

## 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 manual.

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

### Definitions

**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 manual.



## 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 10% 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 2016)			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
<b>SECTION 00330 - EARTHWORK</b> Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468	1/Soil type		1/Project	
	Bulk Specific Gravity			T 85	3468				
	Family of Curves			R 75	3468FC				
	Deflection Testing	TM 158			1793S	1 test per 3 ft. in depth			1 test per 10 QC Tests per Table 00330-1
	Nuclear Gauge Coarse Particle Correction			T 310	1793S	See Table 00330-1 Below			
Compaction	Deflection Testing	TM 158		T 99	1793S				
<b>TABLE 00330-1 Frequency of Quality Control Testing (English)</b>									
<b>Individual Areas</b>									
<b>Existing Ground Surface</b>									
Embankments									
Excavations and Finished Subgrade									
Stone Embankment Material (See Sec. 330.16(a))									
Compaction									
<p style="text-align: center;"><b>Under 3500 yd<sup>2</sup> or yd<sup>3</sup></b></p> <p style="text-align: center;"><b>Over 3500 yd<sup>2</sup> or yd<sup>3</sup></b></p>									
1 test per 1000 yd <sup>2</sup>									
1 test per 500 yd <sup>3</sup>									
1 test per 1000 yd <sup>2</sup>									
1 test per 3000 yd <sup>2</sup>									
1 test per 3000 yd <sup>3</sup>									
1 test per 3000 yd <sup>2</sup>									
<p>Gradation</p> <p>Deflection Testing</p> <p>TM 158</p>									
<p>Visual</p> <p>See Section 00330.16(b)</p>									
<p>1 per Layer</p>									
<p>See Section 4C</p> <p>1/Source &amp; 1/Type of Soil</p>									
<p>Submit to Lab</p>									
<p>4000</p>									
<p>Compliance</p>									
<p>Imported Topsoil (See Section 01040.14(b))</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.**

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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	
<b>SECTION 00331 - SUBGRADE STABILIZATION</b> Aggregate backfill	Material must meet the requirements of Section 00331.10					Visual				
Water	Material must meet the requirements of Section 00340					Visual				
Compaction	Material must meet the requirements of Section 00331					Visual				
<b>SECTION 00332 - SURFACING STABILIZATION</b> Aggregate Base	Material must meet the requirements of Section 00332.10					Visual				
Compaction	Material must meet the requirements of Section 00332					Visual				
<b>SECTION 00333 - AGGREGATE DITCH LINING</b> Aggregate	Sampling Reducing Sieve Analysis					1/Project or 1/Source				
				T 2 R 76 T 27/T 11	1792					

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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00344 - TREATED SUBGRADE</b>									
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime		T 27 T 219		4000 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 Water	Material must meet the requirements of Section 02010 Material must meet the requirements of Section 00340								
Establishing Maximum Density (for Compaction)	Density Curve Maximum Specific Gravity		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				
	Deflection Testing Nuclear Gauge Coarse Particle Correction		TM 158		1793S				
Compaction									
<b>TABLE 00344-1 Frequency of Quality Control Testing</b>									
<b>Individual Areas</b>					<b>Under 3500 yd<sup>2</sup></b>				
Finished Subgrade					1 test per 1000 yd <sup>2</sup>				
					<b>Over 3500 yd<sup>2</sup></b>				
					1 test per 3000 yd <sup>2</sup>				

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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
<b>SECTION 00360 - Drainage Blankets</b>								
Granular Drainage Blanket	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792	A sublot equals 1000 Tons		
Sand Drainage Blanket	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792			
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468			1/Project
Compaction	Bulk Specific Gravity			T 85	3468		1/Source and Type	
	Deflection Testing	TM 158			1793S		1 test per 3 ft. in depth	
	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158		T 310 T 99	1793S 1793S		See Table 00360-1 Below	1 Test per 10 QC Tests per Table 00360-1
<b>TABLE 00360-1 Frequency of Quality Control Testing</b>								
<b>Individual Areas</b>					<b>Over 3500 yd<sup>2</sup></b>			
Existing Ground Surface					1 test per 1000 yd <sup>2</sup>			
Finished Surfaces					1 test per 1000 yd <sup>2</sup>			



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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
<b>SECTION 00390 - RIPRAP PROTECTION</b>											
Fill Material & Riprap	Gradation See 00390.11(c-1)										
	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208		T 104 T 85	4000 1825	See Section 4(A)	Visual			See Section 4(A)	
Filter Blanket	Gradation See 00390.13						Visual				
Grouted Riprap Sand	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11		1/Project					
	Soundness Lightweight Pieces			T 104 T 113	4000	See Section 4(A)	Submit to Lab			See Section 4(A)	
Portland Cement	Material must meet the requirements of Section 02010										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
<b>SECTION 00396 - SHOTCRETE SLOPE STABILIZATION</b>							
Aggregate Production and Mixture	Sampling Reducing					A Sublot equals 1000 Tons	
(1) QAE may waive after 5 sublots/shifts	(2)(3) Sieve Analysis			T 2 R 76			
(2) Coarse Aggregate (See Section 02690.20)	(3) Fineness Modulus			T 27/T 11 T 27/T 11	1792		1 per 10 Sublots
(3) Fine Aggregate (See Section 02690.30)	(1)(2) Wood Particles	TM 225		T 176			
	(3) Sand Equivalent						
	Soundness			T 104			
	Abrasion			T 96	4000	Submit to Central Lab	See Section 4(A)
	Degradation	TM 208		T 113 T 21			
	Lightweight Pieces						
	Organics						
	(2) Dry Rodded Unit Weight			T 19			
	(2)(3) Bulk Specific Gravity & Absorption			T 84 & T 85	1825 1825C 1825		
Portland Cement	Material must meet the requirements of Section 02010						
Admixtures	Material must meet the requirements of Section 02040						
Mixing Water	Material must meet the requirements of Section 02020						
Production Testing (See Section 00396.14)	(5) Test Panel					Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.14(a)2	
(5) 3 Cores minimum per Panel	Strength			T 22	4000C	Submit to Central Lab	
Compression Test Cores						1/Set Cores per Test panel	

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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL</b>								
<b>TRENCH FOUNDATION - Excavation below grade only</b>								
Selected general backfill								
	Material must meet the requirements of Section 00330.13					Visual		
Selected granular backfill								
	Material must meet the requirements of Section 00330.14					Visual		
Selected stone backfill								
	Material must meet the requirements of Section 00330.15					Visual		
Other approved material								
	Material must meet the requirements of Section 00405.11					Visual		
Establishing Maximum Density	Density Curve			T 99	3468			
	Bulk Specific Gravity			T 85	3468		1/Soil Type or Aggregate Gradation	
	Family of Curves			R 75	3468FC			
	Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S		1test per 300 ft. of Trench	
Compaction								
<p><b>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.</b></p>								

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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				
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>													
3/8" - 0 PCC fine aggregate (See Section 02690.30(h))	Sampling Reducing Sieve Analysis			T 2 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 Reducing Sieve Analysis			T 2 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							Visual						
	<i>Material must meet the requirements of Section 00440</i>												

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<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>								
<b>Pipe Zone Material</b>								
Flexible Pipe		<i>Use the Listed Material requirements under Bedding</i>						
Rigid Pipe: Aggregate Base 1" - 0 or 3/4" - 0 Aggregate  (See Section 02630.10)	Sampling Reducing Sieve Analysis			T 2 R 76 T 27	1792	1/Source or Gradation		
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate							Visual	
Establishing Maximum Density  ( <sup>1</sup> ) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve  Bulk Specific Gravity  Coarse Particle Correction			( <sup>1</sup> ) T 99  T 85 T 99	3468  3468	1/Source or Aggregate Gradation		
Compaction	Nuclear Gauge			T 310	1793B	1 test per 300 ft. of Trench and every 1.5 ft. of Fill		
<b>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.</b>								

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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>										
<b>Trench Backfill</b>										
Class A Backfill - Native or common Material		Material must meet the requirements of Section 00330.43								
Class B Backfill - 1" -0 or 3/4" -0 Granular Material		Material must meet the requirements of Section 00641								
Class C Backfill - Clean sand with 100% minus 1/4" material										
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)		Material must meet the requirements of Section 00442								
Establishing Maximum Density  (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			(1) T 99	3468					
	Bulk Specific Gravity			T 85	3468				1/Soil Type or Aggregate Gradation	
	Family of Curves			T 272	3468FC					
Compaction  (C) Density testing is based on cumulative lineal feet of pipe placement.	Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S or 1793B				(C) 1 test per 300 ft. of Trench and every 1.5 ft. of Fill	
<p><b>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.</b></p>										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory					
		ODOT	WAQTC	AASHTO					FORM 734-				
<b>SECTION 00430 - SUBSURFACE DRAINS</b>													
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis	TM 208	T 2 R 76 T 27	1792	1/Sublot (Minimum 1/Project)	A Sublot equals 1000 Tons		See Section 4A					
									4000	Submit To Lab	See Section 4A		
Special Filter Material See Section 00430.46(a)	Abrasion Degradation		T 96										
<b>SECTION 00440 - COMMERCIAL GRADE CONCRETE</b>													
Mixture	Sampling Air Content Density (Unit Weight) Yield Slump Concrete Temperature	See section 405 for compaction requirements	TM 2	3573WS or 4000 C									
									Material must meet the requirements of Section 02030	T 152 T 121 T 121 T 119 T 309			
												Material must meet the requirements of Section 02040	
Structural Items	Strength		T 22 & T 23	4000C	(M)(S) 1 Set / Day Minimum								
	Strength		T 22 & T 23	4000C	(M) (S) 1 Set/20 yd <sup>3</sup> 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 734-734-	Contractor Quality Control	QUALITY ASSURANCE	
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM) CLSM Mixture	Mix Proportions Trial Batch Strength					1/Project or Source		
				T 22 & T 23	4000C			
	Material must meet the requirements of Section 02030							
	Material must meet the requirements of Section 02040							
Modifiers								
Admixtures								
Portland Cement								
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405								
<b>Trench Work</b>								
Excavation, bedding, pipe zone and trench backfill				See Section 00405 for pipes less than 72"				
Excavation, bedding, pipe zone and trench backfill				See Section 00510 for pipes greater than 72"				
Concrete Blocks				Material must meet the requirements of Section 00440				



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<b>SECTION 00450 - STRUCTURAL PLATE SHAPED STRUCTURES</b>								
Commercial Grade Concrete in appurtenances		Material must meet the requirements of Section 00440						
<b>Trench Work</b>								
Excavation and Backfill		Operations must meet the requirements of Section 00510						
<b>Trenches in Unstable Areas</b>								
Granular Structural Backfill		Material must meet the requirements of Section 00510						
Establishing Maximum Density	Density Curve			(1) T 99				
(1) Method "A"	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85			1/Aggregate Gradation and Source	
Compaction	Nuclear Gauge			T 310			1 Test per 100 ft. and 1 ft. of fill	
Structure Backfill (Section 00450.46)		Material and Operation must meet the requirements of Section 00510.48(d)						
<b>SECTION 00459 - CAST IN PLACE CONCRETE PIPE</b>								
Concrete		Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17						
Backfill Material		Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46						

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		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance
<b>SECTION 00460 - PAVED CULVERT END SLOPES</b>								
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>						
<b>SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS</b>								
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>						
<b>SECTION 00480 - DRAINAGE CURBS</b>								
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>						
Dense Graded H1MAC Mixture Level 2, (1/2")		<i>Material must meet the requirements of Section 00744</i>						

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<b>SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES</b>								
Commercial Grade Concrete		Material must meet the requirements of Section 00440						
High Early Strength Concrete		Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11						
Backfill Operations		Backfill Excavations according to section 405						
<b>Filling Abandoned Pipes, Manholes and Catch Basins (See section 00490.44)</b>								
Backfill Operations (Roadway)		Material must meet the requirements of Section 2630						
Establishing Maximum Density ( <sup>1</sup> ) Method "A"	Density Curve			( <sup>1</sup> ) T 99				
	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85			1/Aggregate Gradation and Source	
Compaction	Nuclear Gauge			T 310			1 Test per 100 ft. and every 1.5' of Fill	
Backfill Operations Landscaped or Unimproved Roadways		Material must meet the requirements of Section 00330.13						
Top 1.0' of Backfill Region		Material must meet the requirements of Section 00330.11						
<b>SECTION 00495 - TRENCH RESURFACING</b>								
Resurfacing Materials		See Section 00495.40 for Material Requirements						

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<b>SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL</b>										
Soils, Soil/Aggregate Mixtures and Graded Aggregates										
<b>Granular Structure Backfill</b> (See Section 02630.10)	Sampling Reducing (1) Sieve Analysis Fracture (Method 1) Sand Equivalent			T 2 R 76 T 27 T 335 T 176	1792	1/Sublot (Minimum 1/Project)				
Product Compliance	Abrasion Degradation	TM 208		T 96	4000	See Section 4C 1/Source	Submit to Lab			Minimum 1/Project or 1/Source
Establishing Maximum Density	Density Curve			(2) T 99	3468	1/Soil type or Aggregate Gradation				
(2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity			T 85	3468					
Compaction	Coarse Particle Correction			T 99	1793B					
	Nuclear Gauge			T 310		1/100 yd <sup>3</sup> minimum 1/project				
<p><b>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.</b></p>										

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<b>SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)</b>										
Soils, Soil/Aggregate Mixtures and Graded Aggregates										
Granular Wall Backfill (See Section 02630.11)	Sampling Reducing (1) Sieve Analysis Fracture (Method 2)	TM 208	T 2 R 76 T 27 T 335	AASHTO	1792	1/Sublot (Minimum 1/Project)	Project Manager	Region Quality Assurance	Materials Laboratory	A Sublot equals 1,000 Tons
Product Compliance	Abrasion Degradation	TM 208	T 96		4000	See Section 4C 1/Source	Submit to Lab			Minimum 1/Project or 1/Source
(2) Compaction	(2) Deflection Testing	TM 158			1793B	1/Sublot (Minimum 1/Project)				
<b>Note: Compaction must meet the requirements of section 00330.43c</b>										
<b>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.</b>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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		
<b>SECTION 00512 - DRILLED SHAFTS</b>											
Aggregate Production										A Sublot equals 1,000 Tons	
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent			T 2 R 76 T 27/T 11 T 27/T 11	1792						
(2) Perform a minimum of 3 tests, QL's required		TM 225		T 176	1792						1 per 10 Sublots
(3) Coarse Aggregate (See Section 02690.20)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96	4000						
(4) Fine Aggregate (See Section 02690.30)				T 113 T 21	4000					Submit to Lab	See Section 4(A)
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight (3)(4) Bulk Specific Gravity & Absorption			T 19 T 84 & T 85	1825 1825C 1825						
Drilling Slurry	Materials must meet the requirements of Section 02001.10										
Grout	Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)										
Mixing Water	Material must meet the requirements of Section 02080										
	Material must meet the requirements of Section 02020										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			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							
<b>SECTION 00512 - DRILLED SHAFTS (CONTINUED)</b>																
Portland Cement Concrete																
	Sampling Slump		TM 2	T 119 T 309 T 121 T 121 T 121	3573WS or 4000C	(M) <sup>(S)</sup> 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	QA Testing									
	Concrete Temperature						Projects under 100 yd <sup>3</sup> all classes 1/Project representing all classes of PCC									
	Density (Unit Weight)						Projects over 100 yd <sup>3</sup> all classes 1/500 yd <sup>3</sup> per class minimum 1/class									
	Yield				4000C											
	Water/Cement Ratio															
	Strength															
(S) 1 Set Represents a minimum of 3 Cylinders																
(M) Per Mix Design & Source																
<p align="center"><b>TABLE 00512-1 Frequency of Quality Control Testing</b></p> <p><u>Minimum frequencies per Class of concrete based on daily production records.</u></p> <table border="1"> <thead> <tr> <th><u>Production</u></th> <th><u>Frequencies</u></th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd<sup>3</sup> on a single day</td> <td>1 Set each day</td> </tr> <tr> <td><u>Quantity Over 100 yd<sup>3</sup></u> 100 to 600 yd<sup>3</sup> on a single day over 600 yd<sup>3</sup> on a single day</td> <td>1 Set per each 100 yd<sup>3</sup> or portion thereof 1 Set per each 200 yd<sup>3</sup> or portion thereof after reaching 600 yd<sup>3</sup></td> </tr> </tbody> </table>											<u>Production</u>	<u>Frequencies</u>	0 to 100 yd <sup>3</sup> on a single day	1 Set each day	<u>Quantity Over 100 yd<sup>3</sup></u> 100 to 600 yd <sup>3</sup> on a single day over 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof 1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>
<u>Production</u>	<u>Frequencies</u>															
0 to 100 yd <sup>3</sup> on a single day	1 Set each day															
<u>Quantity Over 100 yd<sup>3</sup></u> 100 to 600 yd <sup>3</sup> on a single day over 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof 1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>															

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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	
<b>SECTION 00540 - STRUCTURAL CONCRETE</b>										
Aggregate Production									A Sublot equals 1,000 Tons	
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4) Sieve Analysis			T 2 R 76	1792					
(2) Perform a minimum of 3 tests, QL's required	(4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent	TM 225		T 27/T 11 T 27/T 11 T 176	1792			1 per 10 Sublots		
(3) Coarse Aggregate (See Section 02690.20)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96 T 113 T 21	4000			Submit To Lab		See Section 4A
(4) Fine Aggregate (See Section 02690.30)	(3) Dry Rodded Unit Weight (3)(4) Bulk Specific Gravity & Absorption			T 19 T 84 & T 85	1825 1825C 1825			See Section 4A	Start of production and when changes in aggregate occurs	
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 2016)				Same Frequency for all Tests (Minimums)											
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	QUALITY ASSURANCE													
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory										
<b>SECTION 00540 - STRUCTURAL CONCRETE (CONTINUED)</b>																			
Portland Cement Concrete	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio  Strength		TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000C						<b>QA Testing</b>								
(S) 1 Set Represents a minimum of 3 Cylinders						(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.					<b>Projects under 100 yd³ all classes</b> 1/Project representing all classes of PCC								
(M) Per Mix Design & Source					4000C						<b>Projects over 100 yd³ all classes</b> 1/500 yd³ per class minimum 1/class								
<p align="center"><b>TABLE 00540-1 Frequency of Quality Control Testing</b></p> <p align="center"><b>Minimum frequencies per Class of concrete based on daily production records.</b></p> <table border="0"> <tr> <td><b>Production</b></td> <td>0 to 100 yd³ on a single day</td> <td><b>Frequencies</b></td> <td>1 Set each day</td> </tr> <tr> <td><b>Quantity Over 100 yd³</b></td> <td>100 to 600 yd³ on a single day over 600 yd³ on a single day</td> <td></td> <td>1 Set per each 100 yd³ or portion thereof 1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </table>												<b>Production</b>	0 to 100 yd³ on a single day	<b>Frequencies</b>	1 Set each day	<b>Quantity Over 100 yd³</b>	100 to 600 yd³ on a single day over 600 yd³ on a single day		1 Set per each 100 yd³ or portion thereof 1 Set per each 200 yd³ or portion thereof after reaching 600 yd³
<b>Production</b>	0 to 100 yd³ on a single day	<b>Frequencies</b>	1 Set each day																
<b>Quantity Over 100 yd³</b>	100 to 600 yd³ on a single day over 600 yd³ on a single day		1 Set per each 100 yd³ or portion thereof 1 Set per each 200 yd³ or portion thereof after reaching 600 yd³																

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		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
<b>SECTION 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY</b>								
Aggregate Production	Sampling Reducing Sieve Analysis			T 2 R 76 T 27	1792	1/Project or 1/Source		
	Moisture Content			T 255/265	1792	Material must meet the requirements of section 00556.10		
Product Compliance	Absorption Abrasion Loss Mohs Hardness Scale			T 84 T 327	4000	1/Project or 1/Source	Submit to Central Lab	
Polymer Resin	Material must meet the requirements of section 00556.10							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		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	
<b>SECTION 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS</b>										
Aggregate Production										A Sublot equals 500 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 500 Tons.)
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4)				1792	T 2				
(2) Perform a minimum of 3 tests, QL's required	Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent				1792	R 76 T 27/T 11 T 27/T 11 T 176				1 per 10 Sublots
(3) Coarse Aggregate (See Section 02690.20 & 00559.10)	(1)(3) Elongated Pieces (1)(3) Wood Particles	TM 229 TM 225			1792					
(4) Fine Aggregate (See Section 02690.30 & 00559.10)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208			4000	T 96 T 104 T 113 T 21			Submit to Central Lab	See Section 4(A)
	(3) Dry Rodded Unit Weight				4000					
	(3)(4) Bulk Specific Gravity & Absorption				1825 1825C 1825	T 19 T 84 & T 85				Start of production and when changes in aggregate occurs
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 2016)

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
<b>SECTION 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS (CONTINUED)</b>								
SFC AND LMC	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield W/C Ratio	TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000 C	A sublot equals 1 set of tests per 50 yd3			1 per 10 Sublots
Latex Modified Concrete	Fine Aggregate Moisture		T 255/T 265	1792			See Section 00559.10	
	Mixer Calibration						See Section 00559.22	
(M) Per Mix Design & Source								
SFC and LMC	Strength		T 22 & T 23	4000C	(M) (S) 1 Set Cylinders per 50yd <sup>3</sup> Minimum 1 set/shift			1 Set per 500 yd <sup>3</sup>
(S) 1 Set Represents a minimum of 3 Cylinders								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		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												
<b>SECTION 0A596 - MECHANICALLY STABILIZED EARTH RETAINING WALLS</b>																					
<b>Aggregate Production</b>																					
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	See Section 4A	See Section 4A											
											A Sublot equals 1,000 Tons Minimum 1/Project										
											Sampling Reducing Sieve Analysis Sand Equivalent	T 2 R 76 T 27 T 176	1792	1/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	
																					Fracture (Method 1)
Modular Block Core and Drainage 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														
								Modular Block Core and Drainage Backfill  ( <sup>1</sup> ) QAE may waive after 5 sublots/shifts  ( <sup>2</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Reducing Sieve Analysis Fracture (Method 2) Elongated Pieces	TM 225 TM 229	T 2 R 76 T 27/T 11 T 335	1792 1792	1/Sublot	A Sublot equals 1,000 Tons	See Section 4C	Submit To Lab	See Section 4C				
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sieve Analysis	TM 208	T 96 T 27	4000 4000	See Section 4C	Submit To Lab	See Section 4C														

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			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				
<b>SECTION 0A596 - MECHANICALLY STABILIZED EARTH RETAINING WALLS</b>											Testing Frequency for Product Compliance per Source		
<b>Aggregate Production</b>											1/5,000 Tons Minimum 1/Project		
Gabion Basket Fill (Product Compliance)	Degradation Soundness Apparent Specific Gravity & Absorption  Gradation	TM 208		T 104 T 85	4000	See Section 4C	Submit to Lab	Visual				See Section 4C	
					1825								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)				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		
<b>SECTION 0A596 - MSE RETAINING WALLS</b>											
<b>Aggregate Production</b>											
MSE Granular Wall Backfill (Product Compliance) (Also reference 02.630.10)	Abrasion Degradation Sieve Analysis Plasticity Index pH 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	See Section 4C	Submit to Central Lab				
A Sublot Equals 2,000 Tons											
MSE Granular Wall Backfill  ( <sup>1</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Reducing ( <sup>1</sup> ) Sieve Analysis Sand Equivalent  Fracture (Method 1)			T 2 R 76 T 27 T 176  T 335				1/Sublot			
					1792						
					1792			1/5 Sublots			
<b>Placement</b> Establishing Maximum Density  ( <sup>1</sup> ) Method A	Density Curve			( <sup>1</sup> ) T 99	3468						
	Bulk Specific Gravity			T 85				1/Aggregate Gradation/Per Source			
	Coarse Particle Correction	TM 223			3468						
Compaction	Nuclear Gauge Deflection Testing	TM 158		T 310	1793B			1/ 100 yd3 (Minimum 1/day)			
<b>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.</b>											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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		
<b>SECTION 0B596 - PREFABRICATED MODULAR RETAINING WALLS</b>											
<b>Aggregate Production</b>											
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208			T96	4000	See Section 4A	Submit to Lab		See Section 4A	
	Sampling Reducing Sieve Analysis Sand Equivalent				T 2 R 76 T 27 T 176	A Sublot equals 1,000 Tons Minimum 1/Project					
						1792	1/Sublot				
		Fracture (Method 1)				1792	1/5 Sublots				
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project											
Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208			T 104 T 96	4000	See Section 4C & 02690	Submit To Lab		See Section 4C	
					T 113						
Modular Block Core and Drainage Drainage Backfill  ( <sup>1</sup> ) QAE may waive after 5 sublots/shifts  ( <sup>2</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Reducing Sieve Analysis Fracture (Method 2) Elongated Pieces	TM 225			T 2 R 76 T 27/T 11	1792	1/Sublot				
					T 335						
		TM 229									
A Sublot equals 1,000 Tons											
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	
	Sieve Analysis				T27	4000	1/Sublot				



FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			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			
<b>SECTION 0B596 - PREFABRICATED MODULAR RETAINING WALLS</b>												
<b>Aggregate Production</b>											Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	
Gabion Basket Fill (Product Compliance)	Degradation Soundness Apparent Specific Gravity & Absorption  Gradation	TM 208		T 104 T 85	4000	See Section 4C	Submit to Lab	Visual				See Section 4C
					1825							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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
<b>SECTION 0B596 - PREFABRICATED MODULAR RETAINING WALLS</b>									
<b>Aggregate Production</b>									
Granular Structure Backfill (Product Compliance) (Also reference 02.630.10)	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				
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project									
A Sublot Equals 2,000 Tons									
Granular Structure Backfill  ( <sup>1</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Reducing ( <sup>1</sup> ) Sieve Analysis Sand Equivalent Fracture (Method 1)			T 2 R 76 T 27 T 176		1/Sublot			
					1792				
Placement	Establishing Maximum Density  ( <sup>1</sup> ) Method A			<sup>(1)</sup> T 99 T 85		1/Aggregate Gradation/Per Source			
					1792				
Compaction	Density Curve  Bulk Specific Gravity  Coarse Particle Correction  Nuclear Gauge Deflection Testing	TM 223    TM 158		T 310	3468	1/ 100 yd3 (Minimum 1/day)			
					3468				
					1793B				
<p><b>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.</b></p>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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	
<b>SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS</b>										
<b>Aggregate Production</b>										
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sampling Reducing Sieve Analysis	TM 208		T 96	4000	See Section 4C	Submit To Lab			See Section 4C
					4000					
					1/Sublot					
Granular Structure Backfill					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project					
					4000	See Section 4C	Submit to Central Lab			See Section 4C
4000										
Granular Structure 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					
					1/Sublot					
Granular Structure Backfill  (1) Perform a minimum of 3 tests, QL's required	Sampling Reducing (1) Sieve Analysis  Fracture (Method 1)			T 2 R 76 T 27  T 335	1792	1/Sublot				
					1792					
					1/5 Sublots					
A Sublot Equals 2,000 Tons										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)				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		
<b>SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS</b>											
<b>Placement</b>											
Granular Structure Backfill	Density Curve			(1) T 99	3468						
Establishing Maximum Density	Bulk Specific Gravity			T 85	3468	1/Aggregate Gradation/Per Source					
(1) Method A	Coarse Particle Correction	TM 223									
Compaction	Nuclear Gauge Deflection Testing	TM 158		T 310	1793B	1/ 100 yd3 (Minimum 1/day)					
<p><b>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.</b></p>											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
<b>SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE</b>											
Aggregate Subbase Grading (See 00635.10)	Abrasion			T 96	4000	1/Source		Submit To Central Lab		See Section 4(A)	
	Sampling Reducing Sieve Analysis Sand Equivalent			T 2 R 76 T 27 T 176	1792	1/Sublot & Start of Production					

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
<b>SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS</b>								
Aggregate Production	Abrasion			T 96	4000	See Sec. 4A	Submit To Central Lab	See Section 4(A)
Aggregate Subbase Grading (See 00641.10(b))	Sampling Reducing Sieve Analysis Sand Equivalent			T 2 R 76 T 27 T 176	1792	1/Project or 1/Source	Visual	
Aggregate Base and Shoulders	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab	See Section 4A
Grading					A Sublot equals 2000 Tons			
Aggregate Base (See 02630)	Sampling Reducing			T 2 R 76 T 27 T 176	1792	1/Sublot & Start of Production		1 per 10 Sublots
Aggregate Shoulder (See 02640)	(1) Sieve Analysis (2) Sand Equivalent							
Open Graded Aggregate Base (See 02630.11)								
(1) Perform at least 3 tests (2) May be waived by QAE	Fracture (Method 1)			T 335	1792	1/5 Sublots		
<b>Placement</b>								
Aggregate Base					A Sublot equals 2000 Tons			
Plant Mix Applications Only								
Aggregate (Mixture)	Sampling Reducing Moisture			T 2 R 76 T 255 & T 265	1792	1/Sublot or minimum 1/Day		1 per 10 Sublots
Establishing Maximum Density & Optimum Moisture (Mix Design)	Density Curve Coarse Particle Correction	TM 223		(3) T 99	3468 B	Each Size per Source		1/Project
Compaction	Bulk Specific Gravity			T 85	3468 B			
	Deflection Testing	TM 158			1793B	1 per Sublot		
(b) (Individual tests must meet Specification)	Nuclear Gauge			T 310	1793B	(b) 5 Tests Per Sublot		(b) 1 (5 Tests) per 10 Sublots

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)</b>									
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	Project Manager	Region Quality Assurance
<b>SECTION 00680 - STOCKPILED AGGREGATES</b>								
Aggregate Base and Shoulders (See Section 00641)	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab	See Section 4A
	Sampling Reducing (1) Sieve Analysis (2) Sand Equivalent			R 76 T 27 T 176	1792	1/Sublot & Start of Production		1 per 10 Sublots
		Fracture (Method 1)			T 335	1792	1/5 Sublots	
	A Sublot equals 2,000 Tons							
Aggregate (Sanding Aggregate)	Sampling Reducing Sieve Analysis (1) Cleanness Value	TM 227		T 2 R 76 T 27	1792	1/Sublot & Start of Production		1 per 10 Sublots
		TM 208		T 96 T 113	4000	See Section 4A	Submit to Lab	See Section 4A
	Abrasion Degradation Lightweight Pieces	TM 229 TM 225		T 335	1792	1/5 Sublots & Start of Production		1 per 10 Sublots
		A Sublot equals 1000 Tons						



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		
<b>SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)</b>											
<b>Emulsified AC Aggregate</b> 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	Abrasion Degradation Soundness Lightweight Pieces Sampling Reducing (5) Fracture (Method 1) (1) Wood Particles (1)(4) Elongated Pieces (2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight	TM 208			T 96	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	See Section 4A	Submit to Lab	See Section 4A		
					T 104 T 113					See Section 4A	1 per 10 Sublots
					T 2 R 76 T 335						
					T 277/T 11					Start of production and when changes in aggregate occurs	
					T 19						1825 1825C
<b>Aggregate (Other)</b>											
Use sampling and testing frequencies required for proposed end product use											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		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	
<b>SECTION 00705 - EMULSIFIED ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT</b>										
<b>Aggregate Cover Material</b>										
Aggregate Production	Sampling Reducing Sieve Analysis			T 2 R 76 T 27	1792	1/Sublot & Start of Production		1 per 10 Sublots		
Asphalt Prime and Fog Coat	Compliance			R 66	4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab			1/5 QC Samples (Random)
<b>SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING</b>										
<b>Aggregate Production</b>										
(1) Perform at least 3 tests, QL's required	Sampling Reducing (1) Sieve Analysis			T 2 R 76 T 27/T 11	1792	1/Sublot & Start of Production				
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Compliance				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				(Revised November 2016)		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											
<b>SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT</b>																				
<b>Aggregate Production</b>																				
Abrasion Degradation Soundness Lightweight Pieces  Sampling Reducing <sup>(5)</sup> Fracture (Method 1) <sup>(1)</sup> Wood Particles <sup>(1)(4)</sup> Elongated Pieces <sup>(2)</sup> Sieve Analysis <sup>(3)</sup> Cleaness Value  Dry Rodded Unit Weight  <sup>(3)</sup> May be waived by QAE  <sup>(4)</sup> Not required for Dry Key Material <sup>(5)</sup> 1/5 Sublots & Start of Production	TM 208   TM 225 TM 229 TM 227	T 96 T 104 T 113  T 2 R 76 T 335  T27/T 11  T 19	4000 4000  1792 1792  1825 1825C	See Section 4A  1/Sublot & Start of Production  Start of production and when changes in aggregate occurs	Submit to Central Lab  1 per 10 Sublots	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	See Section 4A	See Section 4A	1/5 QC Samples (Random)											
										Compliance	R 66	4000	1/50 Tons Submit All	Submit to Lab						
										<b>Preproduced Aggregate</b>										
										Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:										
										1. Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00710.10 and 710.15 Aggregate Production except change the sampling frequency to the following:										
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons". b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. c. Provide one stockpile sample for each set of tests required above.																				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		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		
<b>SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT</b>											
<b>Aggregate Production</b>											
Abrasion Degradation Soundness Lightweight Pieces  Sampling Reducing <sup>(5)</sup> Fracture (Method 1) <sup>(1)</sup> Wood Particles <sup>(1)(4)</sup> Elongated Pieces <sup>(2)</sup> Sieve Analysis <sup>(3)</sup> Cleanness Value  Dry Rodded Unit Weight  Compliance	TM 208   TM 225 TM 229  TM 227	T 96 T 104 T 113  T 2 R 76 T 335  T27/T 11  T 19  R 66	4000  4000  1792  1792  1825 1825C  4000	A subplot equals 500 Tons. A minimum 1 per shift whichever results in the greatest sampling frequency						See Section 4A  Submit to Central Lab  1/5 Sublot & Start of Production  Start of production and when changes in aggregate occurs  1/50 Tons Submit All	See Section 4A  1 per 10 Sublots  1/5 QC Samples (Random)
				<sup>(1)</sup> QAE may waive after 5 sublots/shifts							
				<sup>(2)</sup> 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							
				<sup>(3)</sup> May be waived by QAE							
				<sup>(4)</sup> Not required for Dry Key Material <sup>(5)</sup> 1/5 Sublots & Start of Production							
<b>Preproduced Aggregate</b>											
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:											
1. Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production.											
2. Furnish records of testing for the entire stockpile according to Section 00711.10 and 711.15 Aggregate Production except change the sampling frequency to the following:											
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".											
b. One Per subplot 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					Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Contractor Quality Control	QUALITY ASSURANCE	
		ODOT	WAQTC			AASHTO	Project Manager
<b>SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT (CONTINUED)</b>							
<b>Mixture Acceptance</b>							
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (1) TM 322			2277	1/Sublot or Min. 1/Day	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency
<sup>(1)</sup> Required at start of production and if meters fail to meet specification	Cold Feed Moisture	T 255/265			2043 and 2401	Daily Production	
					2277	1/Sublot or Min. 1/Day	
Plant Discharge Moisture	Asphalt Mix Moist.	T 329			2277	1/Sublot	
					4000	1/50 Tons Submit All	
Asphalt Cement	Compliance	R 66				Submit to Lab	1/5 QC Samples (Random)

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		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
<b>SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT</b>									
<b>Aggregate Production</b>									
<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 &amp; Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	Abrasion Degradation Soundness Lightweight Pieces	TM 208	T 96 T 104 T 113	4000	See Section 4A	Submit to Central Lab			See Section 4A
	Sampling Reducing		T 2 R 76 T 335		1/5 Sublot & Start of Production			1 per 10 Sublots	
	(5) Fracture (Method 1)								
	(1) Wood Particles	TM 225		1792					
	(1)(4) Elongated Pieces	TM 229	T27/T 11						
	(2) Sieve Analysis								
	(3) Cleanness Value	TM 227							
	Dry Rodded Unit Weight		T 19	1825 1825C					
			R 66	4000	1/50 Tons Submit All	Submit to Lab			1/5 QC Samples (Random)
<b>Preproduced Aggregate</b>									
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:									
<ol style="list-style-type: none"> <li>Continuing production records meeting the above requirements of Section 00712.10 and 712.15, Aggregate Production.</li> <li>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: <ol style="list-style-type: none"> <li>One Per 5 sublots means "One Set of Tests Per 2500 Tons".</li> <li>One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.</li> <li>Provide one stockpile sample for each set of tests required above.</li> </ol> </li> </ol>									

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				
<b>SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT</b>													
<b>Aggregate Production</b>  (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  <b>Asphalt Cement (Emulsion)</b>	Abrasion Degradation Soundness Lightweight Pieces  (5) Fracture (Method 1) (1) Wood Particles (1)(4) Elongated Pieces (2) Sieve Analysis (3) Cleanness Value  Dry Rodded Unit Weight  Compliance	TM 208  TM 225 TM 229 TM 227	T 96 T 104 T 113  T 335  T27/T 11  T 19  R 66	4000 4000 1792 1792 1825 1825C 4000	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency  See Section 4A  1/Sublot & Start of Production  Start of production and when changes in aggregate occurs  1/50 Tons Submit All	Submit to Central Lab  1 per 10 Sublots  Submit to Lab  1/5 QC Samples (Random)							
							<b>Preproduced Aggregate</b>						
							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:						
							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 2016)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE			Materials Laboratory		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Independent Project Manager		Region Quality Assurance	
<b>SECTION 00720 - COLD IN-PLACE RECYCLED ASPHALT CONCRETE PAVEMENT (CIR)</b>										
<b>SECTION 00721 - COLD RECYCLED EMULSIFIED ASPHALT CONCRETE PAVEMENT (CRP)</b>										
Asphalt Cement (Emulsified Recycling Agent)	Compliance		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 Reducing Sieve Analysis		T 2 R 76 T 27	1792	1/Sublot & Start of Production		Minimum 1/Project			
<b>SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT</b>										
<i>The type of recycling agent will be listed in the Special Provisions</i>										
Recycling Agent (See 00745.11)	Compliance		R 66	4000	See Section 4C	Submit to Lab		1/5 QC Samples (Random)		
Recycling Agent	Compliance		R 66	4000	1/50 Tons	Submit to Lab				
<b>Asphalt Concrete Mixture</b>										
<b>SECTION 00730 - ASPHALT TACK COAT</b>										
Tack	Compliance		R 66	4000	See Section 4C 1/50 Tons	Submit to Lab		1/50 Tons or All QC Samples		



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)				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								
<b>SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT</b>																	
Aggregate production	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000						See Section 4A	Submit to Lab				See Section 4A	
					4000												
					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)												
<sup>(1)</sup> Perform at least 3 tests, QL's required	Sampling Reducing			T 2 R 76 T 27/T 11	1792												
					1792												
					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)												
<sup>(2)</sup> May be waived by QAE	<sup>(1)</sup> Sieve Analysis <sup>(2)</sup> Cleaness Value Fracture (Method 1 & 2)	TM 227		T 335	1792												
					1792												
					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)												
<sup>(3)</sup> QAE may waive after 5 sublots/shifts	<sup>(3)</sup> Elongated Pieces <sup>(3)</sup> Wood Particles	TM 229 TM 225		T 27	1792												
					1792												
					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)												
<b>Choke Aggregate</b>																	
												1/Sublot			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	Materials Laboratory	
<b>SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)</b>										
Mixture Acceptance										
	Sampling Reducing Sieve Analysis Moisture Content			T 2 R 76 T 27/T 11 T 255						
% Emulsified Asphalt <sup>(1)</sup> Required at start of production and if meters fail to meet specification	Meter Backed by Tank Measure Daily	TM 321 <sup>(1)</sup> TM 322			2401 & 2043					
Emulsified Asphalt Cement	Compliance			R 66	4000	See Section 4C 1/Sublot (Submit All)	Submit to Lab	1 per 10 Sublots		1/5 QC Samples (Random)
<b>SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)</b>										
See Specifications when Testing is Required by Agency										

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
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)</b>								
Aggregate Production	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208		T 104 T 96 T 113 T 90	4000  4000		See Section 4A  Submit to Lab	See Section 4A
(1) QAE may waive after 5 sublots/shifts								
(2) Not required for ATPB Mix	Sampling Reducing			T 2 R 76 T 27/T 11 T 176				
(3) Coarse Agg (+ No. 4)	(3)(4) Sieve Analysis (1)(4) Sand Equivalent				1792			
(4) Fine Agg (- No. 4)	(1)(2)(3) Elongated Pieces TM 229 (3)(4) Fracture (Method 2) (1)(2)(3) Wood Particles TM 225			T 335	1792			
<b>Preproduced Aggregate</b>								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
<ol style="list-style-type: none"> <li>1. Continuing production records meeting the above requirements of Section 00743.10 Aggregate Production.</li> <li>2. Furnish records of testing for the entire stockpile according to Section 00743.10 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> <li>a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".</li> <li>b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.</li> <li>c. Provide one stockpile sample for each set of tests required above.</li> </ol> </li> </ol>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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	
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>										
Mixture Acceptance - PAC with RAP										
Gradation										
Ignition method	Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons				
						T 168 R 47	1/JMF & Each Calendar Year.			
							1/Sublot or Min. 1/Day			
(Residual aggregate from AASHTO T 308)	Sieve analysis				2277	1/Sublot or Min. 1/day				
<b>Asphalt Content</b>										
Ignition Method	Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons				
						T 168 R 47	1/JMF & Each Calendar Year.			
Meter Method	Asphalt Content	Readings backed by Tank measure & Production Records Daily	TM 321 (2) TM 322		2277		1/Sublot or Min. 1/day			
						2043 and 2401	Daily Production			
<b>(2) Required at start of production and if meters fail to meet specification</b>										
<b><u>Meter Method is required for PAC even when acceptance is by Ignition Method</u></b>										

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
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>									
<b>Mixture Acceptance - PAC without RAP</b>									
<b>Gradation</b>									
Cold Feed Method	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	2277	1/Sublot or Min. 1/Day			
Ignition method	Calibrate Incinerator	(1) TM 323			2327IC	1/JMF & Each Calendar Year.			
Ignition method	Sampling Reducing			T 168 R 47		1/Sublot or Min. 1/Day			
<b>(1) Not required if Asphalt Content Accepted by Meter Method</b>  (Residual aggregate from AASHTO T 308)	Sieve analysis			T 30	2277	1/Sublot or Min. 1/day			
<b>Asphalt Content</b>									
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.			
Ignition Method	Sampling Reducing			T 168 R 47		1/Sublot or Min. 1/day			
<b>(2) Required at start of production and if meters fail to meet specification</b>	Asphalt Content			T 308	2277				
Meter Method	Readings backed by Tank measure & Production Records Daily	TM 321 (2) TM 322			2277	1/Sublot or Min. 1/day			
<b>Meter Method is required for PAC even when acceptance is by Ignition Method</b>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>									
Mixture Acceptance - PAC with and without RAP									
Mix Design Verification Testing									
	Cold Feed Moisture			T255/T265	2277	1/Sublot or Min. 1/Day			
	Asphalt Mix Moist.			T 329	2277	1/Sublot or Min. 1/Day			
	<sup>(1)</sup> RAP Moisture			T 329	2277	1/Sublot or Min. 1/Day			
	Readings backed by Tank measure & Production Records Daily		TM321 <sup>(2)</sup> TM 322		2401 & 2043	Daily Production			
	Compliance			R 66	4000	1/Sublot - See section 4C	Submit to Lab		1/5 QC Samples (Random)
	Asphalt Cement								
	<sup>(2)</sup> Required at start of production and if meters fail to meet specification								

A Sublot equals 1000 Tons

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
<b>SECTION 00744 - ASPHALT CONCRETE PAVEMENT</b>								
Aggregate Production								
Mixture Acceptance								
Gradation								
See Specifications when Aggregate Testing is Required by the Agency								
A Sublot equals 1000 Tons								
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.		
Ignition method	Sampling Reducing		T 168 R 47			1/Sublot or Min. 1/Day		
(Residual aggregate from AASHTO T 308)	Sieve analysis		T 30		2277	1/Sublot or Min. 1/Day		
A Sublot equals 1000 Tons								
<b>Asphalt Content</b>								
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.		
Ignition Method	Sampling Reducing Asphalt Content		T 168 R 47 T 308		2277	1/Sublot or Min. 1/day		
A Sublot equals 1000 Tons								
<b>Mix Design Verification Testing</b>								
Plant Discharge Moisture	Asphalt Mix Moist.		T 329		2277	1/Sublot		
Maximum Density Test G <sub>mm</sub>	Max. Specific Gravity MAMD	TM 305	T 209		2050	1st Sublot Daily or Min. 1/Day		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			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
<b>SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)</b>										
Compaction	Nuclear Density				T 355					
						1793A	(D) Average 10 tests per Sublot or Min. 10/Day, See Section 00744.49			



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		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
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE</b>									
<b>Aggregate Production</b>	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
( <sup>1</sup> ) QAE may waive after 5 sublots/shifts					4000				
( <sup>2</sup> ) Perform a minimum of 3 tests QL's required						A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency			
( <sup>3</sup> ) Coarse Agg (+ No. 4)	Sampling Reducing ( <sup>2</sup> )( <sup>3</sup> )( <sup>4</sup> ) Sieve Analysis ( <sup>1</sup> )( <sup>4</sup> ) Sand Equivalent			T 2 R 76 T 27/T 11 T 176	1792	1/Sublot & Start of Production		1 per 10 Sublots	
( <sup>4</sup> ) Fine Agg (- No. 4)									
Note: Sample Aggregate before Lime Treatment	( <sup>1</sup> )( <sup>3</sup> ) Elongated Pieces TM 229 ( <sup>3</sup> )( <sup>4</sup> ) Fracture (Method 2) ( <sup>1</sup> )( <sup>3</sup> ) Wood Particles TM 225			T 335	1792	1/5 Sublots & Start of Production			
<b>RAS Production</b> (Reclaimed Asphalt Shingles)	Sieve Analysis Deleterious Materials TM 335			T 27	4000	1 / 500 Tons	Submit to Lab		
	Sampling Reducing Sieve Analysis Deleterious Materials TM 335			T 2 R 76 T 27	1792	1 / 50 Tons			
<b>Preproduced Aggregate</b>									
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					(Revised November 2016)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			Materials Laboratory	
		ODOT	WAQTC	AASHTO			Independent Project Manager	Region Quality Assurance	Assurance		
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>											
<b>Mixture Acceptance - ACP Without RAP</b>											
A Sublot equals 1000 Tons											
<b>Gradation</b>											
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.		1/JMF & Each Calendar Year.			
Ignition method	Sampling Reducing		T 168 R 47			1/Sublot		1 per 10 Sublots			
(Residual aggregate from AASHTO T 308)	Sieve analysis		T 30		2277	1/Sublot		1 per 10 Sublots			
<b>Asphalt Content</b>											
A Sublot equals 1000 Tons											
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.		1/JMF & Each Calendar Year.			
Ignition Method	Sampling Reducing Asphalt Content		T 168 R 47 T 308		2277	1/Sublot or Min. 1/day		1 per 10 Sublots			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)				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		
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>											
<b>Mixture Acceptance - ACP Without RAP</b>											
<b>Mix Design Verification Testing</b>											
Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity	TM 326		T 209	2050GV	1/Sublot & according to Section 00745.16 (b)-1-d	1 per 10 Sublots				
					2050						
Determination of G <sub>mb</sub>	Bulk Specific Gravity			T 166	*5068						
					*2560						
Stripping Susceptibility	Tensile Strength Ratio			T 283	*5069						
*Cat-II complete & submit as required, See Section 745.16(b)					2050tsr	1/JMF See Section 00745.16 (b)-1-f					
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2277	1/Sublot					
Maximum Density Test G <sub>mm</sub>	Max. Specific Gravity MAMD	TM 305		T 209	2050	1st Sublot Daily or Min. 1/Day					
Performing Control Strip	Control Strip	TM 306		T 355	2084	Develop Rolling Pattern See Specs.					
					*5069						
Compaction	Nuclear Density				1793A	Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2					(D) 1 per 10 Sublots
Asphalt Cement	Compliance			R 66	4000	1/Sublot See Section 4C	Submit to Lab				1 per 10 Sublots
(D) See T 355 YellowSheet for Density Test Locations											1/5 QC Samples (Random)

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
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>						
<b>Mixture Acceptance - ACP Without RAP</b>						
<b>Mix Design Verification Testing</b>						
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (2) TM 322			2277	1/Sublot or Min. 1/Day
(2) Required at start of production and if meters fail to meet specification	Cold Feed Moisture		T 255/265		2043 and 2401	Daily Production
Lime					2277	1/Sublot or Min. 1/Day
Latex	Material must meet the requirements of Section 2090					
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)	See Special Provisions for Latex Requirements					
(3) See JMF for Details	(3) % Hydrated Lime	TM 321 (2) TM 322			2277	1/Sublot
	Readings backed by Tank Measure & Production Records Daily				2277	
<b>Smoothness</b>					2043 and 2401	Daily Production
Certification of Profiler Equipment Determining Profile Index Determining International Roughness Index	TM 769 TM 770 TM 772					See Special Provisions
<b>Meter Method is required for ACP even when acceptance is by Ignition Method</b>						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE						
			WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory				
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>													
<b>Mixture Acceptance - ACP With RAP</b>													
<b>Gradation</b>													
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.		1/JMF & Each Calendar Year.					
Ignition method (Residual aggregate from AASHTO T 308)	Sampling Reducing Sieve analysis			T 168 R 47 T 30	2277	1/Sublot		1 per 10 Sublots					
<b>Asphalt Content</b>													
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.		1/JMF & Each Calendar Year.					
Ignition Method	Sampling Reducing Asphalt Content			T 168 R 47 T 308	2277	1/Sublot or Min. 1/day		1 per 10 Sublots					
RAP Percentage	Meter Method	TM 321 (1) TM 322			2277	1/Sublot or Minimum 1/Day		1 per 10 Sublots					
<b>(1) Required at start of production and if meters fail to meet specification</b>	RAP Moisture Cold Feed Moisture			T 329 T255/T265	2277								
<b>Meter Method is required for ACP even when acceptance is by Ignition Method</b>	Readings backed by Tank measure & Production Records Daily	TM 321 (1) TM 322			2401 & 2043	Daily Production							

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
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>							
<b>Mixture Acceptance - ACP With RAP</b>							
<b>Mix Design Verification Testing</b>							
Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity	TM 326		T 209	2050GV	1/Sublot & according to Section 00745.16 (b)-1-d	1 per 10 Sublots
					2050		
Determination of G <sub>mb</sub>	Bulk Specific Gravity			T 166	*5068		
					*2560		
Stripping Susceptibility	Tensile Strength Ratio			T 283	*5069		
*Cat-I complete & submit as required, See Section 745.16(b)					1/JMF See Section 00745.16 (b)-1-f		
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2050tsr		
Maximum Density Test G <sub>mm</sub>	Max. Specific Gravity MAMD	TM 305		T 209	2277	1/Sublot	
Performing Control Strip	Control Strip	TM 306			2050	1st Sublot Daily or Min. 1/Day	
Compaction	Nuclear Density			T 355	2084	Develop Rolling Pattern See Specs.	<sup>(D)</sup> 1 per 10 Sublots
					*5069		
					1793A	<sup>(D)</sup> Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2	
Asphalt Cement	Compliance			R 66	4000	1/Sublot See Section 4C	1 per 10 Sublots
<sup>(D)</sup> See T 355 Yellow sheet for Density Test Locations						Submit to Lab	1/5 QC Samples (Random)

A Sublot equals 1000 Tons

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		Materials Laboratory
		ODOT	WAQTC			AASHTO	Project Manager	
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>								
<b>Mixture Acceptance - ACP With RAP</b>								
<b>Mix Design Verification Testing</b>								
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)	<sup>(3)</sup> % Hydrated Lime					2277	1/Sublot	1 per 10 Sublots
						2277		
						2401 and 2043	Daily Production	
<sup>(2)</sup> Required at start of production and if meters fail to meet specification								
<sup>(3)</sup> See JMF for Details								
<b>Smoothness</b>								
Certification of Profiler Equipment								
Determining Profile Index								
Determining International Roughness Index							See Special Provisions	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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									
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent	T 2 R 76 T 27/T 11	T 176	1792	1792	1/Sublot & Start of Production	1 per 10 Sublots		
(2) Perform a minimum of 3 tests, QL's required	(1)(3) Wood Particles (3) Fracture (Method 2) (1)(3) Elongated Pieces TM 225	T 335	T 96	1792	1792	1/5 Sublots & Start of Production			
(3) Coarse Aggregate (See Section 02690.20)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208	T 104 T 113 T 21	4000	4000	See Section 4A and 02690	Submit to Central Lab		See Section 4A
(4) Fine Aggregate (See Section 02690.30)	(3) Dry Rodded Unit Weight (3)(4) Bulk Specific Gravity & Absorption	T 19	T 84 & T 85	1825 1825C	1825	Start of production and when changes in aggregate occurs			



**FIELD TESTED MATERIALS ACCEPTANCE GUIDE**

(Revised November 2016)

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 00754 - PLAIN CONCRETE PAVEMENT REPAIR SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT SECTION 00756 - PLAIN CONCRETE PAVEMENT SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR (CONTINUED)								
<b>Mixture</b>								A Sublot equals 1000 lane feet of slip formed pavement or 100 yd <sup>3</sup> 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						
Mixture	Sampling Air Content Slump Density (Unit Weight) Yield Concrete Temperature Water/Cement Ratio Batching Strength	TM 2	T 152 T 119 T 121 T 121 T 309 T 121	3573WS or 4000C	1/ sublot			1 per 10 Sublots
(S) 1 Set Represents a minimum of 3 Cylinders				4000C	(M) (S) 1 Set of Cylinders per sublot			1 per 10 Sublots
(M) Per Mix Design & Source		TM 769 TM 770			See Special Provisions			
<b>Smoothness</b> Certification of Profiler Equipment Determining Profile Index		TM 775			See Specs			
Thickness of Pavement	Sitting Measure							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			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
<b>SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS</b>									
<b>Placement Evaluation "Retroreflectivity"</b>									
<b>In-Place</b>  <i>Procedure evaluates Durable and High Performance Pavement Markings</i>	<i>Evaluation of Retroreflectivity Using Hand-Operated Instrument</i>	TM 777			4101 thru 4105	See Special Provisions and Test Procedure for Testing Frequency			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			Materials Laboratory		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance			
<b>SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS</b>											
<b>Aggregate Production</b> <sup>(1)</sup> QAE may waive after 5 sublots/shifts <sup>(2)</sup> Perform a minimum of 3 tests, QL's required <sup>(3)</sup> Coarse Aggregate (See Section 02690.20) <sup>(4)</sup> Fine Aggregate (See Section 02690.30)	Sampling Reducing <sup>(2)</sup> / <sup>(3)</sup> / <sup>(4)</sup> Sieve Analysis				T 2 R 76 T 27/T 11 T 27/T 11	1792	1/Sublot & Start of Production	Submit to Lab	1 per 10 Sublots	See Section 4(A)	
	<sup>(4)</sup> Fineness Modulus				T 176	1792					
	<sup>(1)</sup> / <sup>(3)</sup> Wood Particles	TM 225			T 104 T 96	4000	See Section 4A	Submit to Lab			
	<sup>(4)</sup> Sand Equivalent				T 113 T 21	4000					
	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208			T 19	1825 1825C	Start of production and when changes in aggregate occurs				
	<sup>(3)</sup> Dry Rodded Unit Weight				T 84 & T 85	1825					
	Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10									
	Drilling Slurry	Slurry material must meet the requirements of Section 00921.14 & 00921.43(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				(Revised November 2016)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS</b>									
Portland Cement Concrete									
	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength		TM 2	T 119 T 309 T 121 T 121 T 121 T 22/23	3573WS or 4000C  4000C	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	QA Testing		
(S) 1 Set Represents a minimum of 3 Cylinders									
(M) Per Mix Design & Source									
<b>TABLE 00512-1 Frequency of Quality Control Testing</b>									
<b>Minimum frequencies per Class of concrete based on daily production records.</b>									
<u>Production</u>					<u>Frequencies</u>				
0 to 100 yd <sup>3</sup> on a single day					1 Set each day				
<u>Quantity Over 100 yd<sup>3</sup></u> 100 to 600 yd <sup>3</sup> on a single day over 600 yd <sup>3</sup> on a single day					1 Set per each 100 yd <sup>3</sup> or portion thereof 1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>				