

OREGON DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION SECTION

# NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE

2002 STANDARD SPECIFICATIONS

REVISION DATE: JULY 2007



The most current version of this guide is 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 Specifications, etc., which would require additions to, deletions from, or changes to this listing.

Internet Address: <http://egov.oregon.gov/ODOT/HWY/CONSTRUCTION/docs/NFTMAG.pdf>

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SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS	
				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD
				LAB	PM			
<p>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.</p> <p><b>This guide does not have precedence over the Special Provisions, Contract Plans, or Standard Specifications.</b></p>								
E - Equipment Lists and Drawings						F - Field Inspection Report (FIR)		
L - ODOT Materials Laboratory or Inspection Report						O - Certificate of Materials Origin (00160.20 for Federal Aid projects)		
W - Warranty (Manufacture or Workmanship)						BG – Blue and Green Sheets (see section 00970, 00980 or 00990)		
<p>Q - Quality Compliance Certificate – The Certificate from the manufacturer shall: • Certify that the material meets the contract requirements and identify the specified test methods used by number (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’s representative with the shipment of the material, or be an identification plate or mark, decal, sticker, label, or tag attached to the container or material.</p>								
<p>T – Test Results Certificate – The Certificate from the manufacturer shall: • Certify that the material has been sampled and tested and that the test results meet the Specifications • Include a copy of the 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 certificate • Be delivered to the Engineer with the shipment of the material.</p>								
<p>QPL – For some materials this guide will refer to the QPL. In the QPL there is a column labeled “List”. If there is an “A” in that column for the particular item you are looking up, no sampling or testing is required, it is approved for use. Simply document in an FIR your recognition of the product and its existence on the Approved “A” List. Material listed as approved (A) on the current Qualified Products List (QPL) fulfill the requirements for a Quality Compliance Certificate (Q) for acceptance. <b>When approval is given to use a product that is not listed on the current QPL, a Contract Change Order will need to be executed and a Quality Compliance Certificate will be required. The Agency may require testing.</b> If there is a “Q” in that column the product is Qualified and is suitable for use in that specific category. Job Control testing or additional certification may still be necessary. Consult the Contract documents for further information.</p>								
<p>Small Quantity is 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 Project Manager when requested in writing by the Contractor. <b>Small Quantity acceptance requirements are listed in the guide along with the maximum amount of material that can be accepted as small quantity.</b></p>								

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00225	Work zone traffic control	Temporary protection and direction of traffic	00225.90(b)				No quality acceptance documents required.	
		Signs, sign supports, sign covers, flags, and amber flashers	00225.11				No quality acceptance documents required. See Contract Specifications for required Materials.	
		Barricades, guard rail, and reflectors	00225.12				No quality acceptance documents required. See Contract Specifications for required materials.	
		Concrete barrier (fabricated for project)	00225.12	See 00820 in this guide.				
		Concrete barrier (from different project)	00225.12				No quality acceptance documents required. See Contract Specifications for required materials.	
		Impact attenuators	00225.12				No quality acceptance documents required. See Contract Specifications for required materials.	
		Tubular markers, plastic drums, salvaged delineators	00225.13				No quality acceptance documents required. See Contract Specifications for required materials.	
		New delineators	00225.13				No quality acceptance documents required. See Contract Specifications for required materials.	
		Reflective pavement markers	00225.13				No quality acceptance documents required. See Contract Specifications for required materials.	
		Oiling pavement markers, overlay pavement markers	00225.13				No quality acceptance documents required. See Contract Specifications for required materials.	
		Striping paint and beads	00225.13				No quality acceptance documents required. See Contract Specifications for required materials.	
		Temporary illumination, temporary traffic signals	00225.14, 00225.15				See Contract Documents for required materials.	

Note: The PM is not required to submit quality acceptance documents for temporary items with the final project documentation but they still must ensure that the specified materials are used. See Contract Specifications for required materials.

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		Temporary electrical signs	00225.16				No quality acceptance documents required. See Contract Specifications for required materials.	
		Portable Temporary Traffic Signals	00225.16(c), 00225.32, 00225.46(d), 00225.62(c), 00225.86(c), 00225.96				Use QPL listed items. See Contract Documents for requirements.	
		Flaggers, pilot cars	00225.27,29				No quality acceptance documents required.	
00280	Erosion and sediment control	Seed (Temporary)	01030.13		T		F	"T" is for germination and purity. Information on tag from seed bag.
		Fertilizers	01030.14		Q		F	"Q" is from manufacturer.
		Mulch materials	01030.15		Q		F	"Q" is for manufactured mulch.
		Straw Bales (considered permanently incorporated due to seed)	01030.15(b)		T or Q,		F	"Q" Source is Oregon Certified Seed" field or "T" lab results of seed harvested from field.
00350	Geosynthetic installation	Geotextile fabric (Documentation Level B)	02320		Q		F	"Q" is from fabric manufacturer.
		Geotextile fabric (Documentation Level A)	02320		T		F	"T" is from fabric manufacturer. Field includes lot and roll numbers on FIR.
00390	Riprap protection	Geotextile fabric	02320	See 00350 in this guide.				
00396	Shotcrete slope stabilization	Shotcrete	00396					See Contract Documents
		Steel reinforcement	02510	See 00530 in this Guide.				
		Polyvinyl Chloride Pipe(PVC)	02410.70		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Curing compound	02050.10			L	F	Shall be on the QPL Approved products list. Project Mgr submit a one-quart sample of each Lot # to the Materials Lab for testing prior to use on the project.

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		Grout	02080.20		Q		F	See Contract Documents or QPL for Approved Products List acceptance.
00420	Salvaging pipe	New materials	00420.10	See 00445 of this Guide.				
		Salvaged materials	00420.10					No quality acceptance documents required.
00430	Subsurface drains	Perforated corrugated polyethylene pipe	02410.60		Q		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, and AASHTO designation.
		Perforated polyvinyl chloride pipe(PVC)	2410.70		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Perforated corrugated steel pipe and protective coating	02420.30, 02420.20		Q,O		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO designation and type of coating.
		Perforated corrugated aluminum alloy pipe and protective coating	02420.50, 02420.20		Q		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO designation and type of coating.
		Special filter material	02610.10		T		F	
		Granular drain backfill material	00430.11,		T		F	.
		Geotextile fabric	02320	See 00350 in this Guide.				
00435	Wick drains	Wick drains (Complete System)	00435				F	Use new wick drains from the QPL or that conform to specifications.
		Core	00435.11				F	Visual Acceptance
		Jacket (Geotextile)	00435.12		T		F	"T" is from fabric manufacturer.

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00445	Sanitary, storm, culvert, siphon, , and irrigation pipe	Nonreinforced concrete pipe	02410.10(f)				F	<p>Listed below are the ODOT approved manufacturers:</p> <ul style="list-style-type: none"> <li>▪ Hanson Pipe &amp; Products, Tualatin, OR</li> <li>▪ Hanson Pipe &amp; Products, Portland, OR</li> <li>▪ SPEC Industries, Eugene, OR</li> <li>▪ Advantage Precast, Keizer, OR</li> <li>▪ Advantage Precast, White City, OR</li> <li>▪ AMCOR Precast, Nampa, ID</li> <li>▪ Cascade Concrete Products, Scappoose, OR</li> </ul> <p><b>If Pipe is from a manufacturer other than those listed above</b>, contact the Structural Materials Engineer (503-986-3056) for acceptance information prior to pipe placement.</p>	
		Reinforced Concrete Pipe	02410.10(g)		O		F		
		Rubber gaskets for concrete pipes	02440.40						No quality acceptance documents required.
		Corrugated steel pipe, pipe arches, protective coating and connecting bands	02420.10, 02420.20, 02420.30		Q,O		F		"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO/ASTM designation and coating type.
		Corrugated Polyethylene Pipe	02410.60		Q		F		Must be on QPL. "Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO designation and coating type.
		Polyvinyl Chloride Pipe(PVC)	02410.70		Q		F		"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name and/or trademark, size, and ASTM designation.
		Ductile Iron Pipe	02420.11		Q,O		F		"Q" is markings on pipe. Field will include manufacturer, size and AWWA designation on FIR.
Corrugated aluminum alloy pipe, protective coating and connecting bands.	02420.40, 02420.20		Q		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer, size, and AASHTO designation.			
00450	Structural plate pipe, pipe arch, and arch	Galvanized steel plates	02430.10		Q,O		F	"Q" is manufacturer, size and AASHTO designation from the steel plates included on the FIR..	

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		Aluminum alloy plates	02430.20		Q		F	"Q" is manufacturer, size, and AASHTO designation from aluminum sheets included on the FIR.
		Bolts, nuts, and washers (steel)	02430.90		Q,O		F	"Q" is from manufacturer.
		Concrete reinforcement	00450.10	See 00530 in this guide for reinforcement.				
00460	Paved culvert end slopes	Welded wire fabric	02510.40		O		F	
		Curing compound	02050.10					No testing required when used on end slopes. See QPL for Approved Products List.
00470	Manholes, catch basins, and inlets	Gaskets and plastic compound	02440.40, 02440.60					No quality acceptance documents required.
		Precast concrete manholes and manhole top slabs	02450.10, 02450.20		O		F	Listed below are the ODOT approved manufacturers: <ul style="list-style-type: none"> <li>▪ Central Oregon Redi-Mix, Redmond, OR</li> <li>▪ Utility Vault, Wilsonville, OR</li> <li>▪ Hanson Pipe &amp; Products, Tualatin, OR</li> <li>▪ Hanson Pipe &amp; Products, Portland, OR</li> <li>▪ Spec Industries, Eugene, OR</li> <li>▪ Advantage Precast, Keizer, OR</li> <li>▪ Advantage Precast, White City, OR</li> <li>▪ AMCOR Precast, Nampa, ID</li> <li>▪ Cascade Concrete Products, Scappoose, OR</li> </ul> <p><b>If manhole elements are from a manufacturer other than those listed above, contact the Structural Materials Engineer (503-986-3056) for acceptance information prior to manhole placement.</b></p>
		Precast concrete catch basins, inlets, outlet protection blocks & manhole grade rings	02450		O		F	"O" is for reinforcement, when item contains steel reinforcement.
		Cast-in-place units (steel reinforcement)	02510.10, 02510.40	See 00530 in this Acceptance Guide for reinforcement.				

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		Metal frames, grates, covers, and ladders	02450.30		Q,O		F	"Q" is from fabricator.
00475	Drain wells	Well casing	00475.10		Q,O		F	"Q" is from steel manufacturer.
00480	Drainage curbs	Preformed expansion joint filler	02440.10					No quality acceptance documents required.
		Epoxy bonding agent	02070.10				F	Material must be on QPL approved list.
00490	Work on existing sewers and structures	New materials	00490.10	See 00470 in this guide				
		Salvaged materials	00490.10				F	"F" can be satisfied with a note in the Test Summary
00512	Drilled Shafts	Permanent Shaft Casing	00512.13		Q,O		F	"Q" is from the manufacturer.
		Steel reinforcement	02510	See 00530 in this Guide.				
		CSL Tube	00512		Q,O		F	"Q" is from the manufacturer.
		Grout	02080.20		Q		F	See Contract Documents or QPL for Approved Products List acceptance
00520	Driven piles	Steel piling	02520.10		T,O	L*	F	"T" is from steel manufacturer. Include the pile markings on FIR; heat No., lot No., AASHTO designation, grade, brand, quantity and submit copies to Salem Materials Lab for review and written Lab report. *If no "T", check with Lab for physical test requirement.
		Splices	00520.43g					See Contract Documents for Welding Procedures and requirements.
		Steel pipe pile cutting shoes	02520.10(b)		Q,O		F	"Q" is from pile shoe manufacturer.
		Pile tip reinforcement for steel H piles	02520.10		T,O		F	"T" is from pile tip manufacturer. Pile tips must be on the QPL qualified list. Verify heat # on "T" matches numbers on tip.
		Timber piling and preservative treatment	02120.20, 02190		Q		F	
		Timber piling straps	02120.30		Q,O		F	
		Prestressed concrete piles	02520.20	See 00550 in this guide.				



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00530	Steel reinforcement for concrete	Bar reinforcement <b>(From Approved Manufacturer on QPL)</b>	02510.10		Q,O		F	"Q" is the visual verification of the steel manufacturer's identification markings rolled into the bar. Field verifies identification markings on bars and records on the FIR. <b>NO PAPER "Q" IS REQUIRED</b>
		<hr/> <b>(Not from Approved Manufacturer on QPL)</b>		T,O		L	F	"T" is from steel manufacturer. Field obtains for each manufacturer, one 4 ft sample of the size representing the greatest quantity needed for the project. Submit samples to Salem Materials Lab. and include manufacturer's name and heat number.
		Epoxy coated bar reinforcement <b>(From Approved Manufacturer on QPL)</b>	02510.11		Q,O		F	Bar reinforcement is accepted as above either from an Approved Manufacturer or from a non-Approved Manufacturer.  "Q" is for coating material and coating. 02510.11(e) includes prequalification and certification requirements for coating process and reinforcement.
		<hr/> <b>(Not from Approved Manufacturer on QPL)</b>		T, Q, O		L	F	Bar reinforcement is accepted as above either from an Approved Manufacturer or from a non-Approved Manufacturer.  "Q" is for coating material and coating. 02510.11(e) includes prequalification and certification requirements.  "O" is for coating process and reinforcement.
		Mechanical splices	02510.20		Q,O	L	F	"Q" is from the splice manufacturer. "L" -Field submits installation qualification samples and quality control samples to Salem Materials Lab. as required by 00530.42(c). Splice material must be on QPL.
<p>Note: A maximum of 30 yd<sup>2</sup> of each size of welded wire fabric used for guardrail anchors, culvert end slopes, and misc. small structures may be accepted as Small Quantity. "O" and "F" is required for acceptance.</p>								

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		Welded wire fabric (except slope paving)	02510.40		Q,O	L	F	"Q" is from steel manufacturer. Field submits to Salem Materials Lab minimum of one full width of sheet by 3 ft .sample for each size of fabric size per project. If this is not possible, contact Materials Section's Physical Testing Group @ 503/986-3089 for sampling requirements.
		Dowels	02510.50		Q,O		F	"Q" is from steel manufacturer.
		Wire	02510.60		Q,O	L	F	"Q" is from steel manufacturer. Field submits to Salem Materials Lab minimum of one 6 ft. sample (cut in half, bound, and tagged) per size, per project.
00535	Resin bonded Anchor System	Anchor bolts	00535.10		T,Q,O		F	"T" is from the manufacturer. "Q" is from galvanizer.
		Reinforcing steel	00535.10	See 00530 in this Guide for reinforcement.				
		Resin – High or low strength as specified.	00535.10				F	See QPL for Approved Products List acceptance. See Special Provisions and QPL" remarks" for additional requirements.
00540	Concrete Bridges	Cement	02010			L		Shall be on the QPL Approved products list or approved by the Structural Services Engineer (503/986-3053) prior to use. "L" is ODOT concrete mix design.
		Modifiers	02030			L		Shall be on the QPL Approved products list or approved by the Structural Services Engineer (503/986-3053) prior to use. "L" is ODOT concrete mix design.
		Chemical Admixtures	02040			L		See the QPL for Approved products list. "L" is ODOT concrete mix design. See 02040.10 for acceptance of products not on QPL prior to use.
		Curing Materials – Liquid Compounds	02050.10			L	F	Shall be on the QPL Approved products list. Project Mgr submit a one-quart sample of each Lot # to the Salem Materials Lab for testing prior to use on the project.
		Curing Materials – Polyethylene Films	02050.20		Q		F	"Q" is from the manufacturer.

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		Note: A maximum of 20 gallons of each type of paint may be accepted as Small Quantity per project. Requires a "T" and a "Q" from paint manufacturer and an FIR. The FIR must list the manufacturer, product name, batch #s, expiration date, and indicate that the paint container was sealed and not leaking when it arrived.						
		Paint (PCC Surface Finish)	02210				F	Use concrete coatings from the QPL "A" list. See 02210.10 for labeling requirements. Field includes the product name, expiration date and batch numbers from the can labels on the FIR.
00545	Reinforced concrete bridge end panels	Reinforcement and dowels	00545.10	See 00530 in this Guide for reinforcement and dowels.				
		Joint filler	00545.44	See 00585 in this Guide for joint filler.				
00550	Precast prestressed concrete members	Precast unit	00550	T,O		L	F	"T" is from steel manufacturer. The Materials Lab will perform appropriate inspection and testing for all materials and fabrication.
		Paint	02210	See 00540 in this Guide.				
		Tie rods, nuts and washers	02560.30	T	T,Q,O	L	F	"T" is from manufacturer. The Materials Lab will perform appropriate inspection and testing for all materials and fabrication. Sample and test according to 02560.60.
00555	Post-tensioning	Methods			E			
		Seven wire strand	02515.10		T, O	L	F	"T" is from strand manufacturer. Field submits to Salem Materials Lab for testing, prior to use, one 8 ft. sample from each reel, coil, or pack.
		High tensile strength wire	02515.20		T,O	L	F	"T" is from wire manufacturer. Field will submit to Salem Materials Lab for testing, prior to use, minimum of one 8 ft. sample from each 10 coils.
		High strength steel bars	02515.30		T, O	L	F	"T" is from manufacturer. Field will submit to Salem Materials Lab for testing, prior to use, two 4 ft. bars.
		Anchorage	02530 02540		T,O		F	"T" is from anchorage assembly manufacturer.
		Tendon duct	02515.50		Q,O		F	"Q" is from duct manufacturer.
		Grout	00555.12		Q		F	See Contract Documents or QPL for Approved Products List acceptance

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00560	Structural steel bridges	Fabricated steel items	02530	T,O		L	F	"T" is from steel manufacturer. The Materials Lab will perform appropriate inspection and testing for all materials and fabrication.
		Paint	See 00594 in this guide.					
		Anchor bolts, high-strength bolts and nuts	02560.20, 02560.30	T	T,Q,O	L	F	"T" is from manufacturer. "Q" is from galvanizer. Sample and test according to 02560.60. Submit by Lot to Salem Materials Lab for testing.
00570	Timber structures	Timber, lumber and preservative treatment	02130, 02140, 02190	T		L	F	The Materials Lab will perform appropriate inspection and testing for all materials and fabrication.
		Connectors and fasteners	02150		Q,O		F	"Q" is from connector manufacturer.
00581	Bridge drainage system	Steel pipe	00581.10		Q,O		F	"Q" is from pipe manufacturer.
		Fabricated steel items	02530		T,Q,O		F	"T" is from the steel manufacturer.
		Connectors and fasteners	02560		Q,O		F	"Q" is from connector manufacturer.
00582	Bridge bearings	Non-laminated pads	02571		T,Q		F	"T" is from pad manufacturer.
		Laminated pads	02571	T,O		L	F	The Materials Lab will perform appropriate inspection or testing for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 503/653-3083 to coordinate inspection at the lab that the contractor has chosen to conduct the testing.
		Fabricated steel items	02570	T, O.		L	F	The Materials Lab will perform appropriate inspection and testing for all materials and fabrication.
00583	Electrical conduit in structures	Metal conduit	02920.10		Q, O		F	"Q" is from manufacturer.
		Non-metallic conduit	02920.11		Q		F	"Q" is from manufacturer.
00584	Elastomeric Concrete Nosing	Nosing Material	00584.00		Q		F	The Bridge Engineer must approve for use products from the QPL prior to installation. Materials not from the QPL may also be used with prior approval from the Bridge Engineer.
		Primer	00584.00		Q		F	Use primer specified for use by the manufacturer of the nosing material.

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00585	Expansion joints	Fabricated steel items	02530, 02560, 02570.10(b), 02440.19	See 00560 in this guide.				
		Proprietary devices	02440, 02570		Q,E,O		F	"Q" is from the proprietary device manufacturer. "E" when specified. Must be on the QPL.
		Joint fillers	02440.10-.30		Q		F	"Q" is from joint filler manufacturer. Must be on the QPL.
00587	Bridge rails (including pedestrian rail)	Fabricated steel items	02530, 02810		T,Q,O		F	"T" is from steel manufacturer.
		Thrie beam rail	02810.50		Q,O		F	
		Concrete rails	00587.10	See 00530 in this Acceptance Guide for reinforcement and 00540 for concrete coating.				
		Paint (steel coating)	02210.30			L	F	See 02210.10 for sampling, testing, and labeling requirements. Submit samples to the Salem Materials Lab for testing.
		Powder Coating	00594.00			L	F	The Materials Lab will perform appropriate inspection for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 503/653-3083 to coordinate.
		Incidentals (plates, caps, bolts, nuts, and misc. pieces)	00587.43, 00560, 02560.		Q,O		F	"Q" is from the steel item manufacturer.
00591	Membrane waterproofing	Waterproofing system materials	00591 and/or Contract Documents		Q, W*		F	"Q" is from the waterproofing system manufacturer. Must be on the QPL. See Special Provisions for "W" requirements when Warranted Membrane Waterproofing is specified.
00594	Preparing and coating steel structures	Note: A maximum of 20 gallons of each type of paint may be accepted as Small Quantity per project. Requires a "T" and a "Q" from paint manufacturer and an FIR. The FIR must list manufacturer, product name, batch #'s, expiration date, and indicate that the paint container was sealed and not leaking when it arrived.						
		Coating materials	00594.11,			L	F	See 00594.11 for sampling, testing, and labeling requirements when submitting to the Salem Materials Lab for testing. Field includes the product name, expiration date and batch numbers from the can labels on the FIR.
00595	Reinforced concrete box culverts	Cast-in-place	00595.10	See 00530 in this guide for reinforcement.				
		Precast unit	00595.10	T,O		L	F	"T" is from steel manufacturer. The Materials Lab will perform appropriate inspection and

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							testing for all materials and fabrication.	
		Joint Seals	02440.40		Q		F	"Q" is from joint seal manufacturer.
00596	Retaining Walls	Proprietary Systems (verified)			E,Q,O		F	See Special Provisions
		Verify Proprietary Systems with ODOT Bridge Design and if not Proprietary then use guide for materials listed below.						
		Galvanized steel sheets, bolts, nuts, and hardware for metal bin-type walls	00596.15, 02350		T,Q,O		F	"Q" is from fabricator. "T" is from the steel manufacturer.
		Gabion baskets	00596.12, 02340		Q,O		F	"Q" is from basket manufacturer.
		Geotextile	00596.16	See 00350 in this guide.				
		Precast concrete MSE retaining wall panel	00596.13(e)		O		F	Listed below are the ODOT approved manufacturers:  <ul style="list-style-type: none"> <li>• Freedom Precast, Salem, OR</li> </ul> <b>If MSE panels are from a manufacturer other than those listed above, contact the Structural Materials Engineer (503-986-3056) for acceptance information prior to MSE panel placement.</b>
		Precast concrete segmental retaining wall units	00596.13(f)		T,Q,O		F	"T" is from unit manufacturer.
		Prefabricated modular concrete blocks	00596.13(g)		Q		F	"Q" is verification by inspector and documented on the FIR that the blocks are within the tolerances and color as specified in 00596.13(g).
		Steel reinforcement for concrete	00596.14	See 00530 in this guide.				
		Structural steel	00596.15	See 00560 in this guide.				
		Piles	00596.19	See 00520 in this guide.				
		Timber	00596.18	See 00570 in this guide.				
		Inextensible soil reinforcing strips	00596.15(b)		Q,O		F	

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		Inextensible soil reinforcing mesh	00596.15(b), 02510.40		Q,O	L	F	"Q" is from steel manufacturer. Field submits to Salem Materials Lab minimum of one full width of sheet by 3 ft. long sample per size per project. If this is not possible, contact Construction Section's Physical Testing Crew for sampling requirements (503-986-3089)	
		Inextensible soil reinforcement attachment hardware	00596.15, 02560.		Q,O		F		
		Extensible soil reinforcement	00596.16		T		F	See 00350 in this guide.	
		Bearing pads	00596.17		Q		F	"Q" is from the manufacturer.	
		Epoxy coated welded wire	00596.15(b)		Q,O		F	Certificate indicating compliance with ASTM A 884.	
00597	Sound walls	Concrete block walls	00597.11						
		- Concrete blocks and caps			Q,T		F	"Q" is from block manufacturer.	
		- Reinforcement		See 00530 in this Guide for reinforcement.					
		- Mortar and grout			Q		F	See Contract Documents or QPL for Approved Products List acceptance	
		- Preformed expansion joint filler	02440.10		Q		F	"Q" is from manufacturer.	
		- Fillers, sealers, and damp proofing					F	Use materials from the QPL Approved Products List.	
		Precast concrete panel sound walls	00597.12		O		F	Listed below are the ODOT approved manufacturers: <ul style="list-style-type: none"> <li>▪ Utility Vault, Willsonville, OR</li> <li>▪ Concrete Products of Oregon, Camas, WA</li> <li>▪ Freedom Precast, Salem, OR</li> </ul> <b>If soundwalls are from a manufacturer other than those listed above,</b> contact the Structural Materials Engineer (503-986-3056) for acceptance information prior to soundwall placement.	
		Fleming panel lock fence sound walls	00597.13	T	Q		F	"T" is the manufacturer's test results.	

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		- Reinforcement		See 00530 in this Guide for reinforcement.				
00599	Concrete slope paving	Blocks, curb and berm paving	00599.42-.44	See 00530 in this Guide for reinforcement.				
00746	Crack Sealing of flexible pavements	Sealants – Hot poured	00746		Q		F	See section 00746.10 for acceptance.
00755 00756	PCC Pavement	Cement	02010	See 00540 in this Guide for Cement.				
		Modifiers	02030	See 00540 in this Guide for Modifiers.				
		Chemical Admixtures	02040	See 00540 in this Guide for Chemical Admixtures.				
		Curing Materials – Liquid Compounds and Polyethylene Films	02050.10, 02050.20	See 00540 in this Guide for Curing Materials.				
00759	Miscellaneous PCC structures	Cement, Modifiers, Admixtures and Polyethylene Curing Materials	02010, 02030, 02040, 02050.20	See 00540 in this Guide.				
		Curing Materials – Liquid Compounds	02050.10			L	F	Shall be on the QPL Approved products list. Project Mgr submit a one-quart sample of each Lot # to the Salem Materials Lab for testing prior to use on the project. No testing if used on MSC.
		Preformed expansion joint filler	02440.10					No quality acceptance documents required. Suitable products are listed on the QPL.
		Welded wire fabric, dowels, wire and bar reinforcement	00530, 02510		Q,O		F	For use in miscellaneous PCC structures only without sampling and testing. Use bar reinforcement from the QPL.
00810	Metal guardrail	Galvanized steel beam rail (Guard rail), transitions and end sections (Includes Hardware)	02820		Q,O		F	"Q" = Visual verification of AASHTO M 180, Class A, Type II stamp must be recorded on FIR. Guardrail W/O stamp will be rejected
		Metal posts Note: Metal blocks are not permitted.	02820.20		T,Q,O		F	"T" is from steel manufacturer.



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		Wood posts and blocks	02110.10, 02110.20				F	Listed below are the ODOT approved manufacturers: <ul style="list-style-type: none"> <li>▪ Durawood Treating</li> <li>▪ Jasper Wood Products</li> <li>▪ McFarland-Cascade.</li> </ul> <b>If posts and blocks are from a source other than those listed above, contact Structure Services, 503-986-3053.</b>
		Plastic blocks			Q		F	See Contract Documents or QPL 2110.20
		Guard rail anchor and hardware	02820.40		O	L	F	"L"- Project Manager will submit one cable assembly per project or one cable per manufacturer to the Salem Materials Lab for testing. Stock testing lab reports are good for 1 year.
		Guard Rail Terminals			Q,O		F	See Contract Documents or QPL. These typically have a Type I coating.
		Welded wire fabric in anchors			O		F	
00820	Concrete barrier (cast in place)	Hardware	00820.11		Q,O		F	"Q" is from hardware fabricator.
		Bar reinforcement	02510.10	See 00530 in this guide.				
		Welded wire fabric	02510.40	See 00530 in this guide.				
		Preformed joint filler	02440.10					No quality acceptance documents required.
		Note: A maximum of 20 gallons of each type of paint may be accepted as Small Quantity per project. Requires a "T" and a "Q" from paint manufacturer and an FIR. The FIR must list the manufacturer, product name, batch #'s, expiration date, and indicate that the paint container was sealed and not leaking when it arrived.						
		Paint	02210.30(c)				F	Use concrete coatings from the QPL "A" list. See 02210.10 for labeling requirements. Field includes the product name, expiration date and batch numbers from the can labels on the FIR.

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	Concrete barrier (precast)	Barrier			O		F	<p>Listed below are the ODOT approved manufacturers:</p> <ul style="list-style-type: none"> <li>▪ Central Oregon Redi-Mix, Redmond, OR</li> <li>▪ Utility Vault, Wilsonville, OR</li> <li>▪ KT Contracting Co., Salem, OR</li> <li>▪ Carter &amp; Company, Salem, OR</li> <li>▪ Concrete Products of Oregon, Camas, WA</li> <li>▪ Amcor Precast, Nampa, ID</li> <li>▪ LTM, Coos Bay, OR</li> <li>▪ Freedom Precast, Salem, OR</li> </ul> <p><b>If barrier are from a manufacturer other than those listed above, contact the Structural Materials Engineer (503-986-3056) for acceptance information prior to barrier placement.</b></p>
		Grout	02080.40		Q		F	See Contract Documents or QPL for Approved Products List acceptance
		Hardware	00820.11		T,Q,O		F	"T" is from hardware fabricator, "Q" is from the galvanizer.
		Note: A maximum of 20 gallons of each type of paint may be accepted as Small Quantity per project. Requires a "T" and a "Q" from paint manufacturer and an FIR. The FIR must list the manufacturer, product name, batch #'s, expiration date, and indicate that the paint container was sealed and not leaking when it arrived.						
		Paint	02210.30(c)					F
00822	Glare shields	Modular and individual glare shields, includes molded plastic brackets	00822.10				F	See QPL for Approved Products List.
		Brackets and assembly hardware – stainless or galvanized steel	00822.10		Q,O		F	"Q" is from fabricator. "O" is for galvanizing and steel.

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00830	Impact attenuators	Impact attenuator system	00830.00		O		F	See QPL Approved Products List.
00840	Delineators and milepost marker posts	Galvanized support posts	02850.10		O		F	See QPL for list of Approved Products.
		Target members	02850.20					No quality acceptance documents required.
		Flexible delineators	02850.30				F	See QPL Approved Products List.
		Reflective sheeting milepost markers	02910.30, SP 02910.20	See 00940 in this guide.				
00850	Pavement markings for legends	Reflective sheeting for delineators	02850.40,		Q		F	See the QPL approved products list for Type III or Type IV sheeting meeting 02850.40 specifications.
		Pavement marking materials	02840.50		W		F	See QPL for Approved Products List acceptance. Warranty on final product, see 00850.75 and special provisions. Reflective elements per the manufacturer.
00851	Permanent Pavement Striping Tape	Pavement marking material	00851.10		W		F	See QPL for Approved Products List acceptance
		Reflective Elements	00851.46		T			Retro-reflectivity test for projects with more than 5,000 feet. Reflective elements per the manufacturer.
00860	Pavement markers	Note: A maximum amount of adhesive for 200 pavement markers may be accepted as Small Quantity. Must be from the QPL "Q" list with an FIR listing manufacturer and lot #.						
		Pavement markers	02840.60				F	See QPL for Approved Products (A) List acceptance
		Adhesive – Permanent Applications	02840.61			L	F	"L"-- Project Manager submit a one-quart sample of each epoxy component or a brick sample of flexible bituminous adhesive to Salem Materials Lab as required by 02840.61. Flexible bituminous adhesives must be on QPL (Q) list and tested by Lot #.
		Adhesive – Temporary Applications	02840.61				F	See QPL for Approved Products (Q) list.
00861	Painted Permanent Pavement Striping	Paint and Beads	02840.10,20				F	See QPL for Approved (A) Products List acceptance.
00862	Durable Permanent Pavement Striping	Pavement Marking Material	00862.10, 02840.20		W, T		F	See QPLfor Approved Products List acceptance. T is for retro-reflective testing.

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00910	Wood sign posts	Note: A maximum of 200 FBM (0.5 m <sup>3</sup> ) of wood sign posts may be accepted as Small Quantity with an FIR.						
		Posts and preservative treatment	02110.40, 02190		T,Q		F	"T" is for preservative treatment. "Q" is for the grading certificate of lumber inspection. Field-treatment preservatives are listed in the QPL.
00920	Sign support footings	Reinforcement	00920.10	See 00530 in this guide.				
		Conduit	02920.10-.12		Q,O		F	"Q" is from conduit manufacturer.
		Anchor bolts and nuts	02560.30	T	T,Q,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. Sample and test according to 02560.60 to submit to the Salem Materials Lab.
00930A	Metal sign supports – Breakaways, Pipe Sign Posts, Square Tube Sign Posts, Triangular Base, Offset, Double, & Triple Supports, Exit Number, Sign and Luminaire, Signal Pole Mounts, and Route Marker Frames (00930.01 – a, b, d, f, g & h)	Sign posts, supports and mounts	00930		Q,O		F	"Q" is from product manufacturer.
		Commercially manufactured products	0930.03		Q,O		F	"Q" is from product manufacturer.
		High Strength Bolts and nuts	02560.20		Q,O		F	"Q" is from the manufacturer. For the listed sign applications only – no testing is required by the ODOT lab on the bolts and nuts.
		Break Away Mechanism	00930		Q,O		F	"Q" is from product manufacturer.
00930B	Metal sign supports – Sign Bridge, Ell Signs Bridge, Butterfly & Cantilever Sign Structures, Structure Mounts, Special Sign Brackets (00930.01 – c, e i & j)	Working drawings	00930.02		E			"E" required for structural metal work.
		Sign bridges, structures and walkways	00930	T,O		L	F	"T" is from the steel manufacturer. The Materials Lab will perform appropriate inspection for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 503/653-3083 to coordinate.
		Commercially manufactured products	0930.03		Q,O		F	"Q" is from product manufacturer.

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		High-Strength Bolts and nuts	02560.20	T	T,Q,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. Sample and test according to 02560.60. The Materials Lab will perform appropriate inspection for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 503/653-3083 to coordinate. Field samples must be submitted to the Salem Materials Lab.
00940	Signs	Finished Signs – Inspected by the ODOT Materials Lab	02910				F	The Materials Lab will mark signs with an ODOT sticker.
		Finished Signs – <u>Signs</u> inspected by PM in the field.	02910		T,Q		F	If signs <u>do not</u> have an ODOT Inspection Sticker, contact ODOT Milwaukie Materials Lab (503-653-3083) for inspection process and ODOT Sticker.
		Reflective Sheeting	02910.20 - 2910.60 SP02910.20		W		F	See QPL for Approved Products List, section 02910.20 ODOT has adopted new classifications of sheeting for contracts let after January 2006. See the special provisions section 02910.20.
		Hardware	02910.40		Q,O		F	"Q" is from hardware manufacturer.
00950	Removal and reinstallation of highway illumination and traffic signal installations	New materials	00950.10	See 00970 and 00990 in this guide.				
00960	Common Provisions for Hwy Illumination & Traffic Signals	Mast and Luminaire Arm Connector High-Strength Bolts and Nuts	00960.46 02520.30 02520.60	T	T,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. Sample and test according to 02560.60. The Materials Lab will perform appropriate inspection for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 503/653-3083 to coordinate.
		Stainless steel fasteners	002920		Q,E,O		F	"Q" is from hardware manufacturer. Fasteners must be Type 304 or 316 stainless steel.
		New Materials	00960.10	See 00970 and 00990 in this guide.				

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00970	Highway illumination	Equipment list and drawings	00970.03, 00960.02		E		BG	See Contract Documents.  "E"-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". The Project Manager will obtain and furnish to the Contractor copies of the most recent lists. "Q" and "F" requirements for products listed under this section are satisfied if the products are qualified on the "Submittals for Field Qualification".
		Reinforcement in foundations		See 00530 in this guide.				
		Metal conduit	02920.10, 02920.12		Q,E,O, BG		F, BG	"Q" is marked on conduit
		Non-metallic conduit	02920.11		Q,E, BG		F, BG	"Q" is marked on conduit
		Underground marking tape	00960.42(e)		BG		F, BG	
		Metal junction boxes	02920.13(a)		Q,E,O, BG		F, BG	"Q" is from manufacturer.
		Concrete junction boxes	02920.13(b) & (c)		Q,E, BG		F, BG	
		Direct burial cable	02920.22(a)		Q,E, BG		F, BG	"Q" is from manufacturer.
		Cable and Wire	02920.20-23		Q,E, BG		F, BG	"Q" is from manufacturer.
		Circuit Control Devices – circuit breakers, contactors, test switch, AC hour meters and photocontrol relays	02920.41		Q,E, BG		F, BG	"Q" is from manufacturer.
		Cabinets	02920.40		Q,E,O, BG		F, BG	"Q" is from manufacturer.
Wood poles	02920.30, 02120.10		T,Q		F	"T" is for preservative treatment. "Q" is for the grading certificate of lumber inspection.		

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		Metal poles	02920.31		Q,E,O		F	"Q" is from pole manufacturer and includes mill certificates on silicon content.
		Steel towers	02920.32		T,Q,EO		F	"T" is from steel manufacturer and "Q" is from tower manufacturer.
		Anchor bolts and nuts	02920.34, 02560.30	T,	T,Q,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. Sample and test according to 02560.60 – submit to the Salem Materials Lab.
		High-Strength Bolts and nuts	02560.20	T	T,Q,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. Sample and test according to 02560.60 – submit to the Salem Materials Lab.
		Frangible aluminum bases	02920.33		Q,E,O, BG		F, BG	"Q" is from base manufacturer and from fastener manufacturer. "O" is for fasteners.
		Ballasts	02920.52		Q,E, BG		F, BG	"Q" is from manufacturer.
		Luminaires	02920.53		Q,E, BG		F, BG	"Q" is from manufacturer.
		Lamps	02920.50		Q,E, BG		F, BG	"Q" is from manufacturer.
		Control equipment	02920.42		Q,E, BG		F, BG	"Q" is from manufacturer.
		Meter base	00960.49(a)		Q,E,O, BG		F, BG	"Q" is from manufacturer.
		Electrical splice materials	02920.25		Q,E, BG		F, BG	"Q" is from manufacturer.
00980	Sign illumination	Equipment Lists and drawings	00980.02, 00960.02		E		BG	See Contract Documents.  "E"-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". The Project Manager will obtain and furnish to the Contractor copies of the most recent lists. "Q" and "F" requirements for products listed under this section are satisfied if the products are qualified on the "Submittals for Field Qualification".

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		Metal conduit	02920.10, 02920.12		Q,E,O, BG		F, BG	"Q" is marked on conduit
		Non-metallic conduit	02920.11		Q,E, BG		F, BG	"Q" is marked on conduit
		Metal junction boxes	02920.13(a)		Q,E,O, BG		F, BG	"Q" is from manufacturer.
		Concrete junction boxes	02920.13(b) & (c)		Q,E,O, BG		F, BG	"O" is for the metal lids and fasteners.
		Direct burial cable	02920.22(a)		Q,E, BG		F, BG	"Q" is marked on cable
		Cable and Wire	02920..20-23		Q,E, BG		F, BG	"Q" is marked on wire
		Cabinets	02920.40		Q,E,O, BG		F, BG	"Q" is from manufacturer. "O" not required for aluminum.
		Wood poles	02920.30, 02120.10		T,Q		F	"T" is for preservative treatment. "Q" is for the grading certificate of lumber inspection.
		Ballasts	02920.52		Q,E, BG		F, BG	"Q" is from manufacturer.
		Lamps	02920.50		Q,E, BG		F, BG	"Q" is from manufacturer.
		Control equipment	02920.42		Q,E, BG		F, BG	"Q" is from manufacturer.
		Electrical splice materials	02920.25		Q,E, BG		F, BG	"Q" is from manufacturer.
00990	Traffic signals	Equipment list and drawings	00960.02		E		BG	"E"-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". The Project Manager will obtain and furnish to the Contractor copies of the most recent lists. "Q" and "F" requirements for products listed under this section are satisfied if the products are qualified on the "Submittals for Field Qualification".



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		Reinforcement in foundations		See 00530 in this guide.				
		Metal conduit	02920.10, 02920.12		Q,E,O, BG		F, BG	"Q" is marked on conduit
		Non-metallic conduit	02920.11		Q,E, BG		F, BG	"Q" is marked on conduit
		Underground marking tape	00960.42(e)		BG		F, BG	
		Metal junction boxes	02920.13(a)		Q,E,O, BG		F, BG	"Q" is from manufacturer.
		Concrete junction boxes	02920.13(b) & (c)		Q,E,O, BG		F, BG	"O" is for the metal lids and fasteners.
		Cable and Wire	02920.20-23		Q,E, BG		F, BG	"Q" is marked on wire.
		Direct burial cable	02920.22(a)		Q,E, BG		F, BG	"Q" is marked on cable
		Messenger, tether, and stabilizer cable	02920.22(b) & (c)		Q,E,O, BG		F, BG	"Q" is from manufacturer.
		Cabinets	02920.40		Q,E,O, BG		F, BG	"Q" is from manufacturer. "O" not required for aluminum.
		Wood poles	02920.30, 02120.10		T,Q		F	"T" is for preservative treatment. "Q" is for the grading certificate of lumber inspection.
		Metal poles and standards	02920.31		Q,E,O		F	"Q" is from pole manufacturer and includes mill certificates on silicon content.
		Anchor bolts and nuts	02920.34, 02560.30	T	T,Q,O	L	F	Sampling and test according to 02560.60 – submit to the Salem Materials Lab.
		High-Strength Bolts and nuts	02560.20	T	T,Q,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. Sample and test according to 02560.60 – submit to the Salem Materials Lab.
		Meter base	00960.49(a)		Q,E,O, BG		F, BG	"Q" is from manufacturer.
		Traffic signal lamps	02920.51		Q,E, BG		F, BG	"Q" is from manufacturer.
		Indication equipment	02920.60		Q,E, BG		F, BG	"Q" is from manufacturer.

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD	
				LAB	PM				
		Detection equipment	02920.45		Q,E, BG		F, BG	"Q" is from manufacturer.	
		Signs: Advance warning signs, Directional signs	00990.44(b), 00940	See 00940 in this Guide					
		Flashing beacon	00990.42(e)		Q,E, BG		F, BG	"Q" is from manufacturer.	
		Interior illuminated signs	02920.61		Q,E, BG		F, BG	"Q" is from manufacturer.	
		Control equipment	00990.70 and Contract Documents		Q,E, BG	Letter	F, BG	"Q" is from manufacturer. "Letter"-Appropriate inspection and testing will be performed by the Traffic Signal Service Unit.	
		Control Devices – Signal Controllers and Flasher mechanisms	02920.42		Q,E, BG		F, BG	"Q" is from manufacturer.	
		Loop Detectors	02920.23(b), 02920.43(b)		Q,E, BG		F, BG	"Q" is from manufacturer.	
		Loop Sealant	00990.43(b)		Q, W		F	Must be on the QPL. "W" is the implied one year warranty for the contract and is not a separate paper warranty issued specifically for this item.	
		Fire preemption	00990.46		Q,E,W, BG		F, BG	"Q" is from manufacturer. Must be on the QPL. "W" is the implied one year warranty for the contract and is not a separate paper warranty issued specifically for this item.	
01030	Seeding	Seed	01030.13		T		F	"T" is for all testing listed under section 01030.13 or as modified by the Special Provision. All testing must have been within 18 months of planting. Information is available on the tag of the seed bag.	
		Fertilizers	01030.14		Q		F	"Q" is from manufacturer.	
		Soil conditioners, amendments and bio-amendments	01030.12, 01040.15, 01040.16, 01040.17		Q		F	"Q" is from the manufacturer.	

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD
				LAB	PM			
		Mulch	01030.15		Q		F	Use hydromulch from the QPL. If straw mulch is specified it must be from an "Oregon Certified Seed" field. Seed lab test results from the seed harvested from the straw may be used for acceptance of the straw.
		Tackifier	01030.16		Q		F	"Q" is from the manufacturer.
		Topsoil – select (existing or ODOT owned source)	01030.11, 01040.130104 0.14(a)(c)		T		F	Test soils when required by special provision. Sample and test according to 01040.13. Contract documents will specify the source to use for select materials.
		Topsoil – imported	01040.14(b)			L	F	"L" is from ODOT Salem Materials Lab. The contractor selects which source to use.
01040	Planting	Plants	01040.19		Q		F	"Q" is the Department of Agriculture Nursery Shipping Certificate (Permit) and the shipping invoice containing the information specified in 01040.19(c)
		Soil conditioners, amendments and bio-amendments	01040.15, 01040.16, 01040.17		Q		F	"Q" is from the manufacturer.
		Sod Lawn	1040.19(h)(17) 01040.19(c)		Q		F	"Q" is the Department of Agriculture Nursery Shipping Certificate (Permit) and an FIR indicating compliance with 01040.19(h)(17). A "Q" indicating compliance to 01040.19(h)(17) from the turf farm is also acceptable. Along with an FIR for sod visual condition and placement requirements Either option requires a shipping invoice containing nursery name, grass variety, and quantity shipped.
		Mulch	01040.20				F	
		Grass straw mulch	01040.20(b)		T or Q,		F	"Q" Source is Oregon Certified Seed" field or "T" lab results of seed harvested from field.
		Tree grates	01040.23(f)		Q,O		F	"Q" is from the manufacturer
		Topsoil – select (existing or ODOT owned source)	01040.13, 01040.14(a)(c)		T		F	Test soils when required by special provision. Sample and test according to 01040.13. Contract documents will specify the source to use for select materials.

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD
				LAB	PM			
		Topsoil – imported	01040.14(b)			L	F	"L" is ODOT Salem Materials Lab. The contractor selects which source to use.
01050	Fences	Barbed Wire	03010.10		Q,O		F	Project Manager may submit samples to the Materials Lab for testing as follows: Barbed wire – 10m (30 ft.)
		Woven wire fabric	03010.20		Q,O		F	Woven wire fabric – 1m (3 ft.) by full height
		Chain link fabric, ties, and tension wire	03010.30		Q,O		F	Chain link fabric – 1m (3 ft.) by full height
		Metal fence posts, braces, and appurtenances	03010.50		Q,O		F	Metal posts – one of each type
		Treated wood posts and braces	02110.30		Q,T		F	"T" is for preservative treatment. "Q" is for the grading certificate of lumber inspection.
		Fence, gates, and hardware	03010.60		Q,O		F	"Q" is from the manufacturer.
		Slope Mat, and hardware	03010.70		Q,T,O		F	"T"- Needed for rock bolts.
01070	Mailbox supports	Supports	01070.12 - 01070.14		Q,O		F	"Q" is from mailbox support manufacturer if not listed in QPL.
01120	Irrigation systems	Materials list, as built plans	01120.10, 01120.70		E			
		Steel pipe and fittings	01120.11(a)		O		F	
		Other materials	01120.11 – 01120.21		Q		F	"Q" is from manufacturer.