

*CHAPTER 12B - QUALITY

The Contract documents specify the minimum requirements for the quality of Materials and Work to be furnished or performed under the Contract. The Project Manager (PM) must assure that the Materials incorporated and Work performed by the Contractor is in close conformance with Contract requirements.

If the PM has questions about or problems determining the quality requirements, contact the Region Assurance Specialist (RAS) or the Contract Administration Unit (CAU) for assistance.

The PM must be continually observant to verify that necessary inspection, sampling, testing, and measurements are performed and that inspection reports, test results, calculations and other conformance documents are prepared promptly and verified by a second person.

As specified in Subsection 00165.70, the PM must not allow the Contractor to incorporate Materials into the Project without acceptable conformance documents. This condition may be temporarily waived **only** if the Material must be installed for immediate traffic safety, but no payment will be made for the value of the Materials, or the costs of incorporating them, until acceptable conformance documentation is received and/or testing is performed.

For each Project, the PM must become familiar with the quality compliance requirements for all of the Materials that are to be incorporated. The PM must also assure that the Contractor is aware of quality documentation required to be submitted or sampling and testing that must be performed.

Consult the following sources to determine the quality requirements for a Project:

- The Project Special Provisions
- The Project Plans
- Standard Drawings
- Contract Change Orders
- The Standard Specifications
- The Supplemental Standard Specifications
- ODOT's Qualified Products List (QPL)
- The Nonfield-Tested Materials Acceptance Guide
- The Manual of Field Test Procedures, which includes:

* All marked text updated January 2017

- The Field Tested Materials Acceptance Guide
- The Field Tested Materials Small Quantity Guideline

There are two (2) types of Material quality documentation: nonfield-tested and field-tested. There is a [Test Summary form 734-1902-A or B \(or BQA\)](#) for each type of documentation. Some Pay Items may require the use of both Test Summary A and B forms to enter different Materials for that item. An example of this would be for a bid item for pipe, which would require quality documentation for the pipe Materials to be entered on Test Summary A (Nonfield-Tested Materials), and the pipe trench compaction and backfill documentation and testing information to be entered on Test Summary B (Field-Tested Materials).

The PM must assure that the Test Summary sheet(s) are completed for each Pay Item, before Work starts, to determine what type of documentation is needed prior to receipt, placement, and payment of Materials needed for the Project.

Record the quality documentation on the Test Summary sheets as the Work progresses to assure that the Material complies with quality requirements. The purpose of the Test Summary is to verify that the proper and adequate quality documentation has been furnished.

As stated in Subsection 00195.60, before the PM authorizes payment for Materials on Hand (MOH). Refer to [Chapter 12F – Materials on Hand](#), if requested by the Contractor, the Materials shall, among other things:

- Meet contract specification requirements.
- Have the required material conformance documents on file with the Engineer.

The PM must assure that **all** Project documentation is continuously and currently maintained throughout the life of the Project.

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(a) Nonfield-tested Material Quality Documentation

Nonfield-tested Material quality documentation includes, but is not limited to, the following:

1. [FIR - Field Inspection Report, form 734-3469](#). Examples of when this form is used are when materials are visually verified or when other supporting quality documentation is required.

OREGON DEPARTMENT OF TRANSPORTATION		FIELD INSPECTION REPORT	
PROJECT NAME (SECTION)		REPORT NO.	FOR BID ITEM NO.
138E Corridor Solutions (Roseburg)		4	830
HIGHWAY		CONTRACT NO.	
138E Corridor Solutions (Roseburg)		14808	
PROJECT MANAGER		F.A. PROJECT NO.	
North Umpqua Ted A. Paselk, P.E.		STP-S138(010)	
REASON FOR THIS REPORT			
<input checked="" type="checkbox"/> INSPECTION OF MATERIAL <input type="checkbox"/> MATERIALS ON HAND <input type="checkbox"/> OTHER (EXPLAIN)			
MATERIALS		DATE DELIVERED	
Combination Bridge Rail		Thru 6/30/2016	
DELIVERED		DELIVERED TO (NAME OF CONTRACTOR/SUBCONTRACTOR)	
USG, Scott, Portland Bolt, vulcan, unytite, Rodgers,		Carter and Company	
FOR		QUANTITY APPROVED	
16% 11262 #		16% 11262 #	
PROJECT		QUANTITY REJECTED (EXPLAIN)	
TOTAL APPROVED TO DATE 11262 # 16%		0	
SUPPORTING DATA		ESTIMATED TOTAL REQUIRED 11262 # 100%	
<input checked="" type="checkbox"/> MATERIALS INSPECTION LABORATORY REPORT NO. I- 13711 TEST _____ <input type="checkbox"/> MATERIALS LABORATORY INSPECTION LABEL OR MARK. <input checked="" type="checkbox"/> TEST RESULTS CERTIFICATE <input checked="" type="checkbox"/> QUALITY COMPLIANCE CERTIFICATE <input type="checkbox"/> QPL ITEM <input checked="" type="checkbox"/> CONFORMANCE TO EQUIPMENT LIST AND DRAWINGS (EXPLAIN) <input checked="" type="checkbox"/> CERTIFICATE OF MATERIAL ORIGIN FOR PERMANENTLY INCORPORATED IRON OR STEEL MATERIALS AND THEIR COATINGS ON FEDERAL AID PROJECTS <input checked="" type="checkbox"/> FIELD TESTS OR OBSERVATIONS (EXPLAIN)		LABORATORY REPORT NO. 16-001521/1586	
REMARKS AND EXPLANATIONS, MATERIALS DESCRIPTIONS, DATES OF MANUFACTURE, HEAT AND LOT NOS. DAMAGED OR SUBSTANDARD MATERIALS, REASONS FOR REJECTION AND DISPOSITION OF REJECTED MATERIALS.			
<p>Pay for length complete and estimate withheld for remaining work. Anchor rods previously paid with MOH 1-3. All docs on file. GR 105 Anchor rods (per RFI 49 and CCO) installed at max spacing as detailed, 2 foot o.c. front 1" , 4 foot o.c. back 5/8", in core drilled holes. spacing adjusted to miss existing deck reinforcement and CFRP deck strengthening rods. Extra rods at joints installed per plan. All reinforcement installed per approved shop drawings 118.10 dated 6/17/16 and standard drawing RD 220 / 223.</p> <p>Attached Submittal #132 for BI 830 reinforcement certs dated 07/08/16. bar makrkings Are cascade GR60, Number 4. C4S60 formliner installed as shown and previously approved with test panel and submittal 107. paint to follow. 00542.11. Pattern 162C Brush Hammer #3 from scot systems, Inc. <i>✓ QPL REBAR</i></p> <p>Remaining work: finish and paint, top tube steel installation, thus percentage of length completed shown for payment.</p> <p>Patrick Gage 7/11/2016 <i>✓ PGP 7/12/16</i> <i>LINE 6 NFCS</i> <i>"A" SHEETS.</i></p>			
WHERE INSPECTED	DATE	INSPECTOR SIGNATURE	CERT NO.
Onsite, Oak Bridge #076016A	6/30/2016	<i>[Signature]</i>	44394
734-3469 (1-2007)		Construction Forms Website: http://www.oregon.gov/ODOT/Hwy/Construction/ConstForms1.shtml	

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2. [FIS - Field Inspection Sticker, form 734-2207](#). This sticker is used in conjunction with items on the QPL, manufacturer's test results and manufacturer's Materials certifications.

QPL Search

Results of Search for Qualified Products

[Construction Home](#) You may "drill down" to retrieve more information about a single record by clicking on the "Yes!" next to a row:

[QPL Home](#)

[Do fresh search](#)

More?	Spec No.	Product Name	Category	Manufacturer
Yes!	02910.20	AVERY DENNISON T-6500	SIGN SHEETING - TYPE IV	AVERY DENNISON 800/327-5917

Version 1.0.3 May 14, 2010
Content maintained by [Dean Chess](#) | For programming, contact [ODOT Computer Support](#)

Oregon Department of Transportation
355 Capitol St. NE
Salem OR 97301-3871

FIELD INSPECTION

	CONTRACT NO. 1466Z	REPORT NO. FOR BID ITEM NO. ① 4050C
MANUFACTURER OR FABRICATOR AVERY DENNISON	BID ITEM NAME TYPE "48" SIGNS IN PLACE	
QUANTITY DELIVERED 2	QUANTITY ACCEPTED 2	QUANTITY REJECTED (EXPLAIN) 0
VERIFIED ON MATERIALS <input type="checkbox"/> HEAT LOT OR BATCH NO. <input type="checkbox"/> AASHTO/ASTM SPEC. NO. <input type="checkbox"/> ODOT LAB LABEL OR MARK <input checked="" type="checkbox"/> OTHER (EXPLAIN) VISUAL		
SUPPORT DATA <input type="checkbox"/> TEST RESULT CERTIFICATE <input type="checkbox"/> QUALITY COMPL. CERTIFICATE <input checked="" type="checkbox"/> QPL <input type="checkbox"/> CMO <input type="checkbox"/> EQUIPMENT LIST & DRAWINGS <input type="checkbox"/> OTHER (EXPLAIN)		
INSPECTED BY CINCY SODERHOLM	DATE 5/6/14	CERT. NO. 43046
REMARKS VERIFIED ODOT INSPECTION STICKER		
734-2207 (5/07) IS ON BACK OF THE SIGNS <small>Sik #203263</small>		

3. T - Test Result Certificate. As required by 00165.35(a), a test results certificate must:
- 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).

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- Identify the testing agency and the representative responsible for the test results.
- Permit positive determination that the 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.



**NATIONAL
CONCRETE MASONRY
ASSOCIATION**
Sustainable Concrete Products for Structures and Hardscapes

13750 Sunrise Valley Drive
Herndon, VA 20171-4662
703.713.1900
Fax: 703.713.1910
www.ncma.org

ASTM C1714/C1714M-13 Test Report Job No.: 13-396-1A
Preblended Dry Mortar Mix for Unit Masonry Report Date: 9/5/2013

Client: BASF Construction Chemicals
Address: 23700 Chagrin Blvd
Beachwood, OH 44122

Testing Agency: National Concrete Masonry Association
Research and Development Laboratory
Address: 13750 Sunrise Valley Drive
Herndon, VA 20171-4662

Material Description: Type S Preblended Masonry Mortar
Mark "Rheocel Plus D" Sampling Party: BASF Construction Chemicals

Date Materials Received: 7/1/2013

Summary of Test Results

Tested Property	Specified Values	Tested Values	
Compressive Strength, 7 Day	----	2340	psi
Compressive Strength, 28 Day	1800 psi min	2610	psi
Air Content	12% max	6.8	%
Water Retention	75% min	95	%

Detailed Results

Batch Information (C270-12a)

Material	Material Amount
Preblended Dry Materials	3000.0 g
Water Added to Mix	540.0 mL

Date Mixed: 7/25/2013

Air Calculation (C91/C91M-12)

400 mL Brass Cup, full: 1528.3 g
Tare Weight of brass cup: 736.4 g
Weight of 400 mL Mortar: 791.9 g
Density of mortar, D: 2.12 g/mL
Air Content: 6.8 %

Note: Density of preblended materials provided by client.

Water Retention (C1506-09)

Initial Flow: 105 %
Flow After Suction: 100 %
Water Retention: 95 %

2-inch Cube Compressive Strength (C109/C109M-12)

Cube Age: 7 Days				Cube Age: 28 Days			
Date Tested: 8/2/2013				Date Tested: 8/23/2013			
Cube Number	Cube Weight (g)	Load (lb)	Compressive Strength (psi)	Cube Number	Cube Weight (g)	Load (lb)	Compressive Strength (psi)
1	267.0	9290	2320	1	268.0	10640	2660
2	267.0	9560	2390	2	266.9	9070	2270
3	268.1	9240	2310	3	268.3	11550	2890
Average	267.4	9360	2340	Average	267.7	10420	2610

NOTE: The tested materials comply with the compressive strength, air content, and water retention requirements of ASTM C1714/C1714M-13.



 Nicholas R. Lang
 Manager, Research & Development Laboratory

Form TR-C1714-01
Revised 2/13/2013

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4. Q - Quality Compliance Certificate. As required by 00165.35(b), the quality compliance certificate will come from the manufacturer, and will:
- 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 Material, or be an identification plate or mark, decal, sticker, label or tag attached to the container or Material.



May 21, 2015

Baker Rock Resources
21880 SW Farmington Road
Beaverton, OR 97007

Re: Certificate of Compliance for Sq. Tube Sign Supports (Item 210)
OSHD Contract Number: 14795
District 8 Rumble Strips & Warning Signs
Zumar Work Order Number: 172668

This certifies that the following quantities of perforated square tubing manufactured and supplied by Ulti-Mate Highway Products (California) complies with Oregon Department of Transportation specifications set forth in section 930. The sign supports were, QPL product number 1613, manufactured, tested, and inspected according to ASTM standards A517-07 and galvanized conforming to ASTM specification A653 G140. Material produced in the United States.

<u>Description</u>	<u>Quantity (ea.)</u>
2" x 2" x 12' 12GA Perforated Sign Post	46
2" x 2" x 13' 12GA Perforated Sign Post	172

Sincerely,

David Shaw
Estimator
Zumar Industries, Inc. (WA)

ARIZONA
7833 N. 106th Avenue
Glendale, AZ 85307
phone: 623-931-7446
fax: 623-877-7446

CALIFORNIA
9719 Santa Fe Springs Road
Santa Fe Springs, CA 90670
phone: 562-941-4633
toll-free: 800-654-7446
fax: 562-941-4643

WASHINGTON
12015 Steele Street South
Tacoma, WA 98448
phone: 253-536-7740
toll-free: 800-426-7967
fax: 253-536-8680

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5. E - Equipment Lists and Drawings – These consist of lists of proposed Equipment and Materials, such as: Shop drawings, Material lists, equipment lists, catalog description sheets and manufacturer’s brochures. Submit these lists to the Engineer for review of conformance with the Specifications.

6. I - Inspection report from the Structure Services ODOT Materials Laboratory. The Inspection Report will be issued for all Materials inspected by ODOT Materials Laboratory staff, such as concrete beams, permanent signs and concrete barrier. The PM office will complete the bottom portion of the report after inspecting the Materials delivered to the Project.

INSPECTION REPORT Materials Laboratory, 800 Airport Road SE, Salem OR 97301				
Project Name: FFO - OR138E: Corridor Solutions (Roseburg)			Inspection No. 13711	
Highway North Umpqua Highway		County Douglas		Contract No. C14808
Contractor Carter & Company, Inc.		FA Project No. STP-S138(010)		Expenditure Account CON03685
Project Manager Ted Paselk		Reported By Sabel, Jim		Date Distributed JUN 14 2016
Shipment Of galv 1" x 37 1/4" F1554 Gr 105 ATR and hardware		Shipping Point Portland OR		Destination Jobsite
Consigned To Carter & Company, Inc.		Specification ASTM F1554 Gr 105		Bid Item No. 830
Inspected At Portland Bolt & Manufacturing Co. Inc.		Inspected By Sabel, Jim		Date Inspected 6-7-16
Report No.	Quantity Represented 790 ea	Quantity Previously Reported	Total Quantity Reported	
Quantity	Unit	Description	Bid Item No.	Comments
790	ea	1 x 37 1/4" galv F1554 Gr 105 ATR all thread rod	830	Lab # 16 - 001586
3160	ea	1" galv A563DH hvy hex nuts		
1580	ea	1" galv F436 washers		
Test Results Certificates and Certificate of Materials Origin are on file. Units are subject to field inspection for final acceptance pursuant to the current edition of the Oregon Standard Specifications for Construction.				
MATERIAL REPRESENTED BY THIS REPORT <input checked="" type="checkbox"/> DOES <input type="checkbox"/> DOES NOT COMPLY WITH SPECIFICATIONS				
Based on: Inspection <input checked="" type="checkbox"/> Certification <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/>				
Remarks tagged for ID				
 Scott Nelson, Structure Services Engineer				
FIELD USE ONLY				
FIELD INSP. NO.	BID ITEM NO.	QUANTITY ACCEPTED	TOTAL TO DATE	QUANTITY REJECTED (EXPLAIN)
MATERIAL REPRESENTED BY LAB REPORT ABOVE RECEIVED ON JOB VERIFIED BY			INSPECTED BY	
<input type="checkbox"/> SAMPLE NUMBER	<input type="checkbox"/> DDOT TAG MARK			
<input type="checkbox"/> AASHTO/ASTM MARK	<input type="checkbox"/> OTHER (EXPLAIN BELOW)			
REMARKS				
DISTRIBUTION: Files Portland Materials Lab Ted Paselk Carter & Company, Inc.				

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7. L - Laboratory report from the Salem ODOT Materials Laboratory for Materials that have been sampled and submitted to the Lab for testing, or for a certification evaluation for conformance to the Specifications.

OREGON DEPARTMENT OF TRANSPORTATION MATERIALS LABORATORY 800 AIRPORT RD. SE SALEM, OR 97301-4792		Page 1 of 1 (503)986-3000 FAX(503)986-3096
Contract No.: C14808	EA No.: CON03685	Lab No.: 16-001586
Project: FFO-OR138E: CORRIDOR SOLUTIONS (ROSEBURG)		
Highway: NORTH UMPQUA	County: DOUGLAS	Data Sheet No.: F40861 529
Contractor: CARTER & COMPANY INC		FA No.: STP-S138(010)
Project Manager: TED PASELK	Org Unit: 3830	Bid Item No.: 830
Submitted By: JIM SABEL	Org Unit: 7865	Sample No.:
Material Source: KING STEEL		Qty Represented: 790
Sampled At: PORTLAND BOLT	Sampled By:	Witnessed By:
DATE-Sampled: 16/ 6/ 8	Received: 16/ 6/ 9	Tested: 16/ 6/ 9
		Reported: 16/ 6/10
Type of Test: Compliance	Use: 1" X 37 1/4" ALL THREAD	

F1554 G105 TEST REPORT

Description : ALL THREAD ROD Manufacturer : KING STEEL Heat No. : NF16100735 Lot No. : Size (in) : 1.00 Coating : Zinc Material Type : F1554 G105 Specification :
Specimen No. : 1
Dimension Check : OK Test Area (in2) : 0.6060 Yield Load (lb) : 77,351 Yield Strength (psi) : 127,600 Tensile Load (lb) : 83,794 Tensile Strength (psi) : 138,300 Elongation in (%) : Reduction in Area (%) :

M961X = \$ 88.	TOTAL CHARGES: \$ 0.00
REMARKS: Material represented by sample DOES comply with specifications. *	

_____ KEVIN BROPHY - LABORATORY SERVICES MANAGER

REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THIS LABORATORY.

JILES ; PROJ MGR: TED PASELK ; CARTER & COMPANY INC ; KELLY ATTERBURY-QCCS ; PORTLAND BOLT ; REG 3 QAC
 ; PORTLAND MATERIALS ; PHYSICAL TESTING ;

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8. [Certificate of Materials Origin \(CMO\), form 734-2126](#). Required on **all** Federal Aid Projects **and** certain State funded Projects as part of the Buy America requirements specified in Subsection 00160.20.

(a) CMO for Domestic Materials Source.

 CERTIFICATE OF MATERIALS ORIGIN									
PROJECT NAME (SECTION)									
Westport Ferry Landing Replacement (Clatsop)									
CONTRACT NO. 14741									
BID ITEM NO. 40	BID ITEM NAME REINFORCED PILE TIPS								
DOMESTIC MATERIALS SOURCE (NAME AND ADDRESS)									
Vancouver Iron & Steel, Inc 1200 West 13th Street Vancouver, WA 98660									
DOMESTIC MATERIALS DESCRIPTION									
18" Conical Points									
FOREIGN MATERIALS SOURCE INCLUDING MATERIAL OF UNKNOWN ORIGIN (NAME AND ADDRESS)									
FOREIGN MATERIALS (OR OF UNKNOWN ORIGIN) DESCRIPTION AND VALUE OF IRON OR STEEL PRODUCT AS IT IS DELIVERED TO THE PROJECT									
<p>This certification is made for the purpose of establishing materials acceptance under the Contract Special Provisions titled 00160.20(a) Buy America. All iron or steel manufacturing processes, including protective coatings, for the domestic materials described above occurred within the United States of America.</p> <p>Manufacturers' certificates verifying the origin of the above described domestic materials will be kept on file for three years following final payment. Copies will be furnished to the Engineer upon request.</p> <p>I declare under penalty of perjury under Oregon and Federal laws that the foregoing is true and correct.</p>									
<table border="0"> <tr> <td style="text-align: center;">AUTHORIZED REPRESENTATIVE*</td> <td style="text-align: center;">COMPANY* NAME AND ADDRESS:</td> </tr> <tr> <td>NAME: <u>David Ozoljn</u></td> <td rowspan="3">Skyline Steel LLC 301 54th Ave E #100 Fife, WA 98424</td> </tr> <tr> <td>TITLE: <u>Sales Representative</u></td> </tr> <tr> <td>SIGNATURE: </td> </tr> <tr> <td>DATE: <u>2/26/2015</u></td> <td></td> </tr> </table>		AUTHORIZED REPRESENTATIVE*	COMPANY* NAME AND ADDRESS:	NAME: <u>David Ozoljn</u>	Skyline Steel LLC 301 54th Ave E #100 Fife, WA 98424	TITLE: <u>Sales Representative</u>	SIGNATURE: 	DATE: <u>2/26/2015</u>	
AUTHORIZED REPRESENTATIVE*	COMPANY* NAME AND ADDRESS:								
NAME: <u>David Ozoljn</u>	Skyline Steel LLC 301 54th Ave E #100 Fife, WA 98424								
TITLE: <u>Sales Representative</u>									
SIGNATURE: 									
DATE: <u>2/26/2015</u>									
<small>Submit a new certificate for subsequent shipments if any of the above information changes. *May be Contractor, Sub-Contractor or supplier</small>									
<small>734-2126 (9-2006) Original to Project Manager</small>									
<small>Construction Forms Website: http://www.oregon.gov/ODOT/My/Construction/ConstForms1.shtml</small>									

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(b) CMO for Foreign Material Source or Materials of unknown origin.

 CERTIFICATE OF MATERIALS ORIGIN	
PROJECT NAME (SECTION) OR 62 & OR 140 Intersection	
CONTRACT NO. C14763	
BID ITEM NO. 450	BID ITEM NAME CG-3 Inlets
DOMESTIC MATERIALS SOURCE (NAME AND ADDRESS)	
DOMESTIC MATERIALS DESCRIPTION	
FOREIGN MATERIALS SOURCE INCLUDING MATERIAL OF UNKNOWN ORIGIN (NAME AND ADDRESS) Fastenal 310 Table Rock Road, STE 102 Central Point, OR 97502	
FOREIGN MATERIALS (OR OF UNKNOWN ORIGIN) DESCRIPTION AND VALUE OF IRON OR STEEL PRODUCT AS IT IS DELIVERED TO THE PROJECT 1/2" x 12" galvanized anchor bolt with nut 25 each @ \$5.00 = \$125.00	
<p>This certification is made for the purpose of establishing materials acceptance under the Contract Special Provisions titled 00160.20(a) Buy America. All iron or steel manufacturing processes, including protective coatings, for the domestic materials described above occurred within the United States of America.</p> <p>Manufacturers' certificates verifying the origin of the above described domestic materials will be kept on file for three years following final payment. Copies will be furnished to the Engineer upon request.</p> <p>I declare under penalty of perjury under Oregon and Federal laws that the foregoing is true and correct.</p>	
AUTHORIZED REPRESENTATIVE* NAME: <u>Mike Butler</u> TITLE: <u>Owner</u> SIGNATURE: <u>Michael Butler</u> DATE: <u>9-15-15</u>	COMPANY* NAME AND ADDRESS: Precision Curb LLC P. O. Box 267 Eagle Point, OR 97524
<small>*May be Contractor, Sub-Contractor or supplier</small>	
<small>734-2126 (9-2006) Original to Project Manager</small>	
<small>Construction Forms Website: http://www.oregon.gov/ODOT/Hwy/Construction/ConstForms1.shtml</small>	

A CMO is needed to certify that all iron or steel manufacturing processes, including protective coatings, for the domestic Materials occurred within the United States of America.

A CMO is not needed for temporary items or for items incidental to the construction, such as tie wire, reinforcement chairs, or snap ties. The complete FHWA Buy America requirements are available on the FHWA website at: <http://www.fhwa.dot.gov/construction/cqit/buyam.cfm>. Refer to the [Buy America Exempted Item List](#) for information on exempted items.

Iron or steel of unknown origin is considered to be of foreign origin. The Agency will not pay for any foreign iron or steel materials that exceed the allowable value for the Project. Complete a [Foreign Steel Summary, form 734-1968](#), listing all iron or steel Materials of foreign or unknown origin. Refer to [Chapter 37 – Submittal of Final Project Documentation](#).

(b) Additional Nonfield-Tested Materials Quality Documentation

1. Traffic Signals

- [Blue Sheets](#) - Submittals for Field Qualification – Electrical Equipment and Materials
- [Green Sheets](#) - Submittals for Conditional Qualification - Controller Equipment
- [Red Sheets](#) - A list of certification exempt traffic management systems components used by ODOT, and other applicable public agencies. Contact the ODOT Traffic-Roadway Section for more information.

Obtain current copies of the Blue, Green, and Red Sheets electronically from the Traffic Section at:

<http://www.oregon.gov/ODOT/HWY/TS/signals.shtml>.

2. [ODOT's Qualified Products List \(QPL\)](#) – When specified, only use Materials on the qualified or approved lists. With prior approval from the Construction Section and the PM, products from the Conditional List may be used with concurrence by the Professional of Record (POR). Products that have been incorporated into the Project, and are not listed on the QPL (A or Q),, will need to be removed and replaced at the Contractor's expense with a product from the QPL.
3. Product Warranties. Refer to [Chapter 41 Warranties/Guarantees/Responsibilities for Materials and Workmanship](#).

If, after incorporation into the Project, Materials are found to not meet specifications (non-compliance), the PM, in conjunction with the POR, must determine if the Materials are to be removed and replaced or if they may remain in place as suitable for the use intended (See 00150.25). Materials that are not in close conformance with the Contract requirements, but are found suitable for the use intended, may be accepted provided that an adjustment is made to the amount paid to the Contractor for that item. [[Refer to Chapter 12C - Quality Price Adjustments](#)]

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12B-2 FIELD-TESTED MATERIALS

Most Agency Projects will include the [Quality Assurance Program](#), under which the Contractor performs all sampling and field testing of Materials. The Agency will perform monitoring, verification testing, and independent assurance testing to verify the quality of Materials represented by the Contractor's tests. Refer to the Quality Assurance Program in the [Manual of Field Test Procedures](#).

Accept field-tested Materials according to the Field Tested Materials Acceptance Guide included in the Manual of Field Test Procedures, or according to the individual Specifications for the Material. Be sure you are using the correct version of this guide. This will be the version in effect at the time of Project advertisement. This guide is updated yearly and is available electronically at:

http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/pages/mftp_manual.aspx.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised October 2015)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification		Materials Laboratory	
						Project Manager	Region Quality Assurance			
SECTION 00330 - EARTHWORK										
Establishing Maximum Density (for Compaction) Compaction	Density Curve			T 99	3468	1/Soil type		1/Project		
	Bulk Specific Gravity			T 85	3468					
	Family of Curves			T 272	3468FC					
	Deflection Testing	TM 158			1793S	1 test per 3 ft. in depth				
	Nuclear Gauge			T 310	1793S	See Table 00330-1 Below			10 % of Required QC	
	Coarse Particle Correction Deflection Testing	TM 158		T 99	1793S					
TABLE 00330-1 Frequency of Quality Control Testing (English)										
Individual Areas			Under 3500 yd² or yd³			Over 3500 yd² or yd³				
Existing Ground Surface			1 test per 1000 yd ²			1 test per 3000 yd ²				
Embankments			1 test per 500 yd ²			1 test per 3000 yd ²				
Excavations and Finished Subgrade			1 test per 1000 yd ²			1 test per 3000 yd ²				
Stone Embankment Material (See Sec. 330.16(a))	Gradation						Visual See Section 00330.16(b)			
	Compaction	TM 158			1793S	1 per Layer				
<i>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.</i>										
Imported Topsoil (See Section 01040.14(b))	Compliance				4000	See Section 4C 1/Source & 1/Type of Soil	Submit to Lab			

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The PM may accept relatively small quantities of some field-tested Materials without normal sampling and testing, as defined in the [Field Tested Materials Small Quantity Guideline](#) found in the Manual of Field Test Procedures.

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
00743	Porous Asphalt Concrete (PAC)	150 Ton
00744	Asphalt Concrete Pavement (ACP-each Level) (includes asphalt cement)	150 Ton
00745	Asphalt Concrete Pavement (Statistical Acceptance) (ACP-each Level) (includes asphalt cement).	2500 Ton

Compile all field-tested quality documentation in pads with tabs separating the required documentation by Bid item.

Field-tested Materials with failing test results must also be entered on the Test Summary B or B-QA sheets along with the quantity they represent. For Materials with failing test results, the PM, in conjunction with the POR, must determine if the Materials are to be removed and replaced or if they may remain in place as suitable for the use intended (See 00150.25). Materials that are not in close conformance with requirements, but are found suitable for the use intended, may be accepted provided that an adjustment is made to the amount paid to the Contractor for that item. [*Refer to [Chapter 12C – Quality Price Adjustments](#)*]

If specified in the Contract, the Contractor may receive a premium price adjustment (bonus) for some Materials, such as HMAC, which meet the Contract requirements for such an adjustment. Administer and calculate the adjustment in accordance with the Contract. [*Refer to [Chapter 12C - Quality Price Adjustments](#)*]

12B-3 REVIEW PROCEDURES FOR QUALITY DOCUMENTATION

(a) Review by the Project Manager

The PM must review all Project quality records to assure that the required documentation has been received and that the Material either meets Contract requirements, or that price adjustments have been appropriately assessed. Refer to [Chapter 12C - Quality Price Adjustments](#).

Steps in the documentation review by the PM process include:

1. Verify all required quality documentation is recorded and incorporated quantities are updated on the Test Summary A, B and B-QA sheets.
2. Ensure quality documents related to multiple Bid items are correctly cross-referenced on the Test Summary sheets.
3. Check all Contract Change Orders (CCO's) and the Special Provisions for any changes to the testing and acceptance documentation. If a CCO modifies testing or acceptance requirements, include a copy of that CCO with the documentation and enter it on the Test Summary sheet. If a CCO adds new line items, add them to the Test Summary sheets.
4. For all Pay Items and quality price adjustments, review all field and nonfield testing documentation requirements.
5. The person entering the data should sign and date the Test Summary sheets. The PM's quality documentation process should include a second-person review and check of the data entry.

6. List all quality-related price adjustments, including bonuses and quality related CCO's, on the [Final Materials Certification form 734-1979](#). Only quality-related adjustments are listed on the Final Materials Certification; quantity price adjustments such as liquidated damages are not to be listed. Refer to [Chapter 12C – Quality Price Adjustments](#) and [Chapter 37 – Submittal of Final Project Documentation](#).
7. Update the [Foreign Steel Summary, form 734-1968](#). Using the information shown on the Certificate of Materials Origin forms submitted by the Contractor for all steel or iron Materials, list all Materials of foreign or unknown origin on the Foreign Steel Summary. In order for the PM to accurately know how much foreign Material has been incorporated into the Project, the Foreign Steel Summary must be kept up-to-date throughout the life of the Project. Attach copies of the CMO's for foreign steel to the Foreign Steel Summary when submitting with the final Project documentation. Refer to [Chapter 37 – Submittal of Final Project Documentation](#).
8. If there are any quality or quantity issues outstanding for which the PM is requesting an exception, the [Documentation Review Report Supporting Documentation: PM Exception Explanation, form 734-2704](#) will need to be completed. The PM must also obtain, and attach to this form, written concurrence from the applicable Technical Resource (TR) and Professional of Record (POR). In addition, this form needs to be signed by both the PM and RAS, and submitted with the final Project documentation. This form will be signed off by the Contract Administration Engineer (CAE) at the time of final documentation acceptance, and designated as "Accepted – Participating (federal funds)", "Accepted – Non-Participating", "Not Accepted (Return to PM) - Prepare CCO", or "Not Accepted (Return to PM) - Other". Refer to [Chapter 37 – Submittal of Final Project Documentation](#).

(b) Review by the Region Assurance Specialist (RAS)

The RAS will periodically review Project documentation throughout the life of the Project. The frequency of those reviews will depend on Project size, duration, complexity, PM's experience in administering ODOT construction Contracts, and quarterly release of retainage.

The RAS will review and provide guidance in quality documentation procedures used to support payments to the Contractor, including but not limited to:

- Quality documentation requirements as determined by the Contract for field- and nonfield-tested Materials.
- Test Summaries A, B and B-QA (purpose, how to set up, how to track quality documentation, etc.).
- Types of quality documentation (quality compliance certifications, Certificate of Materials Origin, test results, warranties, Blue and Green sheets, etc.).
- Price adjustments associated with non-specification Materials and Materials with superior quality (Concal, Statspec, smoothness, etc.).

