

General Inspector Resource Manual



Resource Manual

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1	Manual of Field Test Procedures (MFTP)
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WARNING!

Materials included in this Resource Manual are for **training purposes ONLY!**

Most resources in this manual are out of date and not used on current projects. Be sure to check the let date of your project and use the appropriately dated material for administration.

FOREWORD

Along with the *General Construction Inspector Training Manual*, we have provided this *Resource Manual*. The *Resource Manual* includes excerpts from other manuals. Full copies of the manuals are available in class for your review and on the internet for later access.

This manual was developed as a reference for inspectors to access construction inspection related sections without the overwhelming feeling of seeing each entire manual. We expect that you will take the time to review each of the manuals in their entirety to see how they are organized and the wealth of information they contain. Included in the *Resource Manual* are:

Manual of Field Tested Materials (MFTP)

- **Section 2** – This section explains what the three separate and distinct sub-programs are and the responsibilities that each have for Field Testable Materials. In this section you will find the Contractor, Project Manager, and Region QA Team responsibilities. It also defines each of the different material testing certifications that individuals should hold when testing materials on the project.
- **Section 4B** – This section covers the small quantity schedule from the *Manual of Field Test Procedures*.
- **Section 4D** – This is another section from the *Manual of Field Test Procedures*. The section provides tables that list testing requirements for materials that are tested in the field (e.g., aggregate, concrete, HMAC). The document includes production testing as well as placement testing. It specifies who should be performing the tests, when they should be performing the tests and on what form to record the test results.

Non Field-Tested Materials Acceptance Guide (NTMAG)

- This document is a table that lists each Quality Document required for product acceptance. Ensure that you, as the inspector, consult this table for product compliance documentation and verify each document is received prior to Contractor installation.

Qualified Product List (QPL)

- This document is a complete list of Qualified or Approved products and manufacturers that are available for use on ODOT projects.

INSERT TAB

1. MFTP



QUALITY ASSURANCE PROGRAM

(Revised December, 2019)

**OREGON DEPARTMENT OF TRANSPORTATION
QUALITY ASSURANCE PROGRAM**

I. OVERVIEW

The Oregon Department of Transportation (ODOT) has implemented a Quality Assurance (QA) program approach that complies with the FHWA Guidelines for a QA program for construction projects on the National Highway System. This program defines the responsibilities of the contractor and ODOT in order to satisfy the needs of the program. This program is currently used for all construction projects administered by ODOT or its consultants.

ODOT recognizes that there are other benefits of developing and implementing Quality Assurance specifications into its construction program. These benefits include:

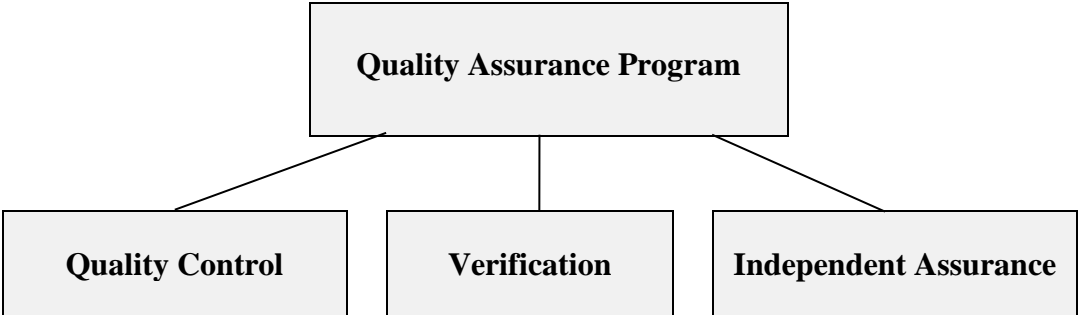
- To improve the overall quality of highway and bridge construction; and
- To place responsibility on the contractor for quality control in contracted work.

The success of the Departments Quality Assurance program is dependent on three primary features. The first is the Laboratory Certification program, which is discussed in Section III, Pg. 7, of this document. The second is the Technician Certification program, which is discussed in Section IV, Pg. 14, and the final feature is the specific product QC/QA testing plan detailed in Section VI, Pg. 27, of this document.

Quality Assurance (QA)

Quality Assurance is defined as: *All those planned and systematic actions necessary to provide confidence that a product or service will satisfy given requirements for quality.*

ODOT has developed its QA Program, which includes three separate and distinct sub-programs as illustrated below:



Quality Control (QC)

Quality Control is defined as: *All contractor/vendor operational techniques and activities that are performed or conducted to fulfill the contract requirements.*

The contractor is responsible for providing quality control sampling and testing, furnishing material of the quality specified, and furnishing QL levels during aggregate production, when required. The contractor's Quality Control technician must perform or observe the sampling operations. Testing operations will be performed by a Certified Technician. The certified technician, who performs the sampling and testing procedures, must sign the testing documentation.

Contractor quality control tests will be used for acceptance only if verified by tests performed by an independent group (Region QA).

Small quantities of some materials may be accepted when requested by the contractor and approved by the Project Manager (see Section 4(B) of MFTP).

ODOT will perform testing for all source/compliance tests and those non-field tested items associated with construction products (e.g. asphalt's, emulsions, tack, water, cement, lime, etc.).

Verification

Verification is defined as: *Sampling and testing performed to validate the quality of the product.*

Verification samples are taken randomly (minimum ten-percent frequency of subplot quantity identified in Section 4(D) of the MFTP) and tested by an independent group (Region QA) to verify that products meet required specification(s). Quality Control samples shall not be used for verification.

Independent Assurance

Independent Assurance is defined as: *Activities that are an unbiased and independent evaluation of all the sampling and testing procedures used in the acceptance program.*

ODOT's Independent Assurance (IA) Program uses a combination approach requiring laboratory certification, technician certification, proficiency samples, and where possible, split samples of verification or QC tests. The Construction Section certifies quality control and quality assurance testing laboratories and technicians. Contractor's test results of split IA samples are compared to Region QA test results for compliance using ODOT IA parameters. The PM performs random inspections of QC labs and technicians for compliance. The quality of Region QA test results are constantly monitored through the Departments proficiency samples program, which is outlined in, Section V, Pg. 25.

The Quality Assurance Testing (both Verification and Independent Assurance) will be performed by a Quality Assurance Laboratory designated by the Agency in compliance with 23 CFR 637.

Quality Assurance Program Components

Third-Party Resolution

Third Party Resolution is used when the Agency's Quality Assurance test results conflict with ongoing Quality Control test results and when verification requirements are not met or the conflict cannot be resolved. Third-Party Resolution can be requested by either the Contractor or the Project Manager.

Third Party Resolution testing shall be performed by a Dispute Resolution Laboratory. The Construction Section's Central Materials Laboratory performs third party dispute resolutions. This is normally done by testing quality control production backup samples, but may include other resolution techniques or procedures as determined by the agencies technical expert for the corresponding specification section.

The test result(s) of the Dispute Resolution Laboratory performing dispute resolution materials testing for any or all disputed test results will be considered the actual test results and will therefore be used for acceptance of the material.

CERTIFICATION ADVISORY COMMITTEE

The certification programs (both Technician and Laboratory Certifications) for ODOT's Quality Assurance program will be overseen by a Certification Advisory Committee. The purpose of this committee is to review and provide general oversight to the certification programs. The committee will be responsible for establishing policy as related to the certification programs and will also be responsible for reviewing allegations concerning abuse by technicians. The Certification Advisory Committee will perform other duties as required to successfully implement and continue the Certification Programs. A meeting of the committee may be called at any time by the Chair of the Certification Advisory Committee or by written request of at least two members of the Committee. A majority of the members of the Committee shall be present for transaction of official business.

Membership

Membership of the Certification Advisory Committee will include the following:

ODOT Construction and Materials Engineer (Chair)
ODOT Pavements Services Engineer
ODOT Quality Assurance Engineer
ODOT Structural Services Engineer
ODOT Laboratory Services Manager
APAO Executive Director or Representative
OCAPA Executive Director or Representative

AGC Heavy Highway Representative
Industry “At Large” Representative (appointed by Committee)

Random Samples

The Quality Assurance Program is based on theoretical conditions and the application of statistical acceptance procedures. Sampling shall be by simple random, stratified random or systematic means as specified.

To obtain a representative sample, a reliable system of random sampling shall be employed. Some work, like process control, lends itself quite well to the use of the Random Units Table and the Random Sample Location forms that ODOT has developed. ODOT TM 400 Determining Random Sampling and Testing Locations is available to assist with random number determinations and test site locations. Random Sampling is the preferred method to assure that the samples are representative and to eliminate sampling bias. In other work, like Verification or Independent Assurance, it may be difficult to apply random numbers to sample selection. In this case, it is imperative that the samples are taken at locations or times, which do not have an identifiable pattern, and are completely random and without bias.

ODOT Approved Commercial Aggregate Product Program

The ODOT quality assurance program allows some freedom for commercial sources to establish their own quality control plan that is tailored to the operation of the specific commercial source. The commercial supplier is required to submit a written quality control plan to the appropriate Region Quality Assurance Coordinator for approval. All testing for the approved quality control plan is required to be performed by a certified technician in an ODOT certified laboratory. Specific details on ODOT Approved Commercial Aggregate Product Program may be found in Appendix A, Pg. 47.

FIELD TESTED MATERIALS SMALL QUANTITY GUIDELINE

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

The Contractor may request, in writing, that normal QC sampling and testing of materials be waived for the quantities listed in the table below. The written request should clearly identify the equipment and process proposed before commencement of the work.

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

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

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

See next page for Small Quantity Table.

Small Quantity Table

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

HOW TO USE THE FIELD TESTED MATERIALS ACCEPTANCE GUIDE

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

Materials in this guide are listed in the numerical order of the Standard Specifications and the project special provisions. 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

SOURCE REVIEW/PRODUCT COMPLIANCE TESTING – Refer to Section 4(A) for additional explanation. Certain QC tests on aggregates fall into this category. They are identified in this section by the words “Product Compliance.”

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

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

TYPES OF TESTS

The following types of tests will be performed by the Contractor or Engineer on materials and products required for contract work:

1. **Source Review** – This test type is addressed in Section 4(A) of this Manual.

The Engineer will test unprocessed material from an aggregate source, if requested by the Contractor, to provide information about the quality of material. Tests will involve degradation, soundness, and abrasion, but may involve other tests. Favorable test results do not imply that processed material from the source will comply with specifications after it is processed as required for the project.

2. **Product Compliance** – This test type is addressed in Section 4(A) of this Manual. The Engineer will test processed material if process control testing indicates that the processed material meets the contract quality requirements. Tests will involve degradation, soundness, abrasion, and lightweight pieces, but may involve other tests. The material shall not be incorporated into the project unless Product Compliance tests show favorable results.

3. **Quality Control** – The Contractor will perform quality control testing as described in Section 2 and specified in 4(D) of this Manual or as modified by the Special Provisions or Supplemental Standard Specifications.

4. **Verification** – The Engineer will perform Verification testing as described in Section 2 and specified in Section 4(D) of this Manual. **Note: The required 1 per 10 subplot testing of Quality Control by the Region QA is considered a minimum frequency and testing may be increased when deemed necessary by the engineer.** These tests provide the basis for the Engineer's decision on acceptance of materials and products. If Independent Assurance is to be done on a material, a split of the Verification sample will be given to the Contractor for testing.

5. **Independent Assurance** – Where Independent Assurance involves testing, the Engineer will evaluate test results from split samples to assure that Contractor test results meet required parameters.

6. **Visual** – Visual Inspection: Examination and assessment of construction materials, by **OBSERVATION**, to determine if the materials appear to meet the contract requirements and are acceptable for incorporation into ODOT construction projects. Visual inspection, when stated in the contract, is a method generally used by the Project Inspector in lieu of normal sampling and testing of field tested materials as defined in section 00165.00 of the Standard Specifications to document quality. Supporting documentation for visual acceptance is, at a minimum, a field inspection report. Consult the construction contract for other acceptance document requirements.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00330 - EARTHWORK									
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468				
	Bulk Specific Gravity			T 85	3468	1/Soil type		1/Project	
	Family of Curves			R 75	3468FC				
	Deflection Testing	TM 158			1793S	1 test per 3 ft. in depth			1 test per 10 QC Tests per Table 00330-1
Compaction	Nuclear Gauge			T 310	1793S	See Table 00330-1 Below			
	Coarse Particle Correction			T 99	1793S				
	Deflection Testing	TM 158			1793S				

TABLE 00330-1 Frequency of Quality Control Testing (English)

	Individual Areas	Under 3500 yd ² or yd ³	Over 3500 yd ² or yd ³
Stone Embankment Material (See Sec. 330.16(a))	Existing Ground Surface	1 test per 1000 yd ²	1 test per 3000 yd ²
	Embankments	1 test per 500 yd ³	1 test per 3000 yd ³
	Excavations and Finished Subgrade	1 test per 1000 yd ²	1 test per 3000 yd ²
Compaction	Gradation		Visual See Section 00330.16(b)
	Deflection Testing	TM 158	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	See Section 4C	Submit to Lab
		See Section 4C 1/Source & 1/Type of Soil	
		4000	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00331 - SUBGRADE STABILIZATION Aggregate backfill	Material must meet the requirements of Section 00331.10								
					Visual				
Water	Material must meet the requirements of Section 00340								
					Visual				
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				
Compaction	Material must meet the requirements of Section 00332								
					Visual				
SECTION 00333 - AGGREGATE DITCH LINING Aggregate	Sampling Reducing Sieve Analysis								
				R 90 R 76 T 27/T 11					
					1/Project or 1/Source				
				1792					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00344 - TREATED SUBGRADE											
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime			T 27 T 219	4000	1/Project or 1/Source	Submit to Lab			1/Project or 1/Source	
Hydrated Lime Calcium Chloride Sodium Chloride	Materials must meet the requirements of Section 00344.10 and Test Results Certificate provided according to Section 00165.35(a)										
Portland Cement Water	Material must meet the requirements of Section 02010 Material must meet the requirements of Section 00340										
Establishing Maximum Density	Density Curve Maximum Specific Gravity			T 99	3468	See Table 00344-1 Below for Testing Frequency					1/Project and 1 Test per 10 QC tests per Table 00344-1
Compaction	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158 TM 158		T 310 T 99	1793S 1793S						
TABLE 00344-1 Frequency of Quality Control Testing											
Individual Areas				Under 3500 yd²				Over 3500 yd²			
Finished Subgrade				1 test per 1000 yd ²				1 test per 3000 yd ²			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE							
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory				
SECTION 00360 - Drainage Blankets														
Granular Drainage Blanket	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	1792	1/sublot minimum 1/Source per Project	A sublot equals 1000 Tons							
					1792									
Sand Drainage Blanket	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11										
					1792									
Establishing Maximum Density	Density Curve			T 99	3468	1/Source and Type			1/Project					
	Bulk Specific Gravity			T 85	3468									
Compaction	Deflection Testing	TM 158			1793S	1 test per 3 ft. in depth								
					1793S									
	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158		T 310 T 99	1793S	See Table 00360-1 Below			1 Test per 10 QC Tests per Table 00360-1					
					1793S									
TABLE 00360-1 Frequency of Quality Control Testing														
Individual Areas					Under 3500 yd²					Over 3500 yd²				
Existing Ground Surface					1 test per 1000 yd ²					1 test per 3000 yd ²				
Finished Surfaces					1 test per 1000 yd ²					1 test per 3000 yd ²				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00390 - RIPRAP PROTECTION											
Fill Material & Riprap											
Gradation See 00390.11(c-1)	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208		T 104 T 85	4000 1825	See Section 4(A)	Submit to Lab				See Section 4(A)
Filter Blanket											
Gradation See 00390.13											
Grouted Riprap											
Sand	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	1792	1/Project					
	Soundness Lightweight Pieces			T 104 T 113	4000	See Section 4(A)	Submit to Lab				See Section 4(A)
Portland Cement	Material must meet the requirements of Section 02010										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00396 - SHOTCRETE SLOPE STABILIZATION										
Aggregate Production and Mixture										
⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Reducing			R 90 R 76		1/Sublot & Start of Production	Submit to Central Lab	1 per 10 Sublots		See Section 4(A)
	⁽²⁾⁽³⁾ Sieve Analysis			T 27/T 11 T 27/T 11						
	⁽³⁾ Fineness Modulus			T 176						
⁽²⁾ Coarse Aggregate (See Section 02690.20)	⁽¹⁾⁽²⁾ Wood Particles	TM 225				See Section 4A	Submit to Central Lab			
	⁽³⁾ Sand Equivalent									
⁽³⁾ Fine Aggregate (See Section 02690.30)	Soundness			T 104 T 96	4000	Start of production and				
	Abrasion									
	Degradation Lightweight Pieces Organics	TM 208		T 113 T 21						
Portland Cement Admixtures	⁽²⁾ Dry Rodded Unit Weight			T 19	1825 1825C	Material must meet the requirements of Section 02010				
	⁽²⁾⁽³⁾ Bulk Specific Gravity & Absorption			T 84 & T 85	1825					
Mixing Water						Material must meet the requirements of Section 02040				
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				
^(S) 3 Cores minimum per Panel	Strength			T 22	4000C	1/Set Cores per Test panel	Submit to Central Lab			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL								
TRENCH FOUNDATION (Excavation Below Grade Only)								
Selected general backfill							Visual	
Selected granular backfill							Visual	
Selected stone backfill							Visual	
Other approved material							Visual	
Establishing Maximum Density	Density Curve			T 99	3468		1/Soil Type or Aggregate Gradation	
	Bulk Specific Gravity			T 85	3468			
	Family of Curves			R 75	3468FC			
	Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S		1 test per 300 ft. of Trench	
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			Materials Laboratory
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)									
Bedding									
3/8" - 0	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11		1/Source or Aggregate Gradation			
PCC fine aggregate (See Section 02690.30(h))					1792			Visual	
Commercial 3/4" - 0 Aggregate									
No. 10 - 0	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11		1/Source or Aggregate Gradation			
Sand drainage blanket material (See Section 00360.10)					1792			Visual	
Reasonably well graded sand, maximum 3/8" to dust								Visual	
Commercial available 3/8"-0 or No.10 - 0 sand								Visual	
Continuous cradle of Commercial Grade Concrete								Visual	
	<i>Material must meet the requirements of Section 00440</i>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory	
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	1/Source or Gradation				
					R 76 T 27					
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate					1792					
Establishing Maximum Density	Density Curve				(¹) T 99	1/Source or Aggregate Gradation	Visual			
	Bulk Specific Gravity				T 85					
⁽¹⁾ Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Coarse Particle Correction				T 99					
	Nuclear Gauge				T 310	1 Test per 300 ft. of Trench and every 1.5 ft. of Fill				
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)									
Trench Backfill									
Class A Backfill - Native or common Material		Material must meet the requirements of Section 00330.43							
Class B Backfill - 1"-0 or 3/4"-0 Granular Material		Material must meet the requirements of Section 00641							
Class C Backfill - Clean sand with 100% minus 1/4" material							Visual		
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine							Visual		
Class E Backfill - Controlled Low Strength Material (CLSM)		Material must meet the requirements of Section 00442							
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve		(1) T 99		3468				
	Bulk Specific Gravity		T 85		3468				
	Family of Curves		R 75		3468FC		1/Soil Type or Aggregate Gradation		
Compaction (C) Density testing is based on cumulative lineal feet of pipe placement.	Nuclear Gauge Coarse Particle Correction		T 310 T 99		1793S or 1793B		(C) 1 test per 300 ft. of Trench and every 1.5 ft. of Fill		
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 2020)		Same Frequency for all Tests (Minimums)												
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE												
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory									
SECTION 00430 - SUBSURFACE DRAINS																		
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis			R 90	1792	1/Sublot (Minimum 1/ Project)	A Sublot equals 1000 Tons											
				R 76														
				T 27														
Special Filter Material See Section 00430.46(a)	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit To Lab		See Section 4A									
SECTION 00440 - COMMERCIAL GRADE CONCRETE																		
Mixture	Sampling Air Content Density (Unit Weight) Yield Slump Concrete Temperature		TM 2	T 152 T 121 T 121 T 119 T 309	3573WS or 4000 C	(S) 1 per each set of cylinders												
										Material must meet the requirements of Section 02030								
										Material must meet the requirements of Section 02040								
										Material must meet the requirements of Section 02010								
Modifiers Admixtures Portland Cement	Strength			T 22 & T 23	4000C	(M)(S) 1 Set / Day Minimum												
										Strength								
Structural Items Except Visual Acceptance Items (See section 00440.14(a))				T 22 & T 23	4000C	(M) (S) 1 Set/20 yd ³ Cumulative (Maximum 1 Set/day)												
										(S) 1 Set Represents a minimum of 3 Cylinders								
(M) Per Mix Design & Source																		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)								
CLSM Mixture	Mix Proportions Trial Batch Strength							
				T 22 & T 23				
					1/Project or Source			
Modifiers		Material must meet the requirements of Section 02030						
Admixtures		Material must meet the requirements of Section 02040						
Portland Cement		Material must meet the requirements of Section 02010						
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405								
Trench Work								
Excavation, bedding, pipe zone and trench backfill								
		See Section 00405 for pipes less than 72"						
Excavation, bedding, pipe zone and trench backfill								
		See Section 00510 for pipes greater than 72"						
Concrete Blocks		Material must meet the requirements of Section 00440						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE	
		ODOT	WAQTC		AASHTO	Contractor Quality Control
SECTION 00450 - STRUCTURAL PLATE SHAPED STRUCTURES						
Commercial Grade Concrete in appurtenances		Material must meet the requirements of Section 00440				
Trench Work						
Excavation and Backfill		Operations must meet the requirements of Section 00510				
Trenches in Unstable Areas						
Granular Structural Backfill		Material must meet the requirements of Section 00510				
Establishing Maximum Density (¹) Method "A"	Density Curve			(¹) T 99	3468 B	1/Aggregate Gradation and Source
	Bulk Specific Gravity			T 85		
	Coarse Particle Correction	TM 223				
Compaction	Nuclear Gauge			T 310	1793 B	1 Test per 100 ft. and 1 ft. of fill
Structure Backfill (Section 00450.46)		Material and Operation must meet the requirements of Section 00510.48(d)				
SECTION 00459 - CAST IN PLACE CONCRETE PIPE						
Concrete		Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17				
Backfill Material		Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00460 - PAVED CULVERT END SLOPES									
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>							
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS									
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>							
Base Drain Backfill		<i>Material must meet the requirements of Section 00470.17</i>							
Excavation, Backfill and Foundation Stabilization		<i>Material must meet the requirements of Section 00405</i>							
SECTION 00480 - DRAINAGE CURBS									
Commercial Grade Concrete		<i>Material must meet the requirements of Section 00440</i>							
Dense Graded ACP Mixture Level 2, (1/2")		<i>Material must meet the requirements of Section 00744</i>							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES									
Commercial Grade Concrete		Material must meet the requirements of Section 00440							
High Early Strength Concrete		Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11							
Backfill Operations		Backfill Excavations according to section 405							
Filling Abandoned Pipes, Manholes and Catch Basins (See section 00490.44)									
Backfill Operations (Roadway)		Material must meet the requirements of Section 2630							
Establishing Maximum Density (¹) Method "A"	Density Curve				(¹) T 99				
	Bulk Specific Gravity Coarse Particle Correction	TM 223			T 85			1/Aggregate Gradation and Source	
Compaction	Nuclear Gauge				T 310			1 Test per 100 ft. and every 1.5' of Fill	
Backfill Operations Landscaped or Unimproved Roadways		Material must meet the requirements of Section 00330.13							
Top 1.0' of Backfill Region		Material must meet the requirements of Section 00330.11							
SECTION 00495 - TRENCH RESURFACING									
Resurfacing Materials		See Section 00495.40 for Material Requirements							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL									
Soils, Soil/Aggregate Mixtures and Graded Aggregates									
Granular Structure Backfill (See Section 02630.10) (¹) Perform a minimum of 3 tests QL's required	Sampling Reducing			R 90 R 76		1/Sublot (Minimum 1/Project)	Submit to Lab		Minimum 1/Project or 1/Source
	(¹) Sieve Analysis Fracture (Method 1) Sand Equivalent			T 27 T 335 T 176	1792				
	Abrasion			T 96					
	Degradation Plasticity Index Sieve Analysis	TM 208		T 90 T 11	4000	See Section 4C 1/Source			
	Density Curve			(²) T 99	3468	1/Soil type or Aggregate Gradation			
Establishing Maximum Density (²) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity			T 85	3468				
	Coarse Particle Correction			T 99					
Compaction	Nuclear Gauge			T 310	1793B	1/100 yd ³ minimum 1/project			
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 2020)			Same Frequency for all Tests (Minimums)								
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE									
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory						
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)															
Soils, Soil/Aggregate Mixtures and Graded Aggregates															
Granular Wall Backfill (See Section 02630.11) (1) Perform a minimum of 3 tests QL's required	Sampling Reducing (1) Sieve Analysis Fracture (Method 2)	TM 208	R 90 R 76 T 27 T 335		1792	1/Sublot (Minimum 1/Project)									
										Product Compliance	Abrasion Degradation	4000	See Section 4C 1/Source	Submit to Lab	Minimum 1/Project or 1/Source
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 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00512 - DRILLED SHAFTS									
Aggregate Production									
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing			R 90 R 76					
	(2)(3)(4) Sieve Analysis			T 27/T 11 T 27/T 11	1792	1/Sublot & Start of Production	1 per 10 Sublots		
(2) Perform a minimum of 3 tests, QL's required	(4) Fineness Modulus			T 176	1792				
	(1)(3) Wood Particles	TM 225							
(3) Coarse Aggregate (See Section 02690.20)	(4) Sand Equivalent								
	Soundness Abrasion			T 104 T 96	4000				See Section 4(A)
(4) Fine Aggregate (See Section 02690.30)	Degradation Lightweight Pieces	TM 208		T 113 T 21	4000	See Section 4A	Submit to Lab		
	Organics								
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight			T 19	1825 1825C				
	(3)(4) Bulk Specific Gravity & Absorption			T 84 & T 85	1825	Start of production and when changes in aggregate occurs			
Drilling Slurry		Materials must meet the requirements of Section 02001.10							
		Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)							
Grout		Material must meet the requirements of Section 02080							
		Material must meet the requirements of Section 02020							
Mixing Water									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE										
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory							
SECTION 00512 - DRILLED SHAFTS (CONTINUED)																
Portland Cement Concrete	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength	TM 2					QA Testing									
									(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	<u>Projects under 100 yd³ all classes</u> 1/Project representing all classes of PCC						
											3573WS or 4000C	<u>Projects over 100 yd³ all classes</u> 1/500 yd ³ per class minimum 1/class				
													4000C			
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>																
<p>TABLE 00512-1 Frequency of Quality Control Testing</p> <p><i>Minimum frequencies per Class of concrete based on daily production records.</i></p> <table border="1"> <thead> <tr> <th>Production</th> <th>Frequencies</th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td>1 Set each day</td> </tr> <tr> <td><u>Quantity Over 100 yd³</u> 100 to 600 yd³ on a single day</td> <td>1 Set per each 100 yd³ or portion thereof</td> </tr> <tr> <td>over 600 yd³ on a single day</td> <td>1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>									Production	Frequencies	0 to 100 yd ³ on a single day	1 Set each day	<u>Quantity Over 100 yd³</u> 100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof	over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³
Production	Frequencies															
0 to 100 yd ³ on a single day	1 Set each day															
<u>Quantity Over 100 yd³</u> 100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof															
over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³															

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	ASTM	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS								
Resin Bonded Anchor System								
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)								
<i>Materials must meet the requirements of Section 00535.10(a)</i>								
Anchor Installation								
Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements		E 488		5189		Visual	
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements		E 488		5189		Visual per Sublot	
^(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	ASTM	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS (continued)									
Mechanical Anchor System									
Mechanical Anchors							A Sublot equals 50 Anchors		
<i>Materials must meet the requirements of Section 00535.10(b)</i>									
Anchor Installation									
Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements		E 488		5292	One demonstration Test includes 3 anchors	Visual		
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements		E 488		5292	(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)	Visual per Sublot		
(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00540 - STRUCTURAL CONCRETE									
Aggregate Production	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent	TM 225		R 90 R 76 T 27/T 11 T 27/T 11 T 176	1792 1792	1/Sublot & Start of Production	1 per 10 Sublots		
(1) QAE may waive after 5 sublots/shifts									
(2) Perform a minimum of 3 tests, QL's required									
(3) Coarse Aggregate (See Section 02690.20)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96 T 113 T 21	4000 4000	See Section 4A	Submit To Lab		See Section 4A
(4) Fine Aggregate (See Section 02690.30)									
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight (3)(4) Bulk Specific Gravity & Absorption			T 19 T 84 & T 85	1825 1825C 1825	Start of production and when changes in aggregate occurs			
	Materials must meet the requirements of Section 02001.10								
Mixing Water	Material must meet the requirements of Section 02020								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)										
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE										
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory							
SECTION 00540 - STRUCTURAL CONCRETE (CONTINUED)																
Portland Cement Concrete	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength	TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000C	4000C	QA Testing	Projects under 100 yd ³ all classes 1/Project representing all classes of PCC									
							Projects over 100 yd ³ all classes 1/500 yd ³ per class minimum 1/class									
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>																
<p>TABLE 00540-1 Frequency of Quality Control Testing</p> <p><u>Minimum frequencies per Class of concrete based on daily production records.</u></p> <table border="1"> <thead> <tr> <th><u>Production</u></th> <th><u>Frequencies</u></th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td>1 Set each day</td> </tr> <tr> <td><u>Quantity Over 100 yd³</u> 100 to 600 yd³ on a single day</td> <td>1 Set per each 100 yd³ or portion thereof</td> </tr> <tr> <td>over 600 yd³ on a single day</td> <td>1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>									<u>Production</u>	<u>Frequencies</u>	0 to 100 yd ³ on a single day	1 Set each day	<u>Quantity Over 100 yd³</u> 100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof	over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³
<u>Production</u>	<u>Frequencies</u>															
0 to 100 yd ³ on a single day	1 Set each day															
<u>Quantity Over 100 yd³</u> 100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof															
over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³															

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory
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			
Polymer Resin	Material must meet the requirements of section 00556.10								

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

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS											
Aggregate Production											
⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Reducing ^{(2)/(3)/(4)} Sieve Analysis	R 90 R 76 T 27/T 11	TM 229 TM 225	T 96	1792	1 per 10 Sublots	1/5 Sublot & Start of Production	Submit to Central Lab	See Section 4(A)	See Section 4(A)	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.)
⁽⁴⁾ Sand Equivalent	T 176	1792	1/5 Sublots & Start of Production	See Section 4(A)	See Section 4(A)						
						⁽³⁾ Coarse Aggregate (See Section 02690.20)	^{(1)/(3)} Elongated Pieces ^{(1)/(3)} Wood Particles	TM 229 TM 225	T 96	4000	4000
⁽⁴⁾ Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208	T 104 T 113 T 21	4000	4000						
						⁽³⁾ Dry Rodded Unit Weight	T 19	1825 1825C 1825	T 84 & T 85	1825	1825
^{(3)/(4)} Bulk Specific Gravity & Absorption	T 84 & T 85	1825	T 84 & T 85	1825	1825						
						Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10				
Mixing Water	Materials must meet the requirements of Section 02001.10										
							Material must meet the requirements of Section 02020				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS (CONTINUED)												
Portland Cement Concrete	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield W/C Ratio	TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000 C	A subplot equals 1 set of tests per 50 yd ³			1 per 10 Sublots				
					Strength	T 22 & T 23	4000C		(M) (S) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift	1 Set per 500 yd ³		
											(M) Per Mix Design & Source	(S) 1 Set Represents a minimum of 3 Cylinders
SECTION 00590 - POLYMER MEMBRANE												
Broadcast Aggregate	Moisture Content		T 255/265	1792	Test at time of packaging and shipment. See Section 00590.10-c							
	Moisture Content		T 255/265	1792	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)								
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE								
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory					
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS														
Aggregate Production														
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T96	4000	See Section 4A	Submit to Lab			See Section 4A				
														See Section 4A
	Sampling Reducing Sieve Analysis Sand Equivalent Fracture (Method 1)			R 90 R 76 T 27 T 176 T 335	1792	1/Sublot				A Sublot equals 1,000 Tons Minimum 1/Project				
											1792	1/5 Sublots		
⁽³⁾ Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208		T 104 T 96 T 113	4000	See Section 4C & 02690	Submit To Lab			Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
											4000			
⁽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	1/Sublot				A Sublot equals 1,000 Tons				
											1792			
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sieve Analysis	TM 208		T 96 T 27	4000	See Section 4C	Submit To Lab			See Section 4C				
											4000	1/Sublot		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS										
Aggregate Production										
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Apparent Specific Gravity & Absorption Gradation	TM 208		T 104 T 85	4000 1825	See Section 4C	Submit to Lab	Visual	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00596A - MSE RETAINING WALLS								
Aggregate Production								
MSE Granular Wall Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index pH Resistivity Organic Content	TM 208		T96 T 11 T 90 T 289 T 288 T 267	4000 4000	See Section 4C	Submit to Central Lab	See Section 4C
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project								
A Sublot Equals 2,000 Tons								
MSE Granular Wall Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Reducing (¹) Sieve Analysis Sand Equivalent Fracture (Method 1)			R 90 R 76 T 27 T 176 T 335	1792 1792	1/Sublot		
Placement Establishing Maximum Density (¹) Method A	Density Curve			(¹) T 99	3468	1/Aggregate Gradation/Per Source		
	Bulk Specific Gravity			T 85	3468			
Compaction	Coarse Particle Correction	TM 223						
	Nuclear Gauge			T 310	1793B	1/ 100 yd3 (Minimum 1/day)		
	Deflection Testing	TM 158			1793B	1 per layer	Visual See section 00596A.47 (c-5)	
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 2020)			Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS											
Aggregate Production											
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T96	4000	See Section 4A	Submit to Lab			See Section 4A	
	Sampling Reducing Sieve Analysis Sand Equivalent			R 90 R 76 T 27 T 176		1/Sublot					
					T 335	1792	1/5 Sublots				
		Fracture (Method 1)									
						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 T 96	4000	See Section 4C & 02690	Submit To Lab			See Section 4C	
	Abrasion Degradation	TM 208			4000						
	Lightweight Pieces			T 113							
⁽³⁾ (See Section 2690.20(a) thru 2690.20(d) & 2690.20(f))											
⁽³⁾ Modular Block Core and Drainage Drainage Backfill	Sampling Reducing			R 90 R 76 T 27/T 11	1792	1/Sublot					
	⁽²⁾ Sieve Analysis				1792						
	⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		T 335							
⁽²⁾ Perform a minimum of 3 tests, QL's required											
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	See Section 4C	Submit To Lab			See Section 4C	
	Sieve Analysis				4000	1/Sublot					
					T27						
A Sublot equals 1,000 Tons											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS												
Aggregate Production												
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation	TM 208			T 104 T 85	4000	See Section 4C	Submit to Lab	See Section 4C	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project		
	Soundness											
	Apparent Specific Gravity & Absorption											
	Gradation							Visual				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		Materials Laboratory
		ODOT	WAQTC			AASHTO	Project Manager	
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS								
Aggregate Production								
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208	T 96 T 11 T 90	4000	See Section 4C	Submit to Central Lab	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C
				4000				
A Sublot Equals 2,000 Tons								
Retaining Wall Granular Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Reducing (¹) Sieve Analysis Sand Equivalent		R 90 R 76 T 27 T 176	1792	1/Sublot			
			T 335	1792				
Placement Establishing Maximum Density (¹) Method A	Density Curve Bulk Specific Gravity		(¹) T 99 T 85	3468	1/Aggregate Gradation/Per Source			
				3468				
Compaction	Coarse Particle Correction Nuclear Gauge	TM 223	T 310	1793B	1/100 yd3 (Minimum 1/day)			
				1793B				
<p style="text-align: center;">Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)										
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			Materials Laboratory								
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance									
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	See Section 4C	Submit To Lab			See Section 4C								
											Sampling Reducing Sieve Analysis	R 90 R 76 T 27	4000	1/Sublot			
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project																	
Retaining Wall Granular Backfill	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208	T 96 T 11 T 90	4000 4000	See Section 4C	Submit to Central Lab			See Section 4C								
A Sublot Equals 2,000 Tons																	
Retaining Wall Granular Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Reducing (¹) Sieve Analysis Fracture (Method 1)		R 90 R 76 T 27 T 335		1/Sublot												
											1792						
															1792	1/5 Sublots	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS									
Placement									
Retaining Wall Granular Backfill	Density Curve			(1) T 99	3468				
Establishing Maximum Density	Bulk Specific Gravity			T 85	3468	1/Aggregate Gradation/Per Source			
Compaction	Coarse Particle Correction	TM 223		T 310	1793B	1/ 100 yd3 (Minimum 1/day)			
	Nuclear Gauge				1793B	1 per layer			
	Deflection Testing	TM 158					Visual See section 00596C.42(f)		
<p>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</p>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE											
Aggregate Subbase Grading (See 00635.10)	Abrasion			T 96	4000	A Sublot equals 1000 Tons					See Section 4(A)
						1/Source	Submit To Central Lab				
	Sampling Reducing Sieve Analysis Sand Equivalent			R 90 R 76 T 27 T 176		1/Sublot & Start of Production					
					1792						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS								
Aggregate Production Aggregate Subbase Grading (See 00641.10(b))	Abrasion			T 96	4000	See Sec. 4A	Submit To Central Lab	See Section 4(A)
	Sampling Reducing Sieve Analysis Sand Equivalent			R 90 R 76 T 27 T 176		1/Project or 1/Source	Visual	
	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab	See Section 4A
	Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11) ⁽¹⁾ Perform at least 3 tests ⁽²⁾ May be waived by QAE			R 90 R 76 T 27 T 176 T 335		1/Sublot & Start of Production 1/5 Sublots & Start of Production		1 per 10 Sublots
Placement								
Aggregate Base Plant Mix Applications Only Aggregate (Mixture)	Sampling Reducing Moisture			R 90 R 76 T 255 & T 265		1/Sublot or minimum 1/Day		1 per 10 Sublots
	Density Curve Coarse Particle Correction Bulk Specific Gravity	TM 223		⁽³⁾ T 99 T 85	3468 B 3468 B	Each Size per Source		1/Project
	Deflection Testing Nuclear Gauge	TM 158		T 310	1793B 1793B	1 per Sublot ^(D) 5 Tests Per Sublot		^(D) 1 (5 Tests) per 10 Sublots
	Compaction ^(D) (Individual tests must meet Specification)							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2020)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory	
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)										
Placement										
Aggregate Subbase										
Compaction	Deflection Testing	TM 158			1793 B	1 per Layer	Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00680 - STOCKPILED AGGREGATES										
Aggregate Base and Shoulders (See Section 00641)										
(1) Perform at least 3 tests, QL's required (2) May be waived by QAE	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab			See Section 4A
	Sampling Reducing (1) Sieve Analysis (2) Sand Equivalent			R 90 R 76 T 27 T 176	1792	1/Sublot & Start of Production			1 per 10 Sublots	
	Fracture (Method 1)			T 335	1792	1/5 Sublots & Start of Production				
Aggregate (Sanding Aggregate)										
(1) May be waived by QAE	Sampling Reducing Sieve Analysis (1) Cleaness Value	TM 227		R 90 R 76 T 27	1792	1/Sublot & Start of Production			1 per 10 Sublots	
	Abrasion Degradation Lightweight Pieces	TM 208		T 96 T 113	4000 4000	See Section 4A	Submit to Lab			See Section 4A
	Fracture (Method 1) Elongated Pieces Wood Particles	TM 229 TM 225		T 335	1792 1792	1/5 Sublots & Start of Production			1 per 10 Sublots	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)												
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE												
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory									
SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)																		
Emulsified AC Aggregate Aggregate Production (See Sections 00705, 00706, 00710, 00711, 00712 and 00715) (1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight Sampling Reducing (5) Fracture (Method 1) (1) Wood Particles (1)(4) Elongated Pieces (2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight	TM 208 TM 225 TM 229 TM 227	T 96 T 104 T 113 T 19 R 90 R 76 T 335 T27/T 11 T 19	4000 4000 1792 1792 1825 1825C	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	See Section 4A 1/Sublot & Start of Production Start of production and when changes in aggregate occurs	Submit to Lab	1 per 10 Sublots	See Section 4A									
										Aggregate (Other)								
										<i>Use sampling and testing frequencies required for proposed end product use</i>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00705 - EMULSIFIED ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT											
Aggregate Production											
Aggregate Cover Material	Reducing Sieve Analysis			R 90 R 76 T 27	1792	1/Sublot & Start of Production	1 per 10 Sublots				
Asphalt Prime and Fog Coat Asphalt Cement (Emulsion)	Compliance			R 66	4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab				1/5 QC Samples (Random)
SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING											
Aggregate Production											
⁽¹⁾ Perform at least 3 tests, QL's required	Sampling Reducing			R 90 R 76 T 27/T 11	1792	1/Sublot & Start of Production					
	⁽¹⁾ Sieve Analysis										
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Compliance				4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab				1/5 QC Samples (Random)
Additives Mineral Filler											
Material must meet the requirements of Section 00706.13											
Mixture											
Material must meet the requirements of Section 00706.16											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT										
Aggregate Production										
<p>(1) QAE may waive after 5 sublots/shifts</p> <p>(2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated</p> <p>(3) May be waived by QAE</p> <p>(4) Not required for Dry Key Material</p> <p>(5) 1/5 Sublots & Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	Abrasion	TM 208	T 96	4000	See Section 4A	Submit to Central Lab	1 per 10 Sublots	See Section 4A	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	1/5 QC Samples (Random)
	Degradation		T 104							
	Soundness		T 113	4000						
	Lightweight Pieces		T 19							
	Dry Rodded Unit Weight		R 90							
	Sampling		R 76							
	Reducing		T 335	1792						
	(5) Fracture (Method 1)	TM 225	T27/T 11	1792	1/5 Sublot & Start of Production					
	(1) Wood Particles	TM 229			Start of production and when changes in aggregate occurs					
	(1)(4) Elongated Pieces				1/50 Tons Submit All	Submit to Lab				
(2) Sieve Analysis	TM 227									
(3) Cleaness Value										
Dry Rodded Unit Weight		T 19		1825						
Compliance		R 66		1825C						
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				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT							
Aggregate Production							
(1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production Asphalt Cement	Abrasion	TM 208	T 96	4000	See Section 4A	Submit to Central Lab	See Section 4A
	Degradation		T 104				
	Soundness		T 113				
	Lightweight Pieces		T 19	4000			
	Dry Rodded Unit Weight		R 90				
	Sampling Reducing		R 76				
	(5) Fracture (Method 1)		T 335	1792	1/Sublot & Start of Production		1 per 10 Sublots
	(1) Wood Particles	TM 225	T 27/T 11	1792			
	(1)(4) Elongated Pieces	TM 229					
	(2) Sieve Analysis	TM 227					
(3) Cleaness Value							
Dry Rodded Unit Weight		T 19		1825	Start of production and when changes in aggregate occurs		
Compliance		R 66		1825C			
				4000	1/50 Tons Submit All	Submit to Lab	1/5 QC Samples (Random)
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				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
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	
(1) Required at start of production and if meters fail to meet specification	Cold Feed Moisture		T 255/265		2043 & 2401	Daily Production	
Plant Discharge Moisture	Asphalt Mix Moist.		T 329		2277	1/Sublot or Min. 1/Day	
Asphalt Cement	Compliance		R 66		4000	1/50 Tons Submit All	1/5 QC Samples (Random)
						Submit to Lab	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)							
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE						
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT											
Aggregate Production											
Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight Sampling Reducing ⁽⁵⁾ Fracture (Method 1) ⁽¹⁾ Wood Particles ⁽¹⁾⁽⁴⁾ Elongated Pieces ⁽²⁾ Sieve Analysis ⁽³⁾ Cleaness Value Dry Rodded Unit Weight Compliance	TM 208 TM 225 TM 229 TM 227	T 96 T 104 T 113 T 19 R 90 R 76 T 335 T 27/T 11 T 19 R 66	4000 4000 1792 1792 1825 1825C 4000	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency							
				See Section 4A	Submit to Central Lab	1 per 10 Sublots	See Section 4A				
				1/Sublot & Start of Production							
				Start of production and when changes in aggregate occurs	Submit to Lab		1/5 QC Samples (Random)				
				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				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT							
Aggregate Production ⁽¹⁾ QAE may waive after 5 sublots/shifts ⁽²⁾ Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated ⁽³⁾ May be waived by QAE ⁽⁴⁾ Not required for Dry Key Material ⁽⁵⁾ 1/5 Sublots & Start of Production Asphalt Cement (Emulsion)	Abrasion	TM 208	T 96	4000	See Section 4A	Submit to Central Lab	See Section 4A
	Degradation		T 104				
	Soundness		T 113				
	Lightweight Pieces		T 19				
	Dry Rodded Unit Weight		R 90				
	Sampling		R 76				
	Reducing		T 335				
	⁽⁵⁾ Fracture (Method 1)						
	⁽¹⁾ Wood Particles	TM 225	T 27/T 11				
	⁽¹⁾⁽⁴⁾ Elongated Pieces	TM 229					
⁽²⁾ Sieve Analysis							
⁽³⁾ Cleaness Value	TM 227						
Dry Rodded Unit Weight		T 19					
Compliance		R 66					
Preproduced Aggregate							
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following: 1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following: a. One Per 5 sublots means "One Set of Tests Per 2500 Tons". b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. c. Provide one stockpile sample for each set of tests required above.							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Independent Assurance/Verification	Materials Laboratory
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	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab			1/5 QC Samples (Random)
Water	Compliance				4000	See Sec.00340.10				
Aggregate Production Choke Aggregate (See 00705)	Sampling Reducing Sieve Analysis			R 90 R 76 T 27	1792	1/Sublot & Start of Production		Minimum 1/Project		
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT										
<i>The type of recycling agent will be listed in the Special Provisions</i>										
Recycling Agent (See 00745.11)	Compliance			R 66	4000	See Section 4C	Submit to Lab			1/5 QC Samples (Random)
Recycling Agent	Compliance			R 66	4000	1/50 Tons	Submit to Lab			
Asphalt Concrete Mixture	New Asphalt Concrete mixture will meet the requirements of Section 00744									
SECTION 00730 - ASPHALT TACK COAT										
Tack	Compliance			R 66	4000	See Section 4C 1/50 Tons	Submit to Lab			1/50 Tons or All QC Samples

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT											
Aggregate production											
(1) Perform at least 3 tests, QL's required (2) May be waived by QAE (3) QAE may waive after 5 sublots/shifts	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000 4000	See Section 4A	Submit to Lab			See Section 4A	
		A Sublot equals 1000 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons)									
Choke Aggregate	Sampling Reducing (1) Sieve Analysis (2) Cleanness Value Fracture (Method 1 & 2) (3) Elongated Pieces (3) Wood Particles Sieve Analysis			R 90 R 76 T 27/T 11 T 335	1792 1792	1/Sublot & Start of Production		1 per 10 Sublots			
				T 27	1792	1/Sublot			1/Project		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)									
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			Materials Laboratory								
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance		Independent Assurance/Verification							
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)																	
Mixture Acceptance																	
% Emulsified Asphalt <i>⁽¹⁾ Required at start of production and if meters fail to meet specification</i>	Sampling Reducing Sieve Analysis Moisture Content Meter Backed by Tank Measure Daily			R 90 R 76 T 27/T 11 T 255		A Sublot equals 1000 Tons of Mixture											
						1/Sublot		1 per 10 Sublots									
						2277 2277											
						2401 & 2043		Daily Production									
Emulsified Asphalt Cement	Compliance																1/5 QC Samples (Random)
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)																	
See Specifications when Testing is Required by Agency																	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)								
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)												
Aggregate Production												
(1) QAE may waive after 5 sublots/shifts	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208			4000			See Section 4A	Submit to Lab		See Section 4A	
												T 104 T 96
												T 113 T 90
(2) Not required for ATPB Mix	Sampling Reducing (3)(4) Sieve Analysis (1)(4) Sand Equivalent				1792			1/Sublot & Start of Production			A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency	
(3) Coarse Agg (+ No. 4)												
(4) Fine Agg (- No. 4)												
	(1)(2)(3) Elongated Pieces (3)(4) Fracture (Method 2) (1)(2)(3) Wood Particles	TM 229 TM 225			1792			1/5 Sublots & Start of Production				
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				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)							
Mixture Acceptance - PAC with RAP							
Gradation							
Ignition method	(1) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons	
Ignition method	Sampling Reducing			R 97 R 47		1/JMF & Each Calendar Year.	
(Residual aggregate from AASHTO T 308)	Sieve analysis			T 30		1/Sublot or Min. 1/Day	
(1) Submit Samples a minimum of 2 Days Prior to ACP Production					2277	1/Sublot or Min. 1/day	
Asphalt Content							
Ignition Method	(1) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons	
Ignition Method	Sampling Reducing			R 97 R 47		1/JMF & Each Calendar Year.	
Meter Method	Asphalt Content			T 308		1/Sublot or Min. 1/day	
(2) Required at start of production and if meters fail to meet specification	Readings backed by Tank measure & Production Records Daily	TM 321 (2) TM 322			2277	1/Sublot or Min. 1/day	
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>					2043 & 2401	Daily Production	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)										
Mixture Acceptance - PAC without RAP										
Gradation										
Cold Feed Method	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	2277	1/Sublot or Min. 1/Day				
Ignition method	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.				
Ignition method	Sampling Reducing			R 97 R 47		1/Sublot or Min. 1/Day				
(1) Not required if Asphalt Content Accepted by Meter Method	Sieve analysis			T 30	2277	1/Sublot or Min. 1/day				
(Residual aggregate from AASHTO T 308)										
(1) Submit Samples a minimum of 2 Days Prior to ACP Production										
Asphalt Content										
Ignition Method	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.				
Ignition Method	Sampling Reducing			R 97 R 47		1/Sublot or Min. 1/day				
(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				
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>					2043 and 2401	Daily Production				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)						
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)										
Mixture Acceptance - PAC with and without RAP										
Mix Design Verification Testing										
	Cold Feed Moisture			T255/T265	2277	1/Sublot or Min. 1/Day				
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2277	1/Sublot or Min. 1/Day				
⁽¹⁾ RAP Percentage	⁽¹⁾ RAP Moisture			T 329	2277	1/Sublot or Min. 1/Day				
⁽¹⁾ If applicable	Readings backed by Tank measure & Production Records Daily		TM321 ⁽²⁾ TM 322		2401 & 2043	Daily Production				
Asphalt Cement	Compliance			R 66	4000	1/Sublot - See section 4C	Submit to Lab			1/5 QC Samples (Random)
⁽²⁾ Required at start of production and if meters fail to meet specification										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00744 - ASPHALT CONCRETE PAVEMENT								
Aggregate Production								
See Specifications when Aggregate Testing is Required by the Agency								
Mixture Acceptance Gradation								
Ignition method	(1) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons		
Ignition method	Sampling Reducing		R 97 R 47			1/JMF & Each Calendar Year.		
(Residual aggregate from AASHTO T 308)	Sieve analysis		T 30		2277	1/Sublot or Min. 1/Day		
(1) Submit Samples a minimum of 2 Days Prior to ACP Production						1/Sublot or Min. 1/Day		
Asphalt Content								
Ignition Method	(1) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons		
Ignition Method	Sampling Reducing		R 97 R 47			1/JMF & Each Calendar Year.		
	Asphalt Content		T 308		2277	1/Sublot or Min. 1/day		
Mix Design Verification Testing								
Plant Discharge Moisture	Asphalt Mix Moist.		T 329		2277	A Sublot equals 1000 Tons		
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 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
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			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)			Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE											
Aggregate Production	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208			4000	T 104 T 96 T 113 T 90			Submit to Lab		See Section 4A
(²) Perform a minimum of 3 tests QL's required											
(³) Coarse Agg (+ No. 4)											
(⁴) Fine Agg (- No. 4)											
Note: Sample Aggregate before Lime Treatment											
	Sampling Reducing (²)(³)(⁴) Sieve Analysis (¹)(⁴) Sand Equivalent				1792	R 90 R 76 T 27/T 11 T 176				1 per 10 Sublots	
	(¹)(³) Elongated Pieces (³)(⁴) Fracture (Method 2) (¹)(³) Wood Particles	TM 229 TM 225			1792	T 335					
	Sieve Analysis Deleterious Materials	TM 335			4000	T 27			Submit to Lab		
RAS Production (Reclaimed Asphalt Shingles)	Sampling Reducing Sieve Analysis Deleterious Materials	TM 335			1792	R 90 R 76 T 27					
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:

- Continuing production records meeting the above requirements of Section 00745.10 Aggregate Production.
- Furnish records of testing for the entire stockpile according to Section 00745.10 Aggregate Production except change the sampling frequency to the following:
 - One Per 5 sublots means "One Set of Tests Per 5000 Tons".
 - One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.
 - Provide one stockpile sample for each set of tests required above.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)							
A Sublot equals 1000 Tons							
Mixture Acceptance - ACP " With and Without RAP"							
Gradation	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	1/JMF & Each Calendar Year.
Ignition method	Sampling Reducing Sieve analysis			R 97 R 47 T 30		1/Sublot	1 per 10 Sublots
(Residual aggregate from AASHTO T 308)					2277		
(1) Submit Samples a minimum of 2 Days Prior to ACP Production							
A Sublot equals 1000 Tons							
Asphalt Content							
Ignition Method	(1) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	1/JMF & Each Calendar Year.
Ignition Method	Sampling Reducing Asphalt Content			R 97 R 47 T 308		1/Sublot or Min. 1/day	1 per 10 Sublots
(2) RAP Percentage	Meter Method	TM 321			2277		
(2) If Applicable		(3) TM 322				1/Sublot or Minimum 1/Day	1 per 10 Sublots
(3) Required at start of production and if meters fail to meet specification	(2) RAP Moisture Cold Feed Moisture			T 329 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 (3) TM 322				Daily Production	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)							
A Sublot equals 1000 Tons							
Mixture Acceptance - ACP "With and Without RAP"							
Mix Design Verification Testing Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity	TM 326	T 209	2050GV 2050 *5068 *2560 *5069	1/Sublot & according to Section 00745.16 (b)-1-d		1 per 10 Sublots
Determination of G_{mb}	Bulk Specific Gravity		T 166				
Stripping Susceptibility	Tensile Strength Ratio		T 283	2050tsr	1/JMF See Section 00745.16 (b)-1-f		
*Cat-II complete & submit as required, See Section 745.16(b)							
Plant Discharge Moisture	Asphalt Mix Moist.		T 329	2277	1/Sublot		
Maximum Density Test G_{mm}	Max. Specific Gravity MAMD	TM 305	T 209	2050	1st Sublot Daily or Min. 1/Day		
Performing Control Strip	Control Strip	TM 306		2084 *5069	Develop Rolling Pattern See Specs.		
Compaction	Nuclear Density		T 355	1793A	(D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2		(D) 1 per 10 Sublots
Asphalt Cement	Compliance		R 66	4000	1/Sublot See Section 4C	Submit to Lab	1 per 10 Sublots
(D) See T 355 Yellow Sheet for Density Test Locations							1/5 QC Samples (Random)

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE	
		ODOT	WAQTC		AASHTO	Contractor Quality Control
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)						
Mixture Acceptance - ACP "With and Without RAP"						
Mix Design Verification Testing						
Lime						
Latex						
Lime or Latex Treatment of Aggregate (Stockpile or Mixture Production)	(1) % Hydrated Lime	TM 321 (2) TM 322			1/Sublot	1 per 10 Sublots
(2) Required at start of production and if meters fail to meet specification	Readings backed by Tank Measure & Production Records Daily			2401 ACP	Daily Production	
(1) If Applicable						
(1) See JMF for Details						
Smoothness						
Certification of Profiler Equipment		TM 769			See Special Provisions	
Determining Profile Index		TM 770				
Determining International Roughness Index		TM 772				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR								
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT								
SECTION 00756 - PLAIN CONCRETE PAVEMENT								
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent	R 90 R 76 T 27/T 11	1792	1792	1792	1792	1 per 10 Sublots	See Section 4A
(2) Perform a minimum of 3 tests, QL's required	(1)(3) Wood Particles (3) Fracture (Method 2) (1)(3) Elongated Pieces	TM 225 TM 229	1792	1792	1792	1792	1 per 10 Sublots	See Section 4A
(4) Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208	4000	4000	4000	4000	Submit to Central Lab	See Section 4A & 02690
(3) Dry Rodded Unit Weight	(3)(4) Bulk Specific Gravity & Absorption	T 19 T 84 & T 85	1825	1825C	1825	1825	Start of production and when changes in aggregate occurs	See Section 4A

A Sublot equals 1000 Tons

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT SECTION 00756 - PLAIN CONCRETE PAVEMENT SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR (CONTINUED)								
Portland Cement Concrete								A Sublot equals 1000 lane feet of slip formed pavement or 100 yd ³ of non-slip formed PCC
Portland Cement Modifiers Admixtures		Materials must meet the requirements of Section 02001.10						
Curing Compounds		Material must meet the requirements of Section 02050						
Mixing Water		Material must meet the requirements of Section 02020						
^(S) 1 Set Represents a minimum of 3 Cylinders ^(M) Per Mix Design & Source	Sampling		TM 2	T 152 T 119 T 121 T 121 T 309 T 121	3573WS or 4000C			
	Air Content							
	Slump							
	Density (Unit Weight)							
	Yield							
Concrete Temperature								
Water/Cement Ratio					4000C			
Batching								
Strength				T 22 & T 23				
Smoothness Certification of Profiler Equipment Determining IRI with an Inertial Laser Profiler Thickness of Pavement		TM 769				^(M) ^(S) 1 Set of Cylinders per Sublot or Minimum 1 set per Day		1 per 10 Sublots
		TM 772						1 per 10 Sublots
		TM 775					See Special Provisions	
	Sticking Measure							See Specs

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2020)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
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					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2)(3)(4) Sieve Analysis (4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent	TM 225	R 90 R 76 T 27/T 11 T 27/T 11	AASHTO	1792	1 per 10 Sublots	Submit to Lab	See Section 4(A)
(2) Perform a minimum of 3 tests, QL's required	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208	T 104 T 96 T 113 T 21	AASHTO	4000	See Section 4A	Submit to Lab	See Section 4(A)
(3) Coarse Aggregate (See Section 02690.20)	(3) Dry Rodded Unit Weight		T 19	AASHTO	1825 1825C 1825	Start of production and when changes in aggregate occurs	Submit to Lab	See Section 4(A)
(4) Fine Aggregate (See Section 02690.30)	(3)(4) Bulk Specific Gravity & Absorption		T 84 & T 85	AASHTO	1825	Start of production and when changes in aggregate occurs	Submit to Lab	See Section 4(A)
Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10							
Drilling Slurry	Slurry material must meet the requirements of Section 00921.14 & 00921.43(g)							
Grout	Material must meet the requirements of Section 02080							
Mixing Water	Material must meet the requirements of Section 02020							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2020)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS										
Portland Cement Concrete	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength		TM 2	T 119 T 309 T 121 T 121 T 121	3573WS or 4000C 4000C					QA Testing
(S) 1 Set Represents a minimum of 3 Cylinders						(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.				Projects under 100 yd³ all classes 1/Project representing all classes of PCC
(M) Per Mix Design & Source										Projects over 100 yd³ all classes 1/500 yd ³ per class minimum 1/class
TABLE 00512-1 Frequency of Quality Control Testing										
Minimum frequencies per Class of concrete based on daily production records.										
			Production	0 to 100 yd ³ on a single day		1 Set each day		Frequencies		
			Quantity Over 100 yd³	100 to 600 yd ³ on a single day over 600 yd ³ on a single day		1 Set per each 100 yd ³ or portion thereof 1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³				

INSERT TAB

2. NTMAG

OREGON DEPARTMENT OF TRANSPORTATION
CONSTRUCTION SECTION

NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE
2021 STANDARD SPECIFICATIONS

January 2021 UPDATE



Updated versions of this guide are available by printing from the web address listed below. This document is to be used as a guide for documentation required for acceptance of materials on ODOT Construction projects and does not relieve the user of requirements specified in the Construction Project Documents. Please notify the Contract Administration Unit, in the Construction Section at the ODOT Materials Laboratory, of any changes in Standard Drawings, Special Provisions, or Standard Specifications, etc., which would require additions to, deletions from, or changes to this listing.

Internet Address: <https://www.oregon.gov/ODOT/Construction/Pages/Structure-Services.aspx>

Contact 503-986-3029 to have correction made to this guide. A summary of changes since last publication is found at the end of this document.

*Special Provisions, Contract Plans, and Standard Specifications take precedence over the information in this guide. Refer to the Contract for documentation requirements.

January 2021 Update

2021 STANDARD SPECIFICATIONS

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS
				FURNISHED BY CONTRACTOR TO LAB ENGINEER	BY MATERIALS LAB	BY FIELD	

This guide provides a summary of acceptance documents for frequently used items. New Materials or Materials which are infrequently used may not be listed in this guide. Consult the Contract Documents for acceptance documentation for these items.

This guide does not have precedence over the Special Provisions, Contract Plans, or Standard Specifications.*

- E – Equipment Lists and Drawings / Procedures
- L – ODOT Central Materials Laboratory Report
- I – ODOT Structure Services Inspection Report
- W – Warranty (Manufacture or Workmanship)
- P – Proof of License/Certification or Apprentice Application
- M – Manufacturer’s Field Representative Report
- F – Field Inspection Report (FIR)
 - *More information in Summary of Changes or form 734-2605 instructions.*
 - O – Certificate of Materials Origin (CMO)
 - BG – Blue and Green Sheets (see Sec. 00960, 00970 or 00990)
 - R – Field Report
 - P/R – DEQ Permit or Compost Producer Registration

Q - Quality Compliance Certificate – The certificate shall be from the manufacturer and shall:

- Verify that the Material meets the Specifications, and identify by number the specified test methods used, (ODOT, AASHTO, ASTM, UL, or other)
 - Permit positive determination that Material delivered to the Project is the same Material covered by the certificate
 - Be delivered to the Engineer with the shipment of the Material, or be an identification plate or mark, decal, sticker, label, or tag attached to the container or Material.
- T - Test Results Certificate** – The certificate shall:
- Be from the manufacturer, verifying that the Material furnished has been sampled and tested and the test results meet the Specifications
 - Include, or be accompanied by, a copy of the specified test results (ODOT, AASHTO, ASTM, UL or other)
 - Identify the testing agency and the representative responsible for the test results
 - Permit positive determination that Material delivered to the Project is the same Material covered by the test results
 - Be delivered to the Engineer with the shipment of the Material.

Small Quantity - A method for accepting relatively small quantities of Materials as noted in this guide without normal sampling and testing. Normal acceptance of Materials may be waived by the Engineer when requested in writing by the Contractor. **Small quantity acceptance requirements are listed in this guide along with the maximum amount of Material that can be accepted as small quantity.**

QPL – For some Materials, this guide will refer to the Qualified Products List (QPL). For QPL Materials, the QPL number must be entered into the Contractor Payment System regardless of the method of documentation.

- When using an “A” listed product, document with an FIR/Pay Note citing the QPL product number.
- When using a “Q” listed product, document with an FIR/Pay Note citing the QPL product number, and attach additional documentation required by this guide.
- When using a product approved after the QPL in effect for the Project, document with an FIR/Pay Note and attach a copy of the product approval letter or page from the later edition of the QPL.

For products submitted by the Contractor that are not listed on the QPL, follow section 00160.05 of the Standard Specifications or Special Provisions.

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB		BY FIELD
00200 - TEMPORARY FEATURES AND APPURTENANCES								
00205	Field Laboratory, Weighhouse, etc.						Section does not contain any nonfield-tested materials. Section removed from Standard Specifications; now Boilerplate Special Provision.	
00210	Mobilization						Section does not contain any nonfield-tested materials.	
00220	Accommodations for Public Traffic						Section does not contain any nonfield-tested materials.	
00221	Common Provisions for Work Zone Traffic Control <i>Engineer must ensure specified Materials and measures for Work Zone Traffic Control are used and documentation provided as required in this guide.</i> <i>For temporary items under 00221, Engineer must verify items are as required by Contract Documents and functioning as intended.</i>	Traffic Control Plan - Agency TCP - Contractor Modified TCP - Tourist-Oriented Directional and Business Logo Signs Temporary Protection and Direction of Traffic Work Zone Fencing	00221.06 00221.06(a) 00221.06(b), 00150.35 00221.06(c) 00221.10 00221.90(b) 00223.31 00223.42 00221.13	E R			"E" is submittal(s) according to 00221.06 for approval 5 Calendar Days before preconstruction conference. "R" is Traffic Control Inspection Report according to 00221.90(b). "F" must document visual verification. "F" must document visual verification. "F" must document visual verification. Posts may be untreated.	
00222	Temporary Traffic Control Signs <i>Engineer must ensure specified Materials and measures for Temporary Traffic Control Signs are used and documentation provided as required in this guide.</i> <i>For temporary items under 00222, Engineer must verify items are as required by Contract Documents and functioning as intended.</i>	Sign Supports - Wood Sign Posts - Temporary Sign Supports - Portable Sign Supports - Perforated Steel Square Tube Sign Supports Sign Covers - Temporary Signs - Permanent Signs Temporary Electrical Signs - Sequential Arrow Signs - Portable Changeable Message Signs (PCMS) - Radar Speed Trailers	00222.10 00222.10(b) 00222.10(d) Refer to 00910 in this guide. 00222.11(b) 00222.11(e) Standard Drawings 00222.12 00222.12(a) Refer to 00941 in this guide. 00222.15 00222.15(a) 00222.15(b) 00222.15(c)	F, QPL F, QPL F, QPL F, QPL F, QPL F, QPL			"F" must document visual verification. "F" must document visual verification. Refer to QPL 00930. "F" and "QPL" if from QPL. "F" must document visual verification. "F" must document visual verification.	

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				FURNISHED BY CONTRACTOR TO	BY MATERIALS LAB	BY FIELD		
00223	<p>Work Zone Traffic Control Labor and Vehicles</p> <p><i>Engineer must ensure specified Materials and measures for Work Zone Traffic Control Labor and Vehicles are used and documentation provided as required in this guide.</i></p> <p><i>For temporary items under 00223, Engineer must verify items are as required by Contract Documents and functioning as intended.</i></p>	Flagger Station Lighting	00223.22				F, QPL	"F" must document visual verification.
		Automated Flagger Assistance Device	00223.23	E			F, QPL	"E" is submittal(s) according to 00223.23 and 00150.37, a minimum of 21 Calendar Days in advance of use. "F" must document visual verification.
		<ul style="list-style-type: none"> Personnel Qualifications - Pilot Car Operators - Flaggers - Automated Flagger Assistance Device Operator - Pedestrian Transport Vehicle Operator 		P				"P" is current Flagger Certification according to 00223.30.
		<ul style="list-style-type: none"> Traffic Supervision - Traffic Control Supervisor 	00223.31(a) 00223.30 00221.01(c)	P, R				"P" is current Flagger Certification according to 00223.30 ODOT and "Oregon Certified Traffic Control Supervisor" card according to 00223.31(a). "R" is Traffic Control Inspection Report according to 00223.31(a).
		<ul style="list-style-type: none"> - Traffic Control Inspection Without TCS 	00223.31(b) 00223.30 00221.01(c)	P, R				"P" is current Flagger Certification according to 00223.30. "R" is Traffic Control Inspection Report according to 00223.31(b).
00224	<p>Temporary Traffic Channelizing Devices</p> <p><i>Engineer must ensure specified Materials and measures for Temporary Traffic Channelizing Devices are used and documentation provided as required in this guide.</i></p> <p><i>For temporary items under 00224, Engineer must verify items are as required by Contract Documents and functioning as intended.</i></p>	<ul style="list-style-type: none"> Channelizing Devices - Tubular Markers - Conical Markers - Surface Mounted Tubular Markers 	00224.10 00224.11 00224.12				F, QPL	"F" must document visual verification. Refer to QPL 00856 for Surface Mounted Tubular Markers.
		Plastic Drums	00224.13				F, QPL	"F" must document visual verification.
		<ul style="list-style-type: none"> Delineators - New or Salvaged > Guardrail > Temporary Barrier 	00224.14 00840 00224.14(a) Type 4 00224.14(b) Type 5					"F" must document visual verification and use of any salvaged materials. "QPL" is for new delineators.
		Barricades	00224.15				F, QPL	"F" must document visual verification.
		Standard Drawings						

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								LAB
00225	Temporary Pavement Marking <i>Engineer must ensure specified Materials and measures for Temporary Pavement Marking are used and documentation provided as required in this guide.</i>	Temporary Pavement Markers	00225.10			F, QPL	"F" must document visual verification. Refer to QPL 00855.	
		- Reflective Pavement Markers	00225.10(a) Type 1					
		- Flexible Oiling Pavement Markers	00225.10(b)					
		- Flexible Overlay Pavement Markers	00225.10(c)					
	For temporary items under 00225, Engineer must verify items are as required by Contract Documents and functioning as intended.	Temporary Tape	00225.11				F, QPL	"F" must document visual verification.
		- Removable						
		- Non-Removable						
		- Non-Reflective						
	Painted Striping	00225.12					F, QPL	"F" must document visual verification. Refer to QPL 00850 for Beads and 00860 for Paint.
		- Paint	00225.12(a)					
	- Beads	00225.12(b)						
	Temporary Transverse Rumble Strips	00225.14					F, QPL	"F" must document visual verification.
	00226	Temporary Roadside Barriers and Impact Attenuators <i>Engineer must ensure specified Materials and measures for Temporary Roadside Barriers and Impact Attenuators are used and documentation provided as required in this guide.</i>	Temporary Guardrail	00226.10			F, QPL	"F" must document visual verification guardrail stamped AASHTO M180, straight and free of breaks, kinks or dents. Temporary guardrail may be from other Projects, document use of salvaged materials on "F".
			- New Guardrail Materials	00810				
- Salvaged Guardrail Materials			00810.15					
Temporary Barrier and Appurtenances			00226.11				F, QPL	"F" must document visual verification. Temporary concrete barrier must be from ODOT approved manufacturer listed in 00820.11 of this guide, document on "F".
- Temporary Barrier (QPL or Temporary Concrete Barrier)		00226.11(a)						
- Reflective Barrier Panels		00226.11(b)						
- Glare Shields		00226.11(c)					"QPL" is for Temporary Barrier, Reflective Barrier Panels and Glare Shields. Refer to QPL 00820.	
Temporary Impact Attenuators		00226.12				F, QPL	"F" must document visual verification. Refer to QPL 00830.	
Standard Drawings		Standard Drawings						
Truck Mounted Attenuator		00226.23				F, QPL	"F" must document visual verification.	

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00227	Temporary Traffic Signals and Illumination <i>Engineer must ensure specified Materials and measures for Temporary Traffic Signals and Illumination are used and documentation provided as required in this guide.</i> <i>For temporary items under 00227, Engineer must verify items are as required by Contract Documents and functioning as intended.</i>	Temporary Illumination	00227.10 00960 00970 02926 Temporary Illumination Plans			BG	"BG" is according to 00960 and 00970 in this guide for illumination. Traffic Section's Signal Standards Group has two lists to simplify Contractor submittals: "Blue Sheets - Submittals for Field Qualification" and "Green Sheets - Submittals for Conditional Qualification." Refer to 00960 and 00970 for specific material information.	
		Temporary Traffic Signals	00227.12 00960 00990 02120	E	BG	"E" is submittal(s) according to 00227.12, 00150.35 and 02120.10. "BG" is according to 00960 and 00990 in this guide for signal equipment. Traffic Section's Signal Standards Group has two lists to simplify Contractor submittals: "Blue Sheets - Submittals for Field Qualification" and "Green Sheets - Submittals for Conditional Qualification." Refer to 00960 and 00990 for specific material information.		
00228	Temporary Pedestrian and Bicyclist Routing <i>Engineer must ensure specified Materials and measures for Temporary Pedestrian and Bicyclist Routing are used and documentation provided as required in this guide.</i> <i>For temporary items under 00228, Engineer must verify items are as required by Contract Documents and functioning as intended.</i>	Portable Traffic Signals	00227.13			F, QPL	"F" must document visual verification.	
		Pedestrian Channelizing Devices	00228.10 Standard Drawings Traffic Control Plan			F, QPL	"F" must document visual verification.	
		Bicycle Channelizing Devices	00228.12			F, QPL	"F" must document visual verification.	
		Temporary Curb Ramps	00228.13 Standard Drawings			F, QPL	"F" must document visual verification.	
00229 Special Provision	Smart Work Zone Systems <i>Refer to Special Provisions for any additional Contract-specific requirements.</i>	Temporary Walks	00228.14			F, QPL	"F" must document visual verification.	
		Smart Work Zone Systems	00229.10 00229.30 00229.45 00225.46	R		F, QPL	"R" is traffic data logs per 00229.45.	
		Work Zone Traffic Control Devices - Portable Changeable Message Signs (PCMS) - Barricades - Drums	Refer to 00222 in this guide. Refer to 00224 in this guide.					

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				FURNISHED BY CONTRACTOR TO LAB ENGR.	BY MATERIALS LAB	BY FIELD	
00231 Special Provision	Temporary Access Road <i>Refer to Special Provisions for any additional Contract-specific requirements.</i>	Geotextile	Refer to 00350 in this guide.				
		Geogrid	Refer to 00350 in this guide.				
		Permanent Seeding	Refer to 01030 in this guide.				
00240	Temporary Drainage Facilities	Section does not contain any nonfield-tested materials.					
00245 Special Provision	Temporary Water Management <i>Refer to Special Provisions for any additional Contract-specific requirements.</i>	Temporary Water Management Plan	00245.03	E			"E" is submittal(s) according to 00245.03 and 00150.35, 28 Calendar Days before beginning work in regulated Work areas. Do not begin Work in in-water Work areas without written approval from Engineer.
		Concrete Barrier	Refer to 00820.11 in this guide.				
		Pipe	Refer to 00445.11 in this guide.				
		Rock Gabion Baskets	Refer to 00596A in this guide.				
		Turbidity Monitoring	00245.60	R			"R" is Turbidity Monitoring Reports according to 00290.30(a)(8).
		Submittals	00250.03	E			"E" is submittal(s) according to 00250.03 and 00150.35, at least 14 days before preinstallation conference.
00250 Special Provision	Diversion Bridges <i>Refer to Special Provisions for any additional Contract-specific requirements.</i>	New Material	Refer to 00500 in this guide.				
		- Precast Prestressed Concrete Members	Refer to 00550 in this guide.				
		Used Material	00250.10(c)				
		- Structural Steel Members > Documented Steel > Undocumented Steel	00250.10(c)(2) 02530	T, Q, O		F	
		- Timber Members	Refer to 00570 in this guide.				
		- Piling, Steel Piles	Refer to 00520 in this guide.				Used timber piles not allowed.
		Submittals	00253.03	E			"E" is submittal(s) according to 00253.03 and 00150.35, a minimum of 21 Calendar Days before preconstruction conference.
00270	Temporary Fences	New Materials	Refer to 01050.10 in this guide.				Refer to Contract Documents for required Materials.
		Temporary Barrier	Refer to 00226.11(a) in this guide.				Refer to Contract Documents for required Materials.

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				FURNISHED BY CONTRACTOR TO	BY MATERIALS LAB	BY FIELD		
00280	Erosion and Sediment Control (ESC) <i>Engineer must ensure specified Materials and measures for Erosion and Sediment Control are used and documentation provided as required in this guide.</i> <i>For temporary items under 00280, Engineer must verify items are as required by Contract Documents and functioning as intended.</i> <i>For permanent items under 00280, Engineer must acquire and retain the required documentation.</i> (continued on next page)	Erosion and Sediment Control Plan - on Agency Controlled Lands - on Non-Agency Controlled Lands	00280.04 00280.05	E				"E" is submittal(s) according to 00280.04 and 00280.05 at least 10 Calendar Days before preconstruction conference. Note on test summary the date plan was received. Plan does not need to be submitted with semi-final documentation for non-Doc Express Projects.
		Erosion and Sediment Control Manager	00280.30	P				"P" is current ODOT ESCM certification or documentation of successful completion of alternative erosion control training accepted by Engineer submitted according to 00280.30 at least 10 Calendar Days before preconstruction conference.
		Erosion and Sediment Control Monitoring	00280.30 00280.62	R				"R" is Erosion and Sediment Control Monitoring Reports according to 00280.30 and 00280.62.
		Seed (Temporary)	01030.13	T		F		"T" is germination and purity information from tag on seed bag. For permanent seed refer to 01030.
		Fertilizer	01030.14	Q		F		"Q" is from manufacturer.
		Mulch, Hydromulch (temporary or permanent)	00280.14(d) 01030.15(a)	Q		F, QPL		"QPL" is for hydromulch fiber.
		Mulch, Straw (temporary or permanent)	00280.14(d) 01030.15(b)	T or Q		F		"T" is seed lab test results for weed seed content. "Q" is "Oregon Certified Seed" field source, or Department of Agriculture certified weed free.
		Slope and Channel Liner Matting – Bonded Fiber Matrix	00280.14(e)			F, QPL		
		Check Dams - Cereal Straw Based Products	00280.15(a) 01030.15(b)			F		"T" is seed lab test results for weed seed content. "Q" is "Oregon Certified Seed" field source, or Department of Agriculture certified weed free. Use of prefabricated systems from the QPL "A" or "Q" list satisfies "Q" requirement.

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB	BY FIELD	
				LAB	ENGR.			
00280 (cont)	Erosion and Sediment Control (ESC) (continued)	Compost	00280.14(f) 00280.15(a) Type 6 00280.15(f) 00280.15(g) 00280.16(d) Type 7 00280.16(e) Type 8&9 03020.00	T, Q, P/R			F	"T" is STA lab analysis of compost. "Q" is from Supplier according to 03020.10 and 00165.35. "P/R" is copy of the DEQ permit or registration of compost Supplier. Note: Tackifier required according to 00280.14(b)(2) for Compost Erosion Blanket and/or Compost Berm.
		Sediment Barrier – Cereal Straw Based Products	00280.16(e) 01030.15(b)	T or Q			F	"T" is seed lab test results for weed seed content. "Q" is "Oregon Certified Seed" field source, or Department of Agriculture certified weed free.
		Straw Bales	00280.14(g) 01030.15(b)	Q			F	Use of prefabricated systems from the QPL "A" or "Q" lists satisfies "Q" requirement. "Q" is "Oregon Certified Seed" field source, or Department of Agriculture certified weed free.
00290	Environmental Protection	Sediment Control - Geotextile Environmental Protection Turbidity Monitoring Pollution Control Plan	Refer to 00350 in this guide. Refer to Contract Specifications for restrictions and required submittals. 00290.30(a)(8) 00290.30(b)			R E		"R" is Turbidity Monitoring Reports according to Special Provision 00290.30(a)(8). Note on test summary the date plan was received. Plan does not need to be submitted with semi-final documentation for non-Doc Express Projects.
00300 - ROADWORK								
00305	Construction Survey Work	Section does not contain any nonfield-tested materials. Former Boilerplate Special Provision now in Standard Specifications.						
00310	Removal of Structures and Obstructions	Section does not contain any nonfield-tested materials.						
00320	Clearing and Grubbing	Section does not contain any nonfield-tested materials.						
00330	Earthwork	Selected Topsoil	Refer to 01040 in this guide.					
00331	Subgrade Stabilization	Subgrade Geotextile Subgrade Reinforcement Geogrid	Refer to 00350 in this guide. Refer to 00350 in this guide.					

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB		BY FIELD
00335	Blasting Methods and Protection of Excavation Backslopes	Blasting Plan	00335.40(d)	E			"E" is submittal(s) according to 00335.40(d) at least 21 Calendar Days before beginning drilling for excavations or when any perimeter controlled blasting is required.	
				R			"R" is submittal(s) according to 00335.40(h) within 48 hours of making each blast.	
						F, QPL	"F" and "QPL" when called for by Special Provisions or ordered.	
00340	Watering	Additives	00340.11					
00344	Treated Subgrade	Section does not contain any nonfield-tested materials. Section removed from Standard Specifications; now Boilerplate Special Provision.						
00350	Geosynthetic Installation	Geotextile	00350.10 02320.10(a)(1) 02320.10(c)(1) 02320.20	T			"T" is from fabric manufacturer.	
						F	"F" must document production run numbers for delivered material.	
				T		F, QPL	"T" is from geogrid manufacturer. "F" must document production run numbers for delivered material.	
00350.10 02320.10(a)(2) 02320.10(c)(2)	Subgrade Reinforcement Geogrid	Type 1 MSEW Geogrid	00350.10 02320.10(a)(2) 02320.10(c)(2)	T			When using products from QPL 02320.10 "Subgrade Reinforcement Geogrid" for Base Course reinforcement applications, refer to Contract Documents for additional testing requirements.	
						F, QPL	Geogrid must be Type 1 MSEW Geogrid.	
							"T" is manufacturer's: - minimum average roll value meeting or exceeding specifications according to 02320.10(b) - test certification according to 02320.10(c)(2) - testing according to 02320.10(d) "F" must document production run numbers for delivered material.	
00360	Drainage Blankets	Section does not contain any nonfield-tested materials. Section removed from Standard Specifications; now Boilerplate Special Provision.						
00370	Finishing Roadbeds	Section does not contain any nonfield-tested materials.						
00390	Riprap Protection	Geotextile	Refer to 00350 in this guide.					

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB	BY FIELD				
									LAB	ENGR.	
00396	Shotcrete Slope Stabilization	Shotcrete	00396 00396.02		E			"E" is submittal(s): - according to 00396.02 and 00150.37, at least 28 Calendar Days before preconstruction conference; and - according to 00396.30 at least 7 Calendar Days before beginning shotcrete Work. Refer to Contract Documents for quality documentation requirements.			
00398	Rock Slope Stabilization and Reinforcement	Reinforcement - Bar and Welded Wire Fabric	Refer to 00530 in this guide.								
00398	Rock Slope Stabilization and Reinforcement	Polyvinyl Chloride Pipe (PVC)	02415.50		Q		F	"Q" is markings on pipe. "F" must document manufacturer's name, size and ASTM designation.			
00398	Rock Slope Stabilization and Reinforcement	Curing Materials	02050.10		Q		F, QPL	No testing required when used on shotcrete Slope stabilization.			
00398	Rock Slope Stabilization and Reinforcement	Grout, Non-Epoxy	02080.20				F, QPL				
00398	Rock Slope Stabilization and Reinforcement	Steel Fiber Reinforcement	00396.13		Q, O		F	"T" is from manufacturer. "Q" is from galvanizer. "R" is field verification of pullout testing on not less than 25% of anchors.			
00398	Rock Slope Stabilization and Reinforcement	Plain Carbon Steel - Anchor Bolts - Plates, Washers, Nuts - Wire Rope - Posts, Braces, Appurtenances - Support Ropes - Hardware - Wire Mesh	00398.10(a), 00398.46 00398.10(b) 00398.10(c) 00398.11 00398.12 00398.13 00398.14		T, Q, O, R		F				
00398	Rock Slope Stabilization and Reinforcement	Grout, Non-Epoxy	00398.10(e) 02080.20				F, QPL				
00398	Rock Slope Stabilization and Reinforcement	Cable Net	00398.15		Q, O		F	"Q" is from fabricator and galvanizer.			
00398	Rock Slope Stabilization and Reinforcement	Rock Reinforcing Bolts	00398.03(a) 00398.16(a) 00398.50(b)(3)		O, E, R		F, QPL	"E" is submittal(s) according to 00398.03(a) and 00150.37, at least 10 Calendar Days before preconstruction conference. "R" is field proof testing of bolts. Do not proceed with the Work until the Engineer has approved the Work plan in writing.			

(continued on next page)

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB	BY FIELD	
00398 (cont)	Rock Slope Stabilization and Reinforcement (continued)	Rock Reinforcing Dowels	00398.03(a)				F	"E" is submittal(s) according to 00398.03(a) and 00150.37, at least 10 Calendar Days before preconstruction conference.
			00398.16(b)					"R" is field proof testing of at least 10% but not less than 3 dowels.
		00398.50(c)(2)					Do not proceed with the Work until the Engineer has approved the Work plan in writing.	
							Proprietary system must meet Contract Specifications.	
		Flexible Rockfall Barrier Systems	00398.03(b)		T, O, E	F	"E" is submittal(s): - according to 00398.03(b), 00150.35 and 00150.37, at least 30 Calendar Days before beginning fabrication or construction; and - according to 00398.03(b)(2) at least 10 Calendar Days before preconstruction conference.	
		Anchored High Tensile Strength Steel Wire Mesh Slope Protection	00398.03(c)		T, O, E, R	F	"T" is from manufacturer. "Q" is from galvanizer. "E" is submittal(s) according to 00398.03(c) and 00150.37, at least 10 Calendar Days before preconstruction conference.	
			00398.18				"R" is field proof testing of anchor nails.	
			00398.52				Do not proceed with the Work until the Engineer has authorized the Work plan in writing.	
		Personnel	00398.03(d)		P		"P" is personnel according to 00398.03(d) and 00398.32, at least 10 Calendar Days before preconstruction conference. Manufacturer Field Representative must be at the system preconstruction conference and available as needed during construction.	
			00398.32					

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				LAB	ENGR.			
00400 - DRAINAGE AND SEWERS								
00405	Trench Excavation, Bedding, and Backfill	Section does not contain any nonfield-tested materials.						
00406	Tunneling, Boring, and Jacking	Tunneling	00406.41(a)	E		F	"E" is submittal(s) according to 00406.41 and 00150.35 before beginning the Work.	
		Boring and Jacking	00406.41(b)	E		F	"E" is submittal(s) according to 00406.41 and 00150.35 before beginning the Work.	
		Pipe	Refer to 00445 in this guide					
		Casing	00406.12	O		F		
00410	Common Provisions for Pipe Lining Section removed from Standard Specifications. Not a Boilerplate Special Provision. Section deleted.							
00411	Pipe Bursting and Slip Lining	Pipe	00411.01 00411.10	E, Q		F	"E" is submittal(s) according to 00411.01 and 00150.35 at least 10 Calendar Days before preconstruction conference. "Q" is from manufacturer.	
		Video Pipe Inspection	Refer to 00415 in this guide.					
		Cured-in-Place Pipe Lining (CIPP)	00412.01 00412.02 00412.30 00412.42(a) 00412.71 00412.75	E, W		F	"E" is submittal(s) according to 00412.01 and 00150.35 at least 10 Calendar Days before preconstruction conference. "W" is one year workmanship warranty according to 0170.85(b)(1). There is no paper warranty.	
00412	Cured-in-Place Pipe Lining (CIPP)	Tube	00412.10	Q		F	"Q" is from manufacturer.	
		Resin	00412.11	Q		F	"Q" is from manufacturer.	
		Liner	00412.12	Q		F	"Q" is from manufacturer.	
		Video Pipe Inspection	Refer to 00415 in this guide.				At least 5 Calendar Days before beginning pipe lining Work and post-installation.	

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				FURNISHED BY CONTRACTOR TO	BY MATERIALS LAB	BY FIELD								
									LAB	ENGR.				
00413	GRP Cured-in-Place Pipe Lining & UV Care	GRP Cured-in-Place Pipe Lining and UV Care	00413.01 00413.02 00413.30 00413.42(a) 00413.71 00413.75	E, W		F	"E" is submittal(s) according to 00413.01, 00413.02 and 00150.35 at least 10 Calendar Days before preconstruction conference. "W" is one year workmanship warranty according to 0170.85(b)(1). There is no paper warranty. Manufacturer's representative must be on site during initial installation.							
								Q	F	"Q" is from manufacturer.				
								Q	F	"Q" is from manufacturer.				
								Q	F	"Q" is from manufacturer.				
								Pre-installation and post-installation.						
00414	Pipe Renewal - Spray Applied Pipe Structural Liner	Spray Applied Pipe Structural Liner	00414.01 00414.30 00414.42(a) 00414.71 00414.75	E, W		F	"E" is submittal(s) according to 00414.01, 00414.02 and 00150.35 at least 10 Calendar Days before preconstruction conference. "W" is one year workmanship warranty according to 0170.85(b)(1). There is no paper warranty. Manufacturer's representative must be present according to 00414.30.							
								Q	F	"Q" is from manufacturer.				
								Pre-installation and post-installation.						
								Refer to 00415 in this guide.						
								Refer to 00415 in this guide.						
00415	Video Pipe Inspection	Video Pipe Inspection (Pre- and Post-Installation, and Inspection Reports)	00415 00415.40 00415.41 00415.42 00415.70	R		F	"R" is: - pre-installation video inspection at least 5 Calendar Days before beginning Work; submit 2 copies to Engineer within 3 Calendar Days after completion; - post-installation video inspection according to 00415.40 and 00415.41; submit 2 copies to Engineer within 3 Calendar Days after completion; - and written inspection report(s) according to 00415.70; submit 2 copies to Engineer within 3 Calendar Days after completion.							
								Pre-installation and post-installation.						
								Refer to 00415 in this guide.						
								Refer to 00445 in this guide.						
								Refer to 00445 in this guide.						
00420 Special Provision	Salvaging Pipe <i>Refer to Special Provisions for any additional contract specific requirements.</i>	New Materials Salvaged Materials	00420.10			F	"F" can be satisfied with documentation on the test summary and must document use of any salvaged materials.							

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB	BY FIELD				
									Refer to 00350 in this guide.		
00430	Subsurface Drains	Drainage Geotextile						"Q" is markings on pipe.			
		Perforated Concrete Pipe	02410.10(h)		Q		F	"F" must document pipe markings, manufacturer's name, size and AASHTO designation.			
		Perforated Corrugated Aluminum Alloy Pipe and Protective Coating	02420.20 02420.50		Q		F	"Q" is markings on pipe. "F" must document pipe markings, manufacturer's name, size, AASHTO designation and coating type.			
		Perforated Corrugated Polyethylene Pipe	02415.10		Q		F, QPL	"Q" is markings on pipe. "F" must document pipe markings, manufacturer's name, size and AASHTO designation. Must be from the QPL.			
		Perforated Corrugated Steel Pipe and Protective Coating	02420.20 02420.30		Q, O		F	"Q" is markings on pipe. "F" must document pipe markings, manufacturer's name, size, AASHTO designation and coating type.			
		Perforated Polyvinyl Chloride Pipe (PVC)	02415.50		Q		F	"Q" is markings on pipe. "F" must document manufacturer's name, size and ASTM designation.			
		Wire Mesh	00430.10		O		F				
		Outlet Protection Block	00430				F				
		00435 Special Provision	Prefabricated Vertical Drains <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Vertical Drains (Complete System)	00435.10 00435.13 00435.14 00435.40(b)		Q, E		F	"Q" is from manufacturer. "E" is submittal(s): - according to 00435.14 at least 21 Calendar Days before the installation of any drains; and - according to 00435.40(b) at least 14 Calendar Days before beginning trial installation.	
				Core	00435.11		T		F	"T" is from manufacturer.	
				Jacket (Geotextile)	00435.12		T		F	"T" is from manufacturer.	

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00440	Commercial Grade Concrete							
00442	Controlled Low Strength Materials							
00445	Sanitary, Storm, Culvert, Siphon, and Irrigation Pipe	Video Pipe Inspection	Refer to 00415 in this guide.					Video pipe inspection according to 00445.74.
		Corrugated or Spiral Rib Aluminum Alloy - Pipe - Protective Coating - Connecting Bands	02420.20 02420.40	Q		F		"Q" is markings on pipe. "F" must document pipe markings, manufacturer's name, size, AASHTO designation and coating type.
		Corrugated or Spiral Rib Steel - Pipe - Pipe Arches - Protective Coating - Connecting Bands	02420.10 02420.20	Q, O		F		"Q" is markings on pipe. "F" must document pipe markings, manufacturer's name, size, AASHTO or ASTM designation, and coating type.
		Corrugated Polyethylene Pipe	02415.10	Q		F, QPL		"Q" is markings on pipe. "F" must document pipe markings, manufacturer's name, size and AASHTO designation. Must be from the QPL.
		Ductile Iron Pipe	02420.11	Q, O		F		"Q" is markings on pipe. "F" must document manufacturer, size and AWWA designation.
		Metal Reinforcement in Blocks	Refer to 00530 in this guide.					
		Nonreinforced Concrete Pipe	02410.10(f)			F		ODOT approved manufacturers: - Oldcastle Infrastructure, Auburn, WA - Oldcastle Infrastructure, Eugene, OR
		Reinforced Concrete Pipe	02410.10(g)	O		F		- Oldcastle Infrastructure, Keizer, OR - Oldcastle Infrastructure, Nampa, ID - Cascade Concrete Products, Scappoose, OR
							I	If pipe is not from ODOT approved manufacturer, contact Structure Services (503-986-3056) for acceptance information 21 Days prior to pipe casting. Requires Structure Services inspection.

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB	BY FIELD	
00445 (cont)	Sanitary, Storm, Culvert, Siphon, and Irrigation Pipe (continued)	Polypropylene Pipe	02415.40		Q		F, QPL	"Q" is markings on pipe. "F" must document manufacturer's name, size and ASTM designation. Must be from the QPL and meet the requirements of 02415.40.
		Polyvinyl Chloride Pipe (PVC)	02415.50		Q		F	"Q" is markings on pipe. "F" must document manufacturer's name, size and ASTM designation.
		Rubber Gaskets and Joint Sealant for Concrete Pipes	02440.40		Q		F	
		Solid Wall Polyethylene Pipe	02415.20		Q		F, QPL	"Q" is markings on pipe if from the QPL. If not from the QPL, must meet the requirements of 02415.20. "F" must document manufacturer's name, size and ASTM designation.
		Steel Reinforced Polyethylene Pipe	02415.30		Q, O		F, QPL	"Q" is markings on pipe. "F" must document manufacturer's name, size and ASTM designation.
		Asphalt Mastic	00445.12 00445.47		Q		F, QPL	Only required for aluminum and concrete contact surfaces. "Q" meeting requirements of 00445.12 and "F" if not from QPL. "F" and "QPL" if from QPL.
		Tracer Wire	00445.11(e) 00445.48		Q		F	Only required for sanitary and storm sewer installation.
		Trench Drains	00446.11		Q		F, QPL	"Q" meeting requirements of 00446.11 and "F" if not from QPL. "F" and "QPL" if from QPL.
		Frames and Grates	00446.12		Q, O		F, QPL	"Q" meeting requirements of 00446.12 and "F" if not from QPL. "F" and "QPL" if from QPL.

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00450	Structural Plate Shaped Structures	Aluminum Alloy Structural Plates	02430.20	Q			F	"Q" is from manufacturer. "F" must document aluminum sheet size and AASHTO designation.
		Bolts, Nuts, and Washers	02430.90	Q, O			F	"Q" is from manufacturer and galvanizer.
		Galvanized Structural Plates	02430.10	Q, O			F	"Q" is from manufacturer and galvanizer. "F" must document steel plate size and AASHTO designation.
		Concrete Reinforcement	Refer to 00530 in this guide					
		Asphalt Mastic	Refer to 00445 in this guide					
00460	Paved Culvert End Slopes	Repair of Aluminum or Zinc Coating	00450.42(e) 02420.10(d)	Q			F	
		Curing Compound	02050.10				F, QPL	No testing required when used on end slopes.
		Welded Wire Fabric	02510.40	Q, O			F	
00470	Manholes, Catch Basins, and Inlets	Precast Concrete Manholes, Bases, Manhole Top Slabs, Grade Rings, Catch Basins, and Inlets. <i>Vaults are NOT covered by Section 00470 – please refer to Contract Special Provisions for acceptance requirements.</i>	02450	O			F	ODOT approved manufacturers identified in ODOT Standard Drawings: - Oldcastle Infrastructure, Wilsonville, OR - Oldcastle Infrastructure, Eugene, OR - Oldcastle Infrastructure, Nampa, ID - Cascade Concrete Products, Scappoose, OR - Advanced Precast Products, Redmond, OR - Columbia Precast Products, Woodland, WA - Rogue Valley Precast, White City, OR
		Cast-in-Place Units (Steel Reinforcement)	Refer to 00530 in this guide.			I		If not from ODOT approved manufacturer or for Structures without Standard Drawings, contact Structure Services (503-986-3056) for acceptance information prior to casting. Requires Structure Services inspection.
		Joint Material	02440.40 02440.50 02440.60	Q			F	
		Metal Frames, Covers, Grates, and Steps	02450.30	Q, O			F	"Q" is from manufacturer. "Q" is from galvanizer for non-cast iron manufactured grates and frames according to Standard Drawings.
		Concrete Drain Tile	02410.10(i)	T, Q			F	

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				LAB	ENGR.			
00475 Special Provision	Drain Wells <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Well Casing	00475.10		Q, O		F	"Q" is from steel manufacturer.
00480	Drainage Curbs	Curing Compound	00440.40(e) 02050				F, QPL	No testing required when used on drainage curbs.
		Epoxy Bonding Agent	02070.10				F, QPL	
		Preformed Expansion Joint Filler	02440.10				F, QPL	
00490	Work on Existing Sewers and Structures	New Materials	Refer to 00470 in this guide.				F	"F" must document suitable existing Materials were used.
00495	Trench Resurfacing	Salvaged Materials	00490.10				F	"F" must document suitable existing Materials were used.
00500 - BRIDGES								
00501	Bridge Removal							
00503	Bridge Deck Cold Plane Pavement Removal							
00504	Concrete Deck Surface Preparation	Portland Cement Concrete Repair Material	00504.10 02015				F, QPL	
00510	Structure Excavation and Backfill	Cofferdam Submittals	00510.03		E			"E" is submittal(s) according to 00510.03 and 00150.35.
		Shoring Submittals	00510.04		E			"E" is submittal(s) according to 00510.04 and 00150.35; for atypical shoring systems allow 120 Calendar Days for Agency review and response.
00512	Drilled Shafts <i>(continued on next page)</i>	Submittals - Drilled Shaft Installation Plan	00512.40(a)		E			"E" is submittal(s) according to 00512.40(a) and 00150.35 at least 21 Calendar Days before beginning shaft construction. Do not begin drilled shaft construction Work until all drilled shaft submittals have been approved.
		- Drilled Shaft Repair Plans	00512.40(b)		E			"E" is submittal(s) according to 00512.40(b) and 00150.35 for unacceptable shafts. Do not begin repair operations before remedial procedures or designs are approved.

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00512 (cont)	Drilled Shafts (continued)	- Drilled Shaft Inspection Reports	00512.40(c)	R				"R" is report(s) according to 00512.40(c) within 21 Calendar Days after completion and acceptance of each shaft.	
		- Concrete Placement Logs and Volume Curves	00512.40(d)	E				"E" is submittal(s) according to 00512.40(d) within 24 hours after completion of shaft concrete placement for each shaft.	
		- Personnel	00512.30	E				"E" is personnel qualifications according to 00512.30. Do not begin Work on any drilled shafts until qualifications have been approved.	
		Reinforcement	Refer to 00530 in this guide.						
		Permanent Steel Casing	00512.13 00512.40	Q, O			F	"Q" is from manufacturer.	
		Drilling Slurry	00512.14(a) 00512.14(b) 00512.14(c)				F, QPL	"QPL" is for synthetic slurry. If synthetic slurry is used, manufacturer's representative and a Contractor's employee trained in the use of synthetic slurry must attend Drilled Shaft Coordination Meeting according to 00512.41.	
		Crosshole Sonic Log Access (CSL) Tubes	00512.15 00512.48(b)	R, Q, O			F	"R" is Contractor's crosshole sonic log test reports according to 00512.48(b) within 5 Calendar Days of the performance of the tests. "Q" is from manufacturer.	
		CSL Cement Grout – Field Mixed	00512.18 02010.10				F, QPL	Cement from the QPL.	
		CSL Cement Grout	00512.18 02080				F, QPL	Non-epoxy or tendon grout from the QPL.	
		00520	Driven Piles (continued on next page)	Submittals - Pile Driving Equipment	00520.20(d)	E			
- Splices > Welded > Mechanical	00520.43(f) 00520.43(f)(1) 00520.43(f)(2)			E				"E" is submittal(s): - according to 00520.43(f) for welded splices; - according to 00520.43(f) and 00150.35 for mechanical splices.	

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00520 (cont)	Driven Piles (continued)	- Welding	00530.43(g)(2)					"E" is submittal(s) according to 00530.43(g)(2) prior to welding. Do not begin welding without approval. "R" is welding inspection report(s) according to 00530.43(g)(2) upon completion of welding. "Q" is for timber piling and preservative treatment. "T" is from steel manufacturer. "I" is for strand, hardware, reinforcing, concrete and Aggregate in precast concrete units. Structure Services will perform inspection and testing for all Materials and fabrication. Do not place footing concrete until all piles within a footing are inspected by the Engineer. Do not drive precast prestressed piles without Engineer's consent according to 00520.44(c).
		Timber Piles and Preservative Treatment	02120.20 02190	Q		F		
		Prestressed Concrete Piles	00550 02520.20	T, Q, O	I	F		
		Reinforced Pile Tips	02520.10(e)	T, O		F, QPL		"QPL" is for H-pile tips.
		Steel Piles	02520.10	T, O	I	F		"T" is from steel manufacturer. "F" must document pile markings, heat and lot numbers, AASHTO or ASTM designation, grade, brand and quantity. Engineer to submit documents to Structure Services which will perform inspection and review of documents for all Materials and fabrication. Contact ODOT Milwaukie Materials Lab (971-673-7002) to coordinate inspection.
		Steel Pile Protective Coating	Refer to 00594 in this guide.					
		Steel Reinforcement for Concrete	Refer to 00530 in this guide.					
		Timber Pile Straps	02120.30	Q, O		F		

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00530	Steel Reinforcement for Concrete	Order Lists and Bending Diagrams Submittals	00530.11		E			"E" is submittal(s) according to 00530.11, 00150.35, and 00150.37 before ordering material.
		Deformed Bar Reinforcement ASTM A706 & A615 (from QPL approved manufacturer)	02510.10		O		F, QPL	"F" must document steel manufacturer's identification markings rolled into the bar. "QPL" is for rebar manufacturer.
		Deformed Bar Reinforcement ASTM A706 & A615 (not from QPL approved manufacturer)	02510.10	T	T, O	L	F	"T" is from steel manufacturer. "L" is test results from ODOT Salem Central Materials Lab. Obtain from each manufacturer, three 4 ft. field sample of the size representing the greatest quantity needed for the Project. Submit samples to ODOT Salem Central Materials Lab. Include manufacturer's name and heat number. "F" must document steel manufacturer's identification markings rolled into the bar.
		Deformed Bar Reinforcement ASTM A1035 alloy CM & CS (from QPL approved manufacturer)	02510.10	T	T, O	L	F, QPL	"T" is from steel manufacturer. "L" is test results from ODOT Salem Central Materials Lab. Obtain from each manufacturer, three 4 ft. field sample of the size representing the greatest quantity needed for the Project. Submit samples to ODOT Salem Central Materials Lab. Include manufacturer's name and heat number. "QPL" is for rebar manufacturer.
		Dowels	02510.50		Q, O		F	"Q" is from steel manufacturer.
		Epoxy Coated Reinforcement	02510.11(a)		Q, O		F	"Q" is for CRSI epoxy coating plant certification.
		Headed Bar Reinforcement	00530.35 00530.47 02510.25	T	Q, O	L	F, QPL	"Q" is from headed bar manufacturer. "L" is test results from ODOT Salem Central Materials Lab. Submit three (3) 4 ft. field samples for installer qualification according to 00530.35 to ODOT Salem Central Materials Lab. Submit quality control samples according to 00530.47(b)(4).
								"F" must document steel manufacturer's identification markings rolled into the bar. "QPL" is for rebar manufacturer.

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				LAB	ENGR.				
00530 (cont)	Steel Reinforcement for Concrete (continued)	Galvanized Coating	02510.30		Q, O		F	"Q" is from galvanizer.	
		Mechanical Splices	00530.30 00530.42(c) 02510.20	T	Q, E, O	L	F, QPL	"Q" is from splice manufacturer. "E" is submittal(s) according to 00530.42(c)(1) at least 14 Calendar Days before splice installation when grout sleeve mechanical splices allowed. "L" is test results from ODOT Salem Central Materials Lab. Submit three 8 ft. field samples for installer qualification according to 00530.30 to ODOT Salem Central Materials Lab. Submit quality control samples according to 00530.42(c)(2)(d). "QPL" is for splice manufacturer.	
		Stainless Steel Chairs and Supports	02513.30		Q, O		F		
		Stainless Steel Concrete Inserts	02513.35		Q, O		F		
		Stainless Steel Dowels	02513.50		Q, O		F		
		Stainless Steel Mechanical Splices	00530.30 00530.42(c)(1) 02513.20	T	Q, E, O	L	F, QPL	"Q" is from splice manufacturer. "E" is submittal(s) according to 00530.42(c)(1) at least 14 Calendar Days before splice installation when grout sleeve mechanical splices allowed. "L" is test results from ODOT Salem Central Materials Lab. Submit three 8 ft. field samples for installer qualification according to 00530.30 to ODOT Salem Central Materials Lab. Submit quality control samples according to 00530.42(c)(2)(d). "QPL" is for splice manufacturer.	
		Stainless Steel Deformed Bar Reinforcement (A955)	02513.10		Q, O		F	Do not begin mechanical splice installation until the Engineer confirms, in writing, the qualification of each mechanical splice installer.	

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00530 <i>(cont)</i>	Steel Reinforcement for Concrete <i>(continued)</i>	Stainless Steel Tie Wire			Q, O			"T" is from steel manufacturer.
		Welded Wire Fabric	T		T, O	L		"L" is test results from ODOT Salem Central Materials Lab. Submit minimum of one full width of sheet by 3 ft. field sample for each size of reinforcement per Project to ODOT Salem Central Materials Lab.
		Wire Reinforcement	T		T, O	L		"T" is from steel manufacturer. "L" is test results from ODOT Salem Central Materials Lab. Submit minimum of one full width of sheet by 3 ft. field sample for each size of reinforcement per Project to ODOT Salem Central Materials Lab.
		Concrete Inserts			Q, O			"Q" is from galvanizer.
00535	Resin Bonded Anchor Systems (March 1, 2021 renamed to Post-Installed Anchor Systems) Resin Bonded Anchor System 00535.10(a) Special Provision - March 2021	Galvanized Tie Wires			Q, O			"Q" is from galvanizer.
		Resin Bonded Anchor System Submittals			P			"P" is personnel qualifications according to 00535.01 and 00535.30 at least 21 Calendar Days before starting Work for anchor installation horizontally or upwardly inclined.
		High-Strength Anchor Bolts	T		T, Q, O	L		"T" is from steel manufacturer. "Q" is from galvanizer. "L" is test results from ODOT Salem Central Materials Lab. Sample and test according to 02560.60(b). Submit to ODOT Salem Central Materials Lab.
		Carbon Steel Anchor Bolts			T, Q, O			Prior to installation contact Structure Services (503-986-3056). Do not begin installing the anchor system until the installation process is approved. "T" is from steel manufacturer. "Q" is from galvanizer. Prior to installation contact Structure Services (503-986-3056).
	<i>(continued on next page)</i>							

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				LAB	ENGR.				
00535 (cont)	Resin Bonded Anchor System 00535.10(a) Special Provision - March 2021 (continued)	Reinforcement	Refer to 005330 in this guide.						
		Resin – Polyester, Vinyl Ester or Epoxy	00535.10(a)	Q			F, QPL	Refer to Special Provisions and QPL remarks for additional requirements and type of resin to use.	
		System Embedment Test	00535.45(a)(1) Anchor Test Summary 00535.45(c)	NEW ITEM - Refer to MFTP.					Refer to Special Provisions.
		Anchor System - Stainless Steel - Galvanized	00535.10(b)	Q			F, QPL	Refer to Special Provisions. "Q" is from galvanizer when specified.	
00536	Mechanical Anchor System 00535.10(b) Special Provision - March 2021	System Embedment Test	00535.45(a)(2) Anchor Test Summary 00535.45(c)	NEW ITEM - Refer to MFTP.				Refer to Special Provisions.	
		Internal Shear Anchors Submittals	00536.03 00536.41	E				"E" is submittal(s) according to 00536.03 at least 12 Calendar Days before beginning internal shear anchor Work. Do not begin drilling holes in the Bridge until the Engineer has provided written approval of the demonstration.	
		Crack Injection Epoxy Resin	00536.10 00536.13	E			F, QPL	"E" is submittal(s) according to 00536.13 before beginning epoxy resin installation.	
		Threaded Shear Anchors	00536.11 02560.60(b)	T		L	F	"L" is test results from ODOT Salem Central Materials Lab.	
		Concrete Repair	00536.12 02015				F, QPL	Must be compatible with epoxy resin.	
		Submittals	00538.01 00538.30	E				"E" is submittal(s) according to 00538.01 at least 6 Calendar Days before beginning Work. Do not begin crack injection Work until the Engineer has approved, in writing, the proposed personnel.	
00538	Crack Injecting Existing Bridges	Epoxy Resin	00538.10 00538.13	E			F, QPL	"E" is submittal(s) according to 00538.13 before beginning epoxy resin installation. Surface seal must be compatible with epoxy resin.	
		PCC Patching Material	00538.12 02015				F, QPL		

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00539 Special Provision	Concrete and Crack Sealing <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Submittals	00539.40(c)		E			"E" is submittal(s) according to 00539.40(c). Do not proceed with the Work until the proposed procedure has been approved by the Engineer. Note: Pre-placement meeting at least 10 Calendar Days before applying the sealer.	
		Concrete and Crack Sealer	00539.10 02060				F, QPL	Refer to Special Provisions for modulus requirement.	
		PCC Repair Material	00539.10 02015				F, QPL	Must be compatible with sealer.	
		Falsework Submittals	00540.41 00540.42		E			"E" is submittal(s) according to 00540.41 and 00150.35. Do not place concrete until all construction concerns have been addressed, the falsework design engineer furnishes the Engineer a written statement that the falsework conforms to the design and will serve the intended use, and the Engineer agrees in writing that the falsework will serve the intended use.	
00540	Structural Concrete	Concrete and Crack Sealers	Refer to 00539 in this guide.						
		Concrete Coating	02210.10 02210.30		Q		F, QPL	"Q" is package labeling information according to 02210.10(b).	
		Curing Blanket for Concrete Bridge Decks	02050 00540.51(b)				F, QPL		
		Concrete Surface Retarder Epoxy and Non-Epoxy Bonding Agents	02055 02070				F, QPL	Refer to Special Provisions for epoxy cement modulus requirement.	
		Epoxy and Non-Epoxy Grouts	02080						
		Epoxy Cement	02060						
		PCC Repair Material Hot Applied Joint Sealant Preformed Expansion Joint Filler	02015 02440.30 02440.10						
00543 Special Provision	Architectural Treatment <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Architectural Treatment Submittals	00543.02		E			"E" is submittal(s) according to 00543.02 at least 10 Calendar Days before the preconstruction conference.	

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00545	Reinforced Concrete Bridge End Panels	Reinforcement and Dowels Pipe Under End Panels	Refer to 00530 in this guide. 00545.10		Q, O		F	"Q" is markings on pipe and galvanizing certification when applicable. "F" must document pipe markings, manufacturer's name, size, AASHTO or ASTM designation, and coating type.
00550	Precast Prestressed Concrete Members	Expansion Joints Design Submittals Precast Prestressed Members	Refer to 00585 in this guide. 00550.02		E			"E" is for submittal(s) according to 00550.02 and 00150.35. Do not incorporate alternate materials or members into the Work until the proposal has been accepted by the Engineer.
				T, Q, O		I	F	"T" is from steel manufacturer. "I" is for strand, hardware, reinforcing, concrete and Aggregate in precast concrete members. Structure Services will perform inspection and testing for all Materials and fabrication.
							F, QPL	"F" for concrete coating must document conformance to 02210.10(b).
		<ul style="list-style-type: none"> - Backer Rod - Concrete Coating - Epoxy and Non-Epoxy Grout - Epoxy Coating - Keyway Grout - PCC Repair Material - Hot Applied Joint Sealant 						
		<ul style="list-style-type: none"> High-Strength - Tie Rods - Nuts and Washers 		T	T, Q, O	L	F	"T" is from manufacturer. "Q" is from galvanizer. "L" is test results from ODOT Salem Central Materials Lab. Sample and test according to 02560.60(b). Submit to ODOT Salem Central Materials Lab. "F" must document nil gap according to 00550.50.
		Elastomeric Bearing Pads	Refer to 00582 in this guide					

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00555	Post-Tensioning	Submittals - Test Report - Working Drawings and Calculations - Review of Methods	00555.40	E				"E" is for submittal(s) according to 00555.40 and 00150.35. Do not cast any member to be stressed before the Working Drawings have been reviewed.
		Anchorage - Proprietary Devices	00555.03 02530 02540	T, O			F	"T" is from anchorage assembly manufacturer.
		Anchorage - Non-Proprietary Devices, Fabricated Steel Items	Refer to 005560 in this guide.					Design according to 00555.03.
		Tendon Duct	02515.50	Q, O			F	"Q" is from galvanizer and duct manufacturer.
		Seven-Wire Strand - Bright Wire and Epoxy Coated	02515.10 02515.40	T T, Q, O	L		F	"T" is from strand manufacturer. "Q" required for epoxy coating.
		High Tensile Strength Wire	02515.20	T	L		F	"L" is test results from ODOT Salem Central Materials Lab. Submit for testing, prior to use, one 8 ft. field sample from each reel, coil or pack to ODOT Salem Central Materials Lab. "T" is from wire manufacturer.
		High-Strength Steel Bars	02515.30	T, O	L		F	"L" is test results from ODOT Salem Central Materials Lab. Submit for testing, prior to use, minimum of one 8 ft. field sample from each 10 coils to ODOT Salem Central Materials Lab. "T" is from manufacturer.
		Tendon Grout	00555.12 00555.13 02080.50	T, R			F, QPL	"T" is results from trial batch. "R" is field test of grout according to 00555.43.

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00556	Multi-Layer Polymer Concrete Overlay	Submittals	00556.03 00556.04 00556.05 00556.10 00556.30	E			"E" is submittal(s) according to 00556.03, 00556.04, 00556.10, and 00556.30 at least 21 Calendar Days before the pre-placement conference. Do not begin overlay Work until meeting according to 00556.05(b) is held. MPCO manufacturer technical representative must be present according to 00556.30.		
							F, QPL		
							F, QPL		
00557	Premixed Polymer Concrete Overlays	Submittals	00557.02 00557.04 00557.05 00557.22 00557.30 00557.44	E	L	"E" is submittal(s) according to 00557.02, 00557.04, 00557.22, 00557.30 and 00557.44 at least 21 Calendar Days before the pre-placement conference. Do not begin PPC pavement overlay Work until meeting according to 00557.05(b) is held. System provider's technical representative must be present according to 00557.30(d). "L" is test results from ODOT Salem Central Materials Lab. Submit for testing, prior to use, two 50 lb. samples of the blended aggregate to ODOT Salem Central Materials Lab.			
00559	Structural Concrete Overlays	Concrete and Crack Sealers	Refer to 00539 in this guide.				Do not begin resurfacing Work until meeting according to 00559.04(b) is held.		
									F, QPL
									F, QPL

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				LAB	ENGR.			
00560	Structural Steel Bridges	Submittals - Working Drawings	00560.03	E			"E" is submittal(s) according to 00560.03, 00150.35 and 00560.22(a). Work done before review of Working Drawings and any revisions is at the Contractor's risk.	
		- Erection Plan (Stamped)	00560.04 (Special Provisions)	E			"E" is submittal(s) according to 00560.04 and 00150.35 at least 21 Calendar Days before the start of the steel erection Work. Do not perform Work until approval has been obtained. Note: 00560.05 Pre-Erection Coordination Meeting.	
		Fabricated Steel Items	00560.30 02530	T, O	I	F	"T" is from manufacturer. "Q" is fabricator certification under AISC according to 00560.30. Note: certification has been updated from CBR to IBR. Structure Services will perform inspection and testing for all Materials and fabrication. Engineer is responsible for notification of fabrication and for providing Working Drawings to ODOT Milwaukie Materials Lab (971-673-7002). According to 00560.20, give the Engineer at least 14 Calendar Days' notice of the beginning of Work at the mill, when directed, or at the shop, so inspection may be provided.	
		High-Strength - Anchor Bolts - Nuts and Washers	02560.30(b,c,d) 02560.40 02560.60(b)	T	L	F	"T" is from manufacturer. "Q" is from galvanizer. "L" is test results from ODOT Salem Central Materials Lab. Submit samples per size per lot according to 02560.60(b) to ODOT Salem Central Materials Lab for testing.	
		Carbon Steel - Tie Rods - Anchor Bolts/Rods - Nuts and Washers	02560.30(a,c,d) 02560.40	T, Q, O		F	"T" is from manufacturer. "Q" is from galvanizer.	

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				LAB	ENGR.			
00560 (cont)	Structural Steel Bridges (continued)	High-Strength - Bolts, Nuts and Washers	02560.20 02560.40 02560.60	T	T, Q, O, R	L	F	"T" is from manufacturer and includes RoCap testing from high-strength bolt Supplier according to 02560.60(a). "Q" is from galvanizer. "R" is RoCap field testing at the time of installation according to 00560.29 and 02560.60(a). "L" is test results from ODOT Salem Central Materials Lab. Submit samples per size per lot according to 02560.60(b) to ODOT Salem Central Materials Lab for testing. Prior to installation contact Structure Services (503-986-3056).
00566	Carbon Fiber Reinforced Polymer Strengthening - Near Surface Mounted	Submittals - Materials Certifications - Test Results - Personnel Qualifications - Working Drawings and Calculations	00566.03		E			"E" is submittal(s): - according to 00566.03(a), 00566.03(b), 00566.03(d) and 00150.35 at least 21 Calendar Days before starting Work; and - according to 00566.03(c) at the pre-construction conference. Certified personnel must be present according to 00566.30.
00570	Timber Structures (continued on next page)	CFRP Bar	00566.10 00566.12	T	T, Q	L	F	"T" is from Manufacturer. "Q" is from Manufacturer. "L" is test results from ODOT Salem Central Materials Lab. Submit for testing, at least 21 Calendar Days prior to use, five 8 ft. field samples per lot to ODOT Salem Central Materials Lab.
		High-Strength Epoxy Resin	00566.11				F, QPL	
		Submittals	00570.12		E			"E" is submittal(s) according to 00570.12 and 00150.35 for prefabricated material before fabrication.
		Coating Metal Parts	00570.11 00594.10 00594.11 02530.70		Q		F, QPL	"Q" is from galvanizer or coating manufacturer. "QPL" is for coating material.
		Coatings for Timber	02210.20 02210.21		Q		F, QPL	"Q" is package labeling information according to 02210.10(b).

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00570 (cont)	Timber Structures (continued)	Connectors and Fasteners	02150		T, Q, O		F	"Q" is from galvanizer and manufacturer. "T" is for connectors according to 02150.20(e). Refer to Special Provisions 00570.15 for requirements.		
			Driven Piles						Refer to 00520 in this guide.	
		Glued Laminated Timber and Preservative Treatment	02140	T		I		F	Structure Services will perform inspection and testing for all Materials and fabrication.	
			02190							
		Timber/Lumber and Preservative Treatment	02130	Q		I		F	"Q" is either grade-stamp or mill certification. Structure Services will perform inspection and testing for all Materials and fabrication.	
			02190							
		00581	Bridge Drainage System	Field Treatment	02190.30				F, QPL	Field treat damaged or drilled surfaces.
					Steel Pipe	00581.10		Q, O	F	"Q" is from galvanizer and pipe manufacturer.
				Fabricated Steel Items	02530.20		Q, O		F	"Q" is from galvanizer and fabricator.
					Fasteners	02560		T, Q, O	F	"Q" is from galvanizer and connector manufacturer. "T" is for high-strength applications.
00582	Bridge Bearings	Fabrication Submittals	00582.30		E			"E" is submittal(s) according to 00582.30 and 00150.35.		
			Composite Bearings	00582.20 02570	T, Q, O		I	F, QPL	"T" is from pad manufacturer. "Q" is by independent lab. "I" is inspection report by Structure Services.	
		Elastomeric Bearings - Laminated	02571	T, Q, O		I		F	Structure Services will perform inspection or testing for all Materials and fabrication. Contact ODOT Milwaukie Materials Lab (971-673-7002) to coordinate inspection.	
			Elastomeric Bearings - Plain, Non- Laminated	02571				F, QPL		
		Fabricated Steel Items - Rockers and Hangers (Bearings)	02570	T, O		I		F	Structure Services will perform inspection and testing for all Materials and fabrication. Contact ODOT Milwaukie Materials Lab (971-673-7002) to coordinate inspection.	

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00583	Electrical Conduit On Structures	Submittals - Materials - Procedures	00583.03	E			"E" is submittal(s) according to 00583.03 and 00150.37 at least 21 Calendar Days before the scheduled start of the Work. Do not begin work before receiving written approval of submittals from the Engineer.	
			00583.03	E			"E" is submittal(s) according to 00583.03 and 00150.35.	
			00583.03	E			"E" is submittal(s) according to 00583.03 and 00150.37 within 30 Calendar Days of completing the Work.	
			00583.10	Q, O		F	"Q" is from galvanizer and manufacturer for GRC; from manufacturer for RMC and SS. "O" is for GRC, RMC and SS.	
			00583.11	Q, O		F	"Q" is from galvanizer and manufacturer for galvanized iron; from manufacturer for SS.	
			00583.12	Q, O		F	"O" is for galvanized iron and SS. "Q" is from galvanizer and manufacturer for galvanized steel; from manufacturer for SS.	
			00583.13 002560.10	Q, O		F	"O" is for galvanized steel and SS. "Q" is from galvanizer and manufacturer.	
			00583.60	Refer to 00450 in this guide.				
			00584.30	P			"P" is manufacturer representative's certification according to 00584.30.	
			00584.10	Q		F, QPL	Manufacturer's representative must be present according to 00584.30. "Q" is package labeling information according to 00584.10.	
			00584.10			F, QPL		

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00585	Expansion Joints	Submittals - Expansion Joint Personnel	00585.31		E		"E" is submittal(s) according to 00585.30. Manufacturer's representative must be present according to 00585.31.	
		- Closed Joints	00585.42		E		"E" is submittal(s) according to 00585.42 and 00150.35 for each joint at least 21 Calendar Days before beginning Work. Notify Engineer in writing at least 7 Calendar Days before installing the joint.	
		Backer Rod	00585.10 00585.11 02440.14				F, QPL	Used for poured seals.
		Hot Applied Joint Sealant	00585.10 00585.11 02440.30				F, QPL	
		Lubricant/Adhesive	02440.15		Q		F	
		Polytetrafluoroethylene (PTFE)	02570.10		T, Q		F	
		Poured Joint Seal	00585.10 02440.11				F, QPL	
		Precompressed Foam Silicone Joint Seal	00585.10 00585.11 02440.23				F, QPL	
		Preformed Compression Joint Seal	00585.10 00585.11 02440.22		Q		F, QPL	
		Preformed Joint Filler for Concrete	00585.10 00585.11 02440.10		Q		F, QPL	
		Stainless Steel Sliding Surfaces	02570.10		T, Q, O		F	
		Steel Bridging Plate (Asphaltic Plug Joint Seal)	00585.10 00585.11 02440.19		Q, O		F	"Q" is from galvanizer.
		Strip Seal	00585.10 00585.11 02440.20		Q, O		F, QPL	This is the complete Expansion Joint System from the QPL.
		Structural Steel	02530		T, Q, O		F	

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00586 Special Provision	Expansion Joints - Modular <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Submittals	00586.03		E			"E" is submittal(s) according to 00586.03.
		- Modular Bridge Joint System (MBJS)	00586 00586.201 00586.30		T, M		F	Acceptable joint manufacturer according to Special Provisions. "T" and "F" includes individual components listed in 00586 of this guide. "M" required for completed system according to 00586.48. Manufacturer's representative must be present according to 00586.30.
		- Elastomeric Strip Seal	02440.20		Q			
		- Lubricant/Adhesive	00586.10 02440.15		Q			
		- Polytetrafluoroethylene (PTFE)	02570.10		T, Q			
		- Stainless Steel Sliding Surfaces	02570.10		T, Q, O			
		- Structural Steel	02530.20		T, Q, O			
		Bridge Rails - Structural Steel Tubing	00560 02810.20	Q, O	E	I	F	Structure Services will perform inspection and testing for all Materials and fabrication. Engineer is responsible for notification of fabrication and for providing shop drawings to ODOT Milwaukie Materials Lab (971-673-7002).
		- Tube (Steel Pipe)	02810.30		Q, O		F	"Q" is from fabricator and galvanizer.
		- Cast Steel Posts	02810.40		Q, O		F	"Q" is visual verification of AASHTO M 180, Class A, Type II stamp.
00587	Bridge Rails (Including Pedestrian Rail) <i>(continued on next page)</i>	- Thrie Beam Rail (Metal)	02810.50		Q, O		F	"F" must document AASHTO M 180, Class A, Type II stamp. Guardrail without stamp will be rejected.
		- Epoxy Anchor Adhesive	02810.15		Q		F, QPL	"QPL" is for Hilti HIT-HY200-A, Hilti HIT-RE 500V3, Red Head C6+ or Ultrabond HS-1CC only.
		Coating Materials for Concrete	02210.10 02210.30		Q		F, QPL	"Q" is package labeling information according to 02210.10(b). "QPL" is for latex emulsion paint only.
		Grout	02080.30				F, QPL	"QPL" is for keyway grout only.

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00587 <i>(cont)</i>	Bridge Rails <i>(continued)</i>	Reinforcement	Refer to 00530 in this guide					
		Fasteners	Refer to 00560 in this guide					
		Structural Steel	Refer to 00560 in this guide.					
00588 Special Provision	Precast Historic Ornamental Bridge Rails <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Precast Unit	00588	T, Q, O	I	F	"T" is from steel manufacturer. "I" is for strand, hardware, reinforcing, concrete and Aggregate in precast concrete units. Structure Services will perform inspection and testing for all Materials and fabrication.	
		- Backer Rod - Concrete Coating - Epoxy and Non-Epoxy Grout - Epoxy Coating - Keyway Grout - PCC Repair Material - Poured Joint Filler	02440.14 02210 02080 02510.11 02080.30 02015 02440.30				F, QPL	
00590	Polymer Membrane	High-Strength - Tie Rods, Nuts and Washers	00550.50 02560.20 02560.30 02560.60(b)	T	T, Q, O	L	"T" is from manufacturer. "Q" is from galvanizer. "L" is test results from ODOT Salem Central Materials Lab. Submit samples per size per lot according to 02560.60(b) to ODOT Salem Central Materials Lab for testing.	
		Submittals	00590.02 00590.04		E, R		"E" is submittal(s) according to 00590.02 and 00590.04 at least 7 Calendar Days before the preplacement conference. "R" is daily report according to 00590.40(e).	
00591 Special Provision	Spray Waterproofing Membrane <i>Refer to Special Provisions for any additional contract specific requirements.</i>	- Primer - Polymer Membrane - Broadcast Aggregate	02060.10 00556.10(a) 00556.10(b)			F, QPL	Epoxy polymer and primer from same manufacturer.	
		Warranted Spray Waterproofing Membrane System	00591.10 00591.30 00591.46 00591.48 00591.75		W, P, R	F, QPL	"P" is applicator certification according to 00591.31. "R" is manufacturer representative's daily reports according to 00591.30, 00591.46, and 00591.48. Required warranty statement is located on QPL Product Review website under section 00591. Do not begin membrane Work until the manufacturer's representative is on-site and authorizes the work to begin.	

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				LAB	ENGR.					
00592	Rolled Waterproofing Membrane	Submittals	00592.03 00592.30	E			"E" is submittal(s) according to 00592.03 and 00150.35 at least 7 Calendar Days before the pre-placement meeting for each membrane proposed for use; and according to 00592.30. Do not begin any Bridge membrane Work before the work plan and submittals have been approved.			
								T, R	F	"R" is manufacturer representative's daily reports according to 00592.43.
								E		"E" is submittal(s) according to 00593.03 at least 7 Calendar Days before the date that preparation and coating operations are scheduled to begin.
								Q	F	
00593	Powder Coating Metal Structures	Rolled Waterproofing Membrane System	00593.10	E						
								T, R	F	"R" is manufacturer representative's daily reports according to 00592.43.
								E		"E" is submittal(s) according to 00593.03 at least 7 Calendar Days before the date that preparation and coating operations are scheduled to begin.
								Q	F	
00594	Preparing and Coating Metal Structures	Structural Steel Caulking	Refer to 00594 in this guide.							
								E		"E" is submittal(s) according to 00594.03 at least 21 Calendar Days before the pre-coating conference. Do not begin any preparation or coating Work before the plan for completing the Work has been approved.
00594	Coating Materials	Structural Steel Caulking	00594.11	T, Q	W	L	"T" is for each batch of each coat according to 00594.11(c). "Q" is package labeling information according to 00594.11(b). "W" is coating system warranty if specified in Special Provisions 00594.75. "L" is test results from ODOT Salem Central Materials Lab. Submit field sample for testing according to 00594.11(c) to ODOT Salem Central Materials Lab.			
			00594.12				F, QPL			

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									E	
00595	Reinforced Concrete Box Culverts	Design of Precast Sections	00595.03					"E" is submittal(s) according to 00595.03 and 00150.35. Do not begin precast culvert fabrication or construction before receiving written approval from the Engineer.		
00596A	Mechanically Stabilized Earth Retaining Walls	Cast-in-Place	Refer to 00530 in this guide for reinforcement. Refer to 00540 in this guide for concrete coating.							
		Precast Unit		T, O	I	F	"T" is from steel manufacturer. Contact Structure Services (503-986-3056) for acceptance information 21 Days prior to concrete box culvert casting. Requires Structure Services Inspection. Structure Services will perform inspection and testing for all Materials and fabrication.			
		Joint Seals	02440.40		Q	F	"Q" is from joint seal manufacturer.			
		Proprietary MSE Retaining Walls Submittals	00596A.04 00596A.31		E, O, P		"E" is submittal(s) according to 00596A.04, 00150.35 and 00150.37 at least 30 Calendar Days before beginning construction of proprietary retaining walls. "P" and "O" are is submittal(s) according to 00596A.04 and 00596A.31. Do not begin construction of the wall system before receiving written approval from the Engineer.			
		Proprietary MSE Retaining Walls	00596A.01 00596A.31		M, R	F	Refer to Special Provisions for pre-approved proprietary systems available for use. "M" is manufacturer's final reports according to 00596A.31 (d) . "R" is manufacturer's daily reports according to 00596A.31(b). Manufacturer's representative required activities, field presence, availability for technical assistance according to 00596A.31.			

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00596A (cont)	Mechanically Stabilized Earth Retaining Walls (continued)	Nonproprietary MSE Retaining Walls Submittals	00596A.05	E				"E" is submittal(s) according to 00596A.05 and 00150.35 at least 30 Calendar Days before beginning construction of nonproprietary retaining walls. Do not begin construction of the wall system before receiving written approval from the Engineer.	
		Dry Cast Concrete Modular Block Facing	00596A.12(b)	T, Q, O			F	"T" and "Q" are from manufacturer and must conform to 00596A.12(b) test requirements and tolerances. Maximum 2000 blocks per sublot. Blocks must have been tested by sublot.	
		Wet Cast Concrete Modular Block Facing	00596A.12(c)	T, Q, O			F	"T" and "Q" are from manufacturer and must conform to 00596A.12(c) test requirements and tolerances. Maximum 20 blocks per sublot or one Day's production, whichever is less. Blocks must have been tested by sublot.	
		Precast Concrete Panel Facing	00596A.12(e)	O			F	ODOT approved manufacturers: - Oldcastle Infrastructure, Wilsonville, OR - Freedom Precast, Salem, OR	
		Steel Reinforcement for Concrete	Refer to Section 00530 in this guide.			I		If not from ODOT approved manufacturer, contact Structure Services (503-986-3056) for acceptance information 21 Days prior to casting. Requires Structure Services inspection.	
		Steel Components	00560.00 00596A.13(b)	All steel components must conform to 00560 and 00596.13(b). Refer to Contract Documents for additional requirements.					
		- Soil Reinforcing Strips	00596A.13(b)(1)	Q, O				F	"Q" is from fabricator and galvanizer.
		- Soil Reinforcing Mesh > Welded Wire (Shop Fabricated)	00596A.13(b)(2)	Q, O	L			F	"Q" is from fabricator and galvanizer. "L" is test results from ODOT Salem Central Materials Lab. Submit minimum of one full width of sheet by 3 ft. long field sample per size per Project to ODOT Salem Central Materials Lab.
		- Soil Reinforcing Mesh > Twisted Wire Mesh	00596A.13(b)(2) 02340	Q, O				F	"Q" is from fabricator and galvanizer. Refer to 002340.12 for wire dimension openings.
		- Tie Strips	00596A.13(b) (3)	Q, O				F	"Q" is from fabricator and galvanizer.

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				LAB	ENGR.				
00596A (cont)	Mechanically Stabilized Earth Retaining Walls (continued)	- High-Strength > Bolts, Nuts and Washers - Connector Pins and Mat Bars Gabion Baskets Geosynthetics - Geotextile Soil Reinforcement - Geogrid Soil Reinforcement	00596A.13(b)(4) 02560.20 02560.40	T	T, Q, O	L	F	"T" is from manufacturer. "Q" is from galvanizer. "L" is test results from ODOT Salem Central Materials Lab. Submit samples per size per lot according to 02560.60(b) to ODOT Salem Central Materials Lab.	
			00596A.13(b)(5)		Q, O		F	"Q" is from fabricator and galvanizer.	
			00596A.13(c) 02340		Q, O		F	"Q" is from fabricator and galvanizer.	
			00596A.14 02320		T		F		
			00596A.14(f)(1) 02320		T		F		
			00596A.14(f)(2) 02320.10(a)(2) 02320.10(d)(3)		T		F, QPL	Geogrid must be Type 1 MSEW Geogrid. "T" is manufacturer's: - minimum average roll value meeting or exceeding specifications according to 02320.10(b) - test certification according to 02320.10(c)(2) - testing according to 02320.10(d)	
			00596A.15		Q		F	"Q" is from manufacturer certifying grade, type and size of bearing pads shown in manufacturer's engineered shop drawings.	
			00596B.04 00596B.31		E, O, P			"E" is submittal(s) according to 00596B.04, 00150.35 and 00150.37 at least 30 Calendar Days before beginning construction of proprietary retaining walls. "P" and "O" are is submittal(s) according to 00596B.04 and 00596B.31. Do not begin construction of the wall system before receiving written approval from the Engineer.	
				Prefabricated Modular Retaining Walls	Proprietary Prefabricated Modular Retaining Walls Submittals				
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00596B (cont)	Prefabricated Modular Retaining Walls (continued)	Proprietary Prefabricated Modular Retaining Walls	00596B.01 00596B.10 00596B.31		M, R	I	F	Refer to Special Provisions for pre-approved proprietary systems available for use. "M" is manufacturer's final reports according to 00596B.31 (d). "R" is manufacturer's daily reports according to 00596B.31(b). Manufacturer's representative required activities, field presence, availability for technical assistance according to 00596B.31 "I" is inspection report from Structure Services. Inspection report is only required for blocks with any dimension over 24". Structure Services will provide inspection. "E" is submittal(s) according to 00596B.05 and 00150.35 at least 30 Calendar Days before beginning construction of nonproprietary retaining walls. Do not begin construction of the wall system before receiving written approval from the Engineer. "T" is from manufacturer and must conform to 00596B.12(b) test requirements. Maximum 10 bins per subplot or one Day's production, whichever is less. Bins must have been tested by subplot. "Q" is from manufacturer for supporting and curing, finish and tolerances. "I" is inspection report from Structure Services. Engineer responsible for notification of fabrication and for providing Working Drawings. Contact Structure Services (503-986-3056). "T" and "Q" are from manufacturer and must conform to 00596B.12(c) test requirements and tolerances. Maximum 2000 blocks per subplot. Blocks must have been tested by subplot. "I" is inspection report from Structure Services. Engineer responsible for notification of fabrication and for providing Working Drawings. Contact Structure Services (503-986-3056).
					E			
					T, Q, O	I	F	
		Nonproprietary Prefabricated Modular Retaining Walls Submittals	00596B.05					
		Precast Concrete Bin Units	00596B.12(b)		T, Q, O	I	F	
		DRY Cast Concrete Blocks	00596B.12(c)		T, Q, O	I	F	

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									T, Q, O	I
00596B <i>(cont)</i>	Prefabricated Modular Retaining Walls <i>(continued)</i>	Wet Cast Concrete Blocks	00596B.12(d)					"T" and "Q" are from manufacturer and must conform to 00596B.12(d) test requirements and tolerances. Maximum 20 blocks per subplot or one Day's production, whichever is less. Blocks must have been tested by subplot. "I" is inspection report from Structure Services. Engineer responsible for notification of fabrication and for providing Working Drawings. Contact Structure Services (503-986-3056).		
		Precast Concrete Crib Walls	00596B.12(e)					"T" is from manufacturer and must conform to 00596B.12(e) test requirements. Maximum 100 crib walls per subplot or one Day's production, whichever is less. Bins must have been tested by subplot. "Q" is from manufacturer for color, finish and tolerances. "I" is inspection report from Structure Services. Engineer responsible for notification of fabrication and for providing Working Drawings. Contact Structure Services (503-986-3056).		
		Steel Reinforcement for Concrete	Refer to 00530 in this guide.							
		Metal Bin Gravity Walls – Galvanized Steel Sheets and Hardware	00596B.13(b) 02350		Q, O		F	"Q" is from fabricator and galvanizer.		
		Gabion Baskets	00596B.13(c) 02340		Q, O		F	"Q" is from fabricator and galvanizer.		
		Geosynthetics	00596B.14 02320		T		F			
00596C	Cast-in-Place Concrete Retaining Walls	Cast-in-Place Retaining Walls Submittals	00596C.05		E		F	"E" is submittal(s) according to 00596C.05 and 00150.35 at least 30 Calendar Days before beginning construction of cast-in-place retaining walls. Do not begin construction of the wall system before receiving written approval from the Engineer.		
		Steel Reinforcement for Concrete	Refer to 00530 in this guide.							
		Geosynthetics	00596C.14 02320		T		F			
		Piles	Refer to 00520 in this guide.							

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				LAB	ENGR.			
00597	Sound Walls	Concrete Block Sound Walls	00597.10 and 00597.11					
		- Concrete Blocks and Caps	00597.11(a-b)	T, Q			F, R	"R" is Special Inspection Report(s) in accordance with Oregon Structural Specialty Code (Refer to Standard Drawing BR730).
		- Reinforcement	Refer to 00530 in this guide.					
		- Mortar and Grout	00597.11(e)	T, Q			F	"T" is for Mortar. "Q" is for Grout.
		- Preformed Expansion Joint Filler	00597.11(f) 02440.10				F, QPL	
		- Fillers, Sealers, and Damp Proofing	00597.11(g)				F, QPL	
		Precast Concrete Panel Sound Walls	00597.12	O			F	ODOT approved manufacturers: - Oldcastle Infrastructure, Wilsonville, OR - EnCon Northwest, LLC Camas, WA - Freedom Precast, Salem, OR
		Concrete Panel Lock Fence Sound Walls	00597.13	O		I		For soundwalls not from ODOT approved manufacturer, contact Structure Services (503-986-3056) for acceptance information 21 Days prior to soundwall casting. Requires Structure Services inspection.
								ODOT approved manufacturers: - Oldcastle Infrastructure, Wilsonville, OR - EnCon Northwest, LLC Camas, WA - Freedom Precast, Salem, OR
								For soundwalls not from ODOT approved manufacturer, contact Structure Services (503-986-3056) for acceptance information prior to soundwall casting.
00599	Concrete Slope Paving	Grout	00599.10 02080.40				F	
		Reinforcement	Refer to 00530 in this guide.					
00600 - BASES								
No Nonfield-Tested Materials								
00700 - WEARING SURFACES								
00705	Emulsified Asphalt Prime Coat and Emulsified Asphalt Fog Coat	Section does not contain any nonfield-tested materials.						

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00706	Emulsified Asphalt Slurry Seal Surfacing	Additives and Mineral Filler - Cement	02010.10				F, QPL	
		- Hydrated Lime	02090.10	Q			F	
		- Fly Ash	02030.10				F, QPL	
00710	Single Application Emulsified Asphalt Chip Seal	Section does not contain any nonfield-tested materials.						
00711	Pre Coated Aggregate Asphalt Chip Seal	Section does not contain any nonfield-tested materials.						
00715	Multiple Application Emulsified Asphalt Surface Treatment	Section does not contain any nonfield-tested materials.						
00730	Emulsified Asphalt Tack Coat	Section does not contain any nonfield-tested materials.						
00735	Emulsified Asphalt Concrete Pavement	Section does not contain any nonfield-tested materials.						
00738	Safety Edge	Section does not contain any nonfield-tested materials.						
00740	Commercial Asphalt Concrete Pavement (CACP)	Section does not contain any nonfield-tested materials.						
00743	Porous Asphalt Concrete (PAC)	Section does not contain any nonfield-tested materials.						
00744	Asphalt Concrete Pavement	Section does not contain any nonfield-tested materials.						
00745	Asphalt Concrete Pavement Statistical Acceptance	Aggregate Treatment - Hydrated Lime	02090.10	Q			F	
00746	Crack Sealing Flexible Pavements	Sealants – Hot Poured	02440.30				F, QPL	
00748	Asphalt Concrete Pavement Repair	Subgrade Geotextile	00748.16 02320.10				F	Visual acceptance according to 00748.16.
		Subgrade Reinforcement Geogrid	00748.16 02320.10				F, QPL	Visual acceptance according to 00748.16.
00749	Miscellaneous Asphalt Concrete Structures	Section does not contain any nonfield-tested materials.						

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				LAB	ENGR.			
00755	Continuously Reinforced Concrete Pavement	Reinforcement	Refer to 00530 in this guide.					
		Wire Reinforcement (Bar Support)	02510.60	Q, O		F	"Q" is from steel manufacturer. Requirement is exclusive to transverse bar support assembly, refer to standard detail.	
		Curing Materials - Liquid Compounds	02050.10		L	F, QPL	"L" is test results from ODOT Salem Central Materials Lab. Submit one quart samples of each lot to ODOT Salem Central Materials Lab for testing.	
		Dowels	02510.50	Q, O		F	"Q" is from steel manufacturer.	
		Bonding Agents	02070.10 02070.20			F, QPL		
		Grout	02080.10 02080.20			F, QPL		
		Hot Applied Joint Sealant	02440.30			F, QPL		
		Poured Joint Sealant	02440.11			F, QPL		
		Preformed Joint Fillers for Concrete	02440.10			F, QPL		
		00756	Plain Concrete Pavement	- Reinforcement - Dowels - Curing Materials - Bonding Agents - Grout - Joint Sealant and Fillers	Refer to 00755 in this guide.			
00759	Miscellaneous PCC Structures	Submittals	00759.03	E			"E" is submittal(s): - according to 00759.03(a) , 00759.03(c) and 00150.35 at least 10 Calendar Days before preplacement conference; and - according to 00759.03(b) at least 21 Calendar Days before the curb ramp Work is scheduled to begin.	
		- Working Drawings - Curb Ramp Plan					Do not begin any curb ramp Work before the plan for completing the Work has been approved.	
		Sidewalk Ramps	00759	E		R	"R" is ADA Curb Ramp Inspection Form for each completed ramp.	
		Bar Reinforcement	Refer to 00530 in this guide.					
		Dowels	Refer to 00530 in this guide.					
		Epoxy Bonding Agent	02070.10			F, QPL		

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00759 (cont)	Miscellaneous PCC Structures (continued)	Preformed Expansion Joint Filler	02440.10				F, QPL	
		Welded Wire Fabric	02510.40		Q, O		F	
		Truncated Dome Warning Surfaces	00759.12				F, QPL	
		Curing Materials	02050				F, QPL	No testing required when used on miscellaneous PCC Structures.
00800 - PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES								
00810	Metal Guardrail	Guardrail Anchor Hardware	02820.40		Q, O	L	F	"Q" is from galvanizer. "L" is stock testing by Structure Services. Stock testing lab reports are good for 1 year. If no stock testing lab report exists, submit one cable assembly to ODOT Salem Central Materials Lab for testing. For questions regarding stock testing, contact Structure Services (503-986-3056).
		Guardrail Hardware Metal Beam Rail	02820.30 02820.10		Q, O		F	"Q" is visual verification of AASHTO M 180, Class A, Type II stamp. "F" must document stamped markings on guardrail. Guardrail without stamp will be rejected.
		Metal Posts	02820.20		T, Q, O		F	"T" is from steel manufacturer. "Q" is from galvanizer. Note: Metal blocks are not permitted (exception is Standard Drawing BR203).
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00810 (cont)	Metal Guardrail (continued)	Wood Posts and Blocks	02110.10 02110.20 02190	Q		F	"Q" is from lumber manufacturer for grading and from treating facility for preservative treatment. ODOT approved manufacturers that treat wood posts and blocks: - All Weather Wood, LLC Plant #572 - Conrad Forest Products, North Bend - Exterior Wood, Washougal, WA - Hoover Treated Wood Products, Winston - Superior Wood Treating, Sumner, WA If posts and blocks are proposed from a source other than ODOT approved manufacturer or a source not on the Structures Services website, contact Structure Services (503-986-3056).
				Q		F	Refer to Contract Documents for "Q" requirements or use blocks from QPL.
				O		F, QPL	
						F	"F" must document verification only existing Materials were used.
00811	Cable Barrier	Cable Barrier	00811.10 00811.40	R, O		F, QPL	"R" is tension log and recommended manufacturer's tension chart.
			00811.11	O		F, QPL	
			Refer to 00810 in this guide.				
00812	Adjusting and Repairing Guardrail	Replace Damaged Materials	00812.40 00812.41(a)	Q		F	
						F, QPL	
						F, QPL	
00815	Bollards	Reflective Sheeting	00815.10 02910.20			F, QPL	
			00815.11 00815.12 00815.13	Q, O		F	"Q" is from manufacturer and galvanizer.
			00815.14	Q		F	"Q" is markings on pipe. "F" must document pipe markings; manufacturer's name and/or trademark, size and ASTM designation.

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				LAB	ENGR.				
00820	Concrete Barrier (Cast in Place)	Concrete Coating	02210.30	Q			F, QPL	"Q" is package labeling information according to 02210.10(b).	
		Reinforcement - Bar and Welded Wire Fabric	Refer to 00530 in this guide.						
		Hardware Loop Bars C-Shape Connectors	00820.11	Q, O			F	"Q" is from hardware fabricator and galvanizer.	
		Portland Cement Grout	02080.40	Q			F		
		Preformed Joint Filler	02440.10				F, QPL		
		Barrier	00820.11	O			F	Listed below are ODOT approved manufacturers: - Knife River, Harrisburg, OR - Oldcastle Infrastructure, Wilsonville, OR - EnCon Northwest, LLC, Camas, WA - Oldcastle Infrastructure, Nampa, ID - Freedom Precast, Salem, OR - Rogue Valley Precast, White City, OR	
		Concrete Coating	02210.30	Q		I		If barrier are not from ODOT approved manufacturer, contact Structure Services (503-986-3056) for acceptance information 21 Days prior to barrier casting. Requires Structure Services inspection.	
		Portland Cement Grout	02080.40	Q			F	"Q" is package labeling information according to 02210.10(b).	
		Hardware	00820.11(b)	Q, O			F	"Q" is from hardware fabricator and galvanizer.	
		Glare Shields	00822.10				F, QPL		
00822 Special Provision	Refer to Special Provisions for any additional contract specific requirements.	Hardware	00822.10	Q, O		F	"Q" is from fabricator and galvanizer.		
		Impact Attenuator System	00830.10	O		F, QPL			
00830	Impact Attenuators	Impact Attenuator System	00830.10	O		F, QPL			

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00840	Delineators and Milepost Marker Posts	Barrier Markers	00840.10			F, QPL		
		Delineator Reflective Sheeting	00840.10			F, QPL		
		Flexible Delineators	00840.10	O		F, QPL	"O" is for drive anchor.	
		Galvanized Milepost Marker Posts	00840.11	Q, O		F	"Q" is from fabricator and galvanizer.	
		Delineator Steel Posts	00840.11	Q, O		F	"Q" is from fabricator and galvanizer.	
		Stormwater Control Field Facility Markers	00840.10			F, QPL	Refer to Standard Drawings TM570 and TM571.	
		- Type S1 Markers	00842.10(a)(1)				Type 2 flexible delineator (green and red).	
		- Type S2 Markers and Type 1U Support Posts	00842.10(a)(2) 00840.11	Q, O		F	Galvanized Type 1U post with white aluminum marker. "Q" is from fabricator for markers. "Q" is from fabricator and galvanizer for posts.	
		- Type S3 Markers	00842.10(a)(3) 02450.30	Q, O		F	"O" is for Type 1U posts and hardware. Manhole cover.	
		Culvert Drainage Facility Markers	00842.10(b)(1) 00850.10			F, QPL	Type B according to 00867.45.	
- Type 2 Drainage Markers and Type 1U Support Posts	00842.10(b)(2) 00840.11	Q, O		F	Galvanized Type 1U post with white aluminum marker. "Q" is from fabricator for markers. "Q" is from fabricator and galvanizer for posts.			
Bridge Facility Markers	00842.10(c) 02910	Q		F	Aluminum sheet.			
- Galvanized Type 1 Support Posts	00840.11 00842.10(c)	Q, O		F	"Q" is from fabricator and galvanizer.			
- SS Mechanical Anchors	00842.10(c)	O		F, QPL	Refer to QPL 00535.10B.			

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									LAB	ENGR.
00850	Pavement Markings	Submittals	00850.31 00850.40 00850.42	E, P			"E" is submittal(s): - according to 00850.40 at least 7 Calendar Days before the loss of existing pavement markings; and - according to 00850.42 at least 5 Calendar Days before the pre-stripping conference. "P" is submittal(s) according to 00850.31 for Sections referencing 00850.31. Do not begin installation before receiving the Engineer's approval.			
		- Adhesive for Pavement Markers - High Performance IS20 pavement Markings - Methyl Methacrylate - Pavement Markers - Marking Paint - Marking Tape - Thermoplastic	00850.10 00850.30 00865.75 00866.75 00867.75 00868.75	W, P, M		F, QPL	"W" is for Pavement markings requiring manufacturer's warranty. Certified installers required for Sections referencing 00850.31. Manufacturer's representative required to be on-site during installation and authorized to sign warranty on behalf of the manufacturer for Sections referencing 00850.30.			
		Reflective Elements	00850.10 00850.47(c)	R		F, QPL	"QPL" is for paint application, otherwise follow manufacturer's recommendation. "R" is for non-paint applications. Test according to ODOT TM777 providing retroreflectivity test printouts and summary forms.			
		Bituminous Adhesive – Permanent Applications	00850.11		L	F, QPL	"L" is test results from ODOT Salem Central Materials Lab. Submit a 1.5 lb. brick sample of flexible bituminous adhesive to ODOT Salem Central Materials Lab at least 2 weeks before using. Must be tested by lot number. "F" must document the lot number.			
		Pavement Markers Pavement Marker Adhesive	Refer to 00850 in this guide.							
		Note: Maximum amount of pavement marker adhesive required for 200 pavement markers may be accepted as small quantity with "F" as long as the adhesive is from the QPL.								
		Surface Mounted Tubular Markers	Tubular Markers	00856.10	O		F, QPL			
		Rumble Strips	Section does not contain any nonfield-tested materials.							
		Longitudinal Pavement Markings – Paint	Paint and Reflective Elements	Refer to 00850 in this guide.						

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB	BY FIELD	
00865	Longitudinal Pavement Markings – Durable	- Methyl Methacrylate - Thermoplastic - Reflective Elements	Refer to 00850 in this guide.					
00866	Longitudinal Pavement Markings – High Performance	- Plural Component - Hi-Build Paint - Reflective Elements - Marking Tape	Refer to 00850 in this guide.					
00867	Transverse Pavement Markings – Legends and Bars	Type A through Type D Reflective Elements	Refer to 00850 in this guide.					
			Note: Maximum 3 legends and/or bars may be accepted as small quantity without reflectivity testing with "F" as long as the marking material is from QPL and reflective elements are according to manufacturer.					
00868 Special Provision	Colored Lane Markings <i>Refer to Special Provisions for any additional contract specific requirements.</i>	- Thermoplastic - Methyl Methacrylate	Refer to 00850 in this guide.					
00869 Special Provision	Curb and Non-Traversable Median Markings <i>Refer to Special Provisions for any additional contract specific requirements.</i>	- Paint - Thermoplastic	Refer to 00850 in this guide.					
00900 - PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS								
00902 Special Provision	Crosswalk Closure Supports <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Steel	Refer to 01070 in this guide.					
		Signs	Refer to 00940 in this guide.					
00905	Removal and Reinstallation of Existing Signs	Permanent Supports Hardware	Refer to 00910, 00920, and 00930 in this guide. 02910.40	Q, O			F	"Q" is from manufacturer and galvanizer when new hardware is used. "O" is for new hardware. "F" must document whether new or existing hardware used.

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00910	Wood Sign Posts	Posts		Q			F	"Q" is for grading requirements and may be satisfied by physically including the tag(s) provided with the lumber according to 02110.40.
		Preservative Treatment - Manufactured		T			F	"T" is for preservative treatment and may be satisfied by physically including the tag(s) provided with the lumber according to 02190.10.
		Preservative Treatment - Field					F, QPL	
00920	Sign Support Footings	Reinforcement	Refer to 00530 in this guide.					
		High-Strength Tie Rods	02560.30(b)	T			F	"T" is from manufacturer.
		- Anchor Bolts/Rods	02560.30(c)		T, Q, O	L		"Q" is from the galvanizer.
		- Nuts and Washers	02560.30(d)					"L" is test results from ODOT Salem Central Materials Lab. Submit samples per size per lot according to 02560.60(b) to ODOT Salem Central Materials Lab for testing.
		Carbon Steel Tie Rods	02560.30(a)		T, Q, O		F	"T" is from manufacturer.
		- Anchor Bolts/Rods	02560.30(c)					"Q" is from fabricator and galvanizer.
		- Nuts and Washers	02560.30(d)					
		Conduit	00960		Q, O		F	"Q" is markings on conduit.
			00970					
			00990					"F" must document manufacturer's name, size and designation.
00921	Major Sign Support Drilled Shafts	Submittals	00921.40(a)	E				"E" is submittal(s) according to 00921.40(a) and 00150.35 at least 21 Calendar Days before beginning shaft construction.
		- Drilled Shaft Installation Plan						Do not begin drilled shaft construction Work until all drilled shaft submittals have been approved.
		- Drilled Shaft Repair Plans	00921.40(b)	E				"E" is submittal(s) according to 00921.40(b) and 00150.35 for unacceptable shafts.
								Do not begin repair operations before remedial procedures or designs are approved.
		- Drilled Shaft Inspection Reports	00921.40(c)	R				"R" is report(s) according to 00921.40(c) within 21 Calendar Days after completion and acceptance of each shaft.
		- Concrete Placement Logs and Volume Curves	00921.40(d)	E				"E" is submittal(s) according to 00921.40(d) within 24 hours after completion of shaft concrete placement for each shaft.

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00921 <i>(cont)</i>	Major Sign Support Drilled Shafts <i>(continued)</i>	- Personnel Qualifications	00921.30	E			"E" is personnel qualifications according to 00921.30. Do not begin Work on any drilled shafts until qualifications have been approved.	
		Reinforcement	Refer to 00530 in this guide					
		Anchor Bolts	Refer to 00920 in this guide					
		Crosshole Sonic Log Access Tubes	00921.15	R, Q, O		F	"R" is Contractor's crosshole sonic log test reports according to 00921.48(b).	
		Crosshole Sonic Log Cement Grout	00921.18 02080 02010			F, QPL	Non-epoxy or tendon grout	
		Minor Breakaway Sign Supports - Multi-Post - Triangular Base - Pipe	00930 00930.10 02530	Q, O		F	Refer to Standard Traffic Drawings. "Q" is from galvanizer.	
		Perforated Steel Square Tube - Slip Base Sign Supports - Anchor Sign Supports	00930 00930.10	Q, O		F, QPL	Refer to Standard Traffic Drawings. "Q" is from galvanizer.	
		Other Sign Supports and Mounts - 90 Degree Rotational - Pipe	00930 02530	Q, O		F	"Q" is from galvanizer.	
		High-Strength - Bolts, Nuts and Washers	02560.20 02560.60(b)	T, Q, O		F	"T" is from manufacturer and includes RoCap testing from high-strength bolt Supplier according to 02560.60(a). "Q" is from galvanizer.	
		Working Drawings	00930.02	E			"E" is submittal(s) according to 00930.02 and 00150.35 prior to fabrication and after installation for structural metalwork. Engineer responsible for notification of fabrication and for providing shop drawings to ODOT Milwaukie Materials Lab (971-673-7002).	
00930	Metal Sign Supports - Minor <i>(continued on next page)</i>							

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB	BY FIELD	
				LAB	ENGR.			
00930 (con't)	Metal Sign Supports - Major (continued)	Major Sign Supports - Truss Sign Bridges - Monotube Sign Bridges - Butterfly Sign Structures - Monotube Cantilever Sign Structures	00930 00930.10 02530	T, O, Q		I	F	"T" is from the steel manufacturer. "Q" is identifying tag on overhead and butterfly sign support Structures only. "F" must document identification tag information. Engineer responsible to contact the ODOT Milwaukie Materials Lab (971-673-7002) to coordinate inspection of fabrication and required testing. Structure Services will perform inspection for all Materials and fabrication.
		High-Strength - Bolts, Nuts, Washers - Direct Tension Indicators	02560.20 02560.60(b)	T		T, Q, O, R L	F	"T" is from manufacturer and includes RoCap testing from high-strength bolt Supplier according to 02560.60(a). "Q" is from galvanizer. "R" is RoCap field testing at the time of installation according to 02560.60(a). "L" is test results from ODOT Salem Central Materials Lab. Submit samples per size per lot according to 02560.60(b) to ODOT Salem Central Materials Lab.
00940	Signs	Finished Signs (with ODOT Sticker)	00940.46 02910		W	I	F	"W" is for Type III, IV, and IX (Wide Angle) sheeting. "I" is ODOT inspection sticker provided by Structure Services. Includes everything except hardware and posts. "F" must document ODOT inspection sticker is attached to signs. Structure Services will ensure sampling and testing of aluminum substrate.
00941	Sign Covers	Hardware Permanent Signs	02910.40 00941.10			Q, O	F	"Q" is from manufacturer and galvanizer. Provide from QPL or as approved by the sign sheeting manufacturer. Do not use plywood.
00950	Removal of Electrical Systems	Section does not contain any nonfield-tested materials.						

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB		BY FIELD
00960	Common Provisions for Electrical Systems	Equipment List and Drawings Submittals	00960.02 00960.10	E		BG	"E" is submittal(s) according to 00960.02 and 00150.37 within 30 Calendar Days after execution of the Contract. Do not proceed with the Work before receiving written approval of the submittals from the Engineer. Refer to Contract Documents. Traffic Section's Signal Standards Group has two lists to simplify Contractor submittals: "Blue Sheets - Submittals for Field Qualification" and "Green Sheets - Submittals for Conditional Qualification." Engineer will obtain and furnish to the Contractor copies of the most recent lists. Follow instructions in the Blue and Green Sheets for qualification and documentation requirements.	
		Personnel Submittals	00960.30	P			"P" is submittal(s) according to 00960.30 for licensed electrician. NOTE: Every person installing electrical systems must submit a copy of their electrical license or apprentice registration prior to performing Work.	
		Delineators	Refer to 00840 in this guide.					
		Metal Illumination and Traffic Signal Supports	Refer to 00962 in this guide.					
		Reinforcement - in Vehicle Pedestal Foundations (QPL Approved)	02510.10	O		F, QPL	"F" must document steel manufacturer's identification markings rolled into the bar. "QPL" is for rebar manufacturer.	
		Carbon Steel - Anchor Bolts/Rods - Tie Rods - Nuts and Washers	02560.20 02560.30 02560.40	T, Q, O		F	"T" is from manufacturer. "Q" is from galvanizer. Refer to Standard Drawing TM457.	

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB	BY FIELD	
00962	Metal Illumination and Traffic Signal Supports	Calculations and Drawings Submittals	00962.02		E			"E" is submittal(s) according to 00962.02 and 00150.35 within 30 Calendar Days after execution of the Contract. Refer to Contract Documents.
		High-Strength - Anchor Bolts/Rods - Tie Rods - Nuts and Washers	00962.10 02560.30(b-c) 02560.40 02560.60	T	T, Q, O	L	F	"T" is from manufacturer. "Q" is from galvanizer.
		Carbon Steel - Anchor Bolts/Rods - Tie Rods - Nuts and Washers	02560.30(a) 02560.40		T, Q, O		F	"T" is from manufacturer. "Q" is from galvanizer.
		High-Strength - Bolts, Nuts and Washers	00962.10 02560.20 02560.60	T	T, Q, O, R	L	F	"T" is from manufacturer and includes RoCap testing from high-strength bolt Supplier according to 02560.60(a). "Q" is from galvanizer.
								"R" is RoCap field testing at the time of installation according to 02560.60(a).
								"L" is test results from ODOT Salem Central Materials Lab. Submit samples per size per lot according to 02560.60(b) to ODOT Salem Central Materials Lab for testing.
		Traffic Signal and Illumination - Steel Poles - Mast Arms - Luminaire Arms - Base Plates	00962.10 02530		T, Q, O		F	"T" is from pole manufacturer. Silicon content required according to 002530.70. "Q" is from manufacturer and galvanizer.

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB		BY FIELD
00963	Signal Support Drilled Shafts	Submittals: - Drilled Shaft Installation Plan	00963.40(a)	E			"E" is submittal(s) according to 00963.40(a) at least 21 Calendar Days before beginning shaft construction. Do not begin drilled shaft construction Work until all drilled shaft submittals have been approved.	
				E			"E" is submittal(s) according to 00963.40(b) and 00150.35 for unacceptable shafts. Do not begin repair operations before remedial procedures or designs are approved.	
				E			"E" is personnel qualifications according to 00963.30. Do not begin Work on any drilled shafts until qualifications have been approved.	
							Refer to 00530 in this guide.	
00970	Highway Illumination	Equipment List and Drawings Submittals	00960 00962 00970.02 02926	E		BG	"E" is submittal(s) according to 00970.02. Refer to Contract Documents. The Traffic Section's Signal Standards Group has two lists to simplify Contractor submittals: "Blue Sheets – Submittals for Field Qualification" and "Green Sheets – Submittals for Conditional Qualification". Engineer will obtain and furnish to the Contractor copies of the most recent lists. Follow instructions in the Blue/Green Sheets for qualifications and documentation requirements.	
		Common Electrical Items	Metal Illumination and Traffic Signal Supports	Refer to 00960 in this guide.				
				Refer to 00962 in this guide.				
		Wood Poles	Cable and Wire	Refer to Special Provisions or Contract Plans.		BG	BG	Follow instructions in the Blue/Green Sheets.
				02120 02190			BG	Follow instructions in the Blue/Green Sheets.
		Photocontrol Electronic Relay				BG	BG	Follow instructions in the Blue/Green Sheets.
				00970.42				
				00970.43 02926.41				

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB	BY FIELD	
				LAB	ENGR.			
00970 <i>(cont)</i>	Highway Illumination <i>(continued)</i>	Luminaires, Lamps and Ballasts Cabinets Circuit Control Devices	00970.03 00970.44 00970.45 02926.50 02926.52 02926.53 02926.54 02926.40	Q, E		F	"Q" is from manufacturer.	
00980 - 00989 Special Provision	ITS - Structural Supports and Foundations - Electrical Components and Systems <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Variable Message Signs Anchor Bolts can be found in any of these specification sections depending on the Contract: 00980 - 00984 VMS can be found in any of these specification sections depending on the Contract: 00985 - 00989	ITS equipment is always called out by Special Provision. Q, E, O Q, E, O	Q, E, O Q, E	F F	F F	VMS signs are purchased through price agreement contracts by the ODOT ITS Unit with FHWA approval. All system documentation is on file with the ITS Unit. "Q" is satisfied by the system manufacturer and product installed documented on "F." "E" is a copy of the ITS purchase request letter and FHWA response approval letter. "O" is for anchor bolts. "F" must document verification item installed according to the Contract. Contact Region Assurance Specialist or Contract Administration Lead Worker (503-986-3027) if assistance is needed obtaining documentation.	
00990	Traffic Signals	Equipment List and Drawings Submittals	00960 00990.11	E		BG	"E" is submittal(s) according to 00990.11. Refer to Contract Documents. The Traffic Section's Signal Standards Group has two lists to simplify Contractor submittals: "Blue Sheets – Submittals for Field Qualification" and "Green Sheets – Submittals for Conditional Qualification". Engineer will obtain and furnish to the Contractor copies of the most recent lists. Follow instructions in the Blue/Green Sheets for qualifications and documentation requirements.	
		Common Electrical Items	Refer to 00960 in this guide.					
	<i>(continued on next page)</i>	Metal Illumination and Traffic Signal Supports	Refer to 00962 in this guide.					

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00990 <i>(cont)</i>	Traffic Signals <i>(continued)</i>	Illumination On and Associated Appurtenances On Traffic Signal Poles	Refer to 00970 of this guide.					
		Traffic Control Signs	00990.43 00940					
		Backer Rod and Loop Sealant	00990.10				F, QPL	Refer to Special Provisions.
01000 - RIGHT OF WAY DEVELOPMENT AND CONTROL								
01030	Seeding	Submittals - Weed Control Work Plan	01030.42(a)	E				"E" is submittal(s) according to 01030.42(a) at the preconstruction conference when applicable to Project.
		- Weed Control Coordinator	01030.30(a) 01030.42(b) 01030.42(c)(1)	P, R				"P" is submittal(s) according to 01030.30(a) at the preconstruction conference. "R" is documentation according to 01030.42(c)(1) from an approved disposal facility.
		Topsoil, Soil Conditioners, Amendments, and Bio-Amendments	Refer to 01040 in this guide.					
		Seed	01030.13 01030.60 01030.61	T, Q			F	"T" is test results and calculations for pure live seed according to Special Provisions. "Q" is information on label (may be documented separately with a verifiable lot number). "F" must document that minimum ground coverage is achieved at end of Establishment Period.
		Fertilizers	01030.14	Q			F	"Q" is label on container. "F" must document fertilizer proportions from label.
		Hydromulch	01030.15(a)				F, QPL	
		Straw Mulch	01030.15(b)	T or Q			F	Submit "Q" or "T" according to 01030.15(b).
		Compost Mulch	01030.15(c) 03020	T, Q, P/R			F	"T" is particle size and media parameters results according to 03020.10. "Q" is compost requirements according to 03020.10. "P/R" is copy of DEQ permit or registration of compost producer.
	<i>(continued on next page)</i>							

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01030 <i>(cont)</i>	Seeding <i>(continued)</i>	Tackifier	01030.16		Q		F	"Q" is manufacturer's federal registered label, and MSDS (if requested). Must receive approval prior to use.	
		Pesticides	01030.17 01030.30(b)		Q, P		F	"P" is for pesticide applicator according to 01030.30(b).	
01040	Planting	Submittals - Planting Work Plan	01040.04(a)		E			"E" is submittal(s) according to 01040.04(a) within 90 Calendar Days of Award of the Contract.	
		- Pesticide Applicators License and Chemical Registration	01040.03(b)		P			"P" is submittal(s) according to 01040.03(b).	
		Soil Testing	01040.13		T		F	"T" is Soil fertility test and Soil amendment report. "F" must document Soil sampling locations.	
		Selected Topsoil	00330.10 00330.11 01040.14(a)				F	"F" must document selected Topsoil appears to be plant and weed free, and is part of the Soil "A" horizon. Submit 20 lb sample to Engineer for approval.	
		Imported Topsoil	01040.14(b)		Q	L	F	"L" is test results from ODOT Salem Central Materials Lab. "Q" must confirm weed free. Submit 20 lb sample to Engineer.	
		Wetland Topsoil	01040.14(c)		Q		F	"Q" must confirm wetland Topsoil is free from substances detrimental to plant growth. Submit 20 lb sample to Engineer for approval.	
		Soil Conditioners, Amendments, and Bio-Amendments	01040.15 01040.16 01040.17 03020		T, Q, P/R		F	"T" and "P/R" are for commercially manufactured compost according to 03020.90. Submit 15 lb. sample of mushroom compost and Peat moss Soil conditioners to Engineer for approval.	
		Fertilizers	01030.14 01040.18		Q		F	"Q" is label on container. "F" must document fertilizer proportions from label.	
			<i>(continued on next page)</i>						

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB		BY FIELD	
									LAB
01040 <i>(cont)</i>	Planting <i>(continued)</i>	Plants	01040.19 01040.70-79	Q			F	"Q" is State inspection certificate and shipping certificate for each load or lot of plant material according to 01040.19(c). "Q" for sod lawn can be from turf farm according to 01040.19(h)(17). "F" must document the condition of the plants at each inspection and Final Inspection.	
		Mulch - Bark - Cinder - Rock - Wood Chip	01040.20					F	"F" must document mulch appears to meet the applicable requirements of 01040.20(a),(b),(d),(e).
		Straw Mulch	01030.15(b) 01040.20(c)	T or Q				F	Submit "T" or "Q" according to 01030.15(b).
		Compost Mulch	01040.20(f) 03020	T, Q, P/R				F	"T" is particle size and media parameters results according to 03020.10. "Q" is compost requirements according to 03020.10.
		Herbicides	01040.21	Q				F	
		Water - Moisture Retention Chemicals	01040.22(b)					F, QPL	
		Reinforcement	Refer to 00530 in this guide.						
		Barbed Wire	03010.10		Q, O			F	"Q" is from manufacturer and galvanizer.
		Chain Link Fabric, Ties, and Tension Wire	03010.30		Q, O			F	
		Fence Gates and Hardware	03010.60		Q, O			F	"Q" is from manufacturer and galvanizer.
01050	Fences	Metal Fence Posts, Braces, and Appurtenances	03010.50	Q, O			F	"Q" is from manufacturer and galvanizer.	
		Wood Fence Posts and Braces	00570.40 02110.30 02190	T, Q			F, QPL	"T" is for preservative treatment and may be satisfied by physically including the tag(s) provided with the lumber according to 02190.10. "Q" is from manufacturer.	
								"QPL" is for field preservative treatment.	

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				FURNISHED BY CONTRACTOR TO LAB	ENGR.	BY MATERIALS LAB	BY FIELD	
01050 (cont)	Fences (continued)	Guardrail Elements						
		Pickets	03010.31	Q, O			F	"T" is from manufacturer.
		Protective Fence Materials	02530 03010.75	T, Q, O			F, QPL	"Q" is from galvanizer for steel plates, angles, and bolts. "Q" is from manufacturer for chain link fabric, ties, tension wire, posts, and pickets. "QPL" is for resin bonded anchor system.
		Vinyl Clad Fabric	03010.40	Q, O			F	
		Wildlife Fencing Fabric	03010.21	Q, O			F	"Q" is from manufacturer and galvanizer.
		Woven Wire	03010.20	Q, O			F	"Q" is from manufacturer and galvanizer.
		Reinforcement	Refer to 00530 in this guide.					
01070	Mailbox Supports	Tube Support Frame	01070.12	Q, O			F, QPL	"Q" is from manufacturer and galvanizer if not from QPL.
		Mounting Brackets and Hardware	01070.13	Q, O			F, QPL	"Q" is from manufacturer and galvanizer if not from QPL.
		Post Mounting Socket	01070.14	O			F, QPL	
		Soil Sterilant	01090.10	Q			F, QPL	"Q" is label(s) listing active ingredients or from QPL. Submit sample to Engineer for approval.
		Weed Control Geotextile	01090.11				F, QPL	
01095 Special Provision	Site Furnishings <i>Refer to Special Provisions for any additional contract specific requirements.</i>	Materials	Refer to Contract Documents for required documentation.					"O" may be required according to 00160.20.
		01100 - WATER SUPPLY SYSTEMS						
01120	Irrigation Systems <i>(continued on next page)</i>	Submittals - General (Materials List)	01120.10	E				"E" is submittal(s) according to 01120.10 as soon as practicable after Award and before arranging for procurement of any materials.
		- As Built Plans and System Orientation	01120.70	E				"E" is submittal(s) according to 01120.70 upon completion of the Work.
		- Drip Line Tubing Manufacturer Warranty	01120.75	W				"W" is drip line tubing manufacturer warranty according to 01120.75 and 00170.85(c)(1).

*Special Provisions, Contract Plans and Standard Specifications take precedence over the information in this guide. Refer to your Contract for documentation requirements.

Oregon Department of Transportation
 Nonfield-Tested Materials Acceptance Guide
 2021 Standard Specifications

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS
				FURNISHED BY CONTRACTOR TO LAB	BY MATERIALS LAB	BY FIELD	
01120 (cont)	Irrigation Systems (continued)	Galvanized Pipe and Fittings	01120.11(a)		Q, O	F	"Q" is from manufacturer and galvanizer.
		PVC Pipe and Fittings	01120.11(b) 01120.11(c)		Q	F	"Q" is markings on pipe.
		Polyethylene Pipe	01120.11(d)		Q	F	"F" must document manufacturer's name, size, and ASTM designation. "Q" is markings on pipe.
		Other Materials	01120.12-21		Q, O	F	"F" must document manufacturer's name, size, and ASTM designation. "Q" is from manufacturer.
		Bolted, Sleeve-Type Couplings for Plain End Pipe	02475.60		Q, O	F	"Q" is from manufacturer.
		Detectable Marking Tape and Wire	00445.11 02470.60		Q	F	"Q" required for tracer wire.
		Ductile Iron Pipe and Fittings	02470.20 02475.20		Q, O	F	"Q" is markings on pipe. "F" must document manufacturer's name, size, and AWWA designation.
		Polyethylene Encasement	02470.50		Q	F	"Q" is markings on pipe.
		PVC Pipe and Fittings	02470.40 02470.45 02475.40 02475.45		Q	F	"F" must document manufacturer's name, size, and ASTM or AWWA designation.
		Reinforcement		Refer to 00530 in this guide.			
01140	Potable Water Pipe and Fittings	Restrained Joints	02475.50		Q	F	Restraint systems provided for pipe bells must be certified by the pipe manufacturer.
		High Density Polyethylene Pipe and Fittings	02470.31 02475.31		Q	F	"Q" is markings on pipe. "F" must document manufacturer's name, size, and ANSI or AWWA designation.
01150	Potable Water Valves	Valves, Power-Actuating Devices, and Backflow Prevention Devices	02480.10-70		Q, O	F	All Materials must conform to ANSI/NSF Standard 61, Drinking Water System Components - Health Effects, or equivalent.

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2021 Standard Specifications

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS				REMARKS
				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB	BY FIELD	
				LAB	ENGR.			
01160	Hydrants and Appurtenances	Bollards	Refer to 00815 in this guide.					
		Gate Valves	2480.20	Q			F	
		Hydrants, End Connections, Extensions, and Traffic Flange	02485.10 02485.20 02485.40 02485.50	Q, O			F	
		Tie Rods	02485.60 02560.30 02560.40	T, Q, O			F	"T" is from manufacturer. "Q" is from galvanizer.
		Valve Boxes and Extensions	02480.25 02480.26	O			F	
		Potable Water Service Connections, 2 Inch and Smaller	02490.10-80	Q, O			F	All Materials must conform to ANSI/NSF Standard 61, Drinking Water System Components - Health Effects, or equivalent.
01170	Potable Water Service Connections, 2 Inch and Smaller							

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SUMMARY OF CHANGES

2021 Standard Specifications Update Summary		
The 2021 Standard Specifications edition applies to all ODOT projects that bid on or after December 1, 2020.		
General Topic	Issue	Resolution
Pay Note / FIR	<p>When an FIR is required by this guide, (either an initial FIR or additional FIR for extra quantity), New Field Inspection Information (Page 3) of form 734-2605 MUST be completed to satisfy the "F" requirement unless otherwise stated in this guide. Page 3 of form 734-2605 is the FIR.</p> <p>When this guide states in the Remarks column "FIR must document..." use the Remarks field on Page 3 of form 734-2605 to document that information. If more room is needed, use the Calculations/Remarks field on Page 1 of form 734-2605 to document that information.</p> <p>If the FIR requirement is being satisfied or supported by photograph(s) or other documents, note on the FIR as described above and either:</p> <ul style="list-style-type: none"> - convert the photograph(s)/documents to PDF and add to the end of the completed pay note/FIR PDF; or - attach as supporting document(s) to the pay note within Doc Express. 	
00225 from 2018 Standard Specifications		<p>Former Section 00225 has been broken out into Sections 00221-00229 for the 2021 edition.</p> <p>See individual sections below for details.</p>
Curing Material Testing Requirements		<p>In 2019, a specification change was made that implied that testing was to no longer be done on liquid membrane-forming curing compounds; this guide and lab testing procedures were not updated to reflect that change.</p> <p>Structure Services submitted a specification change request in November 2020 to revert to 02050 back to the original specification language requiring testing; a boilerplate Special Provision with these changes is forthcoming.</p> <p>Testing is still required as noted in this guide in the meantime. If questions, contact Structure Services.</p>

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SUMMARY OF CHANGES

Section (SP=Special Provision)	Type of Construction	2021 NTMAG Revision Overview (NOT DETAILED BELOW: <i>minor language and formatting revisions for guide consistency; subsection reference and language revisions to align with Standard Specifications.</i>)	2021 Standard Specifications (SS) Revision Overview
PART 00200 TEMPORARY FEATURES AND APPURTENANCES			
SP00205	Field Laboratory, Weighhouse, etc.	<i>No nonfield-tested materials in this section.</i>	Section removed from SS, available as Boilerplate SP.
00210	Mobilization	<i>No nonfield-tested materials in this section.</i>	Added Doc Express language.
00220	Accommodations for Public Traffic	<i>No nonfield-tested materials in this section.</i>	Minimal revisions to SS.
00221	Common Provisions for Work Zone Traffic Control	Section newly included in this guide includes Traffic Control/TCP, TP&DT and Work Zone Fencing.	Former 00225 has been broken out into Sections 00221-00229.
00222	Temporary Traffic Control Signs	Section newly included in this guide includes Temporary Signs, Sign Supports and Covers, Temporary Electrical Signs.	Former 00225 has been broken out into Sections 00221-00229.
00223	Work Zone Traffic Control Labor and Vehicles	Section newly included in this guide includes Flaggers, TCS, work zone traffic control vehicles.	Former 00225 has been broken out into Sections 00221-00229.
00224	Temporary Traffic Channelizing Devices	Section newly included in this guide includes Markers, Drums, Delineators, Barricades.	Former 00225 has been broken out into Sections 00221-00229.
00225	Temporary Pavement Marking	Extensively revised section now includes Pavement Markers, Temporary Tape, Painted Striping, Temporary Rumble Strips.	Former 00225 has been broken out into Sections 00221-00229.
00226	Temporary Roadside Barriers and Impact Attenuators	Section newly included in this guide includes Temporary Guardrail, Temporary Barrier and Appurtenances, Temporary Impact and Truck Mounted Attenuators.	Former 00225 has been broken out into Sections 00221-00229.
00227	Temporary Traffic Signals and Illumination	Section newly included in this guide includes Temporary Illumination, Temporary and Portable Traffic Signals.	Former 00225 has been broken out into Sections 00221-00229.

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00228	Temporary Pedestrian and Bicyclist Routing	Section newly included in this guide includes Pedestrian and Bicycle Channelizing Devices, Temporary Curb Ramps and Walks.	Former 00225 has been broken out into Sections 00221-00229.
SP00229	Smart Work Zone Systems	Boilerplate SP newly included in this guide due to the correlation to previous 00225 and increased usage on projects. Formerly specified in 00225, 00229 includes Smart Work Zone Systems and Traffic Control Devices.	Boilerplate SP. Former 00225 has been broken out into Sections 00221-00229.
SP00231	Temporary Access Road	Boilerplate SP newly included in this guide to account for Geotextile, Geogrid, and Permanent Seeding requirements.	Boilerplate SP.
00240	Temporary Drainage Facilities	No <i>nonfield-tested materials</i> in this section.	No revisions to SS.
SP00245	Temporary Water Management	Boilerplate SP newly included in this guide to account for “E” and “R” requirements.	Boilerplate SP.
SP00250	Diversion Bridges (Contractor Provided)	Boilerplate SP newly included in this guide to account for “E” requirement.	Boilerplate SP.
00253	Temporary Work Access and Containment	SS newly included in this guide to account for “E” requirement.	Moderate revisions to SS.
00270	Temporary Fences	No notable revisions.	Minimal revisions to SS.
00280	Erosion and Sediment Control	Added: - Erosion and Sediment Control Plan item. - Erosion and Sediment Control Monitoring item. - Note in Remarks regarding tackifier for Compost. - Straw Bales item. - Sediment Control – Geotextile item.	Moderate revisions to SS.
00290	Environmental Protection	Added Turbidity Monitoring item.	Moderate revisions to SS.

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SUMMARY OF CHANGES

PART 00300 ROADWORK			
00305	Construction Survey Work	<i>No nonfield-tested materials in this section.</i>	Former Boilerplate SP newly included in SS.
00310	Removal of Structures and Obstructions	<i>No nonfield-tested materials in this section.</i>	Minimal revisions to SS.
00320	Clearing and Grubbing	<i>No nonfield-tested materials in this section.</i>	Moderate revisions to SS.
00330	Earthwork	SS newly included in this guide to account for Selected Topsoil item.	Very minimal revisions to SS.
00331	Subgrade Stabilization	SS newly included in this guide to account for Subgrade Geotextile and Subgrade Reinforcement Geogrid items.	No revisions to SS.
00335	Blasting Methods and Protection of Excavation Backslopes	SS newly included in this guide to account for "E" and "R" requirements.	Minimal revisions to SS.
00340	Watering	SS newly included in this guide to account for Additives item.	No revisions to SS.
SP00344	Treated Subgrade	<i>No nonfield-tested materials in this section.</i>	Section removed from SS, available as Boilerplate SP.
00350	Geosynthetic Installation	Added Remarks for "T" requirement, Type 1 MSEW Geogrid.	Moderate revisions to SS.
SP00360	Drainage Blankets	<i>No nonfield-tested materials in this section.</i>	Section removed from SS, available as Boilerplate SP.
00370	Finishing Roadbeds	<i>No nonfield-tested materials in this section.</i>	No revisions to SS.
00390	Riprap Protection	No notable revisions.	Minimal revisions to SS.
00396	Shotcrete Slope Stabilization	Added "E" and Remarks to account for submittals.	Extensive revisions to SS.
00398	Rock Slope Stabilization and Reinforcement	Remarks added for "E" requirements.	Very minimal revisions to SS.

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SUMMARY OF CHANGES

PART 00400 DRAINAGE AND SEWERS		
00405	Trench Excavation, Bedding, and Backfill	Minimal revisions to SS.
00406	Tunneling, Boring, and Jacking	Remarks added for "E" requirements.
00410	Common Provisions for Pipe Lining	Section removed from SS. Not a Boilerplate SP. Section deleted.
00411	Pipe Bursting and Slip Lining	Removed subsection references to 00410. Remarks added for "E" and "Q" requirements.
00412	Cured in Place Pipe Lining	Remarks added for "E" and "Q" requirements.
00413	GRP Cured in Place Pipe Lining & UV Care	Section newly included in this guide.
00414	Pipe Renewal Spray Applied Pipe Structural Liner	Section newly included in this guide.
00415	Video Pipe Inspection	Remarks added for "R" requirements.
SP00420	Salvaging Pipe	No notable revisions.
00430	Subsurface Drains	Added Wire Mesh item.
SP00435	Prefabricated Vertical Drains	Remarks added for "E" and "Q" requirements.
00440	Commercial Grade Concrete	Section removed from SS, available as Boilerplate SP.
00442	Controlled Low Strength Materials	Very minimal revisions to SS.

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SUMMARY OF CHANGES

00445	Sanitary, Storm, Culvert, Siphon, and Irrigation Pipe	Added: - Video Pipe Inspection Item. - Asphalt Mastic item.	Very minimal revisions to SS.
00446	Trench Drains	Trench Drains: - Removed "O" requirement. - Added "Q" requirement if not from QPL.	Very minimal revisions to SS.
00450	Structural Plate Shaped Structures	Added Asphalt Mastic item.	Very minimal revisions to SS.
00460	Paved Culvert End Slopes	No revisions to this guide.	No revisions to SS.
00470	Manholes, Catch Basins, and Inlets	Revisions to list of ODOT Approved Manufacturers. Added Concrete Drain Tile item.	Minimal revisions to SS.
SP00475	Drain Wells	No revisions to this guide.	Section removed from SS, available as Boilerplate SP.
00480	Drainage Curbs	No revisions to this guide.	Minimal revisions to SS.
00490	Work on Existing Sewers and Structures	No revisions to this guide.	Minimal revisions to SS.
00495	Trench Resurfacing	<i>No nonfield-tested materials in this section.</i>	No revisions to SS.
PART 00500 BRIDGES			
00501	Bridge Removal	<i>No nonfield-tested materials in this section.</i>	No revisions to SS.
00503	Bridge Deck Cold Plane Pavement Removal	<i>No nonfield-tested materials in this section.</i>	Very minimal revisions to SS.
00504	Concrete Deck Surface Preparation	Section newly included in this guide.	Former Boilerplate SP newly included in SS.
00510	Structure Excavation and Backfill	Section newly included in this guide to account for "E" requirements.	Moderate revisions to SS.

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00512	Drilled Shafts	Added Submittals items to account for “E” and “R” requirements.	Minimal revisions to SS.
00520	Driven Piles	Added: <ul style="list-style-type: none"> - Submittals items to account for “E”, “p” and “R” requirements. - Steel Pile Protective Coating item. - Steel Reinforcement for Concrete item. 	Minimal revisions to SS.
00530	Steel Reinforcement for Concrete	Note: Stainless Steel (A955) added to section. Added: <ul style="list-style-type: none"> - Submittals item to account for “E” requirements. - Revised by Technical Resource: > number of samples for Deformed Bar Reinforcement > size of samples for Welded Wire Fabric - Remarks added for “QPL” in three items. - Stainless Steel items (multiple). - Concrete Inserts item. - Galvanized Tie Wires item. 	Extensive revisions to SS.
00535	Resin Bonded Anchor Systems	Note: Beginning March 1, 2021 this section will be renamed to Post-Installed Anchor Systems and the boiler plate SP will replace 00535 of the SS. For projects advertised for bid January 1, 2021 through February 28, 2021 Section 00535 from the July 2020 version of this guide shall be used. Note: Beginning March 1, 2021 System Embedment Test will be required for both Resin Bonded and Mechanical Anchor Systems – refer to MFTP. Added: <ul style="list-style-type: none"> - Resin Bonded Anchor System Personnel item to account for “p” requirement. - Mechanical Anchor System item. 	Very extensive revisions to SS.
00536	Internal Shear Anchors	Added Submittals items to account for “E” requirements.	Minimal revisions to SS.

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00538	Crack Injecting Existing Bridges	Added Submittals items to account for "E" requirements.	Very minimal revisions to SS.
SP00539	Concrete and Crack Sealing	Added Submittals item to account for "E" requirements.	Boilerplate SP.
00540	Structural Concrete	Added: - Submittals item to account for "E" requirements. - Curing Blanket for Concrete Bridge Decks item. - Concrete Surface Retarder item.	Moderate revisions to SS.
SP00543	Architectural Treatment	Boilerplate SP newly included in this guide to account for "E" requirement.	Boilerplate SP.
00545	Reinforced Concrete Bridge End Panels	No revisions to this guide.	Minimal revisions to SS.
00550	Precast Prestressed Concrete Members	Added Submittals item to account for "E" requirements.	Moderate revisions to SS.
00555	Post Tensioning	Added Submittals item to account for "E" requirements.	Minimal revisions to SS.
00556	Multi Layer Polymer Concrete Overlay	Section newly included in this guide.	Very extensive revisions to SS.
00557	Premixed Polymer Concrete Overlays	Section newly included in this guide.	Former Boilerplate SP newly included in SS.
00559	Structural Concrete Overlays	Section newly included in this guide.	Very extensive revisions to SS.
00560	Structural Steel Bridges	Note: Certification has been updated from CBR to IBR. Added Submittals item to account for "E" requirements.	Minimal revisions to SS.
00566	Carbon Fiber Reinforced Polymer Strengthening Near Surface Mounted	Section newly included in this guide.	Former Boilerplate SP newly included in SS.

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00570	Timber Structures	<p>Added Submittals item to account for "E" requirements.</p> <p>Removed duplicate Timber item; accounted for under Timber/Lumber and Preservative Treatment.</p>	Minimal revisions to SS.
00581	Bridge Drainage Systems	No revisions to this guide.	No revisions to SS.
00582	Bridge Bearings	Added Submittals item to account for "E" requirements.	Minimal revisions to SS.
00583	Electrical Conduit On Structures	<p>Added:</p> <ul style="list-style-type: none"> - Submittals items to account for "E" requirements. - Conduit and Elbows item. - Fittings and Conduit Bodies item. - Junction Boxes item. - Supports item. - Repair of Galvanizing item. <p>Removed Metal Conduit and Non Metallic Conduit items due to deleted Section 02920.</p>	Very extensive revisions to SS.
00584	Elastomeric Concrete Nosing	No notable revisions.	No revisions to SS.
00585	Expansion Joints	<p>Added:</p> <ul style="list-style-type: none"> - Submittals items to account for "E" requirements. - PTFE item. - Precompressed Foam Silicone Joint Seal item. - Preformed Compression Joint Seal item. - Stainless Steel Sliding Surfaces item. - Structural Steel item. <p>Removed:</p> <ul style="list-style-type: none"> - Compression Seal item. - Traffic Loop Sealant item. - "QPL" requirement from Steel Bridging Plate (Asphaltic Plug Joint Seal) item. 	Extensive revisions to SS.

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SUMMARY OF CHANGES

SP00586	Expansion Joints - Modular	Remarks added for "E" requirements. Previous "Additional T" for completed MBSJ revised to "M" to better reflect requirements.	Section removed from SS, available as Boilerplate SP.
00587	Bridge Rails	Added: - Epoxy Anchor Adhesive item. - Fasteners item. - Structural Steel item.	Moderate revisions to SS.
SP00588	Precast Historic Ornamental Bridge Rails	No revisions to this guide.	Boilerplate SP.
00590	Polymer Membrane	Section newly included in this guide.	Former Boilerplate SP newly included in SS.
SP00591	Spray Waterproofing Membrane	No notable revisions.	Section removed from SS, available as Boilerplate SP.
00592	Rolled Waterproofing Membrane	Section newly included in this guide.	Former Boilerplate SP newly included in SS.
00593	Powder Coating Metal Structures	Added Submittals item to account for "E" requirements.	Very minimal revisions to SS.
00594	Preparing and Coating Metal Structures	Added Submittals item to account for "E" requirements.	Minimal revisions to SS.
00595	Reinforced Concrete Box Culverts	Added Submittals item to account for "E" requirements.	Very extensive revisions to SS.
00596A	Mechanically Stabilized Earth Retaining Walls	Restructured Proprietary MSE Retaining Walls items to better reflect requirements. Added: - Nonproprietary MSE Retaining Walls Submittals item. - Remarks for "T" requirement, Geogrid Soil Reinforcement.	Minimal revisions to SS.

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00596B	Prefabricated Modular Retaining Walls	Restructured Proprietary Prefabricated Modular Retaining Walls items to better reflect requirements. Added Nonproprietary Prefabricated Modular Retaining Walls Submittals item.	Very minimal revisions to SS.
00596C	Cast In Place Concrete Retaining Walls	No notable revisions.	Very minimal revisions to SS.
00597	Sound Walls	No notable revisions.	Very minimal revisions to SS.
00599	Concrete Slope Paving	No revisions to this guide.	Very minimal revisions to SS.
PART 00600 BASES			
00610	Reconditioning Existing Roadway	<i>No nonfield-tested materials in these sections.</i>	No revisions to SS.
00620	Cold Plane Pavement Removal		Very minimal revisions to SS.
00622	Grinding Concrete Pavement		No revisions to SS.
00635	Grid Rolled Aggregate Subbase		Section removed from SS, available as Boilerplate SP.
00640	Aggregate Base and Shoulders		Very minimal revisions to SS.
00641	Aggregate Subbase, Base, and Shoulders		Very minimal revisions to SS.
00680	Stockpiled Aggregates		Very minimal revisions to SS.
PART 00700 WEARING SURFACES			
00705	Emulsified Asphalt Prime Coat and Emulsified Asphalt Fog Coat	<i>No nonfield-tested materials in this section.</i>	Minimal revisions to SS.
00706	Emulsified Asphalt Slurry Seal Surfacing	Section newly included in this guide to account for Additives and Mineral Filler requirements.	Very minimal revisions to SS.
00710	Single Application Emulsified Asphalt Chip Seal	<i>No nonfield-tested materials in this section.</i>	Minimal revisions to SS.

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00711	Pre Coated Aggregate Asphalt Chip Seal	No nonfield-tested materials in this section.	Minimal revisions to SS.
00715	Multiple Application Emulsified Asphalt Surface Treatment	No nonfield-tested materials in this section.	Very minimal revisions to SS.
00730	Emulsified Asphalt Tack Coat	No nonfield-tested materials in this section.	Very minimal revisions to SS.
00735	Emulsified Asphalt Concrete Pavement	No nonfield-tested materials in this section.	Minimal revisions to SS.
00738	Safety Edge	No nonfield-tested materials in this section.	Moderate revisions to SS.
00740	Commercial Asphalt Concrete Pavement (CACP)	No nonfield-tested materials in this section.	Very minimal revisions to SS.
00743	Porous Asphalt Concrete (PAC)	No nonfield-tested materials in this section.	Minimal revisions to SS.
00744	Asphalt Concrete Pavement	No nonfield-tested materials in this section.	Moderate revisions to SS.
00745	Asphalt Concrete Pavement Statistical Acceptance	Section newly included in this guide to account for Aggregate Treatment requirements.	Moderate revisions to SS.
00746	Crack Sealing Flexible Pavements	No revisions to this guide.	Very minimal revisions to SS.
00748	Asphalt Concrete Pavement Repair	No revisions to this guide.	Minimal revisions to SS.
00749	Miscellaneous Asphalt Concrete Structures	No nonfield-tested materials in this section.	No revisions to SS.
00755	Continuously Reinforced Concrete Pavement	Added Dowels item.	Extensive revisions to SS.
00756	Plain Concrete Pavement	No notable revisions.	Extensive revisions to SS.
00759	Miscellaneous Portland Cement Concrete Structures	Remarks added for "E" requirements. Removed Metal Handrail item.	Extensive revisions to SS.

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PART 00800 PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES			
00810	Metal Guardrail	No notable revisions.	Minimal revisions to SS.
00811	Cable Barrier	No revisions to this guide.	Minimal revisions to SS.
00812	Adjusting and Repairing Guardrail	No notable revisions.	Moderate revisions to SS.
00815	Bollards	No revisions to this guide.	No revisions to SS.
00820	Concrete Barrier	Revisions to list of ODOT Approved Manufacturers.	Extensive revisions to SS.
SP00822	Glare Shields	No revisions to this guide.	Section removed from SS, available as Boilerplate SP.
00830	Impact Attenuators	No revisions to this guide.	Very minimal revisions to SS.
00840	Delineators and Milepost Marker Posts	No notable revisions.	Very minimal revisions to SS.
00842	Facility Identification Markers	Type S2 Markers and Type 2 Drainage Markers: - Added Type 1U Support Posts and Remarks for "Q" and "O" requirements.	Very minimal revisions to SS.
00850	Common Provisions for Pavement Markings	Added Submittals item to account for "E" requirements. Removed "M" requirement.	Minimal revisions to SS.
00855	Pavement Markers	Clarified Small Quantity note.	Very minimal revisions to SS.
00856	Surface Mounted Tubular Markers	No revisions to this guide.	Very minimal revisions to SS.
00857	Rumble Strips	<i>No nonfield-tested materials in this section.</i>	Minimal revisions to SS.
00860	Longitudinal Pavement Markings Paint	No revisions to this guide.	No revisions to SS.
00865	Longitudinal Pavement Markings Durable	No revisions to this guide.	Very minimal revisions to SS.

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00866	Longitudinal Pavement Markings High Performance	Added Marking Tape item.	Very minimal revisions to SS.
00867	Transverse Pavement Markings Legends and Bars	No revisions to this guide.	Very minimal revisions to SS.
SP00868	Colored Lane Markings	Section newly included in this guide to account for Thermoplastic and Methyl Methacrylate requirements.	Boilerplate SP.
SP00869	Curb and Non-Traversable Median Markings	Section newly included in this guide to account for Paint and Thermoplastic requirements.	Boilerplate SP.
PART 00900 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS			
SP00902	Crosswalk Closure Supports	Section newly included in this guide to account for Steel and Signs requirements.	Boilerplate SP.
00905	Removal and Reinstallation of Existing Signs	No revisions to this guide.	No revisions to SS.
00910	Wood Sign Posts	No revisions to this guide.	No revisions to SS.
00920	Sign Support Footings	Conduit: - Removed references to deleted Section 02920. - Added new subsection references.	Minimal revisions to SS.
00921	Major Sign Support Drilled Shafts	Added: - Submittals items to account for "E" and "R" requirements. - Anchor Bolts item.	Minimal revisions to SS.
00930	Metal Sign Supports	Under Minor Sign Supports: - Added to PSST Sign Supports: > "Q" requirement. > Anchor Sign Supports item. - Added to Other Sign Supports and Mounts: > 90 Degree Rotational item. > Pipe item. - Added remarks for "Q" on several items.	Minimal revisions to SS.

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00940	Signs	No notable revisions.	Minimal revisions to SS.
00941	Sign Covers	No revisions to this guide.	Very minimal revisions to SS.
00950	Removal of Electrical Systems	<i>No nonfield-tested materials in this section.</i>	No revisions to SS.
00960	Common Provisions for Electrical Systems	<p>Added:</p> <ul style="list-style-type: none"> - Delineators item. - Metal Illumination and Traffic Signal Supports item. - Reinforcement in Vehicle Pedestal Foundations item. - Carbon Steel item. <p>Removed:</p> <ul style="list-style-type: none"> - Reinforcement in Foundations item. - All items referencing deleted Section 02920. 	Very extensive revisions to SS.
00962	Metal Illumination and Traffic Signal Supports	Added Luminaire Arms item to Traffic Signal and Illumination.	Minimal revisions to SS.
00963	Signal Support Drilled Shafts	Added Submittals items to account for "E" requirements.	Minimal revisions to SS.
00970	Highway Illumination	<p>Removed:</p> <ul style="list-style-type: none"> - From Cable and Wire item: <ul style="list-style-type: none"> > "Q", "E" and "F" requirements. > References to deleted Section 02920. - "Q", "E" and "F" requirement from Photocontrol Electronic Relay item. - "BG" requirements from Cabinets item. - "BG" requirements from Circuit Control Devices item. - High-Intensity Discharge Luminaires (HID) item. 	Moderate revisions to SS.
SP00980-00989	ITS: Structural Supports and Foundations; and Electrical Components and Systems	Group of sections newly included in this guide to account for VMS requirements in the appropriate place.	Boilerplate SP.

NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE

SUMMARY OF CHANGES

00990	Traffic Signals	<p>Added:</p> <ul style="list-style-type: none"> - Illumination On and Associated Appurtenances On Traffic Signal Poles item. - Traffic Control Signs item. <p>Removed:</p> <ul style="list-style-type: none"> - Reference to 00963 for Signal Support Drilled Shafts. - Variable Message Signs (VMS). See <i>SP00980-00989</i>. - All items referencing deleted Section 02925 and 02560 (deleting 02925 removes the reference to 02560). 	Very extensive revisions to SS.
PART 01000 RIGHT OF WAY DEVELOPMENT AND CONTROL			
01030	Seeding	<p>Added:</p> <ul style="list-style-type: none"> - Submittals items to account for: <ul style="list-style-type: none"> > "E" requirements. > "P" and "R" requirements not previously listed. 	Very minimal revisions to SS.
01040	Planting	<p>Added:</p> <ul style="list-style-type: none"> - Submittals items to account for: <ul style="list-style-type: none"> > "E" requirements. > "P" requirements not previously listed. 	Minimal revisions to SS.
01050	Fences	Added Wildlife Fencing Fabric item.	Moderate revisions to SS.
01070	Mailbox Supports	No revisions to this guide.	Very minimal revisions to SS.
01090	Gravel Beds and Blankets	No revisions to this guide.	No revisions to SS.
SP01095	Site Furnishings	Section newly included in this guide to reflect potential for "O" requirement.	Boilerplate SP.
PART 01100 WATER SUPPLY SYSTEMS			
01120	Irrigation Systems	Remarks added for "E" requirements. Added "W" requirements not previously listed.	Minimal revisions to SS.
01140	Potable Water Pipe and Fittings	No revisions to this guide.	Very minimal revisions to SS.

NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE

SUMMARY OF CHANGES

01150	Potable Water Valves	No revisions to this guide.	Very minimal revisions to SS.
01160	Hydrants and Appurtenances	No revisions to this guide.	No revisions to SS.
01170	Potable Water Service Connections, 2 Inch and Smaller	No revisions to this guide.	Very minimal revisions to SS.
PARTS 02000 & 03000 – NOT LISTED IN THIS GUIDE			
02001	Concrete		2021 SS Revision Overview
02010	Portland Cement		Very extensive revisions to SS.
02015	Portland Cement Concrete Repair Material		No revisions to SS.
02020	Water		No revisions to SS.
02030	Supplementary Cementitious Materials		No revisions to SS.
02035	Concrete Modifiers		No revisions to SS.
02040	Chemical Admixtures		Very extensive revisions to SS.
02045	Synthetic Fiber Reinforcing for Concrete		No revisions to SS.
02050	Curing Materials (<i>See testing note on first page.</i>)		Moderate revisions to SS.
02055	Concrete Surface Retarders		No revisions to SS.
02060	Concrete and Crack Sealers		No revisions to SS.
02070	Bonding Agents		No revisions to SS.
02080	Grout		Moderate revisions to SS.
02090	Lime		No revisions to SS.
02110	Posts, Blocks and Braces		Very minimal revisions to SS.
02120	Poles and Piling		No revisions to SS.
02130	Timber and Lumber		No revisions to SS.
02140	Glued Laminated Timber Members		No revisions to SS.
02150	Lumber and Timber Connectors		No revisions to SS.
02190	Preservative Treatment of Lumber		Minimal revisions to SS.
02210	Coating Materials for Timber and Concrete		No revisions to SS.
02320	Geosynthetics		No revisions to SS.
02340	Rock Gabion Baskets		No revisions to SS.
02350	Metal Bin Retaining Walls		No revisions to SS.
02410	Concrete Pipe		Very minimal revisions to SS.
02415	Plastic Pipe		Minimal revisions to SS.
02420	Metal Pipe		Very minimal revisions to SS.
02430	Structural Plate Pipe		No revisions to SS.
02440	Joint Materials		Extensive revisions to SS.
02450	Manhole and Inlet Materials		Moderate revisions to SS.

NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE

SUMMARY OF CHANGES

02470	Potable Water Pipe Materials	No revisions to SS.
02475	Potable Water Fitting Materials	No revisions to SS.
02480	Potable Water Valve Materials	No revisions to SS.
02485	Hydrant and Appurtenance Materials	No revisions to SS.
02490	Potable Water Service Connection Materials, 2 Inch and Smaller	No revisions to SS.
02510	Reinforcement	Extensive revisions to SS.
02513	Stainless Steel Reinforcement	Former Boilerplate SP now in SS.
02515	Prestressing Reinforcement	No revisions to SS.
02520	Steel and Concrete Piles	Minimal revisions to SS.
02530	Structural Steel	Very minimal revisions to SS.
02540	Forgings, Shafting, Castings, and Nonferrous Materials	No revisions to SS.
02560	Fasteners	Extensive revisions to SS.
02570	Composite Bearings	Very minimal revisions to SS.
02571	Elastomeric Bearing Pads	No revisions to SS.
02610	Special Filter Material	No revisions to SS.
02630	Base Aggregate	No revisions to SS.
02640	Shoulder Aggregate	No revisions to SS.
02690	PCC Aggregates	Extensive revisions to SS.
02695	Reclaimed Glass (Mixed Waste Cullet)	No revisions to SS.
02810	Bridge Rail	Moderate revisions to SS.
02820	Metal Guardrail	Minimal revisions to SS.
02830	Metal Handrail	Former SS now Boilerplate SP.
02910	Sign Materials	Moderate revisions to SS.
02920	Common-Electrical Materials	Section deleted.
02925	Traffic-Signal Materials	Section deleted.
02926	Highway Illumination Materials	Moderate revisions to SS.
03010	Fencing Materials	Moderate revisions to SS.
03020	Erosion Materials	Very minimal revisions to SS.

INSERT TAB

3. QPL

OREGON DEPARTMENT OF TRANSPORTATION
CONSTRUCTION SECTION

QUALIFIED PRODUCTS LIST

PUBLISHING DATE:
JANUARY 2021 (AMENDED MARCH 8, 2021)



The Qualified Products List is updated every six months or amended as needed.

QUALIFIED PRODUCTS LIST

OREGON DEPARTMENT OF TRANSPORTATION

The "**QUALIFIED PRODUCTS LIST**" (QPL) is a comprehensive list of all finished products which have been evaluated and/or used by the Oregon DOT.

The "QUALIFIED PRODUCTS LIST" is made up of two types of lists:

1. The **QUALIFIED LIST** - "**Q**" is for products that have been reviewed and found to be suitable for use in a specific category. Job control testing may still be necessary. Consult the [ODOT Nonfield-Tested Materials Acceptance Guide](#), the "ODOT Field-Tested Materials Acceptance Guide", and the Project Specifications.
2. The **APPROVED LIST** - "**A**" is for commercially available products having a low consequence of failure. These products are only usable for appropriate applications. May Require a Field Inspection Report. State existence on the Approved List and recognition of the product. No additional sampling or testing is needed.

Specific questions regarding products on the un-published **CONDITIONAL LIST** can be answered by calling **503/986-3059**.
"Conditionally Approved" products need specific, prior approval for each project. Approval is given for one project at a time.

The use of all products is restricted to the category in which they are listed. Products should be used and installed as the manufacturer recommends. The QPL does not distinguish between domestic and foreign steel. Use of this list by **ODOT Maintenance** Personnel as an information resource is encouraged not required.

Note: Any change to a product on the QPL, without prior approval, will be cause for rejection of the product.

<u>Description</u>	<u>Page #</u>
Index by Category, for Spec #.....	I-III
Traffic Control Devices.....	IV
Erosion Control Devices	V - VI
Pavement Markings	VII - VIII
Qualified & Approved List.....	1 - 211
by Spec Number	
Reinforcing Steel	A1-A17

The "QPL" and submittal forms are accessible from the Internet:

[Qualified Products Web Page](#)

Although the products listed may be approved for use, they are not exempt from State Purchasing Rules, practices and guidelines, or manufacturer's warranties or guarantees.

If you have questions, contact:

Oregon Department of Transportation
800 Airport Rd SE, Salem, OR 97301-4798
Dean Chess, Phone: 503/986-3059
E-Mail: dean.m.chess@odot.state.or.us

FAX: 503/986-3096



OREGON DEPARTMENT OF TRANSPORTATION

"QPL" INDEX BY CATEGORY TO GET SPECIFICATION NUMBERS

PAGE I

CATEGORY	SPEC #
ANTI-GRAFFITI COATING - SIGNS	02910.70
ASPHALT COLD PATCH - HI PERF	00745.00
ASPHALT RELEASE AGENT	00745.22
AUTOMATED FLAGGER ASSIST. DEVICE	00223.23
BACKER ROD	02440.14
BARRICADE, TEMPORARY	00224.15
BARRIER PANELS, REFLECTIVE	00226.11
BARRIER, CABLE	00811.00
BEARINGS, BRIDGE	00582.10
BICYCLE CHANNELIZING DEVICES	00228.12
BIRD SPIKES	00907.10
BOLT GRADE ADJUSTMENT SYSTEM	00470.42
BONDING AGENT, EPOXY	02070.10
BONDING AGENT, NON-EPOXY	02070.20
CEMENT, BLENDED	02010.20
CEMENT, PORTLAND	02010.10
CEMENTITIOUS PIPE LINER	00413.10
CFRP STRENGTHENING WET LAY UP	00565.00
CHEMICAL ADMIXTURES	02040.10
CHLORIDE REMOVER	00594.13
CONCRETE & CRACK SEALER HIGH MOD.	02060.20
CONCRETE & CRACK SEALER LOW MOD.	02060.10

CATEGORY	SPEC #
CONCRETE ANCHOR, MECHANICAL	00535.10B
CONCRETE ANCHOR, RESIN	00535.10A
CONCRETE BARRIER GATE	00820.00
CONCRETE MODIFIER - LATEX	02035.00
CONCRETE SCM - BLENDED	02030.60
CONCRETE SCM - FLY ASH	02030.10
CONCRETE SCM - GGBF SLAG	02030.40
CONCRETE SCM - METAKAOLIN	02030.50
CONCRETE SCM - SILICA FUME	02030.20
CONCRETE SEALER - WATER REPELLENT	02060.30
CONCRETE SURFACE RETARDER	02055.10
CRACK INJECTION, EPOXY	00538.10
CURING BLANKET, CONCRETE	02050.30
CURING COMPOUND, CONCRETE	02050.10
DAMP PROOFING, CLEAR	00597.11
DELINEATORS - (TYPES 2, 3 & 5)	00840.10
DELINEATORS, TEMP	00224.14
DETECTABLE WARNING DEVICES	00759.12
DRAINS, TRENCH (PERFORMED)	00446.00
ELASTOMERIC CONCRETE	00584.10
ELECTRONIC CUTTABLE FILM	02910.60
EROSION CONTROL	00280.00

CATEGORY	SPEC #
EXPANSION JOINTS, BRIDGE	00585.10
FENCING, WORKZONE	00221.13
FLAGGER STATION LIGHTING	00223.22
FLAGGER STOP/SLOW PADDLE	00223.21
FLY ASH	02030.10
GALVANIZING REPAIR OF HOT-DIP	02530.71
GEOGRIDS - SUBGRADE REINFORCEMENT	02320.10
GEOGRIDS - TYPE I MSEW	02320.10
GLARE SHIELDS	00822.00
GLARESCREEN TEMPORARY	00226.11
GROUT, EPOXY	02080.10
GROUT, KEYWAY	02080.30
GROUT, NON-EPOXY (NON SHRINK)	02080.20
GROUT, STRUCTURAL	02080.60
GROUT, TENDON	02080.50
GUARDRAIL BLOCKS, PLASTIC	02110.20
GUARDRAIL TERMINALS	00810.10
HOT APPLIED JOINT SEALANT	02440.30
IMPACT ATTENUATOR, PERM.	00830.00
IMPACT ATTENUATOR, TEMP.	00226.12
IMPACT ATTENUATOR, TRUCK MTD	00226.23
JOINT FILLER, PERFORMED	02440.10

OREGON DEPARTMENT OF TRANSPORTATION

"QPL" INDEX BY CATEGORY TO GET SPECIFICATION NUMBERS

CATEGORY	SPEC#	CATEGORY	SPEC#	CATEGORY	SPEC#
LATEX EMULSION PAINT	02210.30	PAINT STRIPING BEADS, TEMP	00225.12B	POROUS PAVER	00760.00
LOOP SEALANTS, TRAFFIC	00990.43	PAINT STRIPING, TEMP	00225.12A	POURED SEALANT, SILICONE (2 PART)	02440.11
LUBE FOR FASTENERS	02560.70	PAVEMENT MARKER ADHESIVE	00855.00	PSST SIGN SUPPORTS, TEMP	00222.11E
LUBE FOR GALV FASTENERS	02560.70	PAVEMENT MARKER, FLEXIBLE	00225.10	RADAR SPEED TRAILER	00222.15C
LUBE FOR STAINLESS FASTENERS	02560.70	PAVEMENT MARKER, PERMANENT	00855.00	RAMPS, TEMPORARY SIDEWALK	00228.13
MAILBOX SUPPORTS	01070.00	PCC REPAIR	02015.20	RAPID SET CEMENT	02011.10
MANHOLE RISER RINGS	00470.00	PCC REPAIR POLYMER MODIFIED	02015.30	REBAR MANUFACTURERS	02510.10
MANHOLE STEPS	02450.30	PCC REPAIR, SURFACE	02015.50	REBAR SPLICE, MECHANICAL	02510.20
MARKERS, CONICAL	00224.11	PCMS / PVMS - CHNGABLE MESSAGE SIGN	00222.15B	REFLECTIVE ELEMENTS FOR MARKINGS	00850.00
MARKERS, TUBULAR	00224.10	PEDESTRIAN CHANNELIZING DEVICE	00228.10	REINFORCEMENT, HEADED BAR	02510.25
MARKERS, TUBULAR, SURF. MTD, PERM.	00856.10	PERFORATED STEEL SQ TUBE - ANCHORS	00930.00	ROCK BOLTS	00398.00
MARKERS, TUBULAR, SURF. MTD, TEMP.	00224.12	PERFORATED STEEL SQ TUBE - SLIP BASE	00930.00	SEQUENTIAL ARROW SIGN	00222.15A
MARKINGS, LONGITUDINAL - DURABLE	00865.00	PERFORATED STEEL SQ TUBE - SUPPORTS	00930.00	SIGN COVERS, TEMPORARY	00222.12A
MARKINGS, LONGITUDINAL - HIGH PERF	00866.00	PILE TIPS	00520.00	SIGN SHEETING, TYPES I - X	02910.20
MARKINGS, LONGITUDINAL - PAINT	00860.00	PIPE - POLYETHYLENE	02415.10	SIGN SHEETING, WORKZONE RIGID	00222.10B
MARKINGS, TRANSVERSE	00867.00	PIPE - POLYPROPYLENE	02415.40	SIGN SHEETING, WORKZONE ROLL-UP	00222.10D
MECHANICAL ANCHOR	00535.10B	PIPE - PVC	02415.50	SIGN SUPPORTS, PORTABLE	00222.11B
MEMBRANE, SPRAY WATERPROOFING	00591.00	PIPE- SOLID WALL POLYETHYLENE	02415.20	SILICA FUME	02030.20
METAKAOLIN	02030.50	PIPE, MASTIC	00445.12	SLAG (GGBFS)	02030.40
MOISTURE RETENTION CHEM FOR SOIL	01040.22	PIPE, POLYMER COATINGS FOR METAL PIPE	02420.20	SMART WORK ZONE SYSTEM VENDOR	00229.10
MPCO AGGREGATE	00556.10B	PIPE-STEEL REINFORCED POLYETHYLENE	02415.30	SOIL BIO AMENDMENT	01040.17
MULTI - LAYER POLY. CON. OVERLAY	00556.10A	PLASTIC DRUMS, TEMPORARY	00224.13	SOIL STERILIZATION	01040.21

OREGON DEPARTMENT OF TRANSPORTATION

"QPL" INDEX BY CATEGORY TO GET SPECIFICATION NUMBERS

CATEGORY	SPEC#
STORMWATER CONTROL FACILITIES	01070.03
STRUCTURAL STEEL CAULKING	00594.12
STRUCTURAL STEEL COATINGS	00594.10
SYNTHETIC FIBER, MACRO, MICRO, BLEND	02045.00
SYNTHETIC SLURRY	00512.14
TAPE, NON-REFLECTIVE	00225.11
TAPE, TEMPORARY	00225.11
TEMPORARY BARRIER	00226.11A
TEMPORARY WALKS	00228.14
TIMBER COATING	02210.20
TRAFFIC SIGNAL, PORTABLE	00227.13
TRANSVERSE RUMBLE STRIPS, TEMP.	00225.14
WATERPROOFING - CAP	00597.11
WOOD PRESERVATIVE, FIELD	02190.30

Traffic Control Devices Notice (1-2021)

The American Association of State Highway and Transportation Officials (AASHTO) recently published the *Manual for Assessing Safety Hardware* (MASH). MASH is an update to and supersedes NCHRP Report 350.

Requirements in Section 1408 of SAFETEA-LU stated that "The Secretary, in cooperation with the Association [i.e., AASHTO], shall publish updated guidance regarding the conditions under which States, when choosing to improve or replace highway features on the NHS, should improve or replace such features ...". The AASHTO/FHWA Implementation Plan was developed to satisfy that requirement.

Category 1: Plastic Tubular Markers, Plastic Barrels. ODOT Link for Self-Certification form: [Click Here](#)

Category 2: Portable Sign Supports, Tripod Mounted AFAD's, Type 3 Barricades, etc.

Category 3: Impact Attenuators, Guardrail, etc.

Category 4: Trailer Mounted: Sequential Arrows, Message Boards, AFAD's, Flagger Station Lighting, Radar Speed (Trailers). etc.

It is the responsibility of the Contractor to ensure they use a product that complies with the appropriate requirements.

FHWA Office of Safety: <https://safety.fhwa.dot.gov/>

Countermeasures that Reduce Crash Severity:
https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/

NCHRP Report 350: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_350-a.pdf

MASH: https://bookstore.transportation.org/item_details.aspx?ID=2707

FHWA Work zone Letter WZ-161:
http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/listing.cfm?code=workzone

Erosion Control

<u>Category</u>	<u>Sub Category</u>	<u>Section</u>
<u>Erosion Prevention Materials</u>		
	Matting – Slope	00280.14e
	Type A - Slopes 1V:3H or flatter - Clay Soil	
	Type B - Slopes 1V:3H or flatter - Sandy Soil	
	Type C - Slopes steeper than 1V:3H - Clay Soil	
	Type D - Slopes steeper than 1V:3H - Sandy Soil	
	Matting – Flexible Channel Liner	00280.14e
	Type E - Shear Stress Range	0 -2 lbs./ft ²
	Type F - Shear Stress Range	0 -4 lbs./ft ²
	Type G - Shear Stress Range	0 -6 lbs./ft ²
	Type H - Shear Stress Range	0 -8 lbs./ft ²
<u>Runoff Control Materials</u>		
	Check Dam	
	Type 5 – Prefabricated System	00280.15a
	Compost Filter Sock	
	Filter Sock Material	00280.15f (1)
<u>Sediment Control Materials</u>		
	Inlet Protection	
	Type 3 – Prefabricated Filter Inserts	00280.16d
	Sediment Barrier	
	Type 7 – Prefabricated Barrier System	00280.16e
	Sediment Mat	00280.16f

Erosion Control

<u>Category</u>	<u>Sub Category</u>	<u>Section</u>
<u>Sediment Control Materials Cont.</u>	Flocculant	00280.16k
<u>Hydromulch</u>		01030.15a
<u>Tackifier</u>	Liquid Stabilizer Emulsion Dry Powder Tackifier	01030.16
<u>Moisture Retention Chemicals</u>		01040.22b
<u>Miscellaneous Items</u>		01040.23

Pavement Markings (1 of 2) (Rev 7-19)

Longitudinal Durable Pavement Markings Section 00865.00

<p><u>Category</u> Method (A) Extruded</p>	<p><u>Applications</u> (S) Surface (P) Profile, 120 Mils w/ 1/2" bumps (G) Grooved (NP) Non-Profile</p>	<p><u>Material</u> (1) Methyl Methacrylate (MMA) (2) Thermoplastic</p>
<p><u>Category</u> Method (B) Sprayed</p>	<p><u>Applications</u> (S) Surface (P) Profile, 120 Mils w/ 1/2" bumps (G) Grooved (NP) Non-Profile</p>	<p><u>Material</u> (1) Methyl Methacrylate (MMA) (2) Thermoplastic</p>
<p><u>Category</u> Method (C) Tape</p>	<p><u>Applications</u> Pavement Marking Tape – Rolled-In Non-Patterned Pavement Marking Tape – Rolled-In Patterned Pavement Marking Tape – Grooved Non-Patterned Pavement Marking Tape – Grooved Patterned Pavement Marking Tape – Rolled-In Patterned Wet Weather Pavement Marking Tape – Grooved Patterned Wet Weather</p>	
<p><u>Category</u> Method (D) Wet Weather</p>	<p><u>Applications</u> (S) Surface (P) Profile, 120 Mils w/ 1/2" bumps (G) Grooved (NP) Non-Profile</p>	<p><u>Material</u> (1) Methyl Methacrylate (MMA) (2) Thermoplastic</p>

Pavement Markings (2 of 2)

Longitudinal High Performance Pavement Markings 00866.00

<p><u>Category</u> Method 1 - Extruded</p>	<p><u>Applications</u> (S) Surface (G) Grooved</p>	<p><u>Material</u></p>
<p>Method 2 – Spray</p>	<p><u>Applications</u> (S) Surface (G) Grooved</p>	<p><u>Material</u> Plural Component Hi-Build Paint Plural Component Wet Weather Hi-Build Paint Wet Weather</p>

Transverse Durable Pavement Markings 00867.00

<p><u>Category</u> Type A Type B Type B-HS</p>	<p><u>Applications & Material</u> Liquid Hot Poured Thermoplastic with intermixed and top-dressed beads, 120 Mills Preformed Fused Thermoplastic with intermixed beads, 125 Mills Preformed Fused Thermoplastic with intermixed beads, 125 Mills (HS= Hi Skid Resistance)</p>
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**ODOT CONSTRUCTION / MATERIALS SECTION
 QUALIFIED PRODUCTS LIST
 APPROVED LIST - NO SAMPLES OR TESTS REQUIRED*
 QUALIFIED LIST - ADDITIONAL REQUIREMENTS**
 JANUARY 2021 (AMENDED MARCH 8, 2021)**

<u>STANDARD SPEC #</u>	<u>CATEGORY</u>	<u>PRODUCT NAME</u>	<u>LOCAL REPRESENTATIVE AND/OR MANUFACTURER</u>	<u>EFFECTIVE DATE</u>	<u>PRODUCT NUMBER</u>	<u>LIST</u>	<u>REMARKS</u>
00221.13	FENCING, WORKZONE DELINEATION	KC BARRICADE FENCE	KC WHOLESALE CONSTRUCTION PROD 206/850-8672	03/10/11	1486	A	ORANGE SAFETY / SNOW FENCE.
00221.13	FENCING, WORKZONE DELINEATION	PERIMETER PLUS X05650-001	CONWED PLASTICS 612/623-1700 GEO TK 888/708-8835	03/10/11	3147	A	
00221.13	FENCING, WORKZONE DELINEATION	PERIMETER PLUS X05650-002	CONWED PLASTICS 612/623-1700 GEO TK 888/708-8835	03/10/11	3306	A	
00221.13	FENCING, WORKZONE DELINEATION	PROTEX FENCE - SF2048L-12P	NORPLEX 253/735-3431 ACF WEST 800/878-5115	03/10/11	4324	A	
00221.13	FENCING, WORKZONE DELINEATION	SAF-T-SNO	TENAX CORPORATION 800/874-7437 ACF WEST 800/878-5115 410/522-7000	04/12/07	3432	A	MEETS NEW SPECS.
00221.13	FENCING, WORKZONE DELINEATION	TENAX/ALPI SAFETY FENCE	TENAX CORPORATION 800/874-7437 DAVE WRIGHT 503/232-3480 WHITE CAP 503/287-4151 KODIAK SUPPLY 800/332-7452	12/14/06	22	A	PLASTIC FENCE. MUST HAVE ADEQUATE SUPPORTS. 410/522-7000
00221.13	FENCING, WORKZONE DELINEATION	WARNING BARRIER FENCE # 14983	MUTUAL INDUSTRIES 800/523-0888 215/927-6000	07/12/07	3441	A	
00222.10B	TEMPORARY SIGNS TYPE	3-M SERIES 3924S ASTM D4956 TYPE VII & X	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	11/09/06	3236	A	FLUORESCENT ORANGE
00222.10B	TEMPORARY SIGNS TYPE	3-M SERIES 3954 ASTM D4956 TYPE IX	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	12/09/04	2856	A	FLUORESCENT ORANGE

*LIST 'A' = APPROVED. MAY BE USED WITHOUT SAMPLES, TESTING, OR QUALITY COMPLIANCE CERTIFICATIONS. MAY NEED A FIELD INSPECTION REPORT.
 **LIST 'Q' = QUALIFIED. USE WITH SAMPLING, TESTING, & OR QUALITY COMPLIANCE CERTIFICATIONS AS NEEDED. NEEDS A FIELD INSPECTIONS REPORT. CHECK SPECS AND NFTMAG.
 LIST PUBLISHED BY: ODOT MATERIALS LAB; 800 AIRPORT RD SE; SALEM, OR 97301-4798; (503) 986-3059. PLEASE REPORT ANY PROBLEMS USING THESE PRODUCTS.

**ODOT CONSTRUCTION / MATERIALS SECTION
 QUALIFIED PRODUCTS LIST
 APPROVED LIST - NO SAMPLES OR TESTS REQUIRED*
 QUALIFIED LIST - ADDITIONAL REQUIREMENTS**
 JANUARY 2021 (AMENDED MARCH 8, 2021)**

<u>STANDARD SPEC #</u>	<u>CATEGORY</u>	<u>PRODUCT NAME</u>	<u>LOCAL REPRESENTATIVE AND/OR MANUFACTURER</u>	<u>EFFECTIVE DATE</u>	<u>PRODUCT NUMBER</u>	<u>LIST</u>	<u>REMARKS</u>
00222.10B	TEMPORARY SIGNS TYPE	AVERY DENNISON W-7514 ASTM D4956 TYPE VIII	AVERY DENNISON 800/327-5917	02/10/05	2855	A	FLUORESCENT ORANGE
00222.10B	TEMPORARY SIGNS TYPE	OMNIBRITE T-11500 SERIES ASTM TYPE XI	AVERY DENNISON 240/925-6891	07/27/12	4502	A	WHITE, FLUO YELLOW FLUO YELLOW GREEN FOR USE IF ALLOWED. FLUO ORANGE IS ODOT STANDARD
00222.10B	TEMPORARY SIGNS TYPE	OMNIBRITE W-11514 FLUO ORANGE ASTM TYPE XI	AVERY DENNISON 240/925-6891	07/27/12	4501	A	FLUORSECENT ORANGE
00222.10B	TEMPORARY SIGNS TYPE	ORALITE HI PRISMATIC SERIES 5930 CONSTRUCTION WORK ZONE	ORAFOL 860/676-7100 BROOK JERZYK 860/676-7100	04/01/13	4548	A	WAS NAMED REFLEXITE
00222.10D	ROLL-UP SIGNS	3-M DIAMOND GRADE FLEXIBLE ROLL-UP SERIES RS641 FLUORESCENT	3-M COMPANY TSSD 800/553-1380	04/13/16	4949	A	FLUORESCENT ORANGE
00222.10D	ROLL-UP SIGNS	3-M RS24 ROLLUP SHEETING	3-M COMPANY TSSD 800/553-1380	11/16/00	1705	A	FLUORESCENT ORANGE
00222.10D	ROLL-UP SIGNS	3-M RS33 ROLLUP SHEETING	3-M COMPANY TSSD 800/553-1380	11/10/05	2950	A	ODOT INCIDENCE MANAGEMENT ONLY.
00222.10D	ROLL-UP SIGNS	AVERY DENNISON OMNIBRITE WU-7000 SERIES	AVERY DENNISON REFLECTIVE SOLUTIONS 847/627-3111 LARRY NATHAN 440/463-3318	06/28/19	5202	A	FLUORESCENT ORANGE WHITE
00222.10D	ROLL-UP SIGNS	ORALITE FLUORESCENT PINK SUPERBRIGHT ROLL-UP SIGNS	ORAFOL 860/676-7100 BROOK JERZYK 860/676-7100	06/11/09	3736	A	FOR INCIDENT RESPONSE CREWS ONLY. WAS NAMED REFLEXITE FLUORESCENT PINK SUPERBRIGHT

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00222.10D	ROLL-UP SIGNS	ORALITE HIGH PERFORMANCE ROLL-UP SIGN UTILIZING MARATHON FLUORESCENCE	ORAFOL 860/676-7100 BROOK JERZYK 860/676-7100	11/16/00	1821	A	FLUORESCENT ORANGE WAS NAMED REFLEXITE MARATHON
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	COMPACT FLEXING STAND C-102	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967	12/13/01	2183	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS ONLY. TESTED AT 18" ABOVE THE GROUND
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	COMPACT FLEXING STAND C-202	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967	12/13/01	2182	A	PASSED NCHRP 350 CAT 2 TESTING ROLL-UP SIGNS ONLY. 18" A.G. SAME AS C-942. BUT HAS GALV STEEL FRAME W/FIBERGLASS SPRNG
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	DF-3000P	DICKE SAFETY PACIFIC SAFETY SUPPLY DBA DICKE SAFETY 800-333-5641 MIKE BURKE 206/818-9277	03/14/02	2219	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS. MEETS OUR SPECS TESTED AT 18.5" ABOVE GROUND
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	DL-1003W	DICKE SAFETY PACIFIC SAFETY SUPPLY DBA DICKE SAFETY 800-333-5641 MIKE BURKE 206/818-9277	04/10/03	2794	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS. MEETS OUR SPECS. TESTED AT 14" ABOVE THE GROUND
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	INTERSTATE SIGN STAND X-551	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967 FORESS SIGN CO 541/928-5858	12/13/01	1817	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS ONLY. BASE IS MODEL X-550 AND ROLLUP SIGN OPTION IS X-551. 18" ABOVE GRN
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	LITTLE BUSTER	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	12/13/01	2251	A	TESTED AT 12" ABOVE PAVEMENT MET NCHRP 350 CAT 2
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS300	PLASTICADE 800/772-0355	05/13/20	5237	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS300A	PLASTICADE 800/772-0355	05/13/20	5238	A	

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00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS310	PLASTICADE 800/772-0355	05/13/20	5239	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS310A	PLASTICADE 800/772-0355	05/13/20	5240	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS340A	PLASTICADE 800/772-0355	05/13/20	5241	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS410A	PLASTICADE 800/772-0355	05/13/20	5242	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS420A	PLASTICADE 800/772-0355	05/13/20	5243	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PLASTICADE SS520A	PLASTICADE 800/772-0355	05/13/20	5244	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	SIGN-UP MS-2000X/I MINI STAND	SIGN-UP CORPORATION 800/659-6466	02/08/01	2285	A	TESTED AT 25" TO BOTTOM OF SIGN MET NCHRP 350 CAT 2
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	SIGN-UP X-CELL SIGN STAND	SIGN-UP CORPORATION 800/659-6466	06/08/00	2286	A	MFG SHOWED CRASHWORTHINESS AND WIND STABILITY. TESTED AT 18" TO BOTTOM OF SIGN.
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	TRAFFIX DEVICES SINGLE SPRING MODEL #22000 SPUH	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	03/14/02	2528	A	CRASH TESTED, AND MET OUR OTHER SPECS. TESTED AT 18" ABOVE THE GROUND

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00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	TRAFFIX STAND	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	12/12/01	2311	A	TESTED AT 12" ABOVE THE PAVEMENT SURFACE. MET NCHRP 350 CAT 2
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	UF2000	DICKE SAFETY PACIFIC SAFETY SUPPLY DBA DICKE SAFETY 800-333-5641 MIKE BURKE 206/818-9277	04/10/03	2795	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS. MEETS OUR SPECS. TESTED AT 12" ABOVE THE GROUND
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	WINDMASTER MODEL 4884KET	MDI 800/521-6776 DAVID HILLSTROM 248/553-1900 LANNIE HYDE 916/645-8686	03/23/15	4860	A	
00222.11B	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	WINDMASTER MODEL 5012SSAL PT	MDI 800/521-6776 DAVID HILLSTROM 248/553-1900 LANNIE HYDE 916/645-8686	03/23/15	4859	A	
00222.11E	WORK ZONE TRAFFIC CONTROL	SQUARE TUBE SIGN SUPPORTS TEMPORARY		07/30/12		A	SEE SECTION 00930.00
00222.12	SIGN COVERS	RSC-59825-BNR1	MDI WORLDWIDE 800/521-6776	12/06/17	5095	A	COVERS SIGN COMPLETELY NOT APPROVED FOR PERMANENT APPLICATIONS. MATTE SIDE TO FACE TRAFFIC
00222.12	SIGN COVERS	SIGN SOCKS	SIGN SOCKS INC. 888/765-4769 TODD PETREY 541/297-8655	02/10/00	1966	A	COVERS SIGN COMPLETELY NOT APPROVED FOR PERMANENT APPLICATIONS. POLYPROPYLENE
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C"	ARROWMASTER PROLINE 25 LIGHT	HILL & SMITH 740/816-8077 TRAFFIC SAFETY SUPPLY CO. 503/830-2048	09/12/12	4522	A	2012 DEMO
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C"	ADDCO AB-25	ADDCO 651/488-8600 DAVID BERKMAN 206/369-5683 TRAFFIC SAFETY 800/547-8518	07/09/09	3665	A	PAPERWORK LOOKS OK, DEMO WAS OKAY ON 5-20-09.

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00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C".	ARO-LITE CURVE - 2165652	NATIONAL SIGNAL 888/994-0300	07/09/09	3867	A	OFFICAL DEMO: 5/20/09 - OK.
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C".	VER-MAC ST4825	VER-MAC 888/488-7446	08/11/05	3000	A	PASSED DEMO 2011
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C".	WANCO WTSP 75-LSAC-08	WANCO, INC. 800/972-0755	07/09/09	3860	A	OFFICIAL DEMO: 5-20-09 OK.
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C".	WECO SOLAR ARROW BOARD	WANCO, INC. 800/972-0755	09/12/12	4521	A	2012 DEMO
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". HALOGENILED. SOLAR POWER	ECLIPSE 2200/SE APF	ALLMAND BROTHERS 800/562-1373 WRIGHT-LANSDON CO 503/659-7635	01/13/00	1949	A	BOTH LED AND HALOGEN NEED TO BE 590 NM (AMBER).
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED - SOLAR	ARO-LITE 100 WATT 25-M-100	NATIONAL SIGNAL 888/994-0300 WES YOCKEY 503/324-7213	11/08/01	2246	A	LED - SOLAR POWER. 25 LIGHT VERSION. DEMO TEST-OK 10/17/01 MODEL # IMPORTANT TO VERIFY. PRODUCTION CEASED: 2/27/09
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	AMIDA DLSE 25 LA	TEREX AMIDA 803/324-3011 FRED UNSWORTH 707/996-9650 FORESS SIGNS 541/928-5858	09/14/00	2304	A	OK FOR LEGIBILITY AT 1 MILE. PRODUCTION CEASED: PRIOR TO 3/30/11.
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	ARROWMASTER IV MODEL# WAAW 25SB	HILL & SMITH 740/816-8077 TRAFFIC SAFETY SUPPLY CO. 503/830-2048	06/11/98	1571	A	LED - SOLAR POWER. 25 LIGHT VERSION. PRODUCTION CEASED: PRIOR TO 3/30/11
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	SILENT SENTINEL	SOLAR TECHNOLOGY 800/475-5442 JOHN HAYES 484/223-4974 SALES 610/391-8603 TECH SUPPORT: 610/391-8600	01/14/93	932	A	SOLAR POWERED ARROWBOARD. IT WILL DO A CHEVRON AND APPEARS TO BE OK FOR OREGONS CLIMATE. LED'S ADDED 1/97.

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00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	SUN-UP SOLAR ARROW PANEL MODEL 100	NATIONAL SIGNAL- 888/994-0300 888/994-0300 DIST: CANTEL OF MEDFORD JOHN HUGHES, 541/773-2765	12/10/98	1801	A	UNIT IS SOLAR POWERED ELECTRONIC FLASHING-ARROW. PRODUCTION CEASED: 7/0/09.
00222.15A	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	WANCO WTSP110-LSAC	WANCO, INC. 800/972-0755	11/16/00	2331	A	FIELD DEMO: 10/24/00 - OK FOR LEGIBILITY AT 1 MILE. LED LENS.
00222.15B	PCMS /PVMS - TRAILER	SOLAR MESSAGE CENTER SMC 1000ST	HILL & SMITH 740/816-8077 TRAFFIC SAFETY SUPPLY CO. 503/830-2048	09/12/12	4517	A	2012 DEMO
00222.15B	PCMS /PVMS - TRAILER 3 LINE 8 CHARACTERS LED	CMS T-331	AMERICAN SIGNAL 770/448-6650	09/12/12	4515	A	2012 DEMO
00222.15B	PCMS /PVMS - TRAILER 3 LINE DISPLAY	WTLMB (A)	WANCO, INC. 800/972-0755	09/12/12	4519	A	2012 DEMO
00222.15B	PCMS /PVMS - TRAILER FULL MATRIX LED	CMS T-333	AMERICAN SIGNAL 770/448-6650	09/12/12	4516	A	2012 DEMO
00222.15B	PCMS /PVMS - TRAILER SOLAR - 3 LED'S PER PIXEL	SILENT MESSENGER MB-1548-OR	SOLAR TECHNOLOGY 800/475-5442 JOHN HAYES 484/223-4974 SALES 610/391-8603 TECH SUPPORT: 610/391-8600	01/12/06	3217	A	PASSED 10/6/05 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 3 LED'S PER PIXEL	SILENT MESSENGER MB-3048-OR	SOLAR TECHNOLOGY 800/475-5442 JOHN HAYES 484/223-4974 SALES 610/391-8603 TECH SUPPORT: 610/391-8600	10/10/02	2655	A	PASSED 9/24/02 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 3 LED'S PER PIXEL	SILENT MESSENGER MB-4048-OR	SOLAR TECHNOLOGY 800/475-5442 JOHN HAYES 484/223-4974 SALES 610/391-8603 TECH SUPPORT: 610/391-8600	01/12/06	2190	A	PASSED 3/14/00 DEMO. DID NOT ATTEND DEMO 9/24/02. PASSED 10/6/05 DEMO. OKAY TO USE.

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00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	ADDCO DH-1000-ALS LED-ODOT	ADDCO 651/488-8600 DAVID BERKMAN 206/369-5663 TRAFFIC SAFETY 800/547-8518	10/10/02	1649	A	PASSED 9/24/02 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	CMS T-331-1B W/AIMSTAR	AMERICAN SIGNAL 770/448-6650	10/10/02	2665	A	PASSED 9/24/02 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	CMS T-333-1C W/AIMSTAR	AMERICAN SIGNAL 770/448-6650	10/10/02	2666	A	PASSED 9/24/02 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	SUNRAY 390 - 2165033	NATIONAL SIGNAL 888/994-0300	12/10/09	3227	A	PASSED 10/6/05 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	SUNRAY SOLAR 380 - 2165650	NATIONAL SIGNAL 888/994-0300	12/10/09	2663	A	PASSED 9/24/02 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	VER-MAC PCMS 1210-22	VER-MAC 888/488-7446	01/12/06	3222	A	PASSED DEMO ON 10/6/05.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	VER-MAC PCMS 1210OR	VER-MAC 888/488-7446	06/10/04	2983	A	IMPROVED VERSION. PASSED DEMO PERFORMED BY TRAFFIC SECTION. PLACED ON ODOT BID #9223 4/04. MATCH MODEL # EXACTLY!
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	VER-MAC PCMS 1210QS	VER-MAC 888/488-7446	01/12/06	3174	A	PASSED DEMO ON 10/6/05.
00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	WANCO WTMMB-SLL (A)-08	WANCO, INC. 800/972-0755	07/09/09	3861	A	OFFICIAL DEMO: 5-20-09 OK.

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00222.15B	PCMS /PVMS - TRAILER SOLAR - 4 LED'S PER PIXEL	WTLMB-S-LL(A)	WANCO, INC. 800/972-0755	10/10/02	2869	A	FAILED 3/00 DEMO, BUT PASSED 9/24/02 DEMO. OKAY TO USE.
00222.15B	PCMS /PVMS - TRAILER SOLAR - HYBRID W/2 LED'S	ADDCO DH-1000-SLD LED-ODOT	ADDCO 651/488-8600 DAVID BERKMAN 206/369-5683 TRAFFIC SAFETY 800/547-8518	10/10/02	1180	A	FLUORESCENT FLIP DISCS W/LEDS. FAILED EARIER DEMOS, BUT PASSED THE 9-24-02 DEMO.
00222.15B	PCMS /PVMS - TRAILER SOLAR-4 LED'S PER PIXEL	VER-MAC PCMS 1210 PRO SERIES G3	VER-MAC 888/488-7446 HIGHWAY SPECIALTIES 503/390-1113	04/30/20	5256	A	PASSED DEMO ON 4/16/20 ON PROJECT SITE
00222.15B	PCMS /PVMS - TRUCK 2 LINES-4 LED'S PER PIXEL	ADDCO 2 LINE #M-4X2H	ADDCO 651/488-8600 DAVID BERKMAN 206/369-5683	09/09/10	3862	A	FAILED 5/20/09 DEMO, BUT AFTER A CLOSER LOOK IT WAS APPROVED.
00222.15B	PCMS /PVMS - TRUCK 2 LINES-4 LED'S PER PIXEL	LITEREADER 1020A-4	LITESYS INC. / INTELICOM, INC. 406/388-9317	10/10/02	2263	A	PASSED 9/24/02 DEMO.
00222.15B	PCMS /PVMS - TRUCK 2 LINES-4 LED'S PER PIXEL	LITEREADER 1020F-4W-1	LITESYS INC. / INTELICOM, INC. 406/388-9317	04/13/06	3219	A	PASSED 3/23/06 DEMO. IT IS A MODIFIED VERSION OF 1020F-4W.
00222.15B	PCMS /PVMS - TRUCK 2 LINES-4 LED'S PER PIXEL	TM-248	WANCO, INC. 800/972-0755	10/10/02	2873	A	PASSED 9/24/02 DEMO. PRODUCTION CEASED. PRIOR TO 3/30/11.
00222.15B	PCMS /PVMS - TRUCK 2 LINES-4 LED'S PER PIXEL	WMRTP-2	WANCO, INC. 800/972-0755	10/10/02	2868	A	PASSED 9/24/02 DEMO. PRODUCT LINE DISCONTINUED IN 2004.
00222.15B	PCMS /PVMS - TRUCK 3 LINES-3 LED'S PER PIXEL	SILENT MESSENGER MB-722-448	SOLAR TECHNOLOGY 800/475-5442 JOHN HAYES 484/223-4974 SALES 610/391-8603 TECH SUPPORT: 610/391-8600	10/10/02	2856	A	PASSED 9/24/02 DEMO.

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00222.15B	PCMS /PVMS - TRUCK 3 LINES-4 LED'S PER PIXEL	ADDCO 3 LINE #M-6X2V	ADDCO 651/488-8600 DAVID BERKMAN 206/369-5863	07/09/09	3863	A	OFFICIAL DEMO 5/20/09- OK.
00222.15B	PCMS /PVMS - TRUCK 3 LINES-4 LED'S PER PIXEL	LITEREADER 1030A-4	LITESYS INC. / INTELICOM, INC. 406/388-9317	10/10/02	2577	A	PASSED 9/24/02 DEMO.
00222.15B	PCMS /PVMS - TRUCK 3 LINES-4 LED'S PER PIXEL	LITEREADER 1030F-4W-1 ID# 3221A	LITESYS INC. / INTELICOM, INC. 406/388-9317	04/09/09	3221	A	PAPERWORK LOOKS OKAY, DEMO ON 3/9/09, MODIFIED VERSION OF 1030F-4W TO CORRECT PROBLEMS.
00222.15B	PCMS TYPE B MINI TRAILER SOLAR-4 LED'S PER PIXEL	VER-MAC PCMS 3812 PRO SERIES	VER-MAC 888/488-7446 HIGHWAY SPECIALTIES 503/390-1113	05/14/20	5213	A	PASSED DEMO ON 5/14/20
00222.15B	PCMS TYPE B MINI TRAILER SOLAR-4 LED'S PER PIXEL	WANCO MINI MATRIX MESSAGE BOARD	WANCO, INC. 800/972-0755 HIGHWAY SPECIALTIES 503/390-1113	05/28/20	5247	A	PASSED DEMO ON 5/28/20
00222.15B	PCMS/PVMS - TRAILER TYPE B, MINI PCMS SOLAR - 4 LED'S PER PIXEL	SMC 4000	HILL & SMITH INC. 740/816-8077 TRAFFIC SAFETY SUPPLY CO. 503/830-2048	06/18/19	5154	A	DEMO 6/18/19
00222.15C	RADAR SPEED TRAILER TYPE II	FULL MATRIX DRIVER FEEDBACK TRAILER	FORTEL TRAFFIC 714/701-9800 CORAL SALES 503/655-6351	06/16/16	4942	A	DEMO 6/16/16
00222.15C	RADAR SPEED TRAILER TYPE II	PRODIGY 33L PACESETTER	MONITOR SYSTEMS 888/819-7023 4S SIGN, LLC 541/928-5858	02/13/14	4700	A	DEMO 2/13/14
00222.15C	RADAR SPEED TRAILER TYPE II	VER-MAC SP-3248V PRO SERIES	VER-MAC 888/972-0755	09/10/20	5283	A	DEMO 9/10/20

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00222.15C	RADAR SPEED TRAILER TYPE II	WANCO FOLDING FRAME RADAR SPEED TRAILER WSDT3-F360DOT	WANCO, INC. 800/972-0755 JAY RUEGNER 208/484-5324 HIGHWAY SPECIALTIES 503/390-1113	08/14/20	5273	A	DEMO 8/14/20
00223.21	FLAGGER EQUIPMENT STOP/SLOW PADDLE	BLINKER PADDLE	TAPCO 800/236-0112 TRAFFIC SAFETY 800/547-8518	08/14/05	3008	A	HAS LIGHTS AROUND THE PERIMETER ON BOTH SIDES.
00223.21	STOP/SLOW PADDLE STOP/SLOW PADDLE	TRAFF-ALERT 18 (TA18AX6SP)	SAFECO 480/290-5220	04/08/10	4099	A	POLE MOUNTED.
00223.21	STOP/SLOW PADDLE STOP/SLOW PADDLE	TRAFF-ALERT 18 (TA18AXTP)	SAFECO 480/290-5220	04/08/10	4097	A	HAND HELD UNIT.
00223.21	STOP/SLOW PADDLE STOP/SLOW PADDLE EMERGENCY USE ONLY	FAN-A-SIGN MODEL MR18	SPORTNIKS, INC. 505/508-1901	04/11/02	2471	A	MARATHON SHEETING. MUST HAVE SNAP ON HANDLE TO BE SEMI-RIGID. FOR EMERGENCY USE ONLY.
00223.21	STOP/SLOW PADDLE STOP/SLOW PADDLE EMERGENCY USE ONLY	STOP SLOW PADDLE DG, ROLL-UP	PACIFIC SAFETY SUPPLY RYAN SCHURR 800/344-5641	04/13/00	1922	A	USES 3-M DIAMOND GRADE SHEETING. PASSED RETRO TESTS. FOR EMERGENCY USE ONLY. DURABILITY MAY BE A QUESTION.
00223.22	FLAGGER STATION LIGHTING TEMPORARY	FLEX 4000 WATT	AIRSTAR SPACE LIGHTING 800/217-9001 X3	12/21/12	4584	A	ONLY TWO METAL HALIDE LIGHTS ENERGIZED FOR FLAGGER LIGHTING
00223.22	FLAGGER STATION LIGHTING TEMPORARY	GLOBUG - MODEL GB2000 LIGHT TOWER	MULTIQUIP 800/421-1244 CESSCO 800/882-4959	12/14/15	4854	A	ONLY THE BALLOON LIGHT WILL BE ENERGIZED FOR FLAGGER LIGHTING
00223.22	FLAGGER STATION LIGHTING TEMPORARY	MAGNUM MLT3060DOT	MAGNUM PRODUCTS 800/926-9768 UNITED RENTALS 920/279-6366	08/13/09	3933	A	TRAILER MOUNTED. HAS BOTH FLAGGER & CONSTRUCTION LAMPS. THE HI POWER LAMPS ARE NOT FOR FLAGGER STATIONS.

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00223.22	FLAGGER STATION LIGHTING TEMPORARY	MAGNUM ML T4060DOT	MAGNUM PRODUCTS 800/926-9788 UNITED RENTALS 920/279-6366	08/13/09	3934	A	TRAILER MOUNTED. HAS BOTH FLAGGER & CONSTRUCTION LAMPS. THE HI POWER LAMPS ARE NOT FOR FLAGGER STATIONS.
00223.22	FLAGGER STATION LIGHTING TEMPORARY	MOON-GLO LIGHT TOWER CONVERSION	MOON-GLO WORK LIGHT Tom Schuh 503/931-3650	12/21/12	4585	A	ONLY THE BALLOON LIGHT WILL BE ENERGIZED FOR FLAGGER LIGHTING
00223.22	FLAGGER STATION LIGHTING TEMPORARY	MOONGLO LIGHT TOWER	MOON-GLO WORK LIGHT TOM SCHUH 503/931-3650	06/14/18	5126	A	TRAILERS MOUNTED TWO 31200 LUMEN 5700K LED LAMPS. ONE 115000 LUMEN 3700K METAL HALIDE LAMP LAMP HEIGHT NOT TO EXCEED 16 FEET
00223.22	FLAGGER STATION LIGHTING TEMPORARY	MOON-GLO WORK LIGHT 1000	MOON-GLO WORK LIGHT TOM SCHUH 503/931-3650	10/14/10	4212	A	TRAILERS RECONDITIONED TO MEET OUR SPEC. AT HIS FACILITY. 1000 WATT BT37 METAL HALIDE LAMPS.
00223.22	FLAGGER STATION LIGHTING TEMPORARY	MOON-GLO WORK LIGHT 2000	MOON-GLO WORK LIGHT TOM SCHUH 503/931-3650	10/14/10	4213	A	TRAILERS RECONDITIONED TO MEET OUR SPEC. AT HIS FACILITY. 1000 WATT BT37 METAL HALIDE LAMPS.
00223.22	FLAGGER STATION LIGHTING TEMPORARY	TUBELIGHT LIGHT TOWER	MAGNUM PRODUCTS 800/926-9788 UNITED RENTALS 920/279-6366	01/21/14	4673	A	TRAILER MOUNTED. HAS DIFFUSE LIGHT FOR FLAGGER & CONSTRUCTION LAMPS. CONSTRUCTION LAMPS ARE NOT FOR FLAGGER STATIONS.
00223.22	FLAGGER STATION LIGHTING TEMPORARY MASH (2009) TL-3	AIRSTAR SIROCCO 400 LED FLAT-FOOTED TRIPOD MOUNTING SYSTEM	AIRSTAR 407/851-7830 TSS 503/235-8531 HS LLC 503/390-1113	11/19/20	5308	A	TRIPOD MOUNTED. (HEAVY 3# FLAT-FOOTED) 400 LED LIGHT HEAD, P500A POLE 60-50-027 HEAVY BASE BOTTOM OF LIGHT MIN 15' ABOVE GROUND
00223.22	FLAGGER STATION LIGHTING TEMPORARY MASH (2009) TL-3	AIRSTAR SPACE GLOBE LIGHTING STAND FLAT-FOOTED TRIPOD MOUNTING SYSTEM	AIRSTAR 407/851-7830 TSS 503/235-8531 HS LLC 503/390-1113	10/22/16	4916	A	TRIPOD MOUNTED. (HEAVY 3# FLAT-FOOTED) BOTTOM OF LIGHT MIN 15' ABOVE GROUND
00223.23	AFAD - RED & YELLOW LENS	AUTOFLAGGER AF-54	SAFETY TECHNOLOGIES, INC 651/388-5030	04/02/18	5038	A	REMOTE CONTROL FLAGGER DEVICE. HAS ARM THAT COMES DOWN. 2 LITE SIGNAL HEAD. RED/YELLOW TRAILER MOUNTED/2 Trailer Tow

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00223.23	AFAD - RED & YELLOW LENS	AUTOMATED FLAGGER AF-100	SYNERGY TECHNOLOGY, LLC 704/849-7891 Far West Inc. 503/430-1407	08/20/12	4512	A	REMOTE CONTROL FLAGGER DEVICE. HAS ARM THAT COMES DOWN. 2 LITE SIGNAL HEAD. RED/YELLOW TRAILER MOUNTED/2 Trailer Tow
00223.23	AFAD - RED & YELLOW LENS	INTELLISTROBE W1-AG	INTELLISTROBE 417/883-7720	02/12/09	3125	A	TRIPOD MOUNTED UNIT. HAS ARM THAT COMES DOWN. 2 LITE SIGNAL HEAD. RED/YELLOW
00223.23	AFAD - RED & YELLOW LENS	INTELLISTROBE W1-AG/TM	INTELLISTROBE 417/883-7720	02/12/09	3362	A	REMOTE CONTROL FLAGGER DEVICE. HAS ARM THAT COMES DOWN. 2 LITE SIGNAL HEAD. RED/YELLOW TRAILER MOUNTED.
00223.23	AFAD - RED & YELLOW LENS	RC FLAGMAN RCF 2.4	NORTH AMERICA TRAFFIC 877/352-4626	02/12/09	2984	A	REMOTE CONTROL FLAGGER DEVICE. HAS ARM THAT COMES DOWN. 2 LITE SIGNAL HEAD. RED/YELLOW TRAILER MOUNTED
00223.23	AFAD - RED & YELLOW LENS VIDEO CAMERAS	GUARDIAN SMARTFLAGGER	SITE 2020 902/209-0566	06/18/19	5187	A	REMOTE CONTROL FLAGGER. HAS AN ARM THAT COMES DOWN SIGN (STOP HERE ON RED R10-6 OR R10-6A) (AREA UNDER VIDEO SURVILLANCE) BK/YEL
00224.10	MARKERS, TUBULAR BLUE TEMPORARY	TD5000-504315B 12 POUND BASE	THREE D TRAFFIC WORKS 877/843-9757	01/11/07	3207	A	BLUE
00224.10	MARKERS, TUBULAR TEMPORARY	ARROWTOP DELINEATOR (28") MODEL LA28 01 2HN-12A	CUSTOM-PAK 563/242-1801 SDI 541/686-9844	02/10/11	4293	A	THIS MODEL MET OUR SPECS. THE FIRST 28" MODEL WAS SHORT. 12 POUND RUBBER BASE.
00224.10	MARKERS, TUBULAR TEMPORARY	ARROWTOP DELINEATOR (42") MODEL LA42 01 2HN-12	CUSTOM-PAK 563/242-1801 SDI 541/686-9844	08/13/09	3900	A	12 POUND BASE.
00224.10	MARKERS, TUBULAR TEMPORARY	BENT TUBULAR MARKER MODEL# D6-5	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	05/01/88	1899	A	

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00224, 10	MARKERS, TUBULAR TEMPORARY	DELINEATOR TUBE DIAMOND TOP	JBC SAFETY 626/271-1980	01/28/15	4803	A	28" & 48" TALL USE 12# BASE
00224, 10	MARKERS, TUBULAR TEMPORARY	DELINEATOR TUBE N-TOP II	JBC SAFETY 626/271-1980	01/28/15	4802	A	28" & 48" TALL USE 12# BASE
00224, 10	MARKERS, TUBULAR TEMPORARY	ECOFLEX RB	HIGHWAY SAFETY PRODUCTS 800/228-1701	01/21/14	4687	A	28", 36" TALL HI SHEETING
00224, 10	MARKERS, TUBULAR TEMPORARY	FLEXI-GUIDE 300 EFX MODEL: 8FG338FLOEFXODOT#1	PEXCO LLC - DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	12/09/10	4214	A	USE EPOXY ADHESIVE, NOT BUNDY. T-SHAPEED 36" FL ORANGE TUBE. USE ORANGE BASE. THE BLACK BASE IS WEAKER.
00224, 10	MARKERS, TUBULAR TEMPORARY	GRABBER TUBE 28"	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	11/14/96	1505	A	4" DIA. NON STACKABLE. TUBULAR.
00224, 10	MARKERS, TUBULAR TEMPORARY	KNOB TOP DELINEATOR POST	HIGHWAY SAFETY PRODUCTS 800/228-1701	01/21/14	4689	A	39", 42" TALL HI SHEETING
00224, 10	MARKERS, TUBULAR TEMPORARY	NAVIGATOR TUBE	PLASTIC SAFETY SYSTEMS 800/662-6338 TRAFFIC SAFETY 800/547-8518	07/13/00	2239	A	TWO PIECE UNIT WITH HANDLE ON TOP.
00224, 10	MARKERS, TUBULAR TEMPORARY	OPEN TOP DELINEATOR POST	HIGHWAY SAFETY PRODUCTS 800/228-1701	01/21/14	4688	A	39", 42" TALL HI SHEETING
00224, 10	MARKERS, TUBULAR TEMPORARY	PLASTICADE OPEN TOP DELINEATOR	PLASTICADE 800/772-0355	06/11/13	4660	A	HI SHEETING

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00224, 10	MARKERS, TUBULAR TEMPORARY	PLASTICADE THE CLAW DELINEATOR	PLASTICADE 800/772-0355	07/10/14	4799	A	
00224, 10	MARKERS, TUBULAR TEMPORARY	SUPERDUCK	CARSONITE INC. 800/648-7916 TRAFFIC SAFETY 800/547-8518	06/08/00	70	A	THE TUBES ARE REPLACEABLE AS IS THE REFLECTORIZED TAPE. CONFIRMED THAT IT MEETS OUR SPECS 6/2000.
00224, 10	MARKERS, TUBULAR TEMPORARY	TD5000-504315 12 POUND BASE	THREE D TRAFFIC WORKS 877/843-9757	01/11/07	3281	A	ORANGE
00224, 10	MARKERS, TUBULAR TEMPORARY	TD5100 RING TOP DELIN. 507436	THREE D TRAFFIC WORKS 877/843-9757	12/14/06	2691	A	
00224, 10	MARKERS, TUBULAR TEMPORARY	TD5200-526859 (BOOMERANG)	THREE D TRAFFIC WORKS 877/843-9757	01/11/07	3011	A	
00224, 10	MARKERS, TUBULAR TEMPORARY	T-TOP DELINEATOR POST MODEL DT7: 28", 36", 39" & 42"	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	11/16/00	2299	A	APPROVED FOR LENGTHS ALLOWED IN THE SPECS.
00224, 10	MARKERS, TUBULAR TEMPORARY	WATCHTOWER DELINEATOR 28" & 48"	PLASTICADE 800/772-0355	06/30/15	4914	A	TYPE III OR HIGHER SHEETING
00224, 10	MARKERS, TUBULAR TEMPORARY 28" & 36" HEIGHT	DURAPOST	SAFE-HIT CORP. 888/323-6374 DAN MCCARTHY 760/295-2699	06/08/00	1182	A	100% URETHANE PLASTIC, PIN AT BASE HOLDS TOP ON. PRODUCT IS 3" DIA.
00224, 10	REFLECTIVE SHEETING-TUBES FOR TUBULAR MARKERS	ORALITE CONFORM-A-LIGHT DELINEATION SHEETING	ORAFOL 860/676-7100 BROOK JERZYK 860/676-7100	12/09/99	1747	A	WAS NAMED REFLEXITE

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00224, 10	REFLECTIVE SHEETING-TUBES FOR TUBULAR MARKERS PRISMATIC	ORALITE RESILIENCE CHANNELIZER	ORAFOL 860/676-7100 BROOK JERZYK 860/676-7100	07/25/12	4510	A	FOR TUBES AND DRUMS WAS REFLEXITE RESILIENT C86 WHITE & FLUORESENT ORANGE
00224, 10	REFLECTIVE SHEETING-TUBES FOR TUBULAR MARKERS PRISMATIC	ORALITE SUPER BRIGHT 5934	ORAFOL 860/676-7100	06/28/19	5204	A	FOR TUBES AND DRUMS WHITE
00224, 10	TRAFFIC SEPARATOR, CURB SURFACE MOUNTED TEMPORARY	FG336 PE TUBE 2 3X9 HI OR FG 300 CURB SYSTEM OR	PEXCO LLC - DAVIDSON TRAFFIC 877/835-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	08/01/11	4440	A	
00224, 10	TRAFFIC SEPARATOR, CURB SURFACE MOUNTED TEMPORARY	FG336 UR TUBE 2 3X9 HI OR FG 300 CURB SYSTEM OR	PEXCO LLC - DAVIDSON TRAFFIC 877/835-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	08/01/11	4441	A	
00224, 10	TRAFFIC SEPARATOR, CURB SURFACE MOUNTED TEMPORARY MASH TL-3	FG336 EFX TUBE 2 3X9 HI OR FG 300 CURB SYSTEM OR	PEXCO LLC - DAVIDSON TRAFFIC 877/835-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	08/01/11	4439	A	
00224, 11	MARKERS, CONICAL TEMPORARY	C-42 6-4 HI WH 1ST-2ND / CB16	SMITH & HILL 740/616-8077 TRAFIC SAFETY SUPPLY COMPANY 800/547-8518	06/10/10	4131	A	42" TALL. 16 POUND BASE.
00224, 11	MARKERS, CONICAL TEMPORARY	C-42 6-4 HI WH 1ST-2ND / CB30	SMITH & HILL 740/616-8077 TRAFIC SAFETY SUPPLY COMPANY 800/547-8518	06/10/10	4132	A	42" TALL. 30 POUND BASE.
00224, 11	MARKERS, CONICAL TEMPORARY	GRABBER	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	06/09/95	1210	A	43" TALL, USE 16# BASE. STACKABLE. HANDLE ON TOP
00224, 11	MARKERS, CONICAL TEMPORARY	GRABBER CONE 28"	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	11/14/96	1507	A	4" DIA. STACKABLE. THIS IS AN APPROVED CONICAL SHAPE. THE HEAVY 16# BASE IS REQ. 28" TALL.

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00224.11	MARKERS, CONICAL TEMPORARY	NAVICADE TRAFFIC CHANNELIZING CONE	PLASTICADE 800/772-0355	07/27/12	4499	A	USE 16# BASE NO LIGHT ATTACHMENT
00224.11	MARKERS, CONICAL TEMPORARY	NAVIGATOR CHANNELIZER	PLASTIC SAFETY SYSTEMS 800/662-6338 TRAFFIC SAFETY 800/547-8518	04/14/05	2745	A	LOW DENSITY POLYETHYLENE MINIMUM 16 POUND BASE. 42" TALL.
00224.11	MARKERS, CONICAL TEMPORARY	TD7200 MODEL 742585 RINGTOP CN	THREE D TRAFFIC WORKS 877/843-9757	04/14/05	2895	A	BASE: TD8000 (22LB)
00224.11	MARKERS, CONICAL TEMPORARY	TD7500 MODEL 755273 RINGTOP SLIM LINE	THREE D TRAFFIC WORKS 877/843-9757	07/10/08	3666	A	HAS 15 POUND OCTANGULAR BASE. 42" TALL
00224.11	MARKERS, CONICAL TEMPORARY	TD7500 MODEL 755585 RINGTOP SLIM LINE	THREE D TRAFFIC WORKS 877/843-9757	07/10/08	3446	A	HAS 20 POUND RECTANGULAR BASE. 42" TALL
00224.11	MARKERS, CONICAL TEMPORARY	TEAR DROP STACKABLE CHANNELIZER MODEL: TD42-1-6/4W-15	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	05/13/10	4101	A	42" TALL APPROVED FOR 15 POUND OCTAGONAL BASE.
00224.11	MARKERS, CONICAL TEMPORARY	T-TOP STACKABLE CHANNELIZER MODEL SC42-1-6/4W-15	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	01/14/10	2168	A	15 POUND BASE. 42" TALL
00224.11	MARKERS, CONICAL TEMPORARY	WATCHTOWER STACKER CONE	PLASTICADE 800/772-0355	07/10/14	4800	A	
00224.12		SURFACE MOUNTED TUBULAR MARKERS		10/15/20		A	SEE SECTION 00856 SURFACE MOUNTED TUBULAR MARKERS

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00224.13	PLASTIC DRUMS TEMPORARY	B400A/LD4-4HI-TB	HILL & SMITH 740/816-8077 TRAFFIC SAFETY SUPPLY CO. 503/830-2048	02/12/09	3548	A	MUST USE TIRE RING BASE. THE RUBBER INSERTS ARE NOT OK. CATALOG# 2858 B400A 4-4HI TB
00224.13	PLASTIC DRUMS TEMPORARY	B500LC 4-6 HI/TB "LANE CHANGER"	HILL & SMITH 740/816-8077 TRAFFIC SAFETY SUPPLY CO. 503/830-2048	01/13/11	4277	A	MUST USE TIRE RING BASE. THE RUBBER INSERTS ARE NOT OK.
00224.13	PLASTIC DRUMS TEMPORARY	DIRECTOR DRUM LD	LAKESIDE PLASTICS 920/235-4513 TRAFFIC SAFETY SUPPLY COMPANY 800/547-8518	04/13/16	4950	A	DIRECTOR BASE OR RUBBER TIRE BASE
00224.13	PLASTIC DRUMS TEMPORARY	LIFEGARD CHANNELIZER (LDPE) MODEL# LG-L/44HO	PLASTIC SAFETY SYSTEMS 800/662-6338 TRAFFIC SAFETY 800/547-8518	02/13/92	846	A	USES RECYCLED TIRES FOR BASE. REQ HI SHEETING. LO DENSITY. MANUFACTURER IS RECOMMENDING USING 2 BASES FOR HIGH SPEEDS.
00224.13	PLASTIC DRUMS TEMPORARY	LIFEGARD II MODEL# LG2-L/44HO	PLASTIC SAFETY SYSTEMS 800/662-6338 TRAFFIC SAFETY 800/547-8518	08/12/04	2744	A	LOW DENSITY REQUIRED. HI OR BETTER REQUIRED ON ALL DRUMS FOR JOBS BID AFTER JAN 1, 2005
00224.13	PLASTIC DRUMS TEMPORARY	PLASTICADE COMMANDER TRAFFIC DRUM	PLASTICADE 800/772-0355	06/28/18	5143	A	SERIES 456 22.5# BASE
00224.13	PLASTIC DRUMS TEMPORARY	PLASTICADE ECONOCADE II TRAFFIC DRUM	PLASTICADE 800/772-0355	06/10/13	4661	A	LOW DENSITY MODEL WITH HI SHEETING
00224.13	PLASTIC DRUMS TEMPORARY	RHINO CHANELIZER DRUM MODEL 454-LD-44-HI	PLASTICADE 800/772-0355	10/09/08	3426	A	TIRE RING BASE(S) ONLY.
00224.13	PLASTIC DRUMS TEMPORARY	SUPERDOME DRUM SD-44H-0-LDTR WITH SDBTR TIRE RING BASE	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	08/13/09	3911	A	HI SHEETING. THIS IS THE LOW DENSITY VERSION. THE TIRE RING BASE SUPPLIED BY BENT IS THE ONLY APPROVED BASE.

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00224.13	PLASTIC DRUMS TEMPORARY	SUPERDOME DRUM SD-44H-LD NO TIRE RING VERSION.	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	12/10/98	1529	A	MIN BASE WT 25#. HI SHEETING. THIS IS LOW DENSITY VERSION. TIRE RING BASES ARE NOT APPROVED ON THIS UNIT (6/09).
00224.13	PLASTIC DRUMS TEMPORARY	TRAFFIC LOGIX CHANNELIZER DRUM 53242, 53241, 53262, 53261	TRAFFIC LOGIX 866/915-6449	01/11/07	2992	A	LDPE VERSION ONLY.
00224.13	PLASTIC DRUMS TEMPORARY	TRAFFIX CHANNELIZER 18044-LD-HI MODEL# 18044-LD-HI	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	10/04/90	568	A	USE LOW DENSITY TYPE, BUT HIGH DENSITY VERSION LOOKS SIMILAR. SAN-FIL OR TIRE BASE. DENSITY ON BARREL. HI SHEETING REQD.
00224.13	PLASTIC DRUMS TEMPORARY	TRAILBOSS CHANNELIZER DRUM LDPE	CORTINA SAFETY PRODUCTS 847/4552800	11/14/17	5045	A	DRUM 03-782-6HI BASE 22.5# TIRE RING 03-750-TRG
00224.13	REFLECTIVE SHEETING-DRUMS ASTM D4956 TYPE IV PRISMATIC	ORALITE RESILIENCE CHANNELIZER	ORAFOL 860/676-7100 BROOK JERZYK 860/676-7100	07/25/12	4510	A	FOR TUBES AND DRUMS WAS REFLEXITE RESILIENT C86 WHITE & FLUORESENT ORANGE
00224.13	REFLECTIVE SHEETING-DRUMS ASTM D4956 TYPE IV PRISMATIC	ORALITE SUPER BRIGHT 5934	ORAFOL 860/676-7100	06/28/19	5204	A	FOR TUBES AND DRUMS WHITE
00224.13	REFLECTIVE SHEETING-DRUMS ASTM D4956 TYPE IV. PRISMATIC	HI IMPACT CHANNELIZER TAPE	ORAFOL 860/676-7100 BROOK JERZYK 860/676-7100	01/11/07	1748	A	
00224.13	REFLECTIVE SHEETING-DRUMS ASTM D4956-TYPE III ENCAPSULATED LENS (BEADED)	3-M SERIES 3810/3814	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/08/06	2589	A	FOR TUBES AND DRUMS ONLY.
00224.13	REFLECTIVE SHEETING-DRUMS ASTM D4956-TYPE III. MICRO PRISMATIC	AVERY DENNISON WR6100 & WR6104	AVERY DENNISON 800/327-5917	05/13/10	3589	A	WHITE: WR6100; ORANGE: WR6104. DESIGNED FOR REBOUNDABLE SUBSTRATES. UPDATED 03/14

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00224, 14	DELINEATORS	DELINEATORS		01/01/21		A	SEE SECTION 00840.00 DELINEATORS
00224, 15	BARRICADE, TEMP - TYPE 1	A-CADE MODEL # 100	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	05/11/00	2270	A	TYPE I BARRICADE. FHWA OK. REQUIRES 6# SAND BALLAST.
00224, 15	BARRICADE, TEMP - TYPE 1	COMBOCADE TYPE I BARRICADE	PLASTICAIDE 800/772-0355	07/27/12	4496	A	
00224, 15	BARRICADE, TEMP - TYPE 1	ECON PLASTIC FOLDING BARRICADE	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	02/04/02	1506	A	MFG TESTED TO NCHRP 350.
00224, 15	BARRICADE, TEMP - TYPE 1	ECONOCADE TYPE I BARRICADE	PLASTICAIDE 800/772-0355	07/27/12	4497	A	
00224, 15	BARRICADE, TEMP - TYPE 1	HI IMPACT PLASTIC FOLDING BARR	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	09/11/03	2308	A	SAND FILLED BASE.
00224, 15	BARRICADE, TEMP - TYPE 1	METAL LEG FOLDING BARRICADE	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	09/11/03	2309	A	
00224, 15	BARRICADE, TEMP - TYPE 1	TD2100 MODEL# 210127 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757 PUBLIC WORKS SUPPLY GREG MCDONALD 503/678-2981	12/09/04	2882	A	ALL PLASTIC. HAS AASHTO TYPE III SHEETING.
00224, 15	BARRICADE, TEMP - TYPE 1	TD2150-215153 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757	02/09/06	3212	A	PLASTIC. HAS AASHTO TYPE III SHEETING.

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00224, 15	BARRICADE, TEMP - TYPE 1	TD2300 MODEL# 250231 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757 PUBLIC WORKS SUPPLY GREG McDONALD 503/678-2981	12/09/04	2884	A	WOOD PANELS WITH 14 GA GALV LEGS. HAS AASHTO TYPE III SHEETING.
00224, 15	BARRICADE, TEMP - TYPE 1	TYPE I ROADMARKER BARRICADE	MYERS&SON HI-WAY SAFETY, INC. HIGHWAY SAFETY PRODUCTS LUKE DE LEON 714/348-7289	12/18/12	4573	A	
00224, 15	BARRICADE, TEMP - TYPE 1	UNIVERSAL PLASTIC BARRICADE I	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	11/10/05	2169	A	MEETS NCHRP 350 CAT 2.
00224, 15	BARRICADE, TEMP - TYPE 1	WAFLE BOARD PLASTIC PANEL BW1 MODEL# "BW1"	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	11/10/05	2171	A	MEETS NCHRP 350 CAT 2
00224, 15	BARRICADE, TEMP - TYPE 1	WOOD & METAL LEG BARRICADE BP1 MODEL# "BP1"	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	11/10/05	2170	A	MEETS NCHRP 350 CAT 2.
00224, 15	BARRICADE, TEMP - TYPE 2	COMBOCADE TYPE II BARRICADE	PLASTICADE 800/772-0355	07/27/12	4496	A	
00224, 15	BARRICADE, TEMP - TYPE 2	ECON PLASTIC FOLDING BARRICADE	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	02/04/02	1506	A	MFG TESTED TO NCHRP 350.
00224, 15	BARRICADE, TEMP - TYPE 2	ECONOCADE TYPE II BARRICADE	PLASTICADE 800/772-0355	07/27/12	4497	A	
00224, 15	BARRICADE, TEMP - TYPE 2	HI IMPACT PLASTIC FOLDING BARR	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	09/11/03	2308	A	SAND FILLED BASE.

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00224, 15	BARRICADE, TEMP - TYPE 2	METAL LEG FOLDING BARRICADE	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	09/11/03	2309	A	
00224, 15	BARRICADE, TEMP - TYPE 2	SAFETYCADE	WLI INDUSTRIES TOM BOYCE 708/932-4600	01/11/96	1423	A	COLLAPSIBLE LOCKING PLASTIC BARRICADE SYSTEM, 2 TYPES: - TAPER AND TRANSITION - TANGENT (NCHRP 350-OK)
00224, 15	BARRICADE, TEMP - TYPE 2	TD2150-215213 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757	05/11/06	3279	A	ALL PLASTIC WITH AASHTO TYPE III SHEETING.
00224, 15	BARRICADE, TEMP - TYPE 2	TD2300 MODEL# 250439 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757 PUBLIC WORKS SUPPLY GREG McDONALD 503/678-2981	12/09/04	2884	A	WOOD PANELS WITH 14 GA GALV LEGS, HAS AASHTO TYPE III SHEETING.
00224, 15	BARRICADE, TEMP - TYPE 2	TYPE II ROADMARKER BARRICADE	MYERS&SON HI-WAY SAFETY, INC. HIGHWAY SAFETY PRODUCTS LUKE DE LEON 714/348-7289	12/18/12	4578	A	
00224, 15	BARRICADE, TEMP - TYPE 2	UNIVERSAL PLASTIC BARRICADE II	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	03/09/00	2169	A	MEETS NCHRP 350 CAT 2, 37" HIGH, 24" WIDE, AND 25 POUNDS.
00224, 15	BARRICADE, TEMP - TYPE 2	WAFLE BOARD PLASTIC PANEL BW2 MODEL# "BW2"	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	07/13/00	2171	A	APPROVED BY FHWA TO NCHRP 350 CAT 2.
00224, 15	BARRICADE, TEMP - TYPE 2	WOOD & METAL LEG BARRICADE BP2 MODEL# "BP2"	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	03/09/00	2170	A	MEETS NCHRP 350 CAT 2, 37" HIGH, 24" & 36" WIDE, 16 & 30 POUNDS. HAS PLYWOOD BOARDS WITH METAL LEGS.
00224, 15	BARRICADE, TEMP - TYPE 3	BENT TYPE III BARRICADE MODEL# BP3	BENT MANUFACTURING 714/842-0600 OR 888/842-0600	11/10/99	2007	A	NCHRP 350 CAT 2 APPROVED. STEEL UPRIGHTS W/WOOD PANELS. NO SIGNS AND/OR LIGHTS.

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00224, 15	BARRICADE, TEMP - TYPE 3	EZ-UP TYPE III BARRICADE	CANTEL OF MEDFORD 541/773-2765	05/11/00	2241	A	SIMILAR TO BENT TYPE III UNIT. OK BY FHWA. NO SIGNS AND/OR LIGHTS.
00224, 15	BARRICADE, TEMP - TYPE 3	PLASTICADE POWER POST	PLASTICADE 800/772-0355	07/10/14	4801	A	NO SIGNS OR LIGHTS
00224, 15	BARRICADE, TEMP - TYPE 3	PLASTICADE TELESPEAR TYPE III	PLASTICADE 847/583-4189	05/09/12	4424	A	SERIES 3500 TELESPEAR FEET SERIES 3700 ANGLE IRON FEET 4', 6', 8' WIDTHS NO SIGNS OR LIGHTS
00224, 15	BARRICADE, TEMP - TYPE 3	SENTINEL TYPE III 2604-HIP-KIT & 2606-HIP-KIT	PLASTICADE PROD. 800/772-0355 KEVIN HARLEY 520/247-5433	07/09/09	3427	A	2604 = 4'WIDE & 2606 = 6'WIDE. NO SIGNS AND/OR LIGHTS.
00224, 15	BARRICADE, TEMP - TYPE 3	TD2400-290465 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757	04/13/06	3288	A	PLASTIC PANELS, RAILS, AND UPRIGHTS. ANGLE STEEL BASE. AASHTO TYPE III SHEETING. NO SIGNS AND/OR LIGHTS.
00224, 15	BARRICADE, TEMP - TYPE 3	TD2400-291158A WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757	05/11/06	2685	A	PLASTIC RAILS, PANELS, AND UPRIGHTS. ANGLE STEEL BASE. HAS AASHTO TYPE III SHEETING. NO SIGNS AND/OR LIGHTS.
00224, 15	BARRICADE, TEMP - TYPE 3	TD2500-270465 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757	02/09/06	3213	A	PLYWOOD BOARDS WITH ANGLE STEEL UPRIGHTS AND FRAME. HAS AASHTO TYPE III SHEETING. NO SIGNS AND/OR LIGHTS.
00224, 15	BARRICADE, TEMP - TYPE 3	TD2650-280388 WORKS BARRICADE	THREE D TRAFFIC WORKS SCOTT BEHM 877/843-9757	02/09/06	3214	A	PLASTIC BOARDS WITH TUBULAR STEEL UPRIGHTS AND FRAME. HAS AASHTO TYPE III SHEETING. NO SIGNS AND/OR LIGHTS.
00224, 15	BARRICADE, TEMP - TYPE 3 MASH 2009 TL3	LANEGARD 3	PSS 800/622-6338	11/19/17	5079	A	FOLDING BASE AASHTO TYPE III SHEETING.

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00224.15	BARRICADE, TEMP - TYPE 3 MASH 2016	DAVIDSON T3B BARRICADE	PEXCO LLC - DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	07/13/00	2303	A	PLASTIC PANELS, PSST UPRIGHTS AND FEET. POLY X-TUBE UPRIGHTS AND POWDER COATED ANGLE -IRON FEET.
00224.15	REFLECTIVE SHEETING-BARRI ASTM D4956-TYPE III PRISMATIC	AURA 150	AURA OPTICAL SYSTEMS, L.P. 801/668-3439	06/10/13	4610	A	FOR BARRICADES
00224.15	REFLECTIVE SHEETING-BARRI ASTM D4956-TYPE III(VI) PRISMATIC	3-M SERIES 334/336	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/08/06	2951	A	FOR BARRICADES, PLASTIC TYPES NEED SPECIAL PREP APPROVED BY 3-M PRIOR TO SHEETING INSTALLATION
00224.15	REFLECTIVE SHEETING-BARRI ASTM D4956-TYPE IV, PRISMATIC	AVERY DENNISON W-6100 & W-6200	AVERY DENNISON 800/327-5917	06/11/09	2348	A	PRISMATIC - TYPE IV. W-6100; PLASTIC; W-6200; WOOD
00225.00	PAVEMENT MARKER ADHESIVE TEMPORARY	PAVEMENT MARKER, TEMP. ADH		03/01/10		A	SEE SECTION 00855, PERMANENT PAVEMENT MARKER ADHESIVE.
00225.10A	PAVEMENT MARKER, TEMPORARY	PAVEMENT MARKER, TEMPORARY		12/04/08		A	SEE SECTION 00855, PERMANENT PAVEMENT MARKERS.
00225.10B	PAVEMENT MARKER, FLEXIBLE TEMPORARY CHIPSEAL / OVERLAY MARKER	TRPM-HIGH HEAT FLEXIBLE MARKER (TRPM OR TOM)	PEXCO LLC - DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	10/14/10	4169	A	FOR PAVEMENT MARKING PRIOR TO PERMANENT STRIPING, WITH AND W/O CLEAR COVER, REMOVE COVER. ASPHALT TEMPS OVER 325 DEG F.
00225.10C	PAVEMENT MARKER, FLEXIBLE TEMPORARY CHIPSEAL / OVERLAY MARKER	APEX MODEL 932 FLEXIBLE MARKER MODELS: 1-W, 1-Y, & 2-Y	APEX UNIVERSAL 562/944-8878	11/11/10	4176	A	FOR ASPHALT TEMPS BELOW 325 DEGREES F.
00225.10C	PAVEMENT MARKER, FLEXIBLE TEMPORARY CHIPSEAL / OVERLAY MARKER	TRPM DAVIDSON FLEXIBLE MARKER (TRPM OR TOM)	PEXCO LLC - DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	08/10/88	160	A	FOR PAVEMENT MARKING PRIOR TO PERMANENT STRIPING, WITH AND W/O CLEAR COVER, REMOVE COVER. ASPHALT TEMPS UP TO 325 DEG F.

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00225.11	TAPE, NON-REFLECTIVE TEMPORARY, REMOVABLE	3-M A145 REMOVABLE BLACK TAPE	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	12/09/04	1411	A	BLACK REMOVABLE TAPE. DOES NOT HAVE BEADS. SURFACE NEEDS TO BE CLEAN, DRY, AND WARM. CHECK MUTCD FOR APPLICABILITY.
00225.11	TAPE, NON-REFLECTIVE TEMPORARY, REMOVABLE	3-M SERIES 715 TEMPORARY TAPE	3-M COMPANY TSSD 800/553-1380 503/309-9160	07/20/12	4484	A	
00225.11	TAPE, NON-REFLECTIVE TEMPORARY, REMOVABLE	ATM 280	ADVANCED TRAFFIC MARKINGS 252/536-2574 ALPINE PRODUCTS 253/351-9828 RAELEEN LUCAS 562/795-6160	11/10/05	2799	A	BLACK NON-REFLECTIVE TAPE.
00225.11	TAPE, NON-REFLECTIVE TEMPORARY, REMOVABLE	DELTALINE BTR	BRITE-LINE TECH: 888/375-1293 TAPE: GORDON SILL 720/473-6217 PAT DONNELLY: 918/691-1248 BILL JUBAK: 702/649-9223	05/12/05	2838	A	BLACK NON-REFLECTIVE TAPE.
00225.11	TAPE, TEMPORARY NON-REMOVABLE	FOL 200 CONSTRUCTION GRADE	FOL TAPE 888/365-8273	08/08/07	80	A	EVALUATED ON PAVEMENT MARKING TEST PROJECT, SALEM PARKWAY 4" X 300 FEET. FOIL BACKED. MUST BE DRY!
00225.11	TAPE, TEMPORARY NON-REMOVABLE	FOL 300 WET REFLECTIVE	FOL TAPE 888/365-8273	08/08/07	1162	A	EVALUATED ON PAVEMENT MARKING TEST PROJECT, SALEM PARKWAY 4" X 150 FEET. LARGER BEADS THAN FLEX-O-LINE 200. FOIL BAK
00225.11	TAPE, TEMPORARY REMOVABLE	3-M SERIES 780WR / 781WR WHITE: 780WR, YELLOW: 781WR.	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	07/10/08	3366	A	HAS WET WEATHER ATTRIBUTES.
00225.11	TAPE, TEMPORARY REMOVABLE	BRITE-LINE 100	BRITE-LINE TECH: 888/375-1293 GORDON SILL 720/473-6217 PAT DONNELLY: 918/691-1248 BILL JUBAK: 702/649-9223	08/10/06	788	A	VERY STRONG. TEMP MUST BE 60F & UP WITH CLEAN, DRY SURFACE. TAPE PULLED STRAIGHT UP TO RE-MOVE, NO HEAT, SOLVENTS, ETC.
00225.11	TAPE, TEMPORARY REMOVABLE	BRITE-LINE DELTALINE TWR	BRITE-LINE TECH: 888/375-1293 GORDON SILL 720/473-6217 PAT DONNELLY: 918/691-1248 BILL JUBAK: 702/649-9223	10/14/10	4105	A	

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00225.11	TAPE, TEMPORARY REMOVABLE	DIRECTOR 2WR	SWARCO INDUSTRIES 931/388-5900 MARK COLOMBO: 314/729-7197 MFG: 254/562-9879 TECH: 314/729-7197	08/13/09	3920	A	PROMISES WET WEATHER RETRO.
00225.11	TAPE, TEMPORARY TEMPORARY, REMOVABLE	3-M SERIES 710,711 TEMPORARY TAPE	3-M COMPANY TSSD 800/553-1380 503/309-9160	07/20/12	4484	A	
00225.12A	PAINT, TEMPORARY FOR ASPHALT OR CONCRETE	PAINT		12/04/08		A	SEE SECTION 00860, TRAFFIC PAINT, STANDARD.
00225.12B	BEADS, TEMPORARY FOR TEMPORARY PAINT	BEADS		12/04/08		A	SEE SECTION 00860.00 TRAFFIC PAINT, BEADS.
00225.14	TRANSVERSE RUMBLE STRIPS TEMPORARY	ROADQUAKE 2 TEMPORARY PORTABLE RUMBLE STRIP	PSS (PLASTIC SAFETY SYSTEMS) 800/662-6338 Ben Gascoigne	07/27/12	4489	A	SPEEDS OF 65MPH OR LESS
00225.14	TRANSVERSE RUMBLE STRIPS TEMPORARY	ROADQUAKE 2F FOLDING PORTABLE RUMBLE STRIP	PSS (PLASTIC SAFETY SYSTEMS) 800/662-6338 Ben Gascoigne	03/18/14	4749	A	SPEEDS OF 75MPH OR LESS
00225.14	TRANSVERSE RUMBLE STRIPS TEMPORARY	TRAFFIX ALERT RUMBLE STRIP RUMBLE STRIP	TRAFFIX DEVICES 801/979-7099	09/17/19	5216	A	SPEEDS OF 65MPH OR LESS ALL BLACK FOR RUMBLE STRIP APPLICATION, ALL WHITE FOR STOP BAR, OR CROSSWALK MARKING
00226.00	MOBILE BARRIER	MOBILE BARRIERS MBT-1	MOBILE BARRIERS LLC 303/526-5995 BARRIERS INTERNATIONAL 509/901-4131	05/09/19	5190	A	
00226.10	GUARDRAIL MTD REFLECTOR	GUARDRAIL MOUNTED REFLECTORS, TEMPORARY		04/19/00		A	SEE SECTION 00840.00, DELINEATORS, FLEXIBLE TYPE 4A, GUARDRAIL VERSION.

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00226.11A	BARRIER, TEMPORARY (STANDARD DEFLECTION)	BARRIERGUARD 800	LAURA METAAL ROAD SAFETY INC 480/254-6342 PACIFIC BARRIER 503/780-3671	06/16/20	3159	A	8 ANCHORS AT EACH END OF RUN END TREATMENTS & TRANSITIONS PER MFG.
00226.11A	BARRIER, TEMPORARY (STANDARD DEFLECTION)	DEFENDER BARRIER 100 LDS	SAFE BARRIERS NORTH AMERICA 888/215-4535 EXT 1 SAFE BARRIERS NORTH AMERICA LLC 888/215-4535 EXT 1	06/16/20	5217	A	ANCHORS EVERY 30 FEET END TREATMENTS & TRANSITIONS PER MFG.
00226.11A	BARRIER, TEMPORARY (STANDARD DEFLECTION)	HV2 SAFETY BARRIER	SAFERROADS 859/469-0364	12/28/20	5198	A	END TREATMENTS & TRANSITIONS PER MFG.
00226.11A	BARRIER, TEMPORARY (STANDARD DEFLECTION)	ZONEGUARD	HILL & SMITH 707/366-8759 TRAFFIC SAFETY SUPPLY CO. 503/235-8531	06/08/20	3816	A	ANCHORS AT EACH END AND EVERY 33.3 FEET END TREATMENTS & TRANSITIONS PER MFG.
00226.11A	BARRIER, TEMPORARY MINIMUM DEFLECTION	BARRIERGUARD 800 MDS CONFIGURATION	LAURA METAAL ROAD SAFETY INC 480/254-6342 PACIFIC BARRIER 503/780-3671	06/16/20	3159	A	USE T-TOP AND ANCHOR EACH END AND EVERY 19.7 FEET END TREATMENTS & TRANSITIONS PER MFG.
00226.11A	BARRIER, TEMPORARY (STANDARD DEFLECTION)	HIGHWAYGUARD LDS	HIGHWAY CARE +44 (0) 344-840-0088 ENGINEERING@HIGHWAYCARE.COM	12/28/20	5296	A	6 ANCHORS EACH END OF RUN AND STAGGERD EVERY 40' END TREATMENTS & TRANSITIONS PER MFG.
00226.11A	BARRIER, TEMPORARY (STANDARD DEFLECTION)	SAFEZONE	LAURA METAAL ROAD SAFETY INC 480/254-6342 PACIFIC BARRIER 503/780-3671	12/28/20	5272	A	8 ANCHORS AT EACH END OF RUN, OR 8 ANCHORS AT EACH END OF RUN AND EVERY 38' END TREATMENTS & TRANSITIONS PER MFG.
00226.11B	BARRIER MARKER TEMPORARY	BARRIER MARKER, TEMPORARY		04/19/00		A	SEE SECTION 00820.11 BARRIER MARKERS.
00226.11B	BARRIER PANEL, REFLECTIVE TEMPORARY	3-M SERIES 344/346 LDS	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	11/09/04	2487	A	MOUNTS TO THE SIDE OF BARRIER. ODOT RESEARCH PROJECT. IT IS ALUMINUM STRIPS WITH RETRO-REFLECTIVE SHEETS ON THE FACE.

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00226.11C	GLARE SCREENS, TEMPORARY	ARROW GLARE SCREEN	ASSOCIATED THERMOFORMING, INC 9770/532-2000 EXT. 203 FREEWAY SCREEN, LLC 714/585-3405	11/17/14	4766	A	
00226.11C	GLARE SCREENS, TEMPORARY	GLARE SHIELDS, TEMPORARY		04/19/00		A	SEE SECTION 00822.00, GLARE SHIELDS.
00226.12	IMPACT ATTENUATOR TEMPORARY	IMPACT ATTENUATOR TEMPORARY		01/01/21		A	ALSO SEE SECTION 00830.00 IMPACT ATTENUATOR.
00226.12	IMPACT ATTENUATOR TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	UNIVERSAL TAU-HR TL-3	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	06/11/14	4771	A	
00226.12	IMPACT ATTENUATOR TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	UNIVERSAL TAU-HR TL-2	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	06/11/14	4771	A	
00226.12	IMPACT ATTENUATOR, HS TEMPORARY NCHRP 350 HS RE-DIRECTIVE, NON-GATING.	UNIVERSAL TAU-HI (HS)	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	03/12/09	2961	A	FWHA APPROVED
00226.12	IMPACT ATTENUATOR, HS TEMPORARY NCHRP 350 TL-3	QUEST 115 SYSTEM	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	11/08/07	3555	A	IMPACT SPEEDS TO 70 MPH.
00226.12	IMPACT ATTENUATOR, HS TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	2005 FASTRACC	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	11/10/05	3156	A	TESTED FOR IMPACT SPEEDS UP TO 70 MPH. 25' 8" LONG. 30" WIDE.
00226.12	IMPACT ATTENUATOR, J TEMPORARY MASH TL-3 RE-DIRECTIVE, NON GATING	QUADGUARD ELITE M10 (8 BAY)	TRINITY HIGHWAY PRODUCTS, LLC 916/644-9102 CORAL SALES COMPANY 503/655-6351	08/18/16	4981	A	LENGTH 27' 2" WIDTH 24"

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00226.12	IMPACT ATTENUATOR, J TEMPORARY MASH TL-3 RE-DRECTIVE, NON GATING	QUADGUARD M10	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	05/14/12	4492	A	TESTED FOR SPEEDS UP TO 60 MPH WIIDTHS 24" 22' LENGTH
00226.12	IMPACT ATTENUATOR, J TEMPORARY MASH TL-3 RE-DIRECTIVE, NON GATING	SCI100GM	WORK AREA PROTECTION (SCI) 800/327-4417 OR 630/377-9100	01/11/07	2907	A	LOW MAINTENANCE UNIT. NARROW APPLICATIONS.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY NCHRP 350 TL-2	QUADGUARD II	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	07/09/09	3872	A	TESTED FOR IMPACT SPEEDS UP TO 45 MPH.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY NCHRP 350 TL-2 RE-DIRECTIVE, NON GATING	2005 SHORTRACC (TL-2)	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	01/12/06	3154	A	TESTED FOR IMPACT SPEEDS UP TO 70 KPH/45 MPH. 14.2' LONG.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY NCHRP 350 TL-2 RE-DIRECTIVE, NON GATING	SCI70GM	WORK AREA PROTECTION (SCI) 800/327-4417 OR 630/377-9100	01/11/07	3110	A	LOW MAINTENANCE UNIT. NARROW OR WIDE APPLICATIONS.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY NCHRP 350 TL-2 RE-DIRECTIVE, NON GATING	SHORTRACC (TL-2) WAS TRACC (TL-2)	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	02/19/04	2844	A	TESTED FOR IMPACT SPEEDS UP TO 70 KPH/45 MPH. 14.2' LONG. 32" WIDE. ORIG Q UNDER P-1902.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY NCHRP 350 TL-2 RE-DIRECTIVE, NON-GATING	2005 WIDETRACC (TL-2)	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	01/12/06	3155	A	TESTED FOR IMPACT SPEEDS UP TO 45 MPH.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY NCHRP 350 TL-2 RE-DIRECTIVE, NON-GATING	UNIVERSAL TAU-II (TL-2)	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	02/10/05	2961	A	FHWA APPROVED - 4 BAY SYSTEM.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY, NARROW APPS. NCHRP 350 TL-2, GATING NON RE-DIRECTING	ABSORB 350 TL-2 WATER FILLED	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	08/08/02	2336	A	DON'T USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME

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00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY, NARROW APPS. NCHRP 350 TL-2, GATING NON RE-DIRECTING	ACZ-350 WATER FILLED	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 3/12/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	07/09/09	3854	A	DON'T USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY, NARROW SYSTEM NCHRP 350 TL-2	NEAT	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 3/12/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	09/14/95	1327	A	TESTED FOR IMPACT SPEEDS UP TO 70 KPH/45 MPH. THIS PRODUCT IS NON-REDIRECTIVE AND HAS ALUMINUM CARTRIDGES.
00226.12	IMPACT ATTENUATOR, TL2 TEMPORARY, NARROW SYSTEM NCHRP 350 TL-2 RE-DIRECTIVE, NON-GATING.	QUEST 70 (TL-2)	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 3/12/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	06/09/11	4372	A	TESTED FOR IMPACT SPEEDS UP TO 45 MPH THREE BAYS. ARRIVES FULLY ASSEMBLED.
00226.12	IMPACT ATTENUATOR, TL-2 TEMPORARY, NARROW APPS. MASH TL-2, GATING NON RE-DIRECTING	ABSORB-M WATER FILLED	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	11/06/19	5223	A	DON'T USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME
00226.12	IMPACT ATTENUATOR, TL-2 TEMPORARY, NARROW APPS. NCHRP 350 TL-2, GATING NON RE-DIRECTING	ABSORB 350 TL-2 WATER FILLED	LINDSAY MANUFACTURING 916/474-9644	11/06/19	2336	A	DON'T USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3	QUADGUARD II	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 3/12/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	07/09/09	3872	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3	QUEST 350	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 3/12/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	11/08/07	3138	A	WATCH REPAIR COSTS. BETTER FOR LOW HIT AREAS.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 GATING, NON RE-DIRECTIVE	CRASHGARD	PLASTIC SAFETY SYSTEMS 800/662-6338	08/14/08	3478	A	WATCH FOR INSERTS REQUIRED ON SOME UNITS. GET ARRAY LAYOUTS FROM THE MANUFACTURER.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 GATING, NON RE-DIRECTIVE	ENERGITE III	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 3/12/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	11/09/95	1297	A	CHECK STANDARD DRAWINGS FOR ARRAY LAYOUT. TEMP APPS ONLY. TESTED FOR SPEEDS TO 60 MPH.

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00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 GATING, NON RE-DIRECTIVE	FITCH SAND FILLED MODULES LABELED AS "UNIVERSAL MODULE"	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	06/10/93	1028	A	CHECK STANDARD DRAWINGS FOR ARRAYS. TEMP APPS ONLY. TESTED FOR SPEEDS TO 60 MPH.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 NON-REDIRECTIVE	TRAFFIX DEVICES BIG SANDY	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	12/12/02	1850	A	GET LAYOUT ARRAYS FROM THE MANUFACTURER. TEMP APPS ONLY. TESTED FOR SPEEDS TO 60 MPH.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	2005 TRACC (TL-3)	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	11/10/05	3153	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. 21' LONG. 30" WIDE.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	TRACC (TL-3)	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	11/10/99	1902	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. 21' LONG. 32" WIDE.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	X-TENUATOR	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	05/12/11	4359	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH NARROW APPLICATIONS
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON-GATING	2005 WIDETRACC (TL-3)	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	01/12/06	3155	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON-GATING	UNIVERSAL TAU-II (TL-3)	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	02/10/05	2961	A	FHWA APPROVED - 8 BAY SYSTEM.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON-GATING	WIDETRACC	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	04/10/03	2759	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY, NARROW APPS. MASH 2009 TL-3, GATING NON RE-DRECTING	TRAFFIX SLED END TREATMENT SYSTEM WATER FILLED	TRAFFIX DEVICES, INC 801/979-7099	02/22/18	4919	A	DON'T USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME

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00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY, NARROW APPS. MASH TL-3, GATING NON RE-DIRECTING	ABSORB-M WATER FILLED	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	11/06/19	5223	A	DONT USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY, NARROW APPS. NCHRP 350 TL-3, GATING NON RE-DIRECTING	ABSORB 350 TL-3 WATER FILLED	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	10/09/08	2336	A	DONT USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY, NARROW APPS. NCHRP 350 TL-3, GATING NON RE-DIRECTING	ACZ-350 WATER FILLED	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	07/09/09	3854	A	DONT USE WITHIN 100' OF WATER BODY USE CALCIUM MAGNESIUM ACETATE 25% OR LIQUID POTASSIUM ACETATE 60% SOLUTION BY VOLUME
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY, NARROW SYSTEM NCHRP 350 TL-3	QUADGUARD CZ	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	04/09/98	1572	A	PERM. AND TEMP. INSTALLATIONS. RE DIRECTIVE AND NON-GATING. TESTED FOR IMPACT SPEEDS TO 60 MPH.
00226.12	IMPACT ATTENUATOR, TL-3 TEMPORARY, NARROW SYSTEM NCHRP 350 TL-3	REACT 350 NARROW (TL3)	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	08/10/95	1364	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. REQUIRES 8" THICK 4000PSI CONCRETE SLAB FOR ANCHOR. REDIRECT/NONGATING
00226.23	IMPACT ATTENUATOR, TL2 TRUCK MOUNTED NCHRP 350 TL-2	ALPHA 70K	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	10/10/96	1549	A	TRUCK MTD. TESTED FOR IMPACT SPEEDS UP TO 45 MPH. FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
00226.23	IMPACT ATTENUATOR, TL2 TRUCK MOUNTED NCHRP 350 TL-2	RENCO REN-GARD 815 TMA	RENCO SUPPLY 512/251-2421 JML SERVICES 916/635-3054	06/10/04	2704	A	FEDS OK'D TL-2 TESTING.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED MASH 2016 TL-3	BLADE TMA	BLADE B.V +31/765017980 VERDEGRO USA LLC 786/408-5709	11/16/17	5075	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH FOLLOW MANUFACTURER'S INSTRUC.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED MASH 2016 TL-3	SMT	TRINITY HIGHWAY PRODUCTS, LLC 916/644-9102 CORAL SALES 800/538-7245	04/28/20	5254	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH FOLLOW MANUFACTURER'S INSTRUC.

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00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED MASH 2016 TL-3	SS180 M	TRINITY HIGHWAY PRODUCTS, LLC 916/644-9102 CORAL SALES 800/538-7245	04/28/20	5255	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH FOLLOW MANUFACTURERS INSTRUC.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED MASH 2016 TL-3	TTMA-200 TRAILER MOUNTED ATTENUATOR	GREGORY INDUSTRIES 330/477-4800 EXT 158 TRAFFIC SAFETY SUPPLY COMPANY 503/235-8531	05/27/20	5264	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH FOLLOW MANUFACTURERS INSTRUC. USE 20K LBS GVW OR HIGHER SUPPORT TRUCK
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	ALPHA 100K	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	07/09/99	988	A	NCHRP 350.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	MPS 350 III and MPS 350 X	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	05/09/97	1624	A	TRUCK MTD. TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. FOLLOW MANUFACTURERS INSTRUC. UNIT IS ONLY 4' WIDE.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SAFE-STOP 180 TMA #9180	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	04/14/05	2920	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. FOLLOW MANUFACTURERS INSTRUC.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SAFE-STOP 180 TMA #9181	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	04/14/05	2892	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. FOLLOW MANUFACTURERS INSTRUC.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SAFE-STOP 180 TMA #9182	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	08/14/05	3148	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH. FOLLOW MANUFACTURERS INSTRUC.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SAFE-STOP TMA -MODEL 8290	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	03/09/00	2200	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. FOLLOW MANUFACTURERS INSTRUC.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SAFE-STOP TMA -MODEL 8291	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	07/09/09	3902	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH.

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00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SAFE-STOP TRAILER TMA	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	08/14/08	3262	A	TRAILER MOUNTED. MUST USE SUPPORT TRUCKS APPROX 20K LBS GWW OR HIGHER.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SCORPION C-10,000	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	12/14/00	2313	A	USES A CRUSHABLE ALUMINUM STRUT WITH BACKUP STRUCTURE AND A CARTRIDGE ASSEMBLY. TOTAL LENGTH: 140".
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SCORPION TRAILER ATTENUATOR MODEL# 10002-TL-3	TRAFFIX DEVICES TODD MELIN 949/361-5663 HIGHWAY SPECIALTIES 503/390-1113 JEFF PETERSON	08/14/08	3541	A	TRAILER MOUNTED. MUST USE SUPPORT TRUCKS APPROX 20K LBS. GWW OR HIGHER.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	SS90 HD	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	02/06/13	4562	A	TESTED FOR IMPACT SPEEDS UP TO 60 MPH
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	TTMA-100 TRAILER TMA	GREGORY INDUSTRIES 330/477-4800 EXT 158	04/14/11	4353	A	TRAILER MOUNTED. MUST USE SUPPORT TRUCKS APPROX 20K LBS GWW OR HIGHER.
00226.23	IMPACT ATTENUATOR, TL-3 TRUCK MOUNTED NCHRP 350 TL-3	VORTEQ TL-3	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	07/10/08	3644	A	TRAILER MOUNTED. MUST USE SUPPORT TRUCKS APPROX 20K LBS GWW OR HIGHER.
00227.13	TRAFFIC SIGNAL, PORTABLE TRAILER MOUNT	ADDCO PTS-2000	JOHN THOMAS, INC. 888/447-7263 ANNE BROUSIL 815/288-2343 TRAFFIC SAFETY 800/547-8518	01/12/06	1586	Q	PROJECT MUST INCLUDE SPECS FOR PORTABLE SIGNALS. APPROVAL NEEDED PRIOR TO USE.
00227.13	TRAFFIC SIGNAL, PORTABLE TRAILER MOUNT	HORIZON SQ-3TS	HORIZON SIGNAL 800/852-8796 HIGHWAY SPECIALTIES 503/390-1113	01/12/06	2646	Q	PROJECT MUST INCLUDE SPECS FOR PORTABLE SIGNALS. APPROVAL NEEDED PRIOR TO USE.
00227.13	TRAFFIC SIGNAL, PORTABLE TRAILER MOUNT	MODEL PTL 2.4X	NORTH AMERICA TRAFFIC 877/852-4626	10/09/08	3683	Q	PROJECT MUST INCLUDE SPECS FOR PORTABLE SIGNALS. APPROVAL NEEDED PRIOR TO USE.

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00227.13	TRAFFIC SIGNAL, PORTABLE TRAILER MOUNT	RC FLAGMAN PTL 2.4	NORTH AMERICA TRAFFIC 877/632-4626	02/08/07	3297	Q	PROJECT MUST INCLUDE SPECS FOR PORTABLE SIGNALS. APPROVAL NEEDED PRIOR TO USE.
00227.13	TRAFFIC SIGNAL, PORTABLE TRAILER MOUNT	STS PST-1000	SUPERIOR TRAFFIC SERVICES, LLC JEFF HOLLENBECK 406/531-8914 MIKE DAVIS 509/220-0339	02/21/18	5013	Q	PROJECT MUST INCLUDE SPECS FOR PORTABLE SIGNALS. APPROVAL NEEDED PRIOR TO USE.
00228.10	PEDESTRIAN CHANNELIZING DEVICE (PCD)	SAFETY WALL SW-3674	PLASTIC SAFETY SYSTEMS INC 216/231/8590	06/13/11	4402	A	384 SQ IN OF SHEETING PER SIDE SHEETING WILL MATCH THE COLOR OF THE BODY. WHITE TYPE II OR IV ORANGE TYPE VIII OR IX
00228.10	PEDESTRIAN CHANNELIZING DEVICE (PCD)	STRONGWALL ADA PEDESTRIAN BARRICADE	PLASTICAIDE 800/772-0355	06/23/14	4748	A	384 SQ IN OF SHEETING PER SIDE SHEETING WILL MATCH THE COLOR OF THE BODY. WHITE TYPE II OR IV ORANGE TYPE VIII OR IX
00228.10	PEDESTRIAN CHANNELIZING DEVICE (PCD)	TRAFFIX URBANITE WALL SHALL HAVE ADA COMPLIANT LEGS	TRAFFIX DEVICES INC. 801/9797099 TRAFFIX SAFETY SUPPLY COMPANY 503/235-8531	03/14/17	5031	A	384 SQ IN OF SHEETING PER SIDE SHEETING WILL MATCH THE COLOR OF THE BODY. WHITE TYPE II OR IV ORANGE TYPE VIII OR IX
00228.10	PEDESTRIAN CHANNELIZING DEVICE (PCD)	YODOCK 2001	YODOCK 888/496-3625 CORAL SALES 800/538-7245	01/26/12	4561	A	384 SQ IN OF SHEETING PER SIDE SHEETING WILL MATCH THE COLOR OF THE BODY. WHITE TYPE II OR IV ORANGE TYPE VIII OR IX
00228.10	PEDESTRIAN CHANNELIZING DEVICE (PCD)	YODOCK 2001M	YODOCK 888/496-3625 CORAL SALES 800/538-7245	06/11/13	2652	A	384 SQ IN OF SHEETING PER SIDE SHEETING WILL MATCH THE COLOR OF THE BODY. WHITE TYPE II OR IV ORANGE TYPE VIII OR IX
00228.10	PEDESTRIAN CHANNELIZING DEVICE (PCD) MASH TL-3 2016	TPAR	PEXCO LLC- DAVIDSON TRAFFIC 877/635-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIX SAFETY 800/547-8518	06/10/13	4604	A	384 SQ IN OF SHEETING PER SIDE SHEETING WILL MATCH THE COLOR OF THE BODY. WHITE TYPE II OR IV ORANGE TYPE VIII OR IX
00228.12	BICYCLE CHANNELIZING DEVICE (BCD)	YODOCK 2001SL SLIMLINE CHANNELIZER	YODOCK 888/496-3625 CORAL SALES 800/538-7245	05/11/16	4659	A	72 SQ IN WHITE SHEETING PER SIDE TYPE III OR IV

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00228.13	TEMPORARY CURB RAMPS	BOARDWALK PLATFORM 2	PSS 800/662-6338	05/22/17	5046	A	RAMP AND PLATFORM
00228.13	TEMPORARY CURB RAMPS	BOARDWALK RAMP	PSS 800/662-6338	03/24/17	5043	A	RAMP
00229.10	SMART WORK ZONE SYSTEM VENDOR	ASTI	ASTI TRANSPORTATION SYSTEMS 302/328-3220	09/09/10	4071	A	ELEVATED, TRAILER-MOUNTED, MICROWAVE / BLUETOOTH SENSORS.
00229.10	SMART WORK ZONE SYSTEM VENDOR	ICONE	ICONE PRODUCTS 315/626-6800	05/12/11	3674	A	GROUND-MOUNTED, DOPPLER RADAR SENSORS WITHIN PORTABLE TRAFFIC DRUMS.
00229.10	SMART WORK ZONE SYSTEM VENDOR	JAMLOGIC PTS	VER-MAC 888/488-7446	08/11/11	4075	A	ELEVATED, TRAILER-MOUNTED, DOPPLER/ MICROWAVE/ BLUETOOTH SENSORS.
00229.10	SMART WORK ZONE SYSTEM VENDOR	SALANDER SOFTWARE SERVICES	SALANDER LLC 612/964-6004	03/06/17	4947	A	
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	AIRTROL GEOBINDER	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594 HANES GEO COMPONENTS 800/324-4595	07/09/09	3905	A	
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	DUST ARMOUR	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3904	A	
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	DUST STOP	CYPHER INTERNATIONAL LTD. 204/489-1214	01/10/08	3173	A	MFG CLAIMS NATURAL POLYSACCHARIDES.

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00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	DUSTFLOC	FIBER MARKETING 800/426-6002	04/09/09	3268	A	
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	ENVIROPAM L	INNOVATIVE TURF SOLUTIONS 513/317-8311	03/10/11	4318	A	WAS NAMED HYDRAPAM
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	NATURESOWN TRIPLE TAC	HAMILTON MANUFACTURING 208/733-9689	02/10/11	4201	A	
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	NATURESOWN X9000	HAMILTON MANUFACTURING 208/733-9689	02/10/11	4204	A	AGRICULTURAL FIBERS AND WOOD CELLULOSE FIBERS. HYDR APPLIED POLYMER BASED TAC
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2	PAM 12	ENCAP 877/405-5050	12/11/08	3545	A	PAPER/STRAW WITH TACKIFIER.
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2 (TACKIFIER)	J-3000 GUAR	RANTEC CORPORATION 307/655-9565	10/14/10	1577	A	ACCEPTABLE AS A TACKING AGENT. DURATION: LONG TERM 3-5 MONTHS ORGANIC. MAIN COMPONENT: GUAR.
00280.14C	CHEMICAL DUST CONTROL-DRY TYPE 2 (W/TACKIFIER)	NATURESOWN EVOLUTION	HAMILTON MANUFACTURING 208/733-9689	02/10/11	4203	A	AGRICULTURAL FIBERS AND WOOD CELLULOSE FIBERS. HYDR APPLIED GUAR BASED TAC
00280.14C	CHEMICAL DUST CONTROL-WET TYPE 1	EARTH BIND 100	ENVIROAD 800/536-2650	05/14/09	3673	A	POSSIBLE PROBLEMS IN S.C. PER APEL (4/06).
00280.14C	CHEMICAL DUST CONTROL-WET TYPE 1	ENVIROPAM(L) LIQUID	INNOVATIVE TURF SOLUTIONS 513/317-8311	03/10/11	4318	A	WAS NAMED HYDRAPAM (L)

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00280.14C	CHEMICAL DUST CONTROL-WET TYPE 1	SOIL TAC	SOILWORKS 800/545-5420	04/14/05	2939	A	
00280.14C	CHEMICAL DUST CONTROL-WET TYPE 1	TOP SEAL	SOILS CONTROL INTERNATIONAL 254/526-5550	05/14/09	1650	A	
00280.14E	MATTING - TYPE A SLOPE	AIRTROL GEOBINDER	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3905	A	
00280.14E	MATTING - TYPE A SLOPE	EARTHGUARD FIBER MATRIX	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	01/08/09	2972	A	SPRAY W/ WOOD CELLULOSE FIBER GUAR TACKIFIER, PAM STABILIZER & STARCH BIO-DEGRADABLE
00280.14E	MATTING - TYPE A SLOPE	ECOAEGIS	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	04/10/08	1548	A	BONDED WOOD & SYNTHETIC FIBERS HYDRAULICALLY APPLIED.
00280.14E	MATTING - TYPE A SLOPE	ENVIRO-SHIELD BONDED FIBER MTX	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3533	A	
00280.14E	MATTING - TYPE A SLOPE	EROSION CONTROL BLANKET S 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4845	A	
00280.14E	MATTING - TYPE A SLOPE	EROSION CONTROL BLANKET S 31 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4843	A	
00280.14E	MATTING - TYPE A SLOPE	EROSION CONTROL BLANKET C 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	05/01/15	4848	A	

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00280.14E	MATTING - TYPE A SLOPE	EROSION CONTROL BLANKET SC 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/13/15	4846	A	
00280.14E	MATTING - TYPE A SLOPE	EXCEL CS-3 ALL NATURAL	WESTERN EXCELSIOR 800/967-4009 GEO TK 360/750-1955	02/08/07	3397	A	70% WHEAT STRAW & 30% COCONUT. WITH JUTE SCRIM
00280.14E	MATTING - TYPE A SLOPE	FLEXTERRA HP-FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	02/10/11	4205	A	FLEXIBLE GROWTH MEDIUM HYDRAULICALLY APPLIED. RECYCLED THERMALLY REFINED WOOD FIBERS.
00280.14E	MATTING - TYPE A SLOPE	FUSION	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	06/19/19	5199	A	HYDRO. APPLIED. GAR. PAM STABILIZER SOIL BIO-AMENDMENTS
00280.14E	MATTING - TYPE A SLOPE	GEOJUTE	BELTON INDUSTRIES 800/225-4099 BOB MORAN ACF WEST 800/878-5115	10/11/01	2490	A	WOVEN JUTE. BIODEGRADABLE.
00280.14E	MATTING - TYPE A SLOPE	HYDRA CX2	NORTH AMERICAN GREEN 800/772-2040	05/14/09	3532	A	
00280.14E	MATTING - TYPE A SLOPE	HYDRO-BLANKET BFM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115 AGRIVESTMENT 253/383-5014	07/13/06	3318	A	WOOD FIBER
00280.14E	MATTING - TYPE A SLOPE	HYDROSTRAW BONDED FIBER MATRIX	HYDROSTRAW 800/545-1755 ED LEE	11/11/10	4164	A	
00280.14E	MATTING - TYPE A SLOPE	NORTH AMERICAN GREEN S150BN	NORTH AMERICAN GREEN 800/772-2040 OR 812/687-6632 ACF WEST 800/878-5115	07/10/97	1381	A	STRAW FIBER COVERED WITH TWISTED PAPER YARN NETTING. 100% BIO-DEGRADABLE.

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00280.14E	MATTING - TYPE A SLOPE	NORTH-AMERICAN GREEN S76BN	NORTH AMERICAN GREEN 800/772-2040 OR 812/687-6632 ACF WEST 800/878-5115	07/10/97	1380	A	STRAW FIBER CONVERTED WITH BIO-DEGRADABLE NETTING. 100% BIO-DEGRADABLE.
00280.14E	MATTING - TYPE A SLOPE	SOIL GUARD	MAT, INC. 888/477-3028 (WAS WEYERHAEUSER UNTIL 12/99)	11/09/95	1403	A	MADE OF FIR AND HEMLOCK. BONDED FIBER MATRIX. HYDRAULICALLY APPLIED.
00280.14E	MATTING - TYPE A SLOPE HYDRAULICALLY APPLIED	BINDEX BFM	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4563	A	HYDRAULICALLY APPLIED WOOD FIBER
00280.14E	MATTING - TYPE A SLOPE HYDRAULICALLY APPLIED	FLEXTERRA FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	11/09/06	3319	A	HYDRAULICALLY APPLIED WOOD FIBER
00280.14E	MATTING - TYPE A SLOPE HYDRAULICALLY APPLIED	PROMATRIX ENGINEERED FIBER MATRIX	PROFILE PRODUCTS, LLC 847/215-3454 ACF WEST 503/771-5115	09/19/12	4506	A	HYDRAULICALLY APPLIED WOOD FIBER
00280.14E	MATTING - TYPE B SLOPE	EARTHGUARD FIBER MATRIX/VERTEX	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	01/08/09	2972	A	SPRAY W/ WOOD CELLULOSE FIBER GUAR TACKIFIER, PAM STABILIZER & STARCH BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	EROSION CONTROL BLANKET C 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	05/01/15	4848	A	BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	EROSION CONTROL BLANKET SC 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/13/15	4846	A	BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	EROSION CONTROL BLANKET S 31 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4843	A	BIODEGRADABLE

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00280.14E	MATTING - TYPE B SLOPE	EROSION CONTROL BLANKET S 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4845	A	BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	EXCEL CS-3 ALL NATURAL	WESTERN EXCELSIOR 800/987-4009 GEOTEK 360/750-1955	02/08/07	3397	A	70% WHEAT STRAW & 30% COCONUT. WITH JUTE SCRIM BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	FLEX TERRA HP-FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	02/10/11	4205	A	FLEXIBLE GROWTH MEDIUM HYDRAULICALLY APPLIED. RECYCLED THERMALLY REFINED WOOD FIBERS BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	FUSION	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	06/19/19	5199	A	HYDRO. APPLIED. GAR. PAM STABILIZER SOIL BIO-AMENDMENTS BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	HYDRA CX2	NORTH AMERICAN GREEN 800/772-2040	05/14/09	3532	A	BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE	SOIL GUARD	MAT, INC. 888/477-3028 (WAS WEYERHAEUSER UNTIL 12/99)	11/09/95	1403	A	MADE OF FIR AND HEMLOCK. BONDED FIBER MATRIX. HYDRAULICALLY APPLIED. BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE HYDRAULICALLY APPLIED	BINDEX BFM	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4563	A	HYDRAULICALLY APPLIED WOOD FIBER
00280.14E	MATTING - TYPE B SLOPE HYDRAULICALLY APPLIED	FLEX TERRA FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	11/09/06	3319	A	HYDRAULICALLY APPLIED WOOD FIBER BIODEGRADABLE
00280.14E	MATTING - TYPE B SLOPE HYDRAULICALLY APPLIED	PROMATRIX ENGINEERED FIBER MATRIX	PROFILE PRODUCTS, LLC 847/215-3454 ACF WEST 503/771-5115	09/19/12	4506	A	HYDRAULICALLY APPLIED WOOD FIBER BIODEGRADABLE

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00280.14E	MATTING - TYPE C SLOPE	AIRTROL GEOBINDER	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3905	A	
00280.14E	MATTING - TYPE C SLOPE	COCOFLEX ET-FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	03/12/09	3803	A	EXTENDED TERM FLEXIBLE GROWTH MEDIUM, WOOD & COCONUT. BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	EARTHGUARD FIBER MATRIX	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	08/13/09	2972	A	SPRAY W/ WOOD CELLULOSE FIBER GUAR TACKIFIER, PAM STABILIZER & STARCH BIO-DEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	ECOAEGIS	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	04/10/08	1548	A	BONDED WOOD & SYNTHETIC FIBERS HYDRAULICALLY APPLIED.
00280.14E	MATTING - TYPE C SLOPE	ENVIRO-SHIELD BONDED FIBER MTX	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3533	A	BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	EROSION CONTROL BLANKET S 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4845	A	BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	EROSION CONTROL BLANKET C 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	05/01/15	4848	A	BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	EROSION CONTROL BLANKET SC 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/13/15	4846	A	BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	EXCEL CS-3 ALL NATURAL	WESTERN EXCELSIOR 800/987-4009 GEO TK 360/750-1955	02/08/07	3397	A	70% WHEAT STRAW & 30% COCONUT. WITH JUTE SCRIM BIODEGRADABLE

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00280.14E	MATTING - TYPE C SLOPE	FLEXTERRA HP-FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	02/10/11	4205	A	FLEXIBLE GROWTH MEDIUM HYDRAULICALLY APPLIED. RECYCLED THERMALLY REFINED WOOD FIBERS BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	FUSION	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	06/19/19	5199	A	HYDRO. APPLIED. GAR. PAM STABILIZER SOIL BIO-AMENDMENTS BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	GEOJUTE	BELTON INDUSTRIES 800/225-4099 BOB MORAN ACF WEST 800/878-5115	10/11/01	2490	A	WOVEN JUTE. BIODEGRADABLE.
00280.14E	MATTING - TYPE C SLOPE	HYDRA CM STEEP SLOPE MATRIX	NORTH AMERICAN GREEN 800/772-2040	11/11/10	4265	A	70% STRAW & 20% RECLAIMED COTTON FIBER. BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	HYDRA CX2	NORTH AMERICAN GREEN 800/772-2040	05/14/09	3532	A	BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	HYDRO-BLANKET BFM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115 AGRIVESTMENT 253/383-5014	07/13/06	3318	A	WOOD FIBER BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	HYDROSTRAW ALL IN 1 BONDED FIBER MATRIX	HYDROSTRAW 800/545-1755 RON EDWARDS	07/09/15	4899	A	BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	HYDROSTRAW BONDED FIBER MATRIX	HYDROSTRAW 800/545-1755 ED LEE	11/11/10	4164	A	BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE	SOIL GUARD	MAT, INC. 888/477-3028 (WAS WEYERHAEUSER UNTIL 12/99)	11/09/95	1403	A	MADE OF FIR AND HEMLOCK. BONDED FIBER MATRIX. HYDRAULICALLY APPLIED. BIODEGRADABLE

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<u>STANDARD SPEC #</u>	<u>CATEGORY</u>	<u>PRODUCT NAME</u>	<u>LOCAL REPRESENTATIVE AND/OR MANUFACTURER</u>	<u>EFFECTIVE DATE</u>	<u>PRODUCT NUMBER</u>	<u>LIST</u>	<u>REMARKS</u>
00280.14E	MATTING - TYPE C SLOPE HYDRAULICALLY APPLIED	BINDEX BFM	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4563	A	HYDRAULICALLY APPLIED WOOD FIBER BIODEGRADABLE
00280.14E	MATTING - TYPE C SLOPE HYDRAULICALLY APPLIED	FLEXTERRA FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	11/09/06	3319	A	HYDRAULICALLY APPLIED WOOD FIBER BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	COCOFLEX ET-FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	03/12/09	3803	A	EXTENDED TERM FLEXIBLE GROWTH MEDIUM, WOOD & COCONUT.
00280.14E	MATTING - TYPE D SLOPE	CURLEX NET FREE	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/13/08	3712	A	BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	EARTHGUARD FIBER MATRIX/VERTEX	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	08/13/09	2972	A	SPRAY W/ WOOD CELLULOSE FIBER GUAR TACKIFIER, PAM STABILIZER & STARCH BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	EROSION CONTROL BLANKET S 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4845	A	BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	EROSION CONTROL BLANKET C 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	05/01/15	4848	A	BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	EROSION CONTROL BLANKET SC 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/13/15	4846	A	BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	EXCEL CS-3 ALL NATURAL	WESTERN EXCELSIOR 800/987-4009 GEO TK 360/750-1955	02/08/07	3397	A	70% WHEAT STRAW & 30% COCONUT. WITH JUTE SCRIM BIODEGRADABLE

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00280.14E	MATTING - TYPE D SLOPE	FLEXTERRA HP-FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	02/10/11	4205	A	FLEXIBLE GROWTH MEDIUM HYDRAULICALLY APPLIED. RECYCLED THERMALLY REFINED WOOD FIBERS BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	FUSION	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	06/19/19	5199	A	HYDRO. APPLIED, GAR, PAM STABILIZER SOIL BIO-AMENDMENTS BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	GROUNDCONTROL HY-C3 STRAW & COTTON	EAST COAST EROSION CONTROL 610/488-8496	05/03/13	4619	A	HYDRAULICALLY APPLIED BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	GROUNDCONTROL HY-C4 STRAW & COTTON	EAST COAST EROSION CONTROL 610/488-8496	05/03/13	4620	A	HYDRAULICALLY APPLIED BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	HYDRA CM STEEP SLOPE MATRIX	NORTH AMERICAN GREEN 800/772-2040	11/11/10	4265	A	70% STRAW & 20% RECLAIMED COTTON FIBER BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	HYDRA CX2	NORTH AMERICAN GREEN 800/772-2040	05/14/09	3532	A	BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE	SOIL GUARD	MAT, INC. 888/477-3028 (WAS WEYERHAEUSER UNTIL 12/99)	11/09/95	1403	A	MADE OF FIR AND HEMLOCK. BONDED FIBER MATRIX. HYDRAULICALLY APPLIED. BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE HYDRAULICALLY APPLIED	BINDEX BFM	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4563	A	HYDRAULICALLY APPLIED WOOD FIBER BIODEGRADABLE
00280.14E	MATTING - TYPE D SLOPE HYDRAULICALLY APPLIED	FLEXTERRA FGM	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	01/08/09	3319	A	HYDRAULICALLY APPLIED WOOD FIBER BIODEGRADABLE

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00280.14E	MATTING - TYPE E FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET SC 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/13/15	4846	A	BIODEGRADABLE
00280.14E	MATTING - TYPE E FLEXIBLE CHANNEL LINER	EXCEL CS-3 ALL NATURAL	WESTERN EXCELSIOR 800/987-4009 GEOTEK 360/750-1955	02/08/07	3397	A	70% WHEAT STRAW & 30% COCONUT. WITH JUTE SCRIM BIODEGRADABLE
00280.14E	MATTING - TYPE E FLEXIBLE CHANNEL LINER	KOIRMAT 700	NEDIA ENTERPRISES 888/725-6999	05/14/09	3718	A	BIODEGRADABLE
00280.14E	MATTING - TYPE E FLEXIBLE CHANNEL LINER	NORTH AMERICAN GREEN C 125BN	NORTH AMERICAN GREEN 800/772-2040 ACF WEST 800/878-5115	11/08/07	3565	A	BIODEGRADABLE JUTE COCONUT
00280.14E	MATTING - TYPE E SLOPE	EROSION CONTROL BLANKET C 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	05/01/15	4848	A	BIODEGRADABLE
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	AEC PREMIER STRAW DOUBLE NET	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	01/09/12	4527	A	STRAW
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	AEC PREMIER STRAW/COCONUT	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	01/09/12	3520	A	70% WHEAT STRAW & 30% COCONUT.
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	CURLEX ENFORCER	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/14/02	2637	A	ASPEN EXCELSIOR WITH POLY NETTING ON BOTH SIDES.
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	CURLEX III (STITCHED)	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/12/02	2621	A	ASPEN EXCELSIOR WITH POLY NETTING ON BOTH SIDES.

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00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	ECP-2 POLYPROPYLENE TURF REINFORCEMENT MAT (TRM)	EAST COAST EROSION BLANKETS 610/488-8496 LAYFIELD COPORATION 800/796-6868	02/13/15	4852	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	ECP-3 POLYPROPYLENE TURF REINFORCEMENT MAT (TRM)	EAST COAST EROSION BLANKETS 610/488-8496 LAYFIELD COPORATION 800/796-6868	02/13/15	4853	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET EX 32	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4841	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET SC 32	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/13/15	4849	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET P 42	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4850	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET SC 32 BD	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/13/15	4846	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET C 32	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4847	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET PC 42	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/20/15	4851	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EXCEL CC-4	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	02/08/07	3399	A	COCONUT FIBER

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00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EXCEL PP5-10	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	12/14/06	3304	A	POLYFIBER
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EXCEL PP5-12	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	02/08/07	3401	A	SYNTHETIC FIBERS
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EXCEL PP5-8	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	02/08/07	3400	A	POLY FIBERS
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	EXCEL SD-3	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	02/08/07	3398	A	ASPEN EXCELSIOR
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	GREEN ARMOR SYSTEM 7020	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	05/10/18	5124	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	KOIRMAT 700	NEDIA ENTERPRISES 888/725-6999	05/14/09	3718	A	
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	LANDLOK 435	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC 503/771-5115	10/29/12	4544	A	TURF REINFORCEMENT MAT
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	LANDLOK 450	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC 503/771-5115	10/29/12	4545	A	TURF REINFORCEMENT MAT
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	LANDLOK C2	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC 503/771-5115	10/29/12	4543	A	COCONUT FIBER

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00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	LANDLOK CS2	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC 503/771-5115	10/29/12	4542	A	70% WHEAT STRAW 30% COCONUT FIBER
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	LANDLOK S2	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC 503/771-5115	10/29/12	4541	A	WHEAT STRAW
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	NORTH-AMERICAN GREEN C125BN	NORTH AMERICAN GREEN 800/772-2040 ACF WEST 800/878-5115	11/08/07	3565	A	BIODEGRADABLE JUTE COCONUT
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	NORTH-AMERICAN GREEN C350	NORTH AMERICAN GREEN 800/772-2040 ACF WEST 800/878-5115	07/10/97	1378	A	COCONUT
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	NORTH-AMERICAN GREEN S150 STRAW MATS	NORTH AMERICAN GREEN 800/772-2040 OR 812/687-6632 ACF WEST 800/878-5115	03/15/89	297	A	WHEAT STRAW
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	RECYCLEX - TRM	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/09/06	2618	A	ARTIFICIAL FIBER (SODA BOTTLES)
00280.14E	MATTING - TYPE F FLEXIBLE CHANNEL LINER	T-RECS HIGH PERFORMANCE TRM	EAST COAST EROSION CONTROL 610/488-8496	05/03/13	4617	A	
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	CURLEX ENFORCER	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/14/02	2637	A	ASPEN EXCELSIOR WITH POLY NETTING ON BOTH SIDES.
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	ECP-2 POLYPROPYLENE TURF REINFORCEMENT MAT (TRM)	EAST COAST EROSION BLANKETS 610/488-8496 LAYFIELD COPORATION 800/796-6868	02/13/15	4852	A	

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00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	ECP-3 POLYPROPYLENE TURF REINFORCEMENT MAT (TRM)	EAST COAST EROSION BLANKETS 610/488-8496 LAYFIELD COPORATION 800/796-6868	02/13/15	4853	A	
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET EX 32	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4841	A	
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET P 42	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4850	A	
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET PC 42	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/20/15	4851	A	
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	EXCEL PP5-10	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	12/14/06	3304	A	POLYFIBER
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	EXCEL PP5-12	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	02/08/07	3401	A	SYNTHETIC FIBERS
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	EXCEL PP5-8	WESTERN EXCELSIOR 800/967-4009 GEOTEK 360/750-1955	02/08/07	3400	A	POLY FIBERS
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	GREEN ARMOR SYSTEM 7020	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	05/10/18	5124	A	MUST BE VEGETATED PER DATA SHEET TO MEET SHEAR STRENGTH SPECIFICATIONS
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	KOIRMAT 700	NEDIA ENTERPRISES 888/725-6999	05/14/09	3718	A	

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00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	RECYCLEX - TRM	AMERICAN EXCELSIOR 888/352-9682 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/09/06	2618	A	ARTIFICIAL FIBER (SODA BOTTLES)
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	RECYCLEX TRM-V	AMERICAN EXCELSIOR 888/352-9682 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	01/09/12	4528	A	TURF REINFORCEMENT MAT PERMANENT 100% RECYCLED
00280.14E	MATTING - TYPE G FLEXIBLE CHANNEL LINER	T-RES HIGH PERFORMANCE TRM	EAST COAST EROSION CONTROL 610/488-8496	02/13/15	4617	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	ARMORFLEX CLOSED CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	01/10/08	3590	A	SUBJECT TO APPROVAL BY NATURAL RESOURCE AGENCIES AT DESIGN. CONCRETE BLOCKS
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	ARMORFLEX OPEN CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	02/14/08	3575	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	ARMORFLEX TAPERED CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	02/14/08	3591	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	ECP-2 POLYPROPYLENE TURF REINFORCEMENT MAT (TRM)	EAST COAST EROSION BLANKETS 610/488-8496 LAYFIELD COPORATION 800/796-6868	02/13/15	4852	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	ECP-3 POLYPROPYLENE TURF REINFORCEMENT MAT (TRM)	EAST COAST EROSION BLANKETS 610/488-8496 LAYFIELD COPORATION 800/796-6868	02/13/15	4853	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET P42 TRM	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC	11/13/08	3701	A	

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00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET PC 42	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	02/20/15	4851	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	EROSION CONTROL BLANKET P 42	EROSION CONTROL BLANKET 866/317-3346 ACF WEST INC 503/771-5115	12/16/14	4850	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	EXCEL PP5-10	WESTERN EXCELSIOR 800/987-4009 GEO TK 360/750-1955	12/14/06	3304	A	POLYFIBER
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	EXCEL PP5-12	WESTERN EXCELSIOR 800/987-4009 GEO TK 360/750-1955	02/08/07	3401	A	SYNTHETIC FIBERS
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	EXCEL PP5-8	WESTERN EXCELSIOR 800/987-4009 GEO TK 360/750-1955	02/08/07	3400	A	POLY FIBERS
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	GREEN ARMOR SYSTEM 7020	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	05/10/18	5124	A	MUST BE VEGETATED PER DATA SHEET TO MEET SHEAR STRENGTH SPECIFICATIONS
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	LANDLOK 1051	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC 503/771-5115	10/29/12	4546	A	TURF REINFORCEMENT MAT
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	PYRAMAT	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC 503/771-5115	10/29/12	4547	A	TURF REINFORCEMENT MAT
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	RECYCLEX - TRM	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/09/06	2618	A	ON THE TEXAS QPL. ARTIFICIAL FIBER (SODA BOTTLES)

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00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	RECYCLEX TRM-V	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	01/09/12	4528	A	
00280.14E	MATTING - TYPE H FLEXIBLE CHANNEL LINER	T-RES HIGH PERFORMANCE TRM	EAST COAST EROSION CONTROL 610/488-8496	02/13/15	4617	A	
00280.14E	SLOPE MATTING TYPE B & D	GEOJUTE PLUS	BELTON INDUSTRIES INC 800/225/4099 ACF WEST INC 503/771/5115	06/30/11	2490	Q	NOT FOR USE AS TYPE A & C
00280.15A	CHECK DAM, TYPE 2	BMH-STRAW WATTLE W/NATURAL FIBER BIO-DEGRADABLE NETTING (BURLAP OR TENCEL)	BLUE MOUNTAIN HAY, LLC 541/988-8565	11/09/20	5301	A	BIODEGRADABLE NETTING (BURLAP OR TENCEL)
00280.15A	CHECK DAM, TYPE 3	BIO FILTER BAG	CITY OF ROSES DISPOSAL AND RECYCLING INC. 503/849-8881	11/12/09	2430	A	NOT BIO-DEGRADABLE SHORT TERM WAS NAMED GRABHORN BIO FILTER BAG
00280.15A	CHECK DAM, TYPE 3	CURLEX SEDIMENT LOG	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	05/08/08	2624	A	NOT BIO-DEGRADABLE
00280.15A	CHECK DAM, TYPE 3	CURLEX SFW WATTLES	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	02/13/15	4863	A	NOT BIO-DEGRADABLE
00280.15A	CHECK DAM, TYPE 3	FILTREXX FILTERSOXX DITCHCHEXX	FILTREXX INTERNATIONAL 440/926-2607	12/08/05	3257	A	NOT BIO-DEGRADABLE
00280.15A	CHECK DAM, TYPE 3	RICE STRAW FIBER ROLL	KRISTAR ENTERPRISES 800/579-8819	11/09/06	2634	A	AVAILABLE.PHOTO OR BIODEGRADABLE NETTING

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00280.15A	CHECK DAM, TYPE 3	SILTRAP CHECK BAG	HIGHWAY FUEL 503/363-6444	10/13/20	5280	A	
00280.15A	CHECK DAM, TYPE 4	WOVEN POLYPROPYLENE SANDBAG MODEL: PPB1426T1600	SACRAMENTO BAG CO 800/287-2247 BUSSARD EROSION CONTROL 800/252-2692	07/11/02	2429	A	NOT BIODEGRADEABLE
00280.15A	CHECK DAM, TYPE 5	GEOBALE	GEOHAY 864/472-7000	12/13/07	3579	A	NOT BIO-DEGRADEABLE
00280.15A	CHECK DAM, TYPE 5	GEOFILTER	GEOHAY 864/472-7000	12/13/07	3580	A	NOT BIO-DEGRADEABLE
00280.15A	CHECK DAM, TYPE 5	GEO-RIDGE	NILEX 303/766-2000 ACF WEST 800/878-5115	04/14/05	2357	A	OK FOR REDUCING VELOCITIES, BUT NOT AS A CHECK DAM ALONE. USE WITH A MATTING NOT BIO-DEGRADEABLE
00280.15A	CHECK DAM, TYPE 5	TRIANGULAR SILT DIKE	TRIANGULAR SILT DIKE CO, INC. REP. JASON ROACH 405/741-7406 CSI GEOSYNTHETICS 800/426-7976	09/13/01	1592	A	GEOTEXTILE FABRIC AND URETHANE FOAM. NOT BIO-DEGRADEABLE
00280.15A	CHECK DAM, TYPE: OTHER	EARTHSAVER RICE STRAW WATTLES	RH DYCK 530/662-7700 BUSSARD EROSION 541/926-7747	11/09/06	2431	A	NOT BIO-DEGRADEABLE
00280.15D	SLOPE DRAIN, TEMPORARY	TRIANGULAR SILT DIKE	TRIANGULAR SILT DIKE CO, INC. REP. JASON ROACH 405/741-7406 CSI GEOSYNTHETICS 800/426-7976	09/13/01	1592	A	APPEARS TO BE A SUITABLE SUBSTITUTE FOR STRAW BALES OR SAND BAGS.
00280.15F	COMPOST FILTER SOCK	E-TUBE FILTER SOCK FABRIC	SOIL-TEK ETUBE FILTER SOCK PRODUCTS 515/480-0873	08/13/14	4761	A	FABRIC FOR SEDIMENT BARRIER NOT FULLY BIODEGRADABLE PHOTO-DEGRADABLE

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00280.15F	COMPOST FILTER SOCK	FILTREXX SILTSOXX BIOSOXX	FILTREXX 404/667-8393	10/24/19	5219	A	BIO-DEGRADABLE
00280.15F	COMPOST FILTER SOCK	FILTREXX SILTSOXX WITH NATURAL PLUS MESH BIODEGRADABLE	FILTREXX 404/667-8393	12/28/20	5330	A	BIO-DEGRADABLE
00280.16D	INLET PROTECTION TYPE 10	CURB INLET SEDIMENT DAM	CARDWELL; 541/688-7609 FAMILIAN NW 800/456-8611	10/10/02	2203	A	DESIGNED FOR CURBED INLET PROTECTION. NEED TO MONITOR.
00280.16D	INLET PROTECTION - TYPE 1	BASIN WORK'R ECO	MIKE'S PRODUCTS 503/256-5607	07/24/15	4885	A	
00280.16D	INLET PROTECTION - TYPE 1	MIKE'S PROD POCKETD SILT FENCE	MIKE'S PRODUCTS 503/256-5607 RESPONSIVE SUPPLY 503/804-7860	04/08/10	3996	A	
00280.16D	INLET PROTECTION - TYPE 1 CURB	DP DRAIN TOPPER CURB	DP 208/270-1225	09/30/20	5292	A	CURB
00280.16D	INLET PROTECTION - TYPE 3	BASIN WORK'R ECO NO FRAME	MIKE'S PRODUCTS 503/256-5607	07/24/15	4885	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL AND MONITOR PER MFG INSTRUCTIONS
00280.16D	INLET PROTECTION - TYPE 3	DANDY CURB BAG SURFACE AND CURB INLET	DANDY PRODUCTS, INC 800/591-2284 SPILL CONTROL, INC 800/300-1649	11/17/14	4814	A	DESIGNED FOR 250 GPM/FTSQ VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL AND MONITOR PER MFG INSTRUCTIONS
00280.16D	INLET PROTECTION - TYPE 3	DANDY CURB SACK SURFACE AND CURB INLET	DANDY PRODUCTS, INC 800/591-2284 SPILL CONTROL, INC 800/300-1649	11/17/14	4810	A	DESIGNED FOR 250 GPM/FTSQ VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL AND MONITOR PER MFG INSTRUCTIONS

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00280, 16D	INLET PROTECTION - TYPE 3	DANDY SACK NO FRAME	DANDY PRODUCTS, INC 800/591-2284 SPILL CONTROL, INC 800/300-1649	11/17/14	4812	A	DESIGNED FOR 250 GPM/FTSQ VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL AND MONITOR PER MFG INSTRUCTIONS
00280, 16D	INLET PROTECTION - TYPE 3	DRAIN BAGS NO FRAME	SPILL CONTROL, INC 800/300-1649	10/24/12	4539	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	DRAIN WEB DW4000REC 36"X24" FRAMED	ENVIROMET 360/944-6100	12/20/17	5103	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	DREAM STREAM GCDOTFB-3624 NO FRAME 36"X36"	THE GATE COMPANY 360/273-5802 MANARK PRODUCTS 360/790-9271	10/14/10	4174	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	FLEXSTORM INLET FILTER FRAMED	INLET & PIPE PROTECTION 866/287-8655 ADVANCED DRAINAGE SYSTEMS 800/821-6710	04/08/10	3965	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	FRAME & FILTER ASSEMBLY-DOME POLYMER FRAME	SILT SAVER, INC 770/388-7818 FERGUSON 541/618-7418	12/20/17	5101	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	HI-FLOW SILTSACK	ACF ENVIRONMENTAL DAVID KELLY 800/448-3636 DIST.: ACF WEST, INC. MELISSA HURLEY 503/771-5115	09/13/01	1164	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL AND MONITOR PER MFG INSTRUCTIONS REBAR USED INPLACE OF FRAME
00280, 16D	INLET PROTECTION - TYPE 3	MIKE'S PRODUCTS BASIN WORKR FRAMED	MIKE'S PRODUCTS 503/256-5607 RESPONSIVE SUPPLY 503/804-7860	04/08/10	3995	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	NON-WOVEN SILT SACK	ACF ENVIRONMENTAL DAVID KELLY 800/448-3636	02/10/05	2958	A	VERIFY PRODUCT SIZE VS INLET SIZE INSTALL AND MONITOR PER MFG INSTRUCTIONS REBAR USED INPLACE OF FRAME

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00280, 16D	INLET PROTECTION - TYPE 3	REGULAR FLOW SILTSACK	ACF ENVIRONMENTAL 804/271/2363 ACF WEST 800/878/5115	08/01/11	4442	A	VERIFY PRODUCT SIZE VS INLET SIZE INSTALL AND MONITOR PER MFG INSTRUCTIONS REBAR USED INPLACE OF FRAME
00280, 16D	INLET PROTECTION - TYPE 3	STORM DRAIN DEFENDER DD300REC 16"X20 TO 24"X36 FRAMED	ENVIROMET 360/944-6100	12/20/17	5102	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	STORM SENTINEL MODEL 4320NO 48" X 36" NO FRAME	ENPAC CORPORATION 800/936-7229 PAT GOTHRO (ENPAC)253/288-9215 FNW- DOUG MYERS 253/437-5141 FNW- MIKE STEWART 503/240-6747	04/29/14	4745	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED NO OVERFLOW
00280, 16D	INLET PROTECTION - TYPE 3	STORM SENTINEL MODEL 4326NO 60" X 60" NO FRAME	ENPAC CORPORATION 800/936-7229 PAT GOTHRO (ENPAC)253/288-9215 FNW- DOUG MYERS 253/437-5141 FNW- MIKE STEWART 503/240-6747	04/29/14	4746	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED NO OVERFLOW
00280, 16D	INLET PROTECTION - TYPE 3	STORM SENTINEL MODEL 4341 NO 36" X 24" FRAMED	ENPAC CORPORATION 800/936-7229 PAT GOTHRO (ENPAC)253/288-9215 FNW- DOUG MYERS 253/437-5141 FNW- MIKE STEWART 503/240-6747	04/29/14	4747	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED NO OVERFLOW
00280, 16D	INLET PROTECTION - TYPE 3	STORM SENTINEL MODEL 4348 16"X20" TO 28"X36" FRAMED	ENPAC CORPORATION 800/936-7229 PAT GOTHRO (ENPAC)253/288-9215 FNW- DOUG MYERS 253/437-5141 FNW- MIKE STEWART 503/240-6747	10/14/10	4119	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	STORMGUARD FRAMED	SPILL CONTROL INC 800/300-1649	12/24/12	4538	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	STREAMGUARD NO FRAME	FOSS INTERNATIONAL AND INFRASTRUCTURE SERVICES CO. JOE SMITH 206/378-4101	10/11/01	1600	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3	ULTRA-DRAIN GUARD ADJ. FRAME MOD. #8930	ULTRATECH INTERNATIONAL 800/353-1611 EXT 211	05/02/13	4611	A	ADJUSTABLE FRAME INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED

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00280, 16D	INLET PROTECTION - TYPE 3	UL TRA-DRAIN GUARD RE-USABLE NO FRAME	ULTRATECH INTERNATIONAL 800/353-1611 EXT 211	11/09/06	3308	A	VERIFY PRODUCT SIZE VS INLET SIZE. INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 3 24" X 36" MAX	UL TRA-DRAIN GUARD ECONOMY FRAME ADJ. FRAME MOD. #8934	ULTRATECH INTERNATIONAL 800/353-1611 EXT 211	11/21/19	5224	A	ADJUSTABLE FRAME INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED OVERFLOW OPENINGS
00280, 16D	INLET PROTECTION - TYPE 3 GAS & OIL	UL TRA-DRAIN GUARD OIL & SEDIME NO FRAME	ULTRATECH INTERNATIONAL 800/353-1611 EXT 211	01/10/08	3309	A	FOR GAS & OIL. VERIFY PRODUCT SIZE VS INLET SIZE INSTALL PER MFG INSTRUCTIONS. MONITOR & MAINTAIN AS REQUIRED
00280, 16D	INLET PROTECTION - TYPE 4	BIO FILTER BAG	CITY OF ROSES DISPOSAL AND RECYCLING INC. 503/849-8881	11/12/09	2430	A	NOT BIO-DEGRADEABLE WAS NAMED GRABHORN BIO FILTER BAG
00280, 16D	INLET PROTECTION - TYPE 4	SILTRAP BIO BAGS	HIGHWAY FUEL 503/363-6444	11/13/08	3697	A	PRESIZED WOOD CHIPS IN POLY MESH BAG.
00280, 16D	INLET PROTECTION - TYPE 4	SLOPEGARD 3	KRISTAR ENTERPRIS 800/579-8819	11/09/06	2633	A	
00280, 16D	INLET PROTECTION - TYPE 6 OTHER	GEOFILTER	GEOHAY 864/472-7000	12/13/07	3580	A	
00280, 16D	INLET PROTECTION - TYPE 7	CURLEX SEDIMENT LOG	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	05/08/08	2624	A	
00280, 16D	INLET PROTECTION - TYPE 7	CURLEX SPW WATTLES	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	02/13/15	4863	A	

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00280, 16D	INLET PROTECTION - TYPE 7	DREAM STREAM GCDOTFB-3624	THE GATE COMPANY 360/273-5802 MANARK PRODUCTS 360/790-9271	10/14/10	4174	A	NEED TO MONITOR.
00280, 16D	INLET PROTECTION - TYPE 7	ENVIRO STRAW 9" STRAW WATTLE	ENVIRO-STRAW 208/270-1225	01/21/14	4703	A	
00280, 16D	INLET PROTECTION - TYPE 7	FILTREXX FILTERSOXX INLETSOXX	FILTREXX INTERNATIONAL 440/926-2607	12/08/05	3258	A	
00280, 16D	INLET PROTECTION - TYPE 7	FILTREXX FILTERSOXX SILTSOXX	FILTREXX INTERNATIONAL 440/926-2607	06/11/09	3256	A	USE MFG APPROVED COMPOST MEDIA & ADDITIVES & MEET ODOT SPECS.
00280, 16D	INLET PROTECTION - TYPE 7	SS FIBER ROLLS (9X25) UV	EROSION CONTROL SERVICES MARK CLELLAND 208/337-4620	04/08/10	3928	A	
00280, 16E	SEDIMENT BARRIER, OTHER	DIRTBAG 55	ACF ENVIRONMENTAL DAVID KELLY 800/448-3636 DIST.: ACF WEST, INC. MELISSA HURLEY 503/771-5115	02/12/09	1886	A	THIS BAG IS 180" BY 180". AND TESTED TO 100 LB/IN2. APPLICATION: DOWNSTREAM END OF PIPE.
00280, 16E	SEDIMENT BARRIER, OTHER	FILTREXX FILTERSOXX SILTSOXX	FILTREXX INTERNATIONAL 440/926-2607	06/11/09	3256	A	USE MFG APPROVED COMPOST MEDIA & ADDITIVES & MEET ODOT SPECS.
00280, 16E	SEDIMENT BARRIER, TYPE 1	ENVIRO STRAW 9" STRAW WATTLE	ENVIRO-STRAW 208/270-1225	01/21/14	4703	A	
00280, 16E	SEDIMENT BARRIER, TYPE 3	AEC PREMIER STRAW WATTLES	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/09/06	3327	A	

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00280.16E	SEDIMENT BARRIER, TYPE 3	CAL VISTA RICE STRAW WATTLE 8 X 25	CAL VISTA EROSION CONTROL JERRY SHADINGER 530/476-0706	12/11/08	3526	A	
00280.16E	SEDIMENT BARRIER, TYPE 3	CSW STRAW WATTLES	CALIFORNIA STRAW WORKS 916/453-1456 ACF WEST 503/771-5115	07/13/06	1794	A	DO NOT USE IN WATER. NOT RE-JESABLE. DO NOT USE FOR OVERLAND SHEET FLOW. WAS KEY TO GREEN STRAW WATTLES
00280.16E	SEDIMENT BARRIER, TYPE 3	EARTHSAVER 8.25x25 WHEAT STRAW WATTLE	EARTHSAVERS EROSION CONTROL 530/662-7700	05/31/12	4410	A	PHOTODEGRADABLE
00280.16E	SEDIMENT BARRIER, TYPE 3	EARTHSAVER RICE STRAW WATTLES	RH DYCK 530/662-7700 BUSSARD EROSION 800/252-2692 CSI GEOSYNTHETICS 360/699-1426	07/11/02	2431	A	
00280.16E	SEDIMENT BARRIER, TYPE 3	IEC 9" S STRAW WATTLE	IDAHO EROSION CONTROL 208/329-9120 PACIFIC GEOSOURCE 503/261-3515	10/14/10	4184	A	
00280.16E	SEDIMENT BARRIER, TYPE 3	OSW-NATURAL NET STRAW WATTLE	OREGON STRAW WATTLE 503/519-0848	09/10/18	5151	A	WHEAT/RYE STRAW BIODEGRADABLE
00280.16E	SEDIMENT BARRIER, TYPE 3	OSW-R9 STRAW WATTLE	OREGON STRAW WATTLE 503/519-0848	12/11/08	3722	A	RYE STRAW
00280.16E	SEDIMENT BARRIER, TYPE 3	RICE STRAW FIBER ROLL	KRISTAR ENTERPRIS 800/579-8819	11/09/06	2634	A	
00280.16E	SEDIMENT BARRIER, TYPE 3	SEDIMENTSTOP	NORTH AMERICAN GREEN 800/772-2040 ACF WEST 800/878-5115	07/13/06	3286	A	

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00280.16E	SEDIMENT BARRIER, TYPE 3	SLOPEGARD 1	KRISTAR ENTERPRIS 800/579-8819	11/09/06	2632	A	APPEARS OK AS TYPE 3 SEDIMENT BARRIER.
00280.16E	SEDIMENT BARRIER, TYPE 3	SOIL STOPPERS RICE STRAW WATTL 9" WATTLE	SOIL STOPPERS 209/993-2109	03/08/07	3439	A	
00280.16E	SEDIMENT BARRIER, TYPE 3	SS FIBER ROLLS (9X25) UV	EROSION CONTROL SERVICES MARK CLELLAND 208/337-4620	04/08/10	3928	A	TYPE 3.
00280.16E	SEDIMENT BARRIER, TYPE 3	STRAW WATTL 9"	KT MANUFACTURING 208/576-3301	09/26/18	5163	A	PHOTODEGRADABLE 6-12 MONTHS OR 12-18 MONTHS AVAILABLE
00280.16E	SEDIMENT BARRIER, TYPE 3	WESTERN FIBER 9" STRAW WATTLE	WESTERN FIBER CO. 661/854-5556 OR 310/939-9254	11/13/08	3710	A	WHEAT STRAW.
00280.16E	SEDIMENT BARRIER, TYPE 3 STRAW WATTLE	PERMALOK/PERMEATEX STRAW WATTL	NORTHWEST LININGS & GEOTEXTILE 253/867-5366	10/14/10	4194	A	RICE STRAW
00280.16E	SEDIMENT BARRIER, TYPE 4	WOVEN POLYPROPYLENE SANDBAG MODEL: PPB1426T1600	SACRAMENTO BAG CO 800/287-2247 BUSSARD EROSION CONTROL 800/252-2692	07/11/02	2429	A	
00280.16E	SEDIMENT BARRIER, TYPE 7	ENVIRONMENTAL BARRICADE	BONAR PLASTICS 360/887-2230 ENVIRONMENTAL BARRICADES RICHARD STRIEFEL 800/656-1296	06/14/01	2401	A	
00280.16E	SEDIMENT BARRIER, TYPE 7	GEOBALE	GEOHAY 864/472-7000	12/13/07	3579	A	

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00280.16E	SEDIMENT BARRIER, TYPE 7	GEOFILTER	GEOHAY 864/472-7000	12/13/07	3580	A	
00280.16E	SEDIMENT BARRIER, TYPE 7	HARD SURFACE GUARD	ERTEC ENVIRONMENTAL SYSTEMS 866/521-0724	11/05/18	5146	A	
00280.16E	SEDIMENT BARRIER, TYPE 7	PROMATTLE	ERTEC ENVIRONMENTAL SYSTEMS 866/521-0724	11/05/18	5144	A	
00280.16E	SEDIMENT BARRIER, TYPE 7	S-FENCE	ERTEC ENVIRONMENTAL SYSTEMS 866/521-0724	11/05/18	5145	A	
00280.16E	SEDIMENT BARRIER, TYPE 7	TRIANGULAR SILT DIKE	TRIANGULAR SILT DIKE CO, INC. REP: JASON ROACH 405/741-7406 CSI GEOSYNTHETICS 800/426-7976	09/13/01	1592	A	DO NOT USE IN WATER. RE-USEABLE. SUITABLE SUBSTITUTION FOR SAND BAGS.
00280.16E	SEDIMENT BARRIER, TYPE 8	SILT TRAP BIOFILTER SOCK	HIGHWAY FUEL 503/363-6444	05/12/20	5259	A	BIODEGRADABLE SWITCHGRASS NOT APPROVED NOT REUSABLE. NOT MOVABLE. ONCE PLACED
00280.16F	SEDIMENT MAT	SEDIMAT	INDIAN VALLEY INDUSTRIES 800/659-5111 CSI GEOSYNTHETICS 800/426-7976	06/14/07	1924	A	FOR USE ON DOWNSTREAM END OF OUTLET END OF PIPE.
00280.16K	SEDIMENT CONTROL MATERIAL FLOCCULANT	CHITOSAN LACTATE PASSIVE TREATMENT SOCK/GELFLOC SOCK	SOUND ENVIRONMENTAL CONCEPTS,LLC 206/730-5376	11/14/17	5082	A	
00280.16K	SEDIMENT CONTROL MATERIAL FLOCCULANT	CHITOVAN LIQUID (ACETATE) 1%	DUNGENESS ENVIRONMENTAL 206/730-5370 ACF WEST 800/878-5115 CSI GEOSYNTHETICS 800/426-7976	09/11/10	3837	A	

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00280.16K	SEDIMENT CONTROL MATERIAL FLOCCULENT	CHITOVAN CHITOSAN LACTATE CARTRIDGE	DUNGENESS ENVIRONMENTAL SOLUTIONS, INC 425/481-0600 HANES GEO SOLUTIONS 360/831-3613	10/05/20	5293	A	
00350.00	GEOCELL	ENVIROGRID	GEO PRODUCTS 281/820-5493 CSI GEOSYNTHETICS 800/426-7976	05/08/03	2699	A	POLYETHYLENE CELLULAR CONFINEMENT SYSTEM. ANCHORED WITH J-HOOKS. DESIGNED TO BE FILLED WITH A VARIETY OF ITEMS.
00390.00	SLOPE PROTECTION - TYPE 3	ARMORFLEX CLOSED CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	01/10/08	3590	A	
00390.00	SLOPE PROTECTION - TYPE 3	ARMORFLEX OPEN CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	02/14/08	3575	A	
00390.00	SLOPE PROTECTION - TYPE 3	ARMORFLEX TAPERED CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	02/14/08	3591	A	
00390.00	SLOPE PROTECTION - TYPE 3	HYDRAPAM(L) LIQUID	INNOVATIVE TURF SOLUTIONS 513/317-8311	03/10/11	4318	A	
00398.00	ROCK BOLTS	R1J SOLID REBAR SPIN-LOCK BOLT #R1J	WILLIAMS FORM 800/255-0560 OR 503/285-4548	08/11/11	4452	A	THIS IS MADE W/DOMESTIC STEEL.
00398.00	ROCK BOLTS	WILLIAMS HOLLOW CORE SPIN LOCK #R1H, #R1HT, #R1HG	WILLIAMS FORM 800/255-0560	10/09/03	2891	A	THIS PRODUCT INCLUDES FOREIGN STEEL. USE ONLY WHEN SPECS ALLOW FOREIGN STEEL.
00413.10	CEMENTITIOUS PIPE LINERS (REPAIR MATERIAL)	CENTRI-CAST PIPE REPAIR MORTAR FIVE STAR PRODUCTS	FIVE STAR PRODUCTS, INC 800/243-2206	06/12/18	5066	A	FOR METAL AND CONCRETE CULVERTS REPAIR

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00413.10	CEMENTITIOUS PIPE LINERS (REPAIR MATERIAL)	GEOCAST GEOPOLYMER MORTAR	STANDARD CEMENT MATERIALS, INC 888/278-1337	07/02/18	5123	A	FOR METAL AND CONCRETE CULVERTS REPAIR
00413.10	CEMENTITIOUS PIPE LINERS (REPAIR MATERIAL)	GEOspray GEOPOLYMER	MILLIKEN INFRASTRUCTURE SOLUTIONS, LLC 706/880-5054	04/16/18	5088	A	FOR METAL AND CONCRETE CULVERTS REPAIR
00413.10	CEMENTITIOUS PIPE LINERS (REPAIR MATERIAL)	PERMACAST PL-8.000	AP/M PERMAFORM 800/662-6465	06/14/17	5042	A	FOR METAL AND CONCRETE CULVERTS REPAIR
00433.00	PREFORMED DITCH LINER	SMARTDITCH	PENDA CORPORATION 800/356-7704	08/23/12	3864	Q	CONTACT STANDARDS ENGINEER BEFORE USE
00440.14	PRE-PACKAGED DRY BLENDED CONCRETE	QUIKRETE CRACK RESISTANT CONCRETE MIX	THE QUIKRETE COMPANIES 503/982-4244	02/22/16	4938	A	TO BE USED FOR VISUALLY ACCEPTED WORK ITEMS
00445.00	MISC OPTIONS	TRENCHLESS TECHNOLOGY	NO LIST AT THIS TIME.	01/25/01		Q	ODOT TRENCHLESS TECHNOLOGY ROBERT TREVIS AT 503/986-3382 REHAB & REPLACEMENT OF STORM SEWERS & CULVERTS.
00445.12	ASPHALTIC MASTIC PIPE COATING	HENRY HE906 FLASHMASTER PLUS	HENRY CO. 800/851-1131	09/11/03	2859	A	MEETS AAASHTO M243. SEE ODOT SECTION 00445.12 AND ODOT SECTION 00445.47
00446.00	TRENCH DRAIN - TYPE 1 PREFORMED	POLYCAST 900	POLYCAST TRENCH DRAIN SYSTEM BY HUBBELL 206/484-8236	12/24/12	4267	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 1 PREFORMED	POLYDRAIN CURB RETURN DRAIN ADA GRATE	ABT, INC. 800/438-6057 BRAD SHORT 949/633-6111 NATHAN PAUL 443/956-9471	03/22/19	5194	A	REVIEW WITH STANDARDS ENGINEER FOR USE ON CURB AREAS WITH ADA RAMPS

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00446.00	TRENCH DRAIN - TYPE 1 PERFORMED	Z-888 12"	ZURN INDUSTRIES 800/906-5060 MECHAGENTS 509/249-8050	04/14/11	2245	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 1 PERFORMED	Z-888 HIGH 18"	ZURN INDUSTRIES 800/906-5060 MECHAGENTS 509/249-8050	12/12/12	2245	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 1 PERFORMED, MONOLITHIC	ACO HIGHWAY DRAIN HD200	ACO POLYMERS 888/490-9552 JEFF LIPP 425/770-0176	11/13/08	3650	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	POLYCAST 3000	POLYCAST TRENCH DRAIN SYSTEM BY HUBBELL 206/484-8236	10/12/12	4268	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	POLYCAST 900	POLYCAST TRENCH DRAIN SYSTEM BY HUBBELL 206/484-8236	10/12/12	4267	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	POLYCAST TRENCH DRAIN FP 1200 SERIES	POLYCAST TRENCH DRAIN SYSTEM BY HUBBELL 206/484-8236	10/12/12	4525	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	POLYDRAIN INTERCEPTOR A-67 W/2552 GRATE	ABT, INC. 800/438-6057 BRAD SHORT 949/633-6111 NATHAN PAUL 443/956-9471	12/12/12	4421	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	POLYDRAIN INTERCEPTOR A-67 W/2542 GRATE	ABT, INC. 800/438-6057 BRAD SHORT 949/633-6111 NATHAN PAUL 443/956-9471	12/12/12	4420	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	TRENCH FORMER MHD 8"	ABT, INC. 800/438-6057 BRAD SHORT 949/633-6111 NATHAN PAUL 443/956-9471	12/12/12	4422	A	REVIEW WITH STANDARDS ENGINEER USES FOAM INSERT TO FORM CHANNEL IN CONCRETE

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00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	TRENCH FORMERHMD 12"	ABT, INC. 800/438-8057 BRAD SHORT 949/633-6111 NATHAN PAUL 443/956-9471	12/12/12	4423	A	REVIEW WITH STANDARDS ENGINEER USES FOAM INSERT TO FORM CHANNEL IN CONCRETE
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	Z-882	ZURN INDUSTRIES 800/906-5060 MECHAGENTS 509/249-8050	12/12/12	2900	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	Z-886	ZURN INDUSTRIES 800/906-5060 MECHAGENTS 509/249-8050	06/10/04	2901	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	Z-888 HIGH 12"	ZURN INDUSTRIES 800/906-5060 MECHAGENTS 509/249-8050	12/12/12	2245	A	REVIEW WITH STANDARDS ENGINEER
00446.00	TRENCH DRAIN - TYPE 2 PERFORMED	Z-888 HIGH 18"	ZURN INDUSTRIES 800/906-5060 MECHAGENTS 509/249-8050	12/12/12	2245	A	REVIEW WITH STANDARDS ENGINEER
00470.00	INLET FRAME G-2, G-2M, G-2MA, CG-2	7739Z INLET FRAME G-2 MODEL: 00773911	EJ IRON WORKS Frank Ray 503/550-1828 800/626-4653	06/10/10	3967	A	
00470.00	INLET FRAME G-2, G-2M, G-2MA, CG-2	7739Z1 REVERSIBLE INLET FRM G2 MODEL: 00773913	EJ IRON WORKS Frank Ray 503/550-1828 800/626-4653	06/10/10	3968	A	
00470.00	INLET GRATE	DUCTILE INLET GRATE TYPE 3 I-4501-04	D&L FOUNDRY 509/765-7952	08/27/13	4635	A	DUCTILE IRON
00470.00	INLET GRATE G-1, CG-1	DUCTILE INLET GRATE G-1 I-4503-01	D&L FOUNDRY 509/765-7952	08/27/13	4655	A	

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00470.00	INLET GRATE G-1, CG-1	DUCTILE INLET GRATE G-1 (1/2" ADA Slot) I-4503-02	D&L FOUNDRY 509/765-7952	08/27/13	4656	A	
00470.00	INLET GRATE G-2, G-2M, G-2MA, CG-2	EAST JORDAN INLET GRATE G-2 #00773935	EJ IRON WORKS Frank Ray 503/550-1828 800/626-4653	05/08/08	3617	A	
00470.00	INLET GRATE G-2, G-2M, G-2MA, CG-2	INLET GRATE G-2 I-4500-01	D&L FOUNDRY 509/765-7952	08/27/13	4634	A	DUCTILE IRON
00470.00	MANHOLE FRAME	STANDARD MANHOLE RING A-2111-RR1	D&L FOUNDRY 509/765-7952	09/28/20	5291	A	USES RIMRISER SYSTEM RR-0001 & RR-0058-4
00470.00	MANHOLE ADJUSTING RING	PRORING MH GRADE ADJUSTMENT FINISH RING	CRETEX SPECIALTY PRODUCTS 800/345-3764	12/24/12	4415	A	
00470.00	MANHOLE ADJUSTING RING	PRORING MH GRADE ADJUSTMENT RING	CRETEX SPECIALTY PRODUCTS 800/345-3764	12/24/12	4416	A	
00470.00	MANHOLE ADJUSTING RING	PRORING MH GRADE ADJUSTMENT ANGLR RING	CRETEX SPECIALTY PRODUCTS 800/345-3764	12/24/12	4417	A	
00470.00	MANHOLE COVER	16 HOLE 3 BOLT MANHOLE COVER A-2107-12	D&L FOUNDRY 509/765-7952	08/27/13	4644	A	
00470.00	MANHOLE COVER	16 HOLE MANHOLE COVER A-2107-01 A-2107-01	D&L FOUNDRY 509/765-7952	08/27/13	4642	A	

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00470.00	MANHOLE COVER	2 HOLE 3 BOLT MANHOLE COVER A-2107-14	D&L FOUNDRY 509/765-7952	08/27/13	4645	A	
00470.00	MANHOLE COVER	2 HOLE SUB/STAN MANHOLE COVER A-2107-03	D&L FOUNDRY 509/765-7952	08/27/13	4643	A	
00470.00	MANHOLE COVER	EAST JORDAN 2603C3 #00260420	EJ IRON WORKS Frank Ray 503/550-1828 800/626-4653	05/08/08	3615	A	
00470.00	MANHOLE COVER	GMI 26" COMPOSITE COVER & FRAME	GMI COMPOSITES, INC 811/755-1611	12/24/10	4290	A	
00470.00	MANHOLE COVER	WATER TIGHT SUB/STAN MANHOLE COVER A-2107-15	D&L FOUNDRY 509/765-7952	08/27/13	4646	A	WATER TIGHT
00470.00	MANHOLE FRAME	3 BOLT STANDARD MANHOLE RING A-2108-R3	D&L FOUNDRY 509/765-7952	08/27/13	4650	A	
00470.00	MANHOLE FRAME	3 BOLT STANDARD MANHOLE RING A-2107-R3	D&L FOUNDRY 509/765-7952	08/27/13	4648	A	
00470.00	MANHOLE FRAME	EAST JORDAN 2603Z1 #00260315	EJ IRON WORKS Frank Ray 503/550-1828 800/626-4653	05/08/08	3616	A	
00470.00	MANHOLE FRAME	GMI 26" COMPOSITE COVER & FRAME	GMI COMPOSITES, INC 811/755-1611	12/24/10	4290	A	LOCKING MANHOLE FRAME AND COVE USED TOGETHER

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00470.00	MANHOLE FRAME	STANDARD BOLTED GASKETED MANHOLE RING A-2110-R3	D&L FOUNDRY 509/765-7952	08/08/14	4774	A	WATER TIGHT
00470.00	MANHOLE FRAME	STANDARD BOLTED MANHOLE RING A-2110-R2	D&L FOUNDRY 509/765-7952	08/08/14	4773	A	
00470.00	MANHOLE FRAME	STANDARD MAN HOLE RING A-2111-R5	D&L FOUNDRY 509/765-7952	10/19/18	5037	A	3 BOLT LUGS WITH 1/4" O-RING
00470.00	MANHOLE FRAME	STANDARD MAN HOLE RING A-2111-R3	D&L FOUNDRY 509/765-7952	10/19/18	5036	A	3 BOLT LUGS
00470.00	MANHOLE FRAME	STANDARD MAN HOLE RING A-2111-R1	D&L FOUNDRY 509/765-7952	10/19/18	5035	A	
00470.00	MANHOLE FRAME	STANDARD MANHOLE RING A-2110-R1	D&L FOUNDRY 509/765-7952	08/08/14	4772	A	
00470.00	MANHOLE FRAME	STANDARD MANHOLE RING A-2108-R1	D&L FOUNDRY 509/765-7952	08/27/13	4649	A	
00470.00	MANHOLE FRAME	SUBURBAN MANHOLE RING A-2107-R2	D&L FOUNDRY 509/765-7952	08/27/13	4647	A	
00470.00	MANHOLE FRAME	SUBURBAN MANHOLE RING A-2107-RR1	D&L FOUNDRY 509/765-7952	09/28/20	5290	A	USES RIMRISER SYSTEM RR-0001 & RR-0058-4

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00470.00	MANHOLE FRAME MANHOLE COVER	CAP 30 FRAME AND COVER	CAP COMPOSITE ACCESS PRODUCTS 844/3442271 THE HOOS OBRUCE 503/9513895	01/25/19	5157	A	MOLDED FIBERGLASS REINFORCED THERMOSET-PLASTIC.
00470.00	MANHOLE RISER RING	1 1/2" PAVING RISER G-2051-R1	D&L FOUNDRY 509/765-7952	08/27/13	4637	A	
00470.00	MANHOLE RISER RING	1 1/4" PAVING RISER G-2050-R1	D&L FOUNDRY 509/765-7952	08/27/13	4636	A	
00470.00	MANHOLE RISER RING	2 1/2" PAVING RISER G-2052-R2	D&L FOUNDRY 509/765-7952	08/27/13	4639	A	
00470.00	MANHOLE RISER RING	2" PAVING RISER G-2052-R1	D&L FOUNDRY 509/765-7952	08/27/13	4638	A	
00470.00	MANHOLE RISER RING	3" PAVING RISER G-2053-R1	D&L FOUNDRY 509/765-7952	08/27/13	4640	A	
00470.00	MANHOLE RISER RING	4" PAVING RISER G-2054-R1	D&L FOUNDRY 509/765-7952	08/27/13	4641	A	
00470.00	MANHOLE RISER RING	INFRA-RISER	EJ IRON WORKS Frank Ray 503/550-1828 800/626-4653	01/10/08	3546	A	RECYCLED RUBBER COMPOSITE.
00470.00	MANHOLE RISER RING	LADTECH HDPE M.H. RISER RING	LADTECH - DWIGHT 877/235-7464 GREG BRUCE 503/951-3895	09/10/98	1730	A	RECYCLED HDPE. MFG SAYS SPECIAL GROOVE IS NECESSARY TO FIT OUR MUD RINGS. SEE GREG BRUCE

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00470.00	MANHOLE RISER RING	WHIRLYGIG MANHOLE COLLAR	WHIRLYGIG COMPANY 800/307-4263	04/13/00	2156	A	CUSTOM TRIMMED THERMOPLASTIC CONCRETE FORM SYSTEM.
00470.00	MANHOLE, PLASTIC NON-TRAFFIC AREAS	RHINO HDPE MANHOLES	RHINO USA OF OREGON 877/857-4817 OR 541/269-9964	06/14/01	2208	A	HDPE POLYETHYLENE, TYPE III, CAT 3, CLASS B, PER ASTM D3350 FOR NON TRAFFIC AREAS ONLY.
00470.00	PVC INLET	NYLOPLAST DRAIN BASIN	NYLOPLAST, A DIV OF ADS DEREK VON CANNON 801/419-1720 866/888-8479	02/08/07	2786	A	NON-WHEEL TRACK USING APPROVED FRAME/GRATES, NO INTERSTATES, MIN COVER: 2', MAX DEPTH: 8', 18", 24", & 30" DIA ONLY.
00470.00	PVC INLET CG-2	NYLOPLAST CURB INLET CG-2	NYLOPLAST, A DIV OF ADS DEREK VON CANNON 801/419-1720 866/888-8479	02/08/07	2787	A	NON-WHEEL TRACK USING APPROVED FRAME/GRATES, NO INTERSTATES, MIN COVER: 2', MAX DEPTH: 8', 18", 24", & 30" DIA ONLY.
00470.00	PVC INLET G-1 & G-2	NYLOPLAST ROAD & HWY BASIN	NYLOPLAST, A DIV OF ADS DEREK VON CANNON 801/419-1720 866/888-8479	02/08/07	2785	A	NON-WHEEL TRACK USING APPROVED FRAME/GRATES, NO INTERSTATES, MIN COVER: 2', MAX DEPTH: 8', 18", 24", & 30" DIA ONLY.
00470.42	BOLT GRADE ADJUSTMENT SYSTEM	RIMRISER (#RR-0002 JACK NUT) (#RR-0034-5 JACK SCREW)	RIMRISER 360/831-0734 COLUMBIA PRECAST PRODUCTS 360/335-8400	09/28/20	5289	A	USED IN CONCRETE PRECAST SYSTEMS
00512.14	SYNTHETIC SLURRY	BIG-FOOT SLURRY SYSTEM	MATRIX CONSTRUCTION PRODUCTS 630/364-3231	09/22/17	5067	A	
00512.14	SYNTHETIC SLURRY	SHORE PAC	CETCO CONSTRUCTION DRILLING 800/527-9948 OR 847/392-5800 WAS CALLED SHORE PAC GCV 5/08	08/10/06	3345	A	
00512.14	SYNTHETIC SLURRY	SLURRY PRO CDP	KB INTERNATIONAL 423/266-6964 SINCLAIR 562/403-3559	08/10/06	3343	A	

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00512.14	SYNTHETIC SLURRY	SUPER MUD	PDS COMPANY 562/634-8180	08/10/06	3344	A	
00512.14	SYNTHETIC SLURRY	TERRAGEL	GEO-TECH SERVICES 210/587-4758	08/10/06	3346	A	Was Novagel Name Change 2013
00520.00	PILE TIPS HP10X42	HP77600-B-18# 10"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	3359	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.
00520.00	PILE TIPS HP10X42	HP77750-B 10"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2500	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP10X42	SUPER BITE POINT PAR10T	ASSOCIATED PILE & FITTING 800/526-9047	05/12/11	4364	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP10X42	VERSA STEEL VS310N	VERSA STEEL 800/678-0814	03/13/03	2770	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP10X57	HP77600-B-18# 10"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	3359	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.
00520.00	PILE TIPS HP10X57	VERSA STEEL VS310N	VERSA STEEL 800/678-0814	03/13/03	2770	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X53	HP77600-B-30# 12"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	3360	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.

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00520.00	PILE TIPS HP12X63	HP77750-B 12"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2541	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X63	HP7780-B 12"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2501	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X63	SUPER BITE POINT PAR12T	ASSOCIATED PILE & FITTING 800/526-9047	05/12/11	4365	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X63	VERSA STEEL VS312N	VERSA STEEL 800/678-0814	03/13/03	2771	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X63	HP77600-B-30# 12"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	3360	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X63	SUPER BITE POINT PAR12T	ASSOCIATED PILE & FITTING 800/526-9047	05/12/11	4365	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X63	VERSA STEEL VS312N	VERSA STEEL 800/678-0814	03/13/03	2771	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X74	HP77600-B-30# 12"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	3360	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X74	HP77750-B 12"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2541	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.

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00520.00	PILE TIPS HP12X74	SUPER BITE POINT PAR12T	ASSOCIATED PILE & FITTING 800/526-9047	05/12/11	4365	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X74	VERSA STEEL VS312N	VERSA STEEL 800/678-0814	03/13/03	2771	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X84	HP77600-B-30# 12"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	3360	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.
00520.00	PILE TIPS HP12X84	VERSA STEEL VS312N	VERSA STEEL 800/678-0814	03/13/03	2771	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X102	HP77600-B-46 14"	ASSOCIATED PILE & FITTING 800/526-9047	04/12/07	3471	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X102	HP77750-B 14"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2542	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X102	VERSA STEEL VS314-117N	VERSA STEEL 800/678-0814	03/13/03	2773	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X117	HP77600-B-46 14"	ASSOCIATED PILE & FITTING 800/526-9047	04/12/07	3471	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X117	HP77750-B 14"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2542	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.

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00520.00	PILE TIPS HP14X117	VERSA STEEL VS314-117N	VERSA STEEL 800/678-0814	03/13/03	2773	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X73	HP77600-B 14"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2502	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X73	HP77600-B-46 14"	ASSOCIATED PILE & FITTING 800/526-9047	04/12/07	3471	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X73	HP77750-B 14"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2542	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X73	SUPER BITE POINT PAR14T	ASSOCIATED PILE & FITTING 800/526-9047	05/12/11	4366	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X73	VERSA STEEL VS314-117N	VERSA STEEL 800/678-0814	01/12/06	2773	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X73	VERSA STEEL VS314-89N	VERSA STEEL 800/678-0814	03/13/03	2772	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X89	HP77600-B 14"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2502	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X89	HP77600-B-46 14"	ASSOCIATED PILE & FITTING 800/526-9047	04/12/07	3471	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT # MILL CERTS REQUIRED.

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00520.00	PILE TIPS HP14X89	HP77750-B 14"	ASSOCIATED PILE & FITTING 800/526-9047	08/08/07	2542	Q	EACH CAST STEEL POINT SHALL BE LEGIBLY MARKED W/HEAT OR LOT# MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X89	SUPER BITE POINT PAR14T	ASSOCIATED PILE & FITTING 800/526-9047	05/12/11	4366	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X89	VERSA STEEL VS314-117N	VERSA STEEL 800/678-0814	01/12/06	2773	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00520.00	PILE TIPS HP14X89	VERSA STEEL VS314-89N	VERSA STEEL 800/678-0814	03/13/03	2772	Q	VERIFY HEAT OR LOT # ON TIP. MILL CERTS REQUIRED.
00535.10A	RESIN BONDED ANCHOR SYSTEM	HILTI HIT-HY 200-A EPOXY	HILTI, INC. 800/879-8000 PETER ANDERSON 972/403-5948	06/29/16	4955	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	HILTI HIT-RE 100 EPOXY	HILTI, INC. 800/879-8000 PETER ANDERSON 972/403-5948	07/01/16	4965	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	HILTI HIT-RE 500V3 EPOXY	HILTI, INC. 800/879-8000 PETER ANDERSON 972/403-5948	07/01/16	4966	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	PE1000+ EPOXY INJECTION ADHESIVE	DEWALT 800/524-3244 SALES NORTHWEST 206/762-5812	10/08/09	3927	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	PROANCHOR ELITE EPOXY	DAYTON SUPERIOR CORPORATION 888/977-9600 877/266-7732 WILLIAMS CONCRETE 503/265-5462	12/28/20	5302	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.

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00535.10A	RESIN BONDED ANCHOR SYSTEM	PURE 110+ EPOXY INJECTION ADHESIVE EPOXY	DEWALT 800/524-3244 SALES NORTHWEST 206/762-5812	01/27/15	4552	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	RED HEAD A7+ EPOXY	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA-RED HEAD 630/694-4855 206/450-4221	08/07/17	4983	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	RED HEAD C6+ EPOXY	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA-RED HEAD 630/694-4855 206/450-4221	08/06/18	5091	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	RED HEAD G5+ EPOXY	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA-RED HEAD 630/694-4855 206/450-4221	08/06/18	5080	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	SIMPSON AT-XP EPOXY	SIMPSON STRONG-TIE DEREK HARDY 206/304-1842 800/999-5099	07/08/14	4789	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	SIMPSON ET-HP EPOXY (POLY ALL PAC-24) (ET)	SIMPSON STRONG-TIE DEREK HARDY 206/304-1842 800-999-5099	05/18/12	1001	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	SIMPSON SET 3G EPOXY	SIMPSON STRONG-TIE DEREK HARDY 206/304-1842 800/999-5099	11/06/19	5188	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10A	RESIN BONDED ANCHOR SYSTEM	ULTRABOND HS-1CC EPOXY	ADHESIVES TECHNOLOGY CORP. 954/789-4764	03/26/19	5133	Q	WHEN EMBEDMENT NOT SPECIFIED SUBMIT A PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.
00535.10B	MECHANICAL ANCHOR SYSTEM TYPE A UNDERCUT	ATOMIC+ 316 STAINLESS	DEWALT 800/524-3244 SALES NORTHWEST 206/762-5812	07/06/20	5276	Q	SEE BDM Sizes: 3/8", 1/2", 5/8", 3/4" US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO

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00535.10B	MECHANICAL ANCHOR SYSTEM TYPE A UNDERCUT	HILTI HDA® 316 STAINLESS	HILTI, INC 800/879-8000 PETER ANDERSON 972/403-5948	07/06/20	5275	Q	SEE BDM Sizes: 10mm, 12mm, 16mm, 20mm US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO
00535.10B	MECHANICAL ANCHOR SYSTEM TYPE B EXPANSION	KWIK BOLT 3 HDG, 316 STAINLESS	HILTI, INC 800/879-8000 PETER ANDERSON 972/403-5948	07/06/20	5277	Q	SEE BDM Sizes: 1/4", 3/8", 1/2", 5/8", 3/4", 1" US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO
00535.10B	MECHANICAL ANCHOR SYSTEM TYPE B EXPANSION	KWIK BOLT TZ 316 STAINLESS	HILTI, INC 800/879-8000 PETER ANDERSON 972/403-5948	07/06/20	5278	Q	SEE BDM Sizes: 3/8", 1/2", 5/8", 3/4" US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO
00535.10B	MECHANICAL ANCHOR SYSTEM TYPE B EXPANSION	STRONG-BOLT 2 316 STAINLESS	SIMPSON STRONG-TIE DEREK HARDY 206/304-1842 800/999-5099	07/06/20	5280	Q	SEE BDM Sizes: 1/4", 3/8", 1/2", 5/8", 3/4", 1" US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO
00535.10B	MECHANICAL ANCHOR SYSTEM TYPE B EXPANSION	TRUBOLT WEDGE HDG, 316 STAINLESS	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA-RED HEAD 630/694-4855 206/450-4221	07/06/20	5279	Q	SEE BDM Sizes: 1/4", 3/8", 1/2", 5/8" US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO
00535.10B	MECHANICAL ANCHOR SYSTEM TYPE C SCREW	TAPCON 410 STAINLESS	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA-RED HEAD 630/694-4855	07/06/20	5282	Q	SEE BDM Sizes: 3/16", 1/4" US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO
00535.10B	MECHANICAL ANCHOR SYSTEM TYPE C SCREW	TITEN HD HDG, 316 STAINLESS	SIMPSON STRONG-TIE DEREK HARDY 206/304-1842 800/999-5099	07/06/20	5281	Q	SEE BDM Sizes: 1/4", 3/8", 1/2", 5/8", 3/4" US STEEL NOT VERIFIED AT TIME OF LISTING CHECK CMO
00538.10	CRACK INJECTION EPOXY	CRACKBOND LR-321 LV	ADHESIVES TECHNOLOGY CORP. 954/789-4764	07/29/16	4969	A	2 COMPONENT, HIGH MODULUS
00538.10	CRACK INJECTION EPOXY	CSS LOW VISCOSITY GROUT	CHEMCO SYSTEMS 800/757-6773 650/261-3790	10/09/08	2977	A	

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00538:10	CRACK INJECTION EPOXY	CSS STANDARD GROUT	CHEMCO SYSTEMS 800/757-6773 650/261-3790	07/12/07	2976	A	
00538:10	CRACK INJECTION EPOXY	EPOJET	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	11/21/16	5009	A	
00538:10	CRACK INJECTION EPOXY	EP-SLV	E-CHEM, LLC JAMES HIGH 505/217-2121	05/17/17	5049	A	2 COMPONENT, HIGH MODULUS
00538:10	CRACK INJECTION EPOXY	KEMKO 038 REG IR	CHEMCO SYSTEMS 800/757-6773 650/261-3790	03/09/06	3255	A	SAME AS KONTEK GROUT 103REG IR FOR CRACKS UP TO 0.25" WIDE. AUTOMATIC INJECTION SYSTEMS. TYPE IV, GRADE 1, CLASS B&C>50F.
00538:10	CRACK INJECTION EPOXY	KEMKO 068 LV IR	CHEMCO SYSTEMS 800/757-6773 650/261-3790	03/09/06	3254	A	SAME AS KONTEK GROUT III LV IR FOR CRACKS UP TO 0.25" WIDE. AUTOMATIC INJECTION SYSTEMS. TYPE IV, GRADE 1, CLASS B&C.
00538:10	CRACK INJECTION EPOXY	KONTEK GROUT 103 REG IR	CONTECH SYSTEMS 650/261-3790 PETE BARLOW 206/763-9877 DON ELLSWORTH 503/223-9817	03/10/05	1569	A	FOR CRACKS UP TO 0.25" WIDE. TWO COMPONENT EPOXY. AUTOMATIC INJECTION SYSTEMS. TYPE IV, GRADE 1, CLASS B&C>50F.
00538:10	CRACK INJECTION EPOXY	KONTEK GROUT 111 LV-IR	CONTECH SYSTEMS 650/261-3790 PETE BARLOW 206/763-9877 DON ELLSWORTH 503/223-9817	03/10/05	1568	A	FOR CRACKS UP TO 0.25" WIDE. TWO COMPONENT EPOXY. AUTOMATIC INJECTION SYSTEMS. TYPE IV, GRADE 1, CLASS B&C.
00538:10	CRACK INJECTION EPOXY	PRO-POXY 100 WAS CALLED PRO-FOXY 100LV	Unitex by Dayton Superior David Minor 970/2086-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	07/10/08	891	A	TYPE III/III, GRADE B, CLASS B/C BONDS HARD TO HARD, OR HARD TO FRESH CONCRETES. LOW VISCOSITY USE BETWEEN 40 & 60 DEG F.
00538:10	CRACK INJECTION EPOXY	SIKADUR 52	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	11/13/08	548	A	AASHTO TYPES I AND IV.

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00538.10	CRACK INJECTION, EPOXY	DURAL 452 LV	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	03/17/14	4752	A	
00556.10A	MULTI-LAYER POLYMER CONCRETE OVERLAY EPOXY	EPX50-OVERLAY	E-CHEM, LLC JAMES HIGH 505/217-2121	06/04/15	4654	A	
00556.10A	MULTI-LAYER POLYMER CONCRETE OVERLAY EPOXY	EPX50-OVERLAY FAST	E-CHEM, LLC JAMES HIGH 505/217-2121	04/18/17	5048	A	FOR USE AT LOW TEMPERATURES FOLLOW MANUFACTURES RECOMMENDATIONS TEST DECK 2017
00556.10A	MULTI-LAYER POLYMER CONCRETE OVERLAY EPOXY	FLEXOLITH	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	01/10/08	230	A	WAS FLEXOLITH 216
00556.10A	MULTI-LAYER POLYMER CONCRETE OVERLAY EPOXY	PRO-POXY TYPE III DOT	UNITEX BY DAYTON SUPERIOR STEVE HACKWORTH 253/245-0263 WILLIAMS FORM ENG 800/255-0560	06/10/10	1920	A	
00556.10A	MULTI-LAYER POLYMER CONCRETE OVERLAY EPOXY	PRO-POXY TYPE III DOT LT	DAYTON SUPERIOR/UNITEX CLAY CHRISTIANSEN 801/671-3658	02/13/17	5017	A	FOR USE AT LOW TEMPERATURES FOLLOW MANUFACTURES RECOMMENDATIONS TEST DECK 2017
00556.10A	MULTI-LAYER POLYMER CONCRETE OVERLAY EPOXY	SIKADUR 22 LO MOD FS (FAST SET)	SIKA CORPORATION 800/933-7452	04/18/17	5051	A	FOR USE AT LOW TEMPERATURES FOLLOW MANUFACTURES RECOMMENDATIONS TEST DECK 2017
00556.10B	MULTI-LAYER POLYMER CONCRETE OVERLAY AGGREGATE	ARMORSTONE 980-3 FED HWY (WAS 416-FH)	WASHINGTON ROCK QUARRIES 253/262-1661	01/14/14	4726	Q	
00556.10B	MULTI-LAYER POLYMER CONCRETE OVERLAY AGGREGATE	ARMORSTONE 982-3 416-NM	WASHINGTON ROCK QUARRIES 253/262-1661	01/14/14	4725	Q	

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00565.00	CFRP-WET LAY UP SYSTEM	MBT MBRACE CF 130 WAS WABOMBRAE CF130 CFRP	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	06/14/07	2613	Q	MEETS CALTRANS REQUIREMENTS. FABRIC
00565.00	CFRP-WET LAY UP SYSTEM	MBT MBRACE CF 160	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	02/11/10	3720	Q	APPROVED BY BRIDGE SECTION. FABRIC
00565.00	CFRP-WET LAY UP SYSTEM	RENEW WRAP CF-335	GEO TREE SOLUTIONS 706/302-4476	09/11/03	2881	Q	MEETS CALTRANS REQUIREMENTS. FABRIC WAS FIBERBOND VELACARB VELACARB 335U / VELOXX LR
00565.00	CFRP-WET LAY UP SYSTEM	RENEW WRAP CF-600	GEO TREE SOLUTIONS 706/302-4476	06/10/10	4073	Q	APPROVED BY BRIDGE SECTION. FABRIC WAS VELACARB 600U
00565.00	CFRP-WET LAY UP SYSTEM	SCH 41 / TYFRO	FYFE CO LLC 858/642-0694 EXT 13	06/13/02	2611	Q	MEETS CALTRANS REQUIREMENTS. FABRIC
00565.00	CFRP-WET LAY UP SYSTEM	SIKA CARBODUR CFRP	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	06/13/02	2612	Q	MEETS CALTRANS REQUIREMENTS. PLATE
00582.10	COMPOSITE - DISC. FIXED REVIEWED FOR 2008 SPECS	DISKTRON	R.J. WATSON, INC. 716/901-7020	10/09/08	1509	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - DISC. FIXED REVIEWED FOR 2008 SPECS	VERSIFLEX HLMR FIXED DISC	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3883	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - DISC. GUIDED REVIEWED FOR 2008 SPECS	DISKTRON	R.J. WATSON, INC. 716/901-7020	10/09/08	1509	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.

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00582.10	COMPOSITE - DISC, GUIDED REVIEWED FOR 2008 SPECS	VERSIFLEX HLMR GUIDED DISC	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3884	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - DISC, NON GUI REVIEWED FOR 2008 SPECS NON-GUIDED	DISKTRON	R.J. WATSON, INC. 716/901-7020	10/09/08	1509	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - DISC, NON GUI REVIEWED FOR 2008 SPECS NON-GUIDED	VERSIFLEX HLMR NON-GUIDED DISC	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3885	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - POT, FIXED REVIEWED FOR 2008 SPECS	TECHSTAR POT BEARING - TF	TECHSTAR, INC WARREN BROWN 419/424-0888	10/08/09	1069	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - POT, FIXED REVIEWED FOR 2008 SPECS	VERSIFLEX HLMR FIXED POT	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3886	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - POT, GUIDED REVIEWED FOR 2008 SPECS	TECHSTAR POT BEARING - TC	TECHSTAR, INC WARREN BROWN 419/424-0888	10/08/09	1069	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - POT, GUIDED REVIEWED FOR 2008 SPECS	VERSIFLEX HLMR GUIDED POT	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3887	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - POT, NON GUID REVIEWED FOR 2008 SPECS NON-GUIDED	TECHSTAR POT BEARING - TA	TECHSTAR, INC WARREN BROWN 419/424-0888	10/08/09	1069	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE - POT, NON GUID REVIEWED FOR 2008 SPECS NON-GUIDED	VERSIFLEX HLMR NON-GUIDED POT	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3888	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.

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00582.10	COMPOSITE-SLIDING GUIDED GUIDED	FABREEKA PTFE PAD	FABREEKA INTERNATIONAL 800/322-7352	06/10/10	3199	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	COMPOSITE-SLIDING NON GUI NON-GUIDED	FABREEKA PTFE PAD	FABREEKA INTERNATIONAL 800/322-7352	06/10/10	3199	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	ELASTOMERIC - PLAIN	ALERT PLAIN ELASTOMERIC BRG.	ALL STATE INDUSTR / ALERT MFG. 847/350-0460	05/12/11	4291	A	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	ELASTOMERIC - PLAIN	SCOUAL 60 DUROMETER PLAIN PAD	SCOUAL RUBBER 206/763-2650	02/11/10	4093	A	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	ELASTOMERIC - PLAIN	SEP PLAIN ELASTOMERIC BRG	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	09/09/10	4173	A	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	ELASTOMERIC - PLAIN REVIEWED FOR 2008 SPECS	VERSIFLEX PLAIN ELASTOMERIC	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3881	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	ELASTOMERIC - STEEL REINF	SCOUAL 60 DUROMETER LAM PAD	SCOUAL RUBBER 206/763-2650	02/11/10	4092	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	ELASTOMERIC - STEEL REINF	SEP LAMINATED ELASTOMERIC BRG	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	09/09/10	4177	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.
00582.10	ELASTOMERIC - STEEL REINF REVIEWED FOR 2008 SPECS	VERSIFLEX STEEL-ELASTOMERIC	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503-646-0801	10/08/09	3882	Q	MEETS APPROPRIATE PARTS OF SECTION 02570 AND 02571.

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00584.10	ELASTOMERIC CONCRETE FOR PAVING DAMS	DELCRETE 1492 URETHANE W/FIBERGLASS & SAND.	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/848-1730 BRUCE HOLLIDAY 503/646-0801	05/01/89	406	Q	SAND AND FIBERGLASS. NOT TO BE CONFUSED WITH DEL-AGG. WHICH IS NOT APPROVED. DEL-AGG HAS LARGER ROCK & NO FIBERGLASS.
00584.10	ELASTOMERIC CONCRETE FOR PAVING DAMS	E-CRETE 57N MODIFIED URETHANE	CHASE CORPORATION LLC 800/323-4182	05/23/19	5195	Q	3 PART, TWO PART MODIFIED URETHANE WITH AGGREGATE
00584.10	ELASTOMERIC CONCRETE FOR PAVING DAMS	EMCRETE II POLYURETHANE (2 PART + AGG)	SIKA CORPORATION 800/933-7452 EMSEAL CORPORATION 617/835-8541	06/08/20	5270	Q	3 PART, TWO PART POLYURETHANE WITH AGGREGATE
00584.10	ELASTOMERIC CONCRETE FOR PAVING DAMS	KBP PPC-1121 POLYESTER	KWIK BOND POLYMERS DAN ULDALL 360/600-7762	08/25/16	4973	Q	REQUIRES KBP 204 PRIMER ON PCC SURFACE
00584.10	ELASTOMERIC CONCRETE FOR PAVING DAMS	PLY-KRETE FS POLYURETHANE MOD. (3 PART)	Polysat Company 518/664-6000 Williams Concrete Acc.503/286-3647	07/25/13	4612	Q	FOLLOW MFG RECOMMENDATIONS.
00584.10	ELASTOMERIC CONCRETE FOR PAVING DAMS	SILSPEC 900 PNS	SSI CONSTRUCTION & MATERIALS 800/888-8909 ATLAS SUPPLY 800/806/7952	07/14/05	944	Q	2 PART POLYMER EPOXY
00584.10	ELASTOMERIC CONCRETE FOR PAVING DAMS	WABOCRETE II POLYURETHANE (3 PARTS)	WATSON BOWMAN ACME 800/677-4922	10/14/04	1444	Q	FOLLOW MFG RECOMMENDATIONS. COLD APPLIED - SELF LEVELING CURE:2 HRS. MUST HAVE SOUND CONCRETE UNDER INSTALLATION.
00585.10	EXPANSION JOINT SYSTEM, ASPHALTIC PLUG FOR MOVEMENTS OF < 1 1/2"	MATRIX 502	CRAFCO INC. 800/528-8242 GREG SHARP 971/645-1826 DS BROWN 419/257-5478	12/11/08	1365	Q	MOVEMENTS ±1"
00585.10	EXPANSION JOINT SYSTEM, ASPHALTIC PLUG FOR MOVEMENTS OF < 1 1/2"	THORMA-JOINT	DYNAMIC SURFACE APPLICATIONS 800/491-5663	02/12/09	1570	Q	BJ SUPER (POLYMER MODIFIED ASPHALT) AND 3/4" COARSE AGGREGATE

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00585.10	EXPANSION JOINT SYSTEM, ASPHALTIC PLUG FOR MOVEMENTS OF 1"	MATRIX 501	CRAFCO INC. 800/528-8242 GREG SHARP 971/645-1826	06/20/14	4777	Q	DEPTH 2"-8", MAXIMUM WIDTH 24"
00585.10	EXPANSION JOINT SYSTEM, COMPRESSION FOR MOVEMENTS OF < 1 3/4"	DELASTIC SEAL - CV SERIES OK FOR 2008 SPECS	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503/646-0801	06/10/10	620	Q	SUBMIT SHOP DRAWINGS TO BRIDGE POLYCHLOROPRENE (NEOPRENE)BASE
00585.10	EXPANSION JOINT SYSTEM, NEOPRENE COMPRESSION FOR MOVEMENTS OF < 1 3/4"	WABO COMPRESSION SEAL "WA"	WATSON BOWMAN ACME 800/677-4922	01/18/91	501	Q	SUBMIT SHOP DRAWINGS TO BRIDGE SECTION FOR EACH PROJECT. BASE OF POLYCHLOROPRENE.
00585.10	EXPANSION JOINT SYSTEM, PRECOMPRESSED FOAM SILICONE SEAL MOVEMENT UP TO 2.5"	EMSEAL BEJS SYSTEM	EMSEAL JOINT SYSTEMS, LTD 508/836-0280	06/27/19	5211	Q	
00585.10	EXPANSION JOINT SYSTEM, PRECOMPRESSED FOAM SILICONE SEAL MOVEMENT UP TO 2.5"	WABO FS BRIDGE SEAL	WATSON BOWMAN ACME CORP. 716/691-7566	06/27/19	5212	Q	
00585.10	EXPANSION JOINT SYSTEM, STRIP SEAL MOVEMENTS OF 1 3/4" - 4"	RJ SERIES STRIP SEAL TYPE A EXTRUSION, S-400 SEAL	R.J. WATSON, INC. 716/901-7020	06/11/09	1006	Q	SUBMIT DRAWINGS TO BRIDGE. ANCHOR PER BR145. OKAY FOR 2008 SPECS.
00585.10	EXPANSION JOINT SYSTEM, STRIP SEAL MOVEMENTS OF 1 3/4" - 4"	STEEFLEX SSPA W/L2-400.L2-500	D.S. BROWN CO. 800/848-1730 LARRY DURAIN 800/648-1730 BRUCE HOLLIDAY 503/646-0801	06/10/10	1343	Q	ANCHOR PER BR145. DRWS TO BR. CONTRACTOR RESPONSIBLE FOR ADDL FORMING NECESSARY SINCE RAIL SHORTER THAN SD.
00585.10	EXPANSION JOINT SYSTEM, STRIP SEAL MOVEMENTS OF 1 3/4" - 4"	WBA STRIP SEAL TYPE-P SE GLAND	WATSON BOWMAN ACME 800/677-4922	03/08/07	3142	Q	ANCHOR PER BR145. CONTRACTOR RESPONSIBLE FOR ADDL FORMING NECESSARY SINCE RAIL SHORTER THAN SD.
00591.00	SPRAY WATERPROOFING MEMBRANE WARRANTED LIQUID	MARK - 155 UREGRID SYSTEM	OLIN EPOXY POLY-CARB. INC DAN PATACCA 216/536-7777 FIELD OPT. 330/405-3311	03/14/12	4482	Q	MARK 155 SEALER & QUARTZ SAND MARK 155 MEMBRANE MARK 154 OVERLAY & AGGREGATE

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00591.00	SPRAY WATERPROOFING MEMBRANE WARRANTED LIQUID	MATACRYL WPM	FPT INFRASTRUCTURE 336/789-7259	02/19/19	5158	Q	MATACRYL PRIMER CM MATACRYL MEMBRANE LAYER MATACRYL STC TACK COAT WITH AGG. GRADE LIMIT 0%-90% INCLINE
00591.00	SPRAY WATERPROOFING MEMBRANE WARRANTED LIQUID	POLYFLEX BRIDGE DECK SYSTEM	WASSER COATING INC. 216/636-6777	02/19/15	4877	Q	POLYFLEX 111 PU PRIMER POLYFLEX 311 MEMBRANE POLYFLEX 411 SHEARCOAT & AGGREGATE POLYFLEX 511 TACKCOAT
00594.10	MAINTENANCE COATING 3 COAT SYSTEM W/ORGANIC ZINC	SYSTEM MC-1	CARBOLINE 800/848-4645 CRAIG FIGGINS 503/313-5438	09/23/16	3372	Q	PRIMER-CARBOZINC 859 VOC INTERMEDIATE-CARBOGUARD 635 VOC LO GLOSS TOP-CARBOTHANE 133 VOC HI GLOSS TOP-CARBOTHANE 134 VOC
00594.10	MAINTENANCE COATING 3 COAT SYSTEM W/ORGANIC ZINC	SYSTEM MC-2	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	09/23/16	3373	Q	PRIMER-ZINC CLAD III HS INTERMEDIATE-MACROPOXY 646 LO GLOSS TOP-ACROLON 218 HS HI GLOSS TOP-ACROLON 218 HS
00594.10	MAINTENANCE COATING 3 COAT SYSTEM W/ORGANIC ZINC	SYSTEM MC-3	WASSER 800/627-2968 DAN WOLF 360/870-3513	07/08/10	3375	Q	PRIMER-MC ZINC 100 INTERMEDIATE-MC-MIOMASTIC 100 LO GLOSS TOP-FERROX A 100 HI GLOSS TOP-LUSTER 100
00594.10	NON-FERROUS COATING 2 COAT - NON FERROUS	SYSTEM NFC-1	CARBOLINE 800/848-4645 -2064 CRAIG FIGGINS 503/313-5438	10/12/06	3378	Q	PRIMER-GALOSEAL WB TOP-CARBOTHANE 134HS
00594.10	NON-FERROUS COATING 2 COAT - NON FERROUS	SYSTEM NFC-3	WASSER 360/866-4517 800/627-2968	07/08/10	3380	Q	PRIMER-FERROX B 100 TOP-LUSTER 100
00594.10	REHAB COATING 3 COAT SYSTEM W/ORGANIC ZINC AND MICACEOUS IRON OXIDE	SYSTEM RC-1	WASSER 800/627-2968 DAN WOLF 360/870-3513	09/23/16	3377	Q	PRIMER-MIOZINC 100 INTERMEDIATE-FERROX B 100 LO GLOSS TOP-FERROX A 100 HI GLOSS TOP-LUSTER 100
00594.10	SHOP COATING 3 COAT SYSTEM	SYSTEM SC-3	WASSER 800/627-2968 DAN WOLF 360/870-3513	06/28/18	5149	Q	PRIMER-MC-ZINC 100 INTERMEDIATE-MC-MIOMASTIC 100 TOP- MC FERROX A 100

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00594.10	SHOP COATING 3 COAT SYSTEM W/INORGANIC ZINC	SYSTEM SC-1	CARBOLINE 800/848-4645 -2064 CRAIG FIGGINS 503/313-5438	10/12/06	3370	Q	PRIMER-CARBOZINC 11HS INTERMEDIATE-CARBOGUARD 893 TOP-CARBOTHANE 134HS
00594.10	SHOP COATING 3 COAT SYSTEM W/INORGANIC ZINC	SYSTEM SC-2	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	10/12/06	3371	Q	PRIMER-ZINC CLAD DOT INTERMEDIATE-MACROPOXY 646-100 TOP-ACROLON 218 HS
00594.10	SHOP PILE COATING 3 COAT SYSTEM W/TAR	SYSTEM SPC-1	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	12/20/16	5022	Q	PRIMER-ZINC CLAD DOT INTERMEDIATE-COROTHANE COAL TAR TOP-COROTHANE COAL TAR
00594.10	SHOP PILE COATING 3 COAT SYSTEM W/TAR	SYSTEM SPC-2	WASSER 800/627-2968 DAN WOLF 360/870-3513	12/20/16	5023	Q	PRIMER-MIOZINC 100 INTERMEDIATE-MC TAR 100 TOP-MC TAR 100
00594.10	SHOP PILE COATING 4 COAT SYSTEM W/TAR	SYSTEM SPC-3	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	12/20/16	5024	Q	PRIMER-ZINC CLAD DOT INTERMEDIATE-COROTHANE COAL TAR INTERMEDIATE-COROTHANE COAL TAR TOP-SEAGUARD 1000
00594.10	SHOP PILE COATING 4 COAT SYSTEM W/TAR	SYSTEM SPC-4	WASSER 800/627-2968 DAN WOLF 360/870-3513	12/20/16	5025	Q	PRIMER-MIOZINC 100 INTERMEDIATE-MC TAR 100 INTERMEDIATE-MC TAR 100 TOP-BALLASTCOAT 100
00594.10	WEATHERING STEEL COATING 2 COAT SYSTEM	SYSTEM WSC-1	CARBOLINE 800/848-4645 CRAIG FIGGINS 503/313-5438	12/20/16	5026	Q	PRIMER-CARBOZINC 859 VOC TOP-CARBOXANE 2100
00594.10	WEATHERING STEEL COATING 2 COAT SYSTEM	SYSTEM WSC-2	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	12/20/16	5027	Q	PRIMER-ZINC CLAD IIHS TOP-FLUOROKEM HS
00594.10	WEATHERING STEEL COATING 2 COAT SYSTEM	SYSTEM WSC-3	WASSER 800/627-2968 DAN WOLF 360/870-3513	12/20/16	5028	Q	PRIMER-MC ZINC 100 TOP-102 RAPID THANE POLYASPARTIC

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00594.12	STRUCTURAL STEEL CAULK	FLEXIBLE SEAL	AC PRODUCTS 800/238-4204	11/08/07	3385	Q	
00594.12	STRUCTURAL STEEL CAULK	LOXON S1	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	10/11/07	3383	Q	WAS NAMED STAMPEDE 1 NAME CHANGED 2/7/2017
00594.12	STRUCTURAL STEEL CAULK	SIKAFLEX 1A	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5916	11/08/07	3381	Q	
00594.13	CHLORIDE REMOVER	CHLOR*RID	CHLOR*RID INTER.,INC 800/422-3217	01/21/14	4731	Q	SHALL BE DEEMED COMPATIBLE WITH COATING SYSTEM, BY THE COATING SYSTEM MANUFACTURE, CERT. LETTER
00594.13	CHLORIDE REMOVER	HOLDTIGHT 102	HOLDTIGHT SOLUTIONS 800/319-8802	01/21/14	4732	Q	SHALL BE DEEMED COMPATIBLE WITH COATING SYSTEM, BY THE COATING SYSTEM MANUFACTURE, CERT. LETTER
00597.11	FILLERS & SEALERS FILLER	READY TO APPLY BLOCK FILLER B25W25	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	12/10/93	1718	A	BLOCK FILLER FOR USE ON CONCRETE BLOCK BUILDINGS. FOR VERTICAL FACE, ABOVE GRADE SAME AS PREP-RITE B25W25.
00597.11	FILLERS & SEALERS FILLER	SPRAYABLE SMOOTH BLOCK FILLER 501901	RODDA PAINT 12000 SW GARDEN PLACE PORTLAND OR 97232 503/521-4300	05/01/88	1310	A	WHITE, BLOCK FILLER FOR USE ON CONCRETE BLOCK BUILDINGS. VERTICAL FACES, ABOVE GRADE.
00597.11	WATERPROOFING - CAP	SHERLASTIC ELASTOMERIC WATERPROOFING COATING A5	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	05/01/88	1719	A	SEALER FOR USE ON CONCRETE BLOCK BUILDINGS / WALLS. GOOD FOR TOP CAP.
00597.11	WATERPROOFING - CAP	SUPER ROFLEX ELASTOMERIC COAT. 511301	RODDA PAINT 12000 SW GARDEN PLACE PORTLAND OR 97223 503/521-4300	05/01/88	1309	A	WHITE, TOP SEALER FOR USE ON CONCR BLOCK BUILDINGS / WALLS. MAINTAIN 15 MILS (DRY) AFTER 2 COATS.

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00745.00	ASPHALT COLD PATCH - HP 2 PART	4SEASONS POURABLE POTHOLE FILLER	4SEASONS PAVEMENT REPAIR PRODUCTS, INC 231/861-7126	10/01/18	5132	A	LIQUID AND AGGREGATE MIXED ON SITE
00745.00	ASPHALT COLD PATCH - HP 50# BAGS	HP ASPHALT COLD PATCH # 34977	CRAFCO INC. 800/528-8242 GREG SHARP 971/645-1826	01/14/10	3952	A	COMPLIES WITH OUR SPECS.
00745.00	ASPHALT COLD PATCH - HP BAGS	BOND X GREEN HP COLP PATCH	SEABOARD ASPHALT PRODUCTS CO. 410/355-0330	01/26/15	4866	A	
00745.00	ASPHALT COLD PATCH - HP BAGS	MAX-A-PATCH ACP	SPECICHEM LLC 816/968-5600 WHITE CAP 503/287-4151	11/06/20	5303	A	
00745.00	ASPHALT COLD PATCH - HP BAGS AND 5 GALLON BUCKET	GREENPATCH HP PERM. NO VOC	COLD MIX MANUFACTURING CORP. 585/360-7079	10/08/18	5152	A	
00745.00	ASPHALT COLD PATCH - HP BUCKETS	INSTANT ROAD REPAIR	INTERNATIONAL ROADWAY RESEARCH 281/441-3558 TRAFFIC SAFETY 800/547-8518	06/13/02	1895	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK	BONDX	SEABOARD ASPHALT PRODUCTS CO. 3601 FAIRFIELD RD. BALTIMORE, MARYLAND 21226 SHAWN CAMPBELL 410/355-0330	06/13/02	1515	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK	TAG 8000	INFRATECH POLYMERS 604/888-8808	06/13/02	1265	A	PART OF RESEARCH PROJECT 2002. DID WELL ON THE ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	EZ STREET	LAKESIDE INDUSTRIES RICK RAWLINGS 425/313-2681 CHRIS KING 503/222-6421	08/08/02	2407	A	MEETS SPECS.

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00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	PERMA PATCH	NATIONAL PAVING & CONTRACTING 410/764-7117 HOWARD SMUKLER 510/525-8961	06/13/02	2527	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	QPR (QPR2000)	QPR DBA, QUIKRETE 423/637-2499 BLUK SOUTH COUNTY ASPHALT 971/235-4571	03/10/11	560	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	UPM COLD MIX	UNIQUE PAVING MATERIALS 800/441-4880 JONH BISCHOFF 503/347-1596 PORTER YETT 503/282-3251 MOUNTAIN VIEW PAVING 541/488-7745	06/13/02	831	A	PART OF RESEARCH PROJECT 2002. DID WELL ON THE ROAD. PASSED LAB TESTS.
00745.22	ASPHALT RELEASE AGENT	AR-40/AR-50	KT CHEMICALS, INC 855/932-2228 KT SCIENTIFIC 855/972-7377	08/28/15	4918	A	
00745.22	ASPHALT RELEASE AGENT	BIG RED	TEXAS REFINERY, 800/827-0711 SCOTTSDALE, AZ 602/945-1710	01/11/96	1468	A	PASSED TESTS AT ARIZONA DOT FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	BMF	COMPOUND TECHNOLOGIES, INC. 678/721-4101	09/20/16	4978	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	CLEARRELEASE	KT CHEMICALS, INC 855/932-2228	06/26/15	4888	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	FIRST CHOICE ASPHALT RELEASE AGENT	BRODY CHEMICAL 801/963-2436	10/31/17	5070	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	FIRST CHOICE ASPHALT RELEASE PLUS	BRODY CHEMICAL 801/963-2436	10/31/17	5071	A	NTPEP LISTED

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00745.22	ASPHALT RELEASE AGENT	FIRST CHOICE CONCENTRATE ASPHALT RELEASE AGENT	BRODY CHEMICAL 801/963-2436	10/31/17	5072	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	FOAM 1846-50	MCCALL OIL 800/622-2558	09/09/99	939	A	PASSED ARIZONA DOT TESTS. FOAM GENERATING LUBRICATING AGENT. FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	GREENGUARD ASPHALT RELEASE AGENT	BG CHEMICAL LP 800/725-8470	01/21/14	4678	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	GS ASPHALT SOLUTIONS TA-200 ASPHALT RELEASE	DELTA GREEN PRODUCTS/GS ASPHALT SOLUTION 310/532-0353	05/08/19	5191	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	MAXI-KREME	GLOBAL CHEM-SOURCE 866/391-1126 OR 503/391-1126	08/11/11	4336	A	10:1 DILUTION RATIO TESTED.
00745.22	ASPHALT RELEASE AGENT	NO. 1 ASPHALT RELEASE AGENT	COMPOUND TECHNOLOGIES, INC. 678/721-4101	10/31/17	5073	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	SD-20 CLEANER	SPARTAN CHEMICAL CO. INC TOLEDO OH 419/531-5551	01/11/96	1470	A	PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	SLIPEAZEE SB	ROCHESTER MIDLAND 800/726-4448 ICL OF OREGON 800/876-4256	01/11/96	873	A	WATER BASED SOAP PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	SPX-7 ASPHALT RELEASE AGENT	COMPOUND TECHNOLOGIES, INC. 678/721-4101	10/31/17	5074	A	NTPEP LISTED

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00745.22	ASPHALT RELEASE AGENT	TECLON-PRO	TEC-TEAM INDUSTRIES 800/700-2530	11/10/05	3146	A	DILUTED VERSION OF TEC SHIELD (ODOT ID# 2321). FOLLOW MFG INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	TEC-SHIELD	TEC-TEAM INDUSTRIES 800/700-2530	04/12/01	2321	A	PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	TEC-SHIELD (FOR RUBBER)	TEC-TEAM INDUSTRIES 800/700-2530	05/10/01	2321	A	TESTING BY GOODYEAR TIRE. FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	TIS 011 RELEASE AGENT	TECHNICAL INDUSTRIAL SALES 800/433-7826	12/14/06	3411	A	INDEPENDENTLY TESTED TO AZ TEST REQUIREMENTS @ 30:1. FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.
00745.22	ASPHALT RELEASE AGENT	ULTRA SLIDER	MEYER LABORATORY, INC 816/228-4433	04/19/18	5109	A	NTPEP LISTED
00745.22	ASPHALT RELEASE AGENT	ZEP ASPHALT RELEASE FA MFG PRODUCT # 1083	ZEP, INC. 877/428-9937 OR 404/352-1680	05/12/11	2600	A	PASSED TESTS AT ARIZONA DOT.
00745.22	ASPHALT RELEASE AGENT	ZEP ASPHALT RELEASE R-6690 MFG PRODUCT # 0867	ZEP, INC. 877/428-9937 OR 404/352-1680	05/12/11	2602	A	PASSED TESTS AT ARIZONA DOT.
00745.22	ASPHALT RELEASE AGENT	ZEP PINNACLE ASPHALT RELEASE MFG PRODUCT # N896	ZEP, INC. 877/428-9937 OR 404/352-1680	08/11/11	4292	A	INDEPENDENTLY TESTED TO OUR REQUIREMENTS @ 5:1 & 15:1
00745.22	ASPHALT RELEASE AGENT FOR RUBBER	BLACK MAGIC FOR RUBBER	BG CHEMICAL 800/725-8470	01/13/11	1303	A	PASSED ARIZONA DOT TESTS DESIGNED FOR RUBBER TIRES, ETC FOLLOW MANUFACTURERS INSTRUCTIONS CLOSELY.

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00746.00	POURED JOINT FILLER	POURED FILLER, JOINT		11/17/04		A	POURED JOINT FILLERS ARE NOW COVERED IN THE OPL IN SECTION 02440.30 HOT APPLIED JOINT SEALANT AND MEET ASTM D6690 TYPE II.
00759.12	DETECTABLE WARNING DEVICE CURED CONCRETE ASPHALT SURFACES - NO	ACCESS TILE SURFACE APPLIED TILE	ACCESS PRODUCTS 425/766-6234	05/14/09	3829	A	YELLOW MODELS: ACC-S-1X1, ACC-S-2X3, ACC-S-2X4, ACC-S-2X5, ACC-S-3X4, ACC-S-2X2CRV, ACC-S-3024-CRV
00759.12	DETECTABLE WARNING DEVICE CURED CONCRETE ASPHALT SURFACES - NO	ARMOR-TILE SURFACE APPLIED COLOR: FEDERAL YELLOW	ENGINEERED PLASTICS 800/682-2525 WHITE CAP 800/456-7445	05/08/03	2783	A	POLYMER COMPOSITE WITH ADHES AND MECHANICAL FASTENERS. MODELS: ADA-S-2436YW, ADA-S-2448YW, & ADA-S-2460YW.
00759.12	DETECTABLE WARNING DEVICE CURED CONCRETE ASPHALT SURFACES - NO	SAFE-STEP (CURED) MODEL: "SAFETY YELLOW"	TRANSCO INDUSTRIES 914/636-1000 BRIAN BUGGENHAGEN 503/956-1029	11/13/03	2879	A	POLYESTER POLYMER. PANELS ARE ABOUT 12" X 12" X 0.5" THICK. MFG RECOMMENDS A VARIETY OF ADHESIVES.
00759.12	DETECTABLE WARNING DEVICE CURED CONCRETE ASPHALT SURFACES - NO	SURFACE MOUNT COMPOSITE TILE	ADA SOLUTIONS 800/372-0519	06/11/09	3865	A	2436, 2448, 2460: RETY 24RADRET
00759.12	DETECTABLE WARNING DEVICE CURED CONCRETE ASPHALT SURFACES - NO	UL TRA-ADA PADS - SURFACE MOUNT	ULTRATECH INTERNATIONAL 800/353-1611 EXT 211	06/12/08	3635	A	FLEXIBLE PAD. MODELS 0750, 0751, 0752, & 0753
00759.12	DETECTABLE WARNING DEVICE CURED CONCRETE ASPHALT SURFACES - YES	VANGUARD ADA SYSTEMS SURFACE APPLIED TWSIS	VANGUARD ADA SYSTEMS 360/668-5700	08/08/02	2649	A	TRUNCATED DOME. LIQUID PRODUCT FOLLOW MANUFACTURERS INSTRUCTIONS.
00759.12	DETECTABLE WARNING DEVICE CURED CONCRETE FRESH CONCRETE ASPHALT SURFACES - NO	TUFTILE HIGH-IMPACT POLYMER TILES	TUFTILE, INC 847/307-3070 HOOKER CREEK, LLC 541/548-6322	06/25/14	4758	A	
00759.12	DETECTABLE WARNING DEVICE FRESH CONCRETE ASPHALT SURFACES - NO	ACCESS TILE REPL CAST IN PLACE TILE	ACCESS PRODUCTS 425/766-6234	05/14/09	3828	A	YELLOW MODELS: ACC-R-1X1, ACC-R-2X3, ACC-R-2X4, ACC-R-2X5, ACC-R-3X4, ACC-R-2X2CRV, ACC-R-3024CRV

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00759.12	DETECTABLE WARNING DEVICE FRESH CONCRETE ASPHALT SURFACES - NO	ALERTCAST	CAPE FEAR SYSTEMS III 877/232-6287	03/06/13	4419	A	REPLACEABLE PANELS 2436AC-Y, 2448AC-Y, 2460AC-Y
00759.12	DETECTABLE WARNING DEVICE FRESH CONCRETE ASPHALT SURFACES - NO	ARMOR-TILE CAST IN PLACE COLOR: FEDERAL YELLOW	ENGINEERED PLASTICS 800/682-2525 WHITE CAP 800/456-7445	05/08/03	2782	A	POLYMER COMPOSITE SET IN CONCR MODELS: ADA-C-2436YW, ADA-C-2448YW, & ADA-C-2460YW.
00759.12	DETECTABLE WARNING DEVICE FRESH CONCRETE ASPHALT SURFACES - NO	ARMOR-TILE REPL CAST IN PLACE COLOR: FEDERAL YELLOW	ENGINEERED PLASTICS 800/682-2525 WHITE CAP 800/456-7445	06/11/09	3858	A	MODELS: ATR2436Y, ART2448Y, ATR2460Y, & ATR3648Y.
00759.12	DETECTABLE WARNING DEVICE FRESH CONCRETE ASPHALT SURFACES - NO	CAST-IN-PLACE COMPOSITE TILE	ADA SOLUTIONS 800/372-0519	06/11/09	3866	A	COLOR OKAY 2436, 2448, 2460; PAVCIPI
00759.12	DETECTABLE WARNING DEVICE FRESH CONCRETE ASPHALT SURFACES - NO	COMPOSITE WETSET REPLACEABLE TACTILE	ADA SOLUTIONS 800/372-0519	01/10/08	3582	A	FEDERAL YELLOW. MODELS: 2436REPY, 2448REPY, 2460REPY. 24RADREP
00759.12	DETECTABLE WARNING DEVICE FRESH CONCRETE ASPHALT SURFACES - NO	SAFE-STEP (FRESH) MODEL: "SAFETY YELLOW"	TRANSPO INDUSTRIES 914/636-1000 BRIAN BUGGENHAGEN 503/956-1029	11/13/03	2879	A	FOLLOW MFG INSTRUCTIONS.
00759.12	DETECTABLE WARNING DEVICE SNOW AREAS PLASTIC CONCRETE	ADVANTAGE CAST IRON TILE	ADVANTAGE TACTILE SYSTEMS, INC 888/679-4022 425/766-6234	06/02/20	5257	A	UNCOATEDWILL PATINA MEETS "BUY AMERICA" AS SUBMITTED PATCH ALL SURFACE VENT HOLES FLUSH WITH MANUFACTURE APPROVED MATERIAL
00759.12	DETECTABLE WARNING DEVICE SNOW AREAS PLASTIC CONCRETE	ADVANTAGE PREMIER CAST IRON TILE	ADVANTAGE TACTILE SYSTEMS, INC 888/679-4022 425/766-6234	06/02/20	5258	A	UNCOATEDWILL PATINA MEETS "BUY AMERICA" AS SUBMITTED PATCH ALL SURFACE VENT HOLES FLUSH WITH MANUFACTURE APPROVED MATERIAL
00759.12	DETECTABLE WARNING DEVICE SNOW AREAS PLASTIC CONCRETE	NEENAH FOUNDRY DETECTABLE WARNING PLATE R-4984 SERIES (B, Q, R)	NEENAH FOUNDRY COMPANY 253/843-3107 ROB FREEMAN 971/235-5127	02/25/20	5227	A	UNCOATEDWILL PATINA MEETS "BUY AMERICA" AS SUBMITTED PATCH ALL SURFACE VENT HOLES FLUSH WITH MANUFACTURE APPROVED MATERIAL OR METHOD

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00759.12	DETECTABLE WARNING DEVICE SNOW AREAS PLASTIC CONCRETE REPLACEABLE	TUFTILE CAST IRON TILES (REPLACEABLE) CAST IRON	TUFTILE, INC 847/307-3070 HOOKER CREEK, LLC 541/548-6322	02/25/20	5193	A	UNCOATED/ WILL PATINA MEETS "BUY AMERICA" AS SUBMITTED PATCH ALL SURFACE VENT HOLES FLUSH WITH MANUFACTURE APPROVED MATERIAL
00760.00	POROUS PAVER-HEAVY DUTY	ARMORFLEX CLOSED CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	01/10/08	3590	A	
00760.00	POROUS PAVER-HEAVY DUTY	ARMORFLEX OPEN CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	02/14/08	3575	A	
00760.00	POROUS PAVER-HEAVY DUTY	ARMORFLEX TAPERED CELL BLOCK	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	02/14/08	3591	A	
00760.00	POROUS PAVER-LIGHT DUTY	DRIVABLE GRASS	SOIL RETENTION 800/346-7995	04/17/12	4486	A	LIGHT TRAFFIC
00760.00	POROUS PAVER-LIGHT DUTY	ECORASTER E30	PURUS NA ECORASTER INC. 800/495-5517 EQQ PRO LLC 503/793-5775	08/08/14	4785	A	GRID, GRASS, GRAVEL, SAND POLYETHYLEN, LOW DENSITY 12.99"X12.99"X1.18
00760.00	POROUS PAVER-LIGHT DUTY	ECORASTER E40	PURUS NA ECORASTER INC. 800/495-5517 EQQ PRO LLC 503/793-5775	08/08/14	4786	A	GRID, GRASS, GRAVEL, SAND POLYETHYLEN, LOW DENSITY 12.99"X12.99"X1.6
00760.00	POROUS PAVER-LIGHT DUTY	ECORASTER E50	PURUS NA ECORASTER INC. 800/495-5517 EQQ PRO LLC 503/793-5775	08/08/14	4776	A	GRID, GRASS, GRAVEL, SAND POLYETHYLEN, LOW DENSITY 12.99"X12.99"X1.96"
00760.00	POROUS PAVER-LIGHT DUTY	TYPEAVE 25	BERRY GLOBAL, INC 615/847-7500 ACF WEST 800/878-5115	06/06/16	4939	A	GRID, GRASS, GRAVEL RECYCLED HDPE 46"X46"X1"

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00760.00	POROUS PAVER-MEDIUM DUTY	BODPAVE 85 POROUS PAVING GRIDS	BERRY GLOBAL, INC 615/847-7500 ACF WEST 800/878-5115	10/11/12	4504	A	MODULAR CELLULAR GRASS PAVER RECYCLED HDPE
00760.00	POROUS PAVER-MEDIUM DUTY	ECORASTER E30	PURUS NA ECORASTER INC. 800/495-5517 EQO PRO LLC 503/793-5775	08/08/14	4785	A	GRID, GRASS, GRAVEL, SAND POLYETHYLEN, LOW DENSITY 12.99"X12.99"X1.18
00760.00	POROUS PAVER-MEDIUM DUTY	ECORASTER E40	PURUS NA ECORASTER INC. 800/495-5517 EQO PRO LLC 503/793-5775	08/08/14	4786	A	GRID, GRASS, GRAVEL, SAND POLYETHYLEN, LOW DENSITY 12.99"X12.99"X1.6
00760.00	POROUS PAVER-MEDIUM DUTY	ECORASTER E50	PURUS NA ECORASTER INC. 800/495-5517 EQO PRO LLC 503/793-5775	08/08/14	4776	A	GRID, GRASS, GRAVEL, SAND POLYETHYLEN, LOW DENSITY 12.99"X12.99"X1.96"
00760.00	POROUS PAVER-MEDIUM DUTY	EZ ROLL GRASS PAVER	NDS 888/825-4716	03/06/13	4594	A	CELLULAR GRASS PAVER
00760.00	POROUS PAVER-MEDIUM DUTY	GRASSPAVE2 W/HYDROGROW	INVISIBLE STRUCTURES 303/395-1803	10/12/06	2402	A	MODULAR CELLULAR GRASS PAVER
00760.00	POROUS PAVER-MEDIUM DUTY	GRASSY PAVERS	RK MANUFACTURING 800/957-5575 ACF WEST 800/878-5115	04/08/10	2483	A	PLASTIC
00760.00	POROUS PAVER-MEDIUM DUTY	TYPAVE 25	BERRY GLOBAL, INC 615/847-7500 ACF WEST 800/878-5115	06/06/16	4939	A	GRID, GRASS, GRAVEL RECYCLED HDPE 46"X46"X1"
00810.10	GUARDRAIL END TERMINAL MASH 2009 TL-2 TANGENT 'L'=25'	MSKT (STEEL POST) ENERGY ABSORBING UNIT	ROAD SYSTEMS, INC. JOHN DURKOS 330/346-0721 UNIVERSAL INDUSTRIAL SALES 800/424-9825	02/15/19	4979	A	MASH SEQUENTIAL KINKING TERMINAL. HEIGHT 31" HEIGHT 31"

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00810.10	GUARDRAIL END TERMINAL MASH 2009 TL-3 0-2 FLARE L=50'	MSKT (WOOD AND STEEL POST) ENERGY ABSORBING UNIT	ROAD SYSTEMS, INC. JOHN DURKOS 330/346-0721 UNIVERSAL INDUSTRIAL SALES 800/424-9825	07/28/16	4979	A	MASH SEQUENTIAL KINKING TERMINAL. TESTED AT IMPACT SPEEDS OF 60MPH HEIGHT 31"
00810.10	GUARDRAIL END TERMINAL MASH 2016 TL-2 FLARE NA L=38'-3.5"	SOFTSTOP END TERMINAL ENERGY ABSORBING UNIT	TRINITY HIGHWAY PRODUCTS, LLC MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 8	01/21/14	4682	A	TESTED FOR IMPACT SPEEDS UP TO 60MPH
00810.10	GUARDRAIL END TERMINAL MASH 2016 TL-2 TANGENT L=50'	MAX-TENSION GR END TERMINAL ENERGY ABSORBING UNIT	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	06/12/18	5118	A	HEIGHT 31" NON-GATING RE-DIRECTIVE
00810.10	GUARDRAIL END TERMINAL MASH 2016 TL-2 & TL-3 3' FLARE L' = 39.7	MFLAET NON-ENERGY ABSORBING UNIT	ROAD SYSTEMS, INC. JOHN DURKOS 330/346-0721 UNIVERSAL INDUSTRIAL SALES 800/424-9825	05/20/19	5196	A	HEIGHT 31"
00810.10	GUARDRAIL END TERMINAL MASH 2016 TL-3 0-2 FLARE "L"=27' (TOTAL 55 1/2')	MAX TENSION ENERGY ABSORBING UNIT	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	09/13/17	5076	A	HEIGHT 31" NON-GATING RE-DIRECTIVE TOTAL INSTALLATION LENGTH 55' 1/2"
00810.10	GUARDRAIL END TERMINAL MASH 2016 TL-3 FLARE NA L=50"*9.5"	SOFTSTOP END TERMINAL ENERGY ABSORBING UNIT	TRINITY HIGHWAY PRODUCTS, LLC MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 8	01/21/14	4682	A	TESTED FOR IMPACT SPEEDS UP TO 60MPH
00810.10	GUARDRAIL END TERMINAL MASH 2016 TL-3 TANGENT L=50'	MAX-TENSION MEDIAN ENERGY ABSORBING UNIT	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	06/12/18	5117	A	HEIGHT 31" NON-GATING RE-DIRECTIVE
00811.00	GUARDRAIL RETRO-FIT CABLE BARRIER (TL-3)	RETRO-RAIL	TRINITY HIGHWAY PRODUCTS, LLC MIKE MADDEN 800/772-7976 CORAL SALES 800/538-7245 DON GRIPNE 360/943-9559	04/03/15	4879	A	MOUNT TO TOP OF GUARDRAIL RETRO-FIT TO RAISE GUARD RAIL HEIGHT
00811.10	CABLE BARRIER SYSTEM 4 CABLE MASH TL-3, 4:1 SLOPE MASH TL-4, LEVEL SLOPE	GIBRALTAR MASH-16 TL4 CABLE BARRIER SYSTEM 4:1 TO LEVEL TERRAIN	GIBRALTAR GLOBAL, LLC 512/715-0808	12/16/20	5318	Q	STEEL OR PLASATIC SLEEVES WITH CONCRETE FOOTING

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00811.10	CABLE BARRIER SYSTEM MASH TL-3 4 CABLE	BRIFEN O-POST	BRIFEN USA 866/427-4336 405/793-9500	04/07/16	4948	Q	STEEL OR PLASTIC SLEEVES WITH CONCRETE FOOTING
00811.11	CABLE BARRIER TERMINAL TL-3 MASH 4 CABLE	BRIFEN MASH GATING TERMINAL (MGT)	BRIFEN USA 866/427-4336 405/793-9500	04/28/20	5228	Q	GATING DEVICE. AS WITH THE OTHERS. TERMINAL IS NOT PART OF LENGTH OF NEED SOCKETED CONCRETE FOUNDATION OR MOW STRIP
00811.11	CABLE BARRIER TERMINAL TL-3 MASH 4 CABLE	GIBRAL TAR MASH-16 TL4 CABLE BARRIER SYSTEM 4:1 TO LEVEL TERRAIN	GIBRAL TAR GLOBAL, LLC 512/715-0808	12/16/20	5319	Q	GATING DEVICE. AS WITH THE OTHERS. TERMINAL IS NOT PART OF LENGTH OF NEED SOCKETED CONCRETE FOUNDATION OR MOW STRIP
00820.00	CONCRETE BARRIER, MOVABLE	QUICK CHANGE MOVABLE BARRIER	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	10/10/91	465	Q	FOR SPECIAL APPLICATIONS ONLY. TRK MOUNTED EQUIP MOVES SPECIA BARRIER FROM ONE SIDE TO THE OTHER UP TO 16'. UP TO 10 MPH.
00822.00	GLARE SHIELDS	CARSONITE GLARE BLADE	CARSONITE INC. 800/648-7916 TRAFFIC SAFETY 800/547-8518	11/08/01	17	A	INDIVIDUAL BLADES ATTACHED TO THE BARRIER. NEW BASE BRACKET DESIGN 11/01. GALV / STAINLESS BASE, ZINC NOT ALLOWED.
00822.00	GLARE SHIELDS	DURASCREEN GLARE SHIELD	SAFE-HIT CORP. 888/323-6374	12/13/01	2506	A	TUBES, INDIVIDUALLY MOUNTED. LAB TEST WAS OUTSTANDING.
00822.00	GLARE SHIELDS	MODULAR GLARE SHIELDS	CARSONITE INC. 800/648-7916 TRAFFIC SAFETY 800/547-8518	11/09/01	86	A	FIBERGLASS BLADES MOUNT TO PRE FORMED BASE BOLTED TO BARRIER. NEW BASE BRACKET DESIGN 11/01. GALV OR STAINLESS BASE, NO ZINC
00830.00	IMPACT ATTENUATOR, G PERMANENT MASH TL-2 RE-DIRECTIVE, NON GATING	QUADGUARD M10	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	05/14/12	4492	Q	WIIDTHS 24" 13' LENGTH + TRANSITION
00830.00	IMPACT ATTENUATOR, G PERMANENT MASH TL-2 RE-DIRECTIVE, NON GATING.	TAU-M PARALLEL	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	01/29/19	5173	Q	LENGTH 14' 2" WIDTH 30"

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00830.00	IMPACT ATTENUATOR, H PERMANENT MASH TL-3 RE-DIRECTIVE, NON GATING.	TAU-M PARALLEL	LINDSAY TRANSPORTATION SOLUTIONS, LLC 707/374-6800	01/29/19	5173	Q	LENGTH 22' 9" WIDTH 30"
00830.00	IMPACT ATTENUATOR, J PERMANENT MASH TL-3 RE-DIRECTIVE, NON GATING	QUADGUARD ELITE M10 (8 BAY)	TRINITY HIGHWAY PRODUCTS, LLC 916/644-9102 CORAL SALES COMPANY 503/655-6351	08/18/16	4981	Q	LENGTH 27' 2" WIDTH 24"
00830.00	IMPACT ATTENUATOR, J PERMANENT, NARROW MASH TL-3 RE-DIRECTIVE, NON GATING	QUADGUARD M10	ENERGY ABSORPTION 888/323-6750 JIM CROWLEY 312/467-6750 DAN MCCARTHY 760/518-9929 CORAL SALES 800/538-7245	05/14/12	4492	Q	TESTED FOR SPEEDS UP TO 60 MPH, NARROW WIDTHS 24" 22' LENGTH + TRANSITION
00830.00	IMPACT ATTENUATOR, J PERMANENT, NARROW MASH TL-3 RE-DIRECTIVE, NON-GATING.	SCI100GM	WORK AREA PROTECTION (SCI) 800/327-4417 OR 630/377-9100	12/14/06	2907	Q	LOW MAINTENANCE UNIT. TESTED FOR IMPACT SPEEDS UP TO 60 MPH, NARROW. LENGTH: 21'6"
00840.10	DELINEATOR - TYPE 2	CURV-FLEX ROADMARKER CFRM-400	CARSONITE INC. 800/648-7916 TRAFFIC SAFETY 800/547-8518	05/01/88	1503	A	PULTRUDED FIELD MEASURE LENGTHS, SEE STANDARD DRAWING
00840.10	DELINEATOR - TYPE 2	FLEXSTAKE MODEL 600	FLEXSTAKE, INC. 800/348-9839 PUBLIC WORKS SUPPLY 800/754-6551	10/11/01	823	A	PLASTIC ANCHOR, USE HINGE. USE H.I. SHEETING. FIELD MEASURE LENGTHS, SEE STANDARD DRAWING.
00840.10	DELINEATOR - TYPE 2	ROADMARKER CRM-375	CARSONITE INC. 800/648-7916 TRAFFIC SAFETY 800/547-8518	05/01/88	1504	A	FIELD MEASURE LENGTHS, SEE STANDARD DRAWING
00840.10	DELINEATOR - TYPE 2	SAFE-HIT, TYPE II	SAFE-HIT CORP. 888/323-6374 DAN MCCARTHY 760/518-9929	05/01/88	1029	A	ROUND TUBE W/FLAT FACE GALV DRIVEN ANCHOR, TWIST/PIN LOCK. FIELD MEASURE LENGTHS, SEE STANDARD DRAWING.
00840.10	DELINEATOR - TYPE 2	SHUR-FLEX DELINEATOR SD0031	SHUR-TITE PRODUCTS 512/218-9500	07/03/17	5058	A	REFLECTIVE SURFACE TO BE 4 INCHES TALL

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00840.10	DELINEATOR - TYPE 3	SAFE-HIT, TYPE III	SAFE-HIT CORP. 888/323-6374 DAN MCCARTHY 760/518-9929	05/01/88	1030	A	ROUND TUBE W/ROUND FACE. 18" GALV ANCHOR. TWIST/PIN LOCK. FIELD MEASURE LENGTHS. SEE STANDARD DRAWINGS
00840.10	DELINEATOR - TYPE 3 FLEXIBLE ROUND	TD5500 EARTHFLEX 553604	THREE D TRAFFIC WORKS 877/843-9757	01/28/15	4769	A	48" ROUND TUBE 18" GALV ANCHOR HINGE FASTENERS WHITE & YELLOW
00840.10	DELINEATOR - TYPE 3 FLEXIBLE ROUND	TD5500 EARTHFLEX 553604P2-18	THREE D TRAFFIC WORKS 877/843-9757	01/28/15	4770	A	48" ROUND TUBE 18" GALV ANCHOR S HINGE CLEVIS PIN WHITE & YELLOW
00840.10	DELINEATOR - TYPE 3 FLEXIBLE ROUND	TD5500 EARTHFLEX 555710	THREE D TRAFFIC WORKS 877/843-9757	01/28/15	4768	A	66" ROUND TUBE 18" GALV ANCHOR HINGE FASTENERS WHITE & YELLOW
00840.10	DELINEATOR - TYPE 3 FLEXIBLE ROUND	TD5500 EARTHFLEX 555710P2-18	THREE D TRAFFIC WORKS 877/843-9757	01/28/15	4767	A	66" ROUND TUBE 18" GALV ANCHOR S HINGE CLEVIS PIN WHITE & YELLOW
00840.10	DELINEATOR - TYPE 4 ALT 1 GUARDRAIL VERSION	CURV-FLEX ROADMARKER CFGR-427	CARSONITE INC. 800/648-7916 TRAFFIC SAFETY 800/547-8518	11/14/96	1591	A	THE STANDARD DRW REQUIRES 4 LAG SCREWS TO ANCHOR UNIT.
00840.10	DELINEATOR - TYPE 4 ALT 1 GUARDRAIL VERSION	FLEXI-GUIDE 527 (FG-527)	PEXCO LLC-DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	07/09/98	1636	A	NTPEP TEST DATA LOOKED GOOD FOR STAND ALONE APPLICATIONS.
00840.10	DELINEATOR - TYPE 4 ALT 1 GUARDRAIL VERSION	TD9100 MODEL 510242 GUARDFLEX	THREE D TRAFFIC WORKS 877/843-9757	04/14/05	2696	A	
00840.10	DELINEATOR - TYPE 4 ALT 2	DELINEATOR TYPE 4 ALT 2	FRANKLIN INDUSTRIES 814/437-3726 TRAFFIC SAFETY 800/547-8518	12/18/12	4572	A	CLOSE TO REQUIRED DIMENSIONS STEEL

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00840.10	DELINEATOR - TYPE 5 BARRIER MARKER	ASTRO OPTICS JD-1 & JD-2	ASTRO OPTICS LLC 847/488-9151 GARY KINBERG 847/951-3915	06/09/11	726	A	PRISMATIC LENS ON PLASTIC MARKER. JD-1: SIDE MOUNT, JD-2: TOP MOUNT.
00840.10	DELINEATOR - TYPE 5 BARRIER MARKER	BARRIER TRAFFIC REFLECTOR 7" & 11" TALL	IRWIN HODSON COMPANY 503/419-4624	08/28/13	4666	A	ALUMINUM SUBSTRATE
00840.10	DELINEATOR - TYPE 5 BARRIER MARKER	PCBM-9CM BARRIER REFLECTOR	PEXCO LLC-DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	08/10/00	2267	A	PRISMATIC PLASTIC UNITS MOUNTED ON FRONT OF PLASTIC FLANGE.
00840.10	DELINEATOR - TYPE 6 BUTTERFLY	BUTTERFLY GR MARKER MODEL 8BO HI AND DG SHEETING	PEXCO LLC-DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	06/09/11	4343	A	BOLTED ON VERSION DO NOT ATTACH TO POST BOLT
00840.10	DELINEATOR - TYPE 6 BUTTERFLY	BUTTERFLY GR MARKER MODEL 8GO HI AND DG SHEETING	PEXCO LLC-DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	06/09/11	4344	A	GLUED ON VERSION DO NOT ATTACH TO POST BOLT
00840.10	DELINEATOR - TYPE 6 BUTTERFLY FOR GUARDRAIL	ASTRO OPTICS AGR-1 & AGR-2	ASTRO OPTICS LLC 847/488-9151 GARY KINBERG 847/951-3915	06/09/11	3136	A	PLASTIC UNIT THAT FITS IN THE W SHAPE OF THE GUARDRAIL. DO NOT ATTACH TO POST BOLT
00840.10	DELINEATOR - TYPE 6 BUTTERFLY FOR GUARDRAIL	BUTTERFLY REF. TAB CRYSTAL 2 SIDES HI AND DG SHEETING	UNIVERSAL INDUSTRIAL SALE, INC 801/785-0505	06/27/16	4958	A	BOLTED ON BANJO SLOT FOR BOLT 12 GAUGE GAURDRAIL MATERIAL DO NOT ATTACH TO POST BOLT
00840.10	DELINEATOR - TYPE 6 BUTTERFLY FOR GUARDRAIL	GBD12 HI AND DG SHEETING	ARTUK INC. 847/841-7050	12/05/18	5125	A	BOLTED ON BANJO SLOT FOR BOLT 12 GAUGE GAURDRAIL MATERIAL DO NOT ATTACH TO POST BOLT
00840.10	DELINEATOR - TYPE 7 BARRIER MARKER	LUCIOL SYSTEMS BIDIRECTIONAL LINEAR DELINEATION	LUCIOL SYSTEMS 248/690-9454	06/09/11	3470	A	MODEL & LENGTH A.D= 12 1/2' ; M.S= 27" E.X= 6 1/4' (1051111) CONDITIONAL APPROVAL EXTENDED. 9/2017

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00840.10	DELINEATOR REFLECTOR CENTER MOUNT FOR TYPES 1, 1U, & 4A2	3" CIRCULAR DISC	IRWIN HODSON COMPANY 503/419-4624	08/19/16	4889	A	ALUMINUM SIGN SUBSTRATE UNDER REFLECTIVE SHEETING, 3-M DIAMOND GRADE ROUND.
00840.10	DELINEATOR REFLECTOR CENTER MOUNT FOR TYPES 1, 1U, & 4A2	ASTRO OPTICS RT-90	ASTRO OPTICS LLC 847/488-9151 GARY KINBERG 847/951-3915	06/09/11	3851	A	PLASTIC PRISMATIC REFLEX UNIT. NOT FOR FLEXIBLE DELINEATORS. ROUND.
00850.00	REFLECTIVE ELEMENTS FOR PAVEMENT MARKINGS	OZARK ROADMARKING GLASS BEADS AASHTO M247 TYPE 1	OZARK MATERIALS, LLC 334/213-2995	08/18/20	5286	A	AASHTO M247-TYPE 1. COATED FOR PAINT AND THERMOPLASTIC
00850.00	REFLECTIVE ELEMENTS FOR PAVEMENT MARKINGS	SWARCO (AASHTO TYPE 1 M247)	SWARCO INDUSTRIES 931/388-5900 MARK COLOMBO: 314/729-7197 MFG: 254/562-9879 TECH: 314/729-7197	07/20/17	5060	A	AASHTO M247-TYPE 1. COATED FOR PAINT AND THERMOPLASTIC
00850.00	REFLECTIVE ELEMENTS FOR PAVEMENT MARKINGS MMA	SWARCO 3131 BLEND	SWARCO INDUSTRIES 931/388-5900 MARK COLOMBO: 314/729-7197 MFG: 254/562-9879 TECH: 314/729-7197	08/28/12	3894	A	COATED FOR USE WITH MMA
00850.00	REFLECTIVE ELEMENTS FOR PAVEMENT MARKINGS MMA	SWARCO 3132 BLEND	SWARCO INDUSTRIES 931/388-5900 MARK COLOMBO: 314/729-7197 MFG: 254/562-9879 TECH: 314/729-7197	08/28/12	3895	A	COATED FOR USE WITH MMA
00850.00	REFLECTIVE ELEMENTS FOR PAVEMENT MARKINGS RECYCLED - REGULAR	POTTERS	POTTERS INDUSTRIES, INC. 503/266-7814 303/375-1293	12/14/95	1448	A	AASHTO M247-TYPE 1. 5 LB OF BEADS PER GAL OF PAINT FOR ODOT MAINTENANCE:
00850.00	REFLECTIVE ELEMENTS FOR PAVEMENT MARKINGS THERMOPLASTIC	SWARCO 3130 BLEND	SWARCO INDUSTRIES 931/388-5900 MARK COLOMBO: 314/729-7197 MFG: 254/562-9879 TECH: 314/729-7197	10/14/10	3893	A	DESIGNED WITH A COATING THAT IS GOOD WITH THERMOPLASTIC MARKINGS.
00855.00	MARKER ADHESIVE - BITUMIN FLEXIBLE	CRAFCO FLEXIBLE BIT ADHESIVE FORMULA #34270	CRAFCO INC. 800/528-8242 GREG SHARP 503/284-4330	06/09/05	2853	Q	PERMANENT APPLICATIONS ONLY. TEST BY LOT. USE JACKETED DOUBLE BOILER W/ AGITATION

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00855.00	MARKER ADHESIVE - BITUMIN FLEXIBLE	HENRY # 184 FLEXIBLE DOTSTICK	HENRY CO. 800/851-1131 ALPINE PRODUCTS 800/591-9566	06/09/05	2876	Q	PERMANENT APPLICATIONS ONLY. TEST BY LOT. USE JACKETED DOUBLE BOILER W/ AGITATION
00855.00	MARKER ADHESIVE - BITUMIN STANDARD	CRAFCO BITUMINOUS ADHESIVE FORMULA #34269	CRAFCO INC. 800/528-8242 GREG SHARP 503/284-4330	05/08/97	238	Q	TEMPORARY APPLICATIONS ONLY.
00855.00	MARKER ADHESIVE - BITUMIN STANDARD	EVERGRIP-OR # 172542	GULF STATES ASPHALT CO. VERNON TURNER 800/662-0987	09/14/00	1807	Q	TEMPORARY APPLICATIONS ONLY.
00855.00	MARKER ADHESIVE - BITUMIN STANDARD	HENRY # 193 DOT STICK ADHESIVE	HENRY CO. 800/851-1131 ALPINE PRODUCTS 800/591-9566	10/09/08	2803	Q	TEMPORARY APPLICATIONS ONLY.
00855.00	MARKER ADHESIVE - EPOXY	FIRMMARKER	FORREST TECHNICAL COATINGS 503/502-3449 TRAFFIC SAFETY SUPPLY 503/235-8531	10/01/15	4924	Q	
00855.00	MARKER ADHESIVE - EPOXY	POLYCARB MARK 29	OLIN EPOXY POLY-CARB 800/225-5649 DAN PATACCA 216/536-7777	07/14/05	2476	Q	
00855.00	MARKER ADHESIVE - EPOXY	POLY-CARB MARK 29.9	OLIN EPOXY POLY-CARB 800/225-5649 DAN PATACCA 216/536-7777	05/12/11	4361	Q	
00855.00	PAVEMENT MARKER, RECESSED TYPE 1AR REFLECTORIZED ABRASIVE RESISTANT	3-M 290 SERIES	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	03/22/12	1632	A	SIZE 4" X 3.5" X 0.6" NOMINAL USE EPOXY ADHESIVE USE FLEX BIT ADHESIVE
00855.00	PAVEMENT MARKER, RECESSED TYPE 1AR, REFLECTORIZED.	STIMSONITE C40	ENNIS-FLINT 336/475-6600	01/03/19	5163	A	SIZE 4" X 1.9" X 0.5" NOMINAL USE FLEX BIT ADHESIVE REFLECTOR BODY WILL BE YELLOW OR WHITE TO MATCH THE PRIMARY LENS. NO BLACK BODY

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00855.00	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	APEX 921AR PAVEMENT MARKER	APEX UNIVERSAL 562/944-8878	09/17/14	4808	A	
00855.00	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED ABRASIVE RESISTANT	3-M 290 SERIES	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	03/22/12	1632	A	SIZE 4" X 3.5" X 0.6" NOMINAL USE EPOXY ADHESIVE USE FLEX BIT ADHESIVE
00855.00	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED ABRASIVE RESISTANT	3-M 290 SERIES	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	03/22/12	1632	A	SIZE 4" X 3.5" X 0.6" NOMINAL USE EPOXY ADHESIVE USE FLEX BIT ADHESIVE
00855.00	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED ABRASIVE RESISTANT	APEX 921AR PAVEMENT MARKER	APEX UNIVERSAL 562/944-8878	09/17/14	4808	A	
00855.00	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED ABRASIVE RESISTANT	STIMSONITE C80	ENNIS-FLINT 800/331-8118	04/08/14	4759	A	SIZE: 4.5" X 3.2" X 0.75" EPOXY OR BIT ADHESIVE
00855.00	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED, ABRASIVE RESISTANT	RAY-O-LITE ALL ACRYLIC ARC II WHITE; ARC1W; YELLOW; ARC2A	RAY-O-LITE, DIV OF PAC-TEC 800/848-7025 ALPINE PRODUCTS 253/638-4318 TRAFFIC SAFETY 800/547-8518	12/09/99	529	A	ABRASIVE RESISTANT VERSION IS MARKED WITH "ARC". BIT OR EPOXY ADHESIVE. SIZE: 4" X 4" X .7"
00855.00	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	DIAMOND BACK - POLYPROPYLENE	INTERSTATE SALES 800/237-7245	09/13/01	2235	A	APPROVED FOR USE WITH BITUMINOUS ADHESIVES ONLY. IS ON CALTRANS & WSDOT QPL'S 4" DIAMETER.
00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	TD5200-526859WFB/526859VFB	THREE D TRAFFIC WORKS 877/843-9757	04/14/11	3598	Q	28" TALL 18" & 24" FOR ADA USE ONLY
00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	CITY POST	PEXCO LLC - DAVIDSON TRAFFIC 877/835-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	05/15/17	5030	Q	28", 36", 48" TALL WHITE & YELLOW SOCKET AND SCREW IN MOUNTING

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00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	CITY POST (SM) SURFACE MOUNT	PEXCO LLC - DAVIDSON TRAFFIC 877/335-4638 STEVE LOOP 253/284-8000 CRAIG SCHULZ 253/284-8005 TRAFFIC SAFETY 800/547-8518	11/22/16	5005	Q	28", 36", 48" TALL WHITE & YELLOW 18" & 24" FOR ADA USE ONLY
00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	IRS 3" TUFF POST TUBULAR MARKER	IMPACT RECOVERY SYSTEMS 800/736-5256	01/26/12	4557	Q	36" & 48" Tall WHITE OR YELLOW
00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	TD5200-526950WFB	THREE D TRAFFIC WORKS 877/843-9757	04/14/11	3706	Q	WHITE - 36" TALL 18" & 24" FOR ADA USE ONLY
00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	TD5200-526963YFB	THREE D TRAFFIC WORKS 877/843-9757	04/14/11	3707	Q	YELLOW - 36" TALL 18" & 24" FOR ADA USE ONLY
00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	TD5200-527223WFB/527223YFB	THREE D TRAFFIC WORKS 877/843-9757	04/14/11	3596	Q	48" TALL 18" & 24" FOR ADA USE ONLY
00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	DURAPOST	SAFE-HIT CORP. 888/323-6374 DAN MCCARTHY 760/295-2699	01/21/14	1182	Q	28", 36" TALL 100% URETHANE PLASTIC, PIN AT BASE HOLDS TOP ON. PRODUCT IS 3" DIA. 18" & 24" FOR ADA USE ONLY
00860.00	LONGITUDINAL PAINT WATERBORNE	ENNIS ORW-21-M-4 983711	ENNIS PAINT 800/331-8118	12/12/02	2735	A	TEST DECK 730000029-01
00860.00	LONGITUDINAL PAINT WATERBORNE	ENNIS ORY-21-M-1 983712	ENNIS PAINT 800/331-8118	11/16/00	2360	A	YELLOW WATERBORNE TRAFFIC PNT. TEST DECK 730000042-99
00860.00	LONGITUDINAL PAINT WATERBORNE	HIGH BUILD WATERBORNE TRAFFIC PAINT 1116 YELLOW	SWARCO/COLORADO PAINT COPANY 303/388-9265	09/19/16	4998	A	

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00860.00	LONGITUDINAL PAINT WATERBORNE	HIGH BUILD WATERBORNE TRAFFIC PAINT 1110 WHITE	SWARCO/COLORADO PAINT COPANY 303/388-9265	09/19/16	4997	A	
00860.00	LONGITUDINAL PAINT WATERBORNE	LOW TEMP WATERBORNE TRAFFIC PAINT 985351 WHITE, 985352 YELLOW	ENNIS PAINT 800/331-8118	12/12/16	5019	A	LOW TEMPERATURE/FASTER NO TRACK TIME APPLICABLE
00860.00	LONGITUDINAL PAINT WATERBORNE	OZARK MATERIALS HP WATERBORNE PAINT 700 SERIES WHITE 17242, YELLOW 27242	OZARK MATERIALS, LLC 334/213-2995	12/29/20	5329	A	LOW TEMPERATURE/FASTER NO TRACK TIME APPLICABLE
00860.00	LONGITUDINAL PAINT WATERBORNE	SHERWIN-WILLIAMS HOTLINE TM2153 (5 GAL) TM2259 (55-275 GAL)	COLUMBIA PAINT A DIV OF SHERWIN WILLIAMS NEAL SHERMERHORN 832/444-9168	07/14/11	2366	A	INSTANT DRY ACRYLIC LATEX YELLOW TEST DECK 73000042-99 WAS COLUMBIA 17-123 CC
00860.00	LONGITUDINAL PAINT WATERBORNE	SHERWIN-WILLIAMS HOTLINE TM2152 (5 GAL) TM2248 (55-275 GAL)	COLUMBIA PAINT A DIV OF SHERWIN WILLIAMS NEAL SHERMERHORN 832/444-9168	07/14/11	2364	A	INSTANT DRY ACRYLIC LATEX WHITE TEST DECK 73000042-99 WAS COLUMBIA 17-123 WW
00860.00	LONGITUDINAL PAINT WATERBORNE	TMT PATHWAY O600W2 983721	ENNIS PAINT 800/331-8118 KLYNE MCCARTY 800/331-8118 111 JOHN STEFANI 503-569-0332	04/13/06	2371	A	FAST DRY ACRYLIC WATERBORNE WHITE TEST DECK 73000042-99
00860.00	LONGITUDINAL PAINT WATERBORNE	TMT PATHWAY O600Y3 983722	ENNIS PAINT 800/331-8118 KLYNE MCCARTY 800/331-8118 111 JOHN STEFANI 503-569-0332	04/13/06	2369	A	FAST DRY ACRYLIC WATERBORNE YELLOW TEST DECK 73000042-99
00860.00	LONGITUDINAL PAINT WATERBORNE	WATERBORNE TRAFFIC PAINT 1160 WHITE	SWARCO/COLORADO PAINT COPANY 303/388-9265	09/19/16	4999	A	
00860.00	LONGITUDINAL PAINT WATERBORNE	WATERBORNE TRAFFIC PAINT 1166 YELLOW	SWARCO/COLORADO PAINT COPANY 303/388-9265	09/19/16	5000	A	

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00860.00	LONGITUDINAL PAINT WATERBORNE	WATERBORNE TRAFFIC PAINT LOW TEMPERATURE 1196 YELLOW	SWARCO/COLORADO PAINT COPANY 303/388-9265	09/19/16	5002	A	LOW TEMPERATURE/FASTER NO TRACK TIME APPLICABLE
00860.00	LONGITUDINAL PAINT WATERBORNE	WATERBORNE TRAFFIC PAINT LOW TEMPERATURE 1190 WHITE	SWARCO/COLORADO PAINT COPANY 303/388-9265	09/19/16	5001	A	LOW TEMPERATURE/FASTER NO TRACK TIME APPLICABLE
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED METHYL METHACRYLATE	DURASET 3 - WHITE (999441W2)	ENNIS PAINT 800/331-8118	11/12/09	3069	Q	TESTED ON ROUTE 22.8/17/04 #2.
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED METHYL METHACRYLATE	DURASET 3 - WHITE (999441W3)	ENNIS PAINT 800/331-8118	11/12/09	3070	Q	TESTED ON ROUTE 22.8/17/04 #3.
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED METHYL METHACRYLATE	DURASET 3 - YELLOW (999441Y2)	ENNIS PAINT 800/331-8118	11/12/09	3074	Q	TESTED ON ROUTE 22.8/17/04 #7.
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED METHYL METHACRYLATE	DURASET 3 - YELLOW (999441Y3)	ENNIS PAINT 800/331-8118	11/12/09	3075	Q	TESTED ON ROUTE 22.8/17/04 #8.
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED METHYL METHACRYLATE	EXTRABRITE (WHITE AND YELLOW)	BRITE PATH CORPORATION 503/285-8271	04/16/18	3825	Q	INTEGRAL BEADS: TYPE 1 DROP BEADS SWARCO 3132 50% SWARCOPLUS 9 50% 0.8#/10FT*2
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED METHYL METHACRYLATE	ROADZILLA MMA 4:1 (WHITE AND YELLOW)	AEXCEL CORPORATION 440/974-3800	06/28/18	4228	Q	25W-G011 WHITE, 25Y-G014 YELLOW 95W-D011 CATALYST BEADS: INTEGRAL TYPE 1 DROP: SWARCO 3132 1.2#/FT*2
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-651E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4461	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2

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00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-650E WHITE	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4460	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (W) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3662	Q	2010 TEST DECK.
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (Y) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3663	Q	2010 TEST DECK.
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED THERMOPLASTIC	ALTA ALL SEASON THERMOPLASTIC 250E WHITE & 251E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	07/20/17	5062	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3130 AND 3M SERIES 90
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED THERMOPLASTIC	AQUALITE - WHITE (884411)	ENNIS PAINT 800/331-8118	09/09/10	1348	Q	THERMOPLASTIC LINE WITH BUMPS BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED THERMOPLASTIC	AQUALITE - YELLOW (885301)	ENNIS PAINT 800/331-8118	10/14/10	3081	Q	TESTED ON ROUTE 22 8/17/04 #14 BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED THERMOPLASTIC	PERMALINE - WHITE (894029) PRIMERLESS	ENNIS PAINT 800/331-8118	09/09/10	1778	Q	MFG SAYS PRODUCT MAY BE APPLIED W/O PRIMER. 120 MILS AS SPECIFIED. BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED GROOVED NON-PROFILED THERMOPLASTIC	PERMALINE - YELLOW (865300)	ENNIS PAINT 800/331-8118	09/09/10	3080	Q	TESTED ON ROUTE 22 8/17/04 #13 BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED METHYL METHACRYLATE	DURASET 3 - WHITE (699441W2)	ENNIS PAINT 800/331-8118	11/12/09	3069	Q	TESTED ON ROUTE 22 8/17/04 #2.

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00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED METHYL METHACRYLATE	DURASET 3 - WHITE (999441W3)	ENNIS PAINT 800/331-8118	11/12/09	3070	Q	TESTED ON ROUTE 22.8/1704 #3.
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED METHYL METHACRYLATE	DURASET 3 - YELLOW (999441Y2)	ENNIS PAINT 800/331-8118	11/12/09	3074	Q	TESTED ON ROUTE 22.8/1704 #7.
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED METHYL METHACRYLATE	DURASET 3 - YELLOW (999441Y3)	ENNIS PAINT 800/331-8118	11/12/09	3075	Q	TESTED ON ROUTE 22.8/1704 #8.
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED METHYL METHACRYLATE	EXTRABRITE (WHITE AND YELLOW)	BRITE PATH CORPORATION 503/285-8271	04/16/18	3825	Q	INTEGRAL BEADS: TYPE 1 DROP BEADS SWARCO 3132 50% SWARCOPLUS 9 50% 0.8#/10FT*2
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED METHYL METHACRYLATE	ROADZILLA MMA 4:1 (WHITE AND YELLOW)	AEXCEL CORPORATION 440/974-3800	06/28/18	4228	Q	25W-G011 WHITE, 25Y-G014 YELLOW 95W-D011 CATALYST BEADS: INTEGRAL TYPE 1 DROP: SWARCO 3132 1.2#/FT*2
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-651E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4461	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-650E WHITE	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4460	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (W) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3862	Q	2010 TEST DECK.
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (Y) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3863	Q	2010 TEST DECK.

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 JANUARY 2021 (AMENDED MARCH 8, 2021)**

<u>STANDARD SPEC #</u>	<u>CATEGORY</u>	<u>PRODUCT NAME</u>	<u>LOCAL REPRESENTATIVE AND/OR MANUFACTURER</u>	<u>EFFECTIVE DATE</u>	<u>PRODUCT NUMBER</u>	<u>LIST</u>	<u>REMARKS</u>
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED THERMOPLASTIC	ALTA ALL SEASON THERMOPLASTIC 250E WHITE & 251E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	07/20/17	5062	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3130 AND 3M SERIES 90
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED THERMOPLASTIC	AQUALITE - WHITE (884411)	ENNIS PAINT 800/331-8118	09/09/10	1348	Q	THERMOPLASTIC LINE WITH BUMPS BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED THERMOPLASTIC	AQUALITE - YELLOW (885301)	ENNIS PAINT 800/331-8118	10/14/10	3081	Q	TESTED ON ROUTE 22.8/17/04 #14 BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED THERMOPLASTIC	PERMALINE - WHITE (894029) PRIMERLESS	ENNIS PAINT 800/331-8118	09/09/10	1778	Q	MFG SAYS PRODUCT MAY BE APPLIED W/O PRIMER. 120 MILS AS SPECIFIED. BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED SURFACE NON-PROFILED THERMOPLASTIC	PERMALINE - YELLOW (885300)	ENNIS PAINT 800/331-8118	09/09/10	3080	Q	TESTED ON ROUTE 22.8/17/04 #13 BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	DURASET 3 - WHITE (999441W2)	ENNIS PAINT 800/331-8118	11/12/09	3069	Q	TESTED ON ROUTE 22.8/17/04 #2.
00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	DURASET 3 - WHITE (999441W3)	ENNIS PAINT 800/331-8118	11/12/09	3070	Q	TESTED ON ROUTE 22.8/17/04 #3.
00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	DURASET 3 - YELLOW (999441Y2)	ENNIS PAINT 800/331-8118	11/12/09	3074	Q	TESTED ON ROUTE 22.8/17/04 #7.
00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	DURASET 3 - YELLOW (999441Y3)	ENNIS PAINT 800/331-8118	11/12/09	3075	Q	TESTED ON ROUTE 22.8/17/04 #8.

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00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	OPTIMARK - BRIDGELINE YELLOW SWARCO 3132	ROAD OPTIC INC. 503/871-1471	03/02/15	3835	Q	2012 TEST DECK MY0031
00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	OPTIMARK - BRIDGELINE WHITE SWARCO 3132	ROAD OPTIC INC. 503/871-1471	03/02/15	3835	Q	2012 TEST DECK MW0031
00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	PROBRITE (WHITE AND YELLOW)	BRITE PATH CORPORATION 503/285-8271	04/16/18	3824	Q	INTEGRAL BEADS: TYPE 1 DROP BEADS SWARCO 3132 50% SWARCOPLUS 9 50% 0.8#/10FT*2
00865.00	METHOD A EXTRUDED SURFACE PROFILED METHYL METHACRYLATE	ROADZILLA MMA 4:1 (WHITE AND YELLOW)	AEXCEL CORPORATION 440/974-3800	06/28/18	4228	Q	25W-G007PRO WHITE, 25Y-G006PRO YELLOW 95W-D006PRO CATALYST BEADS: INTEGRAL TYPE 1 DROP: SWARCO 3132 1.2#/FT*2
00865.00	METHOD A EXTRUDED SURFACE PROFILED THERMOPLASTIC	AQUALITE - WHITE (884411)	ENNIS PAINT 800/331-8118	09/09/10	1348	Q	THERMOPLASTIC LINE WITH BUMPS BEADS: SWARCO 3130
00865.00	METHOD A EXTRUDED SURFACE PROFILED THERMOPLASTIC	AQUALITE - YELLOW (885301)	ENNIS PAINT 800/331-8118	10/14/10	3081	Q	TESTED ON ROUTE 22.8/17/04 #14 BEADS: SWARCO 3130
00865.00	METHOD B SPRAYED GROOVED NON-PROFILED METHYL METHACRYLATE	SPRAYBRITE (WHITE AND YELLOW)	BRITE PATH CORPORATION 503/285-8271	04/16/18	3826	Q	INTEGRAL BEADS: TYPE 1 DROP BEADS SWARCO 3132 50% SWARCOPLUS 9 50% 0.8#/10FT*2
00865.00	METHOD B SPRAYED SURFACE	DURASET 3 - WHITE (699441W2)	ENNIS PAINT 800/331-8118	11/12/09	3069	Q	TESTED ON ROUTE 22.8/17/04 #2.
00865.00	METHOD B SPRAYED SURFACE	DURASET 3 - WHITE (699441W3)	ENNIS PAINT 800/331-8118	11/12/09	3070	Q	TESTED ON ROUTE 22.8/17/04 #3.
	METHOD B SPRAYED SURFACE						
	METHOD B SPRAYED SURFACE						

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00865.00	METHOD B SPRAYED SURFACE	DURASET 3 - YELLOW (999441Y2)	ENNIS PAINT 800/331-8118	11/12/09	3074	Q	TESTED ON ROUTE 22.8/17/04 #7.
	METHYL METHACRYLATE						
00865.00	METHOD B SPRAYED SURFACE	DURASET 3 - YELLOW (999441Y3)	ENNIS PAINT 800/331-8118	11/12/09	3075	Q	TESTED ON ROUTE 22.8/17/04 #8.
	METHYL METHACRYLATE						
00865.00	METHOD B SPRAYED SURFACE	DURASET 5 - WHITE (999655W)	ENNIS PAINT 800/331-8118	01/14/10	2826	Q	TESTED DECK '03 LINE 27 & 28. CODE: 999655W CAT: 999655C 4:1 RATIO.
	METHYL METHACRYLATE						
00865.00	METHOD B SPRAYED SURFACE	DURASET TYPE 5 (999655-Y1)	ENNIS PAINT 800/331-8118	05/13/10	4014	Q	TESTED ON ROUTE 22.2007 #89
	METHYL METHACRYLATE						
00865.00	METHOD B SPRAYED SURFACE	3-M ALL WEATHER THERMO HP (W) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3662	Q	2010 TEST DECK.
	THERMOPLASTIC						
00865.00	METHOD B SPRAYED SURFACE	3-M ALL WEATHER THERMO HP (Y) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3663	Q	2010 TEST DECK.
	THERMOPLASTIC						
00865.00	METHOD B SPRAYED SURFACE	ALTA ALL SEASON THERMOPLASTIC 250E WHITE & 251E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	07/20/17	5062	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3130 AND 3M SERIES 90
	THERMOPLASTIC						
00865.00	METHOD B SPRAYED SURFACE	PERMALINE - WHITE (894029) PRIMERLESS	ENNIS PAINT 800/331-8118	09/09/10	1778	Q	MFG SAYS PRODUCT MAY BE APPLIED W/O PRIMER. 120 MILS AS SPECIFIED. BEADS: SWARCO 3130
	THERMOPLASTIC						
00865.00	METHOD B SPRAYED SURFACE	PERMALINE - YELLOW (865300)	ENNIS PAINT 800/331-8118	09/09/10	3080	Q	TESTED ON ROUTE 22.8/17/04 #13 BEAD: SWARCO 3130
	THERMOPLASTIC						

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00865.00	METHOD B SPRAYED SURFACE NON-PROFILED METHYL METHACRYLATE	SPRAYBRITE (WHITE AND YELLOW)	BRITE PATH CORPORATION 503/285-8271	04/16/18	3826	Q	INTEGRAL BEADS: TYPE 1 DROP BEADS SWARCO 3132 50% SWARCOPLUS 9 50% 0.8#/10FT*2
00865.00	METHOD B SPRAYED SURFACE NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-651E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4461	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD B SPRAYED SURFACE NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-650E WHITE	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4460	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD C TAPE ROLLED IN & GROOVED NON-PATTERNED	BRITE-LINE 1000 WHITE & YELLOW	BRITE-LINE TECH: 888/375-1293 GORDON SILL 720/473-6217 PAT DONNELLY: 918/691-1248 BILL JUBAK: 702/649-9223	11/12/09	789	Q	NO F MIX APPLICATIONS. MAY NEED PRIMER. WAS METHOD G
00865.00	METHOD C TAPE ROLLED IN & GROOVED PATTERNED	3-M STAMARK 3801 ES SERIES WHITE; 380IES & YELLOW; 381IES	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	09/11/08	2934	Q	2005 TEST DECK. MET THE WARRANTY REQUIREMENTS. EXTRA STICKY VERSION. WAS METHOD G
00865.00	METHOD C TAPE ROLLED IN & GROOVED PATTERNED. (CONTRAST)	3-M STAMARK 380-5	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	07/13/00	1410	Q	CONTRAST TAPE WITH BLACK ON EACH SIDE OF 4" WHITE. WAS METHOD G
00865.00	METHOD C TAPE ROLLED IN & GROOVED PATTERNED. (CONTRAST) WET WEATHER	3-M SERIES 380AW, 381AW, & 380-5AW	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	08/11/11	3915	Q	2010 TEST DECK # 47 & 48. MICRO-CRYSTALLINE BEADS 3-M SERIES 380-5AW CONTRAST WAS METHOD G
00865.00	METHOD D WET WEATHER EXTRUDED/GROOVED NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-650E WHITE	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4460	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD D WET WEATHER EXTRUDED/GROOVED NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-651E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4461	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2

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00865.00	METHOD D WET WEATHER EXTRUDED/GROOVED NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (W) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3662	Q	2010 TEST DECK.
00865.00	METHOD D WET WEATHER EXTRUDED/GROOVED NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (Y) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3663	Q	2010 TEST DECK.
00865.00	METHOD D WET WEATHER EXTRUDED/GROOVED NON-PROFILED THERMOPLASTIC	ALTA ALL SEASON THERMOPLASTIC 250E WHITE & 251E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	07/20/17	5062	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3130 AND 3M SERIES 90
00865.00	METHOD D WET WEATHER EXTRUDED/SURFACE NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-650E WHITE	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4460	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD D WET WEATHER EXTRUDED/SURFACE NON-PROFILED MMA	ALTA ALL SEASON MMA ASM-651E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	12/18/18	4461	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3132 8#/100ft2 3M SERIES 50 6.6#/100ft2
00865.00	METHOD D WET WEATHER EXTRUDED/SURFACE NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (W) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3662	Q	2010 TEST DECK.
00865.00	METHOD D WET WEATHER EXTRUDED/SURFACE NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (Y) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3663	Q	2010 TEST DECK.
00865.00	METHOD D WET WEATHER EXTRUDED/SURFACE NON-PROFILED THERMOPLASTIC	ALTA ALL SEASON THERMOPLASTIC 250E WHITE & 251E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	07/20/17	5062	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3130 AND 3M SERIES 90
00865.00	METHOD D WET WEATHER SPRAYED/GROOVED NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (W) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3662	Q	2010 TEST DECK.

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00865.00	METHOD D WET WEATHER SPRAYED/GROOVED NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (Y) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3663	Q	2010 TEST DECK.
00865.00	METHOD D WET WEATHER SPRAYED/GROOVED NON-PROFILED THERMOPLASTIC	ALTA ALL SEASON THERMOPLASTIC 250E WHITE & 251E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	07/20/17	5062	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3130 AND 3M SERIES 90
00865.00	METHOD D WET WEATHER SPRAYED/SURFACE NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (W) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3662	Q	2010 TEST DECK.
00865.00	METHOD D WET WEATHER SPRAYED/SURFACE NON-PROFILED THERMOPLASTIC	3-M ALL WEATHER THERMO HP (Y) ALL WEATHER CERAMIC 90 BEAD	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	06/10/10	3663	Q	2010 TEST DECK.
00865.00	METHOD D WET WEATHER SPRAYED/SURFACE NON-PROFILED THERMOPLASTIC	ALTA ALL SEASON THERMOPLASTIC 250E WHITE & 251E YELLOW	ALTA TRAFFIC SOLUTIONS 503/482-7500	07/20/17	5062	Q	INTEGRAL BEADS AASHTO M247 TYPE 1 DROP ON BEADS SWARCO 3130 AND 3M SERIES 90
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY GROOVED HI-BUILD PAINT 25 MILS	3-M AWP SERIES 90 LARGE BEAD BASE	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	08/13/09	3917	Q	3M REFLECTIVE ELEMENTS 90% WET & 10% DRY
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY GROOVED PLURAL COMPONENT EPOXY	EPOPLEX LS65QS WHITE & YELLOW	EPOPLEX CORP BOB CASEY 801/619-1442	06/10/15	4669	Q	TEST DECK 2012 TWO REFLECTIVE ELEMENT DROP ON OPTIONS. (1) VISIBEAD & POTTER TYPE 1 50%/50% (2) VISIMAX & POTTERS TYPE 1 50%/50%
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY GROOVED PLURAL COMPONENT EPOXY	MFUA-10 3180 WHITE & 3186 YELLOW	SWARCO/COLORADO PAINT COMPANY 919/208-3360	06/24/16	4954	Q	12# TYPE 1 & 12# TYPE 3 PER GALLON
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY SURFACE HI-BUILD PAINT 25 MILS	3-M AWP SERIES 90 LARGE BEAD BASE	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	08/13/09	3917	Q	3M REFLECTIVE ELEMENTS 90% WET & 10% DRY

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00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY SURFACE HI-BUILD PAINT 25 MILS	ENNIS HB WATERBORNE 985221 WHITE	ENNIS PAINT 800/331-8118	01/14/10	4008	Q	TEST DECK: 2005 - LINE# 46.
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY SURFACE HI-BUILD PAINT 25 MILS	ENNIS HB WATERBORNE 985222 YELLOW LF	ENNIS PAINT 800/331-8118	01/14/10	4009	Q	TEST DECK: 2005 - LINE# 47.
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY SURFACE PLURAL COMPONENT EPOXY	EPOPLEX LS85QS WHITE & YELLOW	EPOPLEX CORP BOB CASEY 801/619-1442	06/10/15	4669	Q	TEST DECK 2012 TWO REFLECTIVE ELEMENT DROP ON OPTIONS. (1) VISIBEAD & POTTER TYPE 1 50%/50% (2) VISIMAX & POTTERS TYPE 1 50%/50%
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY SURFACE PLURAL COMPONENT EPOXY	MFUA-10 3180 WHITE & 3186 YELLOW	SWARCO/COLORADO PAINT COMPANY 919/208-3360	06/24/16	4954	Q	12# TYPE 1 & 12# TYPE 3 PER GALLON
00866.00	LONGITUDINAL, HP METHOD 2 - SPRAY SURFACE PLURAL COMPONENT POLYUREA, 20 MILS, SPRAY	EPOPLEX LS90	EPOPLEX CORP BOB CASEY 801/619-1442	11/12/09	2817	Q	TEST DECK: 2006 63 & 64
00867.00	TRANSVERSE MARKING TYPE A STANDARD HOT Poured THERMOPLASTIC	PERMALINE 884029 PRIMERLESS	ENNIS PAINT 800/331-8118	09/09/10	1778	Q	WHITE: 884029 NO PRIMER NEEDED APPLY AT 120 MIL THICKNESS. BEADS: SWARCO 3130
00867.00	TRANSVERSE MARKING TYPE B STANDARD TYPE B-HS HIGH SKID PERFORMED THERMO 125 MILS	PREMARK VIZIGRIP	FLINT TRADING INC-(DBA) ENNIS-FLINT 336/475-6600 STACY SEMANSKEE 425/760-4452	12/11/03	2474	Q	NO PRE-HEAT SIMILAR TO PREMARK PLUS BUT HAS ADDED SKID RESISTANT GRIT. BEADS: POTTERS AASHTO BEADS
00867.00	TRANSVERSE MARKING TYPE B STANDARD PERFORMED THERMOPLASTIC 125 MILS	HOTAPE (125 MILS)	FLINT TRADING INC-(DBA) ENNIS-FLINT 336/475-6600 STACY SEMANSKEE 425/760-4452	08/10/06	703	Q	HEAT PAVEMENT PRIOR TO INSTALL BEADS: POTTERS AASHTO BEADS
00867.00	TRANSVERSE MARKING TYPE B STANDARD PERFORMED THERMOPLASTIC 125 MILS	PREMARK	FLINT TRADING INC-(DBA) ENNIS-FLINT 336/475-6600 STACY SEMANSKEE 425/760-4452	07/08/04	2230	Q	NO PRE-HEAT NAME CHANGED FROM OTD-3. BEADS: POTTERS AASHTO BEADS TEST DECK 9/99

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00867.00	TRANSVERSE MARKING TYPE B STANDARD PERFORMED THERMOPLASTIC 125 MILS	PREMARK XF	FLINT TRADING INC-(DBA) ENNIS-FLINT 336/475-6600 STACY SEMANSKEE 425/760-4452	03/03/20	5064	Q	NO PRE-HEAT WHITE (FNP125-397W-6) YELLOW (FNP125-397Y-6)
00867.00	TRANSVERSE MARKING TYPE B STANDARD TYPE B-HS HIGH SKID 125 MILS	PREMARK XF VIZIGRIP	FLINT TRADING INC-(DBA) ENNIS-FLINT 336/475-6600 STACY SEMANSKEE 425/760-4452	03/03/20	5065	Q	NO PRE-HEAT WHITE (FNP125-397W/VG-6)
00867.00	TRANSVERSE MARKING TYPE B STANDARD TYPE B-HS HIGH SKID PERFORMED THERMO 125 MILS	HOTAPE SKID OPTIC 125 MILS	FLINT TRADING INC-(DBA) ENNIS-FLINT 336/475-6600 STACY SEMANSKEE 425/760-4452	07/31/12	4225	Q	HEAT PAVEMENT PRIOR TO INSTALL BEADS; POTTERS AASHTO BEADS
00867.00	TRANSVERSE MARKINGS TYPE B STANDARD	OPTAMARK	GEVEKO MARKINGS 770/543-8438	01/10/17	5020	Q	NO PRE-HEAT WHITE AND YELLOW
00867.00	PERFORMED THERMO 125 MILS						
00867.00	TRANSVERSE MARKINGS TYPE B STANDARD	SWARCO PERFORMED THERMOPLASTIC	SWARCO INDUSTRIES 931/388-5900 MARK COLOMBO: 314/729-7197 MFG: 254/562-9879 TECH: 314/729-7197	03/09/20	5063	Q	NO PRE-HEAT WHITE AND YELLOW
00867.00	TRANSVERSE MARKINGS TYPE B STANDARD TYPE B-HS HIGH SKID PERFORMED THERMO 125 MILS	ALTA ALL-SEASON SERIES 100-PT	ALTA TRAFFIC SOLUTIONS INC 503/482-7500	08/02/11	4432	Q	HEAT PAVEMENT PRIOR TO INSTALL INTEGRAL BEADS SWARCO 3130 SURFACE APPLIED SWARCO 3130 DROP ON BEAD SWARCO 3130
00867.00	TRANSVERSE MARKINGS TYPE B STANDARD TYPE B-HS HIGH SKID PERFORMED THERMO 125 MILS	OPTATRAC (OPTAMARK WITH OPTATRAC)	GEVEKO MARKINGS 770/543-8438	07/06/17	5061	Q	NO PRE-HEAT WHITE AND YELLOW
00868.00	COLOR LANE MARKING	ALTA-GRIP AG-50	ALTA TRAFFIC SOLUTIONS 503/482-7500	06/21/19	5208	Q	ODOT APPROVED COLOR IS GREEN.
00868.00	COLOR LANE MARKING	COLORSAFE	TRANSPO INDUSTRIES 914/636-1000	06/21/19	5207	Q	ODOT APPROVED COLOR IS GREEN.

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00868.00	COLOR LANE MARKING	CYCLEGRIP MMAXX 999660G	ENNIS-FLINT 336/475-6600	06/21/19	5210	Q	ODOT APPROVED COLOR IS GREEN.
00868.00	COLOR LANE MARKING	PREMARK BIKE LANE GREEN	ENNIS-FLINT 336/475-6600	06/21/19	5209	Q	ODOT APPROVED COLOR IS GREEN.
00907.10	BIRD SPIKES	BIRD SPIKE 2001	BIRD-B-GONE 800/392-6915	02/14/02	2523	A	STAINLESS STEEL VERSION.
00907.10	BIRD SPIKES	NIXALITE MODEL S	NIXALITE OF AMERICA INC. 800/624-1189	02/14/02	2522	A	STAINLESS STEEL VERSION.
00930.10	PSST - SIGN SUPPORT	ANCHOR TUBE HEAVY WALL ANCHOR 2 1/2" & 3" x 36" -7GA	SERVICE STEEL 503/224/9500 TRAFFIC SAFETY SUPPLY CO INC 800/547/8518	07/14/11	4430	A	
00930.10	PSST - SIGN SUPPORT	ONE PIECE TUBE ANCHOR HEAVY WALL ANCHOR	PACIFIC PRODUCTS 800/320-3230 TRAFFIC SAFETY 800/547-8518	05/13/10	3730	A	2.5" X 2.5" & 3" X 3" 7GA 36" ANCHORS FOR 2 & 2.5" POSTS PER ODOT TM687. MUST BE ASTM A500 GR B & GALV PER ASTM A123
00930.10	PSST - SIGN SUPPORT	SQR-LOC PERFORATED SQUARE TRAFFIC POST	TRINITY HIGHWAY PRODUCTS, LLC. 214-801-4908	08/08/17	5053	A	G90, 10 GAUGE 2 1/2" G90, 12 GAUGE, 1 1/2", 1 3/4", 2" 2 1/4"
00930.10	PSST - SIGN SUPPORT	TELESPAR	ALLIED TUBE & CONDUIT 708/225-2121 TRAFFIC SAFETY 800/547-8518	04/14/16	4932	A	G90, 12 GAUGE 2", 2 1/4", 2 1/2" G90 10 GAUGE 2 1/2"
00930.10	PSST - SLIP BASE	RED-TORQUE MODEL 280 (GALV) MODEL: RT8UX-25T36C-G 8" R-T	XCESSORIES SQUARED DEV & MFG 217/438-3535	10/14/10	4156	A	HARDWARE ON MFG#021510. TOP ASSEMBLY ON MFG# 021910. BOTTOM BASE ON MFG#SB8-CTA-36G ASSEMBLY MUST BE GALVANIZED.

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00990.10	HOT-MELT LOOP SEALANT EPOXY	EAS-14	QCM COMPANY 800/321-0170 930 S. CENTRAL KENT, WA 98052	05/01/88	762	A	AC OR PCC. EPOXY, TYPES 1 & 2; FOR HILLS & FLAT GRADES. DAMP BUT NOT WET. SPECS REQ. 1 YR WARRANTY PAST JOB ACCEPTANCE.
00990.10	HOT-MELT LOOP SEALANT HOT MELT ASPHALT	BJ SUPER	DYNAMIC SURFACE APPLICATIONS 800/491-5663 NORTHWEST JOINTS 503/703-0785 WAS LAFARGE NOW DSA	05/13/04	2926	A	POLYMER MODIFIED ASPHALTIC BINDER.
00990.10	HOT-MELT LOOP SEALANT HOT MELT ASPHALT	CRAFCO 34271 LOOP SEALANT	CRAFCO INC. 800/528-8242 GREG SHARP 503/284-4330	02/10/00	143	A	AC OR PCC-HOT MELT, RUBBERIZED ASPHALT. HI TEMP CAN MELT WIRE INSULATION. CLEAN & DRY. (WAS DISTRIBUTED BY MSI)
00990.10	HOT-MELT LOOP SEALANT HOT MELT ASPHALT	DURAFLEX DETECTOR LOOP SEALANT #760	HENRY CO. 800/851-1131 ALPINE PRODUCTS 800/591-9466 916/849-9908	08/14/03	2804	A	
00990.10	HOT-MELT LOOP SEALANT POLYESTER	BONDO P 6061	3-M TRAFFIC 404/661-1875 WAS BONDO CORP 800/241-3386	08/12/10	879	A	POLYESTER. IT'S POURABLE; SELF LEVELING, ASSURES PROTECTION TO WIRES. SPECS. REQ. 1 YEAR WARRANTY PAST JOB ACCEPTANCE.
00990.10	HOT-MELT LOOP SEALANT POLYESTER	BONDO P-606V	3-M TRAFFIC 404/661/1875 ADVANCED TRAFFIC PRODUCTS 425/347/6308	12/30/11	4348	A	POURABLE POLYESTER CURABLE BY FURNISHED MEKP
01010.03	SCF-DISSOLVED METALS STORMWATER CONTROL FACIL	BIOPD BIOFILTER SYSTEM 14 MODELS	OLDCASTLE INFRASTRUCTURE 707/387-5633	12/20/19	5225	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION. 1.6 GMP/SQFT OF MEDIA, SA MEDIA MIN 18IN
01010.03	SCF-DISSOLVED METALS STORMWATER CONTROL FACIL	FILTERRA BIORETENTION SYSTEM	FILTERRA BIORETENTION SYSTEMS 866/349-3458 (AMERICAST)	01/14/10	3703	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-DISSOLVED METALS STORMWATER CONTROL FACIL	MODULAR WETLAND SYSTEMS	MODULAR WETLAND SYSTEM 760/433-7640	07/28/14	4765	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.

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01010.03	SCF-DISSOLVED METALS STORMWATER CONTROL FACIL	MODULAR WETLAND SYSTEMS	MODULAR WETLAND SYSTEM 760/433-7640	07/28/14	4765	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-OIL TREATMENT STORMWATER CONTROL FACIL	FILTERRA BIORETENTION SYSTEM	FILTERRA BIORETENTION SYSTEMS 866/349-3458 (AMERICAST)	01/14/10	3703	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-OIL TREATMENT STORMWATER CONTROL FACIL	MODULAR WETLAND SYSTEMS	MODULAR WETLAND SYSTEM 760/433-7640	07/28/14	4765	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-PHOSPHOROUS TREATMENT STORMWATER CONTROL FACIL	BAY FILTER	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDANIER 360/798-3731 WAS BAY SAVER, INC	07/10/08	3588	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-PHOSPHOROUS TREATMENT STORMWATER CONTROL FACIL	BIOPOD BIOFILTER SYSTEM 14 MODELS	OLDCASTLE INFRASTRUCTURE 707/387-5633	12/20/19	5225	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION. 1.6 GMP/SQFT OF MEDIA, SA MEDIA MIN 18IN
01010.03	SCF-PHOSPHOROUS TREATMENT STORMWATER CONTROL FACIL	FILTERRA BIORETENTION SYSTEM	FILTERRA BIORETENTION SYSTEMS 866/349-3458 (AMERICAST)	06/25/12	3703	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-PHOSPHOROUS TREATMENT STORMWATER CONTROL FACIL	THE KRACKEN MEMBRANE FILTER	BIO CLEAN ENVIRONMENTAL A FORTERRA COMPANY 206/595-6906	12/18/20	5268	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION. 0.04353 GPM/SQFT
01010.03	SCF-SEDIMENT PRE-TREAT STORMWATER CONTROL FACIL	CONTINUOUS DEFLECTIVE SEPARATOR (CDS)	CONTECH STORMWATER SOLUTIONS 503/258-3105	09/11/08	3690	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SEDIMENT PRE-TREAT STORMWATER CONTROL FACIL	DOWNSTREAM DEFENDER	HYDRO INTERNATIONAL 207/321-3741 OR 207/756-6200	07/10/08	2001	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.

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01010.03	SCF-SEDIMENT PRE-TREAT STORMWATER CONTROL FACIL	FILTERRA BIORETENTION SYSTEM	FILTERRA BIORETENTION SYSTEMS 866/349-3458 (AMERICAST)	01/08/09	3703	A	NOT ON WSDOE APPROVED LIST
01010.03	SCF-SEDIMENT PRE-TREAT STORMWATER CONTROL FACIL	MODULAR WETLAND SYSTEMS	MODULAR WETLAND SYSTEM 760/433-7640	07/28/14	4765	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SEDIMENT PRE-TREAT STORMWATER CONTROL FACIL	VORTECHS SYSTEM	CONTECH STORMWATER SOLUTIONS 503/258-3105	09/11/08	3693	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SEDIMENT PRE-TREATMENT STORMWATER CONTROL FACIL	STORMCEPTOR	RINKER MATERIALS 800/909-7763 PETER VAN TILBURG 503/572-9894	04/08/10	1696	A	SEDIMENT CONTAINMENT.CLEAN-OUT IS BY VACUUM TRUCK. CONSULT WITH GEOHYDRO.
01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	BAY FILTER	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDANIER 360/798-3731 WAS BAY SAVER, INC	07/10/08	3588	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	BIPOD BIOFILTER SYSTEM 14 MODELS	OLDCASTLE INFRASTRUCTURE 707/387-5633	12/20/19	5225	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION. 1.6 GMP/SQFT OF MEDIA, SA MEDIA MIN 18IN
01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	FILTERRA BIORETENTION SYSTEM	FILTERRA BIORETENTION SYSTEMS 866/349-3458 (AMERICAST)	01/14/10	3703	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	FLOGARD PERK FILTER	KRISTAR ENTERPRISES 951/970-0728	04/12/13	4605	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	MEDIA FILTRATION SYSTEM	CONTECH STORMWATER SOLUTIONS 503/258-3105	09/11/08	3691	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.

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01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	MODULAR WETLAND SYSTEMS	MODULAR WETLAND SYSTEM 760/433-7640	07/28/14	4765	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	STORMWATER MGT STORMFILTER	CONTECH STORMWATER SOLUTIONS 503/258-3105	09/11/08	3692	A	USE MEDIA ZPG CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION.
01010.03	SCF-SUSPENDED SOLIDS STORMWATER CONTROL FACIL	THE KRACKEN MEMBRANE FILTER	BIO CLEAN ENVIRONMENTAL A FORTERRA COMPANY 206/595-6906	12/18/20	5268	A	CONSULT WITH GEO HYDRO STAFF PRIOR TO DESIGN AND/OR INSTALLATION. 0.05000GPM/SQFT
01030.15A	MULCHES TEMPORARY	RAINIER FIBER	RAINIER VENEER INC FIBER MARKETING INT INC 206/459/4942	02/16/11	4346	A	
01030.15A	MULCHES TEMPORARY W/TACK	RAINIER FIBER + TAC	RAINIER VENEER INC FIBER MARKETING INT INC 206/459/4942	02/16/11	4347	A	
01030.15A	MULCHES, TEMPORARY	AIRTROL GEOBINDER	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3905	A	
01030.15A	MULCHES, TEMPORARY	BINDEX BLEND	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4565	A	60% WOOD FIBER 40% RECYCLED PAPER
01030.15A	MULCHES, TEMPORARY	BINDEX WOOD	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4566	A	WOOD FIBERS
01030.15A	MULCHES, TEMPORARY	CONWED 1000	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	07/13/06	3316	A	

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01030.15A	MULCHES, TEMPORARY	CONWED 2000	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	03/13/08	3611	A	WOOD FIBER W/3% GUAR GUM TACKIFIER
01030.15A	MULCHES, TEMPORARY	EARTH BARRIER MBFM	AGRIVESTMENTS 253/383-5014	08/14/08	3670	A	
01030.15A	MULCHES, TEMPORARY	ECO MATRIX	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	04/10/08	3267	A	SLOPES UP TO 2.5H TO 1V.
01030.15A	MULCHES, TEMPORARY	ECOFIBRE + TAC	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	04/10/08	3231	A	WOOD FIBER MULCH WITH AN ORGANIC TACKIFIER.
01030.15A	MULCHES, TEMPORARY	ECOFIBRE HYDROSEEDING MULCH	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115	04/10/08	1307	A	MAIN COMPONENT: WOOD FIBER. ORGANIC. WITHOUT TACKIFIER.
01030.15A	MULCHES, TEMPORARY	ENVIRO-BLANKET MULCH W/AIRTROL WOOD FIBER HYDRAULIC MULCH	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3907	A	
01030.15A	MULCHES, TEMPORARY	ENVIRO-BLANKET WOOD FIBR MULCH HYDRAULIC MULCH	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	07/09/09	3906	A	
01030.15A	MULCHES, TEMPORARY	ENVIROPAM L	INNOVATIVE TURF SOLUTIONS 513/317-8311	03/10/11	4318	A	WAS NAMED HYDRAPAM
01030.15A	MULCHES, TEMPORARY	ENVIROPAM(L) LIQUID	INNOVATIVE TURF SOLUTIONS 513/317-8311	03/10/11	4318	A	WAS NAMED HYDRAPAM (L)

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01030.15A	MULCHES, TEMPORARY	ENVIRO-SHIELD BONDED FIBER MATRIX	USG CORPORATION 916/417-5048 HANES GEO COMP. 800/324-4594	12/11/08	3533	A	HYDRAULICALLY APPLIED MULCH.
01030.15A	MULCHES, TEMPORARY	EXCEL FIBERMULCH II	AMERICAN EXCELSIOR 888/352-9682 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	11/14/02	2625	A	ON TEXAS DOT QPL.
01030.15A	MULCHES, TEMPORARY	GEOSKIN	MULCH & SEED INNOVATION 205/540-5775	08/13/09	3897	A	85% STRAW & 15% COTTON PLANT MATERIAL.
01030.15A	MULCHES, TEMPORARY	GRASS MULCH	GRASS FIBER INC. 520 E. 2ND ST JUNCTION CITY, OR 97448	05/01/88	2131	A	MAIN COMPONENT:CELLULOSE FIBER ORGANIC. WITHOUT TACKIFIER.
01030.15A	MULCHES, TEMPORARY	GROUNDCONTROL HY-C1 STRAW & COTTON	EAST COAST EROSION CONTROL 610/488-8496	05/03/13	4618	A	HYDRAULICALLY APPLIED
01030.15A	MULCHES, TEMPORARY	GROUNDCONTROL HY-C3 STRAW & COTTON	EAST COAST EROSION CONTROL 610/488-8496	05/03/13	4619	A	HYDRAULICALLY APPLIED
01030.15A	MULCHES, TEMPORARY	HYDRA CM STEEP SLOPE MATRIX	NORTH AMERICAN GREEN 800/772-2040 OR 812/687-6632	11/11/10	4265	A	70% STRAW & 20% RECLAIMED COTTON FIBER.
01030.15A	MULCHES, TEMPORARY	HYDROSPRAY	CELLULOSE FIBER 253/627-8008 EMERALD SEED & SUPPLY 541/504-0307	11/09/06	3063	A	INSTALL PER 01030.46(A)3.
01030.15A	MULCHES, TEMPORARY	HYDROSTRAW ALL IN 1 BONDED FIBER MATRIX	HYDROSTRAW 800/545-1755 RON EDWARDS	07/09/15	4899	A	

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01030.15A	MULCHES, TEMPORARY	HYDROSTRAW BONDED FIBER MATRIX	HYDROSTRAW 800/545-1755 RON EDWARDS	11/11/10	4164	A	
01030.15A	MULCHES, TEMPORARY	HYDROSTRAW GUAR PLUS FORMULA	HYDROSTRAW 800/545-1755 RON EDWARDS	11/11/10	4165	A	3% GUAR
01030.15A	MULCHES, TEMPORARY	MAT-FIBER	MAT, INC. 888/477-3028 CSI GEOSYNTHETICS 800/426-7976	01/13/05	2981	A	WOOD FIBER FOR HYDRO SEEDING
01030.15A	MULCHES, TEMPORARY	MAT-FIBER PLUS	MAT, INC. 888/477-3028 CSI GEOSYNTHETICS 800/426-7976	01/13/05	2982	A	WOOD FIBER FOR HYDRO SEEDING W/3% GUAR GUM TACKIFIER.
01030.15A	MULCHES, TEMPORARY	NATURE'S OWN MULCH W/O TAC	HAMILTON MANUFACTURING 208/733-9689	03/12/98	1727	A	MAIN COMPONENT: CELLULOSE FIBER - PAPER/WOOD, ORGANIC, W/O TACKIFIER, RECYCLED PAPER/WOOD FIBER.
01030.15A	MULCHES, TEMPORARY	NATURESOWN MULCH W/TAC	HAMILTON MANUFACTURING 208/733-9689	02/27/12	4450	A	
01030.15A	MULCHES, TEMPORARY	PAM 12	ENCAP 877/405-5050	12/11/08	3545	A	PAPER/STRAW WITH TACKIFIER.
01030.15A	MULCHES, TEMPORARY	PERMAMATRIX BIOTIC SOIL AMENDM	SUNMARK ENVIRONMENTAL 503/241-7333	11/11/10	4218	A	
01030.15A	MULCHES, TEMPORARY	TERRA MULCH	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115 AGRIVESTMENT 253/383-5014	11/09/06	3317	A	SLOPES UP TO: 2H : 1V

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01030.15A	MULCHES, TEMPORARY	TERRA-MATRIX SM STABILIZED FIBER MATRIX	PROFILE PRODUCTS 847/215-1144 DAMON SUMP 503/637-8462 ACF WEST 800/878-5115 AGRIVESTMENT 253/383-5014	02/08/07	3416	A	WOOD FIBER
01030.15A	MULCHES, TEMPORARY	TURBOMULCH 70% WOOD	WESTERN EXCELSIOR 800/987-4009 GEO TK 360/750-1955 DIST.: EMERALD SEED & SUPPLY	06/08/00	1804	A	WOOD FIBER, ORGANIC. W/O TACKIFIER. BIODEGRADABLE. 70% WOOD, 30% PAPER WIDYE.
01030.15A	MULCHES, TEMPORARY	WOODSTRAW	FOREST CONCEPTS 877/838-4759	12/13/07	3587	A	
01030.15A	MULCHES, TEMPORARY W/ TACKIFIER	BINDEX BLEND WT	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4564	A	60% WOOD FIBER 40% RECYCLED PAPER
01030.15A	MULCHES, TEMPORARY W/ TACKIFIER	BINDEX WOOD WT	AMERICAN EXCELSIOR 888/352-9582 OR 715/236-5643 HANES GEO COMPONENTS 360/699-1426	12/10/12	4567	A	WOOD FIBERS
01030.15A	MULCHES, TEMPORARY W/O TACKIFIER	NATURESOWN EVOLUTION 70	HAMILTON MANUFACTURING 208/733-9689	02/10/11	4202	A	AGRICULTURAL FIBERS AND WOOD CELLULOSE FIBERS, HYDR APPLIED
01030.15A	MULCHES, TEMPORARY W/TACKIFIER	NATURESOWN EVOLUTION	HAMILTON MANUFACTURING 208/733-9689	02/10/11	4203	A	AGRICULTURAL FIBERS AND WOOD CELLULOSE FIBERS, HYDR APPLIED GUAR BASED TAC
01030.15A	MULCHES, TEMPORARY W/TACKIFIER	NATURESOWN X9000	HAMILTON MANUFACTURING 208/733-9689	02/10/11	204	A	AGRICULTURAL FIBERS AND WOOD CELLULOSE FIBERS, HYDR APPLIED POLYMER BASED TAC
01030.15A	MULCHING TEMPORARY	NATURESOWN EVOLUTION 70	HAMILTON MANUFACTURING INC 208/733/9689	08/04/11	4202	A	

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01030.16	TACKIFIER	EARTH BIND 100	ENVIROAD 800/536-2650	05/14/09	3673	A	POSSIBLE PROBLEMS IN S.C. PER APEL (4/06).
01030.16	TACKIFIER	ECO E-TAC	APEX RESOURCES 502/254-3118 FIBER MARKETING 425/277-9966	07/13/06	3265	A	
01030.16	TACKIFIER	ECOTAC GUAR GG-1200	FIBER MARKETING 800/426-6002	04/09/09	3232	A	TAC ONLY, ORGANIC HYDROCOLLOID
01030.16	TACKIFIER	FIBERRX	HYDROSTRAW 800/545-1755 RON EDWARDS	01/21/14	4685	A	FOR USE WITH HYDRAULICALLY APPLIED
01030.16	TACKIFIER	FMI POWER TACK	APEX RESOURCES 502/254-3118 FIBER MARKETING 425/277-9966	07/13/06	3269	A	
01030.16	TACKIFIER	M-BINDER	GRANITE SEED CO. 801/768-4422	04/14/05	2886	A	
01030.16	TACKIFIER LIQUID	TORTISHELL HPSS-550	TRI-SO TRYLINE, LLC 714/501-4897 PACIFIC INTER-MOUNTAIN DISTRIBUTION, LLC 406/407-5840	12/24/18	5171	A	
01040.17	SOIL BIO-AMENDMENT	BACTIFEED SOIL TREATMENT	TERRA SANA, LLC 801/566-3727 SPOIL YOUR SOIL, LLC 541/761-6958	06/12/18	5140	A	
01040.17	SOIL BIO-AMENDMENT	MYCOAPPLY ENDO	MYCORRHIZAL APPLICATIONS 866/476-7800 OR 541/476-3985	02/11/10	3938	A	

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01040.17	SOIL BIO-AMENDMENT	MYCOAPPLY ENDO PLUS	MYCORRHIZAL APPLICATIONS 866/476-7800 OR 541/476-3985	02/11/10	3939	A	
01040.17	SOIL BIO-AMENDMENT	MYCOAPPLY ENDO/ECTO PLUS	MYCORRHIZAL APPLICATIONS 866/476-7800 OR 541/476-3985	02/11/10	3940	A	
01040.17	SOIL BIO-AMENDMENT	MYCOAPPLY ENDONET	MYCORRHIZAL APPLICATIONS 866/476-7800 OR 541/476-3985	02/11/10	3944	A	
01040.17	SOIL BIO-AMENDMENT	MYCOAPPLY MICRONIZED ENDO	MYCORRHIZAL APPLICATIONS 866/476-7800 OR 541/476-3985	02/11/10	3941	A	
01040.17	SOIL BIO-AMENDMENT	MYCOAPPLY MICRONIZED ENDO/ECTO	MYCORRHIZAL APPLICATIONS 866/476-7800 OR 541/476-3985	02/11/10	3942	A	
01040.17	SOIL BIO-AMENDMENT	MYCOAPPLY SOLUBLE MAXX	MYCORRHIZAL APPLICATIONS 866/476-7800 OR 541/476-3985	02/11/10	3943	A	
01040.17	SOIL BIO-AMENDMENT	NATURE'S OWN LIVING HUMUS	NATURE'S NEEDS 503/647-9489	04/14/05	2947	A	
01040.17	SOIL BIO-AMENDMENT	PERMAMATRIX BIOTIC SOIL AMENDM	SUNMARK ENVIRONMENTAL 503/241-7333	11/11/10	4218	A	
01040.17E	SOIL BIO-AMENDMENT MYCORRHIZAL	BIOTIC EARTH BLACK	VERDYOL PLANT RESEARCH 320/910-4800 ACF WEST 503/771-5115	05/30/13	4663	A	

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01040.17E	SOIL BIO-AMENDMENT MYCORRHIZAL	FUSION	LSC ENVIRONMENTAL PRODUCTS 800/800-7671 HANES GEOCOMPONENTS 800/426-4976	06/19/19	5199	A	HYDRO. APPLIED. GAR. PAM STABILIZER SOIL BIO-AMENDMENTS
01040.17E	SOIL BIO-AMENDMENT MYCORRHIZAL	PROGANICS BIOTIC SOIL MEDIA (BSM)	PROFILE PRODUCTS LLC 800/508-8681 ACF WEST 503/771-5115	08/04/15	4897	A	
01040.17F	SOIL BIO-AMENDMENT MICROBES	AG-1000	TERAGANIX 866/396-8976 EMERGE DNA 458/215-9922	12/04/20	5314	A	
01040.22	MOISTURE RETENTION CHEMICAL - FOR SOIL	SOIL MOIST - POLYMER	JRM CHEMICAL 800/962-4010 1675 MARYLHURST DR WEST LINN, OR 97068 503/636-8849	11/09/06	446	A	ACRYLIC POLYMER REDUCE WATERINGS BY 50% INTENDED FOR PLANTING IN LOW MOISTURE AREAS.
01070.00	MAILBOX SUPPORTS	T&T MAILBOX SUPPORT MODELS 15001 & 15002	TRAFFIC SAFETY/TAPCO 800/647-8518	07/14/05	3166	A	SLIGHT MODIFICATION OF TAPCO SUPPORT BY TRAFFIC SAFETY TO MEET OUR REQUIREMENTS - RD100. INCLUDES V-WING ANCHOR (20VR3)
02010.10	CEMENT, TYPE I, II	ASIA CEMENT COMPANY TAIWAN	ASHGROVE CEMENT CO. DAVE BURG 503/207-2109	12/09/20	5306	A	ASIA CEMENT COMPANY TAIWAN AASHTO TYPE I, II
02010.10	CEMENT, TYPE I, II	CAL PORTLAND - MOJAVE CEMENT	CALPORTLAND COMPANY Kevin Waf 503/635-7713	12/11/08	3724	A	
02010.10	CEMENT, TYPE I, II	CAL PORTLAND - NANJING	CALPORTLAND COMPANY Kevin Waf 503/635-7713	05/14/09	1619	A	SOURCE: ONODA (NANJING).
02010.10	CEMENT, TYPE I, II	NEVADA CEMENT	NEVADA CEMENT 775/575-2281 LAKEVIEW REDIMIX 541/947-2212	01/12/06	3229	A	SUBSTANTIALLY MET AASHTO M85 TYPE I, DID NOT MEET TYPE II REQUIREMENTS.

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02010.10	CEMENT, TYPE III	ASH GROVE CEMENT - MONTANA CITY	ASHGROVE CEMENT CO. DAVE BURG 503/207-2109	04/03/19	5189	A	MONTANA CITY AASHTO TYPE III
02010.10	CEMENT, TYPE III	LAFARGE CEMENT - KAMLOOPS	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	01/11/96	1475	A	KAMLOOPS PLANT AASHTO TYPE III ODOT ID# 1475B
02010.10	CEMENT, TYPES I, II	ASH GROVE CEMENT - CONCH - ZHANGJIAGANG	ASHGROVE CEMENT CO. DAVE BURG 503/207-2109	07/05/18	5150	A	CONCH - ZHANGJIAGANG AASHTO TYPES I, II
02010.10	CEMENT, TYPES I, II	CAL PORTLAND - SSANGYONG CEMENT SsangYong Cement Ind. Corp.	CALPORTLAND COMPANY Kevin Wolf 503/635-7713	07/26/13	4671	A	
02010.10	CEMENT, TYPES I, II	CEMEX YAQUI	CEMEX 713/650-6200 CHRIS WALZ 951/264-2426	01/21/14	4704	A	YAQUI CEMENT MEXICO
02010.10	CEMENT, TYPES I, II	LAFARGE CEMENT - EXSHAW	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	01/11/96	1475	A	EXSHAW PLANT: AASHTO TYPE I,II ODOT ID# 1475A
02010.10	CEMENT, TYPES I, II	LAFARGE CEMENT - RICHMOND BC	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	12/09/99	1968	A	
02010.10	CEMENT, TYPES I, II	LEHIGH CEMENT-DELTA WAS CALAVARAS THEN TILBURY	LEHIGH NORTHWEST CEMENT CO. 503/293-8459 Allan Kramer 800/752-6795 206/255-2845	01/07/98	1746	A	DELTA BC PLANT.
02010.10	CEMENT, TYPES I, II, III	ASH GROVE CEMENT - DURKEE	ASHGROVE CEMENT CO. DAVE BURG 503/207-2109	01/14/99	1472	A	DURKEE PLANT ONLY. AASHTO TYPES I, II, & III.

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02010.10	CEMENT, TYPES I, II, III	ASH GROVE CEMENT - SEATTLE	ASHGROVE CEMENT CO. DAVE BURG 503/207-2109	01/11/96	1472	A	SEATTLE PLANT ONLY. AASHTO TYPES I, II, III
02010.10	CEMENT, TYPES I, II, III	LEHIGH CEMENT-REDDING WAS CALAVARAS THEN TILBURY	LEHIGH SOUTHWEST CEMENT CO. REDDING 530/275-1581	01/11/96	1473	A	REDDING CALIFORNIA PLANT ONLY. AASHTO TYPES I,II,III
02010.20	CEMENT, TYPE IL	ASH GROVE CEMENT SEATTLE	ASHGROVE CEMENT CO. DAVE BURG 503/207-2109	07/24/20	5285	A	SEATTLE TYPE IL
02010.20	CEMENT, TYPE IL	LAFARGE EXSHAW, ALBERTA	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	06/20/17	5056	A	TYPE IL
02010.20	CEMENT, TYPE IL	LAFARGE RICHMOND, BRITISH COLUMBIA	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	04/21/17	5015	A	TYPE IL
02010.20	CEMENT, TYPE IP (15)	LAFARGE CEMENT - SEATTLE	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	12/09/99	1970	A	TYPE F FLY ASH BLENDED-SEATTLE PLANT TYPE 1 CEMENT WITH 15% TYPE F FLY ASH
02010.20	CEMENT, TYPE IS (20)	LAFARGE MAXCEM (20%)	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	02/14/02	2298	A	SLAG BLENDED - SEATTLE PLANT TYPE 1 CEMENT WITH 20% SLAG
02010.20	CEMENT, TYPE IS (30)	LAFARGE MAXCEM (30%)	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	09/08/05	3021	A	SLAG BLENDED - SEATTLE PLANT TYPE 1 CEMENT WITH 30% SLAG
02010.20	CEMENT, TYPE IT (L-15)(S3)	LAFARGE MAXCEM (L-15)(S30)	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	04/12/17	5016	A	SLAG & LIME STONE SEATTLE PLANT TYPE IL CEMENT 30% SLAG

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02011.10	RAPID HARDENING HYDRAULIC CEMENT	RAPID SET CEMENT	CTS CEMENT MFG. COMPANY TONY TOMASINI 360/607-3553	11/11/19	5220	Q	
02015.20	PCC REPAIR	AQUAFIN PAVEMEND DOTLINE	AQUAFIN, INC 562/332-7111 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	05/22/18	5136	A	VERY RAPID SETTING
02015.20	PCC REPAIR	AQUAFIN PAVEMEND SL	AQUAFIN, INC 562/332-7111 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	05/22/18	5137	A	VERY RAPID SETTING
02015.20	PCC REPAIR	EUCOREPAIR SCC FAST	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	12/03/18	5168	A	VERY RAPID SETTING MINIMUM THICKNESS: 1 INCH
02015.20	PCC REPAIR	EXPRESS REPAIR	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	05/09/15	5121	A	VERY RAPID SETTING
02015.20	PCC REPAIR	FIVE STAR HIGHWAY PATCH FR	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	11/16/17	5085	A	VERY RAPID SETTING
02015.20	PCC REPAIR	FIVE STAR HWY PATCH	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	05/01/88	65	A	VERY RAPID SETTING
02015.20	PCC REPAIR	MASTER EMACO S 440 MC WAS MBT LA REPAIR MORTAR	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	06/14/07	611	A	VERTICAL
02015.20	PCC REPAIR	MASTER EMACO T 1060 WAS MBT THOROC 10-60 RAPID MORTAR	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	06/14/07	839	A	VERY RAPID SETTING MINIMUM THICKNESS: 1/2 INCH

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02015.20	PCC REPAIR	MBT SET 45	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	06/14/07	655	A	VERY RAPID SETTING DO NOT USE UNDER LATEX OR POLYESTER-RESIN CONCRETE OVERLAYS MAGNESIUM PHOSPHATE
02015.20	PCC REPAIR	PHOSCRETE FOUR-SEASONS	PHOSCRETE CORPORATION 561/420-0595 NORCOE INC. 206/484-8236	10/04/13	4696	A	VERY RAPID SETTING
02015.20	PCC REPAIR	PHOSCRETE HC	PHOSCRETE CORPORATION 561/420-0595 NORCOE INC. 206/484-8236	05/25/16	4953	A	VERY RAPID SETTING
02015.20	PCC REPAIR	PHOSCRETE VO-PLUS	PHOSCRETE CORPORATION 561/420-0595 NORCOE INC. 206/484-8236	10/04/13	4697	A	VERY RAPID SETTING
02015.20	PCC REPAIR	PLANITOP 18	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	09/06/16	5003	A	VERY RAPID SETTING
02015.20	PCC REPAIR	PLANITOP 18 ES	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	09/06/16	5004	A	VERY RAPID SETTING
02015.20	PCC REPAIR	PLANITOP 18 TG	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	06/12/18	5141	A	VERY RAPID SETTING 8" MAX DEPTH, CONTACT MAPEI
02015.20	PCC REPAIR	QUIKRETE COMMERCIAL GRADE FASTSET DOT MIX 1244-56	THE QUIKRETE COMPANIES, LLC 404/634-9100	11/20/20	5310	A	VERY RAPID SETTING
02015.20	PCC REPAIR	RAPID SET D.O.T. REPAIR MIX	CTS CEMENT MFG. COMPANY TONY TOMASINI 360/607-3553 BASALITE-DUPONT 253/964-5000	07/14/11	1100	A	VERY RAPID SETTING RAPID SET CEMENT

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02015.20	PCC REPAIR	RECRETE 20	DAYTON SUPERIOR CORPORATION 937/866-0711	12/28/20	5304	A	RAPID SETTING
02015.20	PCC REPAIR	REPCON VIO	SPECICHEM LLC 206/714-3511 WHITECAP 503/287-4151	06/26/20	5221	A	RAPID SETTING
02015.20	PCC REPAIR	SIKAQUICK 1000	SIKA CORPORATION 800/933-7452	12/28/20	5326	A	STANDARD SET
02015.20	PCC REPAIR	SIKAQUICK 2500	SIKA CORPORATION 800/933-7452	06/08/20	5271	A	VERY RAPID SETTING
02015.20	PCC REPAIR	SPEED CRETE 2028	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	01/09/03	1790	A	VERY RAPID SETTING MINIMUM THICKNESS: 1/2 INCH
02015.20	PCC REPAIR	SPEED CRETE RED LINE	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	10/09/08	207	A	VERTICAL COSMETIC APPLICATIONS ONLY ADDED GYPSUM IN PRODUCT
02015.20	PCC REPAIR	TAMMS EXPRESS REPAIR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	10/09/08	2536	A	VERY RAPID SETTING
02015.20	PCC REPAIR	TARGET TRAFFIC PATCH FINE	TARGET PRODUCTS 604/551-4866 WHITECAP SUPPLY 503/287-4151 WILLIAMS FORM ENG. 503/286-3647	03/08/17	5034	A	VERY RAPID SETTING 1/2"-1" APPLICATIONS
02015.20	PCC REPAIR	US SPEC POLYPATCH FR	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	12/17/12	4571	A	VERY RAPID SETTING

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02015.20	PCC REPAIR	US SPEC QUICKSET	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	03/10/11	4341	A	VERTICAL RAPID SETTING (WAS QUICKSET 20)
02015.20	PCC REPAIR	US SPEC R3	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	08/02/16	4974	A	VERY RAPID SETTING
02015.20	PCC REPAIR	US SPEC STR MORTAR CI WAS STR MORTAR	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	01/13/11	4158	A	RAPID SETTING
02015.20	PCC REPAIR	US SPEC TP MORTAR	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	12/17/12	4570	A	RAPID SETTING 0-1/2" APPLICATIONS
02015.20	PCC REPAIR	US SPEC TRANSPATCH	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	12/27/16	2860	A	VERY RAPID SETTING
02015.20	PCC REPAIR	US SPEC TRANSPATCH CONCRETE	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	07/26/13	4409	A	VERY RAPID SETTING
02015.20	PCC REPAIR	US SPEC TRANSPATCH EXT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	12/27/16	5021	A	STANDARD SETTING
02015.20	PCC REPAIR	VERSASPEED 100	EUCIID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	06/29/20	5246	A	VERY RAPID SETTING HAS MICRO FIBER
02015.30	PCC REPAIR POLYMER MODIFIED	CHEMPATCH V/O 1	CHEMMASTERS 800/486-7866 UNITED RENTALS 503/234-0255	12/14/06	3290	A	RAPID SETTING & VERTICAL MODULUS: 3,600,000

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02015.30	PCC REPAIR POLYMER MODIFIED	EUCO REPAIR V100	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	03/25/14	4756	A	VERY RAPID SETTING, VERTICAL
02015.30	PCC REPAIR POLYMER MODIFIED	HD 50	DAYTON SUPERIOR CORPORATION 937/866-0711	12/28/20	5305	A	VERY RAPID SETTING
02015.30	PCC REPAIR POLYMER MODIFIED	MASTER EMACO N 400 RS WAS THOROC HBA REPAIR MORTAR	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	05/01/88	216	A	VERTICAL COSMETIC SURFACE REPAIRS ONLY
02015.30	PCC REPAIR POLYMER MODIFIED	PAVE PATCH 3000	DAYTON SUPERIOR CORP. 800/745-3700	11/16/17	5090	A	VERY RAPID SETTING
02015.30	PCC REPAIR POLYMER MODIFIED	PLANITOP X	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	10/20/16	5006	A	VERY RAPID SETTING
02015.30	PCC REPAIR POLYMER MODIFIED	PLANITOP XS	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	10/20/16	5007	A	VERY RAPID SETTING
02015.30	PCC REPAIR POLYMER MODIFIED	PROSPEC BLENDCRETE	H.B. FULLER CONSTRUCTION PRODUCTS 630/952-1319 ALP SUPPLY 267/315-4295	10/29/18	5160	A	VERY RAPID SET
02015.30	PCC REPAIR POLYMER MODIFIED	PROSPEC PREMIUM PATCH 200 FIBER	H.B. FULLER CONSTRUCTION PRODUCTS 630/952-1319 ALP SUPPLY 267/315-4295	07/03/19	5203	A	VERY RAPID SET
02015.30	PCC REPAIR POLYMER MODIFIED	QUIKRETE COMMERCIAL GRADE FAST SET REPAIR MORTAR 1241	THE QUIKRETE COMPANIES, LLC 404/634-9100	11/20/20	5309	A	VERY RAPID SETTING

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02015.30	PCC REPAIR POLYMER MODIFIED	REPCON 928	SPEC CHEM 913/371-8700 WHITE CAP 800/456-7445	07/07/14	4781	A	VERY RAPID SETTING
02015.30	PCC REPAIR POLYMER MODIFIED	SIKACRETE 211 SCC PLUS	SIKA CORPORATION 800/933-7452	06/08/20	5269	A	STANDARD SET
02015.30	PCC REPAIR POLYMER MODIFIED	SIKAQUICK VOH	SIKA CORPORATION 800/933-7452	12/28/20	5327	A	RAPID SETTING
02015.30	PCC REPAIR POLYMER MODIFIED	SPEC PATCH 15	SPEC CHEM 913/371-8700 WHITE CAP 800/456-7445	08/04/15	4834	A	STANDARD SETTING WAS NAMED PRECAST PATCH
02015.30	PCC REPAIR POLYMER MODIFIED	SPEED CRETE PM	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	10/09/08	2530	A	VERTICAL
02015.30	PCC REPAIR POLYMER MODIFIED	TAMMS FORM & POUR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	10/09/08	3504	A	VERTICAL
02015.30	PCC REPAIR POLYMER MODIFIED	US SPEC V/O PATCH CI (WAS V/O PATCH 10/2017)	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	11/25/15	1992	A	RAPID SETTING
02015.30	PCC REPAIR POLYMER MODIFIED	US SPEC WS-P1	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	03/10/11	4342	A	VERTICAL
02015.40	PCC REPAIR HIGH PERFORMANCE	US SPEC STR MORTAR CI WAS STR MORTAR	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	01/13/11	4158	A	MINIMUM THICKNESS: 3 INCH

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02015.50	PCC REPAIR, SURFACE	SILPRO RAECO SKIMWALL	SILPRO, LLC 800/343-1501	03/05/19	5175	A	SURFACE REPAIR SKIM COAT
02015.50	PCC REPAIR, SURFACE	TAMOSEAL	EUCIID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	03/05/19	5176	A	SURFACE REPAIR SKIM COAT
02030.10	CONCRETE SCM-FLY ASH	BOUNDARY DAM CLASS F FLY ASH ESTEVAN SASKASHEWAN	BOUNDARY DAM POWER PLANT 1 604/952-5621 LEHIGH NW CEMENT COMPANY 1/800/752-6794	05/16/12	4493	Q	CLASS F
02030.10	CONCRETE SCM-FLY ASH	CENTRALIA FLY ASH - LAFARGE F	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	05/08/08	3620	Q	CLASS F
02030.10	CONCRETE SCM-FLY ASH	CLASS C FLY ASH - BOARDMAN MUST COME FROM BOARDMAN PLANT.	BORAL RESOURCES 239/565-2338	01/16/95	1463	Q	CLASS C
02030.10	CONCRETE SCM-FLY ASH	COAL CREEK CLASS F FLY ASH COAL CREEK - UNDERWOOD ND	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	07/14/11	4413	Q	CLASS F
02030.10	CONCRETE SCM-FLY ASH	COAL CREEK FLY ASH	BORAL RESOURCES 239/565-2338	05/11/06	3305	Q	CLASS F COMPANY NAME CHANGE PENDING (BORAL)
02030.10	CONCRETE SCM-FLY ASH	DELTA CLASS F FLY ASH	BORAL RESOURCES 239/565-2338	09/10/09	3953	Q	CLASS F INTERMOUNTAIN POWER PLANT; DELTA, UTAH. COMPANY NAME CHANGE PENDING (BORAL)
02030.10	CONCRETE SCM-FLY ASH	GENESEE G1/G2 CAPITAL POWER	CAPITAL POWER 780/968-8706 ENX INC 780/964-3739	09/20/19	5214	Q	CLASS F GENESEE GENERATING STATION, WARBURG AB

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02030.10	CONCRETE SCM-FLY ASH	JIM BRIDGER ASH	BORAL RESOURCES 239/5665-2338	03/08/07	3449	Q	CLASS F
02030.10	CONCRETE SCM-FLY ASH	JSW ENERGY FLY ASH-CLASS F	JSW ENERGY LIMITED +91-9284407764 WWW.JSW.IN	12/09/20	5288	Q	CLASS F JSW INDIA COMPANY NAME CHANGE PENDING (BORAL)
02030.10	CONCRETE SCM-FLY ASH	LAFARGE CENTRALIA CLASS C ASH	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	05/13/10	4143	Q	CLASS C TRANS ALTA CENTRALIA POWER PLANT
02030.10	CONCRETE SCM-FLY ASH	MARTIN LAKE FLY ASH MARTIN (TX) LAKE POWER PLANT	BORAL RESOURCES 239/5665-2338	02/11/10	4088	Q	CLASS F
02030.10	CONCRETE SCM-FLY ASH	MICRONS	BORAL MATERIALS 210/349-4089	07/14/05	3095	Q	CLASS F ULTRA FINE GRIND COMPANY NAME CHANGE PENDING (BORAL)
02030.10	CONCRETE SCM-FLY ASH	SHEERNESS CLASS F FLY ASH ATCO POWER - CALGARY ALBERTA	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	07/14/11	4412	Q	CLASS F
02030.10	CONCRETE SCM-FLY ASH	SUNDANCE CLASS F FLY ASH	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	05/08/08	3634	Q	CLASS F
02030.10	CONCRETE SCM-FLY ASH	WABAMUN FLY ASH	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	07/12/07	3528	Q	CLASS F WABAMUN, ALBERTA, CANADA.
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	CON-FUME SILICA FUME	CEMENTEC INDUSTRIES 403/720-6699	04/09/09	3820	Q	

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02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	EMS-970D	ELKEM MATERIALS 412/299-7229	09/10/09	3959	Q	
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	FERROATLANTICA -DSF	FERROATLANTICA RED INDUSTRIAL PRODUCTS 814/673-1552	07/09/09	3892	Q	WAS DISTRIBUTED BY ACT
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	FORCE 10,000D	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	12/09/04	3054	Q	
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	MASTERLIFE SF-100	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	3053	Q	WAS RHEOMAC SF-100 1/14
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	MICROSILICA SILICA FUME	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	03/19/18	5111	Q	
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	NORCHEM -DSF	NORCHEM 631/7248639 ACT 360/332-7060	12/23/15	4937	Q	
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	R-E-D FUME 102 DM	MISSISSIPPI SILICON 662/696-2600 RED IND. PROD. 814/673-1552	06/14/16	4964	Q	
02030.20	CONCRETE SCM-SILICA FUME (MICROSILICA)	SIKRETE-950DP	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330/495-0109	01/30/20	5231	Q	
02030.30	CONCRETE ADMIX - LATEX	MODIFIER A/NA	TRINSEO 989/636-2496	07/14/11	1305	Q	FOR LATEX MODIFIED CONCRETE OVERLAY

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02030.30	CONCRETE ADMIX- LATEX	STYROFAN 1186	BASF CORP.,CHEMICALS DIV. JOHN SWEENEY 317/293-4250 800/251-0612	05/01/88	566	Q	FOR LATEX MODIFIED CONCRETE OVERLAY
02030.40	CONCRETE SCM - GGBF (SLAG)	DURA SLAG	ASHGROVE CEMENT CO. DAVE BURG 503/207-2109	09/10/09	3970	Q	GROUND GRANULATED BLAST FURNACE SLAG.
02030.40	CONCRETE SCM - GGBF (SLAG)	LAFARGE NEWCEM	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	09/08/05	3022	Q	GROUND GRANULATED BLAST FURNACE SLAG.
02030.40	CONCRETE SCM-GGBF (SLAG)	CALPORTLAND SLAG CEMENT	SAMPYO CORPORATION SOUTH KOREA CALPORTLAND 503/6357713	05/07/12	4491	Q	
02030.40	CONCRETE SCM-GGBF (SLAG)	LEHIGH SLAG CEMENT (NIPPON)	LEHIGH SOUTHWEST CEMENT COMPANY 925/348-4066 NIPPON STEEL CORPORATION	02/22/17	5039	Q	GROUND GRANULATED BLAST FURNACE SLAG.
02030.50	CONCRETE SCM - METAKAOLIN HI REACTIVITY	POWER POZZ	GRACE DAVISON 803/648-9575 ADVANCED CEMENT TECHNOLOGIES KEN MCPHALEN 360/332-7060	04/10/08	2676	Q	
02030.50	SCM NATURAL POZZOLAN	TS100-PUMICE-CLASS N NATURAL POZZOLAN	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	12/28/20	5294	Q	
02030.60	SCM-BLENDED	NEWCEM PLUS	LAFARGE CORPORATION ROB SHOGREN 206/923-9953	07/05/13	4670	Q	FLY ASH F & GGBS BLEND
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	AIR TITE 60 NOW CALLED DARAVAIR AT60	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	01/09/97	1599	A	

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02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	AIRALON 7000	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	12/28/20	5307	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	DARAVAIR 1000	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	04/11/02	2557	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	DARAVAIR AT30	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	05/10/07	3491	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	DARAVAIR PAVE 10	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	04/14/11	4270	A	SAME AS DARAVAIR 1000
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	DARCOLE SYNTHETIC AIR 110 (DSA 110)	DARCOLE PRODUCTS, INC 270/826-6499	12/28/20	5320	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	DAREX II AEA	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	06/10/93	1035	A	MFG HAS SUBMITTED TEST RESULTS CONFORMING TO ASTM C-260. USES ORGANIC ACID SALTS IN AN AQUEOUS SOLUTION.
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	EUCON AEA 92	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	09/09/04	2257	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	EUCON AIR 40 WAS BORAL AIR 40	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	05/14/98	1741	A	LIQUID ADDITIVE. SAID BY MANUF. TO REDUCE PERMEABILITY, & ENHANCE FREEZE/THAW & DE-ICE CAPABILITY OF CONCRETE.
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	EUCON AIR MAC6	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	03/19/18	5113	A	

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02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	EUCON AIR MIX 200	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	09/09/04	2256	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	FRITZ-PAK AIR PLUS	FRITZ-PAK 888/746-4116 MASON'S SUPPLY 800/537-3407	07/09/93	1040	A	DRY, POWDERED AEA ADMIX. 236ML UPS FULL LOAD 1/4 TO 1%. COMPATIBLE W/ALL AEA + CACL. ADD OTHER ADMIX. SEPARATELY.
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	FRITZ-PAK SUPER AIR PLUS	FRITZ-PAK 888/746-4116 MASON'S SUPPLY 800/537-3407	07/09/93	1041	A	DRY, POWDERED AEA ADMIX. 236ML UPS FULL LOAD 3/4 TO 2%. COMPATIBLE W/ALL AEA + CACL. ADD OTHER ADMIX SEPARATELY.
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	MASTERAIR AE 200	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2957	A	WAS MICRO AIR 1/14
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	MASTERAIR AE 400	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	11/11/10	4264	A	WAS EVERAIR PLUS 1/14
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	MASTERAIR AE 90	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1163	A	WAS MB-AE 90 1/14
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	MASTERAIR VR 10	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2047	A	WAS MB-VR 1/14
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	POLYCHEM AE	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	11/14/02	2545	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	POLYCHEM SA-50	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	03/21/19	5179	A	

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02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	POLYCHEM VR	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	11/14/02	2546	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	SIKA AEA-14	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON SUPPLY 800/537-3407	01/30/20	5234	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	SIKA AIR	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON SUPPLY 800/537-3407	01/12/06	3243	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	SIKA AIR 260	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON SUPPLY 800/537-3407	07/10/13	4679	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	SIKA MULTI AIR 25	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON SUPPLY 800/537-3407	03/10/11	4349	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	SIKA CONTROL AIR-160	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON SUPPLY 800/537-3407	03/25/19	5186	A	
02040.10	CHEMICAL ADMIXTURES AIR ENTRAINING AGENT	STABLE AIR	CELLULAR CONCRETE TECHNOLOGIES 949/754-0570	07/26/12	4503	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	ADVA 150M	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	08/10/16	4972	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	ADVA FLEX	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	07/14/11	4405	A	

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02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	ADVA XT2	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	07/09/13	4677	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	CLARENA MC2000	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	09/13/17	5068	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	CONCERA CP1124	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	05/22/18	5135	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	DARACEM 19	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	02/13/97	1565	A	ALSO KNOWN AS WRDA 19
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	DARACEM 55	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	03/09/95	1294	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	DARCOLE WATER REDUCER (DWR 385)	DARCOLE PRODUCTS, INC 270/826-6499	12/28/20	5321	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	DARNLOK 485: WATER REDUCER (DNL 485)	DARCOLE PRODUCTS, INC 270/826-6499	12/28/20	5323	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	DARNLOK 785: WATER REDUCER (DNL 785)	DARCOLE PRODUCTS, INC 270/826-6499	12/28/20	5322	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON HC WAS BORAL HC	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	02/11/99	1737	A	WAS RELCRETE TW-4

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02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON HW WAS BORAL HW	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	05/14/98	1736	A	DESIGNED FOR COLD WEATHER USE, WITH MIN RETARDING
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON LR WAS BORAL LR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	07/12/01	1732	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON MR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	01/12/06	2258	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON NW WAS BORAL NW	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	05/14/98	1733	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON RD2 WAS BORAL RD2	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	05/01/88	2049	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON SE	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	06/12/18	5142	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON WR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	01/12/06	2261	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON WR91	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	09/09/04	2259	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	EUCON X-15 WAS BORAL X-15	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	05/14/98	1731	A	

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02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERGLENLIUM 1466	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	3238	A	WAS PS 1466
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERGLENLIUM 7101	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	09/13/07	3484	A	WAS GLENLIUM 7101 1/14 NOT COMPATIBLE WITH BETA- NAPHTHALENE SULFONATE ADDITIVE
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERGLENLIUM 7500	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	09/13/07	3501	A	WAS GLENLIUM 7500 1/14 NOT COMPATIBLE WITH BETA- NAPHTHALENE SULFONATE ADDITIVE
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERGLENLIUM 7511	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	04/18/17	5050	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERGLENLIUM 7920	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	01/08/15	4856	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOLYHEED 100	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1903	A	WAS POLYHEED FC 100 1/14
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOLYHEED 900	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2903	A	WAS POLYHEED 900 1/14
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOLYHEED 980	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	07/03/19	5201	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOLYHEED 997	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	213	A	WAS POLYHEED 997 1/14 WAS POZZOLITH POLYHEED. 198

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02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOZZOLITH 200	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1428	A	WAS POZZOLITH 200N 1/14
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOZZOLITH 322	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2059	A	WAS POZZOLITH 322N 1/14
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOZZOLITH 700	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	01/21/14	4707	A	WAS POZZOLITH 700N 1/14
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERPOZZOLITH 80	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1477	A	WAS POZZOLITH 80 1/14
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MASTERRHEOBUILD 1000	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1353	A	WAS RHEOBUILD 1000 1/14
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MELCHEM	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	04/14/05	2554	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MIRA 110	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	11/12/09	3992	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	MIRA 62	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	04/09/09	3850	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	PLASTOCRETE 100	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109	01/08/15	4839	A	

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02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	PLASTOL 6400	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	07/07/14	4794	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	PLASTOL 6420	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	04/07/16	4945	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	POLYCHEM 400 NC	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	05/08/03	2549	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKA PLASTOCRETE-250	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	12/03/18	5167	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKA VISCOCRETE 1000	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	07/10/13	4680	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKA VISCOCRETE 2100	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3251	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKA VISCOCRETE 2110	SISIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	03/10/11	4350	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKA VISCOCRETE 4100	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3250	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKA VISCOCRETE 6100	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3252	A	

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02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKA VISCOFLOW-2020	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109	06/12/18	4963	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKAMENT 475	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	10/20/16	5010	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKAMENT 686	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3249	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	SIKAPLAST 300GP	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109	01/21/14	4719	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	WRDA 20	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	01/10/02	2484	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	WRDA 27	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	01/10/02	2473	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	WRDA 64	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	01/13/94	1078	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	WRDA 82	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	08/08/91	771	A	SAME AS WRDA PAVE 18
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	WRDA PAVE 17	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	04/14/11	4273	A	SAME AS WRDA 79

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02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	WRDA PAVE 18	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	04/14/11	4274	A	SAME AS WRDA 82
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	ZYLA 610	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	08/14/08	3325	A	CARBOHYDRATE BASED MONITOR COMPATIBILITY
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCER	ZYLA 630	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	01/08/09	3731	A	
02040.10	CHEMICAL ADMIXTURES TYPE A ADMIXTURE WATER REDUCING	POLYCHEM SPC	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	03/21/19	5181	A	
02040.10	CHEMICAL ADMIXTURES TYPE B & D ADMIXTURE	MASTERSET DELVO	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	751	A	FOR USE AS HYDRATION STABILIZER ONLY. APPROVAL ON THE MIX DESIGN NEEDED. BRIDGE DECKS AND OVERLAYS.
02040.10	CHEMICAL ADMIXTURES TYPE B & D ADMIXTURE	RECOVER	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	12/09/04	1521	A	FOR USE AS HYDRATION STABILIZER ONLY. APPROVAL ON THE MIX DESIGN NEEDED. BRIDGE DECKS AND OVERLAYS.
02040.10	CHEMICAL ADMIXTURES TYPE B ADMIXTURE SET RETARDER	DARATARD 17	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	05/01/88	1883	A	
02040.10	CHEMICAL ADMIXTURES TYPE B ADMIXTURE SET RETARDER	MASTERSET R 100	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2055	A	WAS POZZOLITH 100XR 1/14
02040.10	CHEMICAL ADMIXTURES TYPE B ADMIXTURE SET RETARDER	MASTERSET R 300	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2058	A	WAS POZZOLITH 300R 1/14

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02040.10	CHEMICAL ADMIXTURES TYPE B ADMIXTURE SET RETARDER	PLASTIMENTS	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 MASON SUPPLY 800/537-3407 ATLAS SUPPLY 800/606-7952	03/10/11	4351	A	
02040.10	CHEMICAL ADMIXTURES TYPE B ADMIXTURE SET RETARDER	SIKA PLASTIMENT	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330/495-0109 MASON SUPPLY 800/537-3407 ATLAS SUPPLY 800/606-7952	05/01/88	2051	A	
02040.10	CHEMICAL ADMIXTURES TYPE B ADMIXTURE SET RETARDER	SIKA PLASTIMENT XR	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109	06/14/16	4960	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	ACCELGUARD 80 WAS EUCON CAN & BORAL CAN	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON SUPPLY 800/537-3407	07/12/01	1740	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	ACCELGUARD NCA	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON SUPPLY 800/537-3407	07/07/14	4797	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	ACCLGUARD G3	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON SUPPLY 800/537-3407	04/07/16	4946	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	DARASET 400	GCP APPLIED TECHNOLOGIES INC. BOB HOOPE 508/878-2397 KEITH TERRILL 480/381-0780	02/14/08	3603	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	DARASET HES	GCP APPLIED TECHNOLOGIES INC. BOB HOOPE 508/878-2397	04/09/09	3849	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	DARNSET 166 (DNS 166)	DARCOLE PRODUCTS, INC 270/826-6499	12/28/20	5324	A	

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02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	DCI	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	02/13/92	543	A	CALCIUM NITRATE SOLUTION FOR SET ACCELERATION ONLY. LONG TERM EFFECTS AS A CORROSION INHIBITOR UNKNOWN.
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	EUON CIA	EUCIID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	05/08/08	2262	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	MASTERLIFE CI 30	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1880	A	WAS RHEOCRETE CNI 1/14 HAS A CORROSION INHIBITOR.
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	MASTERPOLYHEED 100	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1903	A	WAS POLYHEED FC 100 1/14
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	MASTERSET FP 20	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2705	A	WAS POZZUTEC 20+ 1/14 NON CHLORIDE ACCEL AND POLYCARBOXYLATE DISPERSANT.
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	POLARSET	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	12/14/95	1406	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	POLYCHEM CI	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	02/13/03	2555	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	POLYCHEM SUPER SET	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	05/08/03	2551	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	SIKA CNI	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3253	A	

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02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	SIKA RAPID 1	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON SUPPLY 800/537-3407	01/12/06	3246	A	DO NOT USE WITH ANTI-SHRINK ADDITIVES.
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE ACCELERATOR	SIKASET NC	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON SUPPLY 800/537-3407	01/12/06	3247	A	
02040.10	CHEMICAL ADMIXTURES TYPE C ADMIXTURE NON CHLORIDE	MASTERSET AC 534	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1879	A	WAS POZZOLITH NC 534 1/14 HIGH DOSE OF ACCELERATOR MAY SEE UP TO 3000 PSI IN ONE HOUR.
02040.10	CHEMICAL ADMIXTURES TYPE CLSM ADMIXTURE	DARAFILL	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	01/21/14	4711	A	CAPSULES (EGG)
02040.10	CHEMICAL ADMIXTURES TYPE CLSM ADMIXTURE	DARAFILL BP	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	01/21/14	4712	A	
02040.10	CHEMICAL ADMIXTURES TYPE CLSM ADMIXTURE	DARAFILL DRY	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	01/21/14	4710	A	
02040.10	CHEMICAL ADMIXTURES TYPE CLSM ADMIXTURE	EUCON EASY FILL	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON SUPPLY 800/537-3407	07/07/14	4793	A	
02040.10	CHEMICAL ADMIXTURES TYPE CLSM ADMIXTURE	GOLDEN AIR	AERIX INDUSTRIES 484/223-0279 FORTA CORPORATION 724/458-5221	01/21/14	4721	A	
02040.10	CHEMICAL ADMIXTURES TYPE CLSM ADMIXTURE	MASTERCELL 25	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	01/21/14	4708	A	WAS RHEOCELL RHEOFILL 1/14

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02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCER / RETARDER	EUCON SE	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	10/29/18	5142	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCER / RETARDER	V-MAR VSC 500	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	04/08/10	4129	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCER / RETARDER	WRDA 82	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	03/10/11	771	A	SAME AS WRDA PAVE 18
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCER / RETARDER	WRDA PAVE 18	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	04/14/11	4274	A	SAME AS WRDA 82
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCER/RETARDER	EUCON WR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	01/12/06	2261	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCER/RETARDER	EUCON WR91	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	09/09/04	2259	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCER/RETARDER	FR - 1	FRITZ-PAK 888/746-4116 MASONS SUPPLY 800/537-3407	07/13/00	2147	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	DARATARD 17	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	05/01/88	1883	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	EUCON DS	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	07/07/14	4796	A	

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02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	EUCON LR WAS BORAL LR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	09/13/01	1732	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	EUCON RETARDER 100	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	09/09/04	2255	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	EUCON STASIS	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	03/21/19	5182	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	EUCON TR WAS BORAL TR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	06/14/01	1735	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	MASTERPOZZOLITH 700	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	01/21/14	4707	A	WAS POZZOLITH 700N 1/14
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	MASTERSET R 100	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2055	A	WAS POZZOLITH 100XR 1/14
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	MASTERSET R 300	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2058	A	WAS POZZOLITH 300R 1/14
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	PLASTIMTES	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 MASONS SUPPLY 800/537-3407 ATLAS SUPPLY 800/606-7952	03/10/11	4351	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	POLYCHEM R	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	05/08/03	2550	A	

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02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	SIKA PLASTIMENT	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 MASON'S SUPPLY 800/537-3407 ATLAS SUPPLY 800/606-7952	05/01/88	2051	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	SIKA PLASTIMENT XR	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109	06/14/16	4960	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	SIKA PLASTOCRETE-250	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/606-7952 MASON'S SUPPLY 800/537-3407	12/03/18	5167	A	
02040.10	CHEMICAL ADMIXTURES TYPE D ADMIXTURE WATER REDUCING RETARDER	SIKA TARD 440	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109	02/18/20	5230	A	
02040.10	CHEMICAL ADMIXTURES TYPE E ADMIXTURE WATER REDUCER-ACCELERATOR	ACCELGUARD 80 WAS EUCON CAN & BORAL CAN	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	07/12/01	1740	A	
02040.10	CHEMICAL ADMIXTURES TYPE E ADMIXTURE WATER REDUCER-ACCELERATOR	ACCELGUARD NCA	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	07/07/14	4797	A	
02040.10	CHEMICAL ADMIXTURES TYPE E ADMIXTURE WATER REDUCER-ACCELERATOR	ACCELGUARD G3	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	04/07/16	4946	A	
02040.10	CHEMICAL ADMIXTURES TYPE E ADMIXTURE WATER REDUCER-ACCELERATOR	MASTERPOLYHEED 100	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1903	A	WAS POLYHEED FC 100 1/14
02040.10	CHEMICAL ADMIXTURES TYPE E ADMIXTURE WATER REDUCER-ACCELERATOR	MASTERSET FP 20	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2705	A	WAS POZZUTEC 20+ 1/14 NON CHLORIDE ACCEL AND POLYCARBOXYLATE DISPERSANT.

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02040.10	CHEMICAL ADMIXTURES TYPE E ADMIXTURE WATER REDUCER-ACCELERATOR	POLYCHEM SUPER SET	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	05/08/03	2551	A	
02040.10	CHEMICAL ADMIXTURES TYPE E ADMIXTURE WATER REDUCER-ACCELERATOR	SIKASET NC	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASONS SUPPLY 800/537-3407	01/12/06	3247	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA 140M SAME AS ADVA 140	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	06/08/06	2599	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA 150M	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	08/10/16	4972	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA 190	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	06/14/07	3459	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA 198	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	05/27/15	4886	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA CAST 575	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	05/10/07	3490	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA CAST 600	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	19/13/	4592	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA ITM750	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	07/03/19	5200	A	

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02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	CLARENA MC2000	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	09/13/17	5068	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	DARACEM 55	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	11/12/09	1294	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	DARCOLE SUPERFLO 1443 (DSF 1443)	DARCOLE PRODUCTS, INC 270/826-6499	12/28/20	5325	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	EUCON MR	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	01/12/06	2258	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	EUCON SP WAS BORAL SP	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	06/14/01	1738	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENIUM 1466	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	3238	A	WAS PS 1466
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENIUM 3030	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	2524	A	WAS GLENIUM 3030 NS 1/14 DESIGNED FOR SELF LEVELING CONCRETE.
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENIUM 3400	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	3047	A	WAS GLENIUM 3400 NV 1/14
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENIUM 7101	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	06/14/07	3484	A	WAS GLENIUM 7101 1/14 NOT COMPATIBLE WITH BETA- NAPHTHALENE SULFONATE ADDITIVE

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02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENLIUM 7500	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	07/12/07	3501	A	WAS GLENLIUM 7500 1/14 NOT COMPATIBLE WITH BETA- NAPHTHALENE SULFONATE ADDITIVE
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENLIUM 7511	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	04/18/17	5050	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENLIUM 7700	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	09/13/07	3536	A	WAS GLENLIUM 7700 1/14 NOT COMPATIBLE WITH BETA- NAPHTHALENE SULFONATE ADDITIVE
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERGLENLIUM 7920	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	01/08/15	4856	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MASTERPOLYHEED 980	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	07/03/19	5201	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MELCHEM	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	04/14/05	2554	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MIRA 110	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	11/12/09	3992	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MIRA 62	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	04/09/09	3850	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	MIRA 95	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	05/27/15	4887	A	

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02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	POLYCHEM SPC	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	03/21/19	5181	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	SIKAMENT 475	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASONS SUPPLY 800/537-3407	10/20/16	5010	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER FOR PRECAST/PRESTRESS	ADVA CAST 555	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	06/08/06	3324	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	ADVA 195	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	01/08/09	3725	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	ADVA 405	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	03/10/11	4354	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	ADVA CAST 585	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	07/07/14	4798	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	ADVA FLEX	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	07/14/11	4405	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	CONCERA SA8080	GCP APPLIED TECHNOLOGIES INC. BOB HOOPEES 508/878-2397	05/22/18	5134	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	EUCON 37	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	09/09/04	2260	A	

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02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	EUCON RD2 WAS BORAL RD2	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	05/01/88	2049	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	EXP 950	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	12/03/18	5170	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	FRITZ SUPERCIZER 1	FRITZ-PAK 888/746-4116 MASON'S SUPPLY 800/537-3407	09/10/92	901	A	DESIGNED AS SLUMP CONTROL W/O ADDING MORE WATER. SUBMIT WITH MIX DESIGN.
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	FRITZ SUPERCIZER 5	FRITZ-PAK 888/746-4116 MASON'S SUPPLY 800/537-3407	09/10/92	902	A	CAN REDUCE WATER REQUIREMENTS UP TO 25%. SUBMIT W/MIX DESIGN
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	FRITZ SUPERCIZER 6	FRITZ-PAK 888/746-4116 MASON'S SUPPLY 800/537-3407	09/10/92	903	A	CAN REDUCE WATER REQUIREMENTS UP TO 40%. SUBMIT W/MIX DESIGN
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	MASTERRHEOBUILD 1000	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	1353	A	WAS RHEOBUILD 1000 1/14
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	PLASTOL 6200EXT	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	07/07/14	4795	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	PLASTOL 6400	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	07/07/14	4794	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	PLASTOL 6420	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	04/07/16	4945	A	

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02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	PLASTOL ULTRA 209	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	08/02/16	4967	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKA VISCOCRETE 1000	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	07/10/13	4680	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKA VISCOCRETE 2100	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3251	A	EXTENDED SLUMP LIFE: 60-90 MIN
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKA VISCOCRETE 2110	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	03/10/11	4350	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKA VISCOCRETE 4100	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3250	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKA VISCOCRETE 6100	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3252	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKAMENT 686	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	01/12/06	3249	A	
02040.10	CHEMICAL ADMIXTURES TYPE F ADMIXTURE WATER REDUCER	MASTERPOLYHEED 997	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/12/06	213	A	WAS POLYHEED 997 1/14 WAS POZZOLITH POLYHEED. 198
02040.10	CHEMICAL ADMIXTURES TYPE G ADMIXTURE HI RANGE H2O REDUCE/RETARD	FRITZ-PAK SUPERCIZER 7	FRITZ-PAK 888/746-4116 MASON'S SUPPLY 800/537-3407	07/12/01	2146	A	

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02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE AIR-DETRAINING	MASTERSURE 1390 ADMIXTURE	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	11/14/17	5089	A	
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE RHEOLOGY MODIFIER	VMAR F100	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	03/19/14	4757	A	
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE SHRINKAGE REDUCER	SIKA CONTROL NS	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASONS SUPPLY 800/537-3407	02/18/20	5229	A	TYPE S SHRINKAGE REDUCING ADMIXTURE
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE SHRINKAGE REDUCING	ECLIPSE 4500	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	02/10/11	3979	A	TYPE S SHRINKAGE REDUCING ADMIXTURE
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE SHRINKAGE REDUCING	EUCON SRA-XT	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	07/07/14	4791	A	TYPE S SHRINKAGE REDUCING ADMIXTURE
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE SHRINKAGE REDUCING	MASTERLIFE CRA 007	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	02/17/16	4941	A	TYPE S SHRINKAGE REDUCING ADMIXTURE
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE SHRINKAGE REDUCING	MASTERLIFE SRA 035	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	08/29/16	4982	A	TYPE S SHRINKAGE REDUCING ADMIXTURE
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE SHRINKAGE REDUCING	MASTERLIFE SRA 20	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	03/18/14	4754	A	TYPE S SHRINKAGE REDUCING ADMIXTURE
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE SHRINKAGE REDUCING	SIKA CONTROL-75	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109	06/14/16	4961	A	TYPE S SHRINKAGE REDUCING ADMIXTURE

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02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE VISCOSITY MODIFIER	MAPECRETE V3K	MAPEI 954/246-8520	11/13/20	5297	A	
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE VISCOSITY MODIFIER	MASTERMATRIX VMA 358	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	05/14/09	2526	A	WAS RHEOMAC VMA 358 1/14 DESIGNED FOR SELF LEVELING CONCRETE
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE VISCOSITY MODIFIER	SIKA STABILIZER 300SCC	SIKA CORPORATION 800/933-7452 NATE ARTMAN 330-495-0109 ATLAS SUPPLY 800/806-7952 MASONS SUPPLY 800/537-3407	02/18/20	5233	A	
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE VISCOSITY MODIFIER	VISCTROL	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	07/07/14	4792	A	
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE VISCOSITY MODIFIER	V-MAR 3	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	05/14/09	3197	A	REPORT ANY UNUSUAL CRACKING OR OTHER PROBLEMS.
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE WORKABILITY	ADVA ITM750	GCP APPLIED TECHNOLOGIES INC. BOB HOOPES 508/878-2397	07/03/19	5200	A	
02040.10	CHEMICAL ADMIXTURES TYPE S ADMIXTURE WORKABILITY RETAINING	MASTERSURE Z 60	BASF - ADMIXTURES 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	03/10/11	3901	A	WAS RHEOTEC Z-60 NAME CHANGE 1-14
02045.10	SYNTHETIC FIBER REINFORCING MICRO	FIBERFORCE 150	ABC POLYMER INDUSTRIES, LLC 205/620-9889 LAURIE LEISCHNER 541/643-2555	10/20/16	5012	A	DOSE RATE OF 1.0 POUNDS PER CUBIC YARD FOR COMMERCIAL GRADE CONCRETE NOT FOR HIGH PERFORMANCE CONCRETE
02045.10	SYNTHETIC FIBER REINFORCING MICRO	MASTERFIBER F100	BASF-ADMIXTURE 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	04/27/16	4951	A	DOSE RATE OF 1.5 POUNDS PER CUBIC YARD FOR COMMERCIAL GRADE CONCRETE NOT FOR HIGH PERFORMANCE CONCRETE

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02045.10	SYNTHETIC FIBER REINFORCING MICRO	SINTA M2219 WAS GRACE MICROFIBER	GCP APPLIED TECHNOLOGIES INC. BOB HOOPE 508/878-2397	10/20/14	4835	A	DOSE RATE OF 1.0 POUNDS PER CUBIC YARD FOR COMMERCIAL GRADE CONCRETE NOT FOR HIGH PERFORMANCE CONCRETE
02045.20	SYNTHETIC FIBER REINFORCING MACRO	FIBERFORCE 1000HP	ABC POLYMER INDUSTRIES, LLC 205/620-9889 LAURIE LEISCHNER 541/643-2555	03/19/18	5112	A	DOSE RATE OF 5 POUNDS PER CUBIC YARD FOR HIGH PERFORMANCE CONCRETE
02045.20	SYNTHETIC FIBER REINFORCING MACRO	FORTA FERRO	FORTA CORPORATION BOB GRACE 800/245-0306	03/24/15	4880	A	DOSE RATE OF 5.5 POUNDS PER CUBIC YARD FOR HIGH PERFORMANCE CONCRETE
02045.20	SYNTHETIC FIBER REINFORCING MACRO	MASTERFIBER MAC MATRIX	BASF-ADMIXTURE 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	01/19/16	4940	A	DOSE RATE OF 5 POUNDS PER CUBIC YARD FOR HIGH PERFORMANCE CONCRETE
02045.20	SYNTHETIC FIBER REINFORCING MACRO	STRUX 90/40	GCP APPLIED TECHNOLOGIES INC. BOB HOOPE 508/878-2397	01/21/14	4090	A	DOSE RATE OF 5.5 POUNDS PER CUBIC YARD FOR HIGH PERFORMANCE CONCRETE
02045.20	SYNTHETIC FIBER REINFORCING MACRO	STRUX BT50	GCP APPLIED TECHNOLOGIES INC. BOB HOOPE 508/878-2397	01/21/14	4741	A	DOSE RATE OF 7 POUNDS PER CUBIC YARD FOR HIGH PERFORMANCE CONCRETE
02045.30	SYNTHETIC FIBER REINFORCING BLEND	MASTERFIBER BLEND OF MAC 2200CB & M 100	BASF-ADMIXTURE 216/839-7500 MARK PIECHUTA 216/839-7072 DAVID MALINOFF 503/780-0580-7232	10/14/15	4933	A	DOSE RATE OF 4 # MAC 2200CB & 0.5# M 100 PER CUBIC YARD FOR HIGH PERFORMANCE CONCRETE
02050.10	CURING COMPOUND, CONCRETE TYPE 1, CLASS A	SEALTIGHT 1300 CLEAR VOC'S = 18G/L	W.R. MEADOWS 800/342-5976 CST-CONCRETE SPEC 541/567-8810 MASON'S SUPPLY 800/537-3407 WESTSIDE CONCRETE 503/591-0203	05/01/88	776	Q	CLEAR WAX. WATCH SHELF LIFE. NOT FOR USE ON PCC PAVING UNLESS COLORED CONCRETE IS SPECIFIED TESTING REQUIRED ONLY FOR PCC PAVING
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A	AMERICAN WHITE WAX DOT CURE VOC'S = 42 G/L	AMERICAN CONCRETE SYSTEMS INC REP. JAN WINN 619/578-5270 WESTSIDE CONCRETE ACCESSORIES BRIAN MCALLISTER 503/591-0203	02/19/92	832	Q	WHITE WAX. MIX WELL. TESTING REQUIRED ONLY FOR PCC PAVING

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02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A	L & M CURE W-2 VOC = 25 G/L	L & M CONSTRUCTION CHEMICALS 800/362-3331 OR 420/453-6600 BILL PAVITT 425/562-6076	07/09/92	850	Q	WATERBASED. MIX WELL. TESTING REQUIRED ONLY FOR PCC PAVING
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A	SEALTIGHT 1635 VOC'S = 18 G/L	W.R. MEADOWS 800/342-5976 CST-CONCRETE SPEC 541/567-8810 MASON'S SUPPLY 800/537-3407 WESTSIDE CONCRETE 503/591-0203	03/09/00	1038	Q	WHITE WAX. WATCH SHELF LIFE. TESTING REQUIRED ONLY FOR PCC PAVING
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A	WHITE WAX CURE 49A VOC'S = 42 G/L	DAYTON SUPERIOR 800/745-3703 LISA WEAVER 937/866-0711 X44187	03/11/10	3924	Q	 TESTING REQUIRED ONLY FOR PCC PAVING
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A & B	SEALTIGHT 1200 VOC'S = 69G/L	W.R. MEADOWS 800/342-5976 CST-CONCRETE SPEC 541/567-8810 MASON'S SUPPLY 800/537-3407 WESTSIDE CONCRETE 503/591-0203	08/08/91	760	Q	WHITE RESIN. WATCH SHELF LIFE TESTING REQUIRED ONLY FOR PCC PAVING
02050.30	CURING BLANKET, CONCRETE	GEOTEX CCB6	PROPEX OPERATING COMPANY, LLC 423/553-2463 ACF WEST INC. 503/771-5115	12/10/12	4555	A	POLYPROPYLENE FABRIC. STILL NEEDS POLYETHYLENE FABRIC AS WITH BURLAP.
02050.30	CURING BLANKET, CONCRETE	SKAPS GE160 WHITE	SKAPS VIA GEOTEK 888/708-8835	04/13/06	3228	A	NON-WOVEN NEEDLE PUNCHED POLYPROPYLENE FABRIC. STILL NEEDS POLYETHYLENE FABRIC AS WITH BURLAP.
02055.10	CONCRETE SURFACE RETARDER FORM SURFACES	FORMULA F SURFACE RETARDER	EUCRID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	10/14/10	3559	A	OK FOR PLACEMENT ON FORMS. TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FORM SURFACES	MBT HI-V	BASF 952/496-6000 BRUCE JACKSON 503/722-4101	12/10/09	3568	A	OK FOR PLACEMENT ON FORMS. TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FORM SURFACES	MBT TUF-COTE	BASF 952/496-6000 BRUCE JACKSON 503/722-4101	12/13/07	3578	A	OK FOR PLACEMENT ON FORMS. TEST TO DETERMINE CURE TIME.

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02055.10	CONCRETE SURFACE RETARDER FORM SURFACES	MBT X-POZ-R	BASF 952/496-6000 BRUCE JACKSON 503/722-4101	12/13/07	3577	A	OK FOR PLACEMENT ON FORMS TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FORM SURFACES	PIERI DURO-TARD	GCP APPLIED TECHNOLOGIES INC. DENNIS BAUGH 703/626-1577 MASONS SUPPLY 800/537-3407	12/10/09	3561	A	OK FOR PLACEMENT ON FORMS TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FORM SURFACES	SUPER TARD-F	CLEMONS CONCRETE COATINGS 615/872-9099	12/10/09	3558	A	OK FOR PLACEMENT ON FORMS TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FRESH CONCRETE SURFACES	FORMULA S SURFACE RETARDER	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	10/14/10	4215	A	OK FOR PLACEMENT- FRESH CONCR. TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FRESH CONCRETE SURFACES	MBT EAC-S	BASF 952/496-6000 BRUCE JACKSON 503/722-4101	12/13/07	3576	A	OK FOR PLACEMENT- FRESH CONCR. TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FRESH CONCRETE SURFACES	MBT X-POZ-R	BASF 952/496-6000 BRUCE JACKSON 503/722-4101	12/13/07	3577	A	OK FOR PLACEMENT- FRESH CONCR. TEST TO DETERMINE CURE TIME.
02055.10	CONCRETE SURFACE RETARDER FRESH CONCRETE SURFACES	SPECETCH	SPECICHEM LLC 816/968-5600 WHITE CAP 503/287-4151	06/13/14	4778	A	OK FOR PLACEMENT- FRESH CONCR. TEST TO DETERMINE CURE TIME.
02060.10	CONCRETE AND CRACK SEALER LOW MOD EPOXY	DURAL 50 LM	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	06/14/07	3447	A	
02060.10	CONCRETE AND CRACK SEALER LOW MOD EPOXY	E-BOND 525 PENETRATING SEALER CRACK HEALER PRIMER	E-BOND EPOXIES, INC 954/566-6555 TRANSPO INDUSTRIES 914/636-1000	01/21/14	4705	A	

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02060.10	CONCRETE AND CRACK SEALER LOW MOD EPOXY	EP-100	E-CHEM LLC. 720/201-8810	08/10/16	4980	A	
02060.10	CONCRETE AND CRACK SEALER LOW MOD HMWM	KBP FLEX	KWIK BOND POLYMERS.LLC DAN ULDALL.360/600-7762	03/24/15	4882	A	
02060.10	CONCRETE AND CRACK SEALER LOW MOD HMWM	TRANSP SEALATE T70MX-30	TRANSPO INDUSTRIES 914/636-1000	03/10/05	2488	A	3 PART MOISTURE SENSITIVE
02060.10	CONCRETE AND CRACK SEALER LOW-MOD EPOXY	PRO-POXY 40 FS	DAYTON SUPERIOR/UNITEX STEVE HACKWORTH 253/2450263 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	01/03/17	5029	A	2 PART EPOXY
02060.10	CONCRETE AND CRACK SEALER LOW-MOD EPOXY	PRO-POXY 40 LV LM	Unitex by Dayton Superior David Minor 970/286-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	02/10/11	4159	A	
02060.20	CONCRETE AND CRACK SEALER HIGH MOD EPOXY	CCS COATING EPOXY HEALER SEALR	CHEMCO SYSTEMS 800/757-6773 650/281-3790	07/12/07	2338	A	MOISTURE SENSITIVE
02060.20	CONCRETE AND CRACK SEALER HIGH MOD EPOXY	CRACKBOND HEALER / SEALER	ADHESIVES TECHNOLOGY CORP 954/789-4764	10/29/18	5162	A	2 COMPONENT EPOXY FOLLOW MANUFACTURERS TEMPERATURE REQUIREMENTS.
02060.20	CONCRETE AND CRACK SEALER HIGH MOD EPOXY	DURAL 335	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	03/10/05	1918	A	
02060.20	CONCRETE AND CRACK SEALER HIGH MOD EPOXY	EP-100 HM	E-CHEM 720/201-8810	08/02/16	4975	A	2 COMPONENT EPOXY 50° F MINIMUM APPLICATION

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02060.20	CONCRETE AND CRACK SEALER HIGH MOD HMWM	KBP-103	KWIK BOND POLYMERS DAN ULDALL 360/600-7762	03/10/05	2597	A	3 PARTS. 6 MO SHELF LIFE. CRACKS: .004 - .118 CHECK W/MFG MFG CLAIMS OK FOR DAMP SURFACE 40-100 DEGREES F. REMOVE EXGES
02060.20	CONCRETE AND CRACK SEALER HIGH MOD HMWM	KBP-204	KWIK BOND POLYMERS DAN ULDALL 360/600-7762	03/10/05	2598	A	3 PARTS. 6 MONTH SHELF LIFE. CRACKS: .004 - .118 CHECK W/MFG MFG CLAIMS OK FOR DAMP SURFACE 40-100 DEGREES F. REMOVE EXGES
02060.20	CONCRETE AND CRACK SEALER HIGH MOD HMWM	SIKA PRONTO 19TF	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5916 MASON'S SUPPLY 800/537-3407 ATLAS SUPPLY 800/606-7952	03/10/05	1072	A	MOISTURE SENSITIVE
02060.20	CONCRETE AND CRACK SEALER HIGH MOD HMWM	SURE SEAL HMWM	Unitex by Dayton Superior David Minor 970/286-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	12/05/16	5018	A	3 COMPONENT, ACCELERATOR NOT TO BE USED
02060.30	CONCRETE SEALER WATER REPELLENT	BARCADE SILANE 100C	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	07/03/19	5205	A	100% SILANE 100% SILANE ALBERTA DOT 1C, LIST APPROVED
02060.30	CONCRETE SEALER WATER REPELLENT	MASTER PROTECT H 1000 WAS HYDROZO 100	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	06/14/07	2177	A	100% SILANE ALBERTA DOT 1C LIST APPROVED
02060.30	CONCRETE SEALER WATER REPELLENT	PROTECTOSIL BHN	EYONIK CORPORATION 360/904-9847 SALLECO INC. 253/841-2849	06/16/15	4891	A	100% SILANE ALBERTA DOT 1C LIST APPROVED
02060.30	CONCRETE SEALER WATER REPELLENT	SEALMASTER 100%	TECHNICAL BARRIER SYSTEMS 888/537-2888 BRUCE HOLLIDAY 503/646-0801	11/11/10	4155	A	100% SILANE ALBERTA DOT 1C LIST APPROVED.
02060.30	CONCRETE SEALER WATER REPELLENT	SIL-ACT ATS 100	ADVANCED CHEMICAL TECHNOLOGIES KEVIN BROWN 800/535-0433 JIM SULLIVAN 206/484-8236	02/10/11	4337	A	100% SILANE ALBERTA DOT 1C LIST APPROVED

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02060.30	CONCRETE SEALER WATER REPELLENT	SIL-ACT ATS 100LV	ADVANCED CHEMICAL TECHNOLOGIES KEVIN BROWN 800/535-0433 JIM SULLIVAN 206/484-8236	05/09/18	5122	A	100% SILANE. ALBERTA DOT 1C LIST APPROVED
02060.30	CONCRETE SEALER WATER REPELLENT	SW-244-100VOC	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	08/12/10	4179	A	100% SILANE. ALBERTA DOT 1C, LIST APPROVED
02070.10	BONDING AGENT, EPOXY	CRACKBOND 2100 MV WAS (ULTRABOND 2100)	ADHESIVES TECHNOLOGY RICHARD BOLAND 800/892-1880	03/11/13	4600	A	TYPE IV, V GRADE 1 CLASS B & C
02070.10	BONDING AGENT, EPOXY	DURAL 452 GEL	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	03/17/14	4750	A	TYPE IV, V GRADE 3 CLASS C
02070.10	BONDING AGENT, EPOXY	DURAL 452 LV	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	03/17/14	4752	A	TYPE IV, GRADE 1 CLASS C
02070.10	BONDING AGENT, EPOXY	DURAL 452 MV	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	03/17/14	4751	A	TYPE IV, V GRADE 2 CLASS 2
02070.10	BONDING AGENT, EPOXY	DURAL FAST SET EPOXY GEL	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	03/17/14	4753	A	TYPE IV, GRADE 3 CLASS B & C
02070.10	BONDING AGENT, EPOXY	LIQUID ROC 500+	MKT FASTENING, LLC 501/676-2222	03/19/18	5104	A	TYPE IV, GRADE 3, CLASS B 7 C
02070.10	BONDING AGENT, EPOXY	PRO-POXY 204	Unitex by Dayton Superior David Minor 970/286-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	12/14/06	3122	A	TYPE IV, V GRADE 2 CLASS B & C

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02070.10	BONDING AGENT, EPOXY	RED HEAD C6+	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA-RED HEAD 630/694-4855 206/450-4221	11/16/17	5091	A	TYPE IV, V GRADE 3 CLASS B & C
02070.10	BONDING AGENT, EPOXY	RED HEAD G5+	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA-RED HEAD 630/694-4855 206/450-4221	09/29/17	5080	A	TYPE IV, V GRADE 3 CLASS B & C
02070.10	BONDING AGENT, EPOXY	SIKADUR 32 HI MOD	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 MASONS SUPPLY 800/537-3407	12/10/09	505	A	TYPE V, GRADE 2, CLASS C
02070.10	BONDING AGENT, EPOXY	SPECPOXY 1000	SPECHEM LLC 816/968-5600 WHITE CAP 503/287-4151	06/13/14	4780	A	TYPE IV, V GRADE 1 CLASS B & C
02070.10	BONDING AGENT, EPOXY	SPECPOXY 2000	SPECHEM LLC 816/968-5600 WHITE CAP 503/287-4151	06/13/14	4782	A	TYPE IV, V GRADE 2 CLASS B & C
02070.10	BONDING AGENT, EPOXY	SPECPOXY 3000	SPECHEM LLC 816/968-5600 WHITE CAP 503/287-4151	09/03/14	4833	A	TYPE IV, V GRADE 3 CLASS C
02070.10	BONDING AGENT, EPOXY	UNITEX SLOW SET BONDING AGENT	Unitex by Dayton Superior David Minor 970/286-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	05/10/07	3123	A	TYPE V GRADE 2 CLASS B & C
02070.20	BONDING AGENT, NON-EPOXY	ACRYLCOAT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	11/16/17	5086	A	USE ABOVE 40 DEGREES F AND ABOVE 40 DEGREES FOR 48 HOURS CURE TIME.
02070.20	BONDING AGENT, NON-EPOXY	EVERBOND	L & M CONSTRUCTION CHEMICALS 800/362-3331 OR 420/453-6600	07/09/09	1315	A	ASTM C1059 TYPE II

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02070.20	BONDING AGENT, NON-EPOXY	TARGET POLYMER BONDING AGENT	TARGET PRODUCTS 800/575-7700 WILLAMETTE GRYS TN 541/726-7666 WILLIAMS FORM ENG 800/255-0560	05/01/88	1194	A	
02070.20	BONDING AGENT, NON-EPOXY	US SPEC DURA	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WILLIAMS FORM 800/255-0560	09/17/14	4806	A	USE ABOVE 40 DEGREES F AND ABOVE 40 DEGREES FOR 48 HOURS CURE TIME.
02080.10	GROUT, EPOXY	EP15-GROUT	E-CHEM, LLC 505/217-2121	03/19/18	5108	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	1107 ADVANTAGE GROUT	DAYTON SUPERIOR 800/745-3703 LISA WEAVER 937/866-0711 X44187	12/10/98	1427	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	CRYSTEX	L & M CONSTRUCTION CHEMICALS 800/362-3331 OR 420/453-6600 BILL PAVITT 425/562-6076	07/09/09	319	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	EG GROUT	US MIX CO. 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	05/24/18	5139	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	EUCO NS GROUT	EUCALID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	10/09/08	1233	A	CEMENTITIOUS BASED.
02080.20	GROUT, NON-EPOXY NON-SHRINK	FASTRAC NS GROUT	WESTERN MATERIALS & DESIGN 816/430-5452	12/31/20	5298	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	FIVE STAR FLUID GROUT 100	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 MASONS SUPPLY 800/537-3407	01/16/15	4868	A	

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02080.20	GROUT, NON-EPOXY NON-SHRINK	FIVE STAR GROUT	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	07/14/11	4301	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	FIVE STAR INSTANT GROUT	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	05/01/88	1216	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	HE GROUT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	09/13/17	5069	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	NC GROUT	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	04/11/06	1425	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	PLANIGROUT 712	MAPEI 954/246-8520 WILLIAMS FORM ENGINEERING CORP. 503/286-3647	08/30/16	4989	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	PROSPEC HIGH STRENGTH PRECISION GROUT	H.B. FULLER CONSTRUCTION PRODUCTS 331/255-6116 HD SUPPLY WHITECAP 503/287-4151	12/03/18	5169	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	QUKRETE NON-SHRINK PRECISION GROUT 1565-00	THE QUIKRETE COMPANIES, LLC 412/759-1333	04/30/20	5222	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	SC MULTIPURPOSE GROUT	SPEC CHEM 913/371-8700 MASONS 800/537-3407 WHITE CAP 800/456-7445	07/09/09	3494	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	SIKAGROUT 212	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5917 ATLAS SUPPLY 800/806-7952 MASONS SUPPLY 800/537-3407	12/10/09	546	A	

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02080.20	GROUT, NON-EPOXY NON-SHRINK	SIKAGROUT 328	SIKA CORPORATION 800/933-7452	11/03/20	5299	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	TARGET PORTLAND EXPANDING GROUT	TARGET PRODUCTS 800/575-7700 WILLAMETTE GRYSTN 541/726-7666 WILLIAMS FORM ENG 800/255-0560	12/17/93	668	A	NON-SHRINK GROUT.
02080.20	GROUT, NON-EPOXY NON-SHRINK	UNITEX MULTIPURPOSE GROUT	Unitex by Dayton Superior David Minor 970/286-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	04/12/07	3472	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	US SPEC GP GROUT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	11/11/10	1930	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	US SPEC MP GROUT ODOT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	11/11/10	3424	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	US SPEC RA GROUT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	06/12/14	4775	A	
02080.20	GROUT, NON-EPOXY NON-SHRINK	WIL-X CEMENT	WILLIAMS FORM 800/255-0560	10/09/03	2890	A	
02080.30	GROUT, KEYWAY	1107 ADVANTAGE GROUT	DAYTON SUPERIOR 800/745-3703 LISA WEAVER 937/866-0711 X44187	12/10/98	1427	A	
02080.30	GROUT, KEYWAY	CRYSTEX	L & M CONSTRUCTION CHEMICALS 800/362-3331 OR 420/453-6600 BILL PAVITT 425/563-6076	07/09/09	319	A	

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02080.30	GROUT, KEYWAY	EUCONS GROUT	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	10/09/08	1233	A	CEMENTITIOUS BASED.
02080.30	GROUT, KEYWAY	FIVE STAR INSTANT GROUT	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 WHITE CAP 503/287-4151 MASON'S SUPPLY 800/537-3407	05/01/88	1216	A	
02080.30	GROUT, KEYWAY	HE GROUT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	09/13/17	5069	A	
02080.30	GROUT, KEYWAY	SIKAGROUT 212	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	12/10/09	546	A	
02080.30	GROUT, KEYWAY	SIKAGROUT 328	SIKA CORPORATION 800/933-7452	11/03/20	5299	A	
02080.30	GROUT, KEYWAY	TARGET PORTLAND EXPANDING GROUT	TARGET PRODUCTS 800/575-7700 WILLAMETTE GRYSTN 541/726-7666 WILLIAMS FORM ENG 800/255-0560	05/01/88	668	A	
02080.30	GROUT, KEYWAY	UNITEX MULTIPURPOSE GROUT	Unitex by Daykon Superior David Minor 970/286-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	04/12/07	3472	A	
02080.30	GROUT, KEYWAY	US SPEC GP GROUT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	11/11/10	1930	A	
02080.30	GROUT, KEYWAY	US SPEC MP GROUT ODOT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	11/11/10	3424	A	

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02080.30	GROUT, KEYWAY CEMENTITIOUS	EG GROUT	US MIX CO. 800/397-9903 MEGAN LORD 503/287-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	05/24/18	5139	A	
02080.30	GROUT, KEYWAY CEMENTITIOUS	FIVE STAR GROUT	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/287-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	07/14/11	4301	A	
02080.30	GROUT, KEYWAY CEMENTITIOUS	SC MULTIPURPOSE GROUT	SPEC CHEM 913/371-8700 MASONS 800/537-3407 WHITE CAP 800/456-7445	07/09/09	3494	A	NONMETALLIC, NONSHRINK, CEMENTITIOUS GROUT. 2/3 WATER WITH DRY GROUT MIX THOROUGHLY THAN ADD 1/3 WATER MIX 2-3MINUTES.
02080.30	GROUT, KEYWAY CEMENTITIOUS W/ FLYASH	NC GROUT	EUCRID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	05/11/06	1425	A	
02080.50	GROUT, TENDON - VR 0-100' VERTICAL RISE: 0 - 100'	MASTER FLOW 1206 WAS MBT MASTERFLOW 1341	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	06/14/07	3010	Q	
02080.50	GROUT, TENDON - VR 0-100' VERTICAL RISE: 0 - 100'	EUCO CABLE GROUT PTX	EUCRID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	08/24/12	4513	Q	
02080.50	GROUT, TENDON - VR 0-100' VERTICAL RISE: 0 - 100'	FIVE STAR SPECIAL GROUT 400	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/287-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-2307	07/14/05	3134	Q	
02080.50	GROUT, TENDON - VR 0-100' VERTICAL RISE: 0 - 100'	TARGET 1121 CABLE DUCT GROUT	TARGET PRODUCTS 800/575-7700 WILLIAMS FORM 503/286-3647 WHITECAP 503/287-4151	04/08/10	4089	Q	
02080.50	GROUT, TENDON - VR 0-100' VERTICAL RISE: 0 - 100'	US SPEC NA-100	US MIX 800/397-9903 MEGAN LORD 503/287-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	01/08/15	4861	Q	

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02080.50	GROUT, TENDON - VR 0-20' VERTICAL RISE: 0 - 20'	US SPEC NA-50	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	09/09/10	4206	Q	
02080.50	GROUT, TENDON - VR 0-6' VERTICAL RISE: 0 - 6'	MASTER FLOW 1205	BASF BUILDING SYSTEMS TECH: 800/433-9517 OPTION 5 BRUCE JACKSON 503/722-4101	06/14/07	2461	Q	PRODUCT NAME CHANGE PENDING
02080.50	GROUT, TENDON - VR 0-6' VERTICAL RISE: 0 - 6'	US SPEC NA GROUT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	04/13/06	3048	Q	
02080.60	GROUT, STRUCTURAL NON-EPOXY	1107 ADVANTAGE GROUT	DAYTON SUPERIOR 800/745-3703 LISA WEAVER 937/866-0711 X44187	12/10/98	1427	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	CRYSTEX	L & M CONSTRUCTION CHEMICALS 800/362-3331 OR 420/453-6600 BILL PAVITT 425/562-6076	07/09/09	319	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	EUCO NS GROUT	EUCOLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	10/09/08	1233	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	FIVE STAR FLUID GROUT 100	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 MASONS SUPPLY 800/537-3407	11/06/15	4868	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	FIVE STAR GROUT	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	07/14/11	4301	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	FIVE STAR INSTANT GROUT	FIVE STAR PRODUCT 800/243-2206 BRUCE HOLLIDAY 503/267-9515 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	05/01/88	1216	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.

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02080.60	GROUT, STRUCTURAL NON-EPOXY	NC GROUT	EUCALID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASON'S SUPPLY 800/537-3407	04/11/06	1425	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	PROSPEC HIGH STRENGTH PRECISION GROUT	H.B. FULLER CONSTRUCTION PRODUCTS 331/255-6116 HD SUPPLY WHITECAP 503/287-4151	12/03/18	5169	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	SC MULTIPURPOSE GROUT	SPEC CHEM 913/371-8700 MASON'S 800/537-3407 WHITE CAP 800/456-7445	07/09/09	3494	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	SIKAGROUT 212	SIKA CORPORATION 800/933-7452 THAD BROWN 425/486-5917 ATLAS SUPPLY 800/806-7952 MASON'S SUPPLY 800/537-3407	12/10/09	546	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	TARGET PORTLAND EXPANDING GROUT	TARGET PRODUCTS 800/575-7700 WILLAMETTE GRYSTN 541/726-7666 WILLIAMS FORM ENG 800/255-0560	12/17/93	668	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	UNITEX MULTIPURPOSE GROUT	Unitex by Daykon Superior David Minor 970/286-9229 WILLIAMS FORM ENG 800/255-0560 KNIFE RIVER 503/648-3100	04/12/07	3472	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	US SPEC GP GROUT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	11/11/10	1930	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02080.60	GROUT, STRUCTURAL NON-EPOXY	US SPEC MP GROUT ODOT	US MIX 800/397-9903 MEGAN LORD 503/267-1970 WESTSIDE CONCRETE 503/591-0203 WILLIAMS FORM 800/255-0560	11/11/10	3424	A	BRIDGE BEARINGS, BEARING PLATES OTHER LOAD BEARING APPLICATIONS.
02110.20	GUARDRAIL BLOCKS, PLASTIC - WOOD/STEEL POST	MONDO BLOCK II	MONDO POLYMER TECHNOLOGIES RENO, OHIO, 614/376-9396	10/10/02	2635	A	STRONG STEEL OR WOOD POSTS.

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02110.20	GUARDRAIL BLOCKS, PLASTIC BLOCK- STEEL POST	8IN KING MASH16 COMPOSITE BLOCK	TRINITY HIGHWAY PRODUCTS, LLC 916/644-9102	10/08/20	5295	A	FOR STEEL POSTS ONLY. MASH 16 TL-3
02110.20	GUARDRAIL BLOCKS, PLASTIC BLOCK- STEEL POST	DURA-BULL BLOCKOUT	CREATIVE BUILDING PRODUCTS 800/860-2855	12/12/96	1520	A	RECYCLED PLASTIC BLOCK FOR GUARDRAIL INSTALLATIONS. SPECIAL PROVISION SP00810
02110.20	GUARDRAIL BLOCKS, PLASTIC BLOCK- STEEL POST	KING BLOCK MODIFIED 2007	TRINITY INDUSTRIES, INC. MIKE MADDEN 800/772-7976 DON GRIPNE 360/943-9559	10/11/07	3531	A	THIS MODEL IS FOR STEEL POSTS ONLY. 70% RECYCLED PLASTIC.
02110.20	GUARDRAIL BLOCKS, PLASTIC BLOCK- STEEL POST	LIFETIME BLOCKOUTS	LIFETIME LUMBER PRODUCTS 419/478-9000	01/11/01	2355	A	RECYCLED COMPOSITE BLOCK FOR GUARDRAIL INSTALLATIONS. STEEL POSTS
02110.20	GUARDRAIL BLOCKS, PLASTIC BLOCK- STEEL POST	MONDO POLYMER BLOCKOUT FOR MIDWEST GUARDRAIL SYSTEM (MGS)	MONDO POLYMER TECHNOLOGIES 740/376-9396	03/17/16	4944	A	FOR STEEL POSTS ONLY. MASH TL-3 (STRONG STEEL POST W-BEAM GR)
02110.20	GUARDRAIL BLOCKS, PLASTIC BLOCK- STEEL POST	P-BLOCK SERIES: P-BLOCK	MONROEVILLE INDUSTRIAL MOLDING 419/668-1820	10/08/09	3960	A	FOR STEEL POSTS ONLY.
02110.20	GUARDRAIL BLOCKS, PLASTIC BLOCK- STEEL POST	P-BLOCK SERIES: THRIE BEAM BLK	MONROEVILLE INDUSTRIAL MOLDING 419/668-1820	10/08/09	3962	A	FOR STEEL POSTS ONLY.
02190.30	WOOD, FIELD PRESERVATIVE TREATMENT	CU-89-RTU II	OSMOSE RAILROAD SERVICES, INC TOM POPE 770/632-6783	04/29/13	4624	A	CONTAINS 2% COPPER AS METAL. NAPHTHENATE
02190.30	WOOD, FIELD PRESERVATIVE TREATMENT	TENINO COPPER NAPHTHENATE	COPPER CARE WOOD PRESERVATIVE 402/562-6815	06/11/09	3727	A	CONTAINS 2% COPPER AS METAL.

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02210.20	TIMBER COATING	A-100 EXTERIOR OIL STAIN BLOCKING PRIMER A-100 EXTERIOR LATEX STAIN	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	01/21/14	4734	A	PRIMER AND TOP COAT SYSTEM
02210.20	TIMBER COATING	PURE PAINT PRIMER ACRI-LITE SATIN 7400 SERIES	MILLER PAINT CO 503/233-4491	01/21/14	4736	A	PRIMER AND TOP COAT SYSTEM
02210.20	TIMBER COATING	STAIN STOMPER EXERIOR PRIMER 2110-1200N FORTIS 350 EXTERIOR SATIN PAINT 2402	GLIDDEN 541/955-9754	01/21/14	4735	A	PRIMER AND TOP COAT SYSTEM
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	ACRYTUFF # 87G102	FORREST PAINT EUGENE, OR 97402 REP:MICHAEL JACKSON 541/342-1821	05/09/86	1438	A	SPECIALLY FORMULATED TO MEET OUR 100-82 FORMULA. ORIGINALLY: 99-87J24-04-0
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	LOXON ACRYLIC COATING A24W300 SERIES	SHERWIN WILLIAMS 360/609-1879 DERRICK CASTLE 913/481-0612	03/10/05	2249	A	BASE: A24W00351 & A24W00353 COLOR FEDERAL STANDARD 595C
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	MILLER EXTERIOR ACRYLIC #9191	MILLER PAINT CO 503/233-4491	05/01/88	1721	A	DESIGNED TO MEET THE ODOT EMULSION FORMULA 100-82.
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	RODDA EXTERIOR ACRYLIC #24735	RODDA PAINT 12000 SW GARDEN PLACE PORTLAND OR 97223 503/521-4300	05/01/88	1326	A	DESIGNED TO MEET ODOT EMULSION FORMULA 100-82. CONCRETE GRAY
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	TAMMSCOAT	EUCLID CHEMICAL COMPANY, THE 800/321-7628 DAVE DILLON 206/280-4576 MASONS SUPPLY 800/537-3407	03/13/03	2765	A	
02320.10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	ALLIANCE GEOSYNTHETICS BX2020	ALLIANCE GEOSYNTHETICS 503/261-3515	10/03/13	4698	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS

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02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	COMBGRID 30/30 Q1 151 GRK 3	NAUE AMERICA 208/661-7899 ADVANCED DRAINAGE 951/805-2079	07/14/11	4294	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	E'GRID 2020	HANES GEO COMPONENTS 336/747-1645	04/24/13	4623	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	GEOSTAR GEOBASE GB2020	GEOSTAR TECHNOLOGIES 901/881-2517 FERGUSON 503/240-6747	08/26/13	4683	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	GRIDPRO BXP-12	PROPEX OPERATING COMPANY, LLC 423/653-2463 ACF WEST INC. 503/771-5115	07/20/12	4507	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	MIRAFIRS80I	TENCATE GEOSYNTHETICS JULIA DANIEL 706/693-1744	01/16/15	4858	Q	IF USED DELETE SUBGRADE GEO FABRIC BID ITEM IF APPLICABLE SEE SPEC FOR DOCUMENTATION REQUIREMENT
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	SECUGRID 20/20 Q1	NAUE AMERICA 208/661-7899 ADVANCED DRAINAGE 951/805-2079	01/13/11	4295	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	SECUGRID 30/30 Q1	NAUE AMERICA 208/661-7899 ADVANCED DRAINAGE 951/805-2079	01/13/11	4296	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	TENSAR BX TYPE 2	TENSAR INTERNATIONAL CORP. 360/635-8418 ACF WEST 800/878-5115	01/13/11	4308	Q	SEE SPEC FOR DOCUMENTATION REQUIREMENT
02320, 10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	TENSAR SQ2020	TENSAR INTERNATIONAL CORP. 360/635-8418 ACF WEST 800/878-5115	03/31/17	5032	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS

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02320.10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	TENSAR TRIAX TX160	TENSAR INTERNATIONAL CORP. 360/635-8418 ACF WEST 800/878-5115	01/13/11	4307	Q	TRIANGULAR APERTURES EXCLUDE TRADITIONAL TESTING. SEE SPECS FOR DOCUMENTATION REQUIRED
02320.10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	TERRAGRID RX1200 MODEL 32160 & 38092 & 38377	HANES GEO COMPONENTS 336/747-1645	04/24/13	4622	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320.10	GEOGRID - SUBGRADE REINF. SUBGRADE REINFORCEMENT	TRIGRID EX2030	ALLIANCE GEOSYNTHETICS 503/261-3515	02/10/11	4339	Q	SEE SPECS FOR DOCUMENTATION REQUIREMENTS
02320.10	GEOGRID - TYPE I MSEW	FORTRAC 110	HUESKER, INC. 800/942-9418 STEVE LOTHSPIECH 704/588-5500 EXT 120	03/12/09	3795	Q	ULTIMATE TENSILE: 7410 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3710 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	FORTRAC 20	HUESKER, INC. 800/942-9418 STEVE LOTHSPIECH 704/588-5500 EXT 120	03/12/09	3791	Q	ULTIMATE TENSILE: 1500 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 713 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	FORTRAC 35	HUESKER, INC. 800/942-9418 STEVE LOTHSPIECH 704/588-5500 EXT 120	03/12/09	3792	Q	ULTIMATE TENSILE: 2400 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1200 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	FORTRAC 55	HUESKER, INC. 800/942-9418 STEVE LOTHSPIECH 704/588-5500 EXT 120	03/12/09	3793	Q	ULTIMATE TENSILE: 3710 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1860 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	FORTRAC 80	HUESKER, INC. 800/942-9418 STEVE LOTHSPIECH 704/588-5500 EXT 120	03/12/09	3794	Q	ULTIMATE TENSILE: 5380 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2690 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 03XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3744	Q	ULTIMATE TENSILE: 3500 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1660 LB/FT (WSDOT STANDARD PRACTICE T925)

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02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 05XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3745	Q	ULTIMATE TENSILE: 4700 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2230 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 07XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3746	Q	ULTIMATE TENSILE: 5900 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2790 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 08XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3747	Q	ULTIMATE TENSILE: 7400 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3510 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 10XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3748	Q	ULTIMATE TENSILE: 9500 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 4500 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 20XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3750	Q	ULTIMATE TENSILE: 13705 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 6490 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 22XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3751	Q	ULTIMATE TENSILE: 20559 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 9740 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	MIRAGRID 24XT - TENCATE	TENCATE (MIRAFI) 706/693-2226	05/13/10	3752	Q	ULTIMATE TENSILE: 27415 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 13000 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 100/05	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4391	Q	ULTIMATE TENSILE: 6849 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3446 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 110/05	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4392	Q	ULTIMATE TENSILE: 7534 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3790 LB/FT (WSDOT STANDARD PRACTICE T925)

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02320.10	GEOGRID - TYPE I MSEW	PARAGRID 12505	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4393	Q	ULTIMATE TENSILE: 8662 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 4307 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 15005	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4394	Q	ULTIMATE TENSILE: 10274 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 5169 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 17505	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4395	Q	ULTIMATE TENSILE: 11986 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 6030 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 18005	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4396	Q	ULTIMATE TENSILE: 12329 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 6203 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 20005	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4397	Q	ULTIMATE TENSILE: 13699 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 6892 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 3005	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4383	Q	ULTIMATE TENSILE: 2055 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1034 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 4005	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4384	Q	ULTIMATE TENSILE: 2740 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1378 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 5005	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4385	Q	ULTIMATE TENSILE: 3425 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1723 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 6005	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4386	Q	ULTIMATE TENSILE: 4110 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2068 LB/FT (WSDOT STANDARD PRACTICE T925)

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02320.10	GEOGRID - TYPE I MSEW	PARAGRID 65/05	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4387	Q	ULTIMATE TENSILE: 4552 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2240 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 70/05	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4388	Q	ULTIMATE TENSILE: 4795 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2412 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 80/05	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4389	Q	ULTIMATE TENSILE: 5479 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2756 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	PARAGRID 90/05	LINEAR COMPOSITES - MACCAFERRI BEN BOADO 301/223-6910 WWW.LINEARCOMPOSITES.COM	05/12/11	4390	Q	ULTIMATE TENSILE: 6164 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3101 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	RAUGRID 11X3N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4152	Q	ULTIMATE TENSILE: 7535 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3399 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	RAUGRID 13X3N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4153	Q	ULTIMATE TENSILE: 8905 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 4018 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	RAUGRID 15X3N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4154	Q	ULTIMATE TENSILE: 10275 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 4636 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	RAUGRID 3X3N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4147	Q	ULTIMATE TENSILE: 2055 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 927 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	RAUGRID 4X2N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4148	Q	ULTIMATE TENSILE: 2740 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1236 LB/FT (WSDOT STANDARD PRACTICE T925)

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02320.10	GEOGRID - TYPE I MSEW	RAUGRID 5X2N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4149	Q	ULTIMATE TENSILE: 3425 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1545 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	RAUGRID 6X3N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4150	Q	ULTIMATE TENSILE: 4110 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1854 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	RAUGRID 8X3N	LUCKENHAUS TECHNICAL TEXTILES PENNY CAMPBELL 866/513-6275	05/13/10	4151	Q	ULTIMATE TENSILE: 5480 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2472 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SF020	SYNTEEN TECHNICAL FABRICS DAN WINKLE 303/522-7830	05/13/10	4144	Q	ULTIMATE TENSILE: 1939 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 800 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SF035	SYNTEEN TECHNICAL FABRICS DAN WINKLE 303/522-7830	01/08/09	3781	Q	ULTIMATE TENSILE: 3055 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1280 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SF055	SYNTEEN TECHNICAL FABRICS DAN WINKLE 303/522-7830	01/08/09	3782	Q	ULTIMATE TENSILE: 4199 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1732 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SF080	SYNTEEN TECHNICAL FABRICS DAN WINKLE 303/522-7830	01/08/09	3783	Q	ULTIMATE TENSILE: 7398 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3052 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SF090	SYNTEEN TECHNICAL FABRICS DAN WINKLE 303/522-7830	05/13/10	4145	Q	ULTIMATE TENSILE: 8500 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3507 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SF110	SYNTEEN TECHNICAL FABRICS DAN WINKLE 303/522-7830	01/08/09	3784	Q	ULTIMATE TENSILE: 10207 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 4211 LB/FT (WSDOT STANDARD PRACTICE T925)

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02320.10	GEOGRID - TYPE I MSEW	SF350	SYNTEEN TECHNICAL FABRICS DAN WINKLE 303/522-7830	05/13/10	4146	Q	ULTIMATE TENSILE: 27400 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 11305 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SG150	STRATA SYSTEMS 800/680-7750	05/12/11	4376	Q	ULTIMATE TENSILE: 1875 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 874 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SG200	STRATA SYSTEMS 800/680-7750	05/12/11	4377	Q	ULTIMATE TENSILE: 3600 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1678 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SG350	STRATA SYSTEMS 800/680-7750	05/12/11	4378	Q	ULTIMATE TENSILE: 5000 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2331 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SG500	STRATA SYSTEMS 800/680-7750	05/12/11	4379	Q	ULTIMATE TENSILE: 6400 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2984 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SG550	STRATA SYSTEMS 800/680-7750	05/12/11	4380	Q	ULTIMATE TENSILE: 8150 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3800 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SG600	STRATA SYSTEMS 800/680-7750	05/12/11	4381	Q	ULTIMATE TENSILE: 9100 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 4242 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	SG700	STRATA SYSTEMS 800/680-7750	05/12/11	4382	Q	ULTIMATE TENSILE: 11800 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 5501 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	UX01400HS	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	05/13/10	3757	Q	ULTIMATE TENSILE: 4800 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1504 LB/FT (WSDOT STANDARD PRACTICE T925)

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 JANUARY 2021 (AMENDED MARCH 8, 2021)**

<u>STANDARD SPEC #</u>	<u>CATEGORY</u>	<u>PRODUCT NAME</u>	<u>LOCAL REPRESENTATIVE AND/OR MANUFACTURER</u>	<u>EFFECTIVE DATE</u>	<u>PRODUCT NUMBER</u>	<u>LIST</u>	<u>REMARKS</u>
02320.10	GEOGRID - TYPE I MSEW	UX01400MSE	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	01/08/09	3762	Q	ULTIMATE TENSILE: 4800 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 1504 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	UX01500HS	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	05/13/10	3758	Q	ULTIMATE TENSILE: 7810 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2492 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	UX01500MSE	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	01/08/09	3763	Q	ULTIMATE TENSILE: 7810 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 2492 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	UX01600HS	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	05/13/10	3759	Q	ULTIMATE TENSILE: 9870 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3149 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	UX01600MSE	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	01/08/09	3764	Q	ULTIMATE TENSILE: 9870 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3149 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	UX01700HS	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	05/13/10	3760	Q	ULTIMATE TENSILE: 11990 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3768 LB/FT (WSDOT STANDARD PRACTICE T925)
02320.10	GEOGRID - TYPE I MSEW	UX01700MSE	TENSAR EARTH TECH 800/292-4459 WILLIE LIEW 707/344-2090	01/08/09	3765	Q	ULTIMATE TENSILE: 11990 LB/FT (PER ASTM D6637) LONG-TERM TENSILE: 3768 LB/FT (WSDOT STANDARD PRACTICE T925)
02415.10	POLY DRAIN PIPE 4" - 10"	EAGLE CORR PE (DUAL WALL)	JM EAGLE 310/693-8200 EXT 7958	06/10/10	4136	A	
02415.10	POLY DRAIN PIPE 4" - 10"	ADS SINGLE WALL HDPE PERF. PIPE ADS DUAL ADS DUAL WALL HDPE PERF. PIPE	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDANIER 360/798-3731	12/02/16	5011	A	

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02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	12" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	08/14/08	3506	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	15" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	03/12/09	3717	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	18" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3508	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	24" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3510	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	30" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3512	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	36" PACIFIC CORRUGATED - PLAIN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	05/08/08	3625	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	ADS SERIES N-12 ST IB	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDANIER 360/798-3731	11/13/08	3435	A	12" TO 60" DIAMETERS.
02415.10	POLY NWT PIPE - CULVERT CORRUGATED HDPE NWT = NON WATER-TIGHT	HANCOR SURELOK F-477	HANCOR, 888/367-7473 KELLY KOKESH 425/457-1187	11/09/04	1890	A	DIAMETERS: 12" TO 60".
02415.10	POLY NWT PIPE - STORM CORRUGATED HDPE NWT = NON WATER-TIGHT	12" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	08/14/08	3506	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.

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02415.10	POLY NWT PIPE - STORM CORRUGATED HDPE NWT = NON WATER-TIGHT	15" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	03/12/09	3717	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - STORM CORRUGATED HDPE NWT = NON WATER-TIGHT	18" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3508	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - STORM CORRUGATED HDPE NWT = NON WATER-TIGHT	24" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3510	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - STORM CORRUGATED HDPE NWT = NON WATER-TIGHT	30" PACIFIC CORRUGATED HD-PLN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3512	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - STORM CORRUGATED HDPE NWT = NON WATER-TIGHT	36" PACIFIC CORRUGATED - PLAIN TYPE S PLAIN ENDS	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	05/08/08	3625	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY NWT PIPE - STORM CORRUGATED HDPE NWT = NON WATER-TIGHT	HANCOR SURELOK F-477	HANCOR, 888/367-7473 KELLY KOKESH 425/457-1187	11/09/04	1890	A	DIAMETERS: 12" TO 60".
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	12" OREGON PLASTIC - HD B & S TYPE S BELL & SPIGOT	OREGON PLASTIC TUBING 503/651-3151 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3505	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	12" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	08/14/08	3505	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	15" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	03/12/09	3716	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.

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02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	18" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3507	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	24" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3509	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	30" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3511	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	36" PACIFIC CORRUGATED - B & S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	05/08/08	3624	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	42" PACIFIC CORRUGATED HD B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	11/12/09	3955	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	48" PACIFIC CORRUGATED HD B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	11/12/09	3957	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	ADS N-12 WTIB WAS ADS PRO-LINK ULTRA WT IB	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDANIER 360/798-3731	04/09/09	2482	A	DOUBLE WALL, CORRUGATIONS. 12" TO 60" DIAMETERS. HAS REINFORCED BELL.
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	EAGLE CORR PE (DUAL WALL) 12" - 60"	JM EAGLE 310/693-8200 EXT 7958	06/10/10	4136	A	APPROVED FOR WATER-TIGHT APPLICATIONS. 12" TO 60"
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	HANCOR BLUESEAL WAS SURE-LOK WT	HANCOR, 888/367-7473 KELLY KOKESH 425/457-1187	10/14/10	1891	A	LOOK FOR BLUE WRAP ON SEAL FOR WATERTIGHT VERSION. DIAMETERS: 4" TO 60".

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02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	PRINSCO GOLDFLO WT (12"-48") INTEGRAL BELL & SPIGOT	PRINSCO INC 815/635-3131 877/485-3316	01/10/08	3599	A	CORRUGATED HDPE
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	PRINSCO GOLDFLO WT (60") INTEGRAL BELL & SPIGOT	PRINSCO INC 815/635-3131 877/485-3316	04/14/11	3599	A	CORRUGATED HDPE
02415.10	POLY WT PIPE - CULVERT CORRUGATED HDPE WT = WATER-TIGHT	WEHOLITE (60") WELDED JOINTS	UPOVOR INFRA LTD 800/688-1892	01/10/08	2392	A	EXTRUSION WELDED JOINT BY MFG APPROVED TECHS. WAS KWH PIPE (2014)
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	12" OREGON PLASTIC - HD B & S TYPE S BELL & SPIGOT	OREGON PLASTIC TUBING 503/651-3151 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3505	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	12" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	08/14/08	3505	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	15" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	03/12/09	3716	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	18" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3507	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	24" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3509	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	30" PACIFIC CORRUGATED HD-B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	09/13/07	3511	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. SOMETIMES CALLED STORM-TITE.

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02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	36" PACIFIC CORRUGATED - B & S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	05/08/08	3624	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	42" PACIFIC CORRUGATED HD B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	11/12/09	3955	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	48" PACIFIC CORRUGATED HD B&S TYPE S BELL & SPIGOT	PACIFIC CORRUGATED PLASTIC PIPE 503/263-3330 PACIFIC CORRUGATED PIPE CO. 541/461-0990	11/12/09	3957	A	DOUBLE WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	ADS N-12 WTIB WAS ADS PRO-LINK ULTRA WT IB	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDANIER 360/798-3731	04/09/09	2482	A	DOUBLE WALL, CORRUGATIONS. 12" TO 60" DIAMETERS. HAS REINFORCED BELL.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	EAGLE CORR PE (DUAL WALL) 12" - 60"	JM EAGLE 310/693-8200 EXT 7958	06/10/10	4136	A	APPROVED FOR WATER-TIGHT APPLICATIONS. 12" TO 60"
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	HANCOR BLUESEAL WAS SURE-LOK WT	HANCOR, 888/367-7473 KELLY KOKESH 425/457-1187	10/14/10	1891	A	LOOK FOR BLUE WRAP ON SEAL FOR WATERTIGHT VERSION. DIAMETERS: 4" TO 60".
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	HANCOR SURELOK WT	HANCOR, 888/367-7473 KELLY KOKESH 425/457-1187	11/09/04	1891	A	DIAMETERS: 4" TO 10". BLUE WRAP FOR "WT" VERSION.
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	PRINSCO GOLDFLO WT (12"-48") INTEGRAL BELL & SPIGOT	PRINSCO INC 815/635-3131 877/485-3316	01/10/08	3599	A	CORRUGATED HDPE
02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	PRINSCO GOLDFLO WT (60") INTEGRAL BELL & SPIGOT	PRINSCO INC 815/635-3131 877/485-3316	04/14/11	3599	A	CORRUGATED HDPE

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02415.10	POLY WT PIPE - STORM CORRUGATED HDPE WT = WATER-TIGHT	WEHOLITE (60") WELDED JOINTS	UPOVOR INFRA LTD 800/688-1892	01/10/08	2392	A	EXTRUSION WELDED JOINT BY MFG APPROVED TECHS. WAS KWH PIPE (2014)
02415.20	POLY WT PIPE - CULVERT SOLID-WALL HDPE WT = WATER-TIGHT	ISCO SNAP TITE 10" - 63"	ISCO INDUSTRIES 800/345-4726	12/24/12	3695	A	
02415.20	POLY WT PIPE - STORM SOLID-WALL HDPE WT = WATER-TIGHT	ISCO SNAP TITE 10" - 63"	ISCO INDUSTRIES 800/345-4726	12/24/12	3695	A	
02415.30	POLY WT PIPE - CULVERT STEEL REINFORCED HDPE WT = WATER-TIGHT	DUROMAXX WITH HP JOINTS 30" - 72"	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	08/12/10	3993	A	
02415.30	POLY WT PIPE - STORM STEEL REINFORCED HDPE WT = WATER-TIGHT	DUROMAXX WITH HP JOINTS 30" - 72"	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	08/12/10	3993	A	
02415.40	POLYPROPYLENE, CORRUGATED CULVERT	ADS HP STORM 36"-60" (DUAL WALL)	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDINIER 360/798-3731	12/24/12	4559	A	CHECK SPECIFICATIONS TO SEE IF ALLOWED BY PIPE INSIDE DIAMETER DON'T HANDLE IN TEMPS BELOW 0 DEGREES F.
02415.40	POLYPROPYLENE, CORRUGATED CULVERT	ADS SANITITE HP TW 30"-60" (TRIPLE WALL)	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDINIER 360-798-3731 800-733-8523	04/14/11	4558	A	DON'T HANDLE IN TEMPS BELOW 0 DEGREES F.
02415.40	POLYPROPYLENE, CORRUGATED SANITARY	ADS SANITITE HP DW (DUAL WALL) 12" - 30" (DUAL WALL)	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDINIER 360-798-3731 800-733-8523	04/14/11	4167	A	DON'T HANDLE IN TEMPS BELOW 0 DEGREES F.
02415.40	POLYPROPYLENE, CORRUGATED SANITARY	ADS SANITITE HP TW 30"-60" (TRIPLE WALL)	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDINIER 360-798-3731 800-733-8523	04/14/11	4168	A	DON'T HANDLE IN TEMPS BELOW 0 DEGREES F.

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02415.40	POLYPROPYLENE, CORRUGATED STORM	ADS HP STORM 12" - 30" (DUAL WALL)	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDINIER 360-798-3731 800-733-8523	04/14/11	4559	A	DON'T HANDLE IN TEMPS BELOW 0 DEGREES F.
02415.40	POLYPROPYLENE, CORRUGATED STORM	ADS HP STORM 36"-60" (DUAL WALL)	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDANIER 360/798-3731	12/24/12	4559	A	CHECK SPECIFICATIONS TO SEE IF ALLOWED BY PIPE INSIDE DIAMETER DON'T HANDLE IN TEMPS BELOW 0 DEGREES F.
02415.40	POLYPROPYLENE, CORRUGATED STORM	ADS SANITITE HP TW 30" -60" (TRIPLE WALL)	ADVANCED DRAINAGE SYSTEMS, INC LEROY LUCERO 971/235-1569 SCOTT GORDINIER 360-798-3731 800-733-8523	04/14/11	4558	A	DON'T HANDLE IN TEMPS BELOW 0 DEGREES F. NOW 4558
02415.50	PVC DRAIN PIPE - PERF PERFORATED	A-2000	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	05/10/07	488	A	
02415.50	PVC DRAIN PIPE - PERF PERFORATED	IPEX PVC DRAIN PIPE 3" AND 6"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	3433	A	
02415.50	PVC DRAIN PIPE - SOLID SOLID	A-2000	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	05/01/07	488	A	
02415.50	PVC DRAIN PIPE - SOLID SOLID	IPEX PVC DRAIN PIPE 3" AND 6"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	3433	A	
02415.50	PVC PIPE - IRRIGATION	A-2000	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	05/10/07	488	A	
02415.50	PVC PIPE - IRRIGATION	IPEX BLUE BRUTE C900 4" TO 12"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	2184	A	

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02415.50	PVC PIPE - SANITARY	A-2000	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	05/10/07	488	A	36"-120" FILL, NON-INTERSTATE 12-18" DIA. REVIEW W/LOCAL
02415.50	PVC PIPE - SANITARY	IPEX PVC UL TRA RIB PIPE 8" TO 24"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	1508	A	
02415.50	PVC PIPE - SANITARY	IPEX RING-TITE GASKETED 4" TO 42"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	2186	A	
02415.50	PVC WT PIPE - CULVERT WT = WATER-TIGHT	A-2000	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	05/10/07	488	A	
02415.50	PVC WT PIPE - CULVERT WT = WATER-TIGHT	IPEX PVC UL TRA RIB PIPE 8" TO 24"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	1508	A	
02415.50	PVC WT PIPE - STORM WT = WATER-TIGHT	A-2000	CONTECH CONSTRUCTION PRODUCTS 800/522-0410	05/10/07	488	A	
02415.50	PVC WT PIPE - STORM WT = WATER-TIGHT	IPEX PVC UL TRA RIB PIPE 8" TO 24"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	1508	A	
02415.50	PVC WT PIPE - STORM WT = WATER-TIGHT	IPEX RING-TITE GASKETED 4" TO 42"	IPEX, INC. 800/663-5864 SCOTT HENRICH 925/389-4323	03/08/07	2186	A	
02420.20	POLYMERIC COATING FOR CORRUGATED STEEL AND SPIRAL RIB PIPE	TRENCHCOAT WAS DOW	VALFILM USA 989/859-9966 PACIFIC CORRUGATED PIPE LARRY WOOD 800/528-8815	03/14/02	2191	A	10 MILS POLYMERIC COATING REQUIRED ON BOTH SIDES OF PIPE TO GET 50 YEARS ADDITIONAL SERVICE LIFE. 12 GA & THINNER.

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02420.20	POLYMERIC COATING FOR CORRUGATED STEEL PIPE	TRISHIELD STEEL RIBBED POLYETHYLENE	PACIFIC CORRUGATED PIPE LARRY WOOD 800/528-8815	08/14/97	1647	A	POLYMERIC PRECOATED, POLYETHYLENE LINED GALV STEEL. APPROVED BY ODOT FOR 50 YEARS ADDITIONAL SERVICE LIFE.
02440.10	EXPANSION JOINT SYSTEM, PREFORMED	FIBERFLEX EXPANSION JOINT/FORMFLEX	STEICO SE 410/725-9334	04/11/14	4760	A	NON STRUCTURAL APPLICATIONS
02440.10	PREFORMED JOINT FILLER FOR CONCRETE	HOMEX 300	HOMASOTE COMPANY 800/257-9491	04/21/89	428	A	PREFORMED WOOD FIBER STRIP FOR CONCRETE AND MASONRY JOINTS.
02440.10	PREFORMED JOINT FILLER FOR CONCRETE	NOMAFLEX	NOMACO 252/969-2970 ATLAS SUPPLY 800/806-7952	12/14/15	4935	A	POLYPROPYLENE CLOSED CELL
02440.10	PREFORMED JOINT FILLER FOR CONCRETE	REFLEX RUBBER EXPANSION JOINT	JD RUSSELL CO. 520/742-6194 MASON SUPPLY 800/537-3407	12/14/00	2293	A	PREFORMED EXPANSION JOINT FILLER MATERIAL. LOW TO NO MOVEMENT APPLICATIONS.
02440.10	PREFORMED JOINT FILLER FOR CONCRETE	SEALTIGHT FIBRE EXPANSION JOINT	W.R. MEADOWS 800/342-5976 CST-CONCRETE SPEC 541/567-8810 MASON SUPPLY 800/537-3407 WESTSIDE CONCRETE 503/591-0203	01/09/03	2412	A	CELLULAR FIBERS BONDED TOGETHER & SATURATED W/ASPHALT
02440.11	POURED JOINT SEALANT 2 PART SILICONE	DOWSIL 902 RCS (WAS DOW 902 RCS)	DOW CORNING 866/768-8768 JASON SIKA 303/960-1780 ATLAS SUPPLY 800/806-7952	06/17/16	754	A	
02440.11	POURED JOINT SEALANT 2 PART SILICONE	SIKA SIL728 RCS WAS BONDAFLEX SIL728 RCS	SIKA CORPORATION 800/933-7452 MASON SUPPLY 800/537-3407 ATLAS SUPPLY 800/806-7952	07/08/10	3163	A	SELF LEVELING. DESIGN AND PROPER INSTALLATION IMPORTANT!
02440.11	POURED JOINT SEALANT 2 PART SILICONE	WABO 2-PART SELF-LEVEL SILICONE NOW: WABOSILICONE SEAL (7-02)	WATSON BOWMAN ACME 800/677-4922	10/14/04	1771	A	CAUTION SHOULD BE USED WHEN USING. DO NOT TOUCH WITH BARE HANDS. 4 HOUR CURE TIME. WILL NOT BOND TO ASPHALT.

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02440.14	BACKER ROD	CERA-ROD	W.R. MEADOWS 800/342-5976 CST-CONCRETE SPEC 541/567-8810 MASON'S SUPPLY 800/537-3407 WESTSIDE CONCRETE 503/591-0203	05/01/88	74	A	ASTM D5249 TYPE 1/3
02440.14	BACKER ROD	HBR	CONSTRUCTION FOAM PRODUCTS LISA JARVIS 919/380-6640 (CFM A DIV OF NOMACO)	07/14/11	820	A	ASTM D5249 TYPE 3
02440.14	BACKER ROD	HBR-XL	CONSTRUCTION FOAM PRODUCTS LISA JARVIS 919/380-6640 (CFM A DIV OF NOMACO)	07/14/11	366	A	ASTM D5249 TYPE 1/3
02440.14	BACKER ROD	HOT-ROD XL	INDUSTRIAL THERMO POLYMERS LTD 800/387-3847 (CANADA) WHITE CAP 503/287-4151 VEN: ATLAS SUPPLY 800/806-7952	10/04/90	367	A	ASTM D5249 TYPE 1/3
02440.14	BACKER ROD	ITP BACKER ROD	INDUSTRIAL THERMO POLYMERS LTD 800/387-3847 (CANADA) WHITE CAP 503/287-4151 VEN: ATLAS SUPPLY 800/806-7952	03/14/91	665	A	ASTM D5249 TYPE 3
02440.30	HOT APPLIED JOINT SEALANT	BERAM 195	MCASPHALT INDUSTRIES 800/268-4238 PHOENIX ASPHALT 503/289-6696	11/08/07	3538	A	
02440.30	HOT APPLIED JOINT SEALANT	CRAFCO ROADSAVER 201 PART #34201	CRAFCO INC. 800/528-8242 GREG SHARP 971/645-1826	12/09/04	476	A	
02440.30	HOT APPLIED JOINT SEALANT	CRAFCO ROADSAVER 221 PART #34221	CRAFCO INC. 800/528-8242 GREG SHARP 971/645-1826	12/09/04	2099	A	
02440.30	HOT APPLIED JOINT SEALANT	DEERY 102 (PART# 80102)	CRAFCO 800/528-8242 WALLY SMITH 970/260-2596 PMSI 503/284-4330	04/14/11	3067	A	ASPHALTIC

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02440.30	HOT APPLIED JOINT SEALANT	DEERY 102GL (PART# 80102GL)	CRAFCO 800/528-8242 WALLY SMITH 970/260-2596 PMSI 503/284-4330	04/14/11	3330	A	ASPHALTIC
02440.30	HOT APPLIED JOINT SEALANT	DURA-FILL 3405	P&T PRODUCTS, INC. 419/621-1966	09/29/17	5077	A	
02440.30	HOT APPLIED JOINT SEALANT	ELASTOFLEX 500	MAXWELL PRODUCTS 801/972-2090	10/14/04	2823	A	ASPHALTIC
02440.30	HOT APPLIED JOINT SEALANT	ELASTOFLEX 61	MAXWELL PRODUCTS 801/972-2090	10/14/04	1010	A	ASPHALTIC
02440.30	HOT APPLIED JOINT SEALANT	ELASTOFLEX 62	MAXWELL PRODUCTS 801/972-2090	10/14/04	1011	A	ASPHALTIC
02440.30	HOT APPLIED JOINT SEALANT	NUVO 3405	MAXWELL PRODUCTS 801/972-2090	07/09/09	3870	A	
02440.30	HOT APPLIED JOINT SEALANT	ROADSEAL 10312	ROADSEAL CANADA 604/451-0721 778/881-6984	01/14/10	4084	A	
02440.30	HOT APPLIED JOINT SEALANT	RP 3405 (WAS #3405 REGULAR - OR)	CRAFCO, INC 602/276-0406	08/14/08	3672	A	
02440.30	HOT APPLIED JOINT SEALANT	SA 102	MAXWELL PRODUCTS 801/972-2090 SPECIAL ASPHALT PRODUCTS GARY COOK 503/295-6490	04/24/13	4609	A	ASPHALTIC

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02440.30	HOT APPLIED JOINT SEALANT HOT POURED ASPHALTIC	QPR NXGEN HOT APPLIED CRACK SEALANT	THE QUIKRETE COMPANIES DBA QPR 423/637-2499 423/553-6877	01/30/20	5232	A	POLYMER MODIFIER ASPHALT CEMENT
02440.40	RUBBER GASKETS BUTYL	BUTYL-NEK PREFORMED PLASTIC JOINT SEALANT	HENRY SEALANTS 800/231-4549	03/10/05	2789	A	PIPES, CULVERTS, OR MANHOLES.
02440.40	RUBBER GASKETS BUTYL	RAM-NEK FLEXIBLE PLASTIC GASKET	HENRY SEALANTS 800/231-4549	03/10/05	2790	A	PIPES, CULVERTS, OR MANHOLES.
02440.40	RUBBER GASKETS MANHOLES	BEST SEAL C-56	BEST FITT GASKET CO. TARI KNOTT 253/863-9521	05/09/02	2457	A	MFG PROVIDED EVIDENCE THAT THIS PRODUCT MEETS AASHTO M198
02450.30	MANHOLE STEPS	AMERICAN MANHOLE STEP ML-10	AMERICAN STEP COMPANY 770/467-9844	01/09/97	1610	A	CO-POLYMER POLYPROPYLENE. USE WHERE 10" STEPS ARE ALLOWED 10" BETWEEN BARS. EXTENDS OUT 5.7".
02450.30	MANHOLE STEPS	AMERICAN MANHOLE STEP ML-13	AMERICAN STEP COMPANY 770/467-9844	01/09/97	1608	A	CO-POLYMER POLYPROPYLENE. INTERIOR BARS ARE EPOXY COATED 13" BETWEEN BARS. EXTENDS OUT 6".
02450.30	MANHOLE STEPS	AMERICAN MANHOLE STEP SML-13	AMERICAN STEP COMPANY 770/467-9844	01/09/97	1609	A	CO-POLYMER POLYPROPYLENE. INTERIOR BARS ARE EPOXY COATED 13" BETWEEN BARS. EXTENDS OUT 5.1".
02450.30	MANHOLE STEPS	AMERICAN STEP # ML-10 (STD)	AMERICAN STEP COMPANY 800/988-7837	04/14/05	1870	A	
02450.30	MANHOLE STEPS	AMERICAN STEP # ML-13 (STD)	AMERICAN STEP COMPANY 800/988-7837	04/14/05	1871	A	

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02450.30	MANHOLE STEPS	AMERICAN STEP # SML-13 (STD)	AMERICAN STEP COMPANY 800/988-7837	04/14/05	1872	A	
02450.30	MANHOLE STEPS	BOWCO 93813R	BOWCO INDUSTRIES 503/266-9405	09/13/07	3518	A	
02450.30	MANHOLE STEPS	LANE POLYPROPYLENE #P - 14850	LANE INTERNATIONAL CORP 503/692-9860 800/666-0076	07/23/12	4508	A	Replaces Model #13938
02450.30	MANHOLE STEPS	LANE POLYPROPYLENE #P - 14938	LANE INTERNATIONAL CORP 503/692-9860 800/666-0076	07/23/12	4509	A	Replaces Model #13938
02450.30	MANHOLE STEPS	MA MANHOLE STEPS PS2-PF	MA INDUSTRIES 800/241-8250 PIPE INC 503/285-8391	04/11/02	72	A	
02510.10	REBAR MANUFACTURER	ARCELORMITTAL-VINTON TX	ARCELORMITTAL-VINTON TX 915/231-4553	03/11/10	1841	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. WAS BORDER STEEL.
02510.10	REBAR MANUFACTURER	CASCADE STEEL ROLLING MILLS	CASCADE STEEL ROLLING MILLS 800/283-2776 OR 503/222-6824	01/25/94	1111	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
02510.10	REBAR MANUFACTURER	CMC STEEL CALIFORNIA	COMMERCIAL METALS COMPANY 909/646-7886	08/05/98	1842	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. WAS GERDAU AMERISTEEL - RANCHO CUCAMONG
02510.10	REBAR MANUFACTURER	CMC STEEL-DURANT OKLAHOMA	COMMERCIAL METALS-CMC STEEL OK 580/634-5084	06/12/18	5138	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. #4#11 STRAIGHT & #3#6 COILED

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02510.10	REBAR MANUFACTURER	EVRAZ INC. NA-PUEBLO COLORADO	EVRAZ 719/561-6009	07/08/10	1621	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. WAS CF&I, ROCKY MOUNTAIN NOW EVRAS.
02510.10	REBAR MANUFACTURER	GERDAU AMERISTEEL - ST. PAUL	GERDAU AMERISTEEL 651/731-5644	01/27/97	1623	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
02510.10	REBAR MANUFACTURER	GERDAU AMERISTEEL - WILTON	GERDAU AMERISTEEL 537/732-4552	09/11/08	1622	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
02510.10	REBAR MANUFACTURER	NUCOR - SEATTLE	NUCOR CORPORATION WINKY LAI 206/933-2288 800/428-9005	02/12/04	2935	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
02510.10	REBAR MANUFACTURER	NUCOR - UTAH	NUCOR CORPORATION 800/677-1012 OR 800/428-9005 801/458-3691	01/25/94	1112	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
02510.10	REBAR MANUFACTURER	NUCOR-BOURBONNAIS	NUCOR STEEL KANKAKEE 815/939-5532	03/16/16	4943	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
02510.10	REBAR MANUFACTURER	NUCOR-KINGMAN AZ	NUCOR STEEL KINGMAN AZ 928/718/7035	03/09/11	4356	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. COILED BAR
02510.10	REBAR MANUFACTURER	OPTIMUS STEEL-BEAUMONT TEXAS MILL COILED #3 - #5	OPTIMUS STEEL LLC 409/769-1035	01/06/15	4838	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION DRAWING.
02510.10	REBAR MANUFACTURER	CMC STEEL - MESA AZ	CMC STEEL - MESA AZ 480/396-7127	03/11/10	4118	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.

SIZE #4 - #11

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02510.10	REBAR MANUFACTURER A615 GRADE 60, 80, 100 A706 GRADE 60, 80 SIZE #3-#18	CMC STEEL SOUTH CAROLINA	CMC STEEL SOUTH CAROLINA 803/465-7523	06/12/20	5263	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION DRAWING.
02510.10	REBAR MANUFACTURER A615 GRADE 60 A706 GRADE 60 SIZE #3-#11	CMC STEEL TEXAS SEGUIN	CMA STEEL TEXAS 830/372-8476	12/02/20	5313	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION DRAWING.
02510.10	REBAR MANUFACTURER A615 GRADE 60 SIZE #4-#11	STEEL DYNAMICS ROANOKE BAR DIVISION	STEEL DYNAMICS ROANOKE BAR DIVISION 540/510-3185	06/19/20	5261	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
02510.10	REBAR MANUFACTURER A706 GRADE 60 SIZE #3-#5	CMC STEEL FLORIDA	CMC STEEL FLORIDA 904/266-1547	06/12/20	5262	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION DRAWING.
02510.10	REBAR MANUFACTURER ASTM A1035CS/AASHTO M334 SIZE #4 - #11	MMFX TECHNOLOGIES-CMC CHROMIX 9100 PRODUCED @ CASCADE STEEL ROLLING MILLS	COMMERCIAL METALS COMPANY 480/396-7124	04/28/20	5249	Q	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. TEST 3 BARS, MOST COMMON SIZE ON PROJECT
02510.10	REBAR MANUFACTURER ASTM A1035CS/AASHTO M334 SIZE #3 - #11	MMFX TECHNOLOGIES-CMC CHROMIX 9100 PRODUCED @ CASCADE STEEL ROLLING MILLS	COMMERCIAL METALS COMPANY 480/396-7124	03/19/18	3517	Q	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. TEST 3 BARS, MOST COMMON SIZE ON PROJECT
02510.20	SPLICE, BUTT, MECHANICAL TYPE 1	BARGRIP STD. TYPE 1	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	10/04/90	544	Q	#3 - #14 BLACK BAR ONLY NOT FOR COLUMN BARS FOR BRIDGE RAISING APPLICATIONS. (SWAGED)
02510.20	SPLICE, BUTT, MECHANICAL TYPE 1	BARSPlice - ZAP LOCK SCREWLOK SL	BARSPlice PRODUCTS INC 937/275-8700	02/25/20	5250	Q	#4-#11 BLACK BAR & COATED SHEAR BOLT TYPE
02510.20	SPLICE, BUTT, MECHANICAL TYPE 1	BARSPlicer XP	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	01/14/10	3946	Q	#4 - #11 COATED BAR THREADED WITH FLANGE

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02510.20	SPLICE, BUTT, MECHANICAL TYPE 1	LENTON CONNECTS S2 PLAIN SERIES	ERICO INTERNATIONAL CORPORATION 440/248-0100	12/03/20	5312	Q	#4-#11 BLACK BAR SHEAR BOLT TYPE
02510.20	SPLICE, BUTT, MECHANICAL TYPE 1	LENTON FORM SAVER SA	ERICO PRODUCTS INC. 440-248-0100	09/14/06	3353	Q	#4 - #8 THREADED WITH FLANGE
02510.20	SPLICE, BUTT, MECHANICAL TYPE 1	ZAP SCREWLOK - EPOXY	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	05/08/97	1628	Q	#3 - #14 COATED BAR
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	BARGRIP XL	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	01/14/10	3945	Q	#4 - #14 BLACK & COATED BAR NOT FOR COLUMN BARS FOR BRIDGE RAISING APPLICATIONS. (SWAGED)
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	BAR-LOCK L-SERIES	BAR-LOCK 800/755-4888 PART OF DAYTON SUPERIOR MATT CROSS 360/961-6888	08/12/93	1031	Q	#4 - # 14 BLACK BAR ONLY SHEAR BOLT TYPE
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	BARSPlicer XP	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	01/14/10	3946	Q	#4 - #11 BLACK BAR ONLY THREADED WITH FLANGE
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	BARTEC	DEXTRA AMERICA 877/327-0800	10/09/08	3595	Q	BLACK BAR ONLY COLD FORGED/THREADED
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	CADWELD REBAR SPLICE	ERICO PRODUCTS INC. 440/248-0100	05/01/88	1355	Q	#5, #8, #14 BLACK BAR ONLY METAL FILLED TYPE
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	GRIPTEC	DEXTRA AMERICA 877/327-0800	10/09/08	3594	Q	BLACK BAR ONLY SWAGED/THREADED

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02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	LENTON LOCK B1	ERICO PRODUCTS INC. 440/248-0100	06/11/09	3804	Q	#4 - #11 BLACK BAR ONLY SHEAR BOLT TYPE
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	LENTON POSITION P9	ERICO PRODUCTS INC. 440/248-0100	06/11/09	3806	Q	#4 - #18 BLACK BAR ONLY THREADED
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	LENTON STANDARD COUPLER A2	ERICO PRODUCTS INC. 440/248-0100	08/01/89	770	Q	#3 - #18 BLACK BAR ONLY. THREADED
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	TAPER THREADED GRIP-TWIST POSITION	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	26/13/	4597	Q	#5 - #18 BLACK BAR ONLY THREADED/SWAGED
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	TAPER THREADED GRIP TWIST	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	04/08/10	2784	Q	#4 - #18 BLACK BAR ONLY THREADED/SWAGED
02510.20	SPLICE, BUTT, MECHANICAL TYPE 2	ZAP SCREWLOK - TYPE 2	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	05/08/97	1628	Q	#3 - #14 BLACK BAR ONLY
02510.20	SPLICE, BUTT, MECHANICAL REBAR TRANSITION TYPE 2	LENTON A2 TRANSITION SPLICE	ERICO PRODUCTS INC. 440-248-0100	10/14/10	4219	Q	#3 - #14 BLACK BAR ONLY.
02510.20	SPLICE, BUTT, MECHANICAL REBAR TRANSITION TYPE 2	ZAP SCREWLOK TRANSITION	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	10/08/09	3925	Q	#4 - #14 BLACK BAR ONLY
02510.20	SPLICE, LAP, MECHANICAL TYPE 1	QUICK WEDGE	ERICO PRODUCTS INC. 440/248-0100	09/28/05	610	Q	#3 - #6 BLACK BAR ONLY, (2 SPLICES REQUIRED FOR EACH LOCATION, ALL INSTALLATIONS) SLIP TESTING NOT REQUIRED

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02510.20	SPLICE, LAP, MECHANICAL TYPE 1	ZAP DOUBLE BARREL SCREWLOK	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	01/14/10	3358	Q	#4 - #7 BLACK & COATED BAR SLIP TESTING NOT REQUIRED
02510.20	SPLICE, LAP, MECHANICAL REBAR TRANSITION TYPE 1	ZAP DOUBLE BARREL TRANSITION	BARSPlice PRODUCTS INC 4900 WEBSTER ST. DAYTON OH 45414 JOHN STEVENSON 937/275-8700	10/08/09	3926	Q	#3 - #8 BLACK BAR ONLY SLIP TESTING NOT REQUIRED
02510.25	HEADED BAR REINFORCEMENT	BARSPlice-BUTTONHEAD BNH 5AB	BARSPlice PRODUCTS INC. 4900 WEBSTER ST. DAYTON OH 45414 JONH STEVENSON 937/275-8700	04/02/18	4988	Q	#4 - #14 UP TO GRADE 80KSI BAR SWAGED
02510.25	HEADED BAR REINFORCEMENT	BARSPlice-BUTTONHEAD BNH 10AB	BARSPlice PRODUCTS INC. 4900 WEBSTER ST. DAYTON OH 45414 JONH STEVENSON 937/275-8700	04/02/18	5115	Q	#4 - #11 UP TO GRADE 80KSI BAR SWAGED
02510.25	HEADED BAR REINFORCEMENT	LENTON TERMINATOR D6 SERIES	ERICO PRODUCTS INC. 440-248-0100	01/21/14	3805	Q	#4 - #18 THREADED
02530.71	GALVANIZING, REPAIR HOT-DIP	7000 SYSTEM COLD GALVANIZING COMPOUND	RUST-OLEUM CORPORATION 877/385-8155 FASTENAL 920/737-4771	08/29/16	4985	A	BRUSH OR SPRAY APPLICATION 3 MIL DRY FILM THICKNESS MINIMUM
02530.71	GALVANIZING, REPAIR HOT-DIP	DEVCON Z	ITW DEVCON 978/777-1100	01/21/14	4743	A	BRUSH OR SPRAY APPLICATION 3 MIL DRY FILM THICKNESS MINIMUM
02530.71	GALVANIZING, REPAIR HOT-DIP	ROVAL COLD GALVANIZING COMPOUND HIGH-BUILD TYPE	ROVAL USA, INC 971/237-0958	01/08/15	4862	A	BRUSH OR SPRAY APPLICATION 3 MIL DRY FILM THICKNESS MINIMUM
02530.71	GALVANIZING, REPAIR HOT-DIP	Z.R.C	ZRC WORLDWIDE 800/831-3275	01/21/14	4742	A	BRUSH OR SPRAY APPLICATION 3 MIL DRY FILM THICKNESS MINIMUM

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02530.71	GALVANIZING, REPAIR HOT-DIP	ZINGA	CARWELL 800/856-6798	01/21/14	4744	A	BRUSH OR SPRAY APPLICATION 3 MIL DRY FILM THICKNESS MINIMUM
02560.70	LUBRICANTS BLACK FASTENERS	MARVEL MYSTERY OIL	TURTLE WAX 800/887-8539	01/31/13	4598	A	BLACK FASTENERS ONLY NOT FOR COATED OR GALVANIZED FASTENERS
02560.70	LUBRICANTS BLACK FASTENERS	ZEP 45	ZEP, INC. 877/428-9937 OR 404/352-1680	01/31/13	4599	A	BLACK FASTENERS ONLY NOT FOR COATED OR GALVANIZED FASTENERS
02560.70	LUBRICANTS FOR GALVANIZED FASTENERS	MACUGUARD TORQUE N TENSION MACDERMID	ABCO PRODUCTS OF SACRAMENTO 916/447-9931 OR 916/417-4142	06/10/10	3814	A	
02560.70	LUBRICANTS FOR GALVANIZED FASTENERS	SAFETY FILM 639	CASTROL INDUSTRIAL 877/641-1600 IDG 503/288-3252 TYRE OIL 541/687-0076	12/10/93	921	A	USE AS CORROSION RESIST LUBRI- CANT ON VARIOUS FASTENERS. ALSO, USE AS A RUST PROTECTOR.
02560.70	LUBRICANTS FOR GALVANIZED FASTENERS	STICK-WAX WAS 140 STICK-WAX	CASTROL INDUSTRIAL 877/641-1600 IDG 503/288-3252 TYRE OIL 541/687-0076	09/10/09	920	A	
02560.70	LUBRICANTS FOR STAINLESS FASTENERS	MOLYKOTE G-N	DOW CORNING 989/496-6000	08/23/13	4690	A	STAINLESS STEEL FASTENERS NOT FOR COATED OR GALVANIZED
02910.20	SIGN SHEETING - TYPE I ASTM D4956 ENCLOSED LENS	AVERY DENNISON T-1500	AVERY DENNISON 800/327-5917	06/12/08	2345	Q	T-1500 WHITE, T-1501 YELLOW T-1504 ORANGE, T-1505 BLUE T-1507 GREEN, T-1508 RED, T-1509 BROWN
02910.20	SIGN SHEETING - TYPE III ASTM D4956	NIKKALITE ULTRALITE GRADE II	NIPPON CARBIDE 800/821-4264 GEORGE TAMAYORI 562/777-1810	09/10/98	1704	Q	ENCAPSULATED LENS. N512 WHITE, N504 YELLOW, N505 RED, N506 BLUE, N507 ORANGE, N509 BROWN.

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02910.20	SIGN SHEETING - TYPE III ASTM D4956 PRISMATIC HIP	3-M SERIES 3930 (3930,3931,3934,3935,3937)	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	09/28/05	2949	Q	WHITE, YELLOW, ORANGE, BLUE, & GREEN, (NO FLUORESCENT ORANGE)
02910.20	SIGN SHEETING - TYPE IV ASTM D4956 PRISMATIC	94000 SERIES HIGH INTENSITY MICROPRISMATIC (H.I.M.)	NIPPON CARBIDE 800/821-4264 GEORGE TAMAYORI 562/777-1810	01/03/20	4684	Q	94802, WHITE, 94804 YELLOW, 94805 RED 94806 BLUE, 94807 ORANGE, 94808 GREEN
02910.20	SIGN SHEETING - TYPE IV ASTM D4956 PRISMATIC	AVERY DENNISON T-8500	AVERY DENNISON 800/327-5917	09/08/05	1525	Q	WHITE: T6500, YELLOW: T6501, ORANGE: T6504, RED: T6508, GREEN: T6507, BLUE: T6505, BROWN: T6509
02910.20	SIGN SHEETING - TYPE IV ASTM D4956 PRISMATIC	ORALITE HI PRISMATIC GRADE SRIES 5900	ORAFOL 860/676-7100	03/26/13	4549	Q	YELLOW, GREEN, RED, BLUE, BROWN
02910.20	SIGN SHEETING - TYPE IV ASTM D4956 PRISMATIC HIP	3-M SERIES 3930 (3930,3931,3934,3935,3937)	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	09/08/05	2949	Q	3930 WHITE, 3931 YELLOW, 3934 ORANGE, 3935 BLUE, & 3937 GREEN, NO FLORESCENT ORANGE.
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC	3-M SERIES 4000 (DG3) (4090,91,92,95,97,99,81,83)	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	05/13/10	3115	Q	OK FOR TYPE IX ONLY. COLORS: WHITE 4090, YELLOW 4091, RED 4092, BLUE 4095, GRN 4097, F-YELLOW 4081, F-YG 4083
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC	AVERY DENNISON T-9500	AVERY DENNISON 800/327-5917	02/11/10	3605	Q	T-9500 WHITE, T-9501 YELLOW, T-9505 BLUE, T-9507 GREEN T-9508 RED, T-9513 FL YEL/GRN, T-9511 FY.
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC	OMNICUBE T-11500 SERIES ASTM TYPE XI	AVERY DENNISON 240/925-6891	01/21/14	4502	Q	T-11500 WHITE, T-11501 YELLOW T-11507 GREEN, T-11508 RED T-11505 BLUE, T-11513 FL, YELLOW-GREEN T-11511 FL, YELLOW
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC	ORALITE 7900 WIDE ANGLE PRISMATIC	ORAFOL AMERICAS, INC 860/676-7100	12/27/18	5094	Q	WHITE, BLUE, GREEN, YELLOW FLOR, YELLOW GREEN, FLOR, YELLOW

*LIST 'A' = APPROVED. MAY BE USED WITHOUT SAMPLES, TESTING, OR QUALITY COMPLIANCE CERTIFICATIONS. MAY NEED A FIELD INSPECTION REPORT.
 **LIST 'Q' = QUALIFIED. USE WITH SAMPLING, TESTING, & OR QUALITY COMPLIANCE CERTIFICATIONS AS NEEDED. NEEDS A FIELD INSPECTIONS REPORT. CHECK SPECS AND NFTMAG.
 LIST PUBLISHED BY: ODOT MATERIALS LAB; 800 AIRPORT RD SE; SALEM, OR 97301-4798; (503) 986-3059. PLEASE REPORT ANY PROBLEMS USING THESE PRODUCTS.

**ODOT CONSTRUCTION / MATERIALS SECTION
 QUALIFIED PRODUCTS LIST
 APPROVED LIST - NO SAMPLES OR TESTS REQUIRED*
 QUALIFIED LIST - ADDITIONAL REQUIREMENTS**
 JANUARY 2021 (AMENDED MARCH 8, 2021)**

<u>STANDARD SPEC #</u>	<u>CATEGORY</u>	<u>PRODUCT NAME</u>	<u>LOCAL REPRESENTATIVE AND/OR MANUFACTURER</u>	<u>EFFECTIVE DATE</u>	<u>PRODUCT NUMBER</u>	<u>LIST</u>	<u>REMARKS</u>
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC FLUORSECENT ORANGE	OMNICUBE W-11514 FLUO ORANGE ASTM TYPE XI	AVERY DENNISON 240/925-6891	01/21/14	4501	Q	
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC - FLUORESCENT YELLOW	3-M SERIES 3981	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	12/12/96	2843	Q	
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC - FLUORESCENT YELLOW-GREEN	3-M SERIES 3983	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	12/12/96	1898	Q	
02910.20	SIGN SHEETING - TYPE IX ASTM D4956 PRISMATIC VIP	3-M SERIES 3990 (VIP GRADE) (3990,91,92,95,97)	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	11/09/95	1328	Q	FOR URBAN STREET LEVEL, WHITE 3990, YELLOW 3991, RED 3992, BLUE 3995, GREEN 3997
02910.60	ELECTRONIC CUTTABLE FILM	OL-2000 OVERLAY SERIES	AVERY DENNISON 240/925-6891	03/27/13	4285	A	
02910.60	ELECTRONIC CUTTABLE FILM ALTERNATIVE FOR SILK SCREENING	3-M SERIES 1170	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	09/12/96	1414	A	NEED FOR LEGENDS ON HIGH INTENSITY SHEETING.
02910.70	ANTI-GRAFFITI COATING FOR SIGNS	3-M SERIES 1150 OVERLAY FILM FOR EG AND HI	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	05/09/96	1413	A	FOR 3-M SHEETING ONLY. DESIGNED TO ALLOW EASY REMOVAL OF GRAFFITI.
02910.70	ANTI-GRAFFITI COATING FOR SIGNS	3-M SERIES 1160 OVERLAY FILM FOR EG, HI, DG3, HIP	3-M COMPANY TSSD 800/553-1380 SCOTT ELLWOOD 503/309-9160	01/10/02	2436	A	FOR 3-M SHEETING ONLY. DESIGNED TO ALLOW EASY REMOVAL OF GRAFFITI.
02910.70	ANTI-GRAFFITI COATING FOR SIGNS	AVERY OL-1000 CLEAR FOR AVERY SIGNS	AVERY DENNISON 800/327-5917	12/10/09	3949	A	FOR AVERY DENNISON SHEETING ONLY.

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ODOT CONSTRUCTION / MATERIALS SECTION
 QUALIFIED PRODUCTS LIST
 APPROVED LIST - NO SAMPLES OR TESTS REQUIRED*
 QUALIFIED LIST - ADDITIONAL REQUIREMENTS**
 JANUARY 2021 (AMENDED MARCH 8, 2021)

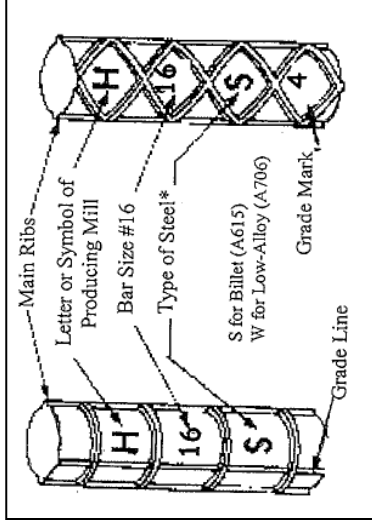
STANDARD SPEC #	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	PRODUCT NUMBER	LIST	REMARKS
02910.70	ANTI-GRAFFITI COATING FOR SIGNS	F-CAL PREMIUM PROTECTIVE FILM	NIPPON CARBIDE 800/821-4264 ROBERT PARRA 800/821-4264 JAMES JOHNSON 310/632-7500	07/10/03	1799	A	FOR NIPPON CARBIDE (NIKKOLITE) SHEETING ONLY.

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Appendix A—Approved Reinforcing Steel Producers

The ASTM specifications for billet-steel and low-alloy reinforcing bars (A615 and A706, respectively) require identification marks to be rolled into the surface of one side of the bar to denote the producer’s mill designation, bar size, type of steel and minimum yield designation. Grade 420 bars show these marks in the following order:

- 1st ---Producing Mill (usually a letter)
- 2nd --- Bar Size Number (# 4 through # 18)
- 3rd --- Type of Steel: **S** Billet (A 615)
W for Low Alloy (A 706)
- 4th ---Minimum Yield Designation



The minimum yield designation for Grade 420 bars is either one (1) single, longitudinal line (grade line) or the number 4 (grade mark).

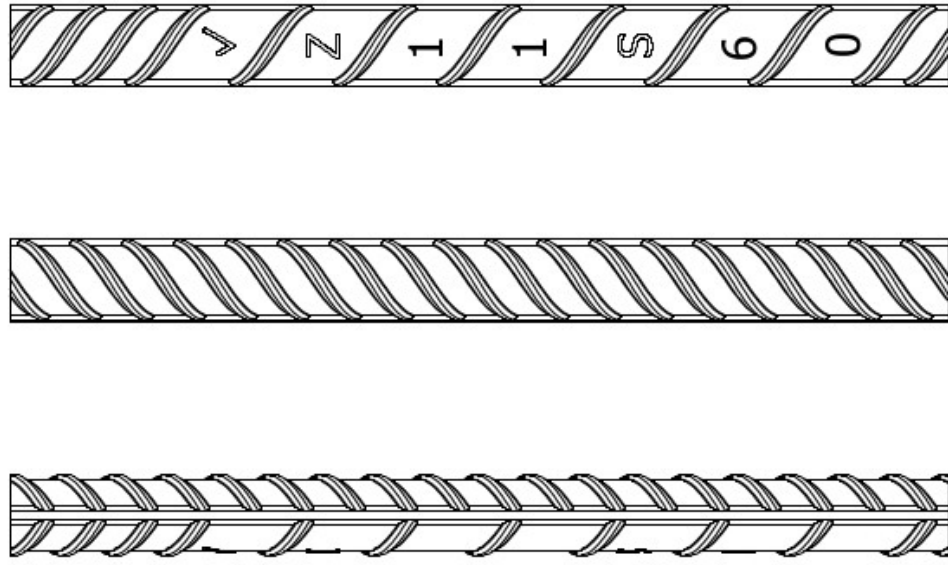
A grade line is smaller and is located between the two main ribs, which are on opposite sides of all bars made in the United States. A grade line must be continued through at least 5 deformation spaces, and it may be placed on the side of the bar opposite the bar marks. A grade mark is the fourth mark on the bar.






VARIATIONS: Bar identification marks may also be oriented to read horizontally (90° to those illustrated). Grade numbers may be placed within consecutive deformation spaces to read vertically or horizontally.

The Identification marks for the Approved Producers are shown in the following figures. Rebar grades shown on these pages are for reference only. Check the specs for the appropriate requirements.

#11 REBAR

CMC Steel Mesa Arizona ODOT #4118



A 615		A706	
Gr60	Gr 75	Gr 80	Gr 80
			
			

Bar sizes 4, 5, 6, 7, 8, 9, 10, 11, 14, 18.

Nucor Steel Seattle Washington ODOT # 2935

Gerdau
Rancho Cucamonga, CA

CSRI
Construction Steel Institute
MEMBER

S  R 6 S
Bars #4 through #18 only

W  R 10 W
Bars #4 through #18 only

S  R 18 S
Bars #4 through #18 only

S  R 1 8 S
Bars #4 through #18 only

W  R 10 W
Bars #4 through #18 only

Gerdau (cont.)
Rancho Cucamonga, CA


CSRI
Construction Steel Institute
MEMBER

SW  R 10 S W
Bars #4 through #18 only


CMC Steel California - Interim Period.

 S 6

 W 10

 S 18

 S 1 8







 W 10

 S W 10






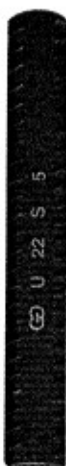
CMC Steel California ODOT #1842
Was Gerdau @ Rancho Cucamonga California

<p>Gerdau Rancho Cucamonga, CA</p> 	 <p>S 60 Bars #4 through #18 only</p>	 <p>W 60 Bars #4 through #18 only</p>	 <p>S 75 Bars #4 through #18 only</p>	 <p>S 80 Bars #4 through #18 only</p>	 <p>W 80 Bars #4 through #18 only</p>	<p>Gerdau (cont.) Rancho Cucamonga, CA</p> 	 <p>SW 60 Bars #4 through #18 only</p>
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CMC Steel California – Post Interim Period.

					
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CMC Steel California ODOT #1842
Was Gerdau @ Rancho Cucamonga California

Gerdau Ameristeel (revised markings) <small>(St. Paul, MN)</small>		CRSI
S	 Bars #13 through #57 only	60
W	 Bars #13 through #57 only	60
S	 Bars #13 through #57 only	75
S	 Bars #14J and #18J ("Jumbo") only	75
S	 Bars #19 through #57 only	60
S	 Bars #19 through #57 only	75

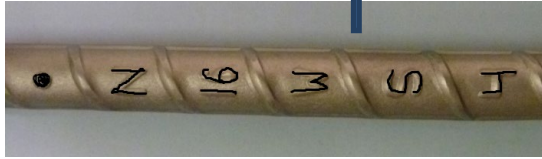
Gerdau St. Paul Minnesota ODOT # 1623

Cascade Steel Rolling Mills, Inc.
(McMinnville, OR)

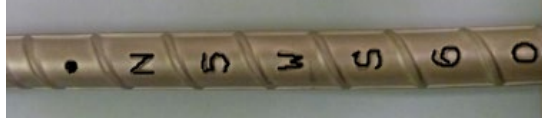


Cascade Steel Mc-Minnville Oregon
ODOT # 1111

S GR 60		Bars #3 through #6 only		Bars #14 and #18 only
W GR 60		Bars #3 through #6 only		Bars #3 through #11 only
W GR 60		Bars #14 and #18 only		Bars #14 and #18 only
SW GR 60		Bars #3 through #11 only (#3 through #6 coiled)		Bars #3 through #11 only
SW GR 60		Bars #14 and #18 only		Bars #14 and #18 only
S GR 75		Bars #3 through #11 only (#3 through #6 coiled)		Bars #3 through #6 coiled



Current SI Marking



New IN-LBS

NUCOR STEEL – KINGMAN, AZ
ODOT #4356

A706/A615 GRADE 60 REBARS MARKINGS
Rebar sizes: #3 thru #6

**EVRAZ INC, NA PUEBLO, COLORADO
ODOT #1621 (COILED REBAR #3-#6)**

January 8, 2014 | EVRAZ ROD/BAR MILL REBAR MARKINGS |

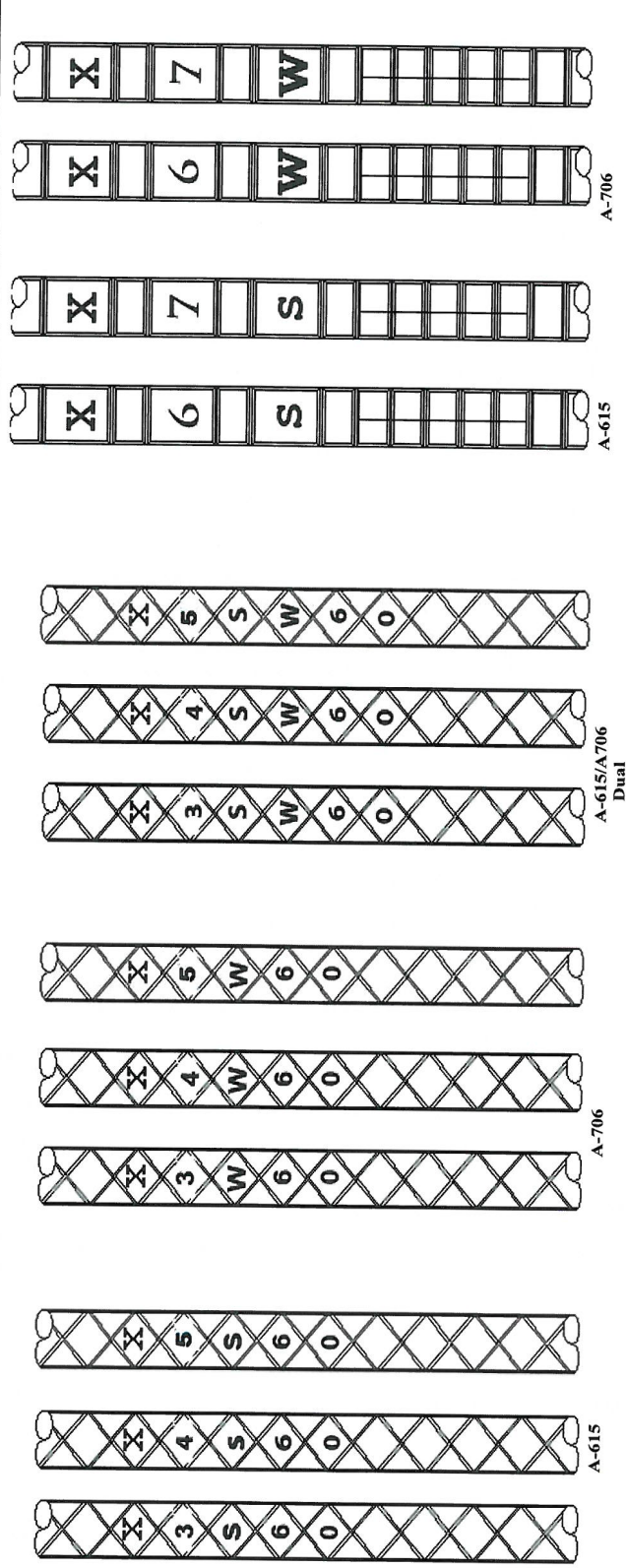


Table RB-700-8 Rev 2

**NUCOR-BAURBONNAIS (KANKAKEE)
BAR SIZE #3-#11
ODOT #4943**



NUCOR STEEL - KANKAKEE
BARS #3-#11 BAR A706 ONLY

CMC Steel Oklahoma
Durant, OK



S
60



Bars #3 through #18 only

W
60



Bars #3 through #18 only

S
75



Bars #3 through #18 only

S
80



Bars #3 through #18 only

W
80



Bars #3 through #18 only

S
100



Bars #3 through #18 only

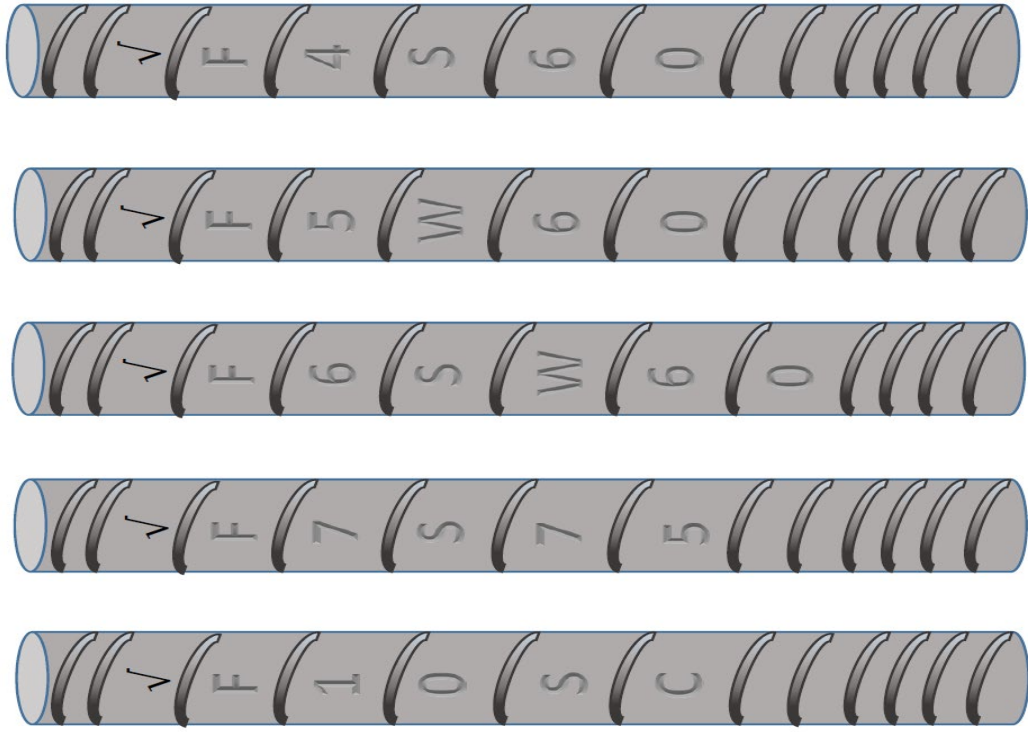
CMC STEEL-DURANT OKLAHOMA
#4-#11 STRAIGHT #3-#6 COILED
ODOT #5138

**STEEL DYNAMICS ROANOKE BAR
DIVISION
#4-#11 STRAIGHT
ODOT #5261**











**CMC STEEL FLORIDA
#3-#5 COILED
ODOT #5262**

**CMC STEEL TEXAS
A615 GRADE 60, #3-#11 STRAIGHT
A706 GRADE 60, #3-#11 STRAIGHT
ODOT #5313**



CMC STEEL FLORIDA
A615 GRADE 60, 80, 100 #3-#18 STRAIGHT
A706 GRADE 60, 80 #3-#18 STRAIGHT
ODOT #5263

<p>www.cmcsteel.com CMC Steel South Carolina Cayce, SC</p>	<p>Commercial Metals Company South Carolina CRSI M</p>
<p>S  Bars #3 through #11 only</p>	<p>S  Bars #3 through #11 only</p>
<p>S  Bars #13 through #18 only</p>	<p>S  Bars #13 through #18 only</p>
<p>W  Bars #3 through #11 only</p>	<p>W  Bars #3 through #11 only</p>
<p>W  Bars #13 through #18 only</p>	<p>W  Bars #13 through #18 only</p>

ASTM A1035 CS (AAHSTO M334)

ChromX 9100 CS
SIZE #3-#11
PRODUCED BY:
CASCADE STEEL ROLLING MILLS, INC.
ODOT #3517

ChromX 4100 CM
SIZE #4-#11
PRODUCED BY:
CASCADE STEEL ROLLING MILLS, INC.
ODOT #5249



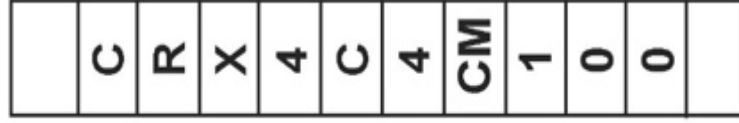
Bars #3 through #9 (#3 through #6 coiled)



Bars #10 and #11 only



Bars #14 and #18 only



Product Mark: C R X 4
 Point of Origin: C
 Size Designation: 4
 Type of Steel: CM
 Minimum Yield Designation: 1 0 0

ASTM A1035 Type CM
 Grade 100 (100 ksi)