

## **FIELD TESTED MATERIALS SMALL QUANTITY GUIDELINE**

This Guideline defines a method for accepting relatively small quantities of field tested materials without following the normal Quality Control sampling and testing frequencies. These quantities are usually less than the subplot amounts shown in the Field Tested Materials Acceptance Guide.

The Contractor may request, in writing, that normal QC sampling and testing of materials be waived for the quantities listed in the table below. The Project Manager has the option to waive normal QC sampling and testing on the basis of one or more of the following conditions, if the Contractor submits the appropriate documentation with their request. Aggregate Product Compliance testing or documentation (Section 4A) shall be included with the submitted request. All asphalt cement products require a certificate of compliance.

- (1) If similar material from the same source has been accepted for use on ODOT projects within the past two years, and was found satisfactory under the Department's QA Program. Include the QC test data with the request.
- (2) Provide a Quality Compliance Certificate verifying that the material conforms to the contract requirements.
- (3) Provide other information indicating, by what method or workmanship that the Contractor will assure that all the contract requirements will be met.
- (4) For Section 00330 (Earthwork) provide a minimum of one Deflection test (TM 158) per area, performed by a ODOT Certified Density Technician (CDT). The Contractor's written request must identify the distinct work areas that small quantity acceptance is requested.
- (5) For section 00440, Small Quantity usage is not allowed for Structural Items.
- (6) For Section 00744 (MHMAC), acceptance shall be based on 744.17 or on QC data for the same Mix Design used on other projects within the past 24 months.
- (7) For Section 00745 (HMAC), acceptance shall be based on 00745.17 or on QC and QA data for the same Mix Design used on other projects within the past 12 months.
- (8) For Sections 00495, 00510, 0A596, 0B596 and 0C596 Small Quantity usage only applies to Quality Control Testing and sampling during Aggregate Production.

The Project Manager will report the basis of acceptance for the materials used in the project documents, including references to the appropriate test results and attachments.

*See next page for Small Quantity Table.*

### Small Quantity Table

<b>Section</b>	<b>Type of Material</b>	<b>Approximate Quantity</b>
00330	Earthwork (Embankment)	500 yd <sup>3</sup>
00330	Earthwork (Excavation)	500 yd <sup>2</sup>
00345 & 00346	Lime & Cement Treated Subgrade	2000 yd <sup>2</sup>
00390 & 00395	RipRap & Rock Gabions	100 yd <sup>3</sup>
00405	Ditch & Trench Excavation, Bedding and Backfill	50 yd <sup>3</sup>
00440	Commercial Grade Concrete (Non-Structural Items)	50 yd <sup>3</sup>
00495	Trench Resurfacing	500 Ton
00510	Structure Excavation and Backfill	500 Ton
0A596, 0B596 & 0C596	Retaining Walls	500 Ton
00641 & 00642	Aggregate Sub-base, Base & Shoulders	2000 Ton
00680	Stockpiled Aggregate	2000 yd <sup>3</sup>
00730	Asphalt Tack Coat	50 Ton
00735	Emulsified Asphalt Concrete Pavement (includes asphalt cement)	2500 Ton
00744	Minor Hot Mix Asphalt Concrete (HMAC-each Level) (includes asphalt cement)	2500 Ton
00745	Hot Mix Asphalt Concrete (HMAC-each Level) (includes asphalt cement).	2500 Ton

## 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. English and Metric unit designations are not direct conversions, use the appropriate designation identified by the Project contract documents. 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 standard 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.

**QUALIFIED PRODUCTS LIST (QPL)** – For some materials, this guide will refer to the QPL. This means that the material must be listed in ODOT’s Qualified Products List. In the QPL, there is a column labeled “List.” If there is an “A” in that column for the particular item you are looking up, no sampling or testing is required-it is approved for use. Simply document, in a Field Inspection Report, your recognition of the product and its existence on the Approved “A” list. If there is a “Q” in that column, the product is qualified and is suitable for a use in a specific category. Job Control testing or additional

certification may still be necessary. Consult the ODOT Non-Field Tested Materials Acceptance Guide or the project specifications for further information.

**Materials Not Listed in the (QPL)** – Materials that require compliance testing but are not identified in the QPL will need to be submitted to the ODOT Central Lab for testing. Please contact the ODOT central lab receiving area (1-503-986-3057) for information on sample sizes and shipping criteria.

## 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 October 2014)	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
<b>SECTION 00330 - EARTHWORK</b>									
Establishing Maximum Density (for Compaction)   Compaction	Density Curve			T 99	3468	1/Soil type		1/Project	
	Bulk Specific Gravity			T 85	3468				
	Family of Curves			T 272	3468FC				
	Deflection Testing	TM 158			1793S	1 test per 3 ft. in depth			
	Nuclear Gauge			T 310	1793S	See Table 00330-1 Below		10 % of Required QC	
	Coarse Particle Correction			T 224	1793S				
Deflection Testing	TM 158			1793S					
<b>TABLE 00330-1 Frequency of Quality Control Testing (English)</b>									
<b>Individual Areas</b>		<b>Under 3500 yd<sup>2</sup> or yd<sup>3</sup></b>				<b>Over 3500 yd<sup>2</sup> or yd<sup>3</sup></b>			
Existing Ground Surface		1 test per 1000 yd <sup>2</sup>				1 test per 3000 yd <sup>2</sup>			
Embankments		1 test per 500 yd <sup>3</sup>				1 test per 3000 yd <sup>3</sup>			
Excavations and Finished Subgrade		1 test per 1000 yd <sup>2</sup>				1 test per 3000 yd <sup>2</sup>			
Stone Embankment Material (See Sec. 330.16(a))  Compaction	Gradation						Visual See Section 00330.16(b)		
	Deflection Testing	TM 158			1793S	1 per Layer			
<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>									
Imported Topsoil (See Section 01040.14(b))	Compliance				4000	See Section 4C 1/Source & 1/Type of Soil	Submit to Lab		

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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				
							Project Manager	Region Quality Assurance	Materials Laboratory		
<b>SECTION 00331 - SUBGRADE STABILIZATION</b>											
Aggregate backfill	<i>Material must meet the requirements of Section 00331.10</i>						Visual				
Water	<i>Material must meet the requirements of Section 00340</i>										
Compaction	<i>Material must meet the requirements of Section 00331</i>						Visual				
<b>SECTION 00332 - SURFACING STABILIZATION</b>											
Aggregate Base	<i>Material must meet the requirements of Section 00332.10</i>						Visual				
Compaction	<i>Material must meet the requirements of Section 00332</i>						Visual				
<b>SECTION 00333 - AGGREGATE DITCH LINING</b>											
Aggregate	Sampling Reducing Sieve Analysis			T 2 T 248 T 27/T 11	1792	1/Project or 1/Source					

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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			
							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	Material must meet the requirements of Section 02010									
Water	Material must meet the requirements of Section 00340									
Establishing Maximum Density (for Compaction)	Density Curve Maximum Specific Gravity				3468	See Table 00344-1 Below for Testing Frequency		1/Project and 10% of Required QC		
Compaction	Deflection Testing	TM 158			1793S					
	Deflection Testing	TM 158								
	Nuclear Gauge Coarse Particle Correction			T 310 T 224	1793S					
<b>TABLE 00344-1 Frequency of Quality Control Testing</b>										
<b>Individual Areas</b>					<b>Under 3500 yd<sup>2</sup></b>			<b>Over 3500 yd<sup>2</sup></b>		
Finished Subgrade					1 test per 1000 yd <sup>2</sup>			1 test per 3000 yd <sup>2</sup>		

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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			
							Project Manager	Region Quality Assurance	Materials Laboratory	
<b>SECTION 00360 - Drainage Blankets</b>										
						A subplot equals 1000 Tons				
Granular Drainage Blanket	Sampling Reducing Sieve Analysis			T 2	1792	1/subplot minimum				
				T 248						
Sand Drainage Blanket	Sampling Reducing Sieve Analysis			T 27/T 11	1792	1/Source per Project				
				T 2						
Establishing Maximum Density (for Compaction)	Density Curve  Bulk Specific Gravity			T 248	3468	1/Source and Type			1/Project	
				T 27/T 11						
Compaction	Deflection Testing	TM 158		T 99	1793S	1 test per 3 ft. in depth				
				T 85						
	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158			T 310	1793S	See Table 00360-1 Below			10 % of Required QC
					T 224					

  

TABLE 00360-1 Frequency of Quality Control Testing		
Individual Areas	Under 3500 yd <sup>2</sup>	Over 3500 yd <sup>2</sup>
Existing Ground Surface	1 test per 1000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>
Finished Surfaces	1 test per 1000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>

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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		
							Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00390 - RIPRAP PROTECTION</b>									
Fill Material & Riprap	Gradation See 00390.11(c-1)	TM 208		T 104 T 85		See Section 4(A)	Submit to Lab		See Section 4(A)
					4000				
					1825				
Filter Blanket	Gradation See 00390.13						Visual		
Grouted Riprap Sand	Sampling Reducing Sieve Analysis			T 2 T 248 T 27/T 11		1/Project			
					1792				
Portland Cement	Soundness Lightweight Pieces			T 104 T 113	4000	See Section 4(A)	Submit to Lab		See Section 4(A)
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	Independent Assurance/Verification				
							Project Manager	Region Quality Assurance	Materials Laboratory		
<b>SECTION 00396 -SHOTCRETE SLOPE STABILIZATION</b>						<i>A Sublot equals 1000 Tons</i>					
Aggregate Production and Mixture											
<sup>(1)</sup> QAE may waive after 5 sublots/shifts	Sampling	TM 225		T 2	1792	1/Sublot & Start of Production	10 % of Required QC				
	Reducing			T 248							
	<sup>(2)(3)</sup> Sieve Analysis			T 27/T 11							
<sup>(2)</sup> Coarse Aggregate (See Section 02690.20)	<sup>(3)</sup> Fineness Modulus			T 27/T 11							
	<sup>(1)(2)</sup> Wood Particles										
<sup>(3)</sup> Fine Aggregate (See Section 02690.30)	<sup>(3)</sup> Sand Equivalent			T 176							
	Soundness	TM 208		T 104	4000	See Section 4A	Submit to Central Lab		See Section 4(A)		
	Abrasion			T 96							
Degradation			T 113								
	Lightweight Pieces			T 21							
	Organics										
	<sup>(2)</sup> Dry Rodded Unit Weight			T 19	1825	Start of production and when changes in aggregate occurs					
					1825C						
	<sup>(2)(3)</sup> Bulk Specific Gravity & Absorption			T 84 & T 85	1825						
Portland Cement Admixtures	<i>Material must meet the requirements of Section 02010</i>										
	<i>Material must meet the requirements of Section 02040</i>										
Mixing Water	<i>Material must meet the requirements of Section 02020</i>										
Production Testing (See Section 00396.14)	<sup>(S)</sup> Test Panel					Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.14(a)2					
<sup>(S)</sup> 3 Cores minimum per Panel											
Compression Test Cores	Strength			T 22	4000C	1/Set Cores per Test panel	Submit to Central Lab				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL</b>									
<b>TRENCH FOUNDATION - Excavation below grade only</b>									
Selected general backfill	<i>Material must meet the requirements of Section 00330.13</i>						<i>Visual</i>		
Selected granular backfill	<i>Material must meet the requirements of Section 00330.14</i>						<i>Visual</i>		
Selected stone backfill	<i>Material must meet the requirements of Section 00330.15</i>						<i>Visual</i>		
Other approved material	<i>Material must meet the requirements of Section 00405.11</i>						<i>Visual</i>		
Establishing Maximum Density	Density Curve			T 99	3468	1/Soil Type or Aggregate Gradation			
	Bulk Specific Gravity			T 85	3468				
	Family of Curves			T 272	3468FC				
Compaction	Nuclear Gauge			T 310	1793S	1test per 300 ft. of Trench			
	Coarse Particle Correction			T 224					
<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	Independent Assurance/Verification		
							Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>									
<b>Bedding</b>									
3/8" - 0 PCC fine aggregate (See Section 02690.30(h))	<i>Sampling Reducing Sieve Analysis</i>			<i>T 2 T 248 T 27/T 11</i>	<i>1792</i>	<i>1/Source or Aggregate Gradation</i>			
Commercial 3/4" - 0 Aggregate							<i>Visual</i>		
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	<i>Sampling Reducing Sieve Analysis</i>			<i>T 2 T 248 T 27/T 11</i>	<i>1792</i>	<i>1/Source or Aggregate Gradation</i>			
Reasonably well graded sand, maximum 3/8" to dust							<i>Visual</i>		
Commercial available 3/8"-0 or No.10 - 0 sand							<i>Visual</i>		
Continuous cradle of Commercial Grade Concrete	<i>Material must meet the requirements of Section 00440</i>						<i>Visual</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		
							Project Manager	Region Quality Assurance	Materials Laboratory
<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)	<i>Sampling Reducing Sieve Analysis</i>			T 2 T 248 T 27		1792	1/Source or Gradation		
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate							Visual		
Establishing Maximum Density	<i>Density Curve</i>			T 99	3468		1/Source or Aggregate Gradation		
	<i>Bulk Specific Gravity</i>			T 85					
	<i>Coarse Particle Correction</i>			T 224	3468				
Compaction	<i>Nuclear Gauge</i>			T 310	1793B		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>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>									
<b>Trench Backfill</b>									
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	Density Curve			<sup>(1)</sup> T 99	3468	1/Soil Type or Aggregate Gradation			
<sup>(1)</sup> Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity			T 85	3468				
	Family of Curves			T 272	3468FC				
Compaction	Nuclear Gauge Coarse Particle Correction			T 310 T 224	1793S or 1793B	<sup>(c)</sup> 1 test per 300 ft. of Trench and every 1.5 ft. of Fill			
<sup>(c)</sup> Density testing is based on cumulative lineal feet of pipe placement.	<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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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						
<b>SECTION 00430 - SUBSURFACE DRAINS</b>						A Sublot equals 1000 Tons									
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis	TM 208		T 2 T 248 T 27	1792	1/Sublot (Minimum 1/ Project)									
					4000						See Section 4A	Submit To Lab	See Section 4A		
					See section 405 for compaction requirements										
Special Filter Material See Section 00430.46(a)	Compaction														
<b>SECTION 00440 - COMMERCIAL GRADE CONCRETE</b>															
Mixture	Sampling Air Content Density (Unit Weight) Yield Slump Concrete Temperature		TM 2	T 152 T 121 T121 T 119 T 309	3573WS or 4000 C	(S) 1 per each set of cylinders									
											Material must meet the requirements of Section 02030				
											Material must meet the requirements of Section 02040				
											Material must meet the requirements of Section 02010				
Modifiers Admixtures Portland Cement															
Structural Items	Strength			T 22 & T 23	4000C	(M)(S) 1 Set / Day Minimum									
					4000C	(M) (S) 1 Set/20 yd <sup>3</sup> Cumulative (Maximum 1 Set/day)									
Except Visual Acceptance Items (See section 00440.14(a))	Strength			T 22 & T 23											
(S) 1 Set Represents a minimum of 3 Cylinders															
(M) Per Mix Design & Source															

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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification		
							Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)</b>									
CLSM Mixture	Mix Proportions Trial Batch Strength			T 22 & T 23	4000C	1/Project or Source			
Modifiers	Material must meet the requirements of Section 02030								
Admixtures	Material must meet the requirements of Section 02040								
Portland Cement	Material must meet the requirements of Section 02010								
<b>SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405</b>									
<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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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification		
							Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00450 - STRUCTURAL PLATE SHAPED STRUCTURES</b>									
Commercial Grade Concrete in appurtenances	<i>Material must meet the requirements of Section 00440</i>								
<b>Trench Work</b>									
Excavation and Backfill	<i>Operations must meet the requirements of Section 00510</i>								
<b>Trenches in Unstable Areas</b>									
Granular Structural Backfill	<i>Material must meet the requirements of Section 00510</i>								
Establishing Maximum Density	Density Curve			<sup>(1)</sup> T 99					
<sup>(1)</sup> Method "A"	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85	3468 B	1/Aggregate Gradation and Source			
Compaction	Nuclear Gauge			T 310	1793 B	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>								
<b>SECTION 00459 - CAST IN PLACE CONCRETE</b>									
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-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification			
							Project Manager	Region Quality Assurance	Materials Laboratory	
<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 HMAC Mixture Level 2, (1/2")	<i>Material must meet the requirements of Section 00744</i>									

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		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification		
							Project Manager	Region Quality Assurance	Materials Laboratory
<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	Density Curve	TM 223		( <sup>1</sup> ) T 99	3468 B	1/Aggregate Gradation and Source			
( <sup>1</sup> ) Method "A"	Bulk Specific Gravity Coarse Particle Correction			T 85					
Compaction	Nuclear Gauge			T 310	1793B	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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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
<b>SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL</b>									
Soils, Soil/Aggregate Mixtures and Graded Aggregates						A Sublot equals 1,000 Tons			
<b>Granular Structure Backfill</b> (See Section 02630.10)  <i>(1) Perform a minimum of 3 tests QL's required</i>	<i>Sampling Reducing (1) Sieve Analysis Fracture (Method 1) Sand Equivalent</i>				T 2	1792	1/Sublot (Minimum 1/Project)		
					T 248				
					T 27				
					T 335				
Product Compliance	<i>Abrasion Degradation</i>	TM 208			T 96	4000	See Section 4C 1/Source	Submit to Lab	Minimum 1/Project or 1/Source
Establishing Maximum Density	<i>Density Curve  Bulk Specific Gravity</i>				(2) T 99	3468	1/Soil type or Aggregate Gradation		
(2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	<i>Coarse Particle Correction</i>				T 224	3468			
Compaction	<i>Nuclear Gauge</i>				T 310	1793B	1/100 yd <sup>3</sup> minimum 1/project		
<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 October 2014)	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
<b>SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)</b>									
Soils, Soil/Aggregate Mixtures and Graded Aggregates						A Sublot equals 1,000 Tons			
<b>Granular Wall Backfill</b> (See Section 02630.11)  <sup>(1)</sup> Perform a minimum of 3 tests QL's required  Product Compliance  <sup>(2)</sup> Compaction <b>Note: Compaction must meet the requirements of section 00330.43c</b>	<i>Sampling Reducing Fracture (Method 2)</i>  <i>Abrasion Degradation</i>  <sup>(2)</sup> Deflection Testing	TM 208		T 2 T 248 T 27 T 335  T 96	1792	1/Sublot (Minimum 1/Project)	Submit to Lab		Minimum 1/Project or 1/Source
					4000	See Section 4C 1/Source			
					1793B	1/Sublot (Minimum 1/Project)			
					<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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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	
<b>SECTION 00512 - DRILLED SHAFTS</b>										
Aggregate Production						A Sublot equals 1,000 Tons				
(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 Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent	TM 225		T 2 T 248 T 27/T 11 T 27/T 11	1792	1/Sublot & Start of Production		10 % of Required QC		
				T 176	1792					
		Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96  T 113 T 21	4000  4000	See Section 4A	Submit to Lab		See Section 4(A)
		(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			
	Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10								
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									

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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		
							Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00512 - DRILLED SHAFTS (CONTINUED)</b>									
Portland Cement Concrete	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio  Strength		TM 2	T 119 T 309 T 121 T121 T 121  T22/23	3573WS or 4000C  4000C	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	<b>QA Testing</b>  <u>Projects under 100 yd<sup>3</sup> all classes</u> 1/Project representing all classes of PCC  <u>Projects over 100 yd<sup>3</sup> all classes</u> 1/500 yd <sup>3</sup> per class minimum 1/class		

<sup>(S)</sup> 1 Set Represents a minimum of 3 Cylinders

<sup>(M)</sup> Per Mix Design & Source

**TABLE 00512-1 Frequency of Quality Control Testing**

<i>Minimum frequencies per Class of concrete based on daily production records.</i>	
<u>Production</u>	<u>Frequencies</u>
0 to 100 yd <sup>3</sup> on a single day	1 Set each day
<b><u>Quantity Over 100 yd<sup>3</sup></u></b>	
100 to 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof
over 600 yd <sup>3</sup> on a single day	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 October 2014)	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	
<b>SECTION 00540 - STRUCTURAL CONCRETE</b>										
Aggregate Production						A Sublot equals 1,000 Tons				
<p>(1) QAE may waive after 5 sublots/shifts</p> <p>(2) Perform a minimum of 3 tests, QL's required</p> <p>(3) Coarse Aggregate (See Section 02690.20)</p> <p>(4) Fine Aggregate (See Section 02690.30)</p>	<p>Sampling</p> <p>Reducing</p> <p>(2)(3)(4) Sieve Analysis</p> <p>(4) Fineness Modulus</p> <p>(1)(3) Wood Particles</p> <p>(4) Sand Equivalent</p>	TM 225			T 2 T 248 T 27/T 11 T 27/T 11	1792	1/Sublot & Start of Production	10 % of Required QC		
					T 176	1792				
					T 104 T 96	4000			See Section 4A	Submit To Lab
		<p>Soundness</p> <p>Abrasion</p> <p>Degradation</p> <p>Lightweight Pieces</p> <p>Organics</p>	TM 208			T 113 T 21	4000			
		(3) Dry Rodded Unit Weight					T 19	1825 1825C	Start of production and when changes in aggregate occurs	
		(3)(4) Bulk Specific Gravity & Absorption				T 84 & T 85	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 October 2014)		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
<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 T121 T 121  T22/23	3573WS	<sup>(M)</sup> <sup>(S)</sup> Test at minimum frequencies according to table 00540-1. Review specs.	<b>QA Testing</b>		
					or 4000C		<u>Projects under 100 yd<sup>3</sup> all classes</u> 1/Project representing all classes of PCC  <u>Projects over 100 yd<sup>3</sup> all classes</u> 1/500 yd <sup>3</sup> per class minimum 1/class		
					4000C				

<sup>(S)</sup> 1 Set Represents a minimum of 3 Cylinders

<sup>(M)</sup> Per Mix Design & Source

**TABLE 00540-1 Frequency of Quality Control Testing**

<i>Minimum frequencies per Class of concrete based on daily production records.</i>	
<u>Production</u>	<u>Frequencies</u>
0 to 100 yd <sup>3</sup> on a single day	1 Set each day
<b><u>Quantity Over 100 yd<sup>3</sup></u></b>	
100 to 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof
over 600 yd <sup>3</sup> on a single day	1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>

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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	
<b>SECTION 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY</b>										
Aggregate Production	Sampling Reducing Sieve Analysis			T 2 T 248 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									

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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		
							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 or a minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 500 Tons.)			
<p><sup>(1)</sup> QAE may waive after 5 sublots/shifts</p> <p><sup>(2)</sup> Perform a minimum of 3 tests, QL's required</p> <p><sup>(3)</sup> Coarse Aggregate (See Section 02690.20 &amp; 00559.10)</p> <p><sup>(4)</sup> Fine Aggregate (See Section 02690.30 &amp; 00559.10)</p>	Sampling			T 2		10 % of Required QC	Submit to Central Lab	See Section 4(A)	
	Reducing			T 248					
	<sup>(2)(3)(4)</sup> Sieve Analysis			T 27/T 11	1792				1/Sublot & Start of Production
	<sup>(4)</sup> Fineness Modulus			T 27/T 11					
	<sup>(4)</sup> Sand Equivalent			T 176	1792				
	<sup>(1)(3)</sup> Elongated Pieces	TM 229							
	<sup>(1)(3)</sup> Wood Particles	TM 225			1792				1/5 Sublots & Start of Production
	Abrasion			T 96	4000				
	Degradation	TM 208		T 104					
	Soundness			T 113					
Lightweight Pieces			T 21	4000					
Organics									
<sup>(3)</sup> Dry Rodded Unit Weight			T 19	1825	Start of production and when changes in aggregate occurs				
				1825C					
<sup>(3)(4)</sup> Bulk Specific Gravity & Absorption			T 84 & T 85	1825					
Portland Cement	Materials must meet the requirements of Section 02001.10								
Modifiers									
Admixtures									
Mixing Water	Material must meet the requirements of Section 02020								

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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		
							Project Manager	Region Quality Assurance	Materials Laboratory
<b>SECTION 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS (CONTINUED)</b>									
<b>SFC AND LMC</b>						A subplot equals 1 set of tests per 50 yd <sup>3</sup>			
	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield W/C Ratio		TM 2	T 152 T 119 T 309 T 121 T121 T 121	3573WS or 4000 C	1 / Sublot or Minimum 1 per Shift		10 % of Required QC	
Latex Modified Concrete	Fine Aggregate Moisture			T 255/T 265	1792	See Section 00559.10			
	Mixer Calibration					See Section 00559.22			
<sup>(M)</sup> Per Mix Design & Source									
SFC and LMC	Strength			T 22 & T 23	4000C	<sup>(M)</sup> <sup>(S)</sup> 1 Set Cylinders per 50yd <sup>3</sup> Minimum 1 set/shift		10 % of Required QC	
<sup>(S)</sup> 1 Set Represents a minimum of 3 Cylinders									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<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		T96	4000	See Section 4A	Submit to Lab		See Section 4A
						A Sublot equals 1,000 Tons Minimum 1/Project			
	Sieve Analysis Sand Equivalent Fracture (Method 1)			T 27 T 176 T 335	1792 1792	1/Sublot 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			T 104	4000	See Section 4C & 02690	Submit To Lab		See Section 4C
	Abrasion Degradation	TM 208		T 96					
	Lightweight Pieces			T 113					
	Organics			T 21					
	pH Resistivity			T 289 T 288	4000				
					A Sublot equals 1,000 Tons				
Modular Block Core and Drainage Backfill  (1) QAE may waive after 5 sublots/shifts  (2) Perform a minimum of 3 tests, QL's required  Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Sampling			T 2		1/Sublot			
	Reducing (2) Sieve Analysis			T 248 T 27/T 11	1792				
	(1) Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		T 335	1792				
	Abrasion Degradation	TM 208		T 96	4000	See Section 4C	Submit To Lab		See Section 4C
	Sieve Analysis			T27	4000	1/Sublot			

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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			
							Project Manager	Region Quality Assurance	Materials Laboratory	
<b>SECTION 0A596 - MECHANICALLY STABILIZED EARTH 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	TM 208		T 104 T 85	4000	See Section 4C	Submit to Lab		See Section 4C	
					1825					
	Gradation					Visual				

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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			
							Project Manager	Region Quality Assurance	Materials Laboratory	
<b>SECTION 0A596 - MSE RETAINING WALLS</b>										
<b>Aggregate Production</b>					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project					
MSE Granular Wall Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index pH Resistivity Organic Content	TM 208		T96  T 27/11 T 90 T 289 T 288 T 267	4000      4000	See Section 4C	Submit to Central Lab		See Section 4C	
					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  Fracture (Method 1)			T 2 T 248 T 27  T 335	  1792  1792	1/Sublot   1/5 Sublots				
<b>Placement</b>										
Establishing Maximum Density  ( <sup>2</sup> ) Method A	Density Curve  Bulk Specific Gravity  Coarse Particle Correction	TM 223		( <sup>2</sup> ) T 99  T 85	3468   3468	1/Aggregate Gradation/Per Source				
Compaction	Nuclear Gauge Deflection Testing	TM 158		T 310	1793B	1/ 100 yd3 (Minimum 1/day)				
<p align="center"><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 October 2014)	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
<b>SECTION 0B596 - PREFABRICATED MODULAR RETAINING WALLS</b>									
<b>Aggregate Production</b>									
<i>Gravel Leveling Pads Backfill (See Section 02630.10)</i>	<i>Abrasion Degradation</i>	<i>TM 208</i>		<i>T96</i>	<i>4000</i>	<i>See Section 4A</i>	<i>Submit to Lab</i>		<i>See Section 4A</i>
						A Sublot equals 1,000 Tons Minimum 1/Project			
	<i>Sieve Analysis Sand Equivalent</i>			<i>T 27 T 176</i>	<i>1792</i>	<i>1/Sublot</i>			
	<i>Fracture (Method 1)</i>			<i>T 335</i>	<i>1792</i>	<i>1/5 Sublots</i>			
					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
<i>Modular Block Core and Drainage Backfill (Product Compliance)</i>	<i>Soundness</i>			<i>T 104</i>	<i>4000</i>	<i>See Section 4C &amp; 02690</i>	<i>Submit To Lab</i>		<i>See Section 4C</i>
	<i>Abrasion Degradation</i>	<i>TM 208</i>		<i>T 96</i>					
	<i>Lightweight Pieces</i>			<i>T 113</i>					
	<i>Organics</i>			<i>T 21</i>					
					A Sublot equals 1,000 Tons				
<i>Modular Block Core and Drainage Backfill  (1) QAE may waive after 5 sublots/shifts  (2) Perform a minimum of 3 tests, QL's required  Pipe Drain Backfill (Product Compliance) (See Section 00430.11)</i>	<i>Sampling</i>			<i>T 2</i>		<i>1/Sublot</i>			
	<i>Reducing (2) Sieve Analysis</i>	<i>TM 225</i>		<i>T 248 T 27/T 11</i>	<i>1792</i>				
	<i>(1) Wood Particles</i>			<i>T 335</i>	<i>1792</i>				
	<i>Fracture (Method 2) Elongated Pieces</i>	<i>TM 229</i>							
<i>Abrasion Degradation</i>	<i>TM 208</i>			<i>T 96</i>	<i>4000</i>	<i>See Section 4C</i>	<i>Submit To Lab</i>		<i>See Section 4C</i>
<i>Sieve Analysis</i>				<i>T27</i>	<i>4000</i>	<i>1/Sublot</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			
							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					
<i>Gabion Basket Fill (Product Compliance)</i>	<i>Degradation Soundness Apparent Specific Gravity &amp; Absorption</i>	TM 208		T 104 T 85	4000	See Section 4C	Submit to Lab		See Section 4C	
					1825					
	<i>Gradation</i>						Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<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				
Granular Structure Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation	TM 208		T96	4000	See Section 4C	Submit to Central Lab		See Section 4C
	Sieve Analysis			T 27/11	4000				
	Plasticity Index			T 90					
					A Sublot Equals 2,000 Tons				
Granular Structure Backfill  ( <sup>1</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Reducing			T 2		1/Sublot			
	( <sup>1</sup> ) Sieve Analysis			T 248	1792				
	Fracture (Method 1)			T 27		1792	1/5 Sublots		
<b>Placement</b>									
Establishing Maximum Density  ( <sup>2</sup> ) Method A	Density Curve			( <sup>2</sup> ) T 99	3468	1/Aggregate Gradation/Per Source			
	Bulk Specific Gravity			T 85					
Compaction	Coarse Particle Correction	TM 223			3468	1/ 100 yd3 (Minimum 1/day)			
	Nuclear Gauge Deflection Testing	TM 158		T 310	1793B				
<p align="center"><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 October 2014)	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
<b>SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS</b>									
<b>Aggregate Production</b>									
<i>Pipe Drain Backfill (Product Compliance) (See Section 00430.11)</i>	<i>Abrasion Degradation</i>	<i>TM 208</i>		<i>T 96</i>	<i>4000</i>	<i>See Section 4C</i>	<i>Submit To Lab</i>		<i>See Section 4C</i>
	<i>Sieve Analysis</i>			<i>T27</i>	<i>4000</i>	<i>1/Sublot</i>			
Granular Structure Backfill					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
<i>Granular Structure Backfill (Product Compliance) (Also reference 02630.10)</i>	<i>Abrasion Degradation</i>	<i>TM 208</i>		<i>T96</i>	<i>4000</i>	<i>See Section 4C</i>	<i>Submit to Central Lab</i>		<i>See Section 4C</i>
	<i>Sieve Analysis Plasticity Index</i>			<i>T 27/11 T 90</i>	<i>4000</i>				
					A Sublot Equals 2,000 Tons				
<i>Granular Structure Backfill  (<sup>1</sup>) Perform a minimum of 3 tests, QL's required</i>	<i>Sampling Reducing</i>			<i>T 2 T 248</i>		<i>1/Sublot</i>			
	<i>(<sup>1</sup>) Sieve Analysis</i>			<i>T 27</i>	<i>1792</i>				
	<i>Fracture (Method 1)</i>			<i>T 335</i>	<i>1792</i>	<i>1/5 Sublots</i>			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<b>SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS</b>									
<b>Placement</b>									
Granular Structure Backfill									
Establishing Maximum Density	Density Curve			( <sup>1</sup> ) T 99	3468	1/Aggregate Gradation/Per Source			
( <sup>1</sup> ) Method A	Bulk Specific Gravity			T 85					
	Coarse Particle Correction	TM 223			3468				
Compaction	Nuclear Gauge Deflection Testing	TM 158		T 310	1793B	1/ 100 yd3 (Minimum 1/day)			
<p align="center"><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 October 2014)		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	
<b>SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE</b>										
<b>Aggregate Subbase</b> Grading (See 00635.10)	Abrasion   Sampling Reducing Sieve Analysis Sand Equivalent			T 96   T 2 T 248 T 27 T 176	<i>A Sublot equals 1000 Tons</i>					
					4000	1/Source	Submit To Central Lab		See Section 4(A)	
					1792	1/Sublot & Start of Production				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<b>SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS</b>									
<b>Aggregate Production</b>	<i>Abrasion</i>			T 96	4000	See Sec. 4A	Submit To Central Lab		See Section 4(A)
<b>Aggregate Subbase</b>	<i>Grading</i>			T 2		1/Project or 1/Source	Visual		
<i>(See 00641.10(b))</i>	<i>Reducing Sieve Analysis Sand Equivalent</i>			T 248 T 27 T 176	1792				
<b>Aggregate Base and Shoulders</b>	<i>Abrasion Degradation</i>	TM 208		T96	4000	See Section 4A	Submit to Lab		See Section 4A
<i>Grading</i>	<i>Aggregate Base (See 02630)</i>				T 2		A Sublot equals 2000 Tons		
<i>Aggregate Shoulder (See 02640)</i>	<i>Open Graded Aggregate Base (See 02630.11)</i>			T 248 T 27 T 176	1792	1/Sublot & Start of Production	10 % of Required QC		
<i>(1) Perform at least 3 tests</i>	<i>(2) Sand Equivalent</i>			T 176					
<i>(1) Perform at least 3 tests</i>	<i>(2) May be waived by QAE</i>			T 335	1792	1/5 Sublots			
<b>Placement</b>									
<b>Aggregate Base</b>						A Sublot equals 2000 Tons			
<i>Plant Mix Applications Only</i>	<i>Aggregate (Mixture)</i>			T 2		1/Sublot or minimum 1/Day	10 % of Required QC		
	<i>Reducing Moisture</i>			T 248 T 255 & T 265	1792				
<b>Establishing Maximum Density &amp; Optimum Moisture (Mix Design)</b>	<i>Density Curve</i>	TM 223		<sup>(3)</sup> T 99	3468 B	Each Size per Source	1/Project		
<i>(3) Method A</i>	<i>Coarse Particle Correction</i>				T 85			3468 B	
<b>Compaction</b>	<i>Bulk Specific Gravity</i>								
	<i>Deflection Testing</i>	TM 158			1793B	1 per Sublot			
<sup>(D)</sup> <b>(Individual tests must meet Specification)</b>	<i>Nuclear Gauge</i>			T310	1793B	<sup>(D)</sup> 5 Tests Per Sublot	10 % of Required QC		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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	
<b>SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)</b>										
Placement										
Aggregate Subbase										
Compaction	<i>Deflection Testing</i>	<i>TM 158</i>			<i>1793 B</i>	<i>1 per Layer</i>	<i>Visual</i>			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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				
<b>SECTION 00680 - STOCKPILED AGGREGATES</b>													
<b>Aggregate Base and Shoulders</b> (See Section 00641)  (1) Perform at least 3 tests, QL's required  (2) May be waived by QAE	Abrasion Degradation  Sampling Reducing (1) Sieve Analysis (2) Sand Equivalent  Fracture (Method 1)	TM 208		T 96	4000	See Section 4A	Submit to Lab		See Section 4A				
					A Sublot equals 2,000 Tons								
					1792	1/Sublot & Start of Production		10 % of Required QC					
					1792								
					1792	1/5 Sublots							
<b>Aggregate (Sanding Aggregate)</b>  (3) May be waived by QAE	Sampling Reducing Sieve Analysis (3) Cleanness Value  Abrasion Degradation Lightweight Pieces  Fracture (Method 1) Elongated Pieces Wood Particles	TM 227		T 2 T 248 T 27	1792	1/Sublot & Start of Production		10 % of Required QC					
					1792								
					1792								
		TM 208		T 96 T 113	4000	See Section 4A	Submit to Lab		See Section 4A				
					4000								
		TM 229 TM 225		T 335	1792	1/5 Sublots & Start of Production		10 % of Required QC					
					1792								
A Sublot equals 1000 Tons													

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2014)		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
<b>SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)</b>									
<b>Emulsified AC Aggregate</b>									
Aggregate Production					<i>A subplot equals 500 Tons or a minimum 1 per shift, whichever results in the greatest sampling frequency</i>				
<i>(See Sections 00705, 00706, 00710, 00711, 00712 and 00715)</i>									
<i>(1) QAE may waive after 5 sublots/shifts</i>									
Abrasion Degradation Soundness Lightweight Pieces		TM 208		T 96	4000	See Section 4A	Submit to Lab		See Section 4A
				T 104					
				T 113	4000				
Sampling Reducing				T 2		1/Sublot & Start of Production	10 % of Required QC		
<i>(5) Fracture (Method 1)</i>				T 248					
<i>(1) Wood Particles</i>		TM 225		T 335	1792				
<i>(1)(4) Elongated Pieces</i>		TM 229							
<i>(2) Sieve Analysis</i>				T27/T 11					
<i>(3) Cleanness Value</i>		TM 227			1792				
<i>(3) May be waived by QAE</i>									
Dry Rodded Unit Weight				T 19	1825	Start of production and when changes in aggregate occurs			
					1825C				
<i>(4) Not required for Dry Key Material</i>									
<i>(5) 1/5 Sublots &amp; Start of Production</i>									
<b>Aggregate (Other)</b>					Use sampling and testing frequencies required for proposed end product use				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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	
<b>SECTION 00705 - EMULSIFIED ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT</b>										
<b>Aggregate Cover Material</b>					A subplot equals 1000 Tons, minimum 1 per shift					
Aggregate Production	Sampling Reducing Sieve Analysis			T 2 T 248 T 27	1792	1/Sublot & Start of Production		10 % of Required QC		
<b>Asphalt Prime and Fog Coat</b>										
Asphalt Cement (Emulsion)	Compliance			T 40	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>					A subplot equals 500 Tons or a minimum 1 per shift whichever results in the greatest sampling frequency					
( <sup>1</sup> ) Perform at least 3 tests, QL's required	Sampling Reducing ( <sup>1</sup> ) Sieve Analysis			T 2 T 248 T 27/T 11	1792	1/Sublot & Start of Production				
<b>Emulsified Asphalt Cement</b> 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 October 2014)	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						
<b>SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT</b>															
<b>Aggregate Production</b>						<i>A subplot equals 500 Tons or a minimum 1 per shift, whichever results in the greatest sampling frequency</i>									
<p><sup>(1)</sup> QAE may waive after 5 sublots/shifts</p> <p><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</p> <p><sup>(3)</sup> May be waived by QAE</p> <p><sup>(4)</sup> Not required for Dry Key Material</p> <p><sup>(5)</sup> 1/5 Sublots &amp; Start of Production</p>	<p>Abrasion Degradation Soundness Lightweight Pieces</p> <p>TM 208</p> <p>Sampling Reducing</p> <p><sup>(5)</sup> Fracture (Method 1)</p> <p><sup>(1)</sup> Wood Particles TM 225</p> <p><sup>(1)(4)</sup> Elongated Pieces TM 229</p> <p><sup>(2)</sup> Sieve Analysis</p> <p><sup>(3)</sup> Cleanness Value TM 227</p> <p>Dry Rodded Unit Weight</p> <p>Compliance</p>				T 96	4000	See Section 4A	Submit to Central Lab		See Section 4A					
					T 104										
					T 113	4000									
										T 2		1/Sublot & Start of Production	10 % of Required QC		
										T 248					
										T 335	1792				
										T27/T 11					
											1792				
										T 19	1825	Start of production and when changes in aggregate occurs			
											1825C				
Asphalt Cement (Emulsion)					T 40	4000	1/50 Tons Submit All	Submit to Lab		1/5 QC Samples (Random)					
<b>Preproduced Aggregate</b>															
<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"> <li>1. Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production.</li> <li>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"> <li>a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".</li> <li>b. One Per subplot means "One Set of Tests Per 500 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 October 2014)	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	
<b>SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT</b>										
<b>Aggregate Production</b>						<i>A subplot equals 500 Tons or a minimum 1 per shift whichever results in the greatest sampling frequency</i>				
<p><sup>(1)</sup> QAE may waive after 5 sublots/shifts</p> <p><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</p> <p><sup>(3)</sup> May be waived by QAE</p> <p><sup>(4)</sup> Not required for Dry Key Material</p> <p><sup>(5)</sup> 1/5 Sublots &amp; Start of Production</p>	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000  4000	See Section 4A	Submit to Central Lab		See Section 4A	
	Sampling Reducing			T 2 T 248 T 335		1/5 Sublot & Start of Production		10 % of Required QC		
	<sup>(5)</sup> Fracture (Method 1)				1792					
	<sup>(1)</sup> Wood Particles <sup>(1)(4)</sup> Elongated Pieces	TM 225 TM 229		T27/T 11	1792					
	<sup>(2)</sup> Sieve Analysis <sup>(3)</sup> Cleanness Value	TM 227								
	<sup>(3)</sup> May be waived by QAE	Dry Rodded Unit Weight			T 19	1825 1825C	Start of production and when changes in aggregate occurs			
	<sup>(4)</sup> Not required for Dry Key Material									
	<sup>(5)</sup> 1/5 Sublots & Start of Production									
	Asphalt Cement	Compliance			T 40	4000	1/50 Tons Submit All	Submit to Lab		1/5 QC Samples (Random)
	<b>Preproduced Aggregate</b>									
<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"> <li>Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production.</li> <li>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: <ol style="list-style-type: none"> <li>One Per 5 sublots means "One Set of Tests Per 2500 Tons".</li> <li>One Per subplot 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**

(Revised October 2014)

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 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT (CONTINUED)**

**Mixture Acceptance**

*A subplot equals 500 Tons or a minimum 1 per shift, whichever results in the greatest sampling frequency*

<i>Meter Method</i>	<i>Readings backed by Tank Measure &amp; Production Records Daily</i>	<i>TM 321 (1) TM 322</i>									
<b>(1) Required at start of production and if meters fail to meet specification</b>	<i>Cold Feed Moisture</i>		T 255/265	2277	1/Sublot or Min. 1/Day						
				2043 and 2401	Daily Production	1/Project (Contact QAC for assistance)					
	<i>Plant Discharge Moisture</i>			<i>HMAC Moisture</i>	T 329	2277	1/Sublot or Min. 1/Day				
						2277	1/Sublot				
<i>Asphalt Cement</i>	<i>Compliance</i>		T 40	4000	1/50 Tons Submit All	Submit to Lab		1/5 QC Samples (Random)			



FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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	
<b>SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT</b>										
<b>Aggregate Production</b>						<i>A subplot equals 500 Tons or a minimum 1 per shift, whichever results in the greatest sampling frequency</i>				
<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>	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Central Lab		See Section 4A	
	Soundness			T 104						
	Lightweight Pieces			T 113	4000					
		(5) Fracture (Method 1)			T 335	1792	1/Sublot & Start of Production	10 % of Required QC		
		(1) Wood Particles	TM 225							
		(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	Start of production and when changes in aggregate occurs			
	Asphalt Cement (Emulsion)	Compliance		T 40	4000	1/50 Tons Submit All	Submit to Lab		1/5 QC Samples (Random)	
<b>Preproduced Aggregate</b>										
<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"> <li>1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production.</li> <li>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"> <li>a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".</li> <li>b. One Per subplot means "One Set of Tests Per 500 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 October 2014)	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		
<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			T 40	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					
						A Sublot equals 1000 Tons					
Aggregate Production Choke Aggregate (See 00705)	Sampling Reducing Sieve Analysis			T 2 T 248 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			T 40	4000	See Section 4C	Submit to Lab			1/5 QC Samples (Random)	
Recycling Agent	Compliance			T 40	4000	1/50 Tons	Submit to Lab				
Asphalt Concrete Mixture	New Asphalt Concrete mixture will meet the requirements of Section 00744										
<b>SECTION 00730 - ASPHALT TACK COAT</b>											
Tack	Compliance			T 40	4000	See Section 4C 1/50 Tons	Submit to Lab			1/50 Tons or All QC Samples	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2014)	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			
<b>SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT</b>												
<b>Aggregate production</b>  <sup>(1)</sup> Perform at least 3 tests, QL's required  <sup>(2)</sup> May be waived by QAE  <sup>(3)</sup> QAE may waive after 5 sublots/shifts	<i>Abrasion Degradation</i> <i>Soundness</i> <i>Lightweight Pieces</i>  <i>Sampling Reducing</i> <sup>(1)</sup> Sieve Analysis <sup>(2)</sup> Cleanness Value <i>Fracture (Method 1 &amp; 2)</i> <sup>(3)</sup> Elongated Pieces <sup>(3)</sup> Wood Particles	<i>TM 208</i>     <i>TM 227</i> <i>TM 229</i> <i>TM 225</i>		<i>T 96</i>  <i>T 104</i> <i>T 113</i>	4000	See Section 4A	Submit to Lab	See Section 4A				
					4000							
					A Sublot equals 1000 Tons or a minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons)							
									<i>T 2</i> <i>T 248</i> <i>T 27/T 11</i>	1792	1/Sublot & Start of Production	10 % of Required QC
									<i>T 335</i>	1792		
				<i>T 27</i>	1792	1/Sublot	1/Project					
<b>Choke Aggregate</b>	Sieve Analysis				1792	1/Sublot	1/Project					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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		
<b>SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)</b>											
<b>Mixture Acceptance</b>						<i>A Sublot equals 1000 Tons of Mixture</i>					
	<i>Sampling Reducing Sieve Analysis Moisture Content</i>				T 2 T 248 T 27/T 11 T 255	2277 2277	1/Sublot		10 % of Required QC		
% Emulsified Asphalt <sup>(1)</sup> <b>Required at start of production and if meters fail to meet specification</b>	<i>Meter Backed by Tank Measure Daily</i>	TM 321 <sup>(1)</sup> TM 322				2401 & 2043	Daily Production	1/Project (Contact QAC for assistance)		1/5 QC Samples (Random)	
Emulsified Asphalt Cement	<i>Compliance</i>				T 40	4000	See Section 4C 1/Sublot (Submit All)	Submit to Lab	10 % of Required QC		
<b>SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)</b>											
						<i>See Specifications when Testing is Required by Agency</i>					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)		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
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)</b>									
<b>Aggregate Production</b>									
	Soundness	TM 208		T 104	4000	See Section 4A	Submit to Lab		See Section 4A
	Abrasion			T 96					
	Degradation								
	Lightweight Pieces			T 113					
	Plasticity Index			T 90	4000				
	(1) QAE may waive after 5 sublots/shifts					A Sublot equals 1000 Tons or a minimum one per shift whichever results in the greatest sampling frequency			
(2) Not required for ATPB Mix	Sampling			T 2		1/Sublot & Start of Production		10 % of Required QC	
(3) Coarse Agg (+ No. 4)	Reducing			T 248					
(4) Fine Agg (- No. 4)	(3)(4) Sieve Analysis (1)(4) Sand Equivalent			T 27/T 11 T 176	1792				
	(1)(2)(3) Elongated Pieces	TM 229				1/5 Sublots & Start of Production			
	(3)(4) Fracture (Method 2)			T 335	1792				
	(1)(2)(3) Wood Particles	TM 225							
<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 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 subplot 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 October 2014)	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
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>									
<b>Mixture Acceptance - PAC with RAP</b>									
<b>Gradation</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			T 168 R 47		1/Sublot or Min. 1/Day		10 % of Required QC	
(Residual aggregate from AASHTO T 308)	Sieve analysis			T 30	2277	1/Sublot or Min. 1/day		10 % of Required QC	
<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			T 168 R 47		1/Sublot or Min. 1/day		10 % of Required QC	
	Asphalt Content			T 308	2277				
Meter Method	Readings backed by Tank measure	TM 321 ( <sup>1</sup> ) TM 322			2277	1/Sublot or Min. 1/day		10 % of Required QC	
<sup>(1)</sup> Required at start of production and if meters fail to meet specification	& Production Records Daily				2043 and 2401	Daily Production	1/Project (Contact QAC for assistance)		
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)		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
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>									
<b>Mixture Acceptance - PAC without RAP</b>									
<b>Gradation</b>					A Sublot equals 1000 Tons				
Cold Feed Method  Ignition method  Ignition method  <b>(1) Not required if Asphalt Content Accepted by Meter</b>  (Residual aggregate from AASHTO T 308)	Sampling Reducing Sieve Analysis  Calibrate Incinerator  Sampling Reducing  Sieve analysis			T 2 T 248 T 27/T 11	2277	1/Sublot or Min. 1/Day		10 % of Required QC	
					2327IC	1/JMF & Each Calendar Year.		1/JMF & Each Calendar Year.	
						1/Sublot or Min. 1/Day		10 % of Required QC	
					2277	1/Sublot or Min. 1/day		10 % of Required QC	
<b>Asphalt Content</b>					A Sublot equals 1000 Tons				
Ignition Method  Ignition Method  <b>(2) Required at start of production and if meters fail to meet specification</b>  Meter Method  <b><u>Meter Method is required for PAC even when acceptance is by Ignition Method</u></b>	Calibrate Incinerator  Sampling Reducing  Asphalt Content  Readings backed by Tank measure & Production Records Daily	TM 323		T 168 R 47  T 308	2327IC	1/JMF & Each Calendar Year.		1/JMF & Each Calendar Year.	
						1/Sublot or Min. 1/day		10 % of Required QC	
					2277	1/Sublot or Min. 1/day		10 % of Required QC	
					2277	1/Sublot or Min. 1/day		10 % of Required QC	
					2043 and 2401	Daily Production		1/Project (Contact QAC for assistance)	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)		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	
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>										
Mixture Acceptance - PAC with and without RAP										
Mix Design Verification Testing					A Sublot equals 1000 Tons					
Cold Feed Moisture  Plant Discharge Moisture  (1) If applicable  Readings backed by Tank measure & Production Records Daily	HMA Moisture  (1) RAP Moisture			T255/T265  T 329  T 329	2277	1/Sublot or Min. 1/Day		10 % of Required QC		
					2277	1/Sublot or Min. 1/Day				
					2277	1/Sublot or Min. 1/Day		10 % of Required QC		
					2401 & 2043	Daily Production		1/Project (Contact QAC for assistance)		
					4000	1/Sublot - See section 4C		Submit to Lab	10% of Required QC	1/5 QC Samples (Random)
Asphalt Cement  (2) Required at start of production and if meters fail to meet specification										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)		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
<b>SECTION 00744 - ASPHALT CONCRETE PAVEMENT</b>									
<b>Aggregate Production</b>		See Specifications when Aggregate Testing is Required by the Agency							
<b>Mixture Acceptance</b>									
<b>Gradation</b>		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			
<b>Asphalt Content</b>		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			
	Asphalt Content			T 308	2277				
<b>Mix Design Verification Testing</b>		A Sublot equals 1000 Tons							
Plant Discharge Moisture	HMAC Moisture			T 329	2277	1/Sublot			
Maximum Density Test $G_{mm}$	Max. Specific Gravity MAMD	TM 305		T 209	2050	1st Sublot Daily or Min. 1/Day			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)		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			
SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)										
<i>Compaction</i>	<i>Nuclear Density</i>		<i>TM 8</i>		1793A	<i>(D) Average 10 tests per Sublot or Min. 10/Day, See Section 00744.49</i>				



FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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	
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>										
<b>Mixture Acceptance - ACP Without RAP</b>				<i>A Sublot equals 1000 Tons</i>						
<b>Gradation</b>										
<i>Ignition method</i>	<i>Calibrate Incinerator</i>	<i>TM 323</i>			<i>2327IC</i>	<i>1/JMF &amp; Each Calendar Year.</i>		<i>1/JMF &amp; Each Calendar Year.</i>		
<i>Ignition method</i>	<i>Sampling Reducing</i>			<i>T 168 R 47</i>		<i>1/Sublot</i>		<i>10 % of Required QC</i>		
<i>(Residual aggregate from AASHTO T 308)</i>	<i>Sieve analysis</i>			<i>T 30</i>	<i>2277</i>	<i>1/Sublot</i>		<i>10 % of Required QC</i>		
<b>Asphalt Content</b>		<i>A Sublot equals 1000 Tons</i>								
<i>Ignition Method</i>	<i>Calibrate Incinerator</i>	<i>TM 323</i>			<i>2327IC</i>	<i>1/JMF &amp; Each Calendar Year.</i>		<i>1/JMF &amp; Each Calendar Year.</i>		
<i>Ignition Method</i>	<i>Sampling Reducing</i>			<i>T 168 R 47</i>		<i>1/Sublot or Min. 1/day</i>		<i>10 % of Required QC</i>		
	<i>Asphalt Content</i>			<i>T 308</i>	<i>2277</i>					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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	
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>										
<b>Mixture Acceptance - ACP Without RAP</b>				A Sublot equals 1000 Tons						
<b>Mix Design Verification Testing</b>										
Fabrication	Gyratory Specimen	TM 326			2050GV	1/Sublot & according to Section 00745.16 (b)-1-d		10% of Required QC		
Maximum Density Test	Max. Specific Gravity			T 209	2050 *2550 *2560 *2584					
Determination of $G_{mb}$	Bulk Specific Gravity			T 166						
Stripping Susceptibility	Tensile Strength Ratio			T 283	2050tsr	1/JMF See Section 00745.16 (b)-1-f				
<i>*Cat-II complete &amp; submit as required, See Section 745.16(b)</i>										
Plant Discharge Moisture	HMAC Moisture			T 329	2277	1/Sublot				
Maximum Density Test $G_{mm}$	Max. Specific Gravity MAMD	TM 305		T 209	2050	1st Sublot Daily or Min. 1/Day				
Performing Control Strip	Control Strip	TM 306			2084 *2584	Develop Rolling Pattern See Specs.				
Compaction	Nuclear Density		TM 8		1793A	<sup>(D)</sup> Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2		10 % of Required QC		
Asphalt Cement	Compliance			T 40	4000	1/Sublot See Section 4C	Submit to Lab	10% of Required QC	1/5 QC Samples (Random)	
<i><sup>(D)</sup> See TM8 Yellowsheet for Density Test Locations</i>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>									
<b>Mixture Acceptance - ACP Without RAP</b>					A Sublot equals 1000 Tons				
<b>Mix Design Verification Testing</b>									
<i>Meter Method</i>  <b>(1) Required at start of production and if meters fail to meet specification</b>  <i>Lime or Latex</i>  <i>(2) See Special Provisions for Details</i>  <i>Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)</i>  <i>(3) See JMF for Details</i>	<i>Readings backed by Tank Measure &amp; Production Records Daily</i>  <i>Cold Feed Moisture</i>  <i>Compliance</i>  <i>(3) % Hydrated Lime</i>  <i>Readings backed by Tank Measure &amp; Production Records Daily</i>	TM 321 (1) TM 322          TM 321 (1) TM 322			2277    T 255/265   T 219    2277  2277  2043 and 2401	1/Sublot or Min. 1/Day		10% of Required QC	
						2043 and 2401 Daily Production	1/Project (Contact QAC for assistance)		
						1/Sublot or Min. 1/Day		10% of Required QC	
						(2) See 00165.35 & 00745.11(d)			
						1/Sublot		10% of Required QC	
						Daily Production	1/Project (Contact QAC for assistance)		
<b>Smoothness</b>									
Certification of Profiler Equipment Determining Profile Index Determining International Roughness Index  <u><b>Meter Method is required for ACP even when acceptance is by Ignition Method</b></u>		TM 769 TM 770 TM 772				See Special Provisions			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>									
<b>Mixture Acceptance - ACP With 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 (Residual aggregate from AASHTO T 308)	Sampling Reducing Sieve analysis			T 168 R 47 T 30	2277		1/Sublot		10 % of Required QC
<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		10 % of Required QC
RAP Percentage	Meter Method	TM 321 ( <sup>1</sup> ) TM 322			2277	1/Sublot or Minimum 1/Day		10% of Required QC	
( <sup>1</sup> ) Required at start of production and if meters fail to meet specification	RAP Moisture Cold Feed Moisture			T 329 T255/T265	2277				
<u>Meter Method is required for ACP even when acceptance is by Ignition Method</u>	Readings backed by Tank measure & Production Records Daily	TM 321 ( <sup>1</sup> ) TM 322			2401 & 2043	Daily Production	1/Project (Contact QAC for Assistance)		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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	
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>										
<b>Mixture Acceptance - ACP With RAP</b>				A Sublot equals 1000 Tons						
<b>Mix Design Verification Testing</b>										
Fabrication	Gyratory Specimen	TM 326			2050GV	1/Sublot & according to Section 00745.16 (b)-1-d		10% of Required QC		
Maximum Density Test	Max. Specific Gravity			T 209	2050 *2550 *2560 *2584					
Determination of G <sub>mb</sub>	Bulk Specific Gravity			T 166						
Stripping Susceptibility	Tensile Strength Ratio			T 283	2050tsr	1/JMF See Section 00745.16 (b)-1-f				
*Cat-II complete & submit as required, See Section 745.16(b)										
Plant Discharge Moisture	HMAC Moisture			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			2084 *2584	Develop Rolling Pattern See Specs.				
Compaction	Nuclear Density		TM 8		1793A	(D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2		10 % of Required QC		
Asphalt Cement	Compliance			T 40	4000	1/Sublot See Section 4C	Submit to Lab	10% of Required QC	1/5 QC Samples (Random)	
(D) See TM8 Yellowsheet for Density Test Locations										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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	
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>										
<b>Mixture Acceptance - ACP With RAP</b>				<i>A Sublot equals 1000 Tons</i>						
<b>Mix Design Verification Testing</b>										
<i>Lime or Latex</i>	<i>Compliance</i>				T 219					
<sup>(1)</sup> See Special Provisions for Details										
<i>Lime or Latex Treatment of Aggregate</i> <i>(Stockpile OR Mixture Production)</i>	<sup>(3)</sup> % Hydrated Lime	TM 321 <sup>(2)</sup> TM 322				2277				
						2277	1/Sublot			10% of Required QC
<sup>(2)</sup> <b>Required at start of production and if meters fail to meet specification</b>	<i>Readings backed by Tank Measure &amp; Production Records Daily</i>					2401 and 2043	Daily Production	1/Project (Contact QAC for assistance)		
<sup>(3)</sup> See JMF for Details										
<b>Smoothness</b>										
<i>Certification of Profiler Equipment</i> <i>Determining Profile Index</i> <i>Determining International Roughness Index</i>		TM 769 TM 770 TM 772					See Special Provisions			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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 00754 - PLAIN CONCRETE PAVEMENT REPAIR									
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT									
SECTION 00756 - PLAIN CONCRETE PAVEMENT									
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR									
<b>Aggregate Production</b>					<i>A Sublot equals 1000 Tons</i>				
<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			T 2					
	Reducing			T 248					
	<sup>(2)(3)(4)</sup> Sieve Analysis			T 27/T 11	1792	1/Sublot & Start of Production	10 % of Required QC		
	<sup>(4)</sup> Fineness Modulus				1792				
	<sup>(4)</sup> Sand Equivalent			T 176					
	<sup>(1)(3)</sup> Wood Particles	TM 225			1792	1/5 Sublots & Start of Production			
	<sup>(3)</sup> Fracture (Method 2)			T 335	1792				
	<sup>(1)(3)</sup> Elongated Pieces	TM 229							
	Abrasion			T 96	4000	See Section 4A and 02690	Submit to Central Lab		See Section 4A
	Degradation	TM 208		T 104					
Soundness			T 113						
Lightweight Pieces			T 21	4000					
Organics									
<sup>(3)</sup> Dry Rodded Unit Weight			T 19	1825	Start of production and when changes in aggregate occurs				
				1825C					
<sup>(3)(4)</sup> Bulk Specific Gravity & Absorption			T 84 & T 85	1825					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)	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 00754 - PLAIN CONCRETE PAVEMENT REPAIR													
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT													
SECTION 00756 - PLAIN CONCRETE PAVEMENT													
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR													
<b>(CONTINUED)</b>													
<b>Mixture</b>						<i>A Sublot equals 1000 lane feet of slip formed pavement or 100 yd<sup>3</sup> of non-slip formed PCC</i>							
<i>Portland Cement Modifiers Admixtures</i>						<i>Materials must meet the requirements of Section 02001.10</i>							
<i>Curing Compounds</i>						<i>Material must meet the requirements of Section 02050</i>							
<i>Mixing Water</i>						<i>Material must meet the requirements of Section 02020</i>							
<i>Mixture</i>		<i>Sampling</i>		<i>TM 2</i>		<i>T 152</i>		<i>3573WS or 4000C</i>		<i>1/ sublot</i>		<i>10 % of Required QC</i>	
		<i>Air Content</i>				<i>T 119</i>							
		<i>Slump</i>				<i>T 121</i>							
		<i>Density (Unit Weight)</i>				<i>T 121</i>							
		<i>Yield</i>				<i>T 309</i>							
		<i>Concrete Temperature</i>				<i>T 121</i>							
<i>(S) 1 Set Represents a minimum of 3 Cylinders</i>		<i>Water/Cement Ratio</i>											
<i>(M) Per Mix Design &amp; Source</i>		<i>Batching</i>											
		<i>Strength</i>				<i>T 22 &amp; T 23</i>		<i>4000C</i>		<i>(M) (S) 1 Set of Cylinders per sublot</i>		<i>10 % of Required QC</i>	
<b>Smoothness</b>													
<i>Certification of Profiler Equipment</i>						<i>TM 769</i>				<i>See Special Provisions</i>			
<i>Determining Profile Index</i>						<i>TM 770</i>							
<i>Thickness of Pavement</i>						<i>Sitcking Measure</i>		<i>TM 775</i>				<i>See Specs</i>	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2014)		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	
<b>SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS</b>										
<b>Placement Evaluation "Retroreflectivity"</b>										
<b>In-Place</b>	<i>Evaluation of Retroreflectivity Using Hand-Operated Instrument</i>	TM 777			4101 thru 4105	See Special Provisions and Test Procedure for Testing Frequency				
<i>Procedure evaluates Durable and High Performance Pavement Markings</i>										