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 were the Special Provisions specifically calls 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 preformed 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 2018)

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 00330-EARTHWORK								
(See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures	*Gradation*					*Contractor Furnished Testing*	***Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00300***	*Review Documentation for Acceptance*
Establishing Maximum Density (for Compaction)	*Density Curve*			*T 99*	*3468*	*1/Soil type*		
	Bulk Specific Gravity			*T 85*	*3468*			
	Family of Curves			*R 75*	*3468FC*		*Visual*	
Compaction	*Deflection Testing*	*TM 158*			*1793S*	*1 Test per 3 ft. in depth*		
	Nuclear Gauge			*T 310*	*1793S*	*See Table 00330-1 Below*		*Review Documentation for Acceptance*
	Coarse Particle Correction			*T 99*				
	Deflection Testing	*TM 158*			*1793S*		*Visual*	

TABLE 00330-1 Frequency of Quality Control Testing

Individual Areas	Under 3500 yd² or yd³	Over 3500 yd² or yd³
Existing Ground Surface	1 test per 1000 yd²	1 test per 3000 yd²
Embankments	1 test per 500 yd³	1 test per 3000 yd³
Excavations and Finished Subgrade	1 test per 1000 yd²	1 test per 3000 yd²

Stone Embankment Material (See Sec. 330.16(a))	*Gradation*					*Contractor Furnished Testing*	*Visual*	*Review Documentation for Acceptance*
Compaction	*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*				*4000*	*Contractor Testing 1/Source & 1/Soil type*	*Visual*	*Review Documentation for Acceptance*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00331 - SUBGRADE STABILIZATION								*Review Documentation for Acceptance*
Aggregate backfill	*Material must meet the requirements of Section 00331.10*					*Contractor Testing*	*Visual*	
Water	*Material must meet the requirements of Section 00340*					*Contractor Testing*		
Compaction	*Material must meet the requirements of Section 00331*					*Visual*		
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*							
SECTION 00333 - AGGREGATE DITCH LINING								
Aggregate	*Sampling*			*R 90*		*1/Project or 1/Source*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Sieve Analysis			*T 27/T 11*	*1792*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00344 -TREATED SUBGRADE								
Granular Quicklime	*Sieve Analysis*			*T 27*	*4000*	*Contractor Testing 1/Source*	*Manufacture Compliance Statement*	*Review Documentation for Acceptance*
	Calcium Hydroxide Content in lime			*T 219*	*4000*			
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)*						*Manufacture Compliance Statement*	
Portland Cement	*Material must meet the requirements of Section 02010*							
Water	*Material must meet the requirements of Section 00340*							
Establishing Maximum Density (for Compaction)	*Density Curve*				*3468*	*See Special Provisions and Table 00344-1 Below*	*Visual*	
	Maximum Specific Gravity							
Compaction	*Deflection Testing*	*TM 158*			*1793S*			
	Deflection Testing	*TM 158*						
	Nuclear Gauge			*T 310*	*1793S*			*Review Documentation for Acceptance*
	Coarse Particle Correction			*T 99*				

TABLE 00344-1 Frequency of Quality Control Testing

Individual Areas	Under 3500 yd²	Over 3500 yd²
Finished Subgrade	1 test per 1000 yd²	1 test per 3000 yd²

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00360 - Drainage Blankets								
						A sublot equals 1000 Tons		
Granular Drainage Blanket	*Sampling*			*R 90*		*1/sublot minimum 1/Source per Project*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Gradation			*T 27/T 11*	*1792*			
Sand Drainage Blanket	*Sampling*			*R 90*				
	Reducing			*R 76*				
	Gradation			*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	*TM 158*			*1793S*	*See Table 00360-1 Below*	*Visual*	*Review Documentation for Acceptance*
	Nuclear Gauge			*T 310*				
	Coarse Particle Correction			*T 99*	*1793S*			

TABLE 00360-1 Frequency of Quality Control Testing

Individual Areas	Under 3500 yd²	Over 3500 yd²
Existing Ground Surface	1 test per 1000 yd²	1 test per 3000 yd²
Finished Surfaces	1 test per 1000 yd²	1 test per 3000 yd²

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00390 - RIPRAP PROTECTION								
Fill Material & Riprap	*Gradation*					*Contractor Furnished Testing*	*Visual*	*Review Documentation for Acceptance*
	See 00390.11(c)1							
	Degradation	*TM 208*			*4000*	*Contractor Furnished Testing*	*Provide History of Passing Tests*	
	Soundness			*T 104*				
	Apparent Specific Gravity & Absorption			*T 85*	*1825*			
Filter Blanket	*Gradation*					*Contractor Testing When Required*	*Visual*	
	See 00390.13							
Grouted Riprap								
Sand	*Sampling*			*R 90*		*1/Project*	*Visual*	
	Reducing			*R 76*				
	Sieve Analysis			*T 27/T 11*	*1792*			
	Soundness			*T 104*	*4000*	*Contractor Furnished Testing*	*Provide History of Passing Tests*	
	Lightweight Pieces			*T 113*				
Portland Cement	*Material must meet the requirements of Section 02010*							*Review Documentation for Acceptance*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00396 -SHOTCRETE SLOPE STABILIZATION								
Aggregate Production and Mixture						*A Sublot equals 1000 Tons*		
(1) QAE may waive after 5 sublots/shifts	*Sampling*			*R 90*		*1/Sublot & Start of Production*	*Provide History of Passing Tests*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	(2)(3) Sieve Analysis			*T 27/T 11*	*1792*			
	(3) Fineness Modulus			*T 27/T 11*				
(2) Coarse Aggregate (See Section 02690.20)	*(1)(2) Wood Particles*	*TM 225*						
	(3) Sand Equivalent			*T 176*				
(3) Fine Aggregate (See Section 02690.30)	*Soundness*			*T 104*	*4000*	*Contractor Furnished Testing*	*Provide History of Passing Tests*	
	Abrasion			*T 96*				
	Degradation	*TM 208*						
	Lightweight Pieces			*T 113*				
	Organics			*T 21*				
	(2) Dry Rodded Unit Weight			*T 19*		*Start of production and when changes in aggregate occurs*	*Start of production and when changes in aggregate occurs*	
	(2)(3) Bulk Specific Gravity & Absorption			*T 84 & T 85*				
Portland Cement	*Material must meet the requirements of Section 02010*							
Admixtures	*Material must meet the requirements of Section 02040*							
Mixing Water	*Material must meet the requirements of Section 02020*							
Production Testing (See Section 00396.14)	*(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*	
(S) 3 Cores minimum per Panel								
Compression Test Cores	*Strength*			*T 22*	*4000C*	*1/Set Cores per Test panel*	*1/Set Cores per Test panel*	*Review Documentation for Acceptance*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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								*Review Documentation for Acceptance*
TRENCH FOUNDATION -- Excavation below grade only							***Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00400***	
Selected general backfill	*Material must meet the requirements of Section 00330.13*					*Contractor Furnished Testing*		
Selected granular backfill	*Material must meet the requirements of Section 00330.14*							
Selected stone backfill	*Material must meet the requirements of Section 00330.15*							
Other approved material	*Material must meet the requirements of Section 00405.11*						*Visual*	
Establishing Maximum Density	*Density Curve*			*T 99*	*3468*	*1/Soil Type or Aggregate Gradation*	*Visual*	
	Bulk Specific Gravity			*T 85*	*3468*			
	Family of Curves			*R 75*	*3468FC*			
Compaction	*Nuclear Gauge*			*T 310*	*1793S*	*1 Test per 300 ft. of Trench*	*Visual*	*Review Documentation for Acceptance*
	Coarse Particle Correction			*T 99*				
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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)								
Bedding								
3/8" - 0 PCC fine aggregate (See Section 02690.30(h))	*Sampling* *Reducing* *Sieve Analysis*			*R 90* *R 76* *T 27/T 11*	*1792*	*Contractor Provided Testing*	*Visual*	*Review Documentation for Acceptance*
Commercial 3/4" - 0 Aggregate						*Contractor Provided Testing*	*Visual*	
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	*Sampling* *Reducing* *Sieve Analysis*			*R 90* *R 76* *T 27/T 11*	*1792*	*Contractor Provided Testing*	*Visual*	
Reasonably well graded sand, maximum 3/8" to dust						*Contractor Provided Testing*	*Visual*	
Commercial available 3/8"-0 or No.10 - 0 sand						*1 per Sublot*	*Visual*	
Continuous cradle of Commercial Grade Concrete	*Material must meet the requirements of Section 00440*					*Contractor Provided Testing*	*Visual*	*Review Documentation for Acceptance*

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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
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* *R 76* *T 27*	 *1792*	*Contractor Provided Testing*	Visual	*Review Documentation for Acceptance*
Rigid Pipe: Commercial 1"- 0 or 3/4" - 0 Aggregate						*Contractor Provided Testing*	*Visual*	
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Density Curve* *Bulk Specific Gravity* *Coarse Particle Correction*			(1) *T 99* *T 85* *T 99*	*3468* *3468*	*1/Source or Aggregate Gradation*	*Visual*	
Compaction	*Nuclear Gauge*			*T 310*	*1793B*	*1 test per 100 ft. of Trench and every 2.0 ft. of Fill*	*Visual*	*Review Documentation for Acceptance*
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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)								
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*							
Class C Backfill - Clean sand with 100% minus 1/4" material								
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine								
Class E Backfill - Controlled Low Strength Material (CLSM)	*Material must meet the requirements of Section 00442*					*Contractor Provided Testing*	*Visual*	
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Density Curve* *Bulk Specific Gravity* *Family of Curves*			(1) *T 99* *T 85* *R 75*	*3468* *3468* *3468FC*	*1/Soil Type or Aggregate Gradation*		
Compaction (C) Density testing is based on cumulative lineal meters or feet of pipe placement.	*Nuclear Gauge* *Coarse Particle Correction*			*T 310* *T 99*	*1793S or 1793B*	(C) *1 test per 100 ft. of Trench and every 2.0 ft. of Fill*	*Visual*	*Review Documentation for Acceptance*
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00430 - SUBSURFACE DRAINS								
Granular Drain Backfill Material						A Sublot equals 1000 Tons		
	Sampling			*R 90*		*Contractor Provided Testing*	*Visual*	Review Documentation for Acceptance
	Reducing			*R 76*				
	Sieve Analysis			*T 27*	*1792*			
	Abrasion			*T 96*				
	Degradation	*TM 208*			*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	
Special Filter Material								
See Section 00430.46(a)	*Compaction*	See section 405 for compaction requirements						
SECTION 00440 - COMMERCIAL GRADE CONCRETE								
Mixture	*Sampling*		*TM 2*					
	Air Content			*T 152*				
	Density (Unit Weight)			*T 121*	*3573WS or 4000C*	*(S) 1 per each set of cylinders*	*Contractor Provided Testing*	
	Slump			*T 119*				
	Concrete Temperature			*T 309*				
Modifiers	*Material must meet the requirements of Section 02030*						*Manufacture Compliance Statement*	
Admixtures	*Material must meet the requirements of Section 02040*							
Portland Cement	*Material must meet the requirements of Section 02010*							
Structural Items	*Strength*			*T 22 & T 23*	*4000C*	*(M) (S) 1 Set / Day Minimum*	*Contractor Provided Testing*	
Except Visual Acceptance Items (See section 00440.14(a))	*Strength*			*T 22 & T 23*	*4000C*	*(M) (S) 1 Set/20 yd³ 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-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)								
CLSM Mixture	*Mix Proportions* *Trial Batch* *Strength*			*T 22 & T 23*	*4000C*	1/Project or Source	*Contractor Provided Testing*	Review Documentation for Acceptance
Modifiers	*Material must meet the requirements of Section 02030*						*Manufacture Compliance Statement*	Review Documentation for Acceptance
Admixtures	*Material must meet the requirements of Section 02040*							
Portland Cement	*Material must meet the requirements of Section 02010*							
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405								
Trench Work								
Excavation, bedding, pipe zone and trench backfill	See Section 00405 for pipes less than 72"					*Contractor Provided Testing*	*Contractor Provided Testing*	Review Documentation for Acceptance
Excavation, bedding, pipe zone and trench backfill	See Section 00510 for pipes greater than 72"							
Concrete Blocks	Material must meet the requirements of Section 00440							

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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
SECTION 00450 - STRUCTURAL PLATE PIPE, PIPE ARCH AND ARCH								
Commercial Grade Concrete in appurtenances	*Material must meet the requirements of Section 00440*					*Contractor Provided Testing*	*Contractor Provided Testing*	Review Documentation for Acceptance
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*						*Visual*	
Establishing Maximum Density	*Density Curve*			*(1) T 99*		*Contractor Provided Testing*	*Visual*	
(1) Method "A"	*Bulk Specific Gravity Coarse Particle Correction*	*TM 223*		*T 85*	*3468 B*			
Compaction	*Nuclear Gauge*			*T 310*	*1793 B*	*Contractor Provided Testing*	*Visual*	
Structure Backfill (Section 00450.46)	*Material and Operation must meet the requirements of Section 00510.48(d)*							Review Documentation for Acceptance
SECTION 00459 - CAST IN PLACE CONCRETE PIPE								
Concrete	*Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17*					*Contractor Provided Testing*	*Contractor Provided Testing*	Review Documentation for Acceptance
Backfill Material	*Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46*					*Contractor Provided Testing*	*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
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*					*Contractor Provided Testing*	*Visual*	Review Documentation for Acceptance
Base Drain Backfill	*Material must meet the requirements of Section 00470.17*							
Excavation, Backfill and Foundation Stabilization	*Material must meet the requirements of Section 00405*							
SECTION 00480 - DRAINAGE CURBS								
Commercial Grade Concrete	*Material must meet the requirements of Section 00440*					*Contractor Provided Testing*	*Visual*	Review Documentation for Acceptance
Dense Graded HMAC 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		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES								
Commercial Grade Concrete	*Material must meet the requirements of Section 00440*					*Contractor Provided Testing*	*Visual*	Review Documentation for Acceptance
High Early Strength Concrete	*Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11*							
Backfill Operations	*Backfill Excavations according to section 405*							
Filling Abandoned Pipes, Manholes and Catch Basins (See section 00490.44)								
Backfill Operations (Roadway)	*Material must meet the requirements of Section 2630*					*Contractor Provided Testing*	*Visual*	Review Documentation for Acceptance
Establishing Maximum Density	*Density Curve*			*(1) T 99*	*3468 B*			
(1) Method "A"	*Bulk Specific Gravity Coarse Particle Correction*	*TM 223*		*T 85*				
Compaction	*Nuclear Gauge*			*T 310*	*1793B*	*1 Test per 100 ft. and every 1.5' of Fill*	*Visual*	
Backfill Operations Landscaped or Unimproved Roadways	*Material must meet the requirements of Section 00330.13*					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						Contractor Provided Testing	*Visual*	Review Documentation for Acceptance
Resurfacing Materials	*See Section 00495.40 for Material Requirements*							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00510 - STRUCTURE EXCAVATION AND BACKFILL								
Soils, Soil/Aggregate Mixtures and Graded Aggregates								
						A Sublot equals 1000 Tons		
Granular Structure Backfill (See Section 02630.10)	*Sampling*			*R 90*		*1/Sublot (Minimum 1/Project)*	***Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00500***	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	(1) Sieve Analysis			*T 27*				
(1) Perform a minimum of 3 tests QL's required	*Fracture (Method 1)*			*T 335*	*1792*			
	Sand Equivalent			*T 176*				
Product Compliance	*Abrasion*			*T 96*				
	Degradation	*TM 208*			*4000*	*Contractor Provided Testing*	*Minimum 1 per Project*	
Establishing Maximum Density	*Density Curve*			*(2) T 99*	*3468*	*1/Soil type or Aggregate Gradation*	*Visual*	
(2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Bulk Specific Gravity*			*T 85*				
	Coarse Particle Correction			*T 99*	*3468*			*Review Documentation for Acceptance*
Compaction	*Nuclear Gauge*			*T 310*	*1793B*	*Min of 1 per lift*	*Visual*	
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)								
Soils, Soil/Aggregate Mixtures and Graded Aggregates						A Sublot equals 1,000 Tons		
Granular Wall Backfill (See Section 02630.11)	*Sampling*			*R 90*		*1/Sublot (Minimum 1/Project)*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	(1) Sieve Analysis			*T 27*	*1792*			
	Fracture (Method 2)			*T 335*				
(1) Perform a minimum of 3 tests QL's required								
Product Compliance	*Abrasion*			*T 96*	*4000*	*Contractor Provided Testing*	*Minimum 1 per Project*	
	Degradation	*TM 208*						
(2) Compaction	*(2) Deflection Testing*	*TM 158*			*1793B*	*1/Sublot (Minimum 1/Project)*	*Visual*	*Review Documentation for Acceptance*
Note: Compaction must meet the requirements of section 00330.43c	***Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.***							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00512 - DRILLED SHAFTS								
Aggregate Production						A Sublot equals 1000 Mg or 1000 Tons		
(1) QAE may waive after 5 sublots/shifts	*Sampling*			*R 90*		*Contractor Provided Testing*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	(2)(3)(4) Sieve Analysis			*T 27/T 11*	*1792*			
	(4) Fineness Modulus			*T 27/T 11*				
(2) Perform a minimum of 3 tests, QL's required	*(1)(3) Wood Particles*	*TM 225*						
	(4) Sand Equivalent			*T 176*				
(3) Coarse Aggregate (See Section 02690.20)	*Soundness*			*T 104*	*4000*	*Contractor Provided Testing*	*Contractor Provided Testing*	
	Abrasion			*T 96*				
	Degradation	*TM 208*						
	Lightweight Pieces			*T 113*				
(4) Fine Aggregate (See Section 02690.30)	*Organics*			*T 21*	*4000*			
	(3) Dry Rodded Unit Weight			*T 19*	*1825 1825C*	*Minimum of 1 per Project*	*Minimum of 1 per Project*	
	(3)(4) Bulk Specific Gravity & Absorption			*T 84 & T 85*	*1825*			
Portland Cement Modifiers Admixtures	*Materials must meet the requirements of Section 02001.10*						*Manufacture Compliance Statement*	
Drilling Slurry	*Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)*						*Contractor Provided Testing*	
Grout	*Material must meet the requirements of Section 02080*						*Manufacture Compliance Statement*	*Review Documentation for Acceptance*
Mixing Water	*Material must meet the requirements of Section 02020*							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00512 - DRILLED SHAFTS (CONTINUED)								
Portland Cement Concrete								
	Sampling		*TM 2*					
	Slump			*T 119*				
	Concrete Temperature			*T 309*	*3573WS or 4000C*	*(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.*	*(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.*	*Review Documentation for Acceptance*
	Density (Unit Weight)			*T 121*				
	Yield			*T121*				
	Water/Cement Ratio			*T 121*				
	Strength			*T22/23*	*4000C*			

(S) 1 Set Represents a minimum of 3 Cylinders

(M) Per Mix Design & Source

TABLE 00512-1 Frequency of Quality Control Testing

Minimum frequencies per Class of concrete based on daily production records.

Production	Frequencies
0 to 100 yd³ on a single day	1 Set each day
Quantity Over 100 yd³	
100 to 600 yd³ on a single day	1 Set per each 100 yd³ or portion thereof
over 600 yd³ on a single day	1 Set per each 200 yd³ or portion thereof after reaching 600 yd³

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	ASTM	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
SECTION 00535 - RESIN BONDED ANCHOR SYSTEMS									
Anchor Systems									
						A Sublot equals 50 Anchors			
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)	*Materials must meet the requirements of Section 00535.10*								
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 2018)						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 00540 - CONCRETE BRIDGES								
Aggregate Production						A Sublot equals 1000 Mg or 1000 Tons		
(1) QAE may waive after 5 sublots/shifts	*Sampling*			*R 90*		*Contractor Provided Testing*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(2) Perform a minimum of 3 tests	*(2)(3)(4) Sieve Analysis*			*T 27/T 11*	*1792*			
	(4) Fineness Modulus			*T 27/T 11*				
	(1)(3) Wood Particles	*TM 225*						
	(4) Sand Equivalent			*T 176*				
(3) Coarse Aggregate (See Section 02690.20)								
	Soundness			*T 104*	*4000*	*Minimum 1 per Project*	*Minimum 1 per Project*	
	Abrasion			*T 96*				
(4) Fine Aggregate (See Section 02690.30)	*Degradation*	*TM 208*						
	Lightweight Pieces			*T 113*				
	Organics			*T 21*				
	(3) Dry Rodded Unit Weight			*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*			
Portland Cement Modifiers Admixtures	*Materials must meet the requirements of Section 02001.10*						*Manufacture Compliance Statement*	
Mixing Water	*Material must meet the requirements of Section 02020*							*Review Documentation for Acceptance*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00540 - CONCRETE BRIDGES (CONTINUED)								
Portland Cement Concrete								
	Sampling		*TM 2*					
	Air Content			*T 152*				
	Slump			*T 119*	*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*
	Concrete Temperature			*T 309*				
	Density (Unit Weight)			*T 121*				
	Yield			*T121*				
	Water/Cement Ratio			*T 121*				
	Strength			*T22/23*	*4000C*			

(S) 1 Set Represents a minimum of 3 Cylinders

(M) Per Mix Design & Source

TABLE 00540-1 Frequency of Quality Control Testing

Minimum frequencies per Class of concrete based on daily production records.

Production	Frequencies
0 to 100 yd³ on a single day	1 Set each day
Quantity Over 100 yd³	
100 to 600 yd³ on a single day	1 Set per each 100 yd³ or portion thereof
over 600 yd³ on a single day	1 Set per each 200 yd³ or portion thereof after reaching 600 yd³

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 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 (Revised November 2018)						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 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS								
Aggregate Production						*A Sublot equals 500 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 500 Tons.)*		
(1) QAE may waive after 5 sublots/shifts	*Sampling*			*R 90*		*Contractor Provided Testing*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(2) Perform a minimum of 3 tests, QL's required	*(2)(3)(4) Sieve Analysis*			*T 27/T 11*	*1792*			
	(4) Fineness Modulus			*T 27/T 11*				
	(4) Sand Equivalent			*T 176*	*1792*			
(3) Coarse Aggregate (See Section 02690.20 & 00559.10)	*(1)(3) Elongated Pieces*	*TM 229*			*1792*			
	(1)(3) Wood Particles	*TM 225*						
(4) Fine Aggregate (See Section 02690.30 & 00559.10)								
	Abrasion			*T 96*	*4000*	*Minimum 1 Per Project*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Soundness			*T 104*				
	Lightweight Pieces			*T 113*				
	Organics			*T 21*	*4000*			
	(3) Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*	*Start of production and when changes in aggregate occurs*	
	(3)(4) Bulk Specific Gravity & Absorption			*T 84 & T 85*	*1825*			
Portland Cement *Modifiers* *Admixtures*	*Materials must meet the requirements of Section 02001.10*						*Manufacture Compliance Statement*	*Review Documentation for Acceptance*
Mixing Water	*Material must meet the requirements of Section 02020*							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS (CONTINUED)								
SFC AND LMC						*A sublot equals 1 set of tests per 50 yd3*		
	Sampling		*TM 2*					
	Air Content			*T 152*				
	Slump			*T 119*	*3573WS or 4000 C*	*1 / Sublot or Minimum 1 per Shift*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	Concrete Temperature			*T 309*				
	Density (Unit Weight)			*T 121*				
	Yield			*T121*				
	W/C Ratio			*T 121*				
Latex Modified Concrete	*Fine Aggregate Moisture*			*T 255 / T 265*	*1792*	*Contractor Provided Testing*	*Contractor Provided Testing*	
	Mixer Calibration							
(M) Per Mix Design & Source								
SFC and LMC	*Strength*			*T 22 & T 23*	*4000C*	*(M) (S) 1 Set Cylinders per 50yd3 Minimum 1 set/shift*	*(M) (S) 1 Set Cylinders per 50yd3 Minimum 1 set/shift*	*Review Documentation for Acceptance*
(S) 1 Set Represents a minimum of 3 Cylinders								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS								
Aggregate Production								
Gravel Leveling Pads Backfill (See Section 02630.10)	*Abrasion*			*T96*	*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	A Sublot equals 1,000 Tons Minimum 1/Project							
	Sampling			*R 90*		*1/Sublot*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Sieve Analysis			*T 27*	*1792*			
	Sand Equivalent			*T 176*				
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*		
	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project							
(3) Modular Block Core and Drainage Backfill (Product Compliance)	*Soundness*			*T 104*	*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
	Abrasion			*T 96*				
	Degradation	*TM 208*						
	Lightweight Pieces			*T 113*	*4000*			
(3) (See Section 2690.20(a) thru 2690.20(e) & 2690.20(g)								
	A Sublot equals 1,000 Tons							
(3) Modular Block Core and Drainage Backfill	*Sampling*			*R 90*		*1/Sublot or Minimum 1 Per Project*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	(2) Sieve Analysis			*T 27/T 11*	*1792*			
(1) QAE may waive after 5 sublots/shifts	*(1) Wood Particles*	*TM 225*						
	Fracture (Method 2)			*T 335*				
	Elongated Pieces	*TM 229*			*1792*			
(2) Perform a minimum of 3 tests, QL's required								
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	*Abrasion*			*T 96*	*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Sieve Analysis			*T27*	*4000*	*1/Sublot*	*Visual*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS									
Aggregate Production					Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project				
Gabion Basket Fill *(Product Compliance)* *(See Section 00390.11(b))*	*Degradation*	*TM 208*			*4000*	*Contractor Provided Testing*	*Minimum 1 per Project*	*Review Documentation for Acceptance*	
	Soundness			*T 104*					
	Apparent Specific Gravity & Absorption			*T 85*	*1825*				
	Gradation					*1/Sublot (Minimum 1/Project)*	*Visual*		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00596A - MSE RETAINING WALLS								
Aggregate Production						Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project		
MSE Granular Wall Backfill (Product Compliance) (Also reference 02630.10)	*Abrasion*			*T96*	*4000*	*Contractor Provided Testing*	*Minimum 1 per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Sieve Analysis			*T 11*				
	Plasticity Index			*T 90*				
	pH			*T 289*				
	Resistivity			*T 288*				
	Organic Content			*T 267*	*4000*			
						A Sublot Equals or 2000 Tons		
MSE Granular Wall Backfill	*Sampling*			*R 90*		*1/Sublot (Minimum 1/Project)*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(1) Perform a minimum of 3 tests, QL's required	*(1) Sieve Analysis*			*T 27*	*1792*			
	Sand Equivalent			*T 176*				
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*	*Visual*	
Placement								
Establishing Maximum Density	*Density Curve*			*(2) T 99*	*3468*	*1/Aggregate Gradation/Per Source*	*Visual*	
(2) Method A	*Bulk Specific Gravity*			*T 85*				
	Coarse Particle Correction	*TM 223*			*3468*			
Compaction	*Nuclear Gauge*			*T 310*	*1793B*	*1/100 yd³ (Minimum 1/day)*	*Visual*	*Review Documentation for Acceptance*
	Deflection Testing	*TM 158*			*1793B*	*1 per layer*	*Visual*	
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 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			
	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*	*Visual*	
					Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project			
(3) Modular Block Core and Drainage Backfill *(Product Compliance)* *(3) (See Section 2690.20(a) thru 2690.20(e) & 2690.20(g)*	*Soundness* *Abrasion* *Degradation* *Lightweight Pieces*	*TM 208*		*T 104* *T 96* *T 113*	*4000* *4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
					A Sublot equals 1000 Tons			
(3) Modular Block Core and Drainage Backfill *(1) QAE may waive after 5 sublots/shifts* *(2) Perform a minimum of 3 tests, QL's required*	*Sampling* *Reducing* *(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 (Minimum 1 Per Project)*	*Visual*	*Review Documentation for Acceptance*
Pipe Drain Backfill *(Product Compliance)* *(See Section 00430.11)*	*Abrasion* *Degradation*	*TM 208*		*T 96*	*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
	Sieve Analysis			*T27*	*4000*	*1/Sublot*	*Visual*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00596B - PREFABRICATED MODULAR RETAINING WALLS								
Aggregate Production					Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project			
Gabion Basket Fill *(Product Compliance)* *(See Section 00390.11(b))*	*Degradation*	*TM 208*			*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
	Soundness			*T 104*				
	Apparent Specific Gravity & Absorption			*T 85*	*1825*			
	Gradation					*1/Sublot*	*Visual*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00596B - PREFABRICATED MODULAR RETAINING WALLS								
Aggregate Production					Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project			
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	*Abrasion*			*T96*	*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Sieve Analysis			*T 11*				
	Plasticity Index			*T 90*	*4000*			
					A Sublot Equals 2000 Tons			
Retaining Wall Granular Backfill	*Sampling*			*R 90*		*1/Sublot (Min. 1 Per Project)*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(1) Perform a minimum of 3 tests, QL's required	*(1) Sieve Analysis*			*T 27*	*1792*			
	Sand Equivalent			*T 176*				
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*	*Visual*	
Placement								
Establishing Maximum Density	*Density Curve*			*(2) T 99*	*3468*	*1/Aggregate Gradation/Per Source*	*Visual*	*Review Documentation for Acceptance*
(2) Method A	*Bulk Specific Gravity*			*T 85*				
	Coarse Particle Correction	*TM 223*			*3468*			
Compaction	*Nuclear Gauge*			*T 310*	*1793B*	*1/100 yd³ (Minimum 1/day)*	*Visual*	
	Deflection Testing	*TM 158*			*1793B*	*1 per layer*	*Visual*	
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 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*	*TM 208*		*T96*	*4000*	*Contractor Provided Testing*	*Minimum 1 Per Project*	*Review Documentation for Acceptance*	
	Sieve Analysis			*T 11*					
	Plasticity Index			*T 90*	*4000*				
					A Sublot Equals 2000 Tons				
Retaining Wall Granular Backfill	*Sampling*			*R 90*		*1/Sublot*	*Visual*	*Review Documentation for Acceptance*	
	Reducing			*R 76*					
(1) Perform a minimum of 3 tests, QL's required	*(1) Sieve Analysis*			*T 27*	*1792*				
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*	*Visual*		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS									
Placement									
Retaining Wall Granular Backfill									
Establishing Maximum Density	*Density Curve*			*(1) T 99*	*3468*			*Review Documentation for Acceptance*	
(1) Method A	*Bulk Specific Gravity*			*T 85*		*1/Aggregate Gradation/Per Source*	*Visual*		
	Coarse Particle Correction	*TM 223*			*3468*				
Compaction	*Nuclear Gauge*			*T 310*	*1793B*	*1/100 yd^3 (Minimum 1/day)*	*Visual*		
	Deflection Testing	*TM 158*			*1793B*	*1 per layer*	*Visual*	*Review Documentation for Acceptance*	
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00635 - GRID-ROLLED AGGREGATE SUBBASE								
Aggregate Subbase							***Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00600***	*Review Documentation for Acceptance*
Grading	Abrasion			*T 96*	*4000*	*Contractor Provided Testing*		
(See 00635.10)								
	Sampling			*R 90*		*Contractor Provided Testing*		
	Reducing			*R 76*				
	Sieve Analysis			*T 27*	*1792*			*Review Documentation for Acceptance*
	Sand Equivalent			*T 176*				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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								*Review Documentation for Acceptance*
Aggregate Production	*Abrasion*			*T 96*	*4000*	*Contractor Provided Testing*	Submit Required Documentation	
Aggregate Subbase								
Grading	*Sampling*			*R 90*		*Contractor Provided Testing*	Submit Required Documentation	
(See 00641.10(b))	*Reducing*			*R 76*				
	Sieve Analysis			*T 27*	*1792*			*Review Documentation for Acceptance*
	Sand Equivalent			*T 176*				
Aggregate Base and Shoulders	*Abrasion*				*4000*	*Minimum 1 per Project*	Submit Required Documentation	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
Grading					*A Sublot equals 2000 Tons*			
Aggregate Base (See 02630)	*Sampling*			*R 90*		*Contractor Provided Testing*	Submit Required Documentation	*Review Documentation for Acceptance*
Aggregate Shoulder (See 02640)	*Reducing*			*R 76*				
Open Graded Aggregate Base	*(1) Sieve Analysis*			*T 27*	*1792*			
(See 02630.11)	*(2) Sand Equivalent*			*T 176*				
(1) Perform at least 3 tests						*Contractor Provided Testing*		*Review Documentation for Acceptance*
(2) May be waived by QAE	*Fracture (Method 1)*			*T 335*	*1792*			
PLACEMENT								
Aggregate Base					*A Sublot equals 2000 Tons*			
Plant Mix Applications Only								
Aggregate (Mixture)	*Sampling*			*R 90*		*1/Sublot or minimum 1per day*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Moisture			*T 255 & T 265*	*1792*			
Establishing Maximum Density & Optimum Moisture (Mix Design)	*Density Curve*			*(3) T 99*				
	Coarse Particle Correction	*TM 223*			*3468*	*Each Size Per Source*	*Visual*	
(3) Method A	*Bulk Specific Gravity*			*T 85*				
Compaction							*Visual*	*Review Documentation for Acceptance*
(D) (Individual tests must meet Specification)	*Deflection Testing*	*TM 158*			*1793B*	*1 per Sublot*	*Visual*	*Review Documentation for Acceptance*
	Nuclear Gauge			*T310*	*1793B*	*(D) 5 Tests Per Sublot*	*Visual*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 (Continued)								
Placement								
Aggregate Subbase								*Review Documentation for Acceptance*
Compaction	*Deflection Testing*	*TM 158*			*1793 B*	*1 per Layer*	*Visual*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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*			*T 96*	*4000*	*Minimum 1 per Source/Project*	*Visual*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
					A Sublot equals 2,000 Tons			
	Sampling							
[1] Perform at least 3 tests	*Reducing*			*R 76*		*Contractor Provided Testing*	*Visual*	*Review Documentation for Acceptance*
[2] *May be waived by QAE*	[1] *Sieve Analysis*			*T 27*	*1792*			
	[2] *Sand Equivalent*			*T 176*				
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*	Visual	
Aggregate (Sanding Aggregate)								
					A Sublot equals 1000 Tons			
	Sampling			*R 90*		*Contractor Provided Testing*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Sieve Analysis			*T 27*	*1792*			
[3] *May be waived by QAE*	[3] *Cleanness Value*	*TM 227*						
	Abrasion			*T 96*	*4000*	*Minimum 1 per Source/Project*	Visual	
	Degradation	*TM 208*						
	Lightweight Pieces			*T 113*	*4000*			
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots & Start of Production*	Visual	*Review Documentation for Acceptance*
	Elongated Pieces	*TM 229*						
	Wood Particles	*TM 225*			*1792*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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					*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*			
(See Sections 00705, 00706, 00710, 00711, 00712 and 00715)	*Abrasion*			*T 96*	*4000*	*Minimum 1 per Source/Project*	Visual	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Soundness			*T 104*				
	Lightweight Pieces			*T 113*				
[1] QAE may waive after 5 sublots/shifts	*Dry Rodded Unit Weight*			*T 19*	*4000*			
	Sampling			*R 90*		*Contractor Provided Testing*	Visual	
	Reducing			*R 76*				
[2] QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated	*[5] Fracture*			*T 335*	*1792*			
	[1] Wood Particles	*TM 225*						
	[1][4] Elongated Pieces	*TM 229*						
	[2] Sieve Analysis			*T27/T 11*				
[3] May be waived by QAE	*[3] Cleanness Value*	*TM 227*			*1792*			
	Dry Rodded Unit Weight			*T 19*	1825 1825C	*Start of production and when changes in aggregate occurs*	Visual	
[4] Not required for Dry Key Material								
[5] 1/5 Sublots & Start of Production								*Review Documentation for Acceptance*
Aggregate (Other)		*Use sampling and testing frequencies required for proposed end product use*						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00705 - ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT								
Aggregate Cover Material						*A sublot equals 1000 Tons. A minimum 1 per shift*		
Aggregate Production	*Sampling*			*R 90*		*Provide Process Control*	***Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00700***	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Sieve Analysis			*T 27*	*1792*			
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						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*		
	Sampling			*R 90*		*Provide Process Control*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Sieve Analysis			*T 27/T 11*	*1792*			
Emulsified Asphalt Cement								
Emulsified Asphalt *Polymer Modified Emulsion*	*Compliance*				*4000*	*Provide Suppliers Certificate of Compliance*	*Visual*	
Additives *Mineral Filler*	*Material must meet the requirements of Section 00706.13*						*Visual*	
Mixture	*Material must meet the requirements of Section 00706.16*						*Visual*	*Review Documentation for Acceptance*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT								
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*		
	Abrasion			*T 96*	*4000*	*Contractor Provided Testing*	*Contractor Provided Testing Minimum 1 per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Soundness			*T 104*				
	Lightweight Pieces			*T 113*				
	Dry Rodded Unit Weight			*T 19*	*4000*			
(1) QAE may waive after 5 sublots/shifts								
	Sampling			*R 90*		*1 per Sublot*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(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	*(5) Fracture*			*T 335*	*1792*			
	(1) Wood Particles	*TM 225*						
	(1)(4) Elongated Pieces	*TM 229*						
	(2) Sieve Analysis			*T27/T 11*				
(3) May be waived by QAE	*(3) Cleanness Value*	*TM 227*			*1792*			
	Dry Rodded Unit Weight			*T 19*	*1825*	*Start of production and when changes in aggregate occurs*	Visual	
					1825C			
(4) Not required for Dry Key Material								
(5) 1/5 Sublots & Start of Production								
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 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 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT								
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*		
	Abrasion			*T 96*	*4000*	*Contractor Provided Testing*	*Contractor Provided Testing Minimum 1 per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Soundness			*T 104*				
	Lightweight Pieces			*T 113*				
	Dry Rodded Unit Weight			*T 19*	*4000*			
(1) QAE may waive after 5 sublots/shifts	*Sampling*			*R 90*		*1 per Sublot*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(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	*(5) Fracture*			*T 335*	*1792*			
	(1) Wood Particles	*TM 225*						
	(1)(4) Elongated Pieces	*TM 229*						
	(2) Sieve Analysis			*T27/T 11*				
(3) May be waived by QAE	*(3) Cleanness Value*	*TM 227*			*1792*			
	Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*	Visual	
(4) Not required for Dry Key Material								
(5) 1/5 Sublots & Start of Production								
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 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 2018)						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						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*		
Meter Method	*Readings backed by Tank Measure & Production Records Daily*	*TM 321* [(1)] *TM 322*			*2277*	*1/Sublot or Min. 1/Day*	*Production Control Testing*	*Review Documentation for Acceptance*
					2043 and 2401	*Daily Production*	*Production Control Testing*	
[(1)] ***Required at start of production and if meters fail to meet specification***	*Cold Feed Moisture*			T 255/265	*2277*	*1/Sublot or Min. 1/Day*	*Production Control Testing*	
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*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT								
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*		
	Abrasion			*T 96*	*4000*	*Contractor Provided Testing*	*Contractor Provided Testing Minimum 1 per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Soundness			*T 104*				
	Lightweight Pieces			*T 113*				
	Dry Rodded Unit Weight			*T 19*	*4000*			
(1) QAE may waive after 5 sublots/shifts	*Sampling*			*R 90*		*1 per Sublot*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(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	*(5) Fracture*			*T 335*	*1792*			
	(1) Wood Particles	*TM 225*						
	(1)(4) Elongated Pieces	*TM 229*						
	(2) Sieve Analysis			*T27/T 11*				
(3) May be waived by QAE	*(3) Cleanness Value*	*TM 227*			*1792*			
	Dry Rodded Unit Weight			*T 19*	*1825*	*Start of production and when changes in aggregate occurs*	Visual	
					1825C			
(4) Not required for Dry Key Material								
(5) 1/5 Sublots & Start of Production								
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 2018)						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 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT								
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*		
	Abrasion			*T 96*	*4000*	*Contractor Provided Testing*	*Contractor Provided Testing Minimum 1 per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Soundness			*T 104*				
	Lightweight Pieces			*T 113*				
	Dry Rodded Unit Weight			*T 19*	*4000*			
(1) QAE may waive after 5 sublots/shifts								
	Sampling			*R 90*		*1 per Sublot*	*Visual*	
	Reducing			*R 76*				
(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	*(5) Fracture*			*T 335*	*1792*			
	(1) Wood Particles	*TM 225*						
	(1)(4) Elongated Pieces	*TM 229*						
	(2) Sieve Analysis			*T27/T 11*				
(3) May be waived by QAE	*(3) Cleanness Value*	*TM 227*			*1792*			
	Dry Rodded Unit Weight			*T 19*	*1825*	*Start of production and when changes in aggregate occurs*	Visual	
					1825C			
(4) Not required for Dry Key Material								*Review Documentation for Acceptance*
(5) 1/5 Sublots & Start of Production								
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 2018)						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*	*Review Documentation for Acceptance*
Water	*Material must meet the requirements of Section 00340.10*						*Visual*	*Review Documentation for Acceptance*
						A Sublot equals 1000 Tons		
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*
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT								
	The type of recycling agent will be listed in the Special Provisions							
Recycling Agent *(See 00745.11)*	*Compliance*			*R 66*	*4000*	*Provide Suppliers Certificate of Compliance*	*Provide Suppliers Certificate of Compliance*	*Review Documentation for Acceptance*
Recycling Agent	*Compliance*			*R 66*	*4000*			
Asphalt Concrete Mixture	*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 2018)						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 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT								
Aggregate production								
	Abrasion			*T 96*	*4000*	*Contractor Provided Testing Minimum 1 per Project*	*Contractor Provided Testing Minimum 1 per Project*	*Review Documentation for Acceptance*
	Degradation	*TM 208*						
	Soundness			*T 104*				
	Lightweight Pieces			*T 113*	*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)		
	Sampling			*R 90*		*1/Sublot & Start of Production*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Sieve Analysis			*T 27/T 11*	*1792*			
(1) May be waived by QAE	*(1) Cleanness Value*	*TM 227*						
	Fracture			*T 335*				
(2) QAE may waive after 5 sublots/shifts	*(2) Elongated Pieces*	*TM 229*						
	(2) Wood Particles	*TM 225*			*1792*			
Choke Aggregate	*Sieve Analysis*			*T 27*	*1792*	*Provide Process Control*	*Visual*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)								
Mixture Acceptance						*A Sublot equals 1000 Tons of Mixture*		
	Sampling			*R 90*		*Provide Process Control*	*Visual*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
	Sieve Analysis			*T 27/T 11*	*2277*			
	Moisture Content			*T 255*	*2277*			
% Emulsified Asphalt	*Meter Backed*	*TM 321*			*2401*	*Daily Production*	*Visual*	
(1) Required at start of production and if meters fail to meet specification	*by Tank Measure Daily*	*(1) TM 322*			*& 2043*			
Emulsified Asphalt Cement	*Compliance*			*R 66*	*4000*	*Provide Suppliers Certificate of Compliance*	*Provide Suppliers Certificate of Compliance*	*Review Documentation for Acceptance*
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)								
	See Specifications when Testing is Required by Agency					*Provide Process Control*	*Visual*	*Review Documentation for Acceptance*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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)								
Aggregate Production								
	Soundness			*T 104*	*4000*	*Contractor Provided Testing Minimum 1 per Project*	*Contractor Provided Testing Minimum 1 per Project*	*Review Documentation for Acceptance*
	Abrasion			*T 96*				
	Degradation	*TM 208*						
	Lightweight Pieces			*T 113*				
	Plasticity Index			*T 90*	*4000*			
(1) QAE may waive after 5 sublots/shifts						*A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency*		
(2) Not required for ATPB Mix	*Sampling*			*R 90*		*1/Sublot & Start of Production*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
(3) Coarse Agg (+ No. 4)	*Reducing*			*R 76*				
	(3)(4) Sieve Analysis			*T 27/T 11*	*1792*			
(4) Fine Agg (- No. 4)	*(1)(4) Sand Equivalent*			*T 176*				
	(1)(2)(3) Elongated Pieces TM 229							
	(3)(4) Fracture (Method 2)			*T 335*	*1792*	*1/5 Sublots & Start of Production*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	(1)(2)(3) Wood Particles TM 225							

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 2018)						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				*A Sublot equals 1000 Tons*				
Ignition method	*Calibrate Incinerator TM 323*				*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition method	*Sampling* *Reducing*			*T 168* *R 47*		*1/Sublot or Min. 1/Day*		
(Residual aggregate from AASHTO T 308)	*Sieve analysis*			*T 30*	*2277*	*1/Sublot or Min. 1/day*		
Asphalt Content				*A Sublot equals 1000 Tons*				
Ignition Method	*Calibrate Incinerator TM 323*				*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition Method	*Sampling* *Reducing*			*T 168* *R 47*		*1/Sublot or Min. 1/day*		
	Asphalt Content			*T 308*	*2277*			
Meter Method	*Readings backed by Tank measure & Production Records Daily*	*TM 321* *(1) TM 322*			*2277*	*1/Sublot or Min. 1/day*		
(1) Required at start of production and if meters fail to meet specification					*2043 and 2401*	*Daily Production*	*Production Control Testing*	
Meter Method is required for PAC even when acceptance is by Ignition Method								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)								
Mixture Acceptance - PAC without RAP								
Gradation				*A Sublot equals 1000 Tons*				
Cold Feed Method	*Sampling* *Reducing* *Sieve Analysis*			*R 90* *R 76* *T 27/T 11*	*2277*	*1/Sublot or Min. 1/Day*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition method	*Calibrate Incinerator*	*(1) TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	
Ignition method	*Sampling* *Reducing*			*T 168* *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*	*2277*	*1/Sublot or Min. 1/day*	*Production Control Testing*	*Review Documentation for Acceptance*
Asphalt Content				*A Sublot equals 1000 Tons*				
Ignition Method	*Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition Method	*Sampling* *Reducing*			*T 168* *R 47*		*1/Sublot or Min. 1/day*	*Production Control Testing*	
(2) Required at start of production and if meters fail to meet specification	*Asphalt Content*			*T 308*	*2277*			
Meter Method	*Readings backed by Tank measure & Production Records Daily*	*TM 321* *(2) TM 322*			*2277*	*1/Sublot or Min. 1/day*	*Production Control Testing*	
Meter Method is required for PAC even when acceptance is by Ignition Method					*2043 and 2401*	*Daily Production*	*Production Control Testing*	*Review Documentation for Acceptance*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)								
Mixture Acceptance - PAC with and without RAP								
Mix Design Verification Testing				*A Sublot equals 1000 Tons*				
	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*	
If applicable	*(1) RAP Moisture*			*T 329*	*2277*	*1/Sublot or Min. 1/Day*	*Production Control Testing*	*Review Documentation for Acceptance*
	Readings backed by Tank measure & Production Records Daily	*TM321* *(2) TM 322*			*2401 & 2043*	*Daily Production*	*Production Control Testing*	
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 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00744 - ASPHALT CONCRETE PAVEMENT								
Aggregate Production	*See Specifications when Aggregate Testing is Required by Agency*					*Provide Process Control*	*Visual*	*Review Documentation for Acceptance*
Mixture Acceptance								
Gradation				*A Sublot equals 1000 Tons*				
Ignition method	*Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition method	*Sampling Reducing*			*T 168 R 47*		*1/Sublot or Min. 1/Day*	*Production Control Testing*	
(Residual aggregate from AASHTO T 308)	*Sieve analysis*			*T 30*	*2277*	*1/Sublot or Min. 1/Day*	*Production Control Testing*	*Review Documentation for Acceptance*
Asphalt Content				*A Sublot equals 1000 Tons*				
Ignition Method	*Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition Method	*Sampling Reducing*			*T 168 R 47*		*1/Sublot or Min. 1/day*	*Production Control Testing*	
	Asphalt Content			*T 308*	*2277*			
Mix Design Verification Testing				*A Sublot equals 1000 Tons*				
Plant Discharge Moisture	*Asphalt Mix Moist.*			*T 329*	*2277*	*1/Sublot*	*Production Control Testing*	*Review Documentation for Acceptance*
Maximum Density Test G_{mm}	*Max. Specific Gravity MAMD*	*TM 305*		*T 209*	*2050*	1st Sublot Daily or Min. 1/Day		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00744 - ASPHALT CONCRETE PAVEMENT (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 2018)						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								
Aggregate Production	*Soundness*			*T 104*	*4000*	*Contractor Provided Testing Minimum 1 per Project*	*Contractor Provided Testing Minimum 1 per Project*	*Review Documentation for Acceptance*
	Abrasion			*T 96*				
	Degradation	*TM 208*						
(1) QAE may waive after 5 sublots/shifts	*Lightweight Pieces*			*T 113*				
	Plasticity Index			*T 90*	*4000*			
(2) Perform a minimum of 3 tests QL's required						*A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency*		
	Sampling			*R 90*		*1/Sublot & Start of Production*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	Reducing			*R 76*				
(3) Coarse Agg (+ No. 4)	*(2)(3)(4) Sieve Analysis*			*T 27/T 11*	*1792*			
(4) Fine Agg (- No. 4)	*(1)(4) Sand Equivalent*			*T 176*				
Note: Sample Aggregate before Lime Treatment	*(1)(3) Elongated Pieces*	*TM 229*		*T 335*	*1792*	*1/5 Sublots & Start of Production*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	(3)(4) Fracture (Method 2)							
	(1)(3) Wood Particles	*TM 225*						
RAS Production *(Reclaimed Asphalt Shingles)*	*Sieve Analysis*			*T 27*	*4000*	*Contractor Provided Testing 1/500 Tons*	Contractor Provided Testing	*Review Documentation for Acceptance*
	Deleterious Materials	*TM 335*						
	Sampling			*R 90*		*1 / 50 Tons*		
	Reducing			*R 76*				
	Sieve Analysis			*T 27*	*1792*			
	Deleterious Materials	*TM 335*						

Preproduced Aggregate

Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:

1. Continuing production records meeting the above requirements of Section 00745.10 Aggregate Production.
2. Furnish records of testing for the entire stockpile according to Section 00745.10 Aggregate Production except change the sampling frequency to the following:

a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".
b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.
c. Provide one stockpile sample for each set of tests required above.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP Without RAP				*A Sublot equals 1000 Tons*				
Gradation								
Ignition method	*Calibrate Incinerator TM 323*				*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition method	*Sampling* *Reducing*			*T 168* *R 47*		*1/Sublot*		
(Residual aggregate from AASHTO T 308)	*Sieve analysis*			*T 30*	*2277*	*1/Sublot*		
Asphalt Content				*A Sublot equals 1000 Tons*				
Ignition Method	*Calibrate Incinerator TM 323*				*2327IC*	*1/JMF & Each Calendar Year.*	*Production Control Testing*	*Review Documentation for Acceptance*
Ignition Method	*Sampling* *Reducing*			*T 168* *R 47*		*1/Sublot or Min. 1/day*		
	Asphalt Content			*T 308*	*2277*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP Without RAP				*A Sublot equals 1000 Tons*				
Mix Design Verification Testing								
Fabrication	*Gyratory Specimen*	*TM 326*			*2050GV*	*1/Sublot & according to Section 00745.16 (b)-1-d*	*Production Control Testing*	*Review Documentation for Acceptance*
Maximum Density Test	*Max. Specific Gravity*			*T 209*	*2050 *5068 *2560*			
Determination of G_{mb}	*Bulk Specific Gravity*			*T 166*	*5069*			
Stripping Susceptibility	*Tensile Strength Ratio*			*T 283*	*2050tsr*	*1/JMF See Section 00745.16 (b)-1-f*	*Production Control Testing*	*Review Documentation for Acceptance*
**Cat-II complete & submit as required, See Section 745.16(b)*								
Plant Discharge Moisture	*Asphalt Mix Moist.*			*T 329*	*2277*	*1/Sublot*	*Production Control Testing*	*Review Documentation for Acceptance*
Maximum Density Test G_{mm}	*Max. Specific Gravity*			*T 209*	*2050*	*1st Sublot Daily or Min. 1/Day*		
	MAMD	*TM 305*						
Performing Control Strip	*Control Strip*	*TM 306*			*2084 *5069*	*Develop Rolling Pattern See Specs.*	*Production Control Testing*	*Review Documentation for Acceptance*
Compaction	*Nuclear Density*			*T 355*	*1793A*	*(D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2*		
Asphalt Cement	*Compliance*			*R 66*	*4000*	*1/Sublot See Section 4C*	*Provide Suppliers Certificate of Compliance*	*Review Documentation for Acceptance*
(D) See T 355 Yellowsheet for Density Test Locations								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP Without RAP				*A Sublot equals 1000 Tons*				
Mix Design Verification Testing								
Meter Method	*Readings backed by Tank Measure & Production Records Daily*	*TM 321* *(1) TM 322*			*2277*	*1/Sublot or Min. 1/Day*	*Production Control Testing*	*Review Documentation for Acceptance*
					2043 and 2401	*Daily Production*		
(1) Required at start of production and if meters fail to meet specification	*Cold Feed Moisture*			T 255/265	*2277*	*1/Sublot or Min. 1/Day*	*Production Control Testing*	
Lime	*Material must meet the requirements of Section 2090*						*Production Control Testing*	
Latex	*See Special Provisions for Latex Requirements*							
Lime or Latex Treatment of Aggregate *(Stockpile OR Mixture Production)*	*(3) % Hydrated Lime*	*TM 321* *(1) TM 322*			*2277* *2277*	*1/Sublot*	*Production Control Testing*	*Review Documentation for Acceptance*
(3) See JMF for Details	*Readings backed by Tank Measure & Production Records Daily*				*2043 and 2401*	*Daily Production*	*Production Control Testing*	
Smoothness								
Certification of Profiler Equipment		*TM 769*				*See Special Provisions*	*Production Control Testing*	*Review Documentation for Acceptance*
Determining Profile Index		*TM 770*						
Determining International Roughness Index		*TM 772*						
Meter Method is required for ACP even when acceptance is by Ignition Method								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP With RAP				*A Sublot equals 1000 Tons*				
Gradation								
Ignition method	*Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*		
Ignition method	*Sampling*			*T 168*		*1/Sublot*	*Production Control Testing*	*Review Documentation for Acceptance*
	Reducing			*R 47*				
(Residual aggregate from AASHTO T 308)	*Sieve analysis*			*T 30*	*2277*			
Asphalt Content				*A Sublot equals 1000 Tons*				
Ignition Method	*Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*		
Ignition Method	*Sampling*			*T 168*		*1/Sublot or Min. 1/day*	*Production Control Testing*	*Review Documentation for Acceptance*
	Reducing			*R 47*				
	Asphalt Content			*T 308*	*2277*			
RAP Percentage	*Meter Method*	*TM 321*			*2277*	*1/Sublot or Minimum 1/Day*	*Production Control Testing*	*Review Documentation for Acceptance*
		(1) TM 322						
(1) Required at start of production and if meters fail to meet specification	*RAP Moisture*			*T 329*				
	Cold Feed Moisture			*T255/T265*	*2277*			
Meter Method is required for ACP even when acceptance is by Ignition Method	*Readings backed by Tank measure & Production Records Daily*	*TM 321*			*2401 & 2043*	*Daily Production*	*Production Control Testing*	*Review Documentation for Acceptance*
		(1) TM 322						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP With RAP				A Sublot equals 1000 Tons				
Mix Design Verification Testing								
Fabrication	*Gyratory Specimen*	*TM 326*			*2050GV*			
Maximum Density Test	*Max. Specific Gravity*			*T 209*	*2050* **5068* **2560*	*1/Sublot & according to Section 00745.16 (b)-1-d*	*Production Control Testing*	*Review Documentation for Acceptance*
Determination of G_{mb}	*Bulk Specific Gravity*			*T 166*	**5069*			
Stripping Susceptibility	*Tensile Strength Ratio*			*T 283*	*2050tsr*	*1/JMF See Section 00745.16 (b)-1-f*	*Production Control Testing*	*Review Documentation for Acceptance*
**Cat-II complete & submit as required, See Section 745.16(b)*								
Plant Discharge Moisture	*Asphalt Mix Moist.*			*T 329*	*2277*	*1/Sublot*	*Production Control Testing*	*Review Documentation for Acceptance*
Maximum Density Test G_{mm}	*Max. Specific Gravity*			*T 209*	*2050*	*1st Sublot Daily or Min. 1/Day*		
	MAMD	*TM 305*						
Performing Control Strip	*Control Strip*	*TM 306*			*2084* **5069*	*Develop Rolling Pattern See Specs.*	*Production Control Testing*	*Review Documentation for Acceptance*
Compaction	*Nuclear Density*			*T 355*	*1793A*	*(D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2*		
Asphalt Cement	*Compliance*			*R 66*	*4000*	*1/Sublot See Section 4C*	*Provide Suppliers Certificate of Compliance*	*Review Documentation for Acceptance*
(D) See T 355 Yellowsheet for Density Test Locations								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)								
Mixture Acceptance - ACP With RAP				*A Sublot equals 1000 Tons*				
Mix Design Verification Testing								
Lime	*Material must meet the requirements of Section 2090*						*Production Control Testing*	*Review Documentation for Acceptance*
Latex	*See Special Provisions for Latex Requirements*							
Lime or Latex Treatment of Aggregate (Stockpile OR Mixture Production)	*[3] % 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 and 2043*	*Daily Production*	*Production Control Testing*	*Review Documentation for Acceptance*
[3] See JMF for Details								
Smoothness								
Certification of Profiler Equipment		*TM 769*				*See Special Provisions*	*Production Control Testing*	*Review Documentation for Acceptance*
Determining Profile Index		*TM 770*						
Determining International Roughness Index		*TM 772*						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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					*A Sublot equals 1000 Tons*			
(1) QAE may waive after 5 sublots/shifts *(2) Perform a minimum of 3 tests, QL's required*	*Sampling* *Reducing* *(2)(3)(4) Sieve Analysis* *(4) Fineness Modulus* *(4) Sand Equivalent*			*R 90* *R 76* *T 27/T 11* *T 176*	*1792* *1792*	*Contractor Provided Testing*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
(3) Coarse Aggregate (See Section 02690.20)	*(1)(3) Wood Particles* *(3) Fracture (Method 2)* *(1)(3) Elongated Pieces*	*TM 225* *TM 229*		*T 335*	*1792* *1792*	*Contractor Provided Testing 1/5 Sublots & Start of Production*	*Contractor Provided Testing*	*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* *4000*	*Minimum 1 per Project*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	(3) Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*	*Contractor Provided Testing*	*Review Documentation for Acceptance*
	(3)(4) Bulk Specific Gravity & Absorption			*T 84 & T 85*	*1825*			

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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
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR **SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT** **SECTION 00756 - PLAIN CONCRETE PAVEMENT** **SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR** **(CONTINUED)**								
Mixture						*A Sublot equals 1000 lane feet of slip formed pavement or 100 yd^3 of non-slip formed PCC*		
Portland Cement *Modifiers* *Admixtures*	*Materials must meet the requirements of Section 02001.10*					*Provide Suppliers Certificate of Compliance*		*Review Documentation for Acceptance*
Curing Compounds	*Material must meet the requirements of Section 02050*							
Mixing Water	*Material must meet the requirements of Section 02020*							
Mixture	*Sampling*		*TM 2*					
	Air Content			*T 152*				
	Slump			*T 119*				
	Density (Unit Weight)			*T 121*	*3573WS or 4000C*	*Contractor Provided Testing - 1/sublot or Minimum 1 per Day*	*Visual*	*Review Documentation for Acceptance*
	Yield			*T121*				
	Concrete Temperature			*T 309*				
	Water/Cement Ratio		.	*T 121*				
(S) 1 Set Represents a minimum of 3 Cylinders	*Batching*							
(M) Per Mix Design & Source	*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*
Smoothness								
Certification of Profiler Equipment		*TM 769*				*See Special Provisions*	*Production Control Testing*	
Determining Profile Index		*TM 770*						
Thickness of Pavement	*Sitcking Measure*	*TM 775*				*See Specs*	*Visual*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2018)						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 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 2018)						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 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS								
Aggregate Production						A Sublot equals 1,000 Tons		
	Sampling			*R 90*				*Review Documentation for Acceptance*
(1) QAE may waive after 5 sublots/shifts	*Reducing*			*R 76*				
	(2)(3)(4) Sieve Analysis			*T 27/T 11*	*1792*	*Contractor Provided Testing*	*Contractor Provided Testing*	
	(4) Fineness Modulus			*T 27/T 11*				
(2) Perform a minimum of 3 tests, QL's required	*(1)(3) Wood Particles*	*TM 225*						
	(4) Sand Equivalent			*T 176*	*1792*			
(3) Coarse Aggregate (See Section 02690.20)	*Soundness*			*T 104*	*4000*	*Contractor Provided Testing*	*Contractor Provided Testing*	
	Abrasion			*T 96*				
	Degradation	*TM 208*						
	Lightweight Pieces			*T 113*				
(4) Fine Aggregate (See Section 02690.30)	*Organics*			*T 21*	*4000*			
	(3) Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Minimum of 1 per Project*	*Minimum of 1 per Project*	
	(3)(4) Bulk Specific Gravity & Absorption			*T 84 & T 85*	*1825*			
Portland Cement Modifiers Admixtures	*Materials must meet the requirements of Section 02001.10*						*Manufacture Compliance Statement*	
Drilling Slurry	*Slurry material must meet the requirements of Section 00921.14 & 00921.43(g)*						*Contractor Provided Testing*	
Grout	*Material must meet the requirements of Section 02080*						*Manufacture Compliance Statement*	
Mixing Water	*Material must meet the requirements of Section 02020*							
								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	Project Manager Type D & E
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS								
Portland Cement Concrete								
	Sampling		*TM 2*		*3573WS or 4000C*	*(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.*	*(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.*	*Review Documentation for Acceptance*
	Slump			*T 119*				
	Concrete Temperature			*T 309*				
	Density (Unit Weight)			*T 121*				
	Yield			*T121*				
	Water/Cement Ratio			*T 121*				
	Strength			*T22/23*	*4000C*			

(S) 1 Set Represents a minimum of 3 Cylinders

(M) Per Mix Design & Source

TABLE 00512-1 Frequency of Quality Control Testing

Minimum frequencies per Class of concrete based on daily production records.

Production	**Frequencies**
0 to 100 yd³ on a single day	1 Set each day
Quantity Over 100 yd³	
100 to 600 yd³ on a single day	1 Set per each 100 yd³ or portion thereof
over 600 yd³ on a single day	1 Set per each 200 yd³ or portion thereof after reaching 600 yd³