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SECTION 5
Field Tested Materials
Guide (Type D&E Projects)

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

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

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

Definitions

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

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

TYPES OF TESTS For TYPE D OR E PROJECTS ONLY

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

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

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				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 00330-EARTHWORK (See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures Establishing Maximum Density (for Compaction) 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			R 75	3468FC		Visual				
	Deflection Testing	TM 158			1793S	1 Test per 3 ft. in depth	Visual				
	Nuclear Gauge			T 310	1793S	See Table 00330-1 Below					
	Coarse Particle Correction			T 99	1793S						
	Deflection Testing	TM 158			1793S		Visual				

TABLE 00330-1 Frequency of Quality Control Testing

Individual Areas	Under 3500 yd ² or yd ³		Over 3500 yd ² or yd ³	
	Existing Ground Surface	1 test per 1000 yd ²	1 test per 1000 yd ²	1 test per 3000 yd ²
Embankments	1 test per 500 yd ³	1 test per 500 yd ³	1 test per 3000 yd ³	1 test per 3000 yd ³
Excavations and Finished Subgrade	1 test per 1000 yd ²	1 test per 1000 yd ²	1 test per 3000 yd ²	1 test per 3000 yd ²
Gradation	Contractor Furnished Testing		Contractor Furnished Testing	Review Documentation for Acceptance
Deflection Testing	TM 158	1793S	1 per Layer	

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

Imported Topsoil (See Section 01040.14(b))	Compliance				Contractor Testing 1/Source & 1/Soil type	Visual	Review Documentation for Acceptance
				4000			

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00331 - SUBGRADE STABILIZATION Aggregate backfill	Material must meet the requirements of Section 00331.10							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								
					Visual	Visual			
Compaction	Material must meet the requirements of Section 00332								
Aggregate	SECTION 00333 - AGGREGATE DITCH LINING Sampling Reducing Sieve Analysis					R 90 R 76 T 27/T 11	1/Project or 1/Source	Visual	Review Documentation for Acceptance
							1792		

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00344 - TREATED SUBGRADE								
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime			T 27 T 219	4000	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	TM 158			3468	See Special Provisions and Table 00344-1 Below	Visual	Review Documentation for Acceptance
					1793S			
	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158			T 310 T 99	1793S		
TABLE 00344-1 Frequency of Quality Control Testing								
Individual Areas				Under 3500 yd²		Over 3500 yd²		
Finished Subgrade				1 test per 1000 yd ²		1 test per 3000 yd ²		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00360 - Drainage Blankets								
Granular Drainage Blanket	Sampling Reducing Gradation			R 90 R 76 T 27/T 11	1792	1/sublot minimum 1/Source per Project	Visual	Review Documentation for Acceptance
Sand Drainage Blanket	Sampling Reducing Gradation			R 90 R 76 T 27/T 11	1792			
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468	1/Source and Type		
	Bulk Specific Gravity			T 85	3468			
Compaction	Deflection Testing	TM 158			1793S	1 Test per 3 ft. in depth		
	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158		T 310 T 99	1793S	See Table 00360-1 Below	Visual	Review Documentation for Acceptance
					1793S			

TABLE 00360-1 Frequency of Quality Control Testing

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

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
SECTION 00390 - RIPRAP PROTECTION									
Fill Material & Riprap	Gradation See 00390.11(c)1					Contractor Furnished Testing	Visual	Review Documentation for Acceptance	
	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208		T 104 T 85	4000 1825	Contractor Furnished Testing	Provide History of Passing Tests		
	Gradation See 00390.13					Contractor Testing When Required	Visual		
	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	1792	1/Project	Visual		
Grouted Riprap Sand	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				

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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							A Sublot equals 1000 Tons	Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing			R 90 R 76			1/Sublot & Start of Production	
(2) Coarse Aggregate (See Section 02690.20)	(2)(3) Sieve Analysis (3) Fineness Modulus			T 27/T 11 T 27/T 11	1792		Provide History of Passing Tests	
(3) Fine Aggregate (See Section 02690.30)	(1)(2) Wood Particles (3) Sand Equivalent	TM 225		T 176				
	Soundness			T 104	4000		Contractor Furnished Testing	
	Abrasion Degradation Lightweight Pieces Organics	TM 208		T 96 T 113 T 21			Provide History of Passing Tests	
	(2) Dry Rodded Unit Weight (2)(3) Bulk Specific Gravity & Absorption			T 19 T 84 & T 85			Start of production and when changes in aggregate occurs	
Portland Cement Admixtures		Material must meet the requirements of Section 02010						Review Documentation for Acceptance
Mixing Water		Material must meet the requirements of Section 02040						
Production Testing (See Section 00396.14)		Material must meet the requirements of Section 02020						
(S) 3 Cores minimum per Panel	(S) 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
Compression Test Cores	Strength			T 22	4000C		1/Set Cores per Test panel	1/Set Cores per Test panel

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

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Quality Assurance	
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)									
Bedding 3/8" - 0 PCC fine aggregate (See Section 02690.30(h))	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11			Contractor Provided Testing	Visual	Review Documentation for Acceptance
						1792	Contractor Provided Testing	Visual	
Commercial 3/4" - 0 Aggregate							Contractor Provided Testing	Visual	
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11			Contractor Provided Testing	Visual	Review Documentation for Acceptance
						1792	Contractor Provided Testing	Visual	
Reasonably well graded sand, maximum 3/8" to dust							Contractor Provided Testing	Visual	
Commercial available 3/8"-0 or No.10 - 0 sand							1 per Sublot	Visual	
Continuous cradle of Commercial Grade Concrete	Material must meet the requirements of Section 00440						Contractor Provided Testing	Visual	Review Documentation for Acceptance

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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 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				R 90				Review Documentation for Acceptance
					R 76		Visual		
					T 27	1792	Visual		
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate	Density Curve						Contractor Provided Testing		Review Documentation for Acceptance
					(¹) T 99		Contractor Provided Testing		
					T 85	3468	Visual		
Establishing Maximum Density (¹) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity						1/Source or Aggregate Gradation		Review Documentation for Acceptance
					T 99		Visual		
						3468	Visual		
Compaction	Coarse Particle Correction								Review Documentation for Acceptance
					T 310	1793B	1 test per 100 ft. of Trench and every 2.0 ft. of Fill	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.

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)								
Trench Backfill								
Class A Backfill - Native or common Material		Material must meet the requirements of Section 00330.43			Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Class B Backfill - 1"-0 or 3/4"-0 Granular Material		Material must meet the requirements of Section 00641			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)		Material must meet the requirements of Section 00442			Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Establishing Maximum Density	Density Curve			(1) T 99	3468			
(1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity			T 85	3468			
	Family of Curves			R 75	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	
(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.								

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00430 - SUBSURFACE DRAINS										
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis	R 90 R 76 T 27	TM 208	See section 405 for compaction requirements	1792	A Sublot equals 1000 Tons	Visual	Review Documentation for Acceptance		
									4000	Minimum 1 Per Project
Special Filter Material See Section 00430.46(a)	Compaction									
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	Contractor Provided Testing	Contractor Quality Control Type E		
									4000C	Contractor Provided Testing
Modifiers Admixtures Portland Cement	Material must meet the requirements of Section 02030 Material must meet the requirements of Section 02040 Material must meet the requirements of Section 02010							Manufacture Compliance Statement		
Structural Items	Strength	T 22 & T 23	T 22 & T 23	4000C		(M) (S) 1 Set / Day Minimum	Contractor Provided Testing	Project Manager Type D & E		
Except Visual Acceptance Items (See section 00440.14(a))	Strength	T 22 & T 23	T 22 & T 23	4000C		(M) (S) 1 Set/20 yd ³ Cumulative (Maximum 1 Set/day)	Contractor Provided Testing	Review Documentation for Acceptance		
(S) 1 Set Represents a minimum of 3 Cylinders										
(M) Per Mix Design & Source										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	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			AASHTO						
					T 22 & T 23	4000C				
Modifiers		Material must meet the requirements of Section 02030								
Admixtures		Material must meet the requirements of Section 02040								
Portland Cement		Material must meet the requirements of Section 02010								
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405										
Trench Work										
Excavation, bedding, pipe zone and trench backfill		See Section 00405 for pipes less than 72"								
Excavation, bedding, pipe zone and trench backfill		See Section 00510 for pipes greater than 72"								
Concrete Blocks		Material must meet the requirements of Section 00440								
							Contractor Provided Testing	Contractor Provided Testing		Review Documentation for Acceptance

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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 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"	Density Curve			⁽¹⁾ T 99	3468 B	Contractor Provided Testing	Visual	Review Documentation for Acceptance
	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85		Contractor Provided Testing	Visual	
Compaction	Nuclear Gauge			T 310	1793 B	Contractor Provided Testing	Visual	Review Documentation for Acceptance
Structure Backfill (Section 00450.46)	Material and Operation must meet the requirements of Section 00510.48(d)							
SECTION 00459 - CAST IN PLACE CONCRETE PIPE								
Concrete	Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17							
Backfill Material					Contractor Provided Testing	Contractor Provided Testing	Visual	Review Documentation for Acceptance
					Contractor Provided Testing	Contractor Provided Testing	Visual	Review Documentation for Acceptance

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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	Material must meet the requirements of Section 00440					Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS								
Commercial Grade Concrete	Material must meet the requirements of Section 00440							
Base Drain Backfill	Material must meet the requirements of Section 00470.17					Contractor Provided Testing	Visual	Review Documentation for Acceptance
Excavation, Backfill and Foundation Stabilization	Material must meet the requirements of Section 00405							
SECTION 00480 - DRAINAGE CURBS								
Commercial Grade Concrete	Material must meet the requirements of Section 00440					Contractor Provided Testing	Visual	Review Documentation for Acceptance
Dense Graded HMA Mixture Level 2, (1/2")	Material must meet the requirements of Section 00744							

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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 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				Contractor Provided Testing	Visual		Review Documentation for Acceptance
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	Contractor Provided Testing	Visual		Review Documentation for Acceptance
	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85				
Compaction	Nuclear Gauge			T 310	1 Test per 100 ft. and every 1.5' of Fill	Visual		
					1793B			
Backfill Operations Landscaped or Unimproved Roadways	Material must meet the requirements of Section 00330.13				Contractor Provided Testing	Visual		Review Documentation for Acceptance
Top 1.0' of Backfill Region	Material must meet the requirements of Section 00330.11							
SECTION 00495 - TRENCH RESURFACING								
Resurfacing Materials	See Section 00495.40 for Material Requirements				Contractor Provided Testing	Visual		Review Documentation for Acceptance

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL								
Soils, Soil/Aggregate Mixtures and Graded Aggregates								
Granular Structure Backfill (See Section 02630.10)	Sampling Reducing (¹) Sieve Analysis Fracture (Method 1) Sand Equivalent							
		R 90 R 76 T 27 T 335 T 176			1/Sublot (Minimum 1/Project)		Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00500	Review Documentation for Acceptance
Product Compliance	Abrasion Degradation Plasticity Index Sieve Analysis				1792			
					4000		Minimum 1 per Project	
Establishing Maximum Density	Density Curve							
					3468			
Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity							
					3468		1/Soil type or Aggregate Gradation	Visual
Compaction	Coarse Particle Correction							
					1793B		Min of 1 per lift	Visual
	Nuclear Gauge							
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)								
Soils, Soil/Aggregate Mixtures and Graded Aggregates								
Granular Wall Backfill (See Section 02630.11) ⁽¹⁾ Perform a minimum of 3 tests QL's required	Sampling Reducing ⁽¹⁾ Sieve Analysis Fracture (Method 2)	R 90 R 76 T 27 T 335	T 96	1792	1/Sublot (Minimum 1/Project)	Contractor Provided Testing	Review Documentation for Acceptance	
					Contractor Provided Testing	Contractor Provided Testing		
					Contractor Provided Testing	Minimum 1 per Project		
Product Compliance	Abrasion Degradation	TM 208	T 96	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance	
⁽²⁾ Compaction	⁽²⁾ Deflection Testing	TM 158		1793B	1/Sublot (Minimum 1/Project)	Visual	Review Documentation for Acceptance	
<p>Note: Compaction must meet the requirements of section 00330.43c</p> <p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
SECTION 00512 - DRILLED SHAFTS								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts (2) Perform a minimum of 3 tests QL's required (3) Coarse Aggregate (See Section 02690.20) (4) Fine Aggregate (See Section 02690.30)	Sampling Reducing (2)/(3)/(4) Sieve Analysis (4) Fineness Modulus (1)/(3) Wood Particles (4) Sand Equivalent Soundness Abrasion Degradation Lightweight Pieces Organics (3) Dry Rodded Unit Weight (3)/(4) Bulk Specific Gravity & Absorption	TM 225 TM 208	R 90		Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance	
			R 76					
			T 27/T 11					
			T 27/T 11					
			T 176					
			T 104					
			T 96					
			T 113					
			T 21					
			T 19					
			T 84 & T 85					
Portland Cement Modifiers Admixtures			Materials must meet the requirements of Section 02001.10			Minimum of 1 per Project	Minimum of 1 per Project	Manufacture Compliance Statement
Drilling Slurry			Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)			Contractor Provided Testing	Contractor Provided Testing	Manufacture Compliance Statement
Grout			Material must meet the requirements of Section 02080					Review Documentation for Acceptance
Mixing Water			Material must meet the requirements of Section 02020					Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
			WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
SECTION 00512 - DRILLED SHAFTS (CONTINUED)										
Portland Cement Concrete	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength		TM 2	T 119 T 309 T 121 T 121 T 121		(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.			Project Manager Type D & E
(S) 1 Set Represents a minimum of 3 Cylinders					3573WS or 4000C					Review Documentation for Acceptance
(M) Per Mix Design & Source					T 22 & T 23					
TABLE 00512-1 Frequency of Quality Control Testing										
Minimum frequencies per Class of concrete based on daily production records.										
			Production				Frequencies			
			0 to 100 yd ³ on a single day		1 Set each day					
			Quantity Over 100 yd³							
			100 to 600 yd ³ on a single day		1 Set per each 100 yd ³ or portion thereof					
			over 600 yd ³ on a single day		1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	ASTM	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS								
Resin Bonded Anchor System								
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)							A Sublot equals 50 Anchors	
<i>Materials must meet the requirements of Section 00535.10</i>								
Anchor Installation								
Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements		E 488		5189		One demonstration Test includes 3 anchors (Resin shall be from same lot)	Visual
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements		E 488		5189		^(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)	Visual per Sublot
^(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Assurance		
		ODOT	ASTM	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS (continued)								
Mechanical Anchor System								
Mechanical Anchors						A Sublot equals 50 Anchors		
<i>Materials must meet the requirements of Section 00535.10(b)</i>								
Anchor Installation	Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements	E 488		5292	One demonstration Test includes 3 anchors		Visual
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements	E 488		5292	^(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)		Visual per Sublot	
^(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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	Sampling Reducing			R 90 R 76		A Sublot equals 1000 Mg or 1000 Tons		Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts	(2)(3)(4) Sieve Analysis			T 27/T 11 T 27/T 11	1792	Contractor Provided Testing	Contractor Provided Testing	
(2) Perform a minimum of 3 tests	(4) Fineness Modulus			T 176				
(3) Coarse Aggregate (See Section 02690.20)	(1)(3) Wood Particles	TM 225		T 104 T 96	4000	Minimum 1 per Project	Minimum 1 per Project	
(4) Fine Aggregate (See Section 02690.30)	(4) Sand Equivalent			T 113 T 21				
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight	TM 208		T 19	1825 1825C	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	
	(3)(4) Bulk Specific Gravity & Absorption			T 84 & T 85	1825			
	Materials must meet the requirements of Section 02001.10							
Mixing Water						Manufacture Compliance Statement		Review Documentation for Acceptance
						Material must meet the requirements of Section 02020		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 (CONTINUED)								
Portland Cement Concrete	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength	TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000C	(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	
TABLE 00540-1 Frequency of Quality Control Testing								
Minimum frequencies per Class of concrete based on daily production records.								
Production								
0 to 100 yd ³ on a single day								
1 Set each day								
Quantity Over 100 yd³								
100 to 600 yd ³ on a single day								
1 Set per each 100 yd ³ or portion thereof								
over 600 yd ³ on a single day								
1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³								
(S) 1 Set Represents a minimum of 3 Cylinders								
(M) Per Mix Design & Source								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY								
Aggregate Production								
	Moisture Content			T 255/265	1792	At time of mixing the polymer resin. See 00556.10-b.		
						Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Polymer Resin						Material must meet the requirements of section 00556.10		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00557 - PREMIXED POLYMER CONCRETE OVERLAYS							
Resin Primer	Material must meet the requirements of section 00557.10				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Polyester Resin Binder Including (Initiator, Accelerators & Inhibitors)	Material must meet the requirements of section 00557.12 (a-c)						
Aggregate Production							
Product Compliance (Submit 2- 50 lb. samples of blended aggregate (00557.02)during the trial overlay). See Section 00557.12(d)	Bulk Specific Gravity & Absorption Moisture Content Fracture (Method 1)			T 84 & T 85 T 255/265 T 335	4000	1/Project or Source	1/Project or Source
(¹) Maybe required during Production	Moisture Content			T 255/265	1792	(¹) During the Trial Overlay Strip	(¹) During the Trial Overlay Strip
Surface Texture Sand (see section 00557.12(e))	Sieve Analysis			T 27/11	1792	Contractor Provided Testing	Contractor Provided Testing
Premixed Polymer Concrete							
(^M) 1 set Represents a minimum of 3 (4"x8") cylinders cast per 00557.44(e).	Density			T 121	3573WS	(^B) 1/Batch	(^B) 1/Batch
(²) Submit to ODOT - CML	Modulus of Elasticity		TM 759		4000C	(^M) Minimum 1 set/batch	(^M) Minimum 1 set/batch
(^B) Batch is defined "Per Mixer or Portion placed".						(²) 1 set per 10 batches placed or minimum 1 set/day	(²) 1 set per 10 batches placed or minimum 1 set/day
							Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 - STRUCTURAL CONCRETE OVERLAYS								
Aggregate Production								
⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Reducing	TM 229	R 90 R 76	T 27/T 11	1792	Contractor Provided Testing	Contractor Quality Control Type E	Review Documentation for Acceptance
⁽²⁾ Perform a minimum of 3 tests, QL's required	⁽⁴⁾ Sieve Analysis ⁽⁴⁾ Fineness Modulus ⁽⁴⁾ Sand Equivalent	TM 208	T 96	T 104 T 113 T 21	4000	Minimum 1 Per Project	Minimum 1 Per Project	Review Documentation for Acceptance
⁽⁴⁾ Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208	T 19	T 84 & T 85	1825 1825C 1825	Start of production and when changes in aggregate occurs	Start of production and when changes in aggregate occurs	
								Portland Cement Modifiers Admixtures
Mixing Water	Materials must meet the requirements of Section 02001.10	Materials must meet the requirements of Section 02020	Materials must meet the requirements of Section 02001.10	Materials must meet the requirements of Section 02020	Materials must meet the requirements of Section 02001.10	Materials must meet the requirements of Section 02020	Materials must meet the requirements of Section 02001.10	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 00559 - STRUCTURAL CONCRETE OVERLAYS (CONTINUED)															
Portland Cement Concrete	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	Project Manager Type D & E	Review Documentation for Acceptance						
										Latex Modified Concrete	Fine Aggregate Moisture	1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
												^(M) Per Mix Design & Source	Mixer Calibration	4000C	
										Strength	Moisture Content				1792
												^(S) 1 Set Represents a minimum of 3 Cylinders	Moisture Content	1792	
										SECTION 00590 - POLYMER MEMBRANE	Broadcast Aggregate				Moisture Content
Moisture Content	1792	T 255/265	Review Documentation for Acceptance												

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2020)			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 00596A - 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		
	Sampling Reducing Sieve Analysis Sand Equivalent			R 90 R 76 T 27 T 176	1792	1/Sublot	Visual	Review Documentation for Acceptance		
	Fracture (Method 1)			T 335	1792	1/5 Sublots				
					A Sublot equals 1,000 Tons Minimum 1/Project					
					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project					
⁽³⁾ Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208		T 104 T 96 T 113	4000 4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance		
⁽³⁾ (See Section 2690.20(a) thru 2690.20(d) & 2690.20(f)					A Sublot equals 1,000 Tons					
⁽³⁾ Modular Block Core and Drainage Backfill ⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Reducing ⁽²⁾ Sieve Analysis ⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		R 90 R 76 T 27/T 11 T 335	1792 1792	1/Sublot or Minimum 1 Per Project	Visual	Review Documentation for Acceptance		
⁽²⁾ Perform a minimum of 3 tests, QL's required										
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sieve Analysis	TM 208		T 96 T27	4000 4000	Contractor Provided Testing 1/Sublot	Minimum 1 Per Project Visual	Review Documentation for Acceptance		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2020)			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 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS										
Aggregate Production										
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	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 November 2020)		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 00596A - MSE RETAINING WALLS									
Aggregate Production									
MSE Granular Wall Backfill (Product Compliance) (Also reference 02630. 10)	Abrasion	TM 208		T96	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance	
	Degradation		T 11						
	Sieve Analysis		T 90						
	Plasticity Index		T 289						
	pH		T 288						
Resistivity	T 267	4000							
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project									
A Sublot Equals or 2000 Tons									
MSE Granular Wall Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Reducing			R 90 R 76 T 27 T 176		1/Sublot (Minimum 1/Project)	Visual	Review Documentation for Acceptance	
	Fracture (Method 1)			T 335	1792	1/5 Sublots	Visual		
	Density Curve			(²) T 99	3468	1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance	
	Bulk Specific Gravity			T 85	3468				
	Coarse Particle Correction	TM 223			T 310	1793B	1/100 yd ³ (Minimum 1/day)	Visual	
Nuclear Gauge					1793B	1 per layer	Visual		
Deflection Testing	TM 158								
<p>Placement Establishing Maximum Density (²) Method A</p>									
<p>Compaction</p>									
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E			
SECTION 00596B - 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				
				A Sublot equals 1000 Tons Minimum 1/Project							
				1792	1/Sublot	Visual	Review Documentation for Acceptance				
				1792	1/5 Sublots	Visual					
⁽³⁾ Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208	T 104 T 96 T 113	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							
				4000							
⁽³⁾ Modular Block Core and Drainage Backfill ⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Reducing ⁽²⁾ Sieve Analysis ⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229	R 90 R 76 T 27/T 11 T 335	1792	1/Sublot (Minimum 1 Per Project)	Visual	Review Documentation for Acceptance				
				A Sublot equals 1000 Tons							
				1792							
⁽²⁾ Perform a minimum of 3 tests, QL's required	Abrasion Degradation	TM 208	T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance				
				4000	1/Sublot	Visual					
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Sieve Analysis		T27	4000	1/Sublot	Visual					

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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 00596B - PREFABRICATED MODULAR RETAINING WALLS										
Aggregate Production										
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Apparent Specific Gravity & Absorption Gradation	TM 208			T 104 T 85	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
						1825	1/Sublot	Visual		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-1792	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 00596B - PREFABRICATED MODULAR RETAINING WALLS										
Aggregate Production										
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion									
	Degradation	TM 208		T96	4000					
	Sieve Analysis			T 11						
	Plasticity Index			T 90	4000					
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project										
Contractor Provided Testing										
Minimum 1 Per Project										
Review Documentation for Acceptance										
Retaining Wall Granular Backfill										
Retaining Wall Granular Backfill ⁽¹⁾ Perform a minimum of 3 tests, QL's required	Sampling									
	Reducing			R 90						
	⁽¹⁾ Sieve Analysis Sand Equivalent			R 76 T 27 T 176	1792					
	Fracture (Method 1)			T 335	1792					
A Sublot Equals 2000 Tons										
1/Sublot (Min. 1 Per Project)										
Visual										
Review Documentation for Acceptance										
Placement										
Establishing Maximum Density ⁽²⁾ Method A	Density Curve			⁽²⁾ T 99	3468					
	Bulk Specific Gravity			T 85	3468					
Compaction	Coarse Particle Correction	TM 223								
	Nuclear Gauge			T 310	1793B					
	Deflection Testing	TM 158			1793B					
1/Aggregate Gradation/Per Source										
Visual										
Review Documentation for Acceptance										
1/100 yd ³ (Minimum 1/day)										
Visual										
1 per layer										
Visual										
Review Documentation for Acceptance										
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2020)			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 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS															
Aggregate Production															
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208	T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance								
											Sieve Analysis	T27	4000	1/Sublot	Visual
Retaining Wall Granular Backfill					Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project										
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208	T 96 T 11 T 90	4000 4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance								
											Retaining Wall Granular Backfill				
A Sublot Equals 2000 Tons															
Retaining Wall Granular Backfill ⁽¹⁾ Perform a minimum of 3 tests, QL's required	Sampling Reducing ⁽¹⁾ Sieve Analysis Fracture (Method 1)		R 90 R 76 T 27 T 335	1792 1792	1/Sublot 1/5 Sublots	Visual Visual	Review Documentation for Acceptance								
											Retaining Wall Granular Backfill				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS								
Placement								
Retaining Wall Granular Backfill								
Establishing Maximum Density (¹) Method A	Density Curve			(¹) T 99	3468			Review Documentation for Acceptance
	Bulk Specific Gravity			T 85	3468	1/Aggregate Gradation/Per Source	Visual	
Compaction	Coarse Particle Correction		TM 223					Review Documentation for Acceptance
	Nuclear Gauge			T 310	1793B	1/100 yd ³ (Minimum 1/day)	Visual	
	Deflection Testing		TM 158		1793B	1 per layer	Visual	
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 00635 - GRID-ROLLED AGGREGATE SUBBASE								
Aggregate Subbase Grading (See 00635.10)	Abrasion			T 96	4000	Contractor Provided Testing	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00600	Review Documentation for Acceptance
	Sampling Reducing Sieve Analysis Sand Equivalent			R 90 R 76 T 27 T 176	1792	Contractor Provided Testing		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			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 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS										
Aggregate Production	Abrasion				4000	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance		
Aggregate Subbase Grading (See 00641.10(b))	Sampling Reducing Sieve Analysis Sand Equivalent			T 96						
				R 90 R 76 T 27 T 176	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance		
Aggregate Base and Shoulders	Abrasion	TM 208			4000	Minimum 1 per Project	Submit Required Documentation	Review Documentation for Acceptance		
Grading	Degradation				A Sublot equals 2000 Tons					
Aggregate Base (See 02630)	Sampling Reducing			R 90 R 76		Contractor Provided Testing		Review Documentation for Acceptance		
Aggregate Shoulder (See 02640)				T 27 T 176	1792		Submit Required Documentation	Review Documentation for Acceptance		
Open Graded Aggregate Base (See 02630.11)	(1) Sieve Analysis (2) Sand Equivalent					Contractor Provided Testing		Review Documentation for Acceptance		
(1) Perform at least 3 tests (2) May be waived by QAE	Fracture (Method 1)			T 335	1792					
PLACEMENT										
Aggregate Base					A Sublot equals 2000 Tons					
Plant Mix Applications Only								Review Documentation for Acceptance		
Aggregate (Mixture)	Sampling Reducing Moisture			R 90 R 76 T 255 & T 265 (3) T 99	1792	1/Sublot or minimum 1 per day	Visual	Review Documentation for Acceptance		
Establishing Maximum Density & Optimum Moisture (Mix Design)	Density Curve					Each Size Per Source	Visual			
	Coarse Particle Correction			T 85	3468					
(3) Method A Compaction	Bulk Specific Gravity	TM 223					Visual	Review Documentation for Acceptance		
(D) (Individual tests must meet Specification)	Deflection Testing	TM 158		T 310	1793B	1 per Sublot	Visual	Review Documentation for Acceptance		
	Nuclear Gauge				1793B	(D) 5 Tests Per Sublot	Visual	Review Documentation for Acceptance		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)								
Placement								
Aggregate Subbase								
Compaction	Deflection Testing	TM 158			1793 B	1 per Layer	Visual	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 00680 - STOCKPILED AGGREGATES													
Aggregate Base and Shoulders (See Section 00641)	Abrasion Degradation	TM 208		T 96	4000	Minimum 1 per Source/Project	Visual	Review Documentation for Acceptance					
					A Sublot equals 2,000 Tons								
						Contractor Provided Testing	Visual	Review Documentation for Acceptance					
					1792								
(1) Perform at least 3 tests (2) May be waived by QAE	Sampling Reducing (1) Sieve Analysis (2) Sand Equivalent			R 76 T 27 T 176	1792								
					1792	1/5 Sublots	Visual						
Aggregate (Sanding Aggregate)													
(3) May be waived by QAE	Sampling Reducing Sieve Analysis (3) Cleaness Value	TM 227		R 90 R 76 T 27		Contractor Provided Testing	Visual	Review Documentation for Acceptance					
					A Sublot equals 1000 Tons								
					1792								
	Abrasion Degradation Lightweight Pieces	TM 208		T 96 T 113	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 November 2020)		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 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 Dry Rodded Unit Weight 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 19 R 90 R 76 T 335 T27/T 11 T 19	4000 4000 1792 1792 1825 1825C	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	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)								
									<i>Use sampling and testing frequencies required for proposed end product use</i>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00705 - ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT								
Aggregate Production Aggregate Cover Material	Sampling Reducing Sieve Analysis			R 90 R 76 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	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	1792	Provide Process Control	Visual	Review Documentation for Acceptance
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Compliance				4000	Provide Suppliers Certificate of Compliance	Visual	Review Documentation for Acceptance
Additives Mineral Filler	Material must meet the requirements of Section 00706.13							
Mixture	Material must meet the requirements of Section 00706.16							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT										
Aggregate Production										
(1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production Asphalt Cement (Emulsion)	Abrasion	TM 208	T 96	4000	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance	Review Documentation for Acceptance	Review Documentation for Acceptance
	Degradation									
	Soundness									
	Lightweight Pieces									
	Dry Rodded Unit Weight	TM 225 TM 229	T 19	4000	4000	1 per Sublot	Visual	Review Documentation for Acceptance	Review Documentation for Acceptance	Review Documentation for Acceptance
	Sampling									
	Reducing									
	(5) Fracture	TM 227	T 19	1825 1825C	1792	Start of production and when changes in aggregate occurs	Visual	Review Documentation for Acceptance	Review Documentation for Acceptance	Review Documentation for Acceptance
	(1) Wood Particles									
	(1)(4) Elongated Pieces	TM 227	R 66	4000	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	Review Documentation for Acceptance	Review Documentation for Acceptance
(2) Sieve Analysis										
(3) Cleaness Value	Compliance	R 66	4000	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	Review Documentation for Acceptance	Review Documentation for Acceptance	
Dry Rodded Unit Weight										
Preproduced Aggregate										
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:										
1. Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production.										
2. Furnish records of testing for the entire stockpile according to Section 00710.10 and 710.15 Aggregate Production except change the sampling frequency to the following:										
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".										
b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.										
c. Provide one stockpile sample for each set of tests required above.										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight	TM 208	T 96 T 104 T 113 T 19	4000	A sublot equals 500 Tons. 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	R 90 R 76 T 335	Contractor Provided Testing	
(3) May be waived by QAE	(2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight	TM 227	T 27/T 11 T 19	1792 1792	Review Documentation for Acceptance			Review Documentation for Acceptance
					(4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	1 per Sublot	Visual	
Asphalt Cement (Emulsion)	Compliance		R 66	4000	Start of production and when changes in aggregate occurs	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
Preproduced Aggregate								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
1. Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production.								
2. Furnish records of testing for the entire stockpile according to Section 00711.10 and 711.15 Aggregate Production except change the sampling frequency to the following:								
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".								
b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.								
c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E		
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT (CONTINUED)											
Mixture Acceptance											
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (1) TM 322					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		2277		Daily Production	Production Control Testing			
Plant Discharge Moisture	Asphalt Mix Moist.		T 329		2277		1/Sublot	Production Control Testing			
Asphalt Cement	Compliance		R 66		4000		1/50 Tons Submit All	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	Abrasion	TM 208			4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
	Degradation							
	Soundness							
	Lightweight Pieces							
	Dry Rodded Unit Weight							
Sampling	R 90	1792		1 per Sublot	1792	Visual	Review Documentation for Acceptance	
Reducing	R 76							
(5) Fracture	T 335							
(1) Wood Particles	TM 225	TM 227		T 27/T 11	1825	Start of production and when changes in aggregate occurs	Visual	Review Documentation for Acceptance
(1)(4) Elongated Pieces	TM 229							
(2) Sieve Analysis					1825C			
(3) Cleaness Value								
Dry Rodded Unit Weight								
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: 1. Continuing production records meeting the above requirements of Section 00712.10 and 712.15, Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00712.10 and 712.15 Aggregate Production except change the sampling frequency to the following: a. One Per 5 sublots means "One Set of Tests Per 2500 Tons". b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight	TM 208		T 96 T 104 T 113 T 19	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
(3) May be waived by QAE	Sampling Reducing (5) Fracture (1) Wood Particles (1)(4) Elongated Pieces	TM 225 TM 229		R 90 R 76 T 335	1792	1 per Sublot	Visual	Review Documentation for Acceptance
(4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	(2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight	TM 227		T27/T 11 T 19	1792	Start of production and when changes in aggregate occurs	Visual	Review Documentation for Acceptance
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:								
1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production.								
2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following:								
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".								
b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.								
c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 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	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance					
Water		Material must meet the requirements of Section 00340.10			Visual	Review Documentation for Acceptance						
Aggregate Production Choke Aggregate (See 00705)	Sampling Reducing Sieve Analysis	R 90 R 76 T 27	1792	Provide Process Control	Visual	Review Documentation for Acceptance						
										A Sublot equals 1000 Tons		
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT												
<i>The type of recycling agent will be listed in the Special Provisions</i>												
Recycling Agent (See 00745.11)	Compliance	R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance						
Recycling Agent	Compliance	R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance						
Asphalt Concrete Mixture	New Asphalt Concrete mixture will meet the requirements of Section 00744											
SECTION 00730 - ASPHALT TACK COAT												
Tack	Compliance	R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT									
Aggregate production									
(1) May be waived by QAE (2) QAE may waive after 5 sublots/shifts	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance	
					4000				
					A Sublot equals 1000 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons)				
Choke Aggregate	Sampling Reducing Sieve Analysis (1) Cleanness Value Fracture (2) Elongated Pieces (2) Wood Particles Sieve Analysis	TM 227 TM 229 TM 225		R 90 R 76 T 27/T 11 T 335 T 27	1792	1/Sublot & Start of Production	Visual	Review Documentation for Acceptance	
					1792				
					1792				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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	Contractor Quality Control Type E						
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)															
Mixture Acceptance															
% Emulsified Asphalt (¹) Required at start of production and if meters fail to meet specification	Sampling Reducing Sieve Analysis Moisture Content	R 90 R 76 T 27/T 11 T 255			2277 2277	Provide Process Control	Visual	Review Documentation for Acceptance							
											TM 321 (¹) TM 322	2401 & 2043	Daily Production	Visual	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 November 2020)		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								
(1) QAE may waive after 5 sublots/shifts	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208			T 104	Contractor Provided Testing Minimum 1 per Project	Contractor Quality Control Type E	Review Documentation for Acceptance
					T 96			
(2) Not required for ATPB Mix (3) Coarse Agg (+ No. 4) (4) Fine Agg (- No. 4)	Sampling Reducing (3)(4) Sieve Analysis (1)(4) Sand Equivalent				4000	A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency		
					T 113			
					4000			
					1792	1/Sublot & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
					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 November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)									
Mixture Acceptance - PAC with RAP									
Gradation									
Ignition method	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.			
Ignition method	Sampling Reducing			R 97 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			Review Documentation for Acceptance
⁽¹⁾ Submit Samples a minimum of 2 Days Prior to ACP Production									
Asphalt Content									
Ignition Method	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.			
Ignition Method	Sampling Reducing			R 97 R 47		1/Sublot or Min. 1/day			
Meter Method	Asphalt Content			T 308	2277				Review Documentation for Acceptance
	Readings backed by Tank measure & Production Records Daily	TM 321 (2) TM 322			2277	1/Sublot or Min. 1/day			
⁽²⁾ Required at start of production and if meters fail to meet specification									
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>									

A Sublot equals 1000 Tons

A Sublot equals 1000 Tons

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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	Contractor Quality Control Type E
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)									
Mixture Acceptance - PAC without RAP									
Gradation									
Cold Feed Method	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11			1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
Ignition method	(¹) Calibrate Incinerator	TM 323		2327IC			1/JMF & Each Calendar Year.	Production Control Testing	
Ignition method	Sampling Reducing			R 97 R 47			1/Sublot or Min. 1/Day	Production Control Testing	
(¹) Not required if Asphalt Content Accepted by Meter Method									
(Residual aggregate from AASHTO T 308)	Sieve analysis			T 30			1/Sublot or Min. 1/day	Production Control Testing	Review Documentation for Acceptance
(¹) Submit Samples a minimum of 2 Days Prior to ACP Production									
Asphalt Content									
Ignition Method	(¹) Calibrate Incinerator	TM 323					1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance
Ignition Method	Sampling Reducing Asphalt Content			R 97 R 47 T 308			1/Sublot or Min. 1/day	Production Control Testing	
(²) Required at start of production and if meters fail to meet specification	Readings backed by Tank measure & Production Records Daily	TM 321 (²) TM 322		2277			1/Sublot or Min. 1/day	Production Control Testing	
Meter Method				2043 and 2401			Daily Production	Production Control Testing	Review Documentation for Acceptance
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				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 and without RAP											
Mix Design Verification Testing											
	Cold Feed Moisture				T255/T265	2277	1/Sublot or Min. 1/Day	Production Control Testing			Review Documentation for Acceptance
Plant Discharge Moisture	Asphalt Mix Moist.				T 329	2277	1/Sublot or Min. 1/Day	Production Control Testing			Review Documentation for Acceptance
(1) RAP Percentage	(1) RAP Moisture				T 329	2277	1/Sublot or Min. 1/Day	Production Control Testing			Review Documentation for Acceptance
(1) If applicable	Readings backed by Tank measure & Production Records Daily	TM321 (2) TM 322				2401 & 2043	Daily Production	Production Control Testing			Review Documentation for Acceptance
Asphalt Cement	Compliance				R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance			Review Documentation for Acceptance
(2) Required at start of production and if meters fail to meet specification											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			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									
Mixture Acceptance									
Gradation									
Ignition method	⁽¹⁾ Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons		Review Documentation for Acceptance	
						1/JMF & Each Calendar Year.	Production Control Testing		
						1/Sublot or Min. 1/Day	Production Control Testing		
Ignition method	Sieve analysis			T 30	2277	1/Sublot or Min. 1/Day		Review Documentation for Acceptance	
						1/Sublot or Min. 1/Day	Production Control Testing		
(Residual aggregate from AASHTO T 308)									
⁽¹⁾ Submit Samples a minimum of 2 Days Prior to ACP Production									
Asphalt Content									
Ignition Method	⁽¹⁾ Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons		Review Documentation for Acceptance	
						1/JMF & Each Calendar Year.	Production Control Testing		
Ignition Method	Sampling Reducing Asphalt Content			R 97 R 47 T 308	2277	1/Sublot or Min. 1/day		Review Documentation for Acceptance	
						1/Sublot or Min. 1/day	Production Control Testing		
Mix Design Verification Testing									
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2277	A Sublot equals 1000 Tons		Review Documentation for Acceptance	
						1/Sublot	Production Control Testing		
Maximum Density Test G _{mm}	Max. Specific Gravity MAMD	TM 305		T 209	2050	1st Sublot Daily or Min. 1/Day		Review Documentation for Acceptance	
						1st Sublot Daily or Min. 1/Day	Production Control Testing		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			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 November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE								
Aggregate Production ⁽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 RAS Production (Reclaimed Asphalt Shingles)	Soundness				4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
	Abrasion	TM 208		T 104 T 96	4000			
	Degradation							
	Lightweight Pieces			T 113	4000			
	Plasticity Index			T 90				
						A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency		
				R 90 R 76 T 27/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
				T 27	4000	Contractor Provided Testing 1/500 Tons		
				R 90 R 76 T 27	1792	1 / 50 Tons	Contractor Provided Testing	Review Documentation for Acceptance
Preproduced Aggregate								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following: 1. Continuing production records meeting the above requirements of Section 00745.10 Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00745.10 Aggregate Production except change the sampling frequency to the following: a. One Per 5 sublots means "One Set of Tests Per 5000 Tons". b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)							
Mixture Acceptance - ACP "With and Without RAP"							
Gradation							
Ignition method	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing Review Documentation for Acceptance
Ignition method	Sampling Reducing Sieve analysis		R 97 R 47 T 30		2277	1/Sublot	
(Residual aggregate from AASHTO T 308)							
(1) Submit Samples a minimum of 2 Days Prior to ACP Production							
Asphalt Content							
Ignition Method	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing Review Documentation for Acceptance
Ignition Method	Sampling Reducing Asphalt Content		R 97 R 47 T 308		2277	1/Sublot or Min. 1/day	
(2) RAP Percentage	Meter Method	TM 321 (3) TM 322				1/Sublot or Minimum 1/Day	
(2) If Applicable	(2) RAP Moisture Cold Feed Moisture		T 329 T255/T265		2277		Review Documentation for Acceptance
(3) Required at start of production and if meters fail to meet specification	Readings backed by Tank measure & Production Records Daily	TM 321 (3) TM 322			2401 ACP	Daily Production	Review Documentation for Acceptance
Meter Method is required for ACP even when acceptance is by Ignition Method							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)							
Mixture Acceptance - ACP "With and Without RAP"							
A Sublot equals 1000 Tons							
Mix Design Verification Testing							
Fabrication	Gyratory Specimen	TM 326					
Maximum Density Test	Max. Specific Gravity			T 209	2050GV 2050 *5068 *2560 *5069	1/Sublot & according to Section 00745.16 (b)-1-d	Production Control Testing
Determination of G_{mb}	Bulk Specific Gravity			T 166			Review Documentation for Acceptance
Stripping Susceptibility	Tensile Strength Ratio			T 283	2050tsr	1/JMF See Section 00745.16 (b)-1-f	Production Control Testing
*Cat-II complete & submit as required, See Section 745.16(b)							Review Documentation for Acceptance
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2277	1/Sublot	
Maximum Density Test G_{mm}	Max. Specific Gravity MAMD			T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing
Performing Control Strip	Control Strip	TM 305					Review Documentation for Acceptance
Compaction	Nuclear Density	TM 306		T 355	2084 *5069 1793A	Develop Rolling Pattern See Specs. (D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2	Production Control Testing
Asphalt Cement	Compliance			R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance
(D) See T 355 YellowSheet for Density Test Locations							Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			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 and Without RAP"									
Mix Design Verification Testing									
Lime									
Latex									
Material must meet the requirements of Section 2090									
See Special Provisions for Latex Requirements									
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)	(1) % Hydrated Lime	TM 321 (2) TM 322			2277 2277	1/Sublot	Production Control Testing	Review Documentation for Acceptance	
(2) Required at start of production and if meters fail to meet specification	Readings backed by Tank Measure & Production Records Daily				2401 ACP	Daily Production	Production Control Testing	Review Documentation for Acceptance	
(1) If Applicable									
(1) See JMF for Details									
Smoothness									
Certification of Profiler Equipment Determining Profile Index Determining International Roughness Index		TM 769 TM 770 TM 772					See Special Provisions	Production Control Testing	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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 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			R 90 R 76 T 27/T 11	1792		Contractor Provided Testing	Contractor Quality Control Type E	Review Documentation for Acceptance
⁽²⁾ Perform a minimum of 3 tests, QL's required				T 176	1792		Contractor Provided Testing		
⁽³⁾ Coarse Aggregate (See Section 02690.20)	^{(1),(3)} Wood Particles ⁽³⁾ Fracture (Method 2) ^{(1),(3)} Elongated Pieces	TM 225		T 335	1792		Contractor Provided Testing 1/5 Sublots & Start of Production	Contractor Quality Control Type E	Review Documentation for Acceptance
⁽⁴⁾ Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208		T 96 T 104 T 113 T 21	4000		Minimum 1 per Project	Contractor Quality Control Type E	Review Documentation for Acceptance
	⁽³⁾ Dry Rodded Unit Weight ^{(3),(4)} Bulk Specific Gravity & Absorption			T 19 T 84 & T 85	1825 1825C 1825		Start of production and when changes in aggregate occurs	Contractor Quality Control Type E	Review Documentation for Acceptance
A Sublot equals 1000 Tons									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

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 00754 - PLAIN CONCRETE PAVEMENT REPAIR SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT SECTION 00756 - PLAIN CONCRETE PAVEMENT SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR (CONTINUED)									
Portland Cement Concrete									A Sublot equals 1000 lane feet of slip formed pavement or 100 yd ³ of non-slip formed PCC
Portland Cement Modifiers Admixtures		Materials must meet the requirements of Section 02001.10							
Curing Compounds		Material must meet the requirements of Section 02050							
Mixing Water		Material must meet the requirements of Section 02020							
Mixture	Sampling Air Content Slump Density (Unit Weight) Yield Concrete Temperature Water/Cement Ratio Batching	TM 2	T 152 T 119 T 121 T 121 T 309 T 121	3573WS or 4000C	Contractor Provided Testing - 1/sublot or Minimum 1 per Day	Visual	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
(^S) 1 Set Represents a minimum of 3 Cylinders	Strength		T 22 & T 23	4000C	(^M) (^S) 1 Set of Cylinders per sublot or Minimum 1 set per Day	Visual		Review Documentation for Acceptance	
(^M) Per Mix Design & Source		TM 769 TM 772			See Special Provisions	Production Control Testing			
Smoothness Certification of Profiler Equipment Determining IRI with an Inertial Laser Profiler					See Specs	Visual			
Thickness of Pavement	Sitting Measure	TM 775							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			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 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS									
Placement Evaluation "Retroreflectivity"									
In-Place Procedure evaluates Durable and High Performance Pavement Markings	Evaluation of Retroreflectivity Using Hand-Operated Instrument	TM 777			4101 thru 4105	See Special Provisions and Test Procedure for Testing Frequency	Visual	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		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	
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS									
Aggregate Production									
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing								Review Documentation for Acceptance
	(2)(3)(4) Sieve Analysis	R 90 R 76							
(2) Perform a minimum of 3 tests, QL's required	(4) Fineness Modulus	T 27/T 11			1792	Contractor Provided Testing	Contractor Provided Testing		
	(1)(3) Wood Particles	T 27/T 11			1792				
(3) Coarse Aggregate (See Section 02690.20)	(4) Sand Equivalent	TM 225							
	Soundness				4000				
(4) Fine Aggregate (See Section 02690.30)	Abrasion	TM 208			4000	Contractor Provided Testing	Contractor Provided Testing		
	Degradation								
	Lightweight Pieces								
	Organics								
	(3) Dry Rodded Unit Weight				1825				
	(3)(4) Bulk Specific Gravity & Absorption				1825C 1825	Minimum of 1 per Project	Minimum of 1 per Project		
Materials must meet the requirements of Section 02001.10									
Portland Cement									
Modifiers									
Admixtures									
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									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)												
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance										
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E											
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS																		
Portland Cement Concrete																		
	Sampling Slump	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.	Review Documentation for Acceptance										
	Concrete Temperature																	
	Density (Unit Weight) Yield																	
	Water/Cement Ratio																	
	Strength		T22/23	4000C														
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>																		
<p>TABLE 00512-1 Frequency of Quality Control Testing</p> <p><i>Minimum frequencies per Class of concrete based on daily production records.</i></p> <table border="1"> <thead> <tr> <th><u>Production</u></th> <th><u>Frequencies</u></th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td>1 Set each day</td> </tr> <tr> <td><u>Quantity Over 100 yd³</u></td> <td></td> </tr> <tr> <td>100 to 600 yd³ on a single day</td> <td>1 Set per each 100 yd³ or portion thereof</td> </tr> <tr> <td>over 600 yd³ on a single day</td> <td>1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>									<u>Production</u>	<u>Frequencies</u>	0 to 100 yd ³ on a single day	1 Set each day	<u>Quantity Over 100 yd³</u>		100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof	over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³
<u>Production</u>	<u>Frequencies</u>																	
0 to 100 yd ³ on a single day	1 Set each day																	
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