

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

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

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

Definitions

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

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

TYPES OF TESTS For TYPE D OR E PROJECTS ONLY

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

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

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)					
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control						
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance			
SECTION 00330-EARTHWORK											
(See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures	Establishing Maximum Density (for Compaction)						Review Documentation for Acceptance				
	Compaction	Gradation				Contractor Quality Control Type D		Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00300			
		Density Curve			T 99	3468			1/Soil type		
		Bulk Specific Gravity			T 85	3468					
	Family of Curves			R 75	3468FC	Visual					
Compaction	Deflection Testing				1793S	1 Test per 3 ft. in depth	Review Documentation for Acceptance				
	Nuclear Gauge			T 310	1793S	See Table 00330-1 Below					
	Coarse Particle Correction			T 99	1793S						
Stone Embankment Material (See Sec. 330.16(a))	Excavations and Finished Subgrade	Gradation				Contractor Furnished Testing	Review Documentation for Acceptance				
								Deflection Testing	TM 158	1793S	1 per Layer
	Compaction						Visual	Review Documentation for Acceptance			
TABLE 00330-1 Frequency of Quality Control Testing											
Individual Areas		Under 3500 yd² or yd³		Over 3500 yd² or yd³							
Existing Ground Surface		1 test per 1000 yd ²		1 test per 3000 yd ²							
Embankments		1 test per 500 yd ³		1 test per 3000 yd ³							
Excavations and Finished Subgrade		1 test per 1000 yd ²		1 test per 3000 yd ²							
Imported Topsoil (See Section 01040.14(b))		Compliance		4000		Review Documentation for Acceptance					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00331 - SUBGRADE STABILIZATION Aggregate backfill	Material must meet the requirements of Section 00331.10					Contractor Testing		Project Manager Type D & E Review Documentation for Acceptance
						Contractor Testing	Visual	
						Visual		
SECTION 00332 - SURFACING STABILIZATION Aggregate Base	Material must meet the requirements of Section 00332.10							Review Documentation for Acceptance
						Visual	Visual	
SECTION 00333 - AGGREGATE DITCH LINING Aggregate	Material must meet the requirements of Section 00332.10							Review Documentation for Acceptance
						1/Project or 1/Source	Visual	
	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00344 - TREATED SUBGRADE								
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime			T 27 T 219	4000 4000	Contractor Testing 1/Source	Manufacture Compliance Statement	Project Manager Type D & E
Hydrated Lime Calcium Chloride Sodium Chloride	Materials must meet the requirements of Section 00344.10 and Test Results Certificate provided according to Section 00165.35(a)							
Portland Cement Water	Material must meet the requirements of Section 0201C Material must meet the requirements of Section 00340							
Establishing Maximum Density (for Compaction)	Density Curve Maximum Specific Gravity				3468	See Special Provisions and Table 00344-1 Below	Visual	Review Documentation for Acceptance
	Deflection Testing TM 158				1793S			
	Deflection Testing Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S			
Compaction								
TABLE 00344-1 Frequency of Quality Control Testing								
Individual Areas					Under 3500 yd²		Over 3500 yd²	
Finished Subgrade					1 test per 1000 yd ²		1 test per 3000 yd ²	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00360 - Drainage Blankets								
Granular Drainage Blanket	Sampling Reducing Gradation			T 2 R 76 T 27/T 11	1792	1/sublot minimum 1/Source per Project	Visual	Review Documentation for Acceptance
Sand Drainage Blanket	Sampling Reducing Gradation			T 2 R 76 T 27/T 11	1792			
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468	1/Source and Type		
Compaction	Bulk Specific Gravity			T 85	3468			
	Deflection Testing	TM 158			1793S	1 Test per 3 ft. in depth		
	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158		T 310 T 99	1793S 1793S	See Table 00360-1 Below	Visual	Review Documentation for Acceptance

TABLE 00360-1 Frequency of Quality Control Testing

	Under 3500 yd ²	Over 3500 yd ²
Individual Areas		
Existing Ground Surface	1 test per 1000 yd ²	1 test per 3000 yd ²
Finished Surfaces	1 test per 1000 yd ²	1 test per 3000 yd ²

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00390 - RIPRAP PROTECTION									
Fill Material & Riprap	Gradation See 00390.11(c)1					Contractor Furnished Testing	Visual	Review Documentation for Acceptance	
	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208		T 104 T 85	4000 1825	Contractor Furnished Testing	Provide History of Passing Tests		
	Gradation See 00390.13					Contractor Testing When Required	Visual		
	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792	1/Project	Visual		
Filter Blanket									
Grouted Riprap Sand	Soundness Lightweight Pieces			T 104 T 113	4000	Contractor Furnished Testing	Provide History of Passing Tests	Review Documentation for Acceptance	
<i>Material must meet the requirements of Section 02010</i>									
Portland Cement									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				FORM 734- (Revised November 2016)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00396 - SHOTCRETE SLOPE STABILIZATION							
Aggregate Production and Mixture	Sampling Reducing (2)(3) Sieve Analysis (3) Fineness Modulus (1)(2) Wood Particles (3) Sand Equivalent	TM 225		T 2 R 76 T 27/T 11 T 27/T 11	1/Sublot & Start of Production	Provide History of Passing Tests	A Sublot equals 1000 Tons Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts				1792			
(2) Coarse Aggregate (See Section 02690.20)							
(3) Fine Aggregate (See Section 02690.30)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96 T 113 T 21	Contractor Furnished Testing	Provide History of Passing Tests	
	(2) Dry Rodded Unit Weight (2)(3) Bulk Specific Gravity & Absorption			T 19 T 84 & T 85	Start of production and when changes in aggregate occurs	Start of production and when changes in aggregate occurs	
Portland Cement Admixtures					Material must meet the requirements of Section 02010 Material must meet the requirements of Section 02040		Review Documentation for Acceptance
Mixing Water					Material must meet the requirements of Section 02020		
Production Testing (See Section 00396.14)	(5) Test Panel				Two Test Panels per Mix Design & Two Test Panels per days Production See Section 00396.14(a)2	Two Test Panels per Mix Design & Two Test Panels per days Production See Section 00396.14(a)2	
(5) 3 Cores minimum per Panel					1/Set Cores per Test panel	1/Set Cores per Test panel	
Compression Test Cores	Strength			T 22	4000C		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL								
TRENCH FOUNDATION -- Excavation below grade only								
Selected general backfill							Contractor Quality Control Type E Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00400	Project Manager Type D & E Review Documentation for Acceptance
	Material must meet the requirements of Section 00330.13							
Selected granular backfill								
	Material must meet the requirements of Section 00330.14							
Selected stone backfill							Contractor Quality Control Type D Contractor Furnished Testing	Review Documentation for Acceptance
	Material must meet the requirements of Section 00330.15							
Other approved material						Visual		
	Material must meet the requirements of Section 00405.11							
Establishing Maximum Density	Density Curve			T 99	3468	1/Soil Type or Aggregate Gradation	Visual	Review Documentation for Acceptance
	Bulk Specific Gravity			T 85	3468			
	Family of Curves			R 75	3468FC			
	Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S	1 Test per 300 ft. of Trench		
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)										
3/8" - 0 PCC fine aggregate (See Section 02690.30(h))	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance		
Commercial 3/4" - 0 Aggregate						Contractor Provided Testing	Visual			
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792	Contractor Provided Testing	Visual			
Reasonably well graded sand, maximum 3/8" to dust						Contractor Provided Testing	Visual			
Commercial available 3/8"-0 or No.10 - 0 sand						1 per Sublot	Visual			
Continuous cradle of Commercial Grade Concrete	Material must meet the requirements of Section 00440					Contractor Provided Testing	Visual	Review Documentation for Acceptance		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)								
Pipe Zone Material								
Flexible Pipe	<i>Use the Listed Material requirements under Bedding</i>							
Rigid Pipe: Aggregate Base 1" - 0 or 3/4" - 0 Aggregate (See Section 02630.10)	Sampling Reducing Sieve Analysis				T 2 R 76 T 27 1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate						Contractor Provided Testing	Visual	
Establishing Maximum Density (¹) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve				(¹) T 99	1/Source or Aggregate Gradation	Visual	Review Documentation for Acceptance
	Bulk Specific Gravity Coarse Particle Correction				T 85 T 99 3468 3468			
Compaction	Nuclear Gauge				T 310	1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual	Review Documentation for Acceptance
					1793B			

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

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)									
Trench Backfill									
Class A Backfill - Native or common Material		Material must meet the requirements of Section 00330.43							
Class B Backfill - 1"-0 or 3/4"-0 Granular Material		Material must meet the requirements of Section 00641							
Class C Backfill - Clean sand with 100% minus 1/4" material									
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine									
Class E Backfill - Controlled Low Strength Material (CLSM)		Material must meet the requirements of Section 00442							
Establishing Maximum Density	Density Curve	(1) T 99				3468	Contractor Provided Testing	Visual	Review Documentation for Acceptance
		T 85				3468			
		T 272				3468FC			
(1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity Family of Curves	T 310				1793S or 1793B	Contractor Provided Testing	Visual	Review Documentation for Acceptance
		T 99							
Compaction	Nuclear Gauge Coarse Particle Correction						(C) 1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual	
(C) Density testing is based on cumulative lineal meters or feet of pipe placement.		Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)					
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E				
SECTION 00430 - SUBSURFACE DRAINS											
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis			T 2 R 76 T 27	1792	Visual	Contractor Provided Testing	Review Documentation for Acceptance			
									T 96	4000	Minimum 1 Per Project
Special Filter Material See Section 00430.46(a)	Abrasion Degradation	TM 208									
SECTION 00440 - COMMERCIAL GRADE CONCRETE											
Mixture	Sampling Air Content Density (Unit Weight) Slump Concrete Temperature		TM 2	T 152 T 121 T 119 T 309	3573WS or 4000C		(S) 1 per each set of cylinders	Contractor Provided Testing			
									Material must meet the requirements of Section 0203C	Manufacture Compliance Statement	
Modifiers Admixtures Portland Cement											
Structural Items	Strength			T 22 & T 23	4000C		(M) (S) 1 Set / Day Minimum	Contractor Provided Testing			
Except Visual Acceptance Items (See section 00440.14(a))	Strength			T 22 & T 23	4000C		(M) (S) 1 Set/20 yd ³ Cumulative (Maximum 1 Set/day)	Contractor Provided Testing			
(S) 1 Set Represents a minimum of 3 Cylinders								Review Documentation for Acceptance			
(M) Per Mix Design & Source											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM) CLSM Mixture	Mix Proportions Trial Batch Strength							Project Manager Type D & E		
				T 22 & T 23	4000C		1/Project or Source		Contractor Provided Testing	
Modifiers		Material must meet the requirements of Section 0203C						Review Documentation for Acceptance		
Admixtures		Material must meet the requirements of Section 0204C								
Portland Cement		Material must meet the requirements of Section 0201C								
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405										
Trench Work										
Excavation, bedding, pipe zone and trench backfill		See Section 00405 for pipes less than 72"							Review Documentation for Acceptance	
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								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E	
SECTION 00450 - STRUCTURAL PLATE PIPE, PIPE ARCH AND ARCH									
Commercial Grade Concrete in appurtenances	<i>Material must meet the requirements of Section 00440</i>								
Trench Work									
Excavation and Backfill	<i>Operations must meet the requirements of Section 00510</i>								
Trenches in Unstable Areas									
Granular Structural Backfill	<i>Material must meet the requirements of Section 00510</i>								
Establishing Maximum Density <i>(1) Method "A"</i>	Density Curve			⁽¹⁾ T 99					
	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85		3468 B	Contractor Provided Testing	Visual	
	Nuclear Gauge			T 310		1793 B	Contractor Provided Testing	Visual	
Compaction	<i>Material and Operation must meet the requirements of Section 00510.48(d)</i>								
Structure Backfill (Section 00450.46)									
SECTION 00459 - CAST IN PLACE CONCRETE PIPE									
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>						Contractor Provided Testing	Contractor Quality Control Type E	Project Manager Type D & E
							Contractor Provided Testing	Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Contractor Provided Testing	Project Manager Type D & E	
SECTION 00460 - PAVED CULVERT END SLOPES										
Commercial Grade Concrete		Material must meet the requirements of Section 00440								
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS										
Commercial Grade Concrete		Material must meet the requirements of Section 00440								
Base Drain Backfill		Material must meet the requirements of Section 00470.17								
Excavation, Backfill and Foundation Stabilization		Material must meet the requirements of Section 00405								
SECTION 00480 - DRAINAGE CURBS										
Commercial Grade Concrete		Material must meet the requirements of Section 00440								
Dense Graded HMAC Mixture Level 2, (1/2")		Material must meet the requirements of Section 00744								
		Contractor Provided Testing			Contractor Provided Testing		Visual		Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES										
Commercial Grade Concrete		Material must meet the requirements of Section 00440								
High Early Strength Concrete		Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11								
Backfill Operations		Backfill Excavations according to section 405								
Filling Abandoned Pipes, Manholes and Catch Basins (See section 00490.44)										
Backfill Operations (Roadway)		Material must meet the requirements of Section 263C								
Establishing Maximum Density (¹) Method "A"	Density Curve			(¹) T 99			Contractor Provided Testing	Visual	Review Documentation for Acceptance	
	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85		3468 B				
Compaction	Nuclear Gauge			T 310		1793B	1 Test per 100 ft. and every 1.5' of Fill	Visual		
Backfill Operations Landscaped or Unimproved Roadways		Material must meet the requirements of Section 00330.13								
Top 1.0' of Backfill Region		Material must meet the requirements of Section 00330.11								
SECTION 00495 - TRENCH RESURFACING										
Resurfacing Materials		See Section 00495.40 for Material Requirements								
							Contractor Provided Testing	Visual	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL								
Soils, Soil/Aggregate Mixtures and Graded Aggregates								
Granular Structure Backfill (See Section 02630.10)	Sampling Reducing (¹) Sieve Analysis Fracture (Method 1) Sand Equivalent			T 2 R 76 T 27 T 335 T 176	1792	1/Sublot (Minimum 1/Project)	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00500	Review Documentation for Acceptance
(¹) Perform a minimum of 3 tests QL's required								
Product Compliance	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 per Project	
Establishing Maximum Density	Density Curve			(²) T 99	3468	1/Soil type or Aggregate Gradation	Visual	
(²) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity			T 85	3468			
Compaction	Coarse Particle Correction			T 99				
	Nuclear Gauge			T 310	1793B	Min of 1 per lift	Visual	Review Documentation for Acceptance
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)								
Soils, Soil/Aggregate Mixtures and Graded Aggregates								
Granular Wall Backfill (See Section 02630.11)	Sampling Reducing (¹) Sieve Analysis Fracture (Method 2)			T 2 R 76 T 27 T 335	1792	1/Sublot (Minimum 1/Project)	Contractor Quality Control Type E	Review Documentation for Acceptance
						A Sublot equals 1,000 Tons		
Product Compliance	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance
⁽²⁾ Compaction	⁽²⁾ Deflection Testing	TM 158			1793B	1/Sublot (Minimum 1/Project)	Visual	Review Documentation for Acceptance
Note: Compaction must meet the requirements of section 00330.43c								
Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00512 - DRILLED SHAFTS								
Aggregate Production	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent Soundness Abrasion Degradation Lightweight Pieces Organics (3) Dry Rodded Unit Weight (3)(4) Bulk Specific Gravity & Absorption	TM 225		T 2 R 76 T 27/T 11 T 27/T 11 T 176 T 104 T 96 T 113 T 21	1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
(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)					4000	Contractor Provided Testing	Contractor Provided Testing	
					4000	Contractor Provided Testing	Contractor Provided Testing	
					1825 1825C 1825	Minimum of 1 per Project	Minimum of 1 per Project	
Portland Cement Modifiers Admixtures					Materials must meet the requirements of Section 02001.10			Manufacture Compliance Statement
Drilling Slurry					Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)			Contractor Provided Testing
Grout					Material must meet the requirements of Section 02080			Manufacture Compliance Statement
Mixing Water					Material must meet the requirements of Section 02020			Manufacture Compliance Statement
Aggregate Production					A Sublot equals 1000 Mg or 1000 Tons			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

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

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

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00540 - CONCRETE BRIDGES (CONTINUED)								
Portland Cement Concrete	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength		TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000C 4000C	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	Review Documentation for Acceptance
(S) 1 Set Represents a minimum of 3 Cylinders								
(M) Per Mix Design & Source								
<p>TABLE 00540-1 Frequency of Quality Control Testing</p> <p><u>Minimum frequencies per Class of concrete based on daily production records.</u></p> <p><u>Production</u></p> <p>0 to 100 yd³ on a single day 1 Set each day</p> <p><u>Quantity Over 100 yd³</u></p> <p>100 to 600 yd³ on a single day 1 Set per each 100 yd³ or portion thereof</p> <p>over 600 yd³ on a single day 1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY								
Aggregate Production	Sampling Reducing Sieve Analysis				734-			
	Moisture Content			T 2 R 76 T 27	1792	Contractor Provided Testing	Contractor Quality Control Type E	Review Documentation for Acceptance
	Absorption Abrasion Loss Mohs Hardness Scale			T 84 T 327	1792	Material must meet the requirements of section 00556.10		
Product Compliance					4000	Contractor Provided Testing	Contractor Quality Control Type E	Review Documentation for Acceptance
Polymer Resin						Material must meet the requirements of section 00556.10		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	Project Manager Type D & E	
SECTION 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS										
Aggregate Production										A Sublot equals 500 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 500 Tons.)
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4)					T 2 R 76 T 27/T 11				Review Documentation for Acceptance
(2) Perform a minimum of 3 tests, QL's required	(4) Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent				1792	T 27/T 11 T 176		Contractor Provided Testing	Contractor Quality Control Type E	
(3) Coarse Aggregate (See Section 02690.20 & 00559.10)	(1)(3) Elongated Pieces TM 229 (1)(3) Wood Particles				1792					Review Documentation for Acceptance
(4) Fine Aggregate (See Section 02690.30 & 00559.10)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208			4000	T 96 T 104 T 113 T 21		Minimum 1 Per Project	Minimum 1 Per Project	
Portland Cement Modifiers Admixtures Mixing Water					1825	T 19			Start of production and when changes in aggregate occurs	Review Documentation for Acceptance
					1825C	T 84 & T 85			Start of production and when changes in aggregate occurs	
					1825				Start of production and when changes in aggregate occurs	
Materials must meet the requirements of Section 02001.10										
Material must meet the requirements of Section 0202C										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS (CONTINUED)								
SFC AND LMC	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield W/C Ratio	TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000 C	A sublot equals 1 set of tests per 50 yd3	1 / Sublot or Minimum 1 per Shift	Contractor Provided Testing	Review Documentation for Acceptance
Latex Modified Concrete	Fine Aggregate Moisture		T 255 / T 265	1792		Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	Mixer Calibration							
^(M) Per Mix Design & Source								
SFC and LMC	Strength		T 22 & T 23	4000C		^(M) (S) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift	^(M) (S) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift	Review Documentation for Acceptance
^(S) 1 Set Represents a minimum of 3 Cylinders								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E		
SECTION 0A596 - MECHANICALLY STABILIZED EARTH RETAINING WALLS										
Aggregate Production										
Gravel Leveling Pads Backfill (See Section 02.630.10)	Abrasion Degradation	TM 208		T96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance		
	Sampling Reducing Sieve Analysis Sand Equivalent			T 2 R 76 T 27 T 176	1792	1/Sublot	Visual	Review Documentation for Acceptance		
	Fracture (Method 1)			T 335	1792	1/5 Sublots				
					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project					
Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208		T 104 T 96 T 113	4000 4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance		
					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 Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792	1/Sublot or Minimum 1 Per Project	Visual	Review Documentation for Acceptance		
	(¹) Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		T 335	1792					
	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance		
	Sieve Analysis			T27	4000	1/Sublot	Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E			
SECTION 0A596 - MECHANICALLY STABILIZED EARTH RETAINING WALLS											
Aggregate Production											
Gabion Basket Fill (Product Compliance)	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208		T 104 T 85	4000 1825		Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance		
							1/Sublot (Minimum 1/Project)	Visual			
	Gradation										
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 0A596 - MSE RETAINING WALLS								
Aggregate Production								
MSE Granular Wall Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index pH Resistivity Organic Content	TM 208		T96 T 11 T 90 T 289 T 288 T 267	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance
MSE Granular Wall Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Reducing (¹) Sieve Analysis Sand Equivalent Fracture (Method 1)			T 2 R 76 T 27 T 176 T 335	1792 1792	1/Sublot (Minimum 1/Project) 1/5 Sublots	Visual Visual	Review Documentation for Acceptance
Placement								
Establishing Maximum Density ⁽²⁾ Method A	Density Curve Bulk Specific Gravity Coarse Particle Correction	TM 223		⁽²⁾ T 99 T 85	3468 3468	1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance
Compaction	Nuclear Gauge Deflection Testing	TM 158		T 310	1793B	Minimum 1 Per Lift	Visual	Review Documentation for Acceptance
Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 0B596 - PREFABRICATED MODULAR RETAINING WALLS								
Aggregate Production								
Gravel Leveling Pads Backfill (See Section 02.630.10)	Abrasion Degradation	TM 208		T96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
	Sampling Reducing Sieve Analysis Sand Equivalent			T 2 R 76 T 27 T 176		1/Sublot	Visual	Review Documentation for Acceptance
	Fracture (Method 1)			T 335	1792	1/5 Sublots	Visual	
						Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project		
Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208		T 104 T 96 T 113	4000 4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
						A Sublot equals 1000 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	Sampling Reducing Sieve Analysis Fracture (Method 2) Elongated Pieces	TM 225 TM 229		T 2 R 76 T 27/T 11 T 335	1792 1792	1/Sublot (Minimum 1 Per Project)	Visual	Review Documentation for Acceptance
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
	Sieve Analysis			T27	4000	1/Sublot	Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E		
SECTION 0B596 - PREFABRICATED MODULAR RETAINING WALLS										
Aggregate Production										
Gabion Basket Fill (Product Compliance)	Degradation Soundness Apparent Specific Gravity & Absorption Gradation	TM 208		T 104 T 85	4000 1825	Contractor Provided Testing	Minimum 1 Per Project	Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project		
						1/Sublot	Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 0B596 - PREFABRICATED MODULAR RETAINING WALLS								
Aggregate Production								
Granular Structure Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208	T 96 T 11 T 90	4000 4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
A Sublot Equals 2000 Tons								
Granular Structure Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Reducing (¹) Sieve Analysis Sand Equivalent Fracture (Method 1)		T 2 R 76 T 27 T 176 T 335	1792 1792	1/Sublot (Min. 1 Per Project)	Visual	Review Documentation for Acceptance	
Placement Establishing Maximum Density (²) Method A	Density Curve Bulk Specific Gravity Coarse Particle Correction Nuclear Gauge Deflection Testing	TM 223 TM 158	(2) T 99 T 85 T 310	3468 3468 1793B	1/Aggregate Gradation/Per Source Minimum of 1 Per Lift	Visual Visual	Review Documentation for Acceptance	
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS								
Aggregate Production								
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
							Visual	
Granular Structure Backfill							Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project	
Granular Structure Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208		T 96 T 11 T 90	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
Granular Structure Backfill							A Sublot Equals 2000 Tons	
⁽¹⁾ Perform a minimum of 3 tests, QL's required	Sampling Reducing ⁽¹⁾ Sieve Analysis Fracture (Method 1)			T 2 R 76 T 27 T 335	1792	1/Sublot	Visual	Review Documentation for Acceptance
							1/5 Sublots Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS									
Placement									
Granular Structure Backfill Establishing Maximum Density (¹) Method A	Density Curve				(¹) T 99				
	Bulk Specific Gravity				T 85	1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance	
	Coarse Particle Correction	TM 223							
	Nuclear Gauge Deflection Testing	TM 158				Minimum of 1 Per Lift	Visual		
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE								
Aggregate Subbase Grading (See 00635.10)	Abrasion			T 96	4000	Contractor Provided Testing	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00600	Review Documentation for Acceptance
	Sampling Reducing Sieve Analysis Sand Equivalent			T 2 R 76 T 27 T 176	1792	Contractor Provided Testing		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	TEST METHOD		FORM 734-	Quality Control		Quality Assurance				
			WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E				
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS												
Aggregate Production	Abrasion			T 96	4000	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance				
Aggregate Subbase Grading (See 00641.10(b))	Sampling Reducing Sieve Analysis Sand Equivalent			T 2 R 76 T 27 T 176	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance				
					4000	Minimum 1 per Project	Submit Required Documentation	Review Documentation for Acceptance				
Aggregate Base and Shoulders Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11) (¹) Perform at least 3 tests (²) May be waived by QAE	Abrasion Degradation Sampling Reducing (¹) Sieve Analysis (²) Sand Equivalent Fracture (Method 1)	TM 208		T 2 R 76 T 27 T 176	A Sublot equals 2000 Tons		Review Documentation for Acceptance					
					1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance				
					1792	Contractor Provided Testing	Review Documentation for Acceptance					
					A Sublot equals 2000 Tons		Review Documentation for Acceptance					
PLACEMENT												
Aggregate Base Plant Mix Applications Only Aggregate (Mixture) Establishing Maximum Density & Optimum Moisture (Mix Design) Compaction ^(b) (Individual tests must meet Specification)	Sampling Reducing Moisture Density Curve Coarse Particle Correction Bulk Specific Gravity Deflection Testing Nuclear Gauge			T 2 R 76 T 255 & T 265 ⁽³⁾ T 99 T 85 T 310	1792	1/Sublot or minimum 1 per day	Visual	Review Documentation for Acceptance				
					3468	Each Size Per Source	Visual	Review Documentation for Acceptance				
					1793B	1 per Sublot	Visual	Review Documentation for Acceptance				
					1793B	^(b) 5 Tests Per Sublot	Visual	Review Documentation for Acceptance				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)								
Placement								
Aggregate Subbase								
Compaction	Deflection Testing	TM 158			1793 B	1 per Layer	Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00680 - STOCKPILED AGGREGATES								
Aggregate Base and Shoulders (See Section 00641)	Abrasion Degradation	TM 208		T 96	4000	Minimum 1 per Source/Project	Visual	Review Documentation for Acceptance
	Sampling Reducing (1) Sieve Analysis (2) Sand Equivalent			R 76 T 27 T 176	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance
	Fracture (Method 1)			T 335	1792	1/5 Sublots	Visual	
	A Sublot equals 2,000 Tons							
Aggregate (Sanding Aggregate)	Sampling Reducing Sieve Analysis (3) Cleanness Value	TM 227		T 2 R 76 T 27	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance
	Abrasion Degradation Lightweight Pieces	TM 208		T 96 T 113	4000 4000	Minimum 1 per Source/Project	Visual	
	Fracture (Method 1) Elongated Pieces Wood Particles	TM 229 TM 225		T 335	1792 1792	1/5 Sublots & Start of Production	Visual	Review Documentation for Acceptance
	A Sublot equals 1000 Tons							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
			WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)									
Emulsified AC Aggregate Aggregate Production (See Sections 00705, 00706, 00710, 00711, 00712 and 00715) (1) QAE may waive after 5 sublots/shifts (2) QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE	Abrasion Degradation Soundness Lightweight Pieces Sampling Reducing (5) Fracture (1) Wood Particles (1)(4) Elongated Pieces (2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight	TM 208	WAQTC	AASHTO	FORM 734-	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
									T 96
									T 104 T 113
									T 2 R 76 T 335
									T27/T 11
Aggregate (Other)								Review Documentation for Acceptance	
									T 19
A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency									
Use sampling and testing frequencies required for proposed end product use									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00705 - ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT								
Aggregate Cover Material	Sampling Reducing Sieve Analysis			T 2 R 76 T 27	1792		Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00700	Review Documentation for Acceptance
Asphalt Prime and Fog Coat	Compliance			R 66	4000			Review Documentation for Acceptance
SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING								
Aggregate Production	Sampling Reducing Sieve Analysis			T 2 R 76 T 27/T 11	1792		Visual	Review Documentation for Acceptance
	Compliance					4000		Visual
Additives Mineral Filler	Material must meet the requirements of Section 00706.13					Visual		Review Documentation for Acceptance
Mixture	Material must meet the requirements of Section 00706.16					Visual		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)											
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance										
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E	Project Manager Type D & E								
SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT																	
Aggregate Production																	
Abrasion Degradation Soundness Lightweight Pieces Sampling Reducing ⁽⁵⁾ Fracture ⁽¹⁾ Wood Particles ⁽¹⁾ ⁽⁴⁾ Elongated Pieces ⁽²⁾ Sieve Analysis ⁽³⁾ Cleaness Value ⁽³⁾ Dry Rodded Unit Weight Compliance	TM 208 TM 225 TM 229 TM 227	T 96 T 104 T 113 T 2 R 76 T 335 T27/T 11 T 19 R 66	4000 4000 1792 1792 1825 1825C 4000	A subplot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance	Review Documentation for Acceptance									
									Preproduced Aggregate								
									Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
									1. Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production.								
									2. Furnish records of testing for the entire stockpile according to Section 00710.10 and 710.15 Aggregate Production except change the sampling frequency to the following:								
									a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".								
									b. One Per subplot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.								
									c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT									
Aggregate Production									
(1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required). QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	Abrasion Degradation Soundness Lightweight Pieces Sampling Reducing (5) Fracture (1) Wood Particles (1)(4) Elongated Pieces (2) Sieve Analysis (3) Cleanness Value Dry Rodded Unit Weight	TM 208		T 96 T 104 T 113 T 2 R 76 T 335 T27/T 11 T 19	4000 4000 1792 1792 1825 1825C	Contractor Provided Testing	Contractor Quality Control Type E	Review Documentation for Acceptance	
						Contractor Provided Testing	Contractor Quality Control Type E		
						1 per Sublot	Visual		Review Documentation for Acceptance
						Start of production and when changes in aggregate occurs	Visual		Review Documentation for Acceptance
						Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance
Preproduced Aggregate									
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:									
1. Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production.									
2. Furnish records of testing for the entire stockpile according to Section 00711.10 and 711.15 Aggregate Production except change the sampling frequency to the following:									
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons". b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. c. Provide one stockpile sample for each set of tests required above.									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	

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

Mixture Acceptance									
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (1) TM 322				2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
						2043 and 2401	Daily Production	Production Control Testing	
⁽¹⁾ Required at start of production and if meters fail to meet specification	Cold Feed Moisture		T 255/265			2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
Plant Discharge Moisture	Asphalt Mix Moist.		T 329			2277	1/Sublot	Production Control Testing	
Asphalt Cement	Compliance		R 66			4000	1/50 Tons Submit All	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance

A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)								
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance						
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E							
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT														
Aggregate Production ⁽¹⁾ QAE may waive after 5 sublots/shifts ⁽²⁾ Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated ⁽³⁾ May be waived by QAE ⁽⁴⁾ Not required for Dry Key Material ⁽⁵⁾ 1/5 Sublots & Start of Production Asphalt Cement (Emulsion)	Abrasion Degradation Soundness Lightweight Pieces Sampling Reducing ⁽⁵⁾ Fracture ⁽¹⁾ Wood Particles ⁽¹⁾⁽⁴⁾ Elongated Pieces ⁽²⁾ Sieve Analysis ⁽³⁾ Cleaness Value Dry Rodded Unit Weight	TM 208			4000	Contractor Provided Testing	Contractor Quality Control Minimum 1 per Project	Review Documentation for Acceptance						
					T 96									
					T 104 T 113									
					T 2 R 76 T 335									
					1792	1 per Sublot	Visual		Review Documentation for Acceptance					
					1792									
					1825 1825C	Start of production and when changes in aggregate occurs	Visual							
											4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
					Preproduced Aggregate									
					Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:									
<ol style="list-style-type: none"> Continuing production records meeting the above requirements of Section 00712.10 and 712.15, Aggregate Production. Furnish records of testing for the entire stockpile according to Section 00712.10 and 712.15 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> One Per 5 sublots means "One Set of Tests Per 2500 Tons". One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. Provide one stockpile sample for each set of tests required above. 														

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)									
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control		Quality Assurance								
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E	Project Manager Type D & E						
SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT															
Aggregate Production															
<p>Abrasion Degradation Soundness Lightweight Pieces Sampling Reducing⁽⁵⁾ Fracture⁽¹⁾ Wood Particles⁽¹⁾⁽⁴⁾ Elongated Pieces⁽²⁾ Sieve Analysis⁽³⁾ Cleaness Value Dry Rodded Unit Weight</p> <p>⁽¹⁾ QAE may waive after 5 sublots/shifts</p> <p>⁽²⁾ Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated</p> <p>⁽³⁾ May be waived by QAE</p> <p>⁽⁴⁾ Not required for Dry Key Material</p> <p>⁽⁵⁾ 1/5 Sublots & Start of Production</p> <p>Asphalt Cement (Emulsion)</p> <p>Compliance</p>	<p>TM 208</p> <p>TM 225</p> <p>TM 229</p> <p>TM 227</p>	<p>T 96</p> <p>T 104</p> <p>T 113</p> <p>T 2</p> <p>R 76</p> <p>T 335</p> <p>T27/T 11</p> <p>T 19</p> <p>R 66</p>	<p>4000</p> <p>4000</p> <p>1792</p> <p>1792</p> <p>1825</p> <p>1825C</p> <p>4000</p>	<p>A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency</p> <p>Contractor Provided Testing</p> <p>Contractor Provided Testing Minimum 1 per Project</p> <p>1 per Sublot</p> <p>Start of production and when changes in aggregate occurs</p> <p>Provide Suppliers Certificate of Compliance</p> <p>Provide Suppliers Certificate of Compliance</p>	<p>Contractor Quality Control Type D</p> <p>Contractor Quality Control Type E</p>	<p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p>									
							Preproduced Aggregate								
							<p>Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:</p> <p>1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production.</p> <p>2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following:</p> <p>a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".</p> <p>b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.</p> <p>c. Provide one stockpile sample for each set of tests required above.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00720 - COLD IN-PLACE RECYCLED ASPHALT CONCRETE PAVEMENT (CIR)								
SECTION 00721 - COLD RECYCLED EMULSIFIED ASPHALT CONCRETE PAVEMENT (CRP)								
Asphalt Cement (Emulsified Recycling Agent)	Compliance			R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
Water		Material must meet the requirements of Section 00340.10				Visual	Review Documentation for Acceptance	
Aggregate Production Choke Aggregate (See 00705)	Sampling Reducing Sieve Analysis			T 2 R 76 T 27	1792	Provide Process Control	Visual	Review Documentation for Acceptance
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT								
<i>The type of recycling agent will be listed in the Special Provisions</i>								
Recycling Agent (See 00745.11)	Compliance			R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
Recycling Agent	Compliance			R 66	4000			
Asphalt Concrete Mixture		New Asphalt Concrete mixture will meet the requirements of Section 00744						
SECTION 00730 - ASPHALT TACK COAT								
Tack	Compliance			R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT								
Aggregate production	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000 4000	Contractor Provided Testing Minimum 1 per Project	Contractor Quality Control Type E	Project Manager Type D & E
(1) May be waived by QAE	Sampling Reducing Sieve Analysis (1) Cleaness Value Fracture (2) Elongated Pieces (2) Wood Particles	TM 227		T 2 R 76 T 27/T 11 T 335	1792	A Sublot equals 1000 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons)	Visual	Review Documentation for Acceptance
(2) QAE may waive after 5 sublots/shifts								
Choke Aggregate	Sieve Analysis	TM 229 TM 225		T 27	1792	Provide Process Control	Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)							
Mixture Acceptance						A Sublot equals 1000 Tons of Mixture	
% Emulsified Asphalt (¹) Required at start of production and if meters fail to meet specification	Sampling Reducing Sieve Analysis Moisture Content			T 2 R 76 T 27/T 11 T 255		Provide Process Control	Review Documentation for Acceptance
	Meter Backed by Tank Measure Daily	TM 321 (¹) TM 322			2277 2277	Visual	
Emulsified Asphalt Cement	Compliance			R 66	2401 & 2043	Daily Production	
					4000	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)							
						Provide Process Control	Review Documentation for Acceptance
	See Specifications when Testing is Required by Agency					Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)								
Aggregate Production	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208		T 104 T 96 T 113 T 90	4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
					4000			
⁽¹⁾ QAE may waive after 5 sublots/shifts					A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency			
⁽²⁾ Not required for ATPB Mix ⁽³⁾ Coarse Agg (+ No. 4) ⁽⁴⁾ Fine Agg (- No. 4)	Sampling Reducing ⁽³⁾⁽⁴⁾ Sieve Analysis ⁽¹⁾⁽⁴⁾ Sand Equivalent			T 2 R 76 T 27/T 11 T 176	1792	1/Sublot & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
	⁽¹⁾⁽²⁾⁽³⁾ Elongated Pieces TM 229 ⁽³⁾⁽⁴⁾ Fracture (Method 2) ⁽¹⁾⁽²⁾⁽³⁾ Wood Particles TM 225			T 335	1792	1/5 Sublots & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
Preproduced Aggregate								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
<ol style="list-style-type: none"> Continuing production records meeting the above requirements of Section 00743.10 Aggregate Production. Furnish records of testing for the entire stockpile according to Section 00743.10 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> One Per 5 sublots means "One Set of Tests Per 5000 Tons". One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. Provide one stockpile sample for each set of tests required above. 								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)								
Mixture Acceptance - PAC with RAP								
Gradation								
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance
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		
Asphalt Content								
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance
Ignition Method	Sampling Reducing			T 168 R 47		1/Sublot or Min. 1/day		
Meter Method	Asphalt Content			T 308	2277	1/Sublot or Min. 1/day		
	Readings backed by Tank measure & Production Records Daily	TM 321 (1) TM 322			2277	1/Sublot or Min. 1/day	Production Control Testing	
(1) Required at start of production and if meters fail to meet specification								
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
			WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	Quality Assurance	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)										
Mixture Acceptance - PAC without RAP										
Gradation										
Cold Feed Method	Sampling Reducing Sieve Analysis				T 2 R 76 T 27/T 11		1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance
Ignition method	Calibrate Incinerator	(1) TM 323			2327IC		1/JMF & Each Calendar Year.	Production Control Testing		
Ignition method	Sampling Reducing						1/Sublot or Min. 1/Day	Production Control Testing		
(1) Not required if Asphalt Content Accepted by Meter Method (Residual aggregate from AASHTO T 308)	Sieve analysis				T 30		1/Sublot or Min. 1/day	Production Control Testing		Review Documentation for Acceptance
Asphalt Content										
Ignition Method	Calibrate Incinerator	TM 323			2327IC		1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance
Ignition Method	Sampling Reducing Asphalt Content						1/Sublot or Min. 1/day	Production Control Testing		
(2) Required at start of production and if meters fail to meet specification	Readings backed by Tank measure & Production Records Daily	TM 321 (2) TM 322			2277		1/Sublot or Min. 1/day	Production Control Testing		
Meter Method					2043 and 2401		Daily Production	Production Control Testing		Review Documentation for Acceptance
Meter Method is required for PAC even when acceptance is by Ignition Method										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)										
Mixture Acceptance - PAC with and without RAP										
Mix Design Verification Testing										
	Cold Feed Moisture				T255/T265	2277	1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance
Plant Discharge Moisture	Asphalt Mix Moist.				T 329	2277	1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance
⁽¹⁾ If applicable	⁽¹⁾ RAP Moisture				T 329	2277	1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance
	Readings backed by Tank measure & Production Records Daily			TM321 ⁽²⁾ TM 322		2401 & 2043	Daily Production	Production Control Testing		Review Documentation for Acceptance
Asphalt Cement	Compliance				R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance
⁽²⁾ Required at start of production and if meters fail to meet specification										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
SECTION 00744 - ASPHALT CONCRETE PAVEMENT									
Aggregate Production									
See Specifications when Aggregate Testing is Required by Agency									
Provide Process Control									
Visual									
Review Documentation for Acceptance									
Mixture Acceptance									
A Sublot equals 1000 Tons									
Ignition method	Calibrate Incinerator	TM 323		2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance	
Ignition method	Sampling Reducing		T 168 R 47		1/Sublot or Min. 1/Day	Production Control Testing			
(Residual aggregate from AASHTO T 308)	Sieve analysis		T 30	2277	1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance	
Asphalt Content									
A Sublot equals 1000 Tons									
Ignition Method	Calibrate Incinerator	TM 323		2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance	
Ignition Method	Sampling Reducing		T 168 R 47		1/Sublot or Min. 1/day	Production Control Testing			
	Asphalt Content		T 308	2277					
Mix Design Verification Testing									
A Sublot equals 1000 Tons									
Plant Discharge Moisture	Asphalt Mix Moist.		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	Production Control Testing		Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)								
Compaction	Nuclear Density							
				T 355	1793A	(D) Average 10 tests per Sublot or Min. 10/Day, See Section 00744.49	Production Control Testing	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE								
Aggregate Production	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208		T 104 T 96 T 113 T 90	4000 4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts								
(2) Perform a minimum of 3 tests QL's required								
(3) Coarse Agg (+ No. 4)	Sampling Reducing (2)(3)(4) Sieve Analysis (1)(4) Sand Equivalent			T 2 R 76 T 27/T 11 T 176	1792	1/Sublot & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
(4) Fine Agg (- No. 4)								
Note: Sample Aggregate before Lime Treatment	(1)(3) Elongated Pieces (3)(4) Fracture (Method 2) (1)(3) Wood Particles	TM 229 TM 225		T 335	1792	1/5 Sublots & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
RAS Production (Reclaimed Asphalt Shingles)	Sieve Analysis Deleterious Materials Sampling Reducing Sieve Analysis Deleterious Materials	TM 335 TM 335		T 27 T 2 R 76 T 27	4000 1792	Contractor Provided Testing 1/500 Tons 1 / 50 Tons	Contractor Provided Testing	Review Documentation for Acceptance
Preproduced Aggregate								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
1. Continuing production records meeting the above requirements of Section 00745.10 Aggregate Production.								
2. Furnish records of testing for the entire stockpile according to Section 00745.10 Aggregate Production except change the sampling frequency to the following:								
a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".								
b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.								
c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)									
Mixture Acceptance - ACP Without RAP									
A Sublot equals 1000 Tons									
Gradation									
Ignition method	Calibrate Incinerator	TM 323			2327IC		1/JMF & Each Calendar Year.		Review Documentation for Acceptance
Ignition method	Sampling Reducing		T 168 R 47				1/Sublot	Production Control Testing	
(Residual aggregate from AASHTO T 308)	Sieve analysis		T 30		2277		1/Sublot		
Asphalt Content									
A Sublot equals 1000 Tons									
Ignition Method	Calibrate Incinerator	TM 323			2327IC		1/JMF & Each Calendar Year.		Review Documentation for Acceptance
Ignition Method	Sampling Reducing Asphalt Content		T 168 R 47 T 308				1/Sublot or Min. 1/day	Production Control Testing	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	TEST METHOD		FORM 734-	Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance	Project Manager Type D & E	
			WAQTC	AASHTO						
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)										
Mixture Acceptance - ACP Without RAP										
Mix Design Verification Testing										
Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity	TM 326	T 209	2050GV	1/Sublot & according to Section 00745.16 (b)-1-d	Production Control Testing	Review Documentation for Acceptance			
										T 166
Determination of G _{mb}	Bulk Specific Gravity			*5068						
Stripping Susceptibility	Tensile Strength Ratio		T 283	2050tsr	1/JMF See Section 00745.16 (b)-1-f	Production Control Testing	Review Documentation for Acceptance			
*Cat-II complete & submit as required, See Section 745.16(b)	Asphalt Mix Moist.		T 329							
Plant Discharge Moisture	Max. Specific Gravity MAMD	TM 305	T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			
Performing Control Strip	Control Strip	TM 306								
Compaction	Nuclear Density		T 355	2084 *5069	Develop Rolling Pattern See Specs.	Production Control Testing	Review Documentation for Acceptance			
										1793A
Asphalt Cement	Compliance		R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance			
(D) See T 355 YellowSheet for Density Test Locations										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)							
Mixture Acceptance - ACP Without RAP							
Mix Design Verification Testing							
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (1) TM 322			2277	1/Sublot or Min. 1/Day	Production Control Testing
(1) Required at start of production and if meters fail to meet specification	Cold Feed Moisture		T 255/265		2277	1/Sublot or Min. 1/Day	Production Control Testing
Lime		Material must meet the requirements of Section 2090					
Latex		See Special Provisions for Latex Requirements					
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)	(3) % Hydrated Lime	TM 321 (1) TM 322			2277	1/Sublot	Production Control Testing
(3) See JMF for Details	Readings backed by Tank Measure & Production Records Daily				2277	Daily Production	Production Control Testing
Smoothness							
Certification of Profiler Equipment Determining Profile Index Determining International Roughness Index		TM 769 TM 770 TM 772				See Special Provisions	Production Control Testing
Meter Method is required for ACP even when acceptance is by Ignition Method							Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
			WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	Quality Assurance	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)										
Mixture Acceptance - ACP With RAP										
Gradation										
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance		
Ignition method	Sampling Reducing Sieve analysis		T 168 R 47 T 30		2277	1/Sublot				
(Residual aggregate from AASHTO T 308)										
Asphalt Content										
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance		
Ignition Method	Sampling Reducing		T 168 R 47			1/Sublot or Min. 1/day				
RAP Percentage	Asphalt Content		T 308		2277					
	Meter Method	TM 321 (1) TM 322			2277	1/Sublot or Minimum 1/Day	Production Control Testing	Review Documentation for Acceptance		
(1) 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 (1) TM 322			2401 & 2043	Daily Production	Production Control Testing	Review Documentation for Acceptance		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)									
Mixture Acceptance - ACP With RAP									
Mix Design Verification Testing									
Fabrication						A Sublot equals 1000 Tons			
Maximum Density Test	Gyratory Specimen Max. Specific Gravity	TM 326		T 209	2050GV 2050 *5068 *2560 *5069	1/Sublot & according to Section 00745.16 (b)-1-d	Production Control Testing	Review Documentation for Acceptance	
Determination of G _{mb}	Bulk Specific Gravity			T 166					
Stripping Susceptibility	Tensile Strength Ratio			T 283		1/JMF See Section 00745.16 (b)-1-f	Production Control Testing	Review Documentation for Acceptance	
*Cat-II complete & submit as required, See Section 745.16(b)					2050tsr				
Plant Discharge Moisture	Asphalt Mix Moist.			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	Production Control Testing	Review Documentation for Acceptance	
Performing Control Strip	Control Strip	TM 306			2084 *5069	Develop Rolling Pattern See Specs.			
Compaction	Nuclear Density			T 355	1793A	^(D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2	Production Control Testing	Review Documentation for Acceptance	
Asphalt Cement	Compliance			R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
^(D) See T 355 YellowSheet for Density Test Locations									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP With RAP								
Mix Design Verification Testing								
Lime					A Sublot equals 1000 Tons			
Latex							Production Control Testing	Review Documentation for Acceptance
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)							Production Control Testing	Review Documentation for Acceptance
⁽²⁾ Required at start of production and if meters fail to meet specification	Readings backed by Tank Measure & Production Records Daily	TM 321			2277	1/Sublot	Production Control Testing	Review Documentation for Acceptance
		⁽²⁾ TM 322			2277			
⁽³⁾ See JMF for Details					2401 and 2043	Daily Production	Production Control Testing	Review Documentation for Acceptance
Smoothness								
Certification of Profiler Equipment								
Determining Profile Index								
Determining International Roughness Index							Production Control Testing	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR										
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT										
SECTION 00756 - PLAIN CONCRETE PAVEMENT										
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR										
Aggregate Production										
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent	T 2 R 76 T 27/T 11	T 176	1792	1792	Contractor Provided Testing	Contractor Provided Testing	Contractor Quality Control Type E	Project Manager Type D & E	Review Documentation for Acceptance
(2) Perform a minimum of 3 tests, QL's required	(1)(3) Wood Particles (3) Fracture (Method 2) (1)(3) Elongated Pieces	T 335	T 96	1792	1792	Contractor Provided Testing 1/5 Sublots & Start of Production	Contractor Provided Testing	Contractor Quality Control Type E	Project Manager Type D & E	Review Documentation for Acceptance
(3) Coarse Aggregate (See Section 02690.20)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 225 TM 229	T 104 T 113 T 21	4000	4000	Minimum 1 per Project	Contractor Provided Testing	Contractor Quality Control Type E	Project Manager Type D & E	Review Documentation for Acceptance
(4) Fine Aggregate (See Section 02690.30)	(3) Dry Rodded Unit Weight (3)(4) Bulk Specific Gravity & Absorption	TM 208	T 19 T 84 & T 85	1825 1825C	1825	Start of production and when changes in aggregate occurs	Contractor Provided Testing	Contractor Quality Control Type E	Project Manager Type D & E	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR								
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT								
SECTION 00756 - PLAIN CONCRETE PAVEMENT								
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR (CONTINUED)								
Mixture								A Sublot equals 1000 lane feet of slip formed pavement or 100 yd ³ of non-slip formed PCC
Portland Cement Modifiers Admixtures		Materials must meet the requirements of Section 02001.10						
Curing Compounds		Material must meet the requirements of Section 02050						
Mixing Water		Material must meet the requirements of Section 0202C						
Mixture	Sampling Air Content Slump Density (Unit Weight) Yield Concrete Temperature Water/Cement Ratio Batching	TM 2	T 152 T 119 T 121 T 121 T 309 T 121	3573WS or 4000C		Contractor Provided Testing	Visual	Review Documentation for Acceptance
(S) 1 Set Represents a minimum of 3 Cylinders								
(M) Per Mix Design & Source	Strength		T 22 & T 23	4000C		(M) (S) 1 Set of Cylinders per sublot	Visual	Review Documentation for Acceptance
Smoothness Certification of Profiler Equipment Determining Profile Index		TM 769 TM 770				See Special Provisions	Production Control Testing	
	Thickness of Pavement	TM 775				See Specs	Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS									
In-Place Procedure evaluates Durable and High Performance Pavement Markings	Evaluation of Retroreflectivity Using Hand-Operated Instrument	TM 777			4101 thru 4105	See Special Provisions and Test Procedure for Testing Frequency	Visual	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2016)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS							
Aggregate Production							A Sublot equals 1,000 Tons
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4) Sieve Analysis			T 2 R 76			Review Documentation for Acceptance
(2) Perform a minimum of 3 tests, QL's required	(4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent	TM 225		T 27/T 11 T 27/T 11	Contractor Provided Testing	Contractor Provided Testing	
(3) Coarse Aggregate (See Section 02690.20)	Soundness Abrasion			T 176			
(4) Fine Aggregate (See Section 02690.30)	Degradation Lightweight Pieces Organics	TM 208		T 104 T 96	Contractor Provided Testing	Contractor Provided Testing	
	(3) Dry Rodded Unit Weight			T 113 T 21			
	(3)(4) Bulk Specific Gravity & Absorption			T 19		Minimum of 1 per Project	
				1825 1825C 1825		Minimum of 1 per Project	
Portland Cement							
Modifiers Admixtures							
Drilling Slurry							
							Manufacture Compliance Statement
Grout							Contractor Provided Testing
Mixing Water							Manufacture Compliance Statement
							Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2016)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance										
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E											
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS																		
Portland Cement Concrete																		
	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength	TM 2	T 119 T 309 T 121 T 121 T 121	AASHTO	3573WS or 4000C	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	Review Documentation for Acceptance										
									T22/23	4000C								
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>																		
<p>TABLE 00512-1 Frequency of Quality Control Testing</p> <p>Minimum frequencies per Class of concrete based on daily production records.</p> <table border="1"> <thead> <tr> <th><u>Production</u></th> <th><u>Frequencies</u></th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td>1 Set each day</td> </tr> <tr> <td>Quantity Over 100 yd³</td> <td></td> </tr> <tr> <td>100 to 600 yd³ on a single day</td> <td>1 Set per each 100 yd³ or portion thereof</td> </tr> <tr> <td>over 600 yd³ on a single day</td> <td>1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>									<u>Production</u>	<u>Frequencies</u>	0 to 100 yd ³ on a single day	1 Set each day	Quantity Over 100 yd³		100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof	over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³
<u>Production</u>	<u>Frequencies</u>																	
0 to 100 yd ³ on a single day	1 Set each day																	
Quantity Over 100 yd³																		
100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof																	
over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³																	