

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 October 2015)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance	
SECTION 00330-EARTHWORK (See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures Establishing Maximum Density (for Compaction)	Gradation						Contractor Quality Control Type D	Contractor Quality Control Type E	Review Documentation for Acceptance
	Density Curve			T 99	3468		Contractor Furnished Testing	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00300	
	Bulk Specific Gravity			T 85	3468		1/Soil type		
	Family of Curves			T 272	3468FC			Visual	
	Deflection Testing			TM 158	1793S		1 Test per 3 ft. in depth	Visual	
Compaction	Nuclear Gauge			T 310	1793S		See Table 00330-1 Below	Visual	Review Documentation for Acceptance
	Coarse Particle Correction			T 99	1793S				
TABLE 00330-1 Frequency of Quality Control Testing									
Individual Areas									
Existing Ground Surface									
Embankments									
Excavations and Finished Subgrade									
Gradation									
Deflection Testing									
Stone Embankment Material (See Sec. 330.16(a))									
Compaction									
Imported Topsoil (See Section 01040.14(b))									
Compliance									

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD	FORM	Quality Control					
				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)	Gradation			Contractor Quality Control Type D	Contractor Quality Control Type E	Review Documentation for Acceptance			
	Density Curve			Contractor Furnished Testing	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00300				
	Bulk Specific Gravity			1/Soil type					
	Family of Curves				Visual				
	Deflection Testing			1 Test per 3 ft. in depth	Visual				
Compaction	Nuclear Gauge		T 310	See Table 00330-1 Below	Visual	Review Documentation for Acceptance			
	Coarse Particle Correction		T 99						
TABLE 00330-1 Frequency of Quality Control Testing									
Individual Areas									
Existing Ground Surface									
Embankments									
Excavations and Finished Subgrade									
Gradation									
Deflection Testing									
Stone Embankment Material (See Sec. 330.16(a))									
Compaction									
Imported Topsoil (See Section 01040.14(b))									
Compliance									

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 October 2015)			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 00331 - SUBGRADE STABILIZATION Aggregate backfill	Material must meet the requirements of Section 00331.10								Review Documentation for Acceptance
					Contractor Testing				
					Contractor Testing	Visual			
Water	Material must meet the requirements of Section 00340							Visual	
Compaction	Material must meet the requirements of Section 00331								
SECTION 00332 - SURFACING STABILIZATION Aggregate Base	Material must meet the requirements of Section 00332.10								Review Documentation for Acceptance
						Visual			
Compaction	Material must meet the requirements of Section 00332							Visual	
SECTION 00333 - AGGREGATE DITCH LINING Aggregate	Sampling Reducing Sieve Analysis								Review Documentation for Acceptance
					T 2 T 248 T 27/T 11				
						1/Project or 1/Source	Visual		
									1792

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 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	Review Documentation for Acceptance
Hydrated Lime Calcium Chloride Sodium Chloride	Materials must meet the requirements of Section 00344.10 and Test Results Certificate provided according to Section 00165.35(a)							
Portland Cement Water	Material must meet the requirements of Section 02010							
Establishing Maximum Density (for Compaction)	Material must meet the requirements of Section 00340							
Compaction	Density Curve 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	TM 158		T 310 T 99	1793S			
	Coarse Particle Correction							
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 October 2015)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Assurance				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
SECTION 00360 - Drainage Blankets									
Granular Drainage Blanket	Sampling Reducing Gradation			T 2 T 248 T 27/T 11	1792	Visual	1/sublot minimum 1/Source per Project	Review Documentation for Acceptance	
Sand Drainage Blanket	Sampling Reducing Gradation			T 2 T 248 T 27/T 11	1792	Visual	1/Source and Type	Review Documentation for Acceptance	
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468	Visual	1/Source and Type	Review Documentation for Acceptance	
Compaction	Bulk Specific Gravity			T 85	3468	Visual	1/Source and Type	Review Documentation for Acceptance	
	Deflection Testing			TM 158	1793S	Visual	1 Test per 3 ft. in depth	Review Documentation for Acceptance	
	Deflection Testing Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S 1793S	Visual	See Table 00360-1 Below	Review Documentation for Acceptance	
TABLE 00360-1 Frequency of Quality Control Testing									
Individual Areas				Under 3500 yd²		Over 3500 yd²			
Existing Ground Surface				1 test per 1000 yd ²		1 test per 3000 yd ²			
Finished Surfaces				1 test per 1000 yd ²		1 test per 3000 yd ²			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00390 - RIPRAP PROTECTION								
Fill Material & Riprap	Gradation See 00390.11(c)1			AASHTO	734-	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208		T 104 T 85	4000 1825	Contractor Furnished Testing	Visual	Review Documentation for Acceptance
Filter Blanket	Gradation See 00390.13					Contractor Testing When Required	Visual	
Grouted Riprap Sand	Sampling Reducing Sieve Analysis			T 2 T 248 T 27/T 11	1792	1/Project	Visual	
	Soundness Lightweight Pieces			T 104 T 113	4000	Contractor Furnished Testing	Provide History of Passing Tests	Review Documentation for Acceptance
Portland Cement		Material must meet the requirements of Section 02010						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00396 - SHOTCRETE SLOPE STABILIZATION								
Aggregate Production and Mixture								
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3) Sieve Analysis (3) Fineness Modulus	TM 225		T 2 T 248 T 27/T 11 T 27/T 11	1792	1/Sublot & Start of Production	Provide History of Passing Tests	Review Documentation for Acceptance
(2) Coarse Aggregate (See Section 02690.20)	(1)(2) Wood Particles (3) Sand Equivalent	TM 208		T 176	4000	Contractor Furnished Testing	Provide History of Passing Tests	
(3) Fine Aggregate (See Section 02690.30)	Soundness Abrasion Degradation Lightweight Pieces Organics			T 104 T 96 T 113 T 21		Start of production and when changes in aggregate occurs	Start of production and when changes in aggregate occurs	
Portland Cement Admixtures	(2) Dry Rodded Unit Weight (2)(3) Bulk Specific Gravity & Absorption			T 19 T 84 & T 85		Material must meet the requirements of Section 02010	Material must meet the requirements of Section 02040	
Mixing Water						Material must meet the requirements of Section 02020		
Production Testing (See Section 00396.14)	(5) Test Panel					Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.14(a)2	Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.14(a)2	Review Documentation for Acceptance
(5) 3 Cores minimum per Panel	Strength			T 22	4000C	1/Set Cores per Test panel	1/Set Cores per Test panel	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance	
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL									
TRENCH FOUNDATION -- Excavation below grade only									
Selected general backfill								Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00400	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 Furnished Testing		
	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	
	Bulk Specific Gravity			T 85	3468				
	Family of Curves			T 272	3468FC				
	Nuclear Gauge			T 310	1793S				
	Coarse Particle Correction			T 99			1 Test per 300 ft. of Trench	Visual	Review Documentation for Acceptance
Compaction									
<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 October 2015)						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 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)									
Bedding									
3/8" - 0	PCC fine aggregate (See Section 02690.30(h))	Sampling Reducing Sieve Analysis		T 2 T 248 T 27/T 11	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Commercial 3/4" - 0 Aggregate						Contractor Provided Testing	Visual	Review Documentation for Acceptance	
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	Sampling Reducing Sieve Analysis			T 2 T 248 T 27/T 11	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Reasonably well graded sand, maximum 3/8" to dust						Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Commercial available 3/8"-0 or No.10 - 0 sand						1 per Sublot	Visual	Review Documentation for Acceptance	
Continuous cradle of Commercial Grade Concrete						Contractor Provided Testing	Visual	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)			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	Project Manager Type D & E				
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)													
Pipe Zone Material													
Flexible Pipe		Use the Listed Material requirements under Bedding											
Rigid Pipe: Aggregate Base 1" - 0 or 3/4" - 0 Aggregate (See Section 02630.10)	Sampling Reducing Sieve Analysis				T 2 T 248 T 27	1792							
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate	Density Curve				T 99	3468							
	Bulk Specific Gravity				T 85								
Establishing Maximum Density	Coarse Particle Correction				T 99	3468							
	Nuclear Gauge				T 310	1793B							
Compaction													
<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 October 2015)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Assurance				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & 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								
	Material must meet the requirements of Section 00641								
Class B Backfill - 1"-0 or 3/4"-0 Granular Material							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Class C Backfill - Clean sand with 100% minus 1/4" material							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Class E Backfill - Controlled Low Strength Material (CLSM) Establishing Maximum Density	Material must meet the requirements of Section 00442								
(1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			(1) T 99	3468		Contractor Provided Testing	Visual	Review Documentation for Acceptance
	Bulk Specific Gravity			T 85	3468		1/Soil Type or Aggregate Gradation		
	Family of Curves			T 272	3468FC				
Compaction	Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S or 1793B		(C) 1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual	Review Documentation for Acceptance
(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 October 2015)		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 00430 - SUBSURFACE DRAINS													
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis	T 2 T 248 T 27		AASHTO	734-	A Sublot equals 1000 Tons		Project Manager Type D & E					
						Contractor Provided Testing	Visual						
						Contractor Provided Testing	Minimum 1 Per Project						
Special Filter Material See Section 00430.46(a)	Abrasion Degradation	T 96											
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		Contractor Provided Testing	Review Documentation for Acceptance					
									See section 405 for compaction requirements				
												Material must meet the requirements of Section 02030	Manufacture Compliance Statement
Material must meet the requirements of Section 02010													
				Strength		T 22 & T 23	4000C	(M) (S) 1 Set / Day Minimum	Contractor Provided Testing				
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 October 2015)		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 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)								
CLSM Mixture	Mix Proportions Trial Batch Strength					1/Project or Source	Contractor Provided Testing	Review Documentation for Acceptance
				T 22 & T 23	4000C			
		Material must meet the requirements of Section 02030						
Modifiers		Material must meet the requirements of Section 02040				Manufacture Compliance Statement	Review Documentation for Acceptance	
Admixtures		Material must meet the requirements of Section 02040						
Portland Cement		Material must meet the requirements of Section 02010						
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405								
Trench Work								
Excavation, bedding, pipe zone and trench backfill	See Section 00405 for pipes less than 72"					Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Excavation, bedding, pipe zone and trench backfill	See Section 00510 for pipes greater than 72"					Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Concrete Blocks	Material must meet the requirements of Section 00440							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)			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 00450 - STRUCTURAL PLATE PIPE, PIPE ARCH AND ARCH										
Commercial Grade Concrete in appurtenances										
Material must meet the requirements of Section 00440										
Trench Work										
Excavation and Backfill										
Operations must meet the requirements of Section 00510										
Trenches in Unstable Areas										
Granular Structural Backfill										
Material must meet the requirements of Section 00510										
Establishing Maximum Density										
⁽¹⁾ Method "A"										
Compaction	Density Curve				⁽¹⁾ T 99			Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	Bulk Specific Gravity Coarse Particle Correction	TM 223			T 85			Contractor Provided Testing	Visual	
	Nuclear Gauge				T 310			Contractor Provided Testing	Visual	
Material and Operation must meet the requirements of Section 00510.48(d)										
SECTION 00459 - CAST IN PLACE CONCRETE										
Structure Backfill (Section 00450.46)										
Material and Operation must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17										
Concrete										
Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17										
Concrete										
Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46										
Backfill Material										
Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00460 - PAVED CULVERT END SLOPES								
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS								
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>						
Base Drain Backfill		<i>Material must meet the requirements of Section 00470.17</i>				Contractor Provided Testing	Visual	Review Documentation for Acceptance
Excavation, Backfill and Foundation Stabilization		<i>Material must meet the requirements of Section 00405</i>						
SECTION 00480 - DRAINAGE CURBS								
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>				Contractor Provided Testing	Visual	Review Documentation for Acceptance
Dense Graded HMA C Mixture Level 2, (1/2")		<i>Material must meet the requirements of Section 00744</i>						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 2630						
Establishing Maximum Density (⁽¹⁾ Method "A")	Density Curve			(⁽¹⁾ T 99			Visual	Review Documentation for Acceptance
	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85		3468 B		
Compaction	Nuclear Gauge			T 310		1793B	Visual	Review Documentation for Acceptance
							1 Test per 100 ft. and every 1.5' of Fill	
Backfill Operations Landscaped or Unimproved Roadways		Material must meet the requirements of Section 00330.13						
Top 1.0' of Backfill Region		Material must meet the requirements of Section 00330.11						
SECTION 00495 - TRENCH RESURFACING								
Resurfacing Materials		See Section 00495.40 for Material Requirements						
							Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & 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 T 248 T 27 T 335 T 176		1792	A Sublot equals 1000 Tons			
					1/Sublot (Minimum 1/Project)	Requires Signed and Notarized Statement of Compliance For All Items Under Section 00500		
Product Compliance	Abrasion Degradation	TM 208		4000	Review Documentation for Acceptance			
					Contractor Provided Testing	Minimum 1 per Project		
Establishing Maximum Density	Density Curve		(2) T 99	3468	Review Documentation for Acceptance			
					1/Soil type or Aggregate Gradation	Visual		
Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity		T 85	3468	Review Documentation for Acceptance			
					Coarse Particle Correction	Visual		
Compaction	Nuclear Gauge		T 310	1793B	Review Documentation for Acceptance			
					Min of 1 per lift	Visual		
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)								
Soils, Soil/Aggregate Mixtures and Graded Aggregates								
Granular Wall Backfill (See Section 02630.11) (1) Perform a minimum of 3 tests QL's required	Sampling Reducing (1) Sieve Analysis Fracture (Method 2)			T 2 T 248 T 27 T 335	1792	1/Sublot (Minimum 1/Project)	Contractor Provided Testing	Review Documentation for Acceptance
						Contractor Provided Testing	Minimum 1 per Project	
						1/Sublot (Minimum 1/Project)	Visual	
Product Compliance	Abrasion Degradation		TM 208	T 96	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance
						1793B	Visual	
(2) Compaction	(2) Deflection Testing		TM 158					
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				(Revised October 2015)		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	TM 225		T 2 T 248 T 27/T 11 T 27/T 11	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)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96 T 113 T 21	4000	Contractor Provided Testing	Contractor Provided Testing	
(4) Fine Aggregate (See Section 02690.30)								
	(3) Dry Rodded Unit Weight			T 19	1825 1825C	Minimum of 1 per Project	Minimum of 1 per Project	
	(3)(4) Bulk Specific Gravity & Absorption			T 84 & T 85	1825			
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	Review Documentation for Acceptance
Mixing Water								
	Material must meet the requirements of Section 02020							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)			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 00512 - DRILLED SHAFTS (CONTINUED)										
Portland Cement Concrete										
	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio	TM 2	T 119 T 309 T 121 T 121 T 121	3573WS or 4000C			(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.		Review Documentation for Acceptance
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>										
TABLE 00512-1 Frequency of Quality Control Testing										
Minimum frequencies per Class of concrete based on daily production records.										
<u>Production</u>										
0 to 100 yd ³ on a single day										
1 Set each day										
<u>Quantity Over 100 yd³</u>										
100 to 600 yd ³ on a single day										
1 Set per each 100 yd ³ or portion thereof										
over 600 yd ³ on a single day										
1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00540 - CONCRETE BRIDGES								
Aggregate Production						A Sublot equals 1000 Mg or 1000 Tons		
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing			T 2 T 248		Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	(2)(3)(4) Sieve Analysis			T 27/T 11 T 27/T 11	1792			
(2) Perform a minimum of 3 tests	(4) Fineness Modulus					Minimum 1 per Project	Minimum 1 per Project	
	(1)(3) Wood Particles	TM 225		T 176				
(3) Coarse Aggregate (See Section 02690.20)	(4) Sand Equivalent					Minimum 1 per Project	Minimum 1 per Project	
	Soundness			T 104 T 96	4000			
(4) Fine Aggregate (See Section 02690.30)	Abrasion					Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
	Degradation Lightweight Pieces Organics	TM 208		T 113 T 21				
Portland Cement	(3) Dry Rodded Unit Weight			T 19	1825	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
	(3)(4) Bulk Specific Gravity & Absorption			T 84 & T 85	1825C 1825			
Modifiers		Materials must meet the requirements of Section 02001.10				Manufacture Compliance Statement		Review Documentation for Acceptance
Admixtures								
Mixing Water		Material must meet the requirements of Section 02020						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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		TM 2		3573WS or 4000C	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	Review Documentation for Acceptance
(S) 1 Set Represents a minimum of 3 Cylinders					4000C			
(M) Per Mix Design & Source								
TABLE 00540-1 Frequency of Quality Control Testing								
Minimum frequencies per Class of concrete based on daily production records.								
			Production			Frequencies		
			0 to 100 yd ³ on a single day			1 Set each day		
			Quantity Over 100 yd³			1 Set per each 100 yd ³ or portion thereof		
			100 to 600 yd ³ on a single day			1 Set per each 200 yd ³ or portion thereof		
			over 600 yd ³ on a single day			after reaching 600 yd ³		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance
SECTION 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY								
Aggregate Production								
Product Compliance	Sampling Reducing Sieve Analysis			T 2 T 248 T 27	1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
								Material must meet the requirements of section 00556.10
Polymer Resin	Absorption Abrasion Loss Mohs Hardness Scale			T 84 T 327	4000	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
								Material must meet the requirements of section 00556.10

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)				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 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS													A Sublot equals 500 Tons or a minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 500 Tons.)		
Aggregate Production	Sampling Reducing (2)(3)(4)													Review Documentation for Acceptance	
(1) QAE may waive after 5 sublots/shifts	Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent				T 2 T 248 T 27/T 11 T 27/T 11 T 176										
(2) Perform a minimum of 3 tests, QL's required															
(3) Coarse Aggregate (See Section 02690.20 & 00559.10)	(1)(3) Elongated Pieces TM 229 (1)(3) Wood Particles TM 225														
(4) Fine Aggregate (See Section 02690.30 & 00559.10)															
	Abrasion Degradation Soundness Lightweight Pieces Organics				T 96 T 104 T 113 T 21										
	(3) Dry Rodded Unit Weight														
	(3)(4) Bulk Specific Gravity & Absorption														
Portland Cement Modifiers Admixtures															
Mixing Water															
Materials must meet the requirements of Section 02001.10													Manufacture Compliance Statement		
Material must meet the requirements of Section 02020															

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 subplot equals 1 set of tests per 50 yd3	Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance Project Manager Type D & E
Latex Modified Concrete	Fine Aggregate Moisture		T 255 / T 265	1792		Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
^(M) Per Mix Design & Source	Mixer Calibration							
SFC and LMC	Strength		T 22 & T 23	4000C		^(M) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift	^(M) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance
SECTION 0A596 - MECHANICALLY STABILIZED EARTH RETAINING WALLS								
Aggregate Production								
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
	Sieve Analysis Sand Equivalent			T 27 T 176	1792	1/Sublot	Visual	Review Documentation for Acceptance
	Fracture (Method 1)			T 335	1792	1/5 Sublots		
Modular Block Core and Drainage Backfill (Product Compliance)	Soundness			T 104 T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
	Abrasion Degradation Lightweight Pieces	TM 208		T 113 T 21	4000			
	Organics pH Resistivity			T 289 T 288				
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project								
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			T 2		1/Sublot or Minimum 1 Per Project	Visual	Review Documentation for Acceptance
	Reducing			T 248				
	Sieve Analysis			T 27/T 11	1792			
	Fracture (Method 2)	TM 225		T 335	1792			
	Elongated Pieces	TM 229						
A Sublot equals 1,000 Tons								
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 October 2015)		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 0A596 - MECHANICALLY STABILIZED EARTH 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	Review Documentation for Acceptance		
										1/Sublot (Minimum 1/Project)	Visual
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 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		T 96 T 27/11 T 90 T 289 T 288 T 267	4000		Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance		
										Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project	
MSE Granular Wall Backfill											
⁽¹⁾ Perform a minimum of 3 tests, QL's required	Sampling Reducing ⁽¹⁾ Sieve Analysis Fracture (Method 1)			T 2 T 248 T 27 T 335	1792		1/Sublot (Minimum 1/Project)	Visual	Review Documentation for Acceptance		
										A Sublot Equals or 2000 Tons	
Establishing Maximum Density ⁽²⁾ Method A	Density Curve Bulk Specific Gravity Coarse Particle Correction	TM 223		⁽²⁾ T 99 T 85	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 October 2015)		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 0B596 - PREFABRICATED MODULAR RETAINING WALLS									
Aggregate Production									
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208			T96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
	Sieve Analysis Sand Equivalent				T 27 T 176	1792	1/Sublot	Visual	Review Documentation for Acceptance
	Fracture (Method 1)				T 335	1792	1/5 Sublots	Visual	Review Documentation for Acceptance
Minimum Drain Course Backfill (Product Compliance)	Soundness					4000	Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project		
	Abrasion Degradation Lightweight Pieces Organics	TM 208			T 104 T 96 T 113 T 21	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
							A Sublot equals 1000 Tons		
Minimum Drain Course Backfill (¹) QAE may waive after 5 sublots/shifts (²) Perform a minimum of 3 tests, QL's required	Sampling Reducing				T 2 T 248 T 27/T 11	1792	1/Sublot (Minimum 1 Per Project)	Visual	Review Documentation for Acceptance
	(¹) Sieve Analysis Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229			T 335	1792			
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 October 2015)		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 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	Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project			
					Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
					1/Sublot	Visual		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)		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											
Granular Structure Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208	T 96 T 27/11 T 90		4000	Contractor Provided Testing	Minimum 1 Per Project		Review Documentation for Acceptance		
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project											
Granular Structure Backfill											
⁽¹⁾ Perform a minimum of 3 tests, QL's required	Sampling Reducing ⁽¹⁾ Sieve Analysis Fracture (Method 1)		T 2 T 248 T 27 T 335		1792	1/Sublot (Minimum 1 Per Project)	Visual		Review Documentation for Acceptance		
A Sublot Equals 2000 Tons											
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	1/Aggregate Gradation/Per Source	Visual		Review Documentation for Acceptance		
Compaction											
Minimum of 1 Per Lift											
Visual											
Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)		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 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		
Granular Structure Backfill	Sieve Analysis	T 27	4000	1/Sublot	Visual				
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 27/11 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 Fracture (Method 1)	T 2 T 248 T 27 T 335	1/Sublot	1792	1/5 Sublots	Visual	Review Documentation for Acceptance		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance	
SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS									
Placement									
Granular Structure Backfill									
Establishing Maximum Density (¹) Method A	Density Curve			(¹) T 99	3468				
	Bulk Specific Gravity			T 85	3468	1/Aggregate Gradation/Per Source	Visual		Review Documentation for Acceptance
Compaction	Coarse Particle Correction		TM 223						
	Nuclear Gauge Deflection Testing		TM 158	T 310	1793B	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 October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance
SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE								
Aggregate Subbase Grading (See 00635.10)	Abrasion			T 96	4000	Contractor Quality Control Type D	Contractor Quality Control Type E	Review Documentation for Acceptance
	Sampling Reducing Sieve Analysis Sand Equivalent			T 2 T 248 T 27 T 176	1792	Contractor Quality Control Type D	Contractor Quality Control Type E	Review Documentation for Acceptance
Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00600								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)			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 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS										
Aggregate Production	Abrasion				T 96			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 T 248 T 27 T 176			Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance
								Minimum 1 per Project	Submit Required Documentation	Review Documentation for Acceptance
Aggregate Base and Shoulders	Abrasion Degradation			TM 208				A Sublot equals 2000 Tons		
Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11)	Sampling Reducing (1) Sieve Analysis (2) Sand Equivalent				T 2 T 248 T 27 T 176			Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance
								Contractor Provided Testing		Review Documentation for Acceptance
PLACEMENT										
Aggregate Base	Fracture (Method 1)				T 335					
Plant Mix Applications Only Aggregate (Mixture)	Sampling Reducing Moisture							A Sublot equals 2000 Tons		
								1/Sublot or minimum 1 per day	Visual	Review Documentation for Acceptance
Establishing Maximum Density & Optimum Moisture (Mix Design)	Density Curve Coarse Particle Correction Bulk Specific Gravity							Each Size Per Source	Visual	
									Visual	Review Documentation for Acceptance
Compaction (3) Method A	Deflection Testing Nuclear Gauge			TM 158				1 per Sublot	Visual	Review Documentation for Acceptance
								(D) 5 Tests Per Sublot	Visual	Review Documentation for Acceptance
(D) (Individual tests must meet Specification)					T 310					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance
SECTION 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
								Project Manager Type D & E

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)				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 00680 - STOCKPILED AGGREGATES																		
Aggregate Base and Shoulders (See Section 00641)											4000	Minimum 1 per Source/Project	Visual	Review Documentation for Acceptance				
(1) Perform at least 3 tests (2) May be waived by QAE											A Sublot equals 2,000 Tons							
															1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance
															1792	1/5 Sublots	Visual	
Aggregate (Sanding Aggregate)																		
(3) May be waived by QAE											A Sublot equals 1000 Tons							
															1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance
															1792			
															4000	Minimum 1 per Source/Project	Visual	
															4000			
					1792	1/5 Sublots & Start of Production	Visual	Review Documentation for Acceptance										
					1792													

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)			Same Frequency for all Tests (Minimums)										
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Assurance											
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance									
SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)																	
Emulsified AC Aggregate Aggregate Production (See Sections 00705, 00706, 00710, 00711, 00712 and 00715) (1) QAE may waive after 5 sublots/shifts (2) QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	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 TM 225 TM 229 TM 227	T 96 T 104 T 113 T 2 T 248 T 335 T27/T 11 T 19	4000 4000 1792 1792 1825 1825C	A sublot equals 500 Tons or a minimum 1 per shift, whichever results in the greatest sampling frequency Minimum 1 per Source/Project Contractor Provided Testing Start of production and when changes in aggregate occurs	Visual Visual Visual	Review Documentation for Acceptance Review Documentation for Acceptance										
								Aggregate (Other)									
								Use sampling and testing frequencies required for proposed end product use									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00705 - ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT									
Aggregate Cover Material									
Aggregate Production	Sampling Reducing Sieve Analysis		T 2 T 248 T 27		1792	Provide Process Control	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00700	Review Documentation for Acceptance	
Asphalt Prime and Fog Coat									
Asphalt Cement (Emulsion)	Compliance		R 66		4000	Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance	
SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING									
Aggregate Production									
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Sampling Reducing Sieve Analysis		T 2 T 248 T 27/T 11		1792	Provide Process Control	Visual	Review Documentation for Acceptance	
Additives Mineral Filler	Compliance				4000	Provide Suppliers Certificate of Compliance	Visual	Review Documentation for Acceptance	
Material must meet the requirements of Section 00706.13									
Material must meet the requirements of Section 00706.16									
Mixture									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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									
<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>	Abrasion Degradation Soundness Lightweight Pieces	TM 208	T 96 T 104 T 113	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	A sublot equals 500 Tons or a minimum 1 per shift, whichever results in the greatest sampling frequency	Review Documentation for Acceptance	
	Sampling Reducing (5) Fracture (1) Wood Particles (1)(4) Elongated Pieces TM 229		T 2 T 248 T 335	4000	1 per Sublot	Visual			Review Documentation for Acceptance
	(2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight	TM 227	T 27/T 11 T 19	1792 1825 1825C	Start of production and when changes in aggregate occurs	Visual			
	Asphalt Cement (Emulsion)	Compliance		R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
	Preproduced Aggregate								
	Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
	<ol style="list-style-type: none"> 1. Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00710.10 and 710.15 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> 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 October 2015)		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								
Aggregate Production								
<p>(1) QAE may waive after 5 sublots/shifts</p> <p>(2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated</p> <p>(3) May be waived by QAE</p> <p>(4) Not required for Dry Key Material</p> <p>(5) 1/5 Sublots & Start of Production</p>	<p>Abrasion Degradation Soundness Lightweight Pieces</p> <p>Sampling Reducing (5) Fracture (1) Wood Particles (1)(4) Elongated Pieces</p> <p>(2) Sieve Analysis (3) Cleanness Value Dry Rodded Unit Weight</p> <p>Compliance</p>	TM 208						
		T 96	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance		
		T 104 T 113	4000					
		T 2 T 248 T 335				Review Documentation for Acceptance		
		1792	1 per Sublot	Visual				
		T27/T 11	1792			Review Documentation for Acceptance		
		T 19	1825 1825C	Start of production and when changes in aggregate occurs	Visual			
						Review Documentation for Acceptance		
		R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance			
		Preproduced Aggregate						
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
<ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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 October 2015)		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
						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	Review Documentation for Acceptance
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 or a minimum 1 per shift, whichever results in the greatest sampling frequency								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT																	
Aggregate Production																	
<p>Abrasion Degradation Soundness Lightweight Pieces</p> <p>Sampling Reducing⁽⁵⁾ Fracture⁽¹⁾ Wood Particles⁽¹⁾(4) Elongated Pieces⁽¹⁾TM 225 TM 229</p> <p>(2) Sieve Analysis⁽²⁾ Cleaness Value⁽³⁾ TM 227 Dry Rodded Unit Weight</p> <p>(4) Not required for Dry Key Material⁽⁵⁾ 1/5 Sublots & Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	<p>TM 208</p> <p>TM 225 TM 229</p> <p>TM 227</p>	<p>T 96 T 104 T 113</p> <p>T 2 T 248 T 335</p> <p>T 277/T 11</p> <p>T 19</p> <p>R 66</p>	<p>4000</p> <p>4000</p> <p>1792</p> <p>1792</p> <p>1825 1825C</p> <p>4000</p>	<p>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>Contractor Quality Control Type D</p> <p>Contractor Quality Control Type E</p>	<p>Quality Assurance</p>	<p>Project Manager Type D & E</p>	<p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p> <p>Review Documentation for Acceptance</p>									
									<p>A sublot equals 500 Tons or a minimum 1 per shift, whichever results in the greatest sampling frequency</p>								
									Preproduced Aggregate								
									<p>Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:</p>								
									<p>1. Continuing production records meeting the above requirements of Section 00712.10 and 712.15, Aggregate Production.</p>								
									<p>2. Furnish records of testing for the entire stockpile according to Section 00712.10 and 712.15 Aggregate Production except change the sampling frequency to the following:</p>								
									<p>a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".</p>								
									<p>b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.</p>								
									<p>c. Provide one stockpile sample for each set of tests required above.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT								
Aggregate Production								
<p>(1) QAE may waive after 5 sublots/shifts</p> <p>(2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated</p> <p>(3) May be waived by QAE</p> <p>(4) Not required for Dry Key Material</p> <p>(5) 1/5 Sublots & Start of Production</p>	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
	Soundness			T 104	4000			
	Lightweight Pieces			T 113				
	Sampling Reducing			T 2				
	(5) Fracture			T 248				
	(1) Wood Particles	TM 225		T 335	1792		1 per Sublot	Visual
	(1)(4) Elongated Pieces	TM 229						
	(2) Sieve Analysis		T27/T 11		1792			
	(3) Cleaness Value	TM 227		T 19	1825		Start of production and when changes in aggregate occurs	Visual
	Dry Rodded Unit Weight				1825C			
Asphalt Cement (Emulsion)	Compliance		R 66	4000		Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
Preproduced Aggregate								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
<ol style="list-style-type: none"> 1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> 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 October 2015)		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	Contractor Quality Control Type D & E	Project Manager Type D & 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							Visual	Review Documentation for Acceptance		
Material must meet the requirements of Section 00340.10										
Aggregate Production Choke Aggregate (See 00705)	Sampling Reducing Sieve Analysis		T 2 T 248 T 27		1792	Provide Process Control	Visual	Review Documentation for Acceptance		
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT										
The type of recycling agent will be listed in the Special Provisions										
Recycling Agent (See 00745.11)	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										
SECTION 00730 - ASPHALT TACK COAT										
Tack	Compliance		R 66		4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
New Asphalt Concrete mixture will meet the requirements of Section 00744										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT								
Aggregate production	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000 4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
(1) May be waived by QAE (2) QAE may waive after 5 sublots/shifts	Sampling Reducing Sieve Analysis (1) Cleaness Value Fracture (2) Elongated Pieces (2) Wood Particles	TM 227 TM 229 TM 225		T 2 T 248 T 27/T 11 T 335	1792 1792	1/Sublot & Start of Production	Visual	Review Documentation for Acceptance
Choke Aggregate	Sieve Analysis			T 27	1792	Provide Process Control	Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)								
Mixture Acceptance								
	Sampling Reducing Sieve Analysis Moisture Content			T 2 T 248 T 277/T 11 T 255	2277 2277	Provide Process Control	Visual	Review Documentation for Acceptance
% Emulsified Asphalt (¹) Required at start of production and if meters fail to meet specification	Meter Backed by Tank Measure Daily		TM 321 (¹) TM 322		2401 & 2043	Daily Production	Visual	
Emulsified Asphalt Cement	Compliance			R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)								
	See Specifications when Testing is Required by Agency					Provide Process Control	Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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
(1) QAE may waive after 5 sublots/shifts					4000			
(2) Not required for ATPB Mix	Sampling Reducing			T 2 T 248 T 27/T 11 T 176				
(3) Coarse Agg (+ No. 4)	(3)(4) Sieve Analysis				1792		Contractor Provided Testing	Review Documentation for Acceptance
(4) Fine Agg (- No. 4)	(1)(4) Sand Equivalent							
	(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:								
1. Continuing production records meeting the above requirements of Section 00743.10 Aggregate Production.								
2. Furnish records of testing for the entire stockpile according to Section 00743.10 Aggregate Production except change the sampling frequency to the following:								
a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".								
b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.								
c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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) (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 October 2015)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)									
Mixture Acceptance - PAC without RAP									
Gradation									
Cold Feed Method	Sampling Reducing Sieve Analysis			T 248 T 277/T 11	2277	Production Control Testing	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
Ignition method	Calibrate Incinerator	(1) TM 323			2327IC	Production Control Testing	1/JMF & Each Calendar Year.	Production Control Testing	
Ignition method	Sampling Reducing			T 168 R 47		Production Control Testing	1/Sublot or Min. 1/Day	Production Control Testing	
(1) Not required if Asphalt Content Accepted by Meter	Sieve analysis			T 30	2277	Production Control Testing	1/Sublot or Min. 1/day	Production Control Testing	Review Documentation for Acceptance
Asphalt Content									
Ignition Method	Calibrate Incinerator	TM 323			2327IC	Production Control Testing	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance
Ignition Method	Sampling Reducing Asphalt Content			T 168 R 47 T 308	2277	Production Control Testing	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				2277	Production Control Testing	1/Sublot or Min. 1/day	Production Control Testing	
Meter Method	Readings backed by Tank measure & Production Records Daily	TM 321 (2) TM 322			2043 and 2401	Production Control Testing	Daily Production	Production Control Testing	Review Documentation for Acceptance
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)								
Mixture Acceptance - PAC with and without RAP								
Mix Design Verification Testing								
Cold Feed Moisture	Cold Feed Moisture	T255/T265	2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance	A Sublot equals 1000 Tons	
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		
Asphalt Cement	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 October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00744 - ASPHALT CONCRETE PAVEMENT								
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								
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	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
A Sublot equals 1000 Tons								
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	Production Control Testing	
	Asphalt Content			T 308	2277			
A Sublot equals 1000 Tons								
Mix Design Verification Testing								
Plant Discharge Moisture	Asphalt Mix Moist.							
Maximum Density Test G _{mm}	Max. Specific Gravity MAMD	TM 305			2277	1/Sublot		
				T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance
SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)								
Compaction	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 October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	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								
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)								
(⁴) Fine Agg (- No. 4)								
Note: Sample Aggregate before Lime Treatment								
				T 2 T 248 T 277/T 11 T 176	1792	1/ Sublot & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
				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	TM 335		T 27	4000	Contractor Provided Testing 1/500 Tons	Contractor Provided Testing	Review Documentation for Acceptance
	Sampling Reducing Sieve Analysis Deleterious Materials	TM 335		T 2 T 248 T 27	1792	1 / 50 Tons		
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 October 2015)		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 Without RAP									
A Sublot equals 1000 Tons									
Gradation									
Ignition method	Calibrate Incinerator	TM 323			2327IC		1/JMF & Each Calendar Year.		
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		Review Documentation for Acceptance
Asphalt Content									
A Sublot equals 1000 Tons									
Ignition Method	Calibrate Incinerator	TM 323			2327IC		1/JMF & Each Calendar Year.		
Ignition Method	Sampling Reducing			T 168 R 47			1/Sublot or Min. 1/day		Production Control Testing
	Asphalt Content			T 308	2277				Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Contractor Quality Control Type D & E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)									
Mixture Acceptance - ACP Without RAP									
Mix Design Verification Testing									
Fabrication	Gyratory Specimen	TM 326			2050GV				
Maximum Density Test	Max. Specific Gravity			T 209	2050	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	*2550 *2560 *2584				
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 *2584	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		Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
^(D) See T 355 Yellow sheet for Density Test Locations									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	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 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	Review Documentation for Acceptance
(1) Required at start of production and if meters fail to meet specification	Cold Feed Moisture	T 255/265			2043 and 2401	Daily Production		
Lime	Material must meet the requirements of Section 2090				2277	1/Sublot or Min. 1/Day	Production Control Testing	
Latex	See Special Provisions for Latex Requirements						Production Control Testing	
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)	(3) % Hydrated Lime	TM 321 (1) TM 322			2277	1/Sublot	Production Control Testing	Review Documentation for Acceptance
(3) See JMF for Details	Readings backed by Tank Measure & Production Records Daily				2277	Daily Production	Production Control Testing	
Smoothness								
Certification of Profiler Equipment		TM 769						
Determining Profile Index		TM 770						
Determining International Roughness Index		TM 772						
Meter Method is required for ACP even when acceptance is by Ignition Method						See Special Provisions	Production Control Testing	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)			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 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)														
Mixture Acceptance - ACP With RAP											A Sublot equals 1000 Tons			
Gradation Ignition method Ignition method (Residual aggregate from AASHTO T 308)	Calibrate Incinerator	TM 323			23271C		1/JMF & Each Calendar Year.							
	Sampling Reducing Sieve analysis					T 168 R 47 T 30	1/Sublot	Production Control Testing				Review Documentation for Acceptance		
Asphalt Content											A Sublot equals 1000 Tons			
Ignition Method Ignition Method RAP Percentage ⁽¹⁾ Required at start of production and if meters fail to meet specification	Calibrate Incinerator	TM 323			23271C		1/JMF & Each Calendar Year.							
	Sampling Reducing Asphalt Content					T 168 R 47 T 308	1/Sublot or Min. 1/day	Production Control Testing				Review Documentation for Acceptance		
	Meter Method RAP Moisture Cold Feed Moisture	TM 321 ⁽¹⁾ TM 322						1/Sublot or Minimum 1/Day	Production Control Testing			Review Documentation for Acceptance		
<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				T 329 T255/T265							Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP With RAP								
Mix Design Verification Testing								
Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity	TM 326	T 209	2050GV 2050 *2550 *2560 *2584	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	2050Isr	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)								
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 *2584	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 October 2015)			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										
Lime										
Latex										
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)										
⁽²⁾ Required at start of production and if meters fail to meet specification										
⁽³⁾ See JMF for Details										
Smoothness										
Certification of Profiler Equipment Determining Profile Index Determining International Roughness Index										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 248 T 277/T 11	T 176	T 2	1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
(2) Perform a minimum of 3 tests, QL's required	(1)(3) Wood Particles (3) Fracture (Method 2) (1)(3) Elongated Pieces TM 225	TM 225	T 335	T 96	1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
(4) Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208	T 104 T 113 T 21	T 19	4000	Minimum 1 per Project	Contractor Provided Testing	Review Documentation for Acceptance
	(3) Dry Rodded Unit Weight (3)(4) Bulk Specific Gravity & Absorption		T 84 & T 85	T 19	1825 1825C	Start of production and when changes in aggregate occurs	Contractor Provided Testing	Review Documentation for Acceptance

A Sublot equals 1000 Tons

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		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 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 02020							
Mixture	Sampling Air Content Slump Density (Unit Weight) Yield Concrete Temperature Water/Cement Ratio Batching Strength	TM 2	T 152 T 119 T 121 T 121 T 309 T 121	3573WS or 4000C		Contractor Provided Testing	Visual	Review Documentation for Acceptance
(^S) 1 Set Represents a minimum of 3 Cylinders						(^M) 1 Set of Cylinders per sublot		
(^M) Per Mix Design & Source			T 22 & T 23	4000C		Visual	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	Sitcking Measure	TM 775				See Specs	Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS								
Placement Evaluation "Retroreflectivity"								
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 October 2015)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS								
Aggregate Production	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent	TM 225		T 2 T 248 T 27/T 11 T 27/T 11	1792 1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts				T 176	4000	Contractor Provided Testing		
(2) Perform a minimum of 3 tests, QL's required	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96 T 113 T 21	4000	Contractor Provided Testing	Contractor Provided Testing	
(3) Coarse Aggregate (See Section 02690.20)	(3) Dry Rodded Unit Weight			T 19	1825 1825C	Minimum of 1 per Project	Minimum of 1 per Project	
(4) Fine Aggregate (See Section 02690.30)	(3)(4) Bulk Specific Gravity & Absorption			T 84 & T 85	1825	Minimum of 1 per Project	Minimum of 1 per Project	
Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10							
Drilling Slurry	Slurry material must meet the requirements of Section 00921.14 & 00921.43(g)							
Grout	Material must meet the requirements of Section 02080							
Mixing Water	Material must meet the requirements of Section 02020							
								Review Documentation for Acceptance

