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**SECTION 4(D)
Field Tested Materials
Guide**

HOW TO USE THE FIELD TESTED MATERIALS ACCEPTANCE GUIDE

This guide summarizes the testing requirements for various materials used in the construction of ODOT 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 MFTP.

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

SOURCE REVIEW/PRODUCT COMPLIANCE TESTING – Refer to Section 4(A) for additional explanation. Certain QC tests on aggregates fall into this category. They are identified in this section by the words “Product Compliance.”

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 MFTP.

TYPES OF TESTS

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. The Engineer will test processed material if process control testing indicates that the processed material meets the contract quality requirements. Tests will involve degradation, soundness, abrasion, and lightweight pieces, but may involve other tests. 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 4(D) of this Manual or as modified by the Special Provisions or Supplemental Standard Specifications.

4. **Verification** – The Engineer will perform Verification testing as described in Section 2 and specified in Section 4(D) of this Manual. **Note: The required 1 per 10 subplot testing of Quality Control by the Region QA is considered a minimum frequency and testing may be increased when deemed necessary by the engineer.** These tests provide the basis for the Engineer's decision on acceptance of materials and products. If Independent Assurance is to be done on a material, a split of the Verification sample will be given to the Contractor for testing.

5. **Independent Assurance** – Where Independent Assurance involves testing, the Engineer will evaluate test results from split samples to assure that Contractor test results meet required parameters.

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 ODOT 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 ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00330 - EARTHWORK												
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468							
	Specific Gravity of Coarse Aggregates			T 85	3468		1/Soil type			1/Project		
	Family of Curves			R 75	3468FC							
	Deflection Testing	TM 158			1793S		1 test per 3 ft. in depth					
Compaction	Nuclear Density Soils/Aggregates			T 310	1793S		See Table 00330-1 Below				1 test per 10 QC Tests per Table 00330-1	
	Coarse Particle Correction			T 99								
	Deflection Testing	TM 158			1793S							
TABLE 00330-1 Frequency of Quality Control Testing (English)												
Individual Areas		Under 3500 yd² or yd³				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							Visual See Section 00330.16(b)				
	Deflection Testing	TM 158			1793S		1 per Layer					
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	See Section 4C				4000		Submit to Lab				
		1/Source & 1/Type of Soil										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00331 - SUBGRADE STABILIZATION Aggregate backfill											
		Material must meet the requirements of Section 00331.10				Visual					
	Water	Material must meet the requirements of Section 00340									
	Compaction	Material must meet the requirements of Section 00331				Visual					
SECTION 00332 - SURFACING STABILIZATION Aggregate Base											
		Material must meet the requirements of Section 00332.10				Visual					
	Compaction	Material must meet the requirements of Section 00332				Visual					
SECTION 00333 - AGGREGATE DITCH LINING Aggregate	Sampling Aggregates Reducing Aggregates Sieve Analysis										
			R 90 R 76 T 27/T 11			1/Project or 1/Source					
						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 ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00344 - TREATED SUBGRADE									
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime			T 27 T 219	4000	1/Project or 1/Source	Submit to Lab		1/Project or 1/Source
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	Material must meet the requirements of Section 02010								
Water	Material must meet the requirements of Section 00340								
Establishing Maximum Density	Density Curve			T 99	3468	See Table 00344-1 Below for Testing Frequency			1/Project and 1 Test per 10 QC tests per Table 00344-1
	Deflection Testing	TM 158			1793S				
Compaction	Deflection Testing	TM 158		T 310	1793S				
	Nuclear Density Soils/Aggregates								
	Coarse Particle Correction			T 99					
TABLE 00344-1 Frequency of Quality Control Testing									
Individual Areas					Over 3500 yd²				
Finished Subgrade					1 test per 1000 yd ² 1 test per 3000 yd ²				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00360 - Drainage Blankets									
Granular Drainage Blanket	Sampling Aggregates Reducing Aggregates Sieve Analysis	R 90 R 76 T 27/T 11		1792	1/sublot minimum 1/Source per Project	A sublot equals 1000 Tons			
Sand Drainage Blanket	Sampling Aggregates Reducing Aggregates Sieve Analysis	R 90 R 76 T 27/T 11		1792					
Establishing Maximum Density	Density Curve	T 99		3468	1/Source and Type			1/Project	
Compaction	Specific Gravity of Coarse Aggregates	T 85		3468					
Compaction	Deflection Testing	TM 158		1793S	1 test per 3 ft. in depth				
Compaction	Deflection Testing Nuclear Density Soils/Aggregates Coarse Particle Correction	TM 158		1793S	See Table 00360-1 Below			1 Test per 10 QC Tests per Table 00360-1	
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			

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00390 - RIPRAP PROTECTION											
Fill Material & Riprap											
Gradation See 00390.11(c-1)								Visual			
⁽¹⁾ Apparent Specific Gravity and Absorption	Degradation Soundness Specific Gravity of Coarse Aggregates	TM 208			T 104	See Section 4(A)	Submit To Lab				See Section 4(A)
					⁽¹⁾ T 85						
Filter Blanket								Visual			
Gradation See 00390.13											
Grouted Riprap Sand	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11	1/Project					
					T 104 T 113						
Portland Cement	Soundness Lightweight Pieces				4000	See Section 4(A)	Submit to Lab				See Section 4(A)
					Material must meet the requirements of Section 02010						

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 ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00396 -SHOTCRETE SLOPE STABILIZATION										
Aggregate Production and Mixture										
⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates			R 90						
				R 76						
				T 27/T 11 T 27/T 11						
⁽²⁾ Coarse Aggregate (See Section 02690.20)	Fineness Modulus Wood Particles 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						
Portland Cement Admixtures				T 19 T 85						
				T 84						
Mixing Water				Material must meet the requirements of Section 02010						
				Material must meet the requirements of Section 02040						
Production Testing (See Section 00396.14)				Material must meet the requirements of Section 02020						
				Material must meet the requirements of Section 02020						
⁽⁵⁾ 3 Cores minimum per Panel Compression Test Cores	Strength			T 22						
				4000C						
									1 per 10 Sublots	Submit to Central Lab
										Submit to Central Lab
										See Section 4(A)

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL										
TRENCH FOUNDATION (Excavation Below Grade Only) (See Section 405.44)										
Selected general backfill							Visual			
Selected granular backfill							Visual			
Selected stone backfill							Visual			
Other approved material							Visual			
Establishing Maximum Density	Density Curve			T 99	3468					
	Specific Gravity of Coarse Aggregates			T 85	3468			1/Soil Type or Aggregate Gradation		
	Family of Curves			R 75	3468FC					
	Nuclear Density Soils/Aggregates Coarse Particle Correction			T 310 T 99	1793S			1 Test per 300 ft. of Trench		
<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-	Contractor Quality Control	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory			
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	1792	1/Source or Aggregate Gradation						
Commercial 3/4" - 0 Aggregate							Visual					
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	1792	1/Source or Aggregate Gradation						
Reasonably well graded sand, maximum 3/8" to dust							Visual					
Commercial available 3/8"-0 or No.10 - 0 sand							Visual					
Continuous cradle of Commercial Grade Concrete	Material must meet the requirements of Section 00440						Visual					

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-1792	Contractor Quality Control	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory		
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			R 90		1/Source or Gradation					
	Reducing Aggregates Sieve Analysis			R 76 T 27	1792						
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate							Visual				
Establishing Maximum Density (Flexible and Rigid Pipe)	Density Curve			(1) T 99	3468	1/Source or Aggregate Gradation					
	Specific Gravity of Coarse Aggregates			T 85							
	Coarse Particle Correction			(1) T 99	3468						
Compaction	Nuclear Density Soils/Aggregates			T 310	1793B	1 Test per 300 ft. of Trench and every 1.5 ft. of Fill					
<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-	Contractor Quality Control	QUALITY ASSURANCE						
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory				
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)													
Trench Backfill													
Class A Backfill - Native or common Material		<i>Material must meet the requirements of Section 00330.43</i>											
Class B Backfill - 1"-0 or 3/4"-0 Granular Material		<i>Material must meet the requirements of Section 00641</i>											
Class C Backfill - Clean sand with 100% minus 1/4" material									Visual				
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine									Visual				
Class E Backfill - Controlled Low Strength Material (CLSM)		<i>Material must meet the requirements of Section 00442</i>											
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve				(1) T 99	3468							
	Specific Gravity of Coarse Aggregates				T 85	3468				1/Soil Type or Aggregate Gradation			
	Family of Curves				R 75	3468FC							
Compaction (C) Density testing is based on cumulative lineal feet of pipe placement.	Nuclear Density Soils/Aggregates				T 310	1793S or 1793B				(C) 1 test per 300 ft. of Trench and every 1.5 ft. of Fill			
	Coarse Particle Correction				T 99								
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.													

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory
SECTION 00430 - SUBSURFACE DRAINS									
Granular Drain Backfill Material									
	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	Sieve Analysis			T 27	1792				
	Abrasion Degradation	TM 208		T 96	4000		Submit To Lab		See Section 4A
Special Filter Material See Section 00430.46(a)	Compaction								
SECTION 00440 - COMMERCIAL GRADE CONCRETE									
Mixture	Sampling Concrete		TM 2						
	Air Content of Concrete			T 152					
	Density (Unit Weight) of Concrete			T 121	3573WS or 4000 C				(S) 1 per each set of cylinders
	Yield			T 121					
	Slump of Concrete			T 119					
Concrete Temperature			T 309						
Modifiers									
Admixtures									
Portland Cement									
Structural Items				R 100					(M)(S) 1 Set Per Day Minimum
				T 22	4000C				
Except Visual Acceptance Items (See section 00440.14(a))				R 100					(M) (S) 1 Set/20 yd ³
				T 22	4000C				Cumulative (Maximum 1 Set/day)
(S) 1 Set Represents a Minimum of 3 Cylinders									
(M) Per Mix Design & Source									

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)										
CLSM Mixture	Mix Proportions					1/Project or Source				
	Trial Batch									
	Fabrication of Concrete Cylinders/Beams			R 100						
	Compressive Strength of Concrete			T 22	4000C					
Modifiers	<i>Material must meet the requirements of Section 02030</i>									
Admixtures	<i>Material must meet the requirements of Section 02040</i>									
Portland Cement	<i>Material must meet the requirements of Section 02010</i>									
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	<i>Material must meet the requirements of Section 00440</i>									

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance
SECTION 00450 - STRUCTURAL PLATE SHAPED STRUCTURES									
Commercial Grade Concrete in appurtenances		<i>Material must meet the requirements of Section 00440</i>							
Trench Work									
Excavation and Backfill		<i>Operations must meet the requirements of Section 00510</i>							
Trenches in Unstable Areas									
Granular Structural Backfill		<i>Material must meet the requirements of Section 00510</i>							
<i>Establishing Maximum Density</i>					(¹) T 99				
⁽¹⁾ Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve				T 85			1/Aggregate Gradation and Source	
	Specific Gravity of Coarse Aggregates Coarse Particle Correction	TM 223							
Compaction	Nuclear Density of Soils/Aggregates				T 310			1 Test per 100 ft. and 1 ft. of fill	
Structure Backfill (Section 00450.46)		<i>Material and Operation must meet the requirements of Section 00510.48(d)</i>							
SECTION 00459 - CAST IN PLACE CONCRETE									
Concrete		<i>Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17</i>							
Backfill Material		<i>Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46</i>							

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory
SECTION 00460 - PAVED CULVERT END SLOPES									
Commercial Grade Concrete	<i>Material must meet the requirements of Section 00440</i>								
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS									
Commercial Grade Concrete	<i>Material must meet the requirements of Section 00440</i>								
Base Drain Backfill	<i>Material must meet the requirements of Section 00470.17</i>								
Excavation, Backfill and Foundation Stabilization	<i>Material must meet the requirements of Section 00405</i>								
SECTION 00480 - DRAINAGE CURBS									
Commercial Grade Concrete	<i>Material must meet the requirements of Section 00440</i>								
Dense Graded ACP Mixture	<i>Material must meet the requirements of Section 00740</i>								

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

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory	
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				1792			1/Sublot (Minimum 1/Project)		
Product Compliance	Abrasion									
	Degradation	TM 208			4000			See Section 4C 1/Source	Submit to Lab	Minimum 1/Project or 1/Source
	Plasticity Index Sieve Analysis									
Establishing Maximum Density	Density Curve									
	Specific Gravity of Coarse Aggregates							1/Soil type or Aggregate Gradation		
	Coarse Particle Correction									
Compaction	Nuclear Density									
	Soils/Aggregates							1/100 yd ³ minimum 1/project		
<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 ASSURANCE				
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)									
Soils, Soil/Aggregate Mixtures and Graded Aggregates									
Granular Wall Backfill (See Section 02630.11) (1) Perform a minimum of 3 tests QL's required	Sampling Aggregates Reducing Aggregates (1) Sieve Analysis Fracture (Method 2)								
					R 90 R 76 T 27 T 335		1/Sublot (Minimum 1/Project)		
Product Compliance	Abrasion Degradation	TM 208			T 96		See Section 4C 1/Source	Submit to Lab	Minimum 1/Project or 1/Source
(2) Compaction	(2) Deflection Testing	TM 158							
Note: Compaction must meet the requirements of section 00330.43c									
<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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00512 - DRILLED SHAFTS											
Aggregate Production											
(1) QAE may waive after 5 sublots/shifts (2) Perform a minimum of 3 tests, QL's required (3) Coarse Aggregate (See Section 02690.20) (4) Fine Aggregate (See Section 02690.30)	Sampling Aggregates			R 90				1 per 10 Sublots	A Sublot equals 1,000 Tons	See Section 4(A)	
	Reducing Aggregates (2)(3)(4)			R 76							
	(4) Sieve Analysis			T 27/T 11	1792	1/Sublot					
	(4) Fineness Modulus			T 27/T 11	1792						
	(1)(3) Wood Particles	TM 225		T 176							
	(4) Sand Equivalent										
	Soundness			T 104	4000		Submit to Lab				
	Abrasion			T 96	4000						
Degradation	TM 208		T 113								
Lightweight Pieces			T 21								
Organics											
(3) Dry Rodded Unit Weight			T 19	1825	Start of production and when changes in aggregate occurs						
(3) Specific Gravity of Coarse Aggregate			T 85	1825C							
(4) Specific Gravity of Fine Aggregate			T 84	1825							
Portland Cement			Materials must meet the requirements of Section 02001.10								
Modifiers											
Admixtures											
Drilling Slurry			Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)								
Grout			Material must meet the requirements of Section 02080								
Mixing Water			Material must meet the requirements of Section 02020								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)										
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	QUALITY ASSURANCE									
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory					
SECTION 00512 - DRILLED SHAFTS (CONTINUED)														
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				QA Testing								
							(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	Projects under 100 yd ³ all classes 1/Project representing all classes of PCC						
							3573WS or 4000C		Projects over 100 yd ³ all classes 1/500 yd ³ per class minimum 1/class					
							R 100 T 22	4000C						
(S) 1 Set Represents a minimum of 3 Cylinders														
(M) Per Mix Design & Source														
<p align="center">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 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													

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 ASSURANCE			
		ODOT	ASTM	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS									
Resin Bonded Anchor System									
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)									
<i>Materials must meet the requirements of Section 00535.10(a)</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-	Contractor Quality Control	QUALITY ASSURANCE				
		ODOT	ASTM			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS (continued)										
Mechanical Anchor System										
Mechanical Anchors						A Sublot equals 50 Anchors				
		<i>Materials must meet the requirements of Section 00535.10(b)</i>								
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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00540 - STRUCTURAL CONCRETE											
Aggregate Production											
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90							
	Reducing Aggregates			R 76	1792						
	(2)(3)(4) Sieve Analysis			T 27/T 11 T 27/T 11					1 per 10 Sublots		
(2) Perform a minimum of 3 tests, QL's required	(4) Fineness Modulus			T 176	1792						
	(1)(3) Wood Particles	TM 225									
(3) Coarse Aggregate (See Section 02690.20)	(4) Sand Equivalent										
	Soundness			T 104	4000						
(4) Fine Aggregate (See Section 02690.30)	Abrasion			T 96							
	Degradation	TM 208									
Lightweight Pieces Organics				T 113	4000						
				T 21							
Portland Cement	(3) Dry Rodded Unit Weight			T 19	1825						
	(3) Specific Gravity of Coarse Aggregate			T 85	1825C						
	(4) Specific Gravity of Fine Aggregate			T 84	1825						
Modifiers	Materials must meet the requirements of Section 02001.10										
Admixtures	Material must meet the requirements of Section 02020										
Mixing Water											

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 ASSURANCE														
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory											
SECTION 00540 - STRUCTURAL CONCRETE (CONTINUED)																				
Portland Cement Concrete																				
⁽¹⁾ AASHTO T 196 required for lightweight concrete	Sampling Concrete		TM 2																	
	⁽¹⁾ Air Content of Concrete			T 152																
	Slump of Concrete			T 119																
	Concrete Temperature			T 309																
	Density (Unit Weight) of Concrete			T 121																
	Yield			T 121																
	Water/Cement Ratio			T 121																
	Fabrication of Concrete			R 100																
	Cylinders/Beams			T 22																
	Compressive Strength of Concrete																			
^(S) 1 Set Represents a minimum of 3 Cylinders																				
^(M) Per Mix Design & Source																				
<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></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>											<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	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
<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	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 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory	
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	Material must meet the requirements of section 00556.10									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)					
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Project Manager	Materials Laboratory
		ODOT	WAQTC	AASHTO						
SECTION 00557 - PREMIXED POLYMER CONCRETE OVERLAYS										
<i>Resin Primer</i>										
<i>Polyester Resin Binder Including (Initiator, Accelerators & Inhibitors)</i>										
<i>Material must meet the requirements of section 00557.10</i>										
<i>Material must meet the requirements of section 00557.12 (a-c)</i>										
Aggregate Production Product Compliance (Submit 2- 50 lb. samples of blended aggregate (00557.02) during the trial overlay)	Specific Gravity of Coarse Aggregate Specific Gravity of Fine Aggregate Sieve Analysis Moisture Content of Aggregate & Soil Fracture (Method 1) Moisture Content of Aggregate & Soils Sieve Analysis (¹) Moisture Content of Aggregate & Soils				T 85 T 84 T 27/11 T 255/265 T 335 T 255/265 T 27/11 T 255/265	4000	1/Project and Source	Submit to Lab		See Section 00557.12(d)
(¹) See Section 00557.12(d)					1792		During the Trial Overlay Strip			
							During Production			
Surface Texture Sand (see section 00557.12(e))	Sieve Analysis				T 27/11	1792	1/Project and Source			
Premixed Polymer Concrete	Density (Unit Weight) of Concrete				T 121	3573WS	(^B) 1/Batch			
	Static Modulus of Elasticity			TM 759		4000C	(^M) Minimum 1 set/batch			
(^M) 1 set Represents a minimum of 3 (4"x8") cylinders cast per 00557.44(e)							1 set per 10 batches placed or minimum 1 set/day	Submit to Lab		See section 00557.44(e)
(^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 ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS												
Aggregate Production												
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates (2)(3)(4) Sieve Analysis				R 90 R 76 T 27/T 11	1792						
(2) Perform a minimum of 3 tests, QL's required	(4) Fineness Modulus (4) Sand Equivalent				T 27/T 11 T 176	1792						
(3) Coarse Aggregate (See Section 02690.20)	(1)(3) Elongated Piece (1)(3) Wood Particles	TM 229 TM 225				1792		1 per 10 Sublots				
(4) Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208			T 96 T 104 T 113 T 21	4000			Submit to Central Lab			See Section 4(A)
	(3) Dry Rodded Unit Weight				T 19	1825 1825C						
	(3) Specific Gravity of Coarse Aggregate (4) Specific Gravity of Fine Aggregate				T 85 T 84	1825						
Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10											
Mixing Water	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 734-	QUALITY ASSURANCE							
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory				
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS (CONTINUED)													
Portland Cement Concrete											A subplot equals 1 set of tests per 50 yd3		
(1) AASHTO T 196 required for lightweight concrete	Sampling Concrete		TM 2	T 152 T 119 T 309 T 121	3573W S or 4000 C	1 / Sublot or Minimum 1 per Shift	1 per 10 Sublots						
	(1) Air Content of Concrete												
	Slump of Concrete												
(M) Per Mix Design & Source	Concrete Temperature			T 121 T 121		(M) (S) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift	1 Set per 500 yd ³						
	Density (Unit Weight) of Concrete												
(S) 1 Set Represents a minimum of 3 Cylinders	Yield												
	Water/Cement Ratio												
Broadcast Aggregate	Fabrication of Concrete Cylinders/Beams			R 100	4000C								
	Compressive Strength of Concrete			T 22									
SECTION 00590 - POLYMER MEMBRANE													
Broadcast Aggregate	Moisture Content of Aggregates & Soils			T 255/265	1792	Test at time of packaging and shipment. See Section 00590.10-c							
	Moisture Content of Aggregates & Soils			T 255/265	1792	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c							

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 ASSURANCE							
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory			
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS												
Aggregate Production												
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab	See Section 4A	See Section 4A			
					A Sublot equals 1,000 Tons Minimum 1/Project							
					1792					1/Sublot		
					1792					1/5 Sublots		
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project												
⁽³⁾ Modular Block Core and Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208		T 104	4000	See Section 4C & 02690	Submit To Lab	See Section 4C	See Section 4C			
				T 96	4000							
				T 113								
⁽³⁾ (See Section 2690.20(a) thru 2690.20(d) & 2690.20(f))												
⁽³⁾ Modular Block Core and Drainage Backfill ⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates ⁽²⁾ Sieve Analysis ⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		R 90	1792	1/Sublot						
				R 76								
				T 27/T 11								
				T 335								
⁽²⁾ Perform a minimum of 3 tests, QL's required												
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sieve Analysis Un-washed	TM 208		T 96	4000	See Section 4C	Submit To Lab	See Section 4C	See Section 4C			
				T 27	4000					1/Sublot		
A Sublot equals 1,000 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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
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	See Section 4C	Submit to Lab			Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C
(1) Apparent Specific Gravity and Absorption	Gradation										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
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		T96 T 11 T 90 T 289 T 288 T 267	4000	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C
					4000	Submit to Central Lab	
A Sublot Equals 2,000 Tons							
MSE Granular Wall Backfill	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27 T 176	1792	1/Sublot	
(¹) Perform a minimum of 3 tests, QL's required	(¹) Sieve Analysis Un-Washed Sand Equivalent			T 335	1792	1/5 Sublots	
Placement Establishing Maximum Density	Fracture (Method 1)			(²) T 99	3468	1/Aggregate Gradation/Per Source	
(²) Method A	Density Curve			T 85	3468		
	Specific Gravity of Coarse Aggregates			T 310	1793B	1/ 100 yd3 (Minimum 1/day)	
Compaction	Agg. Base Coarse Particle Correction Nuclear Density of Soils/Aggregates	TM 223			1793B	1 per layer	(³) Visual
	Deflection Testing	TM 158					
(³) See Section 00596A.47(c-5)							
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 ASSURANCE														
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory											
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS																				
Aggregate Production Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T96	4000	See Section 4A	Submit to Lab	See Section 4A	See Section 4A	See Section 4A										
											A Sublot equals 1,000 Tons Minimum 1/Project									
											Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Sand Equivalent	R 90 R 76 T 27 T 176	1792	1/5 Sublot	1792	1/5 Sublots	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C & 02690	Submit To Lab	See Section 4C
⁽³⁾ Modular Block Core and Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208		T 104 T 96 T 113	4000	See Section 4C & 02690	Submit To Lab	See Section 4C												
									⁽³⁾ (See Section 2690.20(a) thru 2690.20(d) & 2690.20(f)	Sampling Aggregates Reducing Aggregates ⁽²⁾ Sieve Analysis ⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		R 90 R 76 T 27/T 11 T 335	1792 1792	1/5 Sublot	A Sublot equals 1,000 Tons	See Section 4C			
⁽³⁾ Modular Block Core and Drainage Backfill ⁽¹⁾ QAE may waive after 5 sublots/shifts	Abrasion Degradation	TM 208		T 96	4000	See Section 4C	Submit To Lab	See Section 4C												
									⁽²⁾ Perform a minimum of 3 tests, QL's required Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Sieve Analysis Un-Washed	T 27	4000	1/5 Sublot	See Section 4C	Submit To Lab	See Section 4C				

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 ASSURANCE			Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
		ODOT	WAQTC	AASHTO								
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		T 104 (1) T 85	4000	See Section 4C	Submit to Lab	See Section 4C				See Section 4C
					1825							
(1) Apparent Specific Gravity and Absorption	Gradation											
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project												

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS								
Aggregate Production								
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208		T 96 T 11 T 90	4000	See Section 4C	Submit to Central Lab	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project
					4000			
Retaining Wall Granular 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	1792	1/Sublot	A Sublot Equals 2,000 Tons	
				R 76				
				T 27				
				T 176				
				T 335				
Placement	Density Curve			(2) T 99	3468	1/Aggregate Gradation/Per Source		
				T 85				
Establishing Maximum Density (2) Method A	Specific Gravity of Coarse Aggregates	TM 223		T 310	1793B	1/ 100 yd3 (Minimum 1/day)		
Compaction	Nuclear Density of Soils/Aggregates	TM 158			1793B	1 per layer		(3) Visual
(3) See Section 00596B.47(b-6)								
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 ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS										
Aggregate Production										
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	See Section 4C	Submit To Lab			See Section 4C
	Sampling Aggregates Reducing Aggregates			R 90 R 76 T27						
	Sieve Analysis Un-Washed				4000	1/Sublot				
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project										
Retaining Wall Granular Backfill										
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208		T 96 T 11 T 90	4000	See Section 4C	Submit to Central Lab			See Section 4C
					4000					
A Sublot Equals 2,000 Tons										
Retaining Wall Granular Backfill ⁽¹⁾ Perform a minimum of 3 tests QL's required	Sampling Aggregates Reducing Aggregates ⁽¹⁾ Sieve Analysis Un-Washed Fracture (Method 1)			R 90 R 76 T 27 T 335		1/Sublot				
						1/5 Sublots				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS									
Placement									
Retaining Wall Granular Backfill	Density Curve			(1) T 99	3468				
Establishing Maximum Density	Specific Gravity of Coarse Aggregates			T 85	3468	1/Aggregate Gradation/Per Source			
(1) Method A	Agg. Base Coarse Particle Correction	TM 223							
Compaction	Nuclear Density of Soils/Aggregates			T 310	1793B	1/ 100 yd3 (Minimum 1/day)			
(2) See Section 00596C.42(f)	Deflection Testing	TM 158			1793B	1 per layer	(2) 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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE											
Aggregate Subbase Grading (See 00635.10)	Abrasion			T 96	4000	A Sublot equals 1000 Tons			See Section 4(A)		
					1/Source	Submit To Central Lab					
	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Sand Equivalent			R 90 R 76 T 27	1792	1/Sublot					
			T 176								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Project Manager	Region Quality Assurance
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS								
Aggregate Production Aggregate Subbase Grading (See 00641.10(b))	Abrasion			T 96	4000	See Sec. 4A	Submit To Central Lab	See Section 4(A)
	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27		1/Project or 1/Source	Visual	
	Sieve Analysis Un-Washed Sand Equivalent			T 176	1792			
	Aggregate Base and Shoulders	TM 208		T 96	4000	See Section 4A	Submit to Lab	See Section 4A
Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11)	Abrasion Degradation			R 90 R 76 T 27	A Sublot equals 2000 Tons			
	Sampling Aggregates Reducing Aggregates			T 176		1/Sublot		1 per 10 Sublots
	(1) Sieve Analysis Un-Washed (2) Sand Equivalent Fracture (Method 1)			T 335		1/5 Sublots		
Placement Aggregate Base Plant Mix Applications Only Aggregate (Mixture)					A Sublot equals 2000 Tons			
	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 255/265		1/Sublot or minimum 1/Day		1 per 10 Sublots
	Moisture Content of Aggregates & Soils			(3) T 99		Each Size per Source		1/Project
	Density Curve Agg. Base Coarse Particle Correction Specific Gravity of Coarse Aggregates	TM 223		T 85				
Establishing Maximum Density & Optimum Moisture (Mix Design) ⁽³⁾ Method A Compaction	Deflection Testing Nuclear Density of Soils/Aggregates	TM 158		T 310	1793B	1 per Sublot		
					1793B	(D) 5 Tests Per Sublot		(D) 1 (5 Tests) per 10 Sublots

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Independent Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)										
Placement										
Aggregate Subbase										
Compaction	Deflection Testing	TM 158			1793 B	1 per Layer	Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Independent Project Manager	Region Quality Assurance
SECTION 00680 - STOCKPILED AGGREGATES								
Aggregate Base and Shoulders (See Section 00641)	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab	See Section 4A
	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27	1792	1/Sublot		1 per 10 Sublots
	(1) Sieve Analysis Un-Washed			T 176	1792			
	(2) Sand Equivalent							
	Fracture (Method 1)			T 335	1792	1/5 Sublots		
A Sublot equals 2,000 Tons								
Aggregate (Sanding Aggregate)								
(1) May be waived by QAE	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27		1/Sublot		1 per 10 Sublots
	Sieve Analysis Un-Washed				1792			
	(1) Cleanness Value	TM 227					Submit to Lab	See Section 4A
	Abrasion Degradation Lightweight Pieces	TM 208		T 96 T 113	4000 4000	See Section 4A		
	Fracture (Method 1) Elongated Pieces Wood Particles	TM 229 TM 225		T 335	1792 1792	1/5 Sublots		1 per 10 Sublots
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 ASSURANCE											
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Project Manager	Region Quality Assurance	Materials Laboratory								
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) 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 (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production Aggregate (Other)	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight Sampling Aggregates Reducing Aggregates (5) Fracture (Method 1) (1) Wood Particles (1)(4) Elongated Piece (2) Sieve Analysis (3) Cleanness Value Dry Rodded Unit Weight	TM 208 TM 225 TM 229 TM 227	T 96 T 104 T 113 T 19 R 90 R 76 T 335 T27/T 11 T 19	4000 4000 1792 1792 1825 1825C	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency See Section 4A Submit to Lab 1/Sublot Start of production and when changes in aggregate occurs	See Section 4A 1 per 10 Sublots	See Section 4A										
								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 ASSURANCE							
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory				
SECTION 00705 - EMULSIFIED ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT													A sublot equals 1000 Tons. A minimum 1 per shift
Aggregate Production Aggregate Cover Material	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed	R 90 R 76 T 27	R 66	1792	1/Sublot	1 per 10 Sublots	1/5 QC Samples (Random)						
Asphalt Prime and Fog Coat Asphalt Cement (Emulsion)	Sampling Asphalt Materials	R 66		4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab	1/5 QC Samples (Random)						
SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING													A sublot equals 500 Tons. A minimum 1 per shift whichever results in the greatest sampling frequency
Aggregate Production (¹) Perform at least 3 tests, QL's required	Sampling Aggregates Reducing Aggregates (¹) Sieve Analysis	R 90 R 76 T 27/T 11	R 66	1792	1/Sublot								
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Sampling Asphalt Materials	R 66		4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab	1/5 QC Samples (Random)						
Additives Mineral Filler	Material must meet the requirements of Section 00706.13												
Mixture	Material must meet the requirements of Section 00706.16												

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT									
Aggregate Production									
(1) QAE may waive after 5 sublots/shifts (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 (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production Asphalt Cement (Emulsion)	Abrasion	TM 208	T 96	4000	See Section 4A	Submit to Central Lab	1 per 10 Sublots	See Section 4A	
	Degradation								
	Soundness			T 104	4000				
	Lightweight Pieces			T 113					
	Dry Rodded Unit Weight			T 19					
	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	(5) Fracture (Method 1)			T 335	1792	1/Sublot			
	(1) Wood Particles	TM 225		T27/T 11	1792				
	(1)(4) Elongated Piece	TM 229							
(2) Sieve Analysis	TM 227								
(3) Cleanness Value									
Dry Rodded Unit Weight			T 19	1825 1825C	Start of production and when changes in aggregate occurs				
Sampling Asphalt Materials			R 66	4000	1/50 Tons Submit All	Submit to Lab		1/5 QC Samples (Random)	
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: <ol style="list-style-type: none"> One Per 5 sublots means "One Set of Tests Per 2500 Tons". One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. Provide one stockpile sample for each set of tests required above. 									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT							
Aggregate Production							
<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> <p>Asphalt Cement</p>	Abrasion	TM 208	T 96	4000	See Section 4A	Submit to Central Lab	See Section 4A
	Degradation		T 104				
	Soundness		T 113				
	Lightweight Pieces		T 19	4000			
	Dry Rodded Unit Weight		R 90				
	Sampling Aggregates		R 76				
	Reducing Aggregates		T 335				
	(5) Fracture (Method 1)		T27/T 11	1792	1/Sublot		1 per 10 Sublots
	(1) Wood Particles	TM 225					
	(1)(4) Elongated Piece	TM 229					
(2) Sieve Analysis	TM 227						
(3) Cleaness Value							
Dry Rodded Unit Weight		T 19		1825	Start of production and when changes in aggregate occurs		
				1825C			
Sampling Asphalt Materials		R 66		4000	1/50 Tons Submit All	Submit to Lab	1/5 QC Samples (Random)
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> <ol style="list-style-type: none"> Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production. 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: <ul style="list-style-type: none"> One Per 5 sublots means "One Set of Tests Per 2500 Tons". One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. 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-	Contractor Quality Control	QUALITY ASSURANCE			1/5 QC Samples (Random)					
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Region Quality Assurance	Project Manager		Materials Laboratory				
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT (CONTINUED)															
Mixture Acceptance											A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency				
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (¹) TM 322			2277	1/Sublot or Min. 1/Day									
⁽¹⁾ ACP Plant Calibration Required at start of production and if meters fail to meet specification					2043 & 2401	Daily Production									
Plant Discharge Moisture	Cold Feed Moisture		T 255/265		2277	1/Sublot or Min. 1/Day									
Asphalt Cement	ACP Moisture Content		T 329		2277	1/Sublot									
	Sampling Asphalt Materials		R 66		4000	1/50 Tons Submit All									

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 ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory			
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT												
Aggregate Production											A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	
<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> <p>Asphalt Cement (Emulsion)</p>	Abrasion	TM 208		T 96	4000	See Section 4A	Submit to Central Lab				See Section 4A	
	Degradation			T 104								
	Soundness			T 113								
	Lightweight Pieces			T 19	4000							
	Dry Rodded Unit Weight			R 90								
	Sampling Aggregates			R 76								
	Reducing Aggregates			T 335								
	(5) Fracture (Method 1)				1792	1/Sublot					1 per 10 Sublots	
	(1) Wood Particles	TM 225										
	(1)(4) Elongated Piece	TM 229										
(2) Sieve Analysis			T 27/T 11	1792								
(3) Cleaness Value	TM 227											
Dry Rodded Unit Weight			T 19									
					1825							
					1825C	Start of production and when changes in aggregate occurs						
					4000	1/50 Tons Submit All	Submit to Lab				1/5 QC Samples (Random)	
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 00712.10 and 712.15, Aggregate Production.												
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:												
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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT											
Aggregate Production											
Aggregate Production (1) QAE may waive after 5 sublots/shifts (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 (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production Asphalt Cement (Emulsion)	Abrasion	TM 208		T 96	4000	See Section 4A	Submit to Central Lab				See Section 4A
	Degradation			T 104							
	Soundness			T 113							
	Lightweight Pieces			T 19	4000						
	Dry Rodded Unit Weight			R 90							
	Sampling Aggregates			R 76							
	Reducing Aggregates			T 335							
	(5) Fracture (Method 1)				1792	1/Sublot					1 per 10 Sublots
	(1) Wood Particles	TM 225									
	(1)(4) Elongated Piece	TM 229									
(2) Sieve Analysis			T 27/T 11	1792							
(3) Cleanness Value	TM 227										
Dry Rodded Unit Weight			T 19		1825 1825C	Start of production and when changes in aggregate occurs					
Sampling Asphalt Materials			R 66		4000	1/50 Tons Submit All	Submit to Lab				1/5 QC Samples (Random)
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 00715.10 and 715.15, Aggregate Production. 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: <ol style="list-style-type: none"> One Per 5 sublots means "One Set of Tests Per 2500 Tons". One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. 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 ASSURANCE					
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
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	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab			1/5 QC Samples (Random)
Water	Compliance				4000	See Sec.00340.10				
Aggregate Production Choke Aggregate (See 00705)	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed					A Sublot equals 1000 Tons				
						1792	1/Sublot		Minimum 1/Project	
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT										
<i>The type of recycling agent will be listed in the Special Provisions</i>										
Recycling Agent (See 00745.11)	Sampling Asphalt Materials			R 66	4000	See Section 4C	Submit to Lab			1/5 QC Samples (Random)
Recycling Agent	Sampling Asphalt Materials			R 66	4000	1/50 Tons	Submit to Lab			
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	See Section 4C 1/50 Tons	Submit to Lab			1/50 Tons or All QC Samples

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region 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	See Section 4A Submit to Lab		See Section 4A
(1) Perform at least 3 tests, QL's required					A Sublot equals 1000 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons)			
(2) May be waived by QAE	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27/T 11				
(3) QAE may waive after 5 sublots/shifts	(1) Sieve Analysis (2) Cleaness Value Fracture (Method 1 & 2) (3) Elongated Pieces (3) Wood Particles	TM 227 TM 229 TM 225		T 335	1792 1792	1/Sublot		1 per 10 Sublots
Choke Aggregate	Sieve Analysis Un-Washed			T 27	1792	1/Sublot		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-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)											
Mixture Acceptance											
% Emulsified Asphalt	Sampling Aggregates Reducing Aggregates Sieve Analysis Moisture Content of Aggregate & Soil Meter										
				R 90 R 76 T 27/T 11 T 255/265							
			TM 321			2277		1/Sublot			1 per 10 Sublots
% Emulsified Asphalt	Meter Backed by Tank Measure Daily	TM 321 (¹) TM 322			2401 & 2043	Daily Production					
⁽¹⁾ ACP Plant Calibration Required at start of production and if meters fail to meet specification											
Emulsified Asphalt Cement	Sampling Asphalt Materials				4000	See Section 4C 1/Sublot (Submit All)			Submit to Lab	1 per 10 Sublots	1/5 QC Samples (Random)
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)											
See Specifications when Testing is Required by Agency											

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)											
Aggregate Production											
	Soundness			T 104	4000						
	Abrasion			T 96							See Section 4A
	Degradation	TM 208		T 113				Submit to Lab			
	Lightweight Pieces			T 90							
	Plasticity Index										
	(1) QAE may waive after 5 sublots/shifts										
	(2) Not required for ATPB Mix										
	(3) Coarse Agg (+ No. 4)										
	(4) Fine Agg (- No. 4)										
	Sampling Aggregates			R 90							
	Reducing Aggregates			R 76							
	(3)(4) Sieve Analysis			T 27/T 11	1792			1/Sublot			
	(1)(4) Sand Equivalent			T 176							
	(1)(2)(3) Elongated Pieces										
	(3)(4) Fracture (Method 2)	TM 229									
	(1)(2)(3) Wood Particles	TM 225									
				T 335	1792			1/5 Sublots & Start of Production			
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 ASSURANCE							
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory				
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)													
Mixture Acceptance - PAC with RAP													
Gradation													
Ignition method	(¹) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons							
Ignition method	Sampling (ACP) Reducing (ACP)		R 97 R 47			1/JMF & Each Calendar Year.							
(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 2 Days Prior to ACP Production													
Asphalt Content													
Ignition Method		TM 323			2327IC	A Sublot equals 1000 Tons							
Ignition Method	Sampling (ACP) Reducing (ACP)		R 97 R 47			1/JMF & Each Calendar Year.							
Meter Method	Asphalt Content		T 308		2277	1/Sublot or Min. 1/day							
⁽²⁾ ACP Plant Calibration Required at start of production and if meters fail to meet specification	Readings backed by Tank Measure & Production Records Daily	TM 321 ⁽²⁾ TM 322			2277	1/Sublot or Min. 1/day							
Meter Method is required for PAC even when acceptance is by Ignition Method					2043 & 2401	Daily Production							

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 ASSURANCE					
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
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					
Ignition method	Sampling (ACP) Reducing (ACP)				R 97 R 47					
(¹) Not required if Asphalt Content Accepted by Meter										
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate				T 30					
(¹) Submit Samples a minimum of 2 Days Prior to ACP Production										
Asphalt Content										
Ignition Method	(¹) Calibrate Incinerator	TM 323								
Ignition Method	Sampling (ACP) Reducing (ACP)				R 97 R 47					
(²) ACP Plant Calibration Required at start of production and if meters fail to meet specification	Asphalt Content				T 308					
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (²) TM 322								
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)							
Mixture Acceptance - PAC with and without RAP							
Mix Design Verification Testing							
						A Sublot equals 1000 Tons	
	Cold Feed Moisture			T255/T265	2277	1/Sublot or Min. 1/Day	
	ACP Moisture Content			T 329	2277	1/Sublot or Min. 1/Day	
Plant Discharge Moisture				T 329	2277	1/Sublot or Min. 1/Day	
(1) RAP Percentage	(1) RAP Moisture						
(1) If applicable	Readings backed by Tank Measure & Production Records Daily		TM321 (2) TM 322		2401 & 2043	Daily Production	
Asphalt Cement	Sampling Asphalt Materials			R 66	4000	1/Sublot - See section 4C	1/5 QC Samples (Random)
(2) ACP Plant Calibration Required at start of production and if meters fail to meet specification							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00744 - ASPHALT CONCRETE PAVEMENT							
Aggregate Production							
See Specifications when Aggregate Testing is Required by the Agency							
Mixture Acceptance							
Gradation							
Ignition method	(¹) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons	
Ignition method	Sampling (ACP) Reducing (ACP)		R 97 R 47			1/JMF & Each Calendar Year.	
(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 2 Days Prior to ACP Production							
Asphalt Content							
Ignition Method	(¹) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons	
Ignition Method	Sampling (ACP) Reducing (ACP)		R 97 R 47			1/JMF & Each Calendar Year.	
	Asphalt Content		T 308		2277	1/Sublot or Min. 1/day	
Mix Design Verification Testing							
Plant Discharge Moisture	ACP Moisture Content		T 329		2277	1/Sublot	
Maximum Density Test G _{mm}	Max. Specific Gravity MAMD		T 209		2050	1st Sublot Daily or Min. 1/Day	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2022)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)												
Compaction (D) See T 355 Yellow sheet for Density Test Locations	Nuclear Density of ACP			T 355	1793A	(D) Average 10 tests per Sublot or Min. 10/Day, See Section 00744.49						

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 ASSURANCE			Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory
		ODOT	WAQTC	AASHTO		Project Manager						
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE												
Aggregate Production	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208			T 104 T 96 T 113 T 90	4000	See Section 4A	Submit to Lab				See Section 4A
(1) QAE may waive after 5 sublots/shifts						4000						
(2) Perform a minimum of 3 tests QL's required												
(3) Coarse Agg (+ No. 4)					R 90 R 76 T 27/T 11 T 176							
(4) Fine Agg (- No. 4)												
Note: Sample Aggregate before Lime Treatment												
RAS Production (Reclaimed Asphalt Shingles)	Sieve Analysis Un-Washed Deleterious Materials	TM 229 TM 225			T 335 T 27	1792	1/Sublot			1 per 10 Sublots		
	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed					4000		Submit to Lab				
	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Deleterious Materials	TM 335			R 90 R 76 T 27							
						1792						
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 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:												
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				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)							
Mixture Acceptance - ACP " With and Without RAP"							
Gradation	Ignition method	TM 323	(1) Calibrate Incinerator	R 97 R 47 T 30	2327IC	1/JMF & Each Calendar Year.	1/JMF & Each Calendar Year.
(1) Submit Samples a minimum of 2 Days Prior to ACP Production	Asphalt Content	TM 323	(1) Calibrate Incinerator	R 97 R 47 T 308	2327IC	1/JMF & Each Calendar Year.	1/JMF & Each Calendar Year.
(2) RAP and RAS Percentage	(2) If Applicable	(3) TM 322	(2) RAP and RAS Moisture	T 329	2277	1/Sublot or Minimum 1/Day	1 per 10 Sublots
<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	Readings backed by Tank Measure & Production Records Daily	2401 ACP	2401 ACP	Daily Production	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE	
		ODOT	WAQTC			AASHTO	Project Manager
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)							
Mixture Acceptance - ACP "With and Without RAP"							
Mix Design Verification Testing Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity of ACP	TM 326	T 209	2050GV 2050 *5068	1/Sublot & according to Section 00745.16 (b)-1-d	1 per 10 Sublots	
Determination of G_{mb}	Bulk Specific Gravity of Compacted ACP		T 166	*2560 *5069			
Stripping Susceptibility	Tensile Strength Ratio		T 283		1/JMF See Section 00745.16 (b)-1-f		
*Cat-II complete & submit as required, See Section 745.16(b)				2050tsr			
Plant Discharge Moisture	ACP Moisture Content		T 329	2277	1/Sublot or Min. 1/Day		
Maximum Density Test G_{mm}	Max. Specific Gravity of ACP MAMD	TM 305	T 209	2050	1st Sublot Daily or Min. 1/Day		
Performing Control Strip	Control Strip	TM 306		2084 *5069	Develop Rolling Pattern See		
Compaction	Nuclear Density of ACP		T 355	1793A	^(D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2	^(D) 1 per 10 Sublots	
Asphalt Cement	Sampling Asphalt Materials		R 66	4000	1/Sublot See Section 4C	1 per 10 Sublots	1/5 QC Samples (Random)
^(D) See T 355 Yellow Sheet for Density Test Locations					Submit to Lab		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE							Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)										
Mixture Acceptance - ACP "With and Without RAP"										
Mix Design Verification Testing										
Lime							A Sublot equals 1000 Tons			
Latex							Material must meet the requirements of Section 2090			
							See Special Provisions for Latex Requirements			
Lime or Latex Treatment of Aggregate (Stockpile or Mixture Production)	(1) % Hydrated Lime	TM 321 (2) TM 322			2277 2277	1/Sublot		1 per 10 Sublots		
(2) ACP Plant Calibration Required at start of production and if meters fail to meet specification	Readings backed by Tank Measure & Production Records Daily				2401 ACP	Daily Production				
(1) If Applicable										
(1) See JMF for Details										
Smoothness										
Certification of Profiler Equipment		TM 769								
Determining International Roughness Index (IRI)		TM 772				See Special Provisions				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)					
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
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						A Sublot equals 1000 Tons				
⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates					R 90				1 per 10 Sublots
	Reducing Aggregates ⁽²⁾⁽³⁾⁽⁴⁾ Sieve Analysis ⁽⁴⁾ Fineness Modulus ⁽⁴⁾ Sand Equivalent ⁽¹⁾⁽³⁾ Wood Particles					R 76 T 27/T 11				
⁽²⁾ Perform a minimum of 3 tests, QL's required						T 176				
	⁽³⁾ Coarse Aggregate (See Section 02690.20)					T 335				
⁽⁴⁾ Fine Aggregate (See Section 02690.30)										
	Abrasion Degradation Soundness Lightweight Pieces Organics					T 96 T 104 T 113 T 21			See Section 4A & 02690	Submit to Central Lab
	⁽³⁾ Dry Rodded Unit Weight									
	⁽³⁾ Specific Gravity of Coarse Aggregate							Start of production and when changes in aggregate occurs		
	⁽⁴⁾ Specific Gravity of Fine Aggregate									
										See Section 4A

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory
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 Modifiers Admixtures	Materials must meet the requirements of Section 02001.10								
Curing Compounds	Material must meet the requirements of Section 02050								
Mixing Water	Material must meet the requirements of Section 02020								
^(S) 1 Set Represents a minimum of 3 Cylinders	Sampling Concrete	TM 2	T 152 T 119 T 121	3573W S or 4000C	1/ sublot or Minimum 1 per Day			1 per 10 Sublots	
	Air Content of Concrete								
	Slump of Concrete								
	Density (Unit Weight) of Concrete								
	Yield								
^(M) Per Mix Design & Source	Concrete Temperature		T 121 T 309 T 121						
	Water/Cement Ratio								
Smoothness	Fabrication of Concrete Cylinders/Beams		R 100		^(M) ^(S) 1 Set of Cylinders per Sublot or Minimum 1 set per Day			1 per 10 Sublots	
	Compressive Strength of Concrete		T 22	4000C					
Certification of Profiler Equipment		TM 769				See Special Provisions			
Determining International Roughness Index (IRI)		TM 772							
Thickness of Pavement		TM 775				See Specs			

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS											
Placement Evaluation "Retroreflectivity"											
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					

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 ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS										
Aggregate Production										
(1) QAE may waive after 5 sublots/shifts (2) Perform a minimum of 3 tests, QL's required (3) Coarse Aggregate (See Section 02690.20) (4) Fine Aggregate (See Section 02690.30)	Sampling Aggregates									
	Reducing Aggregates									
	(2)(3)(4) Sieve Analysis	R 90			1792					
	(4) Fineness Modulus	R 76								
	(1)(3) Wood Particles	T 27/T 11								
	(4) Sand Equivalent	T 27/T 11								
	Soundness	T 176								
	Abrasion	T 104			4000					
	Degradation	T 96								
	Lightweight Pieces Organics	T 113			4000					
	T 21									
	T 19			1825						
	T 85			1825C						
	T 84			1825						
(3) Dry Rodded Unit Weight (3) Specific Gravity of Coarse Aggregate (4) Specific Gravity of Fine Aggregate										
Materials must meet the requirements of Section 02001.10										
Slurry material must meet the requirements of Section 00921.14 & 00921.43(g)										
Material must meet the requirements of Section 02080										
Material must meet the requirements of Section 02020										
Portland Cement Modifiers Admixtures										
Drilling Slurry										
Grout										
Mixing Water										
Contractor Quality Control Project Manager Region Quality Assurance Materials Laboratory										
A Sublot equals 1,000 Tons										
1 per 10 Sublots										
Submit to Lab										
See Section 4A										
Start of production and when changes in aggregate occurs										
See Section 4(A)										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2022)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE				
		ODOT	WAQTC			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS										
Portland Cement Concrete										
	Sampling Concrete Slump of Concrete		TM 2	T 119	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	QA Testing				
	Concrete Temperature			T 309						
	Density (Unit Weight) of Concrete			T 121						
	Yield			T 121		Projects under 100 yd³ all classes 1/Project representing all classes of PCC				
	Water/Cement Ratio			T 121						
	Fabrication of Concrete Cylinders/Beams			R 100						
	Compressive Strength of Concrete			T 22		Projects over 100 yd³ all classes 1/500 yd ³ per class minimum 1/class				
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										
(S) 1 Set Represents a minimum of 3 Cylinders										
(M) Per Mix Design & Source										