

CITY OF PORTLAND
BUREAU OF ENVIRONMENTAL SERVICES
BUREAU OF TRANSPORTATION
PORTLAND WATER BUREAU

CONSTRUCTION PRODUCTS LIST

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This list is published as needed and is available from the Internet. Please notify the Supervisor, in the Construction Section of the Bureau of Transportation at the Portland Building, 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://www.portlandonline.com/transportation/>
UNDER "SERVICES TAB" CLICK > "CONSTRUCTION STANDARDS"
THEN CLICK > "CONSTRUCTION DOCUMENTS"
THEN CLICK > "CONSTRUCTION PRODUCTS LIST"

[Link to ODOT's QPL: "QUALIFIED PRODUCTS LIST" \(QPL\)](#)

[Link to CITY OF PORTLAND CPL: "CONSTRUCTION PRODUCTS LIST" \(CPL\)](#)

CONSTRUCTION PRODUCTS LIST
BUREAU OF ENVIRONMENTAL SERVICES - BUREAU OF TRANSPORTATION - PORTLAND WATER BUREAU

The **"CONSTRUCTION PRODUCTS LIST" (CPL)** is a list of products which have been evaluated and/or specifically used by the **City of Portland Bureau of Environmental Services, Bureau of Transportation, and the Portland Water Bureau.** (Click Blue Text)

The **"QUALIFIED PRODUCTS LIST" (QPL)** is a comprehensive list of products which have been evaluated and/or used by the **OREGON DEPARTMENT OF TRANSPORTATION (ODOT).** (Click Blue Text)

The CPL contains products specific to the City of Portland. The CPL and QPL are not identical. If the product you wish to use is **NOT listed on the CPL but IS listed on the ODOT QPL, you must submit the QPL information to the Engineer for product approval.**

The "CONSTRUCTION PRODUCTS LIST" is made up of three 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 which states existence on the Approved List and recognition of the product. No additional sampling or testing is needed.
3. The **REJECTED LIST – "R"** lists products not allowed for any use.

The use of all products is restricted to the category in which they are listed. Products should be used and installed as the manufacturer

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The **CPL Product Review Submittal Form** can be downloaded here: <http://www.portlandonline.com/transportation/index.cfm?c=40032> then click on "Construction Documents".

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

Send your CPL Product Review Form, test results, product data sheets and brochures to:

Portland Bureau of Transportation
1120 SW 5th Avenue Room 800
Portland OR 97204
Josh Huber, Phone: 503-823-7559
Email: Joshua.Huber@portlandoregon.gov



recommends. Use of this list by **City Maintenance** Personnel as an information resource is encouraged.

PBOT CONSTRUCTION PRODUCTS LIST BY SPEC

Category	Spec #	Category	Spec #
WORK ZONE TRAFFIC CONTROL	00220.00		
TEMPORARY BARRICADES AND PEDESTRIAN FENCING	00225.12		
TEMPORARY FENCES	00270.12		
ANTI-SKID COATING	00275.11		
GEOTEXTILE, SUBGRADE	00350.00		
GEOGRID, SUBGRADE	00350.00		
TREE GRATES	UNIQUE		
DETECTABLE WARNING DEVICES	00759.12		
POROUS PAVER	00760.00		
PAVEMENT MARKINGS, THERMOPLASTIC	00850.10		
MARKERS, TUBULAR SURFACE MOUNTED	00856.10		
CURB MARKINGS – PAINT	00861.00		
PAVEMENT MARKINGS – LEGENDS, BARS	00867.00		
SIGN SUPPORT FOOTINGS – BREAKAWAY	00920.11		
ROOT BARRIER	01040.23		
POURED JOINT SEALANT	02440.11		

Category	Spec #		

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.

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, Trailer Mounted Message Boards, Trailer Mounted AFAD's, Trailer Mounted Flagger Station Lighting etc.

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

FHWA Safety Websites:

Work Zone Devices: http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd/

Traffic Barriers, Barrier Terminals, Crash Cushions, and Bridge Railings:

http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/barriers/term_cush.cfm

NCHRP Report 350: http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/nchrp_350/

MASH: http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/policy_memo/memo112009/

Self Certification Category: http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/nchrp_350/catg1.cfm

FHWA Work zone Letter WZ-161:

http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/listing.cfm?code=workzone

POTABLE WATER SYSTEM MATERIALS

Water Bureau Materials Manual

As stated in City of Portland Standard Construction Specifications Section 00160.06; [A Materials List](#) of commercially available products that Portland Water Bureau (PWB) has evaluated and found suitable for specified use in construction is located on the PWB website shown below.

<http://www.portlandonline.com/water/index.cfm?c=29862>

For additional details concerning the PWB Materials Manual, contact the PWB Owner's Representative. The current version of the Materials List at the time of Bid Opening is the version in effect for the Project. A conditionally qualified product, Special Application Only product, or a product qualified for inclusion in a later edition of the Materials List may be used only if the Owner's Representative finds the product acceptable for use on the Project. Use of the listed products shall be restricted to the category of use for which they are listed. Unless otherwise specified, the Contractor shall install all products as recommended by the manufacturer. The Contractor shall replace qualified products not conforming to Specifications or not properly handled or installed at Contractor expense.

**CONSTRUCTION PRODUCTS LIST
BUREAU OF ENVIRONMENTAL SERVICES**

As stated in the City of Portland Standard Construction Specifications Section 00160.05, the Construction Products List (CPL) is a list of manufactured products available on the market (shelf items) that BES has evaluated and found suitable for specified use in construction.

The BES CPL is available at the following link:

<https://www.portlandoregon.gov/bes/71214>

The current version of the CPL at the time of Bid Opening is the version in effect for the Project.

The Engineer may approve for use a conditionally qualified product, or a product qualified for inclusion in a later edition of the CPL, if the Engineer finds the product acceptable for use on the Project. Use of listed products shall be restricted to the category of use for which they are listed.

The Contractor shall install all products as recommended by the manufacturer. The Contractor shall replace qualified products not conforming to Specifications or not properly handled or installed at the Contractor's expense.

Choosing a product from the CPL does not alleviate the Contractor from its responsibility to follow the requirements of the Contract. Use of all other products and 'or approved equal' products not included on the CPL requires a standard construction submittal for review and approval.

STANDARD SPEC NO.	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	ODOT PRODUCT NUMBER	CITY PRODUCT NUMBER	LIST	REMARK
00270.12	METAL PEDESTRIAN BARRICADE	BARRICADE – MODEL FX-7	FRIEDRICH'S CUSTOM MFG. 303 BUTTERWORTH ST. NEW ORLEANS, LA 70121 800-394-9294	1/19/10		P-0020	A	PRODUCT WILL NEED MODIFICATION TO INCLUDE KICK BOARDS
00270.12	METAL PEDESTRIAN BARRICADE	PEDESTRIAN BARRICADES	AMERICAN BARRICADE Co., INC. 173 NE COLUMBIA BLVD PORTLAND, OR 97211 503-285-6616	1/19/10		P-0021	A	PRODUCT WILL NEED MODIFICATION TO INCLUDE KICK BOARDS
00270.12	METAL PEDESTRIAN BARRICADE	PEDESTRIAN BARRICADES	NATIONAL BARRICADE Co., LLC 6518 RAVENNA AVE NE SEATTLE, WA 98115 206-523-4045	1/19/10		P-0022	A	PRODUCT WILL NEED MODIFICATION TO INCLUDE KICK BOARDS
00270.12	METAL PEDESTRIAN BARRICADE	CROWD CONTROL BIKE RACK BARRICADES (V-FOOT)	AMERICAN BARRICADE INC. 2141 S. DUPONT DR. ANAHEIM, CA 92306 714-634-2663	1/19/10		P-0023	A	PRODUCT WILL NEED MODIFICATION TO INCLUDE KICK BOARDS
00275.11	ANTI-SKID COATING	#222 SERIES FLOOR-GRIP ALKYD DECK COATING	FARWEST PAINT MANUFACTURING PO BOX 68726 TUKWILA WA 98168 CLARK LAMMERS, SALES REP 503/788-9747 CLARKLAMMERS@HOTMAIL.COM TOLL FREE: 800-933-8813 BRANCH MGR: DICK HARRINGTON WWW.FARWESTPAINT.COM	6/24/08		P-0006	A	USE LEAD-FREE ORANGE #229 OR SIMILAR COLOR
00275.11	ANTI-SKID COATING	CARBONYTE SKIDGUARD SURFACE SAFETY COATING	RAYNER PROTECTIVE MATERIALS INC 9390 ELDER CREEK ROAD SACRAMENTO CA 95829 DONNA COE CDOE@CARBONYTE.COM 916/762-6364 FAX: 916/381-2617 WWW.CARBONYTE.COM	6/24/08		P-0007	A	USE YELLOW OR ORANGE COLOR
00275.11	ANTI-SKID COATING	RHINO HYBRID 556 PART A - ISOCYANATE - RHINO HYBRID A231, PART #60129 PART B - RESIN - RHINO HYBRID 55D, PART #6002	RHINO LININGS USA, INC. 9151 REHCO ROAD SAN DIEGO CA 858/450-0441 -FAX: 858/450-6881 GREEN DIAMOND SAND PRODUCTS PO BOX D RIDDLE OR 97469 541/874-3111	1/6/09		P-0008	A	APPLY COARSE SAND UNIFORMLY BEFORE THE COATING CURES. USE SAND SIMILAR TO GREEN DIAMOND ABRASIVE PRODUCTS #1636, 1650, 2050 OR 3060. USE YELLOW OR ORANGE COLOR.
00275.11	ANTI-SKID COATING	3M SAFETY-WALK GENERAL PURPOSE SLIP-RESISTANT TREAD 630-B ID #70-0709-7564-7	SANDERSON SAFETY SUPPLY 503/238-5700	1/15/09		P-0009	A	USE SAFETY YELLOW COLOR IN 4 INCH WIDTH. SPACE THE TAPE NO FARTHER APART THAN A 4 INCH GAP.

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00275.11	ANTI-SKID COATING	DREW MASTIC HIGH BUILD NON-SKID EPOXY MASTIC 52YS505NS OR 52YS400NS	DREW PAINTS INC 503/227-6497	1/15/09		P-0010	A	APPLY NON-SKID COATING BETWEEN COATS OF EPOXY USING CRUSHED WALNUTS OR ALUMINUM OXIDE 16 TO 60 GRIT. USE YELLOW OR ORANGE COLOR.
00275.11	ANTI-SKID COATING	FIRMFOOT® WATER-REDUCIBLE EPOXY – SAFETY ORANGE NON-SKID – MAXIMUM NON-SKID GRIT COMPOUND	FORREST TECHNICAL COATINGS 1011 MCKINLEY STREET EUGENE, OREGON 97401 541.342.1821 (PORTLAND REP) RICH WAHNE – 503.502.3449	4/25/14		P-0031	A	SLIP RESISTANT EPOXY WITH GRIT. SPRAY OR ROLL ON. FOR USE ON WOOD, STEEL, CONCRETE AND OTHER SURFACES. LEAD FREE, VARIOUS COLORS AND QUANTITY.
00275.11	ANTI-SKID COATING	THERMION® SAFTRAX TH604 / TH605 / TH335	5813 NE MINDER RD. POULSBO, WA 98370 877-884-3428 WWW.THERMIONINC.COM	5/23/16		P-0032	Q	VERIFY TEST RESULTS FOR SPECIFIC APPLICATION AND USE. SUBMIT QUALITY COMPLIANCE CERTIFICATE
00350.00	GEOTEXTILE, SUBGRADE	PERMEATex WOVEN SUBGRADE GEOTEXTILE, MODEL 2200	NORTHWEST LININGS & GEOTEXTILE PRODUCTS, INC. 2100 77 TH AVE. SOUTH KENT, WA 98032 (253)872-0244 (800)729-6954 WWW.NORTHWESTLININGS.COM	5/23/16		P-0028	A	MEETS 02320-1 FOR USE AS SUBGRADE GEOTEXTILE
00350.00	GEOGRID, SUBGRADE	STRATABASE SB12	STRATA GLOBAL GEOSOLUTIONS 380 DAHLONEGA ROAD, SUITE 200 CUMMING, GA 30040, USA 1.800.680.7750 WWW.BXDIRECT.COM	5/23/16		P-0029	A	MEETS 02320.21 FOR USE AS SUBGRADE GEOGRID
00350.00	GEOGRID, SUBGRADE	TENSAR, BX1200	TENSAR INTERNATIONAL CORP MARK LALLY, NORTHWEST REGIONAL MGR 205 S 102ND ST. SEATTLE, WA 98168 206.419.8792	5/23/16		P-0030	A	MEETS 02320.21 FOR USE AS SUBGRADE GEOGRID
00470.19	TREE GRATES	ADA TREE GRATE SET PRODUCT NUMBER 00869205 TREE FRAME PRODUCT NUMBER 00869112 ADA REMOVABLE CENTER GRATE PRODUCT NUMBER 00865508	ANDERS JORGENSON OREGON BRANCH MANAGER EAST JORDAN IRON WORKS, INC. (503) 774-4144 FAX (503) 775-3263 CELL (503) 367-7925	9/19/08		P-0002	A	APPROVED FOR USE IN TREE WELLS WITH PAVERS

STANDARD SPEC NO.	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	ODOT PRODUCT NUMBER	CITY PRODUCT NUMBER	LIST	REMARK
00759.12	TDDWS – TRUNCATED DOME DETECTABLE WARNING DEVICE	ALL TDDWS	ALL TDDWS SEE: FEDERALSTANDARDCOLOR.COM	11/23/15				ONLY THESE COLOR PALETTES APPROVED FOR USE (OR SIMILAR TO): 13415 13655 13432 23538 13507 23655 13538 33538 13591 33655
00759.12	TDDWS – TRUNCATED DOME DETECTABLE WARNING DEVICE	TOPMARK DETECTABLE WARNING – ENNIS-FLINT	FLINT TRADING-LKF DIV OF FLINT LAURA JENSEN 336/475-6600 GARY BANTIN 208/870-8505	11/13/03	2866	P-0013	A	PREFORMED THERMOPLASTIC, ADHESIVE -APPLIED. FOR ASPHALT OR CONCRETE. TEMPORARY INSTALLATION ONLY
00759.12	TDDWS – TRUNCATED DOME DETECTABLE WARNING DEVICE	ARMOR-TILE CAST IN PLACE NON-REPLACEABLE, HERCULITE SERIES REPLACEABLE OR SURFACE APPLIED	ENGINEERED PLASTICS BRAD GRAHAM 425-766-6234 BRADG@ENGPLASTICS.COM	11/15/14	3858	P-0015	A	POLYMER COMPOSITE WITH FIBERGLASS REINFORCEMENT.
00759.12	TDDWS – TRUNCATED DOME DETECTABLE WARNING DEVICE	ADA SOLUTIONS CAST IN PLACE REPLACEABLE, CAST IN PLACE NON-REPLACEABLE OR SURFACE APPLIED	ADA SOLUTIONS 800/372-0519 LEX ZUBER (760) 881-6627	11/23/15	3582	P-0017	A	COLORFAST UV STABLE HOMOGENOUS GLASS AND CARBON COMPOSITE WITH FIBERGLASS
00759.12	TDDWS – TRUNCATED DOME DETECTABLE WARNING DEVICE	ACCESS TILE CAST IN PLACE REPLACEABLE OR SURFACE APPLIED	ACCESSTILE.COM BRAD GRAHAM 425-766-6234 BRADG@ENGPLASTICS.COM	5/22/17		P-0034, P-0035	A	POLYMER COMPOSITE
00759.12	TDDWS – TRUNCATED DOME DETECTABLE WARNING DEVICE	TUFTILE POLYMER OR CAST IRON REPLACEABLE	DON KIMBLE ADA COMPLIANCE MANAGER 1200 FLEX COURT, LAKE ZURICH, IL 60047 1-888-960-8897 WWW.TUFTILE.COM	8/10/15		P-0040	A	POLYMER OR CAST IRON
00760.00	POROUS PAVER	XERIPAVE PERVIOUS AGGREGATE PAVER	RON PUTZ XERIPAVE/ULTRABLOCK 800-377-3877 CELL: 360-518-4438	6/15/10		P-0019	A	ALSO ACCEPTABLE FOR USE IN TREE WELLS IN LIEU OF TREE GRATES
00850.10	THERMOPLASTIC, PAVEMENT MARKINGS	GEVEKO MARKINGS - OPTATRAC	Beau Brooks GEVEKO 770-847-9410 bbrooks@gevekomarkings.com www.geveko-markings.com	4/26/19		P-0044	A	INCLUDES ARROWS, SHAROWS, LEGENDS, LINES AND SYMBOLS

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00856.10	MARKERS, TUBULAR SURFACE MOUNTED PERMANENT	CITYPOST, SURFACE MOUNT	Pexco, LLC Davidson Traffic Control Products 3110 70th Avenue East Tacoma, WA 98424 USA Phone: 253-284-8000 Fax: 253-284-8080 Email: hwysales@pexco.com www.pexco.com/traffic	6/8/2017	5005	P-0043	A	WHITE OR YELLOW
00861.00	TRAFFIC PAINT CURB MARKINGS	INSL-X ALKYD TRAFFIC PAINT TP3424 - YELLOW	1-800-225-5554 OR WWW.INSL-X.COM	4/1/19		P-0025	A	CONCRETE OR ASPHALT SURFACE BRUSH, ROLLER, OR SPRAY TYPE: ALKYD, SATIN FINISH DRY, SURFACE TEMP > 50 DEGREES
00867.00	LEGEND MARKING TYPE "B-HS" PREFORMED HIGH SKID THERMOPLASTIC 125 MILS	PREMARK VIZIGRIP FLINT PRODUCT NO. 3826054000	FLINT TRADING-LKF DIV OF FLINT 336/475-6600 GARY BANTIN 208/870-8505	3/12/08		P-0001	A	USED FOR BIKE LANE CONFLICT ZONES AND BIKE BOX MARKINGS 2'X3' PANELS IN LIGHT GREEN #375
00867.00	TRANSVERSE MARKING METHOD "B" PREFORMED THERMOPLASTIC 125 MILS	FLAMETAPE	ENNIS PAINT INC JOHN STEFANI - 503-569-0332	2/24/10		P-0005	Q	
00867.00	TRANSVERSE MARKING TYPE "B-HS" HIGH SKID PREFORMED THERMOPLASTIC 125 MILS	PREMARK VIZIGRIP	FLINT TRADING-LKF DIV OF FLINT 336/475-6600 GARY BANTIN 208/870-8505	12/11/03	2474		Q	PREFORMED THERMOPLASTIC SIMILAR TO PREMARK PLUS BUT HAS ADDITIONAL SKID RESISTANT PARTICLES
00867.00	TRANSVERSE MARKING TYPE A - STANDARD - HOT Poured THERMOPLASTIC	PERMALINE 884029 PRIMERLESS - LEADED	ENNIS PAINT 800/331-8118	02/10/00	1778		Q	TEST DECK 2006 63 &64
00867.00	TRANSVERSE MARKING TYPE B STANDARD PREFORMED THERMOPLASTIC 125 MILS	HOTAPE	FLINT TRADING-LKE DIV OF FLINT 336/475-6600 GARY BANTIN 208/870-8505	08/10/06	703		Q	HEAT PAVEMENT PRIOR TO INSTALL
00867.00	TRANSVERSE MARKING TYPE B STANDARD PREFORMED THERMOPLASTIC 125 MILS	PREMARK PLUS	FLINT TRADING-LKE DIV OF FLINT 336/475-6600 GARY BANTIN 208/870-8505	07/08/04	2230		Q	DID GOOD ON ODOT TEST DECK 9/99 NAME CHANGED FROM OTD-3
00867.00	TRANSVERSE MARKING TYPE C- STANDARD COLD APPLIED PLASTIC FILM (TAPE)	3-M STAMARK 380I SERIES WHITE: 380I	3-M COMPANY TSSD 800/533-1380 SPENCER CANTWELL 541/390-1759	02/08/01	679		Q	18 MONTH WARRANTY- COMPLETE REPLACEMENT BY MANUFACTURER - NOT FOR TRANSVERSE MARKINGS
00867.00	LEGEND MARKING TYPE "E" PAINT SLIP RESISTANT (BIKE LANES)	HOTLINE FAST DRY LATEX TRAFFIC MARKING PAINT H&C SHARKGRIP SHARKGRIP SLIP-RESISTANT ADDITIVE	SHERWIN WILLIAMS 30 NE BROADWAY ST PORTLAND, OR 97232 503-288-6477 ELSTON HAYWOOD	3/5/13		P-0027	Q	USED FOR COLORED PAVEMENT IN BIKE LANES. COLOR MUST MATCH LIGHT GREEN #375 FROM PANTONE COLOR PALETTE. 16 OZ. SLIP-RESISTANT SHARKGRIP ADDITIVE / 5 GALLONS PAINT. NOTE: USE OF THIS PRODUCT REQUIRES APPROVAL FROM MAINTENANCE OPERATIONS

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00920.11	SIGN SUPPORT FOOTINGS BREAKAWAY (ROUND POST ONLY)	SURFACE MOUNTED BREAK-AWAY SIGN BASE SUPPORT - POST ANCHOR AND SOIL STABILIZER	SIGN SUPPORT SYSTEMS INC. SKIDRIL / 3SCORP PO Box 8041 GREENSBORO, NC 27419 ATTN: MARK SALMON 336-674-6690	4/12/2010		P-0018	A	SATISFIES NCHRP-350 SEE SPECIFICATION 00920.11 ROUND POST ONLY PER STANDARD DRAWING P-405
00920.11	SIGN SUPPORT FOOTINGS BREAKAWAY (ROUND POST ONLY)	SURFACE MOUNTED BREAK-AWAY SIGN BASE SUPPORT - DOME	SIGN SUPPORT SYSTEMS INC. SKIDRIL / 3SCORP PO Box 8041 GREENSBORO, NC 27419 ATTN: MARK SALMON 336-674-6690	4/12/2010		P-0018	A	SATISFIES NCHRP-350 SEE SPECIFICATION 00920.11 ROUND POST ONLY PER STANDARD DRAWING P-406
01040.23	ROOT BARRIER	DEEP ROOT TREE ROOT BARRIER (18" UNIVERSAL GUIDE UB 18-2)	DEEPROOT GREEN INFRASTRUCTURE (WWW.DEEPROOT.COM / 1-800-458- 7668) LOCAL SUPPLIERS: ACF WEST, INC JOHN DEERE LANDSCAPES EWING IRRIGATION PRODUCTS	3/26/12		P-0037	A	AVAILABLE SIZE (6-FOOT LENGTHS MINIMUM BY 12" TO 18" DEEP). NO SPECIAL TOOLS REQUIRED CAN BE INSTALLED ADJACENT TO AN EXISTING SIDEWALK. MADE OF POLYPROPYLENE WHICH WILL NOT DEGRADE OVER LIFE OF TREE
02440.11	POURED JOINT SEALANT	SIKAFLEX 1A	MASON'S SUPPLY CO PHONE 503-234-4321 2637 SE 12TH AVE PORTLAND, OR 97202	9/3/2013		P-0039	A	APPROVED FOR USE AS POURED JOINT SEANT FOR CONCRETE EXPANSION JOINTS IN SIDEWALK.
UNIQUE SP	TREE GRATES	ADA TREE GRATE SET PRODUCT NUMBER 00869205 TREE FRAME PRODUCT NUMBER 00869112 ADA REMOVABLE CENTER GRATE PRODUCT NUMBER 00865508	ANDERS JORGENSON OREGON BRANCH MANAGER EAST JORDAN IRON WORKS, INC. (503) 774-4144 FAX (503) 775-3263 CELL (503) 367-7925	9/19/08		P-0002	A	APPROVED FOR USE IN TREE WELLS WITH PAVERS
UNIQUE SP	TREE GRATES	OLYMPIC FOUNDRY ADA TREE GRATES STA-A WC STYLE W/REMOVABLE LOCKING CENTER RING	OLYMPIC FOUNDRY 6530 NE 42 ND AVENUE PORTLAND, OR 97218 SUE BARMON, REGIONAL SALES MGR 503-281-3381 FAX 503-284-5880 SUE.B@OLYMPICFOUNDRY.COM	1-19-17		P-0003	A	AVAILABLE IN VARIOUS SIZES WITH VARIOUS SIZE CENTER OPENINGS. CENTER RING IS REMOVABLE AND LOCKABLE

