾ Wood Particles⁽¹⁾ Elongated Piece⁽¹⁾⁽⁴⁾</p> <p>Sieve Analysis⁽²⁾ Cleanness Value⁽³⁾ Dry Rodded Unit Weight</p> <p>Asphalt Cement (Emulsion)</p> <p>⁽¹⁾ QAE may waive after 5 sublots/shifts</p> <p>⁽²⁾ Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated</p> <p>⁽³⁾ May be waived by QAE</p> <p>⁽⁴⁾ Not required for Dry Key Material</p> <p>⁽⁵⁾ 1/5 Sublots & Start of Production</p>	TM 208	T 96 T 104 T 113 T 19	4000	Contractor Provided Testing	Contractor Quality Control Type E	<p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p>				
	TM 225 TM 229	R 90 R 76 T 335	1792	1 per Sublot	Visual					
	TM 227	T 277/ 11	1792	1 per Sublot	Visual					
		T 19	1825 1825C	Start of production and when changes in aggregate occurs	Visual					
		R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance					
	Preproduced Aggregate									
	Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:									
	1. Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production.									
	2. Furnish records of testing for the entire stockpile according to Section 00711.10 and 711.15 Aggregate Production except change the sampling frequency to the following:									
	a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".									
b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.										
c. Provide one stockpile sample for each set of tests required above.										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E				
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT (CONTINUED)											
Mixture Acceptance											
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (¹) TM 322			2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			
⁽¹⁾ ACP Plant Calibration Required at start of Production and if Meters Fail to meet Specification	Cold Feed Moisture		T 255/265		2043 and 2401	Daily Production	Production Control Testing				
Plant Discharge Moisture	ACP Moisture Content		T 329		2277	1/Sublot or Min. 1/Day	Production Control Testing				
Asphalt Cement	Sampling Asphalt Materials		R 66		4000	1/50 Tons Submit All	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance			
A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)										
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control											
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E								
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT																
Aggregate Production																
<p>Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight</p> <p>Sampling Aggregates Reducing Aggregates⁽⁵⁾ Fracture⁽¹⁾ Wood Particles⁽¹⁾⁽⁴⁾ Elongated Piece⁽¹⁾⁽⁴⁾</p> <p>Sieve Analysis⁽²⁾ Cleaness Value⁽³⁾ Dry Rodded Unit Weight</p> <p>Asphalt Cement (Emulsion)</p>	<p>TM 208</p> <p>TM 225 TM 229</p> <p>TM 227</p>	<p>T 96 T 104 T 113 T 19</p> <p>R 90 R 76 T 335</p> <p>T 27/T 11</p> <p>T 19</p> <p>R 66</p>	<p>4000</p> <p>4000</p> <p>1792</p> <p>1792</p> <p>1825 1825C</p> <p>4000</p>	<p>A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency</p> <p>Contractor Provided Testing Minimum 1 per Project</p> <p>Contractor Provided Testing</p> <p>1 per Sublot</p> <p>Start of production and when changes in aggregate occurs</p> <p>Provide Suppliers Certificate of Compliance</p>	<p>Contractor Quality Control Type D</p> <p>Contractor Quality Control Type E</p>	<p>Quality Assurance</p> <p>Project Manager Type D & E</p>	<p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p>									
								Preproduced Aggregate								
								<p>Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:</p>								
								<p>1. Continuing production records meeting the above requirements of Section 00712.10 and 712.15, Aggregate Production.</p>								
								<p>2. Furnish records of testing for the entire stockpile according to Section 00712.10 and 712.15 Aggregate Production except change the sampling frequency to the following:</p>								
								<p>a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".</p>								
								<p>b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.</p>								
								<p>c. Provide one stockpile sample for each set of tests required above.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)						
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control							
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E				
SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT												
Aggregate Production												
<p>Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight</p> <p>Sampling Aggregates Reducing Aggregates (5) Fracture (1) Wood Particles (1)(4) Elongated Piece</p> <p>(2) Sieve Analysis (3) Cleanness Value Dry Rodded Unit Weight</p> <p>(4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	<p>TM 208</p> <p>TM 225 TM 229</p> <p>TM 227</p>	<p>T 96</p> <p>T 104 T 113 T 19</p> <p>R 90 R 76 T 335</p> <p>T27/T 11</p> <p>T 19</p> <p>R 66</p>	<p>4000</p> <p>4000</p> <p>1792</p> <p>1792</p> <p>1825 1825C</p> <p>4000</p>	<p>A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency</p>			<p>Review Documentation for Acceptance</p>					
				Contractor Provided Testing		Contractor Provided Testing Minimum 1 per Project		Review Documentation for Acceptance				
				1 per Sublot		Visual		Review Documentation for Acceptance				
				Start of production and when changes in aggregate occurs		Visual		Review Documentation for Acceptance				
				Provide Suppliers Certificate of Compliance		Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance				
				Preproduced Aggregate								
				<p>Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:</p> <p>1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production.</p> <p>2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following:</p> <p>a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".</p> <p>b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.</p> <p>c. Provide one stockpile sample for each set of tests required above.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00720 - COLD IN-PLACE RECYCLED ASPHALT CONCRETE PAVEMENT (CIR)										
SECTION 00721 - COLD RECYCLED EMULSIFIED ASPHALT CONCRETE PAVEMENT (CRP)										
Asphalt Cement (Emulsified Recycling Agent)	Sampling Asphalt Materials				R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
Water		Material must meet the requirements of Section 00340.10					Visual	Review Documentation for Acceptance		
Aggregate Production Choke Aggregate (See 00705)	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed						A Sublot equals 1000 Tons			
					R 90 R 76 T 27	1792	Provide Process Control	Visual	Review Documentation for Acceptance	
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT										
The type of recycling agent will be listed in the Special Provisions										
Recycling Agent (See 00745.11)	Sampling Asphalt Materials				R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
					R 66	4000				
Recycling Agent	Sampling Asphalt Materials									
Asphalt Concrete Mixture		New Asphalt Concrete mixture will meet the requirements of Section 00744								
SECTION 00730 - ASPHALT TACK COAT										
Tack	Sampling Asphalt Materials				R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT								
Aggregate production	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000 4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
(1) Perform at least 3 tests, QL's required	Sampling Reducing			R 90 R 76 T 27/T 11				
(2) May be waived by QAE	(1) Sieve Analysis (2) Cleanness Value	TM 227		T 335	1792	1/Sublot	Visual	Review Documentation for Acceptance
(3) QAE may waive after 5 sublots/shifts	Fracture (3) Elongated Pieces (3) Wood Particles	TM 229 TM 225			1792			
Choke Aggregate	Sieve Analysis Un-Washed			T 27	1792	Provide Process Control	Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Contractor Quality Control Type D & E	Project Manager Type D & E	
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)										
Mixture Acceptance										
% Emulsified Asphalt	Sampling Aggregates Reducing Aggregates									
	Sieve Analysis									
	Moisture Content of Aggregate & Soil Meter									
% Emulsified Asphalt ⁽¹⁾ ACP Plant Calibration Required at start of Production and if Meters Fail to meet Specification		TM 321			2277		Provide Process Control	Visual		Review Documentation for Acceptance
		TM 321 (¹) TM 322			2401 & 2043		Daily Production	Visual		Review Documentation for Acceptance
	Sampling Asphalt Materials				4000		Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)										
See Specifications when Testing is Required by Agency										
							Provide Process Control	Visual		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)									
Aggregate Production	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208		T 104 T 96 T 113 T 90	4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance	
					4000	A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency			
⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates ⁽³⁾ / ⁽⁴⁾ Sieve Analysis ⁽¹⁾ / ⁽⁴⁾ Sand Equivalent			R 90 R 76 T 27/T 11 T 176	1792	1/Sublot	Contractor Provided Testing	Review Documentation for Acceptance	
					1792	1/5 Sublots	Contractor Provided Testing	Review Documentation for Acceptance	
⁽²⁾ Not required for ATPB Mix									
⁽³⁾ Coarse Agg (+ No. 4)									
⁽⁴⁾ Fine Agg (- No. 4)									
Preproduced Aggregate									
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:									
1. Continuing production records meeting the above requirements of Section 00743.10 Aggregate Production.									
2. Furnish records of testing for the entire stockpile according to Section 00743.10 Aggregate Production except change the sampling frequency to the following:									
a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".									
b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.									
c. Provide one stockpile sample for each set of tests required above.									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)								
Mixture Acceptance - PAC with RAP								
Gradation								
Ignition method	(¹) Calibrate Incinerator	TM 323			A Sublot equals 1000 Tons			
Ignition method	Sampling (ACP) Reducing (ACP)		R 97 R 47	2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate		T 30	2277	1/Sublot or Min. 1/Day			
⁽¹⁾ Submit Samples a minimum of Days Prior to ACP Production								
Asphalt Content								
Ignition Method	(¹) Calibrate Incinerator	TM 323			A Sublot equals 1000 Tons			
Ignition Method	Sampling (ACP) Reducing (ACP)		R 97 R 47	2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance
Meter Method	Asphalt Content		T 308	2277	1/Sublot or Min. 1/day			
	Readings backed by Tank measure & Production Records Daily	TM 321 ⁽²⁾ TM 322		2277	1/Sublot or Min. 1/day			
⁽²⁾ ACP Plant Calibration Required at start of Production and if Meters fail to meet Specification								
Meter Method is required for PAC even when acceptance is by Ignition Method								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)									
Mixture Acceptance - PAC without RAP									
Gradation									
Cold Feed Method	Sampling Aggregates Reducing Aggregates Sieve Analysis	R 90 R 76 T 27/T 11							
Ignition method	(¹) Calibrate Incinerator	TM 323		2327IC	1/JMF & Each Calendar Year.	Production Control Testing			Review Documentation for Acceptance
Ignition method	Sampling (ACP) Reducing (ACP)								
(¹) Not required if Asphalt Content Accepted by Meter									
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate	T 30		2277	1/Sublot or Min. 1/day	Production Control Testing			Review Documentation for Acceptance
(¹) Submit Samples a minimum of 2 Days Prior to ACP Production									
Asphalt Content									
Ignition Method	(¹) Calibrate Incinerator	TM 323		2327IC	1/JMF & Each Calendar Year.	Production Control Testing			Review Documentation for Acceptance
Ignition Method	Sampling (ACP) Reducing (ACP)								
(²) ACP Plant Calibration Required at start of production and if meters fail to meet specification	Asphalt Content								
Meter Method	Readings backed by Tank measure & Production Records Daily	TM 321 (²) TM 322		2277	1/Sublot or Min. 1/day	Production Control Testing			
Meter Method is required for PAC even when acceptance is by Ignition Method				2277	Daily Production	Production Control Testing			Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control					
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance			
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)											
Mixture Acceptance - PAC with and without RAP											
Mix Design Verification Testing											
	Cold Feed Moisture				T255/T265				1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
Plant Discharge Moisture	ACP Moisture Content				T 329				1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
⁽¹⁾ RAP Percentage	⁽¹⁾ RAP Moisture				T 329				1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
⁽¹⁾ If applicable	Readings backed by Tank measure & Production Records Daily										
									Daily Production	Production Control Testing	
Asphalt Cement	Sampling Asphalt Materials				R 66				1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
⁽²⁾ ACP Plant Calibration Required at start of production and if meters fail to meet specification											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E			
SECTION 00744 - ASPHALT CONCRETE PAVEMENT								Review Documentation for Acceptance			
Aggregate Production								Provide Process Control			
Mixture Acceptance								Visual			
Gradation								A Sublot equals 1000 Tons			
Ignition method	(¹) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance			
Ignition method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate			T 30	2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			
(¹) Submit Samples a minimum of Days Prior to ACP Production											
Asphalt Content								A Sublot equals 1000 Tons			
Ignition Method	(¹) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance			
Ignition Method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/Sublot or Min. 1/day	Production Control Testing	Review Documentation for Acceptance			
	Asphalt Content			T 308	2277						
Mix Design Verification Testing								A Sublot equals 1000 Tons			
Plant Discharge Moisture	ACP Moisture Content			T 329	2277	1/Sublot		Review Documentation for Acceptance			
Maximum Density Test G _{mm}	Max. Specific Gravity MAMD	TM 305		T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance
SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)								
Compaction (D) See T 355 Yellow sheet for Density Test Locations	Nuclear Density			T 355	1793A	(D) Average 10 tests per Sublot or Min. 10/Day, See Section 00744.49	Production Control Testing	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE								
Aggregate Production (1) QAE may waive after 5 sublots/shifts (2) Perform a minimum of 3 tests QL's required	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208	T 104 T 96 T 113 T 90	4000 4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance	
					A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency			
(3) Coarse Agg (+ No. 4) (4) Fine Agg (- No. 4)	Sampling Aggregates Reducing Aggregates (2)/(3)/(4) Sieve Analysis (1)/(4) Sand Equivalent	R 90 R 76 T 27/T 11 T 176	1792	1/Sublot	Contractor Provided Testing	Review Documentation for Acceptance		
				Note: Sample Aggregate before Lime Treatment				
RAS Production (Reclaimed Asphalt Shingles)	Sieve Analysis Un-Washed Deleterious Materials Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Deleterious Materials	TM 229 TM 225 TM 335	T 335 T 27 R 90 R 76 T 27	1792 4000 1792	1/5 Sublots	Contractor Provided Testing	Review Documentation for Acceptance	
					Contractor Provided Testing 1/500 Tons	Contractor Provided Testing	Review Documentation for Acceptance	
Preproduced Aggregate								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
<ol style="list-style-type: none"> 1. Continuing production records meeting the above requirements of Section 00745.10 Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00745.10 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> a. One Per 5 sublots means "One Set of Tests Per 5000 Tons". b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. c. Provide one stockpile sample for each set of tests required above. 								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E		
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)										
Mixture Acceptance - ACP "With and Without RAP"										
Gradation	Ignition method	(1) Calibrate Incinerator	TM 323				A Sublot equals 1000 Tons			
	Ignition method	Sampling (ACP) Reducing (ACP)		R 97 R 47 T 30	2327/C	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance	
	(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate			2277	1/Sublot				
	(1) Submit Samples a minimum of Days Prior to ACP Production									
Asphalt Content	Ignition Method	(1) Calibrate Incinerator	TM 323				A Sublot equals 1000 Tons			
	Ignition Method	Sampling (ACP) Reducing (ACP)		R 97 R 47	2327/C	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance	
	(2) RAP and RAS Percentage	Asphalt Content		T 308	2277	1/Sublot or Min. 1/day				
	(2) If Applicable	Meter Method	TM 321 (3) TM 322		2277	1/Sublot or Minimum 1/Day	Production Control Testing		Review Documentation for Acceptance	
	(3) ACP Plant Calibration Required at start of Production and if Meters fail to meet Specification	(2) RAP and RAS Moisture Cold Feed Moisture		T 329	2277					
	<u>Meter Method is required for ACP even when acceptance is by Ignition Method</u>	Readings backed by Tank measure & Production Records Daily	TM 321 (3) TM 322	T255/T265	2401 ACP	Daily Production	Production Control Testing		Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E			
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)											
Mixture Acceptance - ACP "With and Without RAP"								A Sublot equals 1000 Tons			
Mix Design Verification Testing Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity of ACP	TM 326	T 209	2050GV	1/Sublot & according to Section 00745.16 (b)-1-d	Production Control Testing	Review Documentation for Acceptance				
								T 166	*5068		
Determination of G_{mb}	Bulk Specific Gravity of Compacted ACP			*2560							
Stripping Susceptibility	Tensile Strength Ratio		T 283	*5069							
*Cat-1I complete & submit as required, See Section 745.16(b)											
Plant Discharge Moisture	ACP Moisture Content		T 329	2050tsr	1/JMF See Section 00745.16 (b)-1-f	Production Control Testing	Review Documentation for Acceptance				
Maximum Density Test G_{mm}	Max. Specific Gravity MAMD			2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance				
Performing Control Strip	Control Strip	TM 305	T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance				
Compaction	Nuclear Density of ACP	TM 306	T 355	2084 *5069	Develop Rolling Pattern See Specs.	Production Control Testing	Review Documentation for Acceptance				
Asphalt Cement	Sampling Asphalt Materials		R 66	1793A	(D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2	Production Control Testing	Review Documentation for Acceptance				
(D) See T 355 Yellow Sheet for Density Test Locations				4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)					Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E			
		ODOT	WAQTC	AASHTO										
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)														
Mixture Acceptance - ACP "With and Without RAP"												A Sublot equals 1000 Tons		
Mix Design Verification Testing														
Lime		Material must meet the requirements of Section 2090												
Latex		See Special Provisions for Latex Requirements												
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production) ⁽²⁾ ACP Plant Calibration Required at start of Production and if meters fail to meet Specification	(1) % Hydrated Lime TM 321 (2) TM 322 Readings backed by Tank Measure & Production Records Daily				2277 2277				1/Sublot Daily Production	Production Control Testing	Production Control Testing	Review Documentation for Acceptance	Review Documentation for Acceptance	Review Documentation for Acceptance
⁽¹⁾ If Applicable														
⁽¹⁾ See JMF for Details														
Smoothness														
Certification of Profiler Equipment														
Determining International Roughness Index (IRI)										See Special Provisions	Production Control Testing	Review Documentation for Acceptance	Review Documentation for Acceptance	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E	
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR										
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT										
SECTION 00756 - PLAIN CONCRETE PAVEMENT										
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR										
Aggregate Production										
⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates									
	Reducing Aggregates ⁽²⁾ ⁽³⁾ ⁽⁴⁾ Sieve Analysis ⁽⁴⁾ Fineness Modulus holder ⁽⁴⁾ Sand Equivalent				R 90 R 76 T 27/T 11		Contractor Provided Testing	Contractor Provided Testing		Review Documentation for Acceptance
⁽²⁾ Perform a minimum of 3 tests, QL's required	⁽¹⁾ ⁽³⁾ Wood Particles									
	⁽³⁾ Fracture (Method 2) ⁽¹⁾ ⁽³⁾ Elongated Piece				T 335		Contractor Provided Testing 1/5 Sublots	Contractor Provided Testing		Review Documentation for Acceptance
⁽⁴⁾ Fine Aggregate (See Section 02690.30)	Abrasion									
	Degradation				T 96					
	Soundness Lightweight Pieces Organics				T 104 T 113 T 21		Minimum 1 per Project	Contractor Provided Testing		Review Documentation for Acceptance
⁽³⁾ Dry Rodded Unit Weight										
	⁽³⁾ Specific Gravity of Coarse Aggregate ⁽⁴⁾ Specific Gravity of Fine Aggregate				T 19 T 85 T 84		Start of production and when changes in aggregate occurs	Contractor Provided Testing		Review Documentation for Acceptance
A Sublot equals 1000 Tons										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR								
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT								
SECTION 00756 - PLAIN CONCRETE PAVEMENT								
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR (CONTINUED)								
Portland Cement Concrete								A Sublot equals 1000 lane feet of slip formed pavement or 100 yd ³ of non-slip formed PCC
Portland Cement	Materials must meet the requirements of Section 02001.10							
Modifiers								
Admixtures								
Curing Compounds	Material must meet the requirements of Section 02050							
Mixing Water	Material must meet the requirements of Section 02020							
Mixture	Sampling Concrete	TM 2	T 152	3573WS	Contractor Provided Testing - 1/sublot or Minimum 1 per Day	Visual	Review Documentation for Acceptance	
	Air Content of Concrete		T 119	or				
	Slump of Concrete		T 121	4000C				
	Density (Unit Weight) of Concrete		T 121					
	Yield		T 121					
	Concrete Temperature		T 309					
	Water/Cement Ratio		T 121					
	Batching							
	Fabrication of Concrete Cylinders/Beams		R 100		(M) (S) 1 Set of Cylinders per sublot or Minimum 1 set per Day	Visual	Review Documentation for Acceptance	
	Compressive Strength of Concrete		T 22	4000C				
		TM 769			See Special Provisions	Production Control Testing		
		TM 772			See Specs	Visual		
	Sitting Measure	TM 775						
Smoothness	Certification of Profiler Equipment Determining IRI with an Inertial Laser Profiler							
Thickness of Pavement								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance	
SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS									
In-Place Procedure evaluates Durable and High Performance Pavement Markings	Evaluation of Retroreflectivity	TM 777			4101 thru 4105	See Special Provisions and Test Procedure for Testing Frequency	Visual	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS								
Aggregate Production							A Sublot equals 1,000 Tons	Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90			Contractor Provided Testing	Review Documentation for Acceptance
	Reducing Aggregates (2)(3)(4)			R 76				
(2) Perform a minimum of 3 tests, QL's required	(4) Sieve Analysis			T 27/T 11			Contractor Provided Testing	Review Documentation for Acceptance
	(1)(3) Fineness Modulus			T 27/T 11				
(3) Coarse Aggregate (See Section 02690.20)	(4) Wood Particles			T 176			Contractor Provided Testing	Review Documentation for Acceptance
	(4) Sand Equivalent		TM 225					
(4) Fine Aggregate (See Section 02690.30)	Soundness			T 104			Contractor Provided Testing	Review Documentation for Acceptance
	Abrasion		TM 208					
Portland Cement	Degradation			T 113			Minimum of 1 per Project	Review Documentation for Acceptance
	Lightweight Pieces			T 21				
Modifiers	(3) Dry Rodded Unit Weight			T 19			Minimum of 1 per Project	Review Documentation for Acceptance
	(3) Specific Gravity of Coarse Aggregate			T 85				
Admixtures	(4) Specific Gravity of Fine Aggregate			T 84			Minimum of 1 per Project	Review Documentation for Acceptance
Drilling Slurry							Manufacture Compliance Statement	Review Documentation for Acceptance
Grout							Contractor Provided Testing	Review Documentation for Acceptance
Mixing Water							Manufacture Compliance Statement	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)												
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control													
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E										
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS																		
Portland Cement Concrete	Sampling Concrete Slump of Concrete Concrete Temperature Density (Unit Weight) of Concrete Yield Water/Cement Ratio Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete		TM 2	T 119 T 309 T 121 T 121 T 121 R 100 T 22	3573WS or 4000C 4000C	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	Review Documentation for Acceptance										
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>																		
<p>TABLE 00512-1 Frequency of Quality Control Testing</p> <p>Minimum frequencies per Class of concrete based on daily production records.</p> <table border="1"> <thead> <tr> <th>Production</th> <th>Frequencies</th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td>1 Set each day</td> </tr> <tr> <td>Quantity Over 100 yd³</td> <td></td> </tr> <tr> <td>100 to 600 yd³ on a single day</td> <td>1 Set per each 100 yd³ or portion thereof</td> </tr> <tr> <td>over 600 yd³ on a single day</td> <td>1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>									Production	Frequencies	0 to 100 yd ³ on a single day	1 Set each day	Quantity Over 100 yd³		100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof	over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³
Production	Frequencies																	
0 to 100 yd ³ on a single day	1 Set each day																	
Quantity Over 100 yd³																		
100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof																	
over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³																	