

OREGON DEPARTMENT OF TRANSPORTATION
CONSTRUCTION SECTION

QUALIFIED PRODUCTS LIST

PUBLISHING DATE: JULY 2002



This list is published every six months and is available by calling
ODOT's Contractor Plans at 503-986-3720.

Please notify the New Products Coordinator, 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://www.odot.state.or.us/tsconstruction/>

QUALIFIED PRODUCTS LIST

OREGON DEPARTMENT OF TRANSPORTATION

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

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

1. The **QUALIFIED LIST** 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** is for commercially available products having a low consequence of failure. These products are only usable for appropriate applications. May Require a Field Inspection Report. State existence on the Approved List and recognition of the product. No additional sampling or testing is needed.

Products on the **REJECTED LIST** should not be used for that specific category. Common reasons for rejection are: inability to meet our specifications, or poor performance. It is possible that a product could be rejected for one category but qualified in another.

Specific questions regarding products on the un-published **CONDITIONAL LIST** can be answered by calling **503/986-3059**.

"Conditionally Approved" products need specific, prior approval for each project. Approval is given for one project at a time.

The use of all products is restricted to the category in which they are listed. Products should be used and installed as the manufacturer recommends. Use of this list by **ODOT Maintenance** Personnel as an information resource is encouraged.

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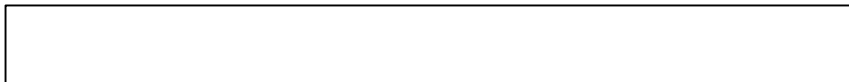
The "QPL" and submittal forms are accessible from the Internet:

<http://www.odot.state.or.us/tsconstruction/>

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

If you have questions, contact:

Oregon Department of Transportation
800 Airport Rd SE, Salem, OR 97301-4798
Mike Dunning, Phone: 503/986-3059
FAX: 503/986-3096



OREGON DEPARTMENT OF TRANSPORTATION

"QPL" INDEX BY CATEGORY TO GET SPECIFICATION NUMBERS

PAGE I

CATEGORY	SPEC #	CATEGORY	SPEC #	CATEGORY	SPEC #
ADMIXTURES, CONCRETE	02040.10	CONCRETE SEALER	02060.00	FLY ASH	02030.10
ANTI-GRAFFITI COATING - SIGNS	02910.70	CRACK INJECTION, EPOXY	02060.00	FORM TIE, NON-METALLIC	00540.44
ASPHALT COLD PATCH - HI PERFORMANC	00745.00	CRACK SEALER - EPOXY	02060.00	FRP BRIDGE STRENGTHENING	00565.00
BACKER ROD	02440.30	CRACK SEALER - METHACRYLATE	02060.00	GEOCELL (3-D CELLULAR)	00350.00
BARRICADE, TEMPORARY	00225.12	CURING COMPOUND, CONCRETE	02050.10	GEOTEXTILES, PAVING	00350.00
BARRIER MARKER, REFLECTIVE	02850.00	DAMP PROOFING, CLEAR	00597.11	GLARE SHIELDS	00822.00
BARRIER, CONCRETE	00820.00	DELINEATORS, FLEXIBLE	02850.30	GROUT, CABLE	02080.20
BARRIER, WATERFILLED, TEMP PLASTIC	00225.42	DELINEATORS, METAL	02850.10	GROUT, EPOXY	02080.10
BEARINGS, BRIDGE	00582.00	DETECTABLE WARNING DEVICES	00759.00	GROUT, KEYWAY	02080.30
BIRD SPIKES	00907.11	DRAINS, SLOTTED, PREFORMED	00445.00	GROUT, NON-EPOXY (NON SHRINK)	02080.20
BONDING AGENT, EPOXY	02070.10	ELASTOMERIC CONCRETE	02440.21	GUARDRAIL BLOCKS, PLASTIC	02110.20
BONDING AGENT, NON-EPOXY	02070.20	ELECTRONIC CUTTABLE FILM	02910.60	GUARDRAIL END TERMINAL	02820.00
BOX CULVERT, 3 SIDED	00455.00	EPOXY CONCRETE	02060.10	GUARDRAIL MEMBERS	02820.00
CEMENT, PORTLAND	02010.10	EPOXY SEALER	02060.00	HERBICIDES	01040.42
CHEMICAL DE-ICER	03200.00	EROSION CONTROL	00280.10	HIGHWAY EDGE DRAINS	02410.00
CHEMICAL DEMOLITION AGENT	00335.00	EXPANSION JOINTS, BRIDGE	02440.20	IMPACT ATTENUATOR, PERM.	02860.00
COATING FOR REBAR SPLICES	02510.11	FENCING, CHAIN LINK	03010.00	IMPACT ATTENUATOR, TEMP.	00225.12
COATING, FOR REBAR, EPOXY	02510.11	FENCING,WORKZONE DELINEATION	00225.12	IMPACT ATTENUATOR, TRUCK MTD	00225.12
CONCRETE ANCHOR, MECHANICAL	00535.10	FIRE PRE-EMPT DEVICE	00990.46	JOINT FORMER/SEALER	02440.10
CONCRETE ANCHOR, RESIN	00535.10	FLAGGER STOP/SLOW PADDLE	00225.27	JUNCTION BOXES	02920.13

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CATEGORY	SPEC#	CATEGORY	SPEC#	CATEGORY	SPEC#
LATEX EMULSION PAINT	02210.30	PCC PATCHING, VERTICAL	02010.10	SIGN SHEETING, ENCLOSED	02910.20
LATEX MODIFIER FOR PCC	02030.30	PCMS / PVMS - CHANGEABLE MESSAGE SIGN	00225.16	SIGN SHEETING, ROLL-UP	00225.11
LED - TRAFFIC SIGNALS	02910.51	PILE TIPS	00520.00	SIGN SHEETING, WIDE ANGLE	02910.31
LEGEND, MARKINGS	00850.00	PIPE, CONCRETE	02410.00	SIGN SUBSTRATE	02910.10
LOOP DETECTOR, PRE-FORMED	02920.23	PIPE, POLYETHYLENE (STORM, CULVERT)	02410.60	SIGN SUPPORTS, PORTABLE	00225.11
LOOP SEALANTS, TRAFFIC	00990.43	PIPE, POLYMER COATINGS FOR METAL PIPE	02420.20	SIGN SUPPORTS, SQUARE TUBE	00930.00
LUBRICANTS FOR GALV FASTENERS	02560.70	PIPE, PVC (FOR STORM SEWER, ETC)	02410.70	SOIL STABILIZER, CHEMICAL	00350.00
MAILBOX SUPPORTS	01070.00	PLASTIC DRUMS, TEMPORARY	00225.13	SOIL STERILIZATION	03110.00
MANHOLE , SPECIAL (STORMWATER)	00470.00	POURED FILLER, HOT POURED	00746.00	STAIN FINISH FOR CONCRETE	00540.52
MANHOLE RISER RINGS	00470.00	POURED SEALANT, POLYSULFIDE	02440.12	TAPE, PERMANENT, STRIPING	00851.10
MANHOLE STEPS	02450.30	POURED SEALANT, POLYURETHANE	02440.13	TAPE, TEMPORARY	00225.13
MARKERS, TUBULAR AND CONICAL	00225.13	POURED SEALANT, SILICONE	02440.11	THIN OVERLAY FOR PCC	02010.20
MARKERS, TUBULAR, SURFACE MOUNTED	00225.13	RADIO MODEM	02920.44	TRAFFIC LINES, DURABLE	00862.10
MEMBRANE, WATERPROOFING	00591.00	RAILROAD CROSSINGS	00170.01	TRAFFIC PAINT, BEADS	02840.20
MOISTURE RETENTION FOR SOIL	03110.00	REBAR CHAIR	00530.41	TRAFFIC PAINT, STANDARD	02840.10
OVERHEIGHT VEHICLE WARNING	00225.16	REBAR MANUFACTURERS	00530.00	TRAFFIC SIGNAL, PORTABLE	00225.15
PAVEMENT MARKER ADHESIVE, BITUMINOUS	02840.61	REBAR SPLICE, MECHANICAL	00530.42	TRENCHLESS TECHNOLOGY	00445.00
PAVEMENT MARKER, FLEXIBLE	00225.13	SEQUENTIAL ARROW SIGN	00225.16	TRUCKBED COATING MATERIAL	00745.22
PAVEMENT MARKER, PERMANENT	02840.60	SIGN COVERS, TEMPORARY	00225.11	WATERPROOFING - CAP	00597.11
PCC PATCHING, RAPID & VERY RAPID SET	02010.10	SIGN SHEETING, ENCAPSULATED	02910.30	WOOD PRESERVATIVE, FIELD	02190.30

Traffic Control Devices

NOTICE

Beginning October 1, 1998, most contracts required applicable Traffic Control Devices (TCD) to conform with the National Cooperative Highway Research Program (NCHRP) Report 350, except for the following categories:

- Portable lighting supports,
- Portable sequential arrow signs,
- Portable changeable message signs, and
- Portable temporary traffic signals

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

Erosion Control

<u>Category</u>	<u>Remarks</u>	<u>Section</u>
Check Dams	Type 1 – Aggregate Type 2 – Straw Bale w/ Aggregate Weir Type 3 – Bio- Bags Type 4 – Sand Bag Type 5 - Prefabricated Check Dam System	00280.10B
Drainage Curbs		00280.10E
Flow Spreader		00280.10G
Inlet Protection	Type 1 – Sediment Fence Type 2 – Geotextile w/Aggregate Filter Type 3 – Catch Basin Insert Type 4 – Bio-Bag Type 5 – Masonry and Aggregate	00280.10H
Matting – Slope	Type A - Slopes 1:3 or flatter - Clay Soil Type B - Slopes 1:3 or flatter- Sandy Soil Type C - Slopes steeper than 1:3 - Clay Soil Type D - Slopes steeper than 1:3 - Sandy Soil	00280.10L
Matting – Flexible Channel Liner	Type E - Shear Stress Range 0 – 96 Pascals (0 –2 lbs/sq ft) Type F - Shear Stress Range 0 – 192 Pascals (0 –4 lbs/sq ft) Type G - Shear Stress Range 0 – 287 Pascals (0 –6 lbs/sq ft) Type H - Shear Stress Range 0 – 383 Pascals (0 –8 lbs/sq ft)	00280.10L
Mulches, Temporary	Organic Synthetic Tackifier Tackifier only	00280.10J

Erosion Control

<u>Category</u>	<u>Remarks</u>	<u>Section</u>
Outlet Filter	Type 1 – In Channel Type 2 – End of Pipe Type 3 – Flocculent	00280.10U
Plastic Sheeting		00280.10K
Sediment Barrier, Temporary	Type 1 – Straw Bale Type 2 – Bio- Bags Type 3 – Straw Rolls Type 4 – Sand Bags Type 5 – Brush Barriers Type 6 – Filter Berm Type 7 – Pre-Fabricated Sediment Barrier Type 8 – In Water	00280.10N
Sediment Fence		00280.10O
Slope Drain, Temporary		00280.10Q
Soil Stabilizer – Dust Control	Organic Synthetic	00280.10F

Texas DOT Website for use with Matting:

<http://www.dot.state.tx.us/insdot/orgchart/cmd/erosion/contents.htm>

Durable Traffic Markings

Legend Markings

<u>Category</u>	<u>Applications</u>	<u>Section</u>
Type A	Liquid Hot Poured Thermoplastic with intermixed and top-dressed beads, 3.0 mm	00850.10
Type B	Preformed Fused Thermoplastic with intermixed beads, 3.2 mm	00850.10
Type C	Cold Applied Plastic Film (Tape), 1.5 mm	00850.10
Type D	Methyl Methacrylate with intermixed aggregate and intermixed and top-dressed beads 3.0 mm	00850.10

Permanent Pavement Striping Tape

<u>Applications</u>	<u>Section</u>
Permanent Pavement Striping Tape, Hot Laid	00851.10
Permanent Pavement Striping Tape, Grooved	00851.10
Permanent Pavement Striping Tape, Patterned, Hot Laid	00851.10
Permanent Pavement Striping Tape, Patterned, Grooved	00851.10

Traffic Line, Durable

<u>Category</u>	<u>Applications</u>	<u>Section</u>
Method A - Profiled	Methyl Methacrylate, (MMA) Profile, 2.3 mm w/ 12.7 mm bumps	00862.10
	Methyl Methacrylate, (MMA) Profile, 3.0 mm w/ 12.7 mm bumps	00862.10
	Thermoplastic, Profile, 2.3 mm w/ 12.7 mm bumps	00862.10
	Thermoplastic, Profile, 3.0 mm w/ 12.7 mm bumps	00862.10
Method B - Non-Profiled	Methyl Methacrylate, (MMA) Non-Profile 2.3 mm, Extruded	00862.10
	Methyl Methacrylate, (MMA) Non-Profile 3.0 mm, Extruded	00862.10
	Thermoplastic, Non-Profile 2.3 mm, Extruded	00862.10
	Thermoplastic, Non-Profile 3.0 mm, Extruded	00862.10
Method C - Inlaid	Methyl Methacrylate (MMA) 6.35 mm deep w/ 6.6 mm material	00862.10
Method D - Inverted Profile w/bump	Thermoplastic, Inverted Profile 4.1 mm, w/ 12.7 mm bumps	00862.10
Method E - Inverted Profile	Thermoplastic, Inverted Profile 4.1 mm	00862.10
Method F – Spray	Methyl Methacrylate (MMA) Spray 2.3 mm	00862.10
	Methyl Methacrylate (MMA) Spray 3.0 mm	00862.10
	Thermoplastic Spray 2.3 mm	00862.10
	Thermoplastic Spray 3.0 mm	00862.10
Method G – Inlaid, Inverted Profile w/bump Waffle	Thermoplastic, Inverted Profile 4.1 mm, w/ 12.7 mm bumps	00862.10 Special Provision Only

Notes: 1) Methyl Methacrylate is also known as MMA.

ODOT CONSTRUCTION/MATERIALS SECTION
 QUALIFIED PRODUCTS LIST
 APPROVED LIST - NO SAMPLES OR TESTS REQUIRED*
 QUALIFIED LIST - ADDITIONAL REQUIREMENTS**
 JULY 2002

STANDARD SPEC NO.	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	PRODUCT NUMBER	LIST	-----REMARKS-----
00170.01	RAILROAD CROSSINGS RUBBER	SUPER CUSHION	GOODYEAR TIRE AND RUBBER AKRON, OHIO 44309	05/01/88	952	Q	OR APPROVED EQUAL. WATCH SKID RESISTANCE.
00225.11	SIGN COVERS POLYPROPYLENE	SIGNSOCKS	SIGN SOCKS INC. 888/765-4769	02/10/00	1966	A	COVERS SIGN COMPLETELY. BETTER THAN MOST OF THE STUFF BEING USED SO FAR. NOT APPROVED FOR PERMANENT APPLICATIONS.
00225.11	SIGN SHEETING, ROLL-UP FLUORESCENT ORANGE	REFLEXITE - MARATHON	REFLEXITE CORP. 800/654-7570 REP: JOE RIEHL 916/739-6903.	11/16/00	1821	A	HELD UP WELL IN OUR TESTS. WAS VERY VISIBLE IN POOR LIGHT CONDITIONS. HANDLE CAREFULLY.
00225.11	SIGN SHEETING, ROLL-UP FOR ROLL-UP SIGNS FLUORESCENT DIAMOND GRADE ORANGE	3-M RS24 ROLLUP SHEETING	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	11/16/00	1705	A	HELD UP WELL IN OUR TESTS. WAS VERY VISIBLE IN POOR LIGHT CONDITIONS. HANDLE CAREFULLY.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	COMPACT FLEXING STAND C-102	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967	12/13/01	2183	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS ONLY.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	COMPACT FLEXING STAND C-202	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967	12/13/01	2182	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS. SAME AS C-942, BUT HAS GALV STEEL FRAME W/FIBERGLASS SPRNG
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	COMPACT FLEXING STAND C-942	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967	12/13/01	2181	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS. SAME AS C-202, BUT HAS ALUMIN FRAME WITH FIBERGLASS SPRING.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	INTERSTATE SIGN STAND X-501	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967	12/13/01	2180	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS ONLY. USES COIL SPRINGS. SAME AS X-551, BUT IS MADE OF ALUMINUM
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	INTERSTATE SIGN STAND X-551	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967 FORESS SIGN CO 541/928-5858	12/13/01	1817	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS ONLY. DO NOT USE WITH RIGID SIGNS OR THE RIGID SIGN BRACKETS.

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

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00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	LITTLE BUSTER	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	12/13/01	2251	A	TESTED AT 305MM ABOVE PAVEMENT
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PS-3000S	PACIFIC SAFETY SUPPLY JEFF PETERSON 503-364-5641	03/14/02	2219	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS. MEETS OUR SPECS
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	PS-3330S	PACIFIC SAFETY SUPPLY JEFF PETERSON 503-364-5641	03/14/02	2220	A	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS. MEETS OUR SPECS
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	SIGN-UP MS-2000X/I MINI STAND	SIGN-UP CORPORATION 800/659-6466	02/08/01	2285	A	TESTED AT 635 MM TO BOTTOM OF SIGN.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	SIGN-UP X-CELL SIGN STAND	SIGN-UP CORPORATION 800/659-6466	06/08/00	2286	A	MFG SHOWED CRASHWORTHINESS AND WIND STABILITY. TESTED AT 460 MM TO BOTTOM OF SIGN.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	TRAFFIX DEVICES SINGLE SPRING MODEL #22000 SPUH	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	03/14/02	2528	A	CRASH TESTED, AND MET OUR OTHER SPECS.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	TRAFFIX STAND	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	12/12/01	2311	A	TESTED AT 305 MM ABOVE THE PAVEMENT SURFACE.
00225.12	BARRICADE, DIRECTIONAL TEMPORARY	SAFETYCADE	WLI INDUSTRIES TOM BOYCE 708/932-4600	01/11/96	1423	A	COLLAPSIBLE LOCKING PLASTIC BARRICADE SYSTEM W/ ARROW. NCHRP 350 TESTED - OK.
00225.12	BARRICADE, TEMPORARY TYPE I	A-CADE MODEL # 100	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	05/11/00	2270	A	TYPE I BARRICADE. FHWA OK. REQUIRES 2.7 KG SAND BALLAST.

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00225.12	BARRICADE, TEMPORARY TYPE I & II	ECON PLASTIC FOLDING BARRICADE	TRAFFIX DEVICES 949/361-5663 CANTEL OF MEDFORD 541-773-2765 TRAFFIC SAFETY 800/547-8518 FORESS SIGN CO. 541/928-5858	02/04/02	1506	A	TESTED TO NCHRP 350.
00225.12	BARRICADE, TEMPORARY TYPE II	MULTI-PURPOSE BARRICADE #200	ROADMARKER CO. 800/331-2332	05/11/00	2237	A	TYPE II BARRICADE. APPROVED BY FHWA.
00225.12	BARRICADE, TEMPORARY TYPE II	SAFETYCADE	WLI INDUSTRIES TOM BOYCE 708/932-4600	01/11/96	1423	A	COLLAPSIBLE LOCKING PLASTIC BARRICADE SYSTEM. 2 TYPES: - TAPER AND TRANSITION - TANGENT (NCHRP 350-OK)
00225.12	BARRICADE, TEMPORARY TYPE II	UNIVERSAL PLASTIC BARRICADE	BENT MANUFACTURING 888/882-2368 OR 888/842-0600	03/09/00	2169	A	MEETS NCHRP 350 CAT 2. 940 MM HIGH, 610 MM WIDE, AND 11.4 KG.
00225.12	BARRICADE, TEMPORARY TYPE II	WAFFLE BOARD PLASTIC PANEL MODEL# "BW"	BENT MANUFACTURING 888/882-2368 OR 888/842-0600	07/13/00	2171	A	APPROVED BY FHWA TO NCHRP 350 CAT 2.
00225.12	BARRICADE, TEMPORARY TYPE II	WOOD & METAL LEG BARRICADE MODEL# "BP"	BENT MANUFACTURING 888/882-2368 OR 888/842-0600	03/09/00	2170	A	MEETS NCHRP 350 CAT 2. 940 MM HIGH, 600 & 914MM WIDE, 7.6 & 13.2 KG. HAS PLYWOOD BOARDS WITH METAL LEGS.
00225.12	BARRICADE, TEMPORARY TYPE III	3-RAIL BREAKAWAY BARRICADE MODEL # 15 BAB-4S	FLASHER HANDLING CORPORATION 800/451-9636	01/13/00	2161	A	MEETS NCHRP 350 CAT 2. LIGHT WEIGHT METAL OR PLASTIC RAIL.
00225.12	BARRICADE, TEMPORARY TYPE III	BENT TYPE III BARRICADE MODEL# BP3	BENT MANUFACTURING 888/882-2368 714/842-0600	11/10/99	2007	A	NCHRP 350 CAT 2 APPROVED. STEEL UPRIGHTS W/WOOD PANELS W/O SIGNS OR LIGHTS.
00225.12	BARRICADE, TEMPORARY TYPE III	DAVIDSON T3B BARRICADE	BUNZL EXTRUSION, TACOMA MIKE MADDEN 800/822-7528 TRAFFIC SAFETY 800/547-8518	07/13/00	2303	A	PLASTIC PANELS & UPRIGHTS, AND STEEL FEET.

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00225.12	BARRICADE, TEMPORARY TYPE III	EZ-UP TYPE III BARRICADE	CANTEL OF MEDFORD 541/773-2765	05/11/00	2241	A	SIMILAR TO BENT TYPE III UNIT. OK BY FHWA.
00225.12	BARRIER MARKER TEMPORARY	BARRIER MARKER, TEMPORARY		04/19/00		A	SEE SECTION 02850.00, BARRIER MARKERS.
00225.12	BARRIER MOUNTED REFLECTOR	GUARDRAIL MOUNTED REFLECTORS, TEMPORARY		04/19/00		A	SEE SECTION 02850.30, DELINEATORS, FLEXIBLE TYPE 4A, GUARDRAIL VERSION.
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	AMOCO HIVU BARRIER FENCING	AMOCO FABRICS AND FIBERS 404-956-9023 ACF WEST 800/878-5115 503/771-5115	03/13/92	829	A	PLASTIC FENCING. WORK ZONE DELINEATION. MUST HAVE GOOD SUPPORTS.
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	CARSONITE BARRICADE FENCE CBF-46	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY, DICK PARSONS 800/547-8518	10/01/89	273	A	THIS IS NOT RECYCLED. PLASTIC FENCE. WORK ZONE DELINEATION. MUST HAVE GOOD SUPPORTS.
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	NIGHTGUARD	CONWED PLASTICS 800/888-5933 2640 PATTON RD ROSEVILLE, MN 55113 DAVID CLARK 612/631-5724	10/10/91	778	A	REFLECTIVE FENCING-ORANGE 30 M X 100MM. PLASTIC WITH 3 REFLECTIVE BANDS.
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	NITE LITE	PLASTIC SAFETY SYSTEMS, INC. P.O BOX 20140 CLEVELAND, OH 44120-0140 BRUCE OWENS 800/662-6338	10/10/91	785	A	REFLECTIVE FENCING-ORANGE 15 M X 100 M ROLLS
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	NYLEX BARRIER MESH	SANDERSON SAFETY SUPPLY CO 1101 SE THIRD AVE PORTLAND, OR 97214 800/452-9955	10/01/89	272	A	THIS IS NOT RECYCLED. PLASTIC FENCE. WORK ZONE DELINEATION. MUST HAVE GOOD SUPPORTS.
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	POLY FENCE	WESTPEAK INTERNATIONAL 714/960-8691	06/08/95	1211	A	POLYOLEFIN FENCING MATERIAL. ORANGE IS THE BEST COLOR. MUST HAVE ADEQUATE SUPPORTS.

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00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	SCREENGARD	M. PUTTERMAN & CO.800/621-0146	05/11/95	1215	A	COATED POLYESTER FENCE. ORANGE AND YELLOW SEEM GOOD. MUST HAVE ADEQUATE SUPPORTS.
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	TENAX/ALPI SAFETY FENCE	TENAX CORPORATION 800/874-7437 REP: DAVE WRIGHT 503/232-3480 WHITE CAP 503/287-4151 KODIAK SUPPLY 800/332-7452	10/01/89	22	A	PLASTIC FENCE. WORK ZONE DELINEATION. MUST HAVE ADEQUATE SUPPORTS.
00225.12	FENCING, PEDESTRIAN WORKZONE DELINEATION	TENSAR SAFETY FENCE	TENSAR POLY. 800/292-4457 ACF WEST 800/878-5115 WHITE CAP 503/287-4151 KODIAK SUPPLY 800/332-7452	11/14/91	503	A	PLASTIC FENCE, 2 VERS REVIEWED MODELS UX 4250, AND BX 2051. WORK ZONE DELINEATION. MUST HAVE ADEQUATE SUPPORTS.
00225.12	GLARE SHIELDS TEMPORARY	GLARE SHIELDS, TEMPORARY		04/19/00		A	SEE SECTION 00822.00, GLARE SHIELDS.
00225.12	IMPACT ATTENUATOR, TEMPORARY NCHRP 350 TL-2 RE-DIRECTIVE, NON GATING	TRACC (TL-2)	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	10/11/01	1902	A	TESTED FOR IMPACT SPEEDS UP TO 70 KPH/45 MPH. 4.33 M LONG. 0.8 M WIDE.
00225.12	IMPACT ATTENUATOR, TEMPORARY NCHRP 350 TL-3 NON REDIRECTIVE	FITCH SAND FILLED MODULES LABELED AS "UNIVERSAL MODULE"	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	06/10/93	1028	A	STANDARD DRAWINGS RD940 & 945. TEMPORARY APPLICATIONS ONLY. TESTED FOR SPEEDS TO 100 KPH.
00225.12	IMPACT ATTENUATOR, TEMPORARY NCHRP 350 TL-3 NON-REDIRECTIVE	TRAFFIX DEVICES BIG SANDY	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	06/08/00	1850	A	STANDARD DRAWINGS RD940 & 945. TEMPORARY APPLICATIONS ONLY. TESTED FOR SPEEDS TO 100KPH.
00225.12	IMPACT ATTENUATOR, TEMPORARY NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	TRACC (TL-3)	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	11/10/99	1902	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. 6.4 M LONG. 0.8 M WIDE.
00225.12	IMPACT ATTENUATOR, TEMPORARY NCHRP 350 TL-3; GATING, NON DIRECTIVE	ENERGITE III	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	11/09/95	1297	A	STANDARD DRAWINGS RD940 & 945. TEMPORARY INSTALLATIONS ONLY. TESTED FOR SPEEDS TO 100 KPH.

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00225.12	IMPACT ATTENUATOR, TEMPORARY, NARROW APPS. NCHRP 350 TL-2, GATING IMPACT SPEEDS 70KPH/45MPH	ABSORB 350 TL-2	BARRIER WEST 707/374-6800	08/08/02	2336	A	FOR FRONT OF BARRIER AND QUICK CHANGE BARRIER. NON REDIRECTIV DON'T USE WITHIN 30M OF POND OR STREAM.
00225.12	IMPACT ATTENUATOR, TEMPORARY, NARROW SYSTEM NCHRP 350 TL-2	NEAT	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	09/14/95	1327	A	TESTED FOR IMPACT SPEEDS UP TO 70 KPH/45 MPH. THIS PRODUCT IS NON-REDIRECTIVE AND HAS ALUMINUM CARTRIDGES.
00225.12	IMPACT ATTENUATOR, TEMPORARY, NARROW SYSTEM NCHRP 350 TL-3	QUADGUARD CZ	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	04/09/98	1572	A	PERM. AND TEMP. INSTALLATIONS. RE DIRECTIVE AND NON-GATING. SIMILAR TO "GREAT". TESTED FOR IMPACT SPEED TO 100KPH/60MPH.
00225.12	IMPACT ATTENUATOR, TEMPORARY, NARROW SYSTEM NCHRP 350 TL-3	REACT 350	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	08/10/95	1364	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. REQUIRES 200MM THK 28 MPA CONCRETE SLAB FOR ANCHOR. REDIRECT/NONGATING
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 350 TL-2	ALPHA 70K	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	10/10/96	1549	A	TRUCK MTD. TESTED FOR IMPACT SPEEDS UP TO 70 KPH/45 MPH. FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 350 TL-3	MPS 350 III	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	05/08/97	1624	A	TRUCK MTD. TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. FOLLOW MANUFACTURER'S INSTRUC. UNIT IS ONLY 1219 MM WIDE.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 350 TL-3	SAFE-STOP	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	03/09/00	2200	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. FOLLOW MANUFACTURER'S INSTRUC.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 350 TL-3	SCORPION C-10,000	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	12/14/00	2313	A	USES A CRUSHABLE ALIMINUM STRUT WITH BACKUP STRUCTURE AND A CARTRIDGE ASSEMBLY. TOTAL LENGTH: 3560MM (140").
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 350 TL-3, GATING	ALPHA 100K TMA	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	02/12/98	1750	A	TRUCK MTD. TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. FOLLOW MANUFACTURER'S INSTRUCT FOR USE.

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00225.13	MARKERS, CONICAL TEMPORARY	GRABBER	TRAFFIX DEVICES TODD MELIN 949/361-9191 ROGER ALFREY 801/576-9191	06/08/95	1210	A	1.1 METER TALL, USE 7.25 KG BASE. STACKABLE. HANDLE ON TOP
00225.13	MARKERS, CONICAL TEMPORARY	GRABBER CONE 711 MM	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	11/14/96	1507	A	100 MM DIA. STACKABLE. THIS IS AN APPROVED CONICAL SHAPE. THE HEAVY 7.25KG BASE IS REQ. 711 MM TALL.
00225.13	MARKERS, TUBULAR TEMPORARY	BENT TUBULAR MARKER MODEL# D6-5	BENT MANUFACTURING 714/842-0600	05/01/88	1899	A	
00225.13	MARKERS, TUBULAR TEMPORARY	CANTEL TUBE	CANTEL INC 503/222-7490	10/01/88	249	A	
00225.13	MARKERS, TUBULAR TEMPORARY	GRABBER TUBE 711 MM	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	11/14/96	1505	A	100 MM DIA. NON STACKABLE. TUBULAR.
00225.13	MARKERS, TUBULAR TEMPORARY	NAVIGATOR TUBE	PLASTIC SAFETY SYSTEMS, INC. 800/662-6338 KALAMAZOO, MI 49008 616/344-5863 OR 216/231-8590	07/13/00	2239	A	TWO PIECE UNIT WITH HANDLE ON TOP.
00225.13	MARKERS, TUBULAR TEMPORARY	PORTABLE DELINEATORS	SCIENTIFIC DEVELOPMENTS, INC. 800.824.6853 VENDOR:TRAFFIC SAFETY SUPPLY DICK PARSON 800/547-8518	10/14/93	1021	A	UTILIZES 50% RECYCLED PLASTICS FOR TUBE AND 100% RECYCLED RUBBER BASE. SIMILAR TO OUR REGULAR TUBULAR MARKERS.
00225.13	MARKERS, TUBULAR TEMPORARY	T-TOP DELINEATOR POST MODEL DT7	BENT MANUFACTURING 888/882-2368 OR 888/842-0600	11/16/00	2299	A	APPROVED FOR LENGTHS ALLOWED IN THE SPECS.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	DURAPOST	LINE CONNECTION, 916/366-5752. CANTEL, INC. 503/222-7490.	06/08/00	1182	A	100% URETHANE PLASTIC, PIN AT BASE HOLDS TOP ON. PRODUCT IS 75 MM DIA.

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00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	SUPERDUCK	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY DICK PARSONS 800/547-8518	06/08/00	70	A	THE TUBES ARE REPLACEABLE AS IS THE REFLECTORIZED TAPE. CONFIRMED THAT IT MEETS OUR SPECS 6/2000.
00225.13	PAVEMENT MARKER, TEMPORARY	PAVEMENT MARKER, TEMPORARY		04/19/00		A	SEE SECTION 02840.60, PERMANENT PAVEMENT MARKERS.
00225.13	PAVEMENT MARKER, FLEXIBLE TEMPORARY	DAVIDSON CHIPSEAL/OVERLAY MARKER (TRPM OR TOM)	BUNZL EXTRUSION, TACOMA MIKE MADDEN 800/822-7528 TRAFFIC SAFETY 800/547-8518 (WAS DAVIDSON PLASTICS 1/01)	08/10/88	160	A	FOR PAVEMENT MARKING PRIOR TO PERMANENT STRIPING. WITH AND W/O CLEAR COVER. REMOVE COVER AFTER INSTALLATION.
00225.13	PLASTIC DRUMS TEMPORARY	FLEX-O-LITE 1500	FLEX-O-LITE 800/325-9525 CANTEL OF MEDFORD 541-773-2765 TRAFFIC SAFETY 800/547-8518 AMER. BARRICADE 503/285-6616	05/13/93	1023	A	LOW DENSITY TOP. HAS REFINED BASE MADE OF RECYCLED TIRES.
00225.13	PLASTIC DRUMS TEMPORARY	LIFEGARD CHANNELIZER LDPE	PLASTIC SAFETY SYSTEMS, INC. 800/662-6338 BRUCE OWENS	02/13/92	846	A	MEETS MUTCD REQ. USES RECYCLED TIRE FOR THE BASE. LO DENSITY. MANUFACTURER IS RECOMMENDING USING 2 BASES FOR HIGH SPEEDS.
00225.13	PLASTIC DRUMS TEMPORARY	SUPERDOME DRUM SD440	BENT MANUFACTURING 714/842-0600	12/10/98	1529	A	HEAVY BASE REQUIRED. MUTCD REQUIRES 50MM SPACING BETWEEN THE REFLECTIVE BANDS. THEY NEED ONE 150MM BAND TO DO THIS
00225.13	PLASTIC DRUMS TEMPORARY	TRAFFIX CHANNELIZER GEN IV MODEL 18000 LDPE	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	10/04/90	419	A	ONLY LOW DENSITY VERSION OF DRUM IS ALLOWED. USES SAND BAGS OR CUT TIRE. DENSITY STAMPED ON BARREL.
00225.13	PLASTIC DRUMS TEMPORARY	TRAFFIX CHANNELIZER GEN V MODEL 18000 LDPE	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	10/04/90	568	A	DRUM IS LOW DENSITY, AS WE WANT BUT HIGH DENSITY IS AVAILABLE SAND FILL BASE. SUPPLIER STAMPS DENSITY ON BARREL.
00225.13	REFLECTIVE SHEETING FOR TEMPORARY DRUMS	HI IMPACT CHANNELIZER TAPE	REFLEXITE CORP 916/739-6903	12/09/99	1748	A	

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00225.13	REFLECTIVE SHEETING FOR TUBULAR MARKERS	REFLEXITE CONFORMALITE	REFLEXITE COPR 916/739-6903	12/09/99	1747	A	
00225.13	TAPE, TEMPORARY NON REMOVABLE	3-M 5160 CONSTRUCTION GRADE TAPE	3-M COMPANY 800/962-6217 TRAFFIC CONTROL 800/553-1380 CATHY ARDANAZ 503/612-6718	04/10/97	1329	A	FOIL BACKED. GENERALLY NOT REMOVABLE. GOOD FOR SHORT TERM APPLICATIONS.
00225.13	TAPE, TEMPORARY NON-REMOVABLE	FLEX-O-LINE (WET REFLECTIVE) CATALOG #300	FLEX-O-LITE 800/325-9525 CANTEL OF MEDFORD 541-773-2765 TRAFFIC SAFETY 800/547-8518 AMER. BARRICADE 503/285-6616	08/10/88	1162	A	EVALUATED ON PAVEMENT MARKING TEST PROJECT, SALEM PARKWAY 100MM X 45 METERS. LARGE BEADS THAN FLEX-O-LINE #200.
00225.13	TAPE, TEMPORARY NON-REMOVABLE	FLEX-O-LINE 200 (CONSTRUCTION GRADE)	FLEX-O-LITE 800/325-9525 CANTEL OF MEDFORD 541-773-2765 TRAFFIC SAFETY 800/547-8518 AMER. BARRICADE 503/285-6616	08/10/88	80	A	EVALUATED ON PAVEMENT MARKING TEST PROJECT, SALEM PARKWAY 100 MM X 90 METERS FOIL BACKED. MUST BE DRY!
00225.13	TAPE, TEMPORARY REMOVABLE	3-M A620/A621	3-M COMPANY 800/962-6217 TRAFFIC CONTROL 800/553-1380 CATHY ARDANAZ 503/612-6718	03/14/96	1168	A	HAS GLASS BEADS. PRECOATED WITH PRESSURE SENS. ADHESIVE FOR APPL. WITHOUT USE OF HEAT, SOLVENTS OR PRIMER
00225.16	OVERHEIGHT VEHICLE WARNER	TRIGG VEHICLE DETECTION & WARNING	TRIGG VEHICLE DET. & WARNING REP. H. ED TRIGG 345 WREXHAM COURT HAMPTON, VA 23669	10/12/95	1362	A	THIS IS A SINGLE OR DOUBLE BEAM WARNING DEVICE WITH AN AUDIBLE AND VISUAL WARNING. THE DOUBLE BEAM IS BETTER.
00225.16	PCMS / PVMS - TRUCK LED 2 OR 3 MODULE-LINES OK.	ADDCO BRICK MODEL TM4300HHD & TM4200HHD	ADDCO 651/488-8600 DAVID BERKMAN 206/542-4624 TRAFFIC SAFETY 800/547-8518	09/09/99	1824	A	PANELS, 4 LEDS PER PIXEL. TRAILER VERSION DID NOT PASS THE ON-SITE REVIEW, IT WAS HARDER TO READ THAN THE TRUCK.
00225.16	PCMS / PVMS - TRAILER HYBRID - SOLAR	GUARDIAN TRILUX-4 PCMS	3-M COMPANY DAN SKITES 800/727-9111 CATHY ARDANAZ 800/962-6217 (WAS AMERICAN ELECTRONIC 1/01)	07/11/96	1553	A	FLIP DISC AND LEDS.
00225.16	PCMS / PVMS - TRAILER LED - SOLAR	ADDCO DH1000 ALS-ODOT	ADDCO 651/488-8600 DAVID BERKMAN 206/542-4624 TRAFFIC SAFETY 800/547-8518	11/16/00	1649	A	ALL LED-SOLAR/BATTERY POWERED UNIT. 4 LEDS PER PIXEL. DEMO: MARCH 13, 2000

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00225.16	PCMS / PVMS - TRAILER LED - SOLAR	ADDCO DH1000 SLD LED DOT	ADDCO 651/488-8600 DAVID BERKMAN 206/542-4624 TRAFFIC SAFETY 800/547-8518	07/11/96	1180	A	SIMILAR TO ADDCO'S DOT-SIGN. FLUORESCENT FLIP DISCS W/LEDS. 16-6 VOLT BATTERIES, 6-75 WATT PANELS. DEMO 3-14-00 - FAILED.
00225.16	PCMS / PVMS - TRAILER LED - SOLAR	AMSIG CMS T331	AMERICAN SIGNAL 770/448-6650 BILL PARISEN 702/395-5933 NATIONAL BARRICADE CO. 206/523-4045	07/11/96	1554	A	DIESEL VERSION IS NOT ALLOWED AFTER 1/1/2002
00225.16	PCMS / PVMS - TRAILER LED - SOLAR	SOLAR MESSAGE CENTER 1000	PRECISION SOLAR CONTROLS GWYN SIMS 972/278-0553	07/11/96	1101	A	CONSISTS OF L.E.D. MATRIX PANELS ABLE TO OPERATE 30 DAYS W/O SUN. OK ON 110 VOLTS.
00225.16	PCMS / PVMS - TRAILER LED - SOLAR	SUNRAY 340	US TRAFFIC / DISPLAY SOLUTIONS 800/733-7872 NELSON FLACK	12/12/96	1324	A	CAN OPERATE 18 TO 21 DAYS WITH OUT EXPOSURE TO SUNLIGHT. LED, SOLAR. DEMO ON 11/96-OK. SOME PROBLEMS LATER WITH UNITS
00225.16	PCMS / PVMS - TRAILER SOLAR - LED	SILENT MESSENGER MB4048-OR	SOLAR TECHNOLOGY, INC. BYRON ZERPHY 800/475-5442 BOB KENNETT 800/544-4939	05/11/00	2190	A	SOLAR POWERED PCMS W/3 LEDES PER PIXEL. PASSED DEMO ON 3-14-2000.
00225.16	PCMS / PVMS - TRUCK	ER 200 MESSAGE SIGN - TRUCK	NATIONAL SIGNAL, INC. BILL BREWER, 714/994-3880	11/12/98	1852	A	TRUCK MOUNTED 3 LINE LED DISPLAY
00225.16	PCMS / PVMS - TRUCK	LITEREREADER 1020	LITESYS INC. / INTELICOM, INC. PO BOX 239 BELGRADE MT 406/388-9317	08/13/98	1518	A	A TWO-LINE TRUCK-MOUNTED PVMS WITH PROGRAMMABLE LED MESSAGES
00225.16	PCMS / PVMS - TRUCK	WANCO WMRT-2	WANCO, INC. 800/972-0755	10/08/98	1853	A	TWO-LINE AMBER LED SIGN CONTROLLED BY IN-CAB COMPUTER PROGRAMED BY HAND-HELD CONTROLLER.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". HALOGEN/LED, SOLAR POWER	ECLIPSE 2200/SE APF	ALLMAND BROS 800/562-1373 WRIGHT-LANSDON CO 503/659-7635	01/13/00	1949	A	NEEDS 110 V POWER OPTION. BOTH LED AND HALOGEN NEED TO BE 590 NM (AMBER).

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00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED - SOLAR	ARO-LITE 100 WATT 25-M-100	NATIONAL SIGNAL, INC. BILL BREWER 888/994-0300 WES YOCKEY 503/324-7213	11/08/01	2246	A	LED - SOLAR POWER. 25 LIGHT VERSION. DEMO TEST-OK 10/17/01 MODEL # IMPORTANT TO VERIFY ON EACH PROJECT.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	AMIDA DLSE 25 LA	TEREX AMIDA 803/324-3011 FRED UNSWORTH 707/996-9650 FORESS SIGNS 541/928-5858	09/14/00	2304	A	OK FOR LEGIBILITY AT 1.6 KM.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	ARROWMASTER IV MODEL# WAAW 25SB	WORK AREA PROTECTION CORP. 800/327-4417 OR 708/377-9100	06/11/98	1571	A	LED - SOLAR POWER. 25 LIGHT VERSION.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	SILENT SENTINEL	SOLAR TECHNOLOGY, INC. BYRON ZERPHY 800/475-5442 BOB KENNETT 800/544-4939	01/14/93	932	A	SOLAR POWERED ARROWBOARD. IT WILL DO A CHEVRON AND APPEARS TO BE OK FOR OREGON'S CLIMATE. LED'S ADDED 11/97.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	SUN-UP SOLAR ARROW PANEL MODEL 100	NATIONAL SIGNAL, INC. 888/994-0300 DIST: CANTEL OF MEDFORD JOHN HUGHES, 541/773-2765	12/10/98	1801	A	UNIT IS SOLAR POWERED ELECTRONIC FLASHING ARROW.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	WANCO WTSP110-LSAC	WANCO, INC. 800/972-0755	11/16/00	2331	A	FIELD DEMO: 10/24/00 - OK FOR LEGIBILITY AT 1.6 KM. LED LENS.
00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	FLASHING STOP/SLOW PADDLE MODEL 336-3	DETRONICS GRAHAM-MIGLETZ ENTERPRISES SVEND DE BRUYN 905/640-1216	06/09/94	1204	A	MODEL TES 336. HAS 2 RECESSED CLEAR HALOGEN LIGHTS ON 'STOP' FACE, TOP/BOTTOM. TESTED BY THE PAVEMENTS CREW.
00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	LIGHTED FLAGGER SIGN #W000004	SAFETYTECH GARRY KILPATRICK 541/232-1464 TRAFFIC SAFETY SUPPLY DICK PARSONS 800/547-8518	02/10/00	2160	A	POLE SUPPORTED. TWO FLASHING WHITE LIGHTS ON THE STOP SIDE.
00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	STOP/SLOW FLASHING PADDLE J-SERIES ONLY	ACTION WEST 360/577-9150 1556 3RD AVE	11/10/94	1223	A	STANDARD PADDLE W/2 FLASHING WHITE STROBES. 2 D-CELLS. DESIGNED FOR 24 HOURS USE BETWEEN BATTERIES. HAND HELD.

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00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	STOP/SLOW PADDLE	COLUMBIA SAFETY SIGN CORP JOHN VALDEZ 360/225-7688 PO BOX 341 WOODLAND, WA 98674	06/09/94	1167	A	MEETS MUTCD REQUIREMENTS. TESTED BY PAVEMENTS CREW AND FOUND SUITABLE. BATTERY LIFE IS A CONCERN THO!
00225.27	FLAGGER STOP/SLOW PADDLE ROLL-UP, NON-FLASHING OCCASIONAL/EMERGENCY USE	FAN-A-SIGN MODEL MR18	SPORTNIKS, INC. 541/557-1555	04/11/02	2471	A	MARATHON SHEETING. MUST HAVE SNAP ON HANDLE TO BE SEMI- RIGID.
00225.27	FLAGGER STOP/SLOW PADDLE ROLL-UP, NON-FLASHING OCCASIONAL/EMERGENCY USE	STOP SLOW PADDLE DG, ROLL-UP	PACIFIC SAFETY SUPPLY 503/364-5641	04/13/00	1922	A	USES 3-M DIAMOND GRADE SHEETING. PASSED RETRO TESTS. BEST FOR OCCASIONAL USE, DURABILITY MAY BE A QUESTION.
00225.42	BARRIER, TEMP, PLASTIC WATER-FILLED NCHRP 350 TL-2	GUARDIAN SAFETY BARRIER TL-2	ARMORCAST PRODUCTS CO. 818/982-3600	05/14/98	1288	A	PRODUCT IS QUALIFIED FOR NCHRP 350 TL-2. WORKZONE SPEEDS OF 70 KPH OR LESS. USE WITH HWY PACKAGE.
00225.42	BARRIER, TEMP, PLASTIC WATER-FILLED NCHRP 350 TL-2	TRITON BARRIER	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	01/28/94	1156	A	TESTED BY MFG AND EVALUATED IN ACCORDANCE WITH NCHRP 350. USE EMPTY BARRIER AT END TO PROTEC. WKZONE SPEEDS OF 70KPH OR LESS
00280.10B	CHECK DAM, TYPE 3	GRABHORN BIO FILTER BAG	SACRAMENTO BAG CO 800/287-2247 BUSSARD EROSION CONTROL 800/252-2692	07/11/02	2430	A	
00280.10B	CHECK DAM, TYPE 4	WOVEN POLYPROPYLENE SANDBAG MODEL: PPB1426T1600	SACRAMENTO BAG CO 800/287-2247 BUSSARD EROSION CONTROL 800/252-2692	07/11/02	2429	A	
00280.10B	CHECK DAM, TYPE 5	TRIANGULAR SILT DIKE	TRIANGULAR SILT DIKE CO, INC. REP: JASON ROACH 405/741-7406 CSI GEOSYNTHETICS 800/426-7976	09/13/01	1592	A	GEOTEXTILE FABRIC AND URETHANE FOAM.
00280.10F	SOIL STABILIZER SYBTHETIC	ATLAS SOIL LOK	QUATTRO ENVIRONMENTAL 619/522-0044	11/08/01	2444	A	HAS BEEN SUCCESSFUL WHEN USED IN COMBINATION WITH MULCH AND SOIL CONDITIONER.

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00280.10F	SOIL STABILIZER TACKIFIER	ALPHA PLANTAGO	RECLAMARE COMPANY ED JOHNSON 206/824-2385	08/14/97	1578	A	ACCEPTABLE AS A TACKING AGENT. LONG TERM. STABILITY 3-5 MONTH ORGANIC.
00280.10F	SOIL STABILIZER TACKIFIER	FISCH-STIK	CHEMSTAR, INC. 800/328-5037 EMERALD SEED & SUPPLY 800/826-8873	11/12/98	1855	A	100% UNMODIFIED CORN STARCH. ORGANIC. SHORT TERM DURATION. RESTRICTIONS: DO NOT APPLY IN OR DIRECTLY ADJACENT TO WATER.
00280.10F	SOIL STABILIZER TACKIFIER	J-3000 GUAR	RECLAMARE COMPANY ED JOHNSON 206/824-2385	08/14/97	1577	A	ACCEPTABLE AS A TACKING AGENT. DURATION: LONG TERM 3-5 MONTHS ORGANIC. MAIN COMPONENT: GUAR.
00280.10F	SOIL STABILIZER TACKIFIER	J-TACK	RECLAMARE COMPANY 20727 7TH AVE. S. SEATTLE, WA 98198 206/824-2385	05/01/88	2132	A	MAIN COMPONENT: PLANT HYDROCOLLOIDS. ORGANIC. DURATION: SHORT TERM.
00280.10F	SOIL STABILIZER TACKIFIER	MARLOC	RECLAMARE COMPANY ED JOHNSON 206/824-2385	08/14/97	1580	A	MAIN COMPONENT: POLYMER. SYNTHETIC. DURATION: LONG TERM. EROSION CONTROL - TACKIFIER.
00280.10H	INLET PROTECTION	DANDY BAG	DANDY PRODUCTS, INC. REP:JULIE CHINN-NICHOLS 614/875-2284 KALAR CO. MR. LARRY POPE 206/242-3418	10/11/01	1597	A	TYPE 3. DESIGNED FOR 420 L/MIN VARIOUS SIZES AVAILABLE. NEEDS TO BE CHECKED REGULARLY OR AFTER A MAJOR RAIN EVENT.
00280.10H	INLET PROTECTION	GRABHORN BIO FILTER BAG	SACRAMENTO BAG CO 800/287-2247 BUSSARD EROSION CONTROL 800/252-2692	07/11/02	2430	A	TYPE 4.
00280.10H	INLET PROTECTION	GULLYWASHER CATCH BASIN FILTER SACK	AQUA TREATMENT SYSTEMS 800/208-5447 CSI GEOSYNTHETICS 800/426-7976	05/10/01	2172	A	TYPE 3. NEED TO MONITOR FOR CLOGGING.
00280.10H	INLET PROTECTION	HI-FLOW SILTSACK	ATLANTIC CONST. FABRICS INC. DAVID KELLEY 800/448-3636 ACF WEST, INC. DICK SCHMIDT 503/771-5115	09/13/01	1164	A	TYPE 3. DESIGNED FOR 760 L/MIN VARIOUS SIZES AVAILABLE. NEEDS TO BE CHECKED REGULARLY OR AFTER A MAJOR RAIN EVENT.

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00280.10H	INLET PROTECTION	STREAMGUARD	FOSS INTERNATIONAL AND INFRASTRUCTURE SERVICES CO. JOE SMITH 206/767-0441	10/11/01	1600	A	TYPE 3. DESIGNED FOR 455 L/MIN VARIOUS SIZES AVAILABLE. NEEDS TO BE CHECKED REGULARLY OR AFTER A MAJOR RAIN EVENT.
00280.10H	INLET PROTECTION	VERTI-PRO BY ALPINE	ALPINE STORMWATER MGT COMPANY 414/539-8240	11/10/99	1977	A	TYPE 3. DROP INLET AND GRATE INLET APPLICATIONS ONLY.
00280.10J	MULCHES, TEMPORARY	ADVANCED MAT FIBER	ADVANCED MAT FIBER BECKY GAUTHIER 800/976-2340	10/12/00	2158	A	50/50 WOOD MULCH - PAPER MULCH W/O TACKIFIER. ORGANIC.
00280.10J	MULCHES, TEMPORARY	ECOFIBRE HYDROSEEDING MULCH	FIBRE MULCHING INTERNATIONAL 800/426-6002 OR 425/277-9966	05/11/95	1307	A	MAIN COMPONENT: WOOD FIBER. ORGANIC. WITHOUT TACKIFIER.
00280.10J	MULCHES, TEMPORARY	ECOTAC HYDROSEEDING MULCH	FIBRE MULCHING INTERNATIONAL 800/426-6002 OR 425/277-9966	05/11/95	1308	A	MAIN COMPONENT: WOOD FIBER ORGANIC. WITH TACKIFIER. MULCH WITH 3% TACKIFIER. PLACE AT 224 GRAMS S/M.
00280.10J	MULCHES, TEMPORARY	GRASS MULCH	GRASS FIBER INC. 520 E. 2ND ST JUNCTION CITY, OR 97448	05/01/88	2131	A	MAIN COMPONENT:CELLULOSE FIBER ORGANIC. WITHOUT TACKIFIER.
00280.10J	MULCHES, TEMPORARY	NATURE'S OWN	HAMILTON MANUFACTURING, INC. TWIN FALLS, ID DEL BAILEY 800/777/9689	03/12/98	1727	A	MAIN COMPONENT: CELLULOSE FIBER - PAPER/WOOD. ORGANIC. W/O TACKIFIER. RECYCLED PAPER/WOOD FIBER.
00280.10J	MULCHES, TEMPORARY	R-2400	RECLAMARE COMPANY ED JOHNSON 206/824-2385	08/14/97	1579	A	MAIN COMPONENT: PSYLLIAM. DURABILITY: LONG TERM WILL LAST ABOUT 3-5 MONTHS. ORGANIC.
00280.10J	MULCHES, TEMPORARY	RE-FIBER CELLULOSE	WOOD RECYCLING INC. WOBURN, MA; 800/982-8732	01/08/98	1417	A	MAIN COMPONENT: WOOD ORGANIC. W/O TACKIFIER.

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00280.10J	MULCHES, TEMPORARY	RE-FIBER MIX	WOOD RECYCLING INC. WOBURN, MA; 800/982-8732	01/08/98	1420	A	MAIN COMPONENT: WOOD CELLULOSE FIBER MULCH. ORGANIC. WITHOUT TACKIFIER.
00280.10J	MULCHES, TEMPORARY	RE-FIBER MIX W/TACK	WOOD RECYCLING INC. WOBURN, MA; 800/982-8732	01/08/98	1421	A	MAIN COMPONENT:CELLULOSE FIBER ORGANIC. WITH TACKIFIER.
00280.10J	MULCHES, TEMPORARY	RE-FIBER WOOD	WOOD RECYCLING INC. WOBURN, MA; 800/982-8732	01/08/98	1418	A	MAIN COMPONENT:CELLULOSE FIBER ORGANIC. WITHOUT TACKIFIER.
00280.10J	MULCHES, TEMPORARY	RE-FIBER WOOD W/TACK	NORTH AMERICAN GREEN, INC. EVANSVILLE, IN; 812/687-6632 DIST: ACF WEST, PORTLAND OR 800/878-5115; 503/771-5115	01/08/98	1419	A	MAIN COMPONENT: WOOD FIBER. ORGANIC. WITH TACKIFIER. 100% BIODEGRADABLE. AVOID INHALATION OF DUST.
00280.10J	MULCHES, TEMPORARY	TACKIFIBERS	QUATTRO ENVIRONMENTAL 619/522-0044	04/11/02	2447	A	
00280.10J	MULCHES, TEMPORARY	TURBOMULCH 70% WOOD	WESTERN EXCELSIOR CO. ROBERT FISCHBACH, 888/376-2875 DIST.: EMERALD SEED & SUPPLY ARMAN KLUEHE, 503/254-8414	06/08/00	1804	A	WOOD FIBER, ORGANIC. W/O TACKIFIER. BIODEGRADABLE. 70% WOOD, 30% PAPER W/DYE.
00280.10J	MULCHES, TEMPORARY ORGANIC	FERTI-FIBERS NUTRIMULCH	QUATTRO ENVIRONMENTAL 619/522-0044	11/08/01	2443	A	EFFECTIVE WHEN USED WITH TACKIFIER, SOIL CONDITIONERS, AND SOIL STABILIZERS.
00280.10J	MULCHES, TEMPORARY TACKIFIER ONLY	CLIFFHANGER TACK	QUATTRO ENVIRONMENTAL 619/522-0044	04/11/02	2446	A	
00280.10L	MATTING FLEXIBLE CHANNEL LINER	BONTERRA AMERICA C2	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/08/01	1187	A	TYPES E,F.

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00280.10L	MATTING FLEXIBLE CHANNEL LINER	BONTERRA AMERICA SFB	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/08/01	1188	A	TYPES E,F,G.
00280.10L	MATTING FLEXIBLE CHANNEL LINER	BONTERRA AMERICA SFB12	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/08/01	1189	A	TYPES E,F,G.
00280.10L	MATTING FLEXIBLE CHANNEL LINER	NORTH AMERICAN GREEN C350	NORTH AMERICAN GREEN, INC. TIM LANCASTER 812/867-6632 ACF WEST DICK SCHMIDT 503/771-5115	07/10/97	1378	A	TYPES: E,F. TYPE E: 0-96 PASCALS. TYPE F: 0-192 PASCALS.
00280.10L	MATTING FLEXIBLE CHANNEL LINER	S150 STRAW MATS	NORTH AMERICAN GREEN EVANSVILLE, IN; 812/687-6632 ACF WEST 800/878-5115	03/15/98	297	A	TYPES: E,F. TYPE E: 0-96 PASCALS. TYPE F: 0-192 PASCALS.
00280.10L	MATTING - SLOPE	BONTERRA AMERICA CS2	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	02/08/01	1186	A	TYPES A,B,C,D.
00280.10L	MATTING - SLOPE	BONTERRA AMERICA S1	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	02/08/01	1184	A	TYPES: A,B.
00280.10L	MATTING - SLOPE	BONTERRA AMERICA S2	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	02/08/01	1185	A	TYPES: A,B,C,D.
00280.10L	MATTING - SLOPE	BONTERRA AMERICA SFB12	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/08/01	1189	A	TYPES A,C.
00280.10L	MATTING - SLOPE	ECOAEGIS	CANADIAN FOREST PRODUCTS 800/363-8873 FIBER MARKETING STEPH JONES 253/770-0368	07/13/00	1548	A	TYPES: A,B. BONDED FIBER MATRIX.

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00280.10L	MATTING - SLOPE	FUTURA EROSION CONTROL BLANKET	CONWED FIBERS - TURF DIVISION 888/933-7770 PROFESSIONAL TURF CENTER 503/245-2140 TIGARD	12/14/00	1689	A	TYPES: A,B,C,D. NON-WOVEN MULCH BLANKET, WOOD FIBERS, 100% BIODEGRADABLE.
00280.10L	MATTING - SLOPE	GEOJUTE	BELTON INDUSTRIES 800/225-4099 BOB MORAN ACF WEST 800/878-5115	10/11/01	2490	A	TYPES: A,C. WOVEN JUTE. BIODEGRADEABLE.
00280.10L	MATTING - SLOPE	NORTH AMERICAN GREEN S150BN	NORTH AMERICAN GREEN, INC. TIM LANCASTER 812/867-6632 ACF WEST DICK SCHMIDT 503/771-5115	07/10/97	1381	A	TYPE: A. STRAW FIBER COVERED WITH TWISTED PAPER YARN NETTING. 100% BIO-DEGRADABLE.
00280.10L	MATTING - SLOPE	NORTH AMERICAN GREEN S75BN	NORTH AMERICAN GREEN, INC. TIM LANCASTER 812/867-6632 ACF WEST DICK SCHMIDT 503/771-5115	07/10/97	1380	A	TYPE: A. STRAW FIBER COVERED WITH BIO- DEGRADABLE NETTING. 100% BIO-DEGRADABLE.
00280.10L	MATTING - SLOPE	NORTH AMERICAN GREEN SC150BN	NORTH AMERICAN GREEN, INC. TIM LANCASTER 812/867-6632 ACF WEST DICK SCHMIDT 503/771-5115	07/10/97	1379	A	TYPE: A. STRAW & COCONUT FIBER COVERED WITH BIO-DEGRADABLE NETTING. 100% BIO-DEGRADABLE.
00280.10L	MATTING - SLOPE	P300 STRAW MATS	NORTH AMERICAN GREEN EVANSVILLE, IN; 812/687-6632 ACF WEST 800/878-5115	03/15/89	1838	A	TYPE: A.
00280.10L	MATTING - SLOPE	S150 STRAW MATS	NORTH AMERICAN GREEN EVANSVILLE, IN; 812/687-6632 ACF WEST 800/878-5115	03/15/89	297	A	TYPES: A,B,C,D.
00280.10L	MATTING - SLOPE	S75 STRAW MATS	NORTH AMERICAN GREEN EVANSVILLE, IN; 812/687-6632 ACF WEST 800/878-5115	03/15/89	1835	A	TYPES: A,B,C
00280.10L	MATTING - SLOPE	SC150 STRAW MATS	NORTH AMERICAN GREEN EVANSVILLE, IN; 812/687-6632 ACF WEST 800/878-5115	03/15/98	1836	A	TYPES: A,B,C,D.

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00280.10L	MATTING - SLOPE	SCC225 STRAW MATS	NORTH AMERICAN GREEN EVANSVILLE, IN; 812/687-6632 ACF WEST 800/878-5115	03/15/89	1837	A	TYPE: A.
00280.10L	MATTING - SLOPE	SOIL GUARD	MAT, INC. 800/976-2340 (WAS WEYERHAEUSER UNTIL 12/99) BECKY GAUTHIER	11/09/95	1403	A	TYPES: A,B,C,D MADE OF FIR AND HEMLOCK. BONDED FIBER MATRIX.
00280.10N	SEDIMENT BARRIER, TEMP.	EARTHSAVER RICE STRAW WATTLES	RH DYCK 530/795-4751 BUSSARD EROSION 800/252-2692 CSI GEOSYNTHETICS 360/699-1426	07/11/02	2431	A	TYPE 3.
00280.10N	SEDIMENT BARRIER, TEMP.	ENVIRONMENTAL BARRICADE	BONAR PLASTICS 360/887-2230 ENVIRONMENTAL BARRICADES RICHARD STRIEFEL 800/656-1296	06/14/01	2401	A	TYPE 7.
00280.10N	SEDIMENT BARRIER, TEMP.	KEY TO GREEN STRAW WATTLES	CALIFORNIA STRAW WORKS 916/453-1456 HOBBS & HOPKINS 503/239-7518	09/13/01	1794	A	TYPE 3. DO NOT USE IN WATER. NOT RE-UESABLE. DO NOT USE FOR OVERLAND SHEET FLOW.
00280.10N	SEDIMENT BARRIER, TEMP.	TRIANGULAR SILT DIKE	TRIANGULAR SILT DIKE CO, INC. REP: JASON ROACH 405/741-7406 CSI GEOSYNTHETICS 800/426-7976	09/13/01	1592	A	TYPES 6 AND 7. DO NOT USE IN WATER. RE-UESABLE. SUITABLE SUBSTITUTION FOR SAND BAGS.
00280.10N	SEDIMENT BARRIER, TEMP.	WOVEN POLYPROPYLENE SANDBAG MODEL: PPB1426T1600	SACRAMENTO BAG CO 800/287-2247 BUSSARD EROSION CONTROL 800/252-2692	07/11/02	2429	A	TYPE 3.
00280.10Q	SLOPE DRAIN, TEMPORARY	TRIANGULAR SILT DIKE	TRIANGULAR SILT DIKE CO, INC. REP: JASON ROACH 405/741-7406 CSI GEOSYNTHETICS 800/426-7976	09/13/01	1592	A	APPEARS TO BE A SUITABLE SUBSTITUTE FOR STRAW BALES OR SAND BAGS.
00280.10U	OUTLET FILTER	DIRTBAG 55	AFC, INC. REP: DAVID KELLY 800/448-3636 DIST.: AFC WEST, INC. REP: MILISSA CHAPLA 503/771-5115	02/14/02	1886	A	THIS BAG IS 4572 MM BY 4572MM. AND TESTED TO 100 LB/IN. APPLICATION: DOWNSTREAM END OF PIPE.

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00280.10U	OUTLET FILTER	SEDIMAT	INDIAN VALLEY INDUSTRIES 800/659-5111 CSI GEOSYNTHETICS 800/426-7976	03/09/00	1924	A	FOR USE ON DOWNSTREAM END OF OUTLET END OF PIPE.
00335.00	CHEMICAL DEMOLITION AGENT	BRISTAR CHEMICAL DEMOLITION	ONODA CEMENT, VEND: DEMOLITION TECHNOLOGIES P.O. BOX 467 GREENVILLE, AL 36037 800/282-4384	10/04/90	244	A	DEMONSTRATIONS HAVE SHOWN THAT THIS WILL BE A SUITABLE SUB- STITUTE FOR BLASTING
00445.00	MISC OPTIONS	TRENCHLESS TECHNOLOGY	NO LIST AT THIS TIME.	01/25/01		Q	ODOT TRENCHLESS TECHNOLOGY EXPERT 503/986-3382 FOR INFOR- MATION ABOUT REHAB & REPLACE- MENT STORM SEWERS & CULVERTS.
00455.00	BOX CULVERT, 3 SIDED	3-SIDED BOX	UTILITY VAULT CO, AUBURN, WA REP: STEVE HEISTER 253/839-3508 UTILITY VAULT CO, WILSONVILLE, KELLY PATTERSON: 503/682-2844	05/09/91	646	Q	SHOULD BE REVIEWED BY BRIDGE. REQUIRES FOUNDATION. SHOULD NOT BE USED IF STREAM- BED IS SUSCEPTABLE TO EROSION.
00455.00	BOX CULVERT, 3 SIDED	CON/SPAN CULVERT SYSTEM	HYDRO CONDUIT CORP P.E. HUNOT 503/692-3885	11/04/88	298	Q	SHOULD BE REVIEWED BY BRIDGE. REQUIRES FOUNDATION. SHOULD NOT BE USED IF STREAM- BED IS SUSCEPTABLE TO EROSION.
00455.00	BOX CULVERT, 3 SIDED	CONTECH ALUMINUM BOX CULVERT	CONTECH CONSTRUCTION PRODUCTS 503/648-4123	04/12/01	2390	Q	REQUIRES BRIDGE SECTION REVIEW
00470.00	MANHOLE RISER RING	LADTECH HDPE M.H. RISER RING	LADTECH, INC., REDMOND, WA ROBERT GORDHAMMER 425/868-3930 DIST: UNITED PIPE & SUPPLY KEVIN FEAR 503/588-1250	09/10/98	1730	A	RECYCLED PLASTIC HDPE. MANUFACTURER SAYS PROD. MAKES MORTARLESS WATERTIGHT JOINTS. 2-YEAR WARRANTY, MTL. ONLY.
00470.00	MANHOLE RISER RING	WHIRLYGIG MANHOLE COLLAR	WHIRLYGIG COMPANY 800/307-4263	04/13/00	2156	A	CUSTOM TRIMMED THERMOPLASTIC CONCRETE FORM SYSTEM.
00470.00	MANHOLE, PLASTIC NON-TRAFFIC AREAS	HDPE MANHOLES	RHINO USA OF OREGON 541/267-4804 OR 541/347-7111 OR 503/588-5200	06/14/01	2208	A	HDPE POLYETHYLENE, TYPE III, CAT 3, CLASS B, PER ASTM D3350 FOR NON TRAFFIC AREAS ONLY.

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00520.00	PILE TIPS	PAH SERIES H-PILE POINTS HEAVY DUTY	PILING ACCESSORIES, INC. ERNIE TAYLOR 800/280-9950 704/821-9950 MATTHEWS, NC 28105	02/10/94	1061	A	WELDS TO END OF PILE. FOR DRIVING THRU EXTREMELY HARD CLAY LAYERS AND ROCK FORMATIONS.
00520.00	PILE TIPS	TUFFTIP H-776	DOUGHERTY FOUNDATION PRODUCTS PO BOX 688 FRANKLIN LAKES, NJ 07417 201/337-5748	12/01/89	2010	A	QUALIFIED BY BRIDGE SECTION 10", 12', 14"
00520.00	PILE TIPS	VB 310, VB 312, VB 314	VERSA-BITE INC. 800/678-8772	12/01/89	2012	A	QUALIFIED BY BRIDGE SECTION
00530.00	REBAR MANUFACTURER	BORDER STEEL - EL PASO, TX	BORDER STEEL EL PASO, TX 915/886-2000	08/05/98	1841	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER	CASCADE STEEL ROLLING MILLS	CASCADE STEEL ROLLING MILLS 800/283-2776 OR 503/222-6824	01/25/94	1111	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER	CF&I STEEL	CF&I STEEL, L.P. 800/992-9900	01/27/97	1621	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER	N.S. STEEL - ST. PAUL	NORTH STAR STEEL - IOWA 319/732-3231	01/27/97	1622	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER	N.S. STEEL - WILTON	NORTH STAR STEEL - MINNESOTA 612/731-5600	01/27/97	1623	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER	NORTH STAR STEEL - KINGMAN AZ	NORTHSTAR STEEL KINGMAN AZ DALE BUMGARDINER 520/718-7125	03/11/99	1908	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.

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00530.00	REBAR MANUFACTURER	NUCOR CORPORATION	NUCOR CORPORATION 800/428-9005 801/458-3691 800/677-1012	01/25/94	1112	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER	SALMON BAY STEEL	SALMON BAY STEEL DIV. OF BIRMINGHAM STEEL CORP. 800/677-1012 EXT 220	01/25/94	1113	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER	SEATTLE STEEL INC.	SEATTLE STEEL INC. DIV. OF BIRMINGHAM STEEL 800/677-1012 EXT 220	01/25/94	1114	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. NO LONGER PRODUCING.
00530.00	REBAR MANUFACTURER	TAMCO STEEL - RACHO CUCAMONGA	TAMCO STEEL RANCHO CUCAMONGA 909.899.0660	08/05/98	1842	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES.
00530.00	REBAR MANUFACTURER EPOXY COATED	WESTERN COATING, INC.	WESTERN COATING, INC. MIKE SOLOMON 541/688-2466	05/12/94	1115	A	SEE APPENDIX "A" AT END OF QPL FOR IDENTIFICATION PICTURES. STATUS WAS "I" ON 1/25/94.
00530.41	REBAR CHAIR	PARAGON REBAR CHAIRS	PARAGON PRODUCTS 800/776-0385	02/08/01	1955	A	FOR PCC PAVEMENTS ONLY, NOT FOR BRIDGES. USE WIDE SUPPORT BASES ON SOFT SURFACES.
00530.41	REBAR SPACER	CENTRALIGNER PIER SLED	PIERESEARCH 109 W RANDOL MILL RD, STE 104 ARLINGTON, TX 76011 REP: STANLEY AGEE 817/277-8566	12/09/93	964	A	PRECAST SPACERS WIRED TO REBAR CAGE TO MAINTAIN PROPER CLEARANCE BETWEEN THE REBAR AND THE WALL.
00530.41	REBAR SPACER	HIJACKER PIER BOLSTER	PIERESEARCH 109 W RANDOL MILL RD, STE 104 ARLINGTON, TX 76011 REP: STANLEY AGEE 817/277-8566	12/09/93	965	A	PRECAST PLATFORMS WIRED TO REBAR CAGES TO MAINTAIN CLEARANCE BETWEEN REBAR AND THE BOTTOM OF THE FORM OR HOLE
00530.42	SPLICE, BUTT, MECHANICAL	BAR GRIP	BARSPlice PRODUCTS INC 1300 GRANGE HALL ROAD BEAVER CREEK OH 45430 CAL BILLET 937/427-6466	10/04/90	544	Q	EACH INSTALLER/INTALLATION TO BE CERTIFIED, SEE SPECIALS. VENDOR CLAIMS 90% OF ULTIMATE. TEST PRIOR TO USE.

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00530.42	SPLICE, BUTT, MECHANICAL	BAR-LOCK (LONG)	BAR-LOCK (MBT) COUPLER SYSTEMS 800/755-4888 MATT CROSS BELLINGHAM, WA 98226 LARRY ANDRESEN 800/755-4888	08/12/93	1031	Q	USES LOCK SHEAR BOLTS IN COUPLER BARREL. MEETS 135% OF SPECIFIED YIELD. TEST SAMPLES ON EACH JOB.
00530.42	SPLICE, BUTT, MECHANICAL	BAR-LOCK S-CA	BAR-LOCK (MBT) COUPLER SYSTEMS 800/755-4888 MATT CROSS BELLINGHAM, WA 98226 LARRY ANDRESEN 800/755-4888	04/13/00	2234	Q	USES LOCK SHEAR BOLTS IN COUPLER BARREL. MEETS 135% OF SPECIFIED YIELD. TEST SAMPLES ON EACH JOB.
00530.42	SPLICE, BUTT, MECHANICAL	BARSPLICER	BARSPLICE PRODUCTS INC P.O. BOX 31308 DAYTON, OHIO 45341 CAL BILLIT 513/252-3456	09/10/98	1065	Q	TWO-PIECE THREADED MECHANICAL SPLICE. LAB NO.93-03568. MEETS ODOT REQUIREMENT OF 90% OF THE ULT. TENSILE STRENGTH.
00530.42	SPLICE, BUTT, MECHANICAL	CADWELD REBAR SPLICE	ERICO PRODUCTS INC. 440/248-0100	05/01/88	1355	Q	EACH INSTALLER/INSTALLATION TO BE CERTIFIED. SEE SPECIALS.
00530.42	SPLICE, BUTT, MECHANICAL	DB-SAE DOWEL IN PLACE THREADED	RICHMOND SCREW CO 817/284-4981 VENDOR: MASONS SUPPLY CO. 800/537-3407	12/10/92	575	Q	EACH INSTALLATION TO BE CERTIFIED. SEE SPECS. CLAIM IS FOR 100% OF ULTIMATE. ORIG C ON 2/14/91
00530.42	SPLICE, BUTT, MECHANICAL	DOWEL BAR REPLACEMENT THREADED	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASON'S SUPPLY, 800/537-3407 WHITE CAP 503/287-4151	07/15/88	305	Q	EACH INSTALLATION TO BE CERTIFIED. SEE SPECS. TO MEET 90% OF ULTIMATE, COUPLER MUST BE NEXT LARGER SIZE.
00530.42	SPLICE, BUTT, MECHANICAL	LENTON REBAR SPLICE THREADED	ERICO PRODUCTS INC. 440-248-0100	08/01/89	770	Q	EACH INSTALLATION TO BE CERTIFIED. SEE SPECS. TAPERED THREADS MAY REDUCE YIELD. CHECK SIZE NEEDED.
00530.42	SPLICE, BUTT, MECHANICAL	NMB SPLICE SLEEVE SYSTEM	SPLICE SLEEVE NORTH AMERICA 916/927-2935 OR 215/252-6400 909/937-7161	07/15/88	307	Q	EACH INSTALLER/INSTALLATION TO BE CERTIFIED. SEE SPECS. BUTT SPLICE FILLED W/SPECIAL GROUT CLAIM IS 125% OF YIELD.
00530.42	SPLICE, BUTT, MECHANICAL	NO-SLIP COUPLING	FOX HOWLETT INDUSTRIES 744 FOLGER AVE BERKLEY CA 94710 415/841-1016	05/01/88	1356	Q	EACH INSTALLER/INSTALLATION TO BE CERTIFIED. SEE SPECS.

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00530.42	SPLICE, BUTT, MECHANICAL BRIDGE APPLICATIONS	ZAP SCREWLOK	BARSPlice PRODUCTS INC P.O. BOX 31308 DAYTON, OHIO 45341 CAL BILLIT 513/252-3456	05/08/97	1628	Q	EA INSTALLAT'N TO BE CERTIF'D. TUBE WITH BREAKABLE SCREWS. "QUALIFIED" FOR BRIDGE WORK. "CONDITIONAL" FOR CRCP.
00530.42	SPLICE, LAP, MECHANICAL	QUICK WEDGE SIZES: #3 TO #6	ERICO PRODUCTS INC. 440/248-0100	02/14/91	610	Q	EACH INSTALLER/INSTALLATION TO BE CERTIFIED. SEE SPECS. PROMISES 125% YIELD FOR A615. TESTS SHOW 135% CONSISTENTLY.
00535.10	CONCRETE ANCHOR, MECH VERY LOW STRENGTH DYNAMIC LOADINGS	POWER BOLT EXPANSION ANCHOR	POWERS FASTENERS 206/933-6442 JIM SWINK 360/608-6845 SALES NORTHWEST 206/762-5812 MASONS SUPPLY 800/537-3407	10/12/00	1975	A	VERY LOW STRENGTH APPLICATIONS ALL USES MUST BE REVIEWED BY BRIDGE SECTION. NOT AN EQUAL TO LO STRENGTH. GALV/STAINLESS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	ACRYLIC TIE MMA	SIMPSON STRONG-TIE ROB CLAUSEN 630/543-2797 800-999-5099 WHITE CAP 503/287-4151	09/14/00	2265	A	HI STRENGTH APPLICATION OK. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	ANCHOR-IT HS 200 EPOXY	US ANCHOR; 877-527-6591 CLIFF WARREN 707/746-7420 ACME 800/255-9987 X-731	03/09/00	185	A	HI STRENGTH APPLICATION OK. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	COVERT CIA-GEL 7000 EPOXY	COVERT OPERATIONS, INC. LONG BEACH, CA 800/827-7229	09/14/00	724	A	HI STRENGTH APPLICATION OK. ALL USES MUST BE REVIEWED BY BRIDGE SECTION.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	EPCON ACRYLIC 7 MMA - ACRYLIC	ITW RAMSET / REDHEAD 800/899-7890	10/12/00	1631	A	APPROVED FOR HI STRENGTH USES. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	HI-TECH STRUCTURAL GEL STD SET EPOXY	UNITEX, KANSAS CITY, MO 64120 JERRY BYRNE, 816/231-7700 HI-TECH EPOXY SYSTEMS 503/650-4342	03/11/99	1827	A	PRODUCT IS SAME AS UNITEX PRO-POXY 300. READ SPECS. ALL USES MUST BE REVIEWED BY BRIDGE SECTION.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	HILTI HIT RE500 EPOXY	HILTI, INC. 800/879-6000 NISHAN PETHIYAGODA 800/727-3427 TOMMY WILSON 918/252-6512	01/10/02	2519	A	APPROVED FOR HI STRENGTH USES. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS!

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00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	HILTI HSE 2421 EPOXY	HILTI, INC. 800/879-6000 NISHAN PETHIYAGODA 800/727-3427 TOMMY WILSON 918/252-6512	08/12/99	1936	A	APPROVED FOR HI STRENGTH USES. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS!
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	HILTI HVA SYSTEM VINYL-ESTER	HILTI, INC. 800/879-6000 NISHAN PETHIYAGODA 800/727-3427 TOMMY WILSON 918/252-6512	10/10/91	422	A	APPROVED FOR HI STRENGTH USES. HVU - CAPSULES HAS - ANCHOR ROD READ SPECS!
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	HILTI HVU ADHESIVE VINYL-URETHANE METHACRYLATE	HILTI, INC. 800/879-6000 NISHAN PETHIYAGODA 800/727-3427 TOMMY WILSON 918/252-6512	01/14/99	1787	A	APPROVED FOR HI STRENGTH USES. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS!
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	HILTI HY-150 METHACRYLATE/CEMENT	HILTI, INC. 800/879-6000 NISHAN PETHIYAGODA 800/727-3427 TOMMY WILSON 918/252-6512	06/11/98	1788	A	APPROVED FOR HI STRENGTH USES. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS!
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	POWER-FAST EPOXY (WAS FOIL FAST)	POWERS FASTENERS 206/933-6442 JIM SWINK 360/608-6845 SALES NORTHWEST 206/762-5812 MASONS SUPPLY 800/537-3407	07/30/97	626	A	HI STRENGTH APPL. TO 25MM DIA. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	PRO-POXY 300 EPOXY	UNITEX, KANSAS CITY, MO 64120 JOHN GRISSINGER 800/821-5846 MASONS SUPPLY CO. 800/537-3407	06/11/92	854	A	HI STRNGTH APPL. TO 32 MM DIA ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	SIKADUR INJECTION GEL EPOXY	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	07/01/91	504	A	HI STRENGTH APPL. TO 25 MM DIA ALL USES MUST BE REVIEWED BY BRIDGE SECTION. MIX PROPERLY.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	SIMPSON SET EPOXY	SIMPSON STRONG-TIE INC. ROB CLAUSEN 425/413-6755 800/999-5099	11/16/00	1702	A	EPOXY, HIGH STRENGTH APPL. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	ULTRABOND 1 (WAS ULTRABOND AT) EPOXY	U.S. ANCHOR 877/527-6591 ACME 800/255-9987 X-731 CLIFF WARREN 707/746-7420	04/13/00	1285	A	HIGH STRENGTH APPLICATIONS. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.

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STANDARD SPEC NO.	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	PRODUCT NUMBER	LIST	-----REMARKS-----
00535.10	CONCRETE ANCHOR, RESIN LS HIGH STRENGTH THREADED ROD ONLY.	EPCON MAXIMA 7 MMA - ACRYLIC	ITW RAMSET / REDHEAD 800/899-7890	06/13/02	1939	A	THIS PRODUCT REQUIRES A CHISEL POINTED ROD TO BREAK UP THE GLASS CAPSULE, IT SHOULD NOT BE USED WITH REBAR.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	ACA POLYESTER	MOORE CONST. INC. 250 BARBER AVE WORCESTER, MASS. 01606 508/853-3991	07/01/91	104	A	LOW STRENGTH APPLICATION ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	BURKE EPOXY PISTOL PAK EPOXY	POLYGEM INC. 708/231-5600 WHITE CAP 503/287-4151	01/28/94	1255	A	LOW STRENGTH APPLICATION ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	CONCRETSIVE 1420	MASTER BUILDERS 800/227-3350 BRUCE JACKSON 722-4101 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	04/11/96	1498	A	SAME AS ANCHOR-IT HS200. LOW STRENGTH APPLICATION ONLY. BRIDGE MUST APPROVE, READ SPECS
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	EPCON CERAMIC 6 EPOXY	ITW RAMSET / REDHEAD 800/899-7890	09/09/99	293	A	LOW STRENGTH APPLICATION ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	EPCON GRANITE 5 EPOXY	ITW RAMSET / REDHEAD 800/899-7890	09/09/99	1322	A	LOW STRENGTH APPLICATION ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	HAMMER - CAPSULE EPOXY ACRYLATE	POWERS FASTENERS 206/933-6442 JIM SWINK 360/608-6845 SALES NORTHWEST 206/762-5812 MASONS SUPPLY 800/537-3407	01/10/02	2408	A	TWO PART ESTER BASED GLASS CAPSULES.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	HILTI HIT C-100 VINYL-ESTER	HILTI, INC. 800/879-6000 NISHAN PETHIYAGODA 800/727-3427 TOMMY WILSON 918/252-6512	07/01/91	423	A	WAS HIT C-10. LO STR APPS ONLY ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	LIQUID ROC 300 GROUT POUCH POLYESTER	MKT FASTENING 800/336-1640 NORTHCOAST MANUFACTURER AGENCY JOHN STONE 206/366-8980 WILLIAMS FORM 503/286-3647	07/01/91	66	A	LOW STRENGTH APPLICATION ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS. WAS OWNED BY GUNNEBO (1/2000)

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00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	LIQUID ROC 300 POLYESTER CAPS. POLYESTER	MKT FASTENING 800/336-1640 NORTHCOAST MANUFACTURER AGENCY JOHN STONE 206/366-8980 WILLIAMS FORM 503/286-3647	08/08/91	105	A	LOW STRENGTH APPLICATION ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS. WAS OWNED BY GUNNEBO (1/2000)
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	LIQUID ROC 300 POLYESTER PUMP POLYESTER	MKT FASTENING 800/336-1640 NORTHCOAST MANUFACTURER AGENCY JOHN STONE 206/366-8980 WILLIAMS FORM 503/286-3647	07/01/91	486	A	LOW STRENGTH APPLICATION ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS. WAS OWNED BY GUNNEBO (1/2000)
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	POLYBAC 1257-58 EPOXY	POLYGEM, INC. BILL BUSCHMAN 708/231-5600 WHITE CAP 503/287-4151	01/13/94	1090	A	LOW STR. APPLICATIONS ONLY. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	SIMPSON ET WAS POLY ALL PAC-24	SIMPSON STRONG-TIE ROB CLAUSEN 630/543-2797 800-999-5099 WHITE CAP 503/287-4151	04/08/93	1001	A	EPOXY, LOW STRENGTH APPL. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	SIMPSON ETF WAS POLY ALL PAC-12	SIMPSON STRONG-TIE INC. ROB CLAUSEN 425/413-6755 800-999-5099 WHITE CAP 503/287-4151	04/08/93	1000	A	EPOXY, LOW STRENGTH APPL. ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	ULTRABOND 2 (WAS ULTRABOND ET) EPOXY	U.S. ANCHOR 877/527-6591 CLIFF WARREN 707/746-7420 ACME 800/255-9987 X-731	03/09/95	1284	A	LOW STRENGTH APPLICATIONS ONLY ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	ULTRABOND 3 (WAS ULTRABOND QC) EPOXY	U.S. ANCHOR 877/527-6591 ACME 800/255-9987 X-731 CLIFF WARREN 707/746-7420	03/09/95	1286	A	LOW STRENGTH APPLICATIONS ONLY ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	ULTRABOND CA EPOXY	U.S. ANCHOR 877/527-6591 ACME 800/255-9987 X-731 CLIFF WARREN 707/746-7420	03/09/95	1287	A	LOW STRENGTH APPLICATIONS ONLY ALL USES MUST BE REVIEWED BY BRIDGE SECTION. READ SPECS.
00540.44	FORM TIE, NON-METALLIC	SUPERTIE FIBERGLASS FORM TIE	RJD INDUSTRIES, INC PO BOX 31294, GARDENA, CA 90247, 800/344-4753 WILLIAMS FORM 503/286-3647	03/01/89	405	A	QUALIFIED BY BRIDGE. ALTERNATE TO EXTRA CONCRETE COVER IN MARINE ENVIRONMENT (DUE TO CORROSION OF METAL SNAP TIES)

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00565.00	FRP BRIDGE STRENGTHENING	MBRACE CF 130 CFRP	MASTER BUILDERS INC. 800/628-9990	06/13/02	2613	Q	MET CALTRANS REQUIREMENTS.
00565.00	FRP BRIDGE STRENGTHENING	REPLARK CFRP FOR SHEAR	MITSUBISHI CHEMICAL CORP 212/274-0376	06/13/02	2610	Q	MET CALTRANS REQUIREMENTS.
00565.00	FRP BRIDGE STRENGTHENING	SCH 41 / TYFO CFRP	FYFE CO LLC 858/642-0694 EXT 13	06/13/02	2611	Q	MET CALTRANS REQUIREMENTS.
00565.00	FRP BRIDGE STRENGTHENING	SIKA CARBODUR CFRP	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	06/13/02	2612	Q	MET CALTRANS REQUIREMENTS.
00582.32	FABRIC PAD BEARING	SCOUGAL BRIDGE BEARING	SCOUGAL RUBBER CORPORATION 206/763-2650 SEATTLE, WA	02/13/97	1567	Q	APPROVED BY BRIDGE
00582.32	FABRIC PAD BEARINGS	ADDISON FABRIC PAD BEARING	ADDISON CORPORATION REP: JIM TYVAND 503/388-1329 PO BOX 6205 BEND, OR 97708	07/13/95	1068	Q	APPROVED BY BRIDGE, SUBJECT TO FINAL ACCEPTANCE AT THE TIME SHOP DRAWINGS ARE SUBMITTED FOR A CONSTRUCTION PROJECT.
00582.32	FABRIC PAD BEARINGS	ALERT LAMINATED FABRIC PAD	ALERT MANUFACTURING & SUPPLY 847/350-0460 DALTON ASSOCIATES E.TERRY DALTON 425/450-9462	07/01/89	322	Q	APPROVED BY BRIDGE SUBJECT TO INDEPENDENT LAB CERTIFICATION
00582.32	FABRIC PAD BEARINGS NON-GUIDED	COSMEC FABRIC PAD SL. BEARING	COSMEC, INC. WALPOLE, MA 508/668-6600	02/11/99	1884	Q	PRODCUT IS ONLY APPROVED FOR USE AS A NON-GUIDED BEARING.
00582.33	POT BEARINGS	ADDISON NON-GUIDED BEARINGS	ADDISON CORPORATION REP: JIM TYVAND 503/388-1329 PO BOX 6205 BEND, OR 97708	07/13/95	1007	Q	REQUIRES SHOP DRAWING SUBMITAL FOR EACH PROJECT.

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00582.33	POT BEARINGS	COSMEC POT BEARING	COSMEC, INC. 508/668-6600 BARRIE ATKINSON	12/10/92	500	Q	APPROVED BY BRIDGE
00582.33	POT BEARINGS	POT BEARINGS & SLIDERS	D.S. BROWN COMPANY 419/257-3561 OR 612/427-0717 MICHAEL MARTINO 480/892-3540	05/01/88	169	Q	APPROVED BY BRIDGE SUBJECT TO INDEPENDENT LAB CERTIFICATION
00582.33	POT BEARINGS	SAI/SPENCER POT BEARING	STRUCTURAL ACCESSORIES 203/589-8826 VEN: CHARLES WATT 206/783-8400	05/01/88	636	Q	APPROVED BY BRIDGE, SUBJECT TO INDEPENDENT LAB CERTIFICATION.
00582.34	SPHERICAL BEARINGS	LUBRITE HPF SPHERICAL BEARINGS	LUBRITE TECHNOLOGIES 781/871-1420	05/01/88	794	Q	APPROVED BY BRIDGE SUBJECT TO INDEPENDENT LAB CERTIFICATION
00582.34	SPHERICAL BEARINGS	TEXLON SPHERICAL BEARING	COSMEC, INC. 508/668-6600 BARRIE ATKINSON	12/10/92	960	Q	APPROVED BY BRIDGE
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	BITHUTHENE 5000	W.R. GRACE & CO. 206/575-9577 CHUCK LANDER 425/747-7737 WHITE CAP 503/287-4151	05/01/88	1431	A	RUBBERIZED ASPHALT AND MESH NO MORE THAN 4% SLOPE ROLLED WOVEN POLYPROPYLENE. RUBBERIZED ASPHALT.
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	BONI FIBERS FIBER ASP CONC (TYPE B FIBERS)	KAPEJO, INC. P.O. BOX 649 NEW CASTLE, DE 19720-0649 800/342-3717	05/01/88	681	A	POLYESTER FIBER ASPHALT CONCRETE SYSTEM AS DIRECTED IN STANDARD SPECIFICATIONS
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	CIM 1000 COMMERCIAL INDUSTRIAL MEMBRANE	CIM INDUSTRIES, INC. MFG: 800/543-3458 LOCAL REP: CHRIS COOK, SPECIAL ASPHALT PRODUCTS 503/295-6490	05/01/88	1432	A	NO MORE THAN 8% SLOPE WAS CHEVRON INDUSTRIAL MEMBRANE BY CHEVRON (1/93) LIQUID MEMBRANE - NO FABRIC.
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	JIFFY SEAL 400	PROTECTO WRAP CO. 2255 SOUTH DELAWARE ST. DENVER COLORADO 80223 303/777-3001	05/01/88	1433	A	MODIFIED COAL TARS, MIXED WITH SYNTHETIC RESINS AND REINFORCED W/FIBROUS MATERIAL. ROLLED, COMES IN A BOX.

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00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	PETROTAC	AMOCO FABRICS AND FIBERS 770/956-9025 ACF WEST 800/878-5115	02/01/89	91	A	A FACTORY LAMINATED SHEET OF RUBBERIZED ASPHALT REINFORCED WITH FABRIC. NO MORE THAN 5% SLOPE. ROLLED MEMBRANE.
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	PROTECTO WRAP M-400A	PROTECTO WRAP CO. 2255 SOUTH DELAWARE ST. DENVER, COLORADO 80223 303/777-3001	05/01/88	1434	A	PRE-FORMED SHEET NO MORE THAN 4% GRADES. ROLLED FABRIC MEMBRANE.
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	ROYSTON BRIDGE DECK 10A	ROYSTON LABORATORIES, INC. 800/245-3209 JOHN TORTORETTE	05/01/88	1435	A	PREFABRICATED LAMINATE WITH FIBERGLASS MESH LAYERED BETWEEN ASPHALT MASTIC. ROLLED. NO MORE THAN 7% SLOPE.
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	SAMI ASPHALT RUBBER CHIP SEAL	INTERNATIONAL SURFACING INC. REP: JEFFREY R. SMITH OR DICK MESSICK 800/528-4548	10/14/93	900	A	USES RECYCLED RUBBER CAR TIRES GOOD PERFORMANCE ON APPLICA- TIONS OF THIS PRODUCT. PAVED SYSTEM, ABOUT \$450/TON.
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	UNIROYAL FLEXIBLE MEMBRANE 6125	AMERICAN HYDROTECH, INC. 206/441-6125	05/01/88	1437	A	HOT APPLIED RUBBERIZED ASPHALT COMPOUND NO MORE THAN 5% SLOPE SAME AS HWY MEMBRANE 125 P625.
00591.00	MEMBRANE WATERPROOFING FOR WARRANTY PROJECTS	SOPRALENE FLAM ANTIROCK	SOPREMA INC. 800/356-3521 KNIFE EDGE GROUP ADAM BROWN AND NEIL BROWN, 207/743-8885	10/11/01	1712	A	GRADE LIMIT: NONE MFG WILL WARRANT PROJECTS & SHOULD BE ON JOB-SITE.
00591.00	MEMBRANE WATERPROOFING FOR WARRANTY PROJECTS	WABO GUARDIAN BRIDGE DECK SYST	WATSON BOWMAN ACME DEBBIE STEIGER 800/677-4922 STEVE BRANDT 909/867-2161 JOHN MANNING 800/253-9226 X253	08/08/02	2458	A	GRADE LIMIT: MULTI LAYER POLYURETHANE
00591.00	PROTECTIVE PANELS ASPHALT PLANKS	APOC 1/4 IN. PROTECTION PANELS	ASPHALT PRODUCTS OIL CORP LONG BEACH, CA 90805	05/01/88	2016	A	OR "APPROVED EQUAL" CLAUSE APPLIES TO THIS CATEGORY SEE SPECIAL PROVISIONS
00597.11	CLEAR DAMP PROOFING ACRYLIC	CLEAR ACRYLIC CONCRETE SEALER M-792A	MILLER PAINT CO 503/233-4491 PORTLAND, OR 97214 PHONE: 503/255-0190	05/01/88	1720	A	FOR BUILDING EXT WALLS. MAY HAVE HIGH VOC'S.

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00597.11	FILLERS & SEALERS FILLER	READY TO APPLY BLOCK FILLER B25W25	SHERWIN WILLIAMS 503/362-3729	12/10/93	1718	A	BLOCK FILLER FOR USE ON CONCRETE BLOCK BUILDINGS. FOR VERTICAL FACE, ABOVE GRADE SAME AS PREP-RITE B25W25.
00597.11	FILLERS & SEALERS FILLER	SPRAYABLE SMOOTH BLOCK FILLER 501901	RODDA PAINT 12000 SW GARDEN PLACE PORTLAND OR 97232 503/521-4300	05/01/88	1310	A	WHITE, BLOCK FILLER FOR USE ON CONCRETE BLOCK BUILDINGS. VERTICAL FACES, ABOVE GRADE.
00597.11	WATERPROOFING - CAP	SHERLASTIC ELASTOMERIC WATERPROOFING COATING A5	SHERWIN WILLIAMS 503/362-3729	05/01/88	1719	A	SEALER FOR USE ON CONCRETE BLOCK BUILDINGS / WALLS. GOOD FOR TOP CAP.
00597.11	WATERPROOFING - CAP	SUPER ROFLEX ELASTOMERIC COAT. 511301	RODDA PAINT 12000 SW GARDEN PLACE PORTLAND OR 97223 503/521-4300	05/01/88	1309	A	WHITE, TOP SEALER FOR USE ON CONCR BLOCK BUILDINGS / WALLS. MAINTAIN 15 MILS (DRY) AFTER 2 COATS.
00745.00	ASPHALT COLD PATCH - HP BUCKETS	INSTANT ROAD REPAIR	SAFETY LIGHTS 713/845-1800 TRAFFIC SAFETY 800/547-8518	06/13/02	1895	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK	BONDIX	SEABOARD ASPHALT PRODUCTS CO. 3601 FAIRFIELD RD. BALTIMORE, MARYLAND 21226 SHAWN CAMPBELL 410/355-0330	06/13/02	1515	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK	ELASTI-PATCH	KOCH MATERIALS 509/487-4560	06/13/02	2627	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK	TAG 8000	INFRATECH POLYMERS 800/567-4888	06/13/02	1265	A	PART OF RESEARCH PROJECT 2002. DID WELL ON THE ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK	UPM COLD MIX	UNIQUE PAVING MATERIALS CORP. 800/441-4880 VEN: WILDISH CONSTRUCTION PORTER YETT 503/282-3251	06/13/02	831	A	PART OF RESEARCH PROJECT 2002. DID WELL ON THE ROAD. PASSED LAB TESTS.

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00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	EZ STREET	LAKESIDE INDUSTRIES RICK RAWLINGS 425/313-2681 BOB HUNT 503/640-2208	08/08/02	2407	A	MEETS SPECS.
00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	OPTIMIX	OPTIMIX INC. JEF AXEL 516/293-6300 TOM BRIGGS 360/571-0585	06/13/02	1306	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	PERMA PATCH	NATIONAL PAVING & CONTRACTING 410/764-7117 HOWARD SMUKLER 510/525-8961	06/13/02	2527	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.00	ASPHALT COLD PATCH - HP BULK AND BAGS	QPR	QPR A DIV OF LAFARGE 253/265-1542 ALPINE PRODUCTS 800/591-9466 MORSE BRO 503/390-6955	06/13/02	560	A	PART OF RESEARCH PROJECT 2002. WORKED WELL ON ROAD. PASSED LAB TESTS.
00745.22	TRUCKBED COATING MATERIAL	BIG RED	TEXAS REFINERY CORPORATION SCOTTSDALE, AZ 602/945-1710	01/11/96	1468	A	PASSED TESTS AT ARIZONA DOT FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	BIO KREAM	PRESTO CHEMICAL CO. 800/922-9023	07/13/00	1575	A	PASSED ARIZONA DOT TESTS. BLEND OF VEGETABLE OIL AND SURFACTANTS. CLOSELY FOLLOW MANUFACTURERS INSTRUCTIONS.
00745.22	TRUCKBED COATING MATERIAL	BLACK MAGIC 13	CHEMMARK CORP 800/725-8470 SCOTT SIGSTAD 800/521-4929	09/12/96	1302	A	PASSED ARIZONA DOT TESTS FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	FOAM 1846-50	MCCALL OIL 800/622-2558	09/09/99	939	A	PASSED ARIZONA DOT TESTS. FOAM GENERATING LUBRICATING AGENT. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	OMNI-268 RELEASE PLUS WAS NCC-268 RELEASE PLUS (NCC)	OMNI RESOURCES 800/241-4547	01/11/96	1469	A	PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.

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STANDARD SPEC NO.	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	PRODUCT NUMBER	LIST	-----REMARKS-----
00745.22	TRUCKBED COATING MATERIAL	SD-20 CLEANER	SPARTAN CHEMICAL CO, INC TOLEDO, OH 419/531-5551	01/11/96	1470	A	PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	SLIPEAZEE SB	ROCHESTER MIDLAND 716/336-2200 ICL OF OREGON 800/876-4256	01/11/96	873	A	WATER BASED SOAP PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	SOY RELEASE 3	SOY ENVIRONMENTAL PORDUCTS, INC REP: STEVE ELLIS 913/599-0806 VEN: C&A INDUSTRIAL SUPPLIES 541/484-6615 OR 541/521-8602	03/13/97	1644	A	OK FOR USE ON RUBBER TIRES, TRUCKBEDS, TOOLS, WORKBOOTS. PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURERS INSTRUCT.
00745.22	TRUCKBED COATING MATERIAL	SYN-COAT	PRESTO CHEMICAL COMPANY 11205 HIGHWAY 9 ROSWELL, GA 30076 MARGIE MILLER 800/992-9023	07/10/97	1590	A	PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	TEC-SHIELD	TEC-TEAM INDUSTRIES 800/700-2530	04/12/01	2321	A	PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	TEC-SHIELD (FOR RUBBER)	TEC-TEAM INDUSTRIES 800/700-2530	05/10/01	2321	A	TESTING BY GOODYEAR TIRE. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	THERMAL SLIDE RTUS	CHEMMARK CORP 800/725-8470 SCOTT SIGSTAD 800/521-4929	11/14/96	1301	A	PASSED TESTS AT ARIZONA DOT. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL	TUFF-ACT	MICROBLEND CHEMICAL CO. 800/966-2436	04/13/00	1867	A	PASSED TESTS AT ARIZONA DOT. ALSO KNOWN AS GARGOYLE. FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.
00745.22	TRUCKBED COATING MATERIAL FOR RUBBER	BLACK MAGIC FOR RUBBER	CHEMMARK CORP 800/725-8470 SCOTT SIGSTAD 800/521-4929	09/12/96	1303	A	PASSED ARIZONA DOT TESTS DESIGNED FOR RUBBER TIRES, ETC FOLLOW MANUFACTURER'S INSTRUCTIONS CLOSELY.

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00746.00	POURED FILLER HOT POURED	ASPHALT RUBBER PLUS PART #34241	CRAFCO INC. 800/528-8242 VENDOR: ALBINA FUEL CO. 3246 NE BROADWAY PORTLAND, OR 503/281-1161 OR 800/888-5048	05/01/88	2098	A	AS PER STANDARD DETAIL PLANS DRWG #36842. NOT SELF LEVELING. ASTM D 1190. 18% RUBBER AND OF THAT 70% IS RECLAIMED RUBBER
00746.00	POURED FILLER HOT POURED	CMC 103	DEERY AMERICAN 970/858-3678 SPECIAL ASPHALT PRODUCTS CHRIS COOK 503/295-6490	05/01/88	234	A	ORIGINALLY SPECIAL ASPHALT PRODUCTS CF, TYPE 1153.
00746.00	POURED FILLER HOT POURED	CRAFCO ROADSaver 201 PART #34201	CRAFCO INC. 800/528-8242 VENDOR: ALBINA FUEL CO. 3246 NE BROADWAY PORTLAND, OR 503/281-1161 OR 800/888-5048	11/01/89	476	A	ASTM D 1190/D 3405. 18% RUBBER AND OF THAT 60% IS RECLAIMED TIRE RUBBER. ASPHALT AND CONCR
00746.00	POURED FILLER HOT POURED	CRAFCO ROADSaver 211 PART #34211	CRAFCO INC. 800/528-8242 VENDOR: ALBINA FUEL CO. 3246 NE BROADWAY PORTLAND, OR 503/281-1161 OR 800/888-5048	06/01/88	239	A	USED ON WILDISH JOB ON I-5 N.GRANTS PASS-ROCK PT. ASPHALT OR CONCR. ASTM D 1190.
00746.00	POURED FILLER HOT POURED	CRAFCO ROADSaver 221 PART #34221	CRAFCO INC. 800/528-8242 VENDOR: ALBINA FUEL CO. 3246 NE BROADWAY PORTLAND, OR 503/281-1161 OR 800/888-5048	08/05/88	2099	A	ASTM D 1190/D 3405. ASPHALT OR CONCR.
00746.00	POURED FILLER HOT POURED	KOCH 9001 (M 173)	KOCH MATERIALS CO TONY FLYNN 800/521-9593 BRETTAUER OIL ROB HARRIS 800/682-2449	01/17/91	122	A	ASTM D-1190 SPECIAL ORDER FOR WEST COAST PROJECTS.
00746.00	POURED FILLER HOT POURED	KOCH 9075 FLEX-A-FILL	KOCH MATERIALS CO TONY FLYNN 800/521-9593 BRETTAUER OIL ROB HARRIS 800/682-2449	05/01/88	280	A	MAINTENANCE REG'S 3&4 USED APPEARS TO PERFORM WELL ON PAVEMENT ; USED ON C10340 AND AL VOHLAND IS USING
00759.00	DETECTABLE WARNING DEVICE	DETECTABLE WARNING MAT INLINE DOME	DETECTABLE WARNING SYSTEMS 866/999-7452 TRAFFIC SAFETY 800/547-8518	08/08/02	2648	A	TRUNCATED DOME. PLASTIC SHEET GLUED DOWN WITH SCOTCH WELD, A STRUCTURAL ADHESIVE.
00759.00	DETECTABLE WARNING DEVICE	STRONGWARN SWADA 2000	STRONGWALL INDUSTRIES 201/445-4633 CLIFF CHAPPELL 360/445-8372	08/08/02	2650	A	TRUNCATED DOME. LIQUID BASE COVERING CEMENTITIOUS BUMPS.

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00759.00	DETECTABLE WARNING DEVICE	VANGUARD TRUNCATED DOME	TILCO VANGUARD 800/290-5700	08/08/02	2649	A	TRUNCATED DOME. LIQUID PRODUCT
00820.00	CONCRETE BARRIER	AMCOR CONCRETE BARRIER	AMCOR (OLDCASTLE) 208/265-0176	08/08/02	2628	A	PLANT IS IN NAMPA IDAHO.
00820.00	CONCRETE BARRIER	CONCRETE PRODUCTS BARRIER	CONCRETE PRODUCTS, INC. DOUG PHELPS 360/834-3459	07/30/01	2460	A	BARRIER MFG AFTER 1/1/2001 IS APPROVED. BARRIER MFG BETWEEN 1/1996 AND 12/2000 REQUIRES CONTRACTOR PROVIDED LAB TESTS.
00820.00	CONCRETE BARRIER, MOVABLE	QUICK CHANGE MOVABLE BARRIER	BARRIER SYSTEMS INC. 510/733-9656 BYRON WEST 707/374-6800	10/10/91	465	A	FOR SPECIAL APPLICATIONS ONLY. TRK MOUNTED EQUIP MOVES SPECIA BARRIER FROM ONE SIDE TO THE OTHER UP TO 5 M, UP TO 16 KPH.
00820.11	BARRIER MARKER REFLECTORIZED	ASTRO OPTICS JD-1 & JD-2	ASTRO OPTICS CORP 312/893-2460 REP: MARY DAMSCH 847/428-3181 GARY KINBERG 847/428-3181	10/06/88	726	A	PRISMATIC LENS ON PLASTIC MARKER. JD-1: SIDE MOUNT, JD-2: TOP MOUNT.
00820.11	BARRIER MARKER REFLECTORIZED	PCBM-9CM BARRIER REFLECTOR	DAVIDSON PLASTICS 800/822-7528 TRAFFIC SAFETY 800/547-8518 ALPINE 253-351-9828	08/10/00	2267	A	PRISMATIC PLASTIC UNITS MOUNTED ON FRONT OF PLASTIC FLANGE.
00820.11	BARRIER MARKER REFLECTORIZED	STIMSONITE 965 & 967	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	06/01/89	2126	A	PRISMATIC LENS ON PLASTIC MARKER.
00822.00	GLARE SHIELDS	CARSONITE GLARE BLADE	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY DICK PARSONS 800/547-8518	11/08/01	17	A	INDIVIDUAL BLADES ATTACHED DIRECTLY TO THE BARRIER. NEW BASE BRACKET DESIGN 11/01.
00822.00	GLARE SHIELDS	MODULAR GLARE SHIELDS	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY, DICK PARSONS 800/547-8518	11/09/01	86	A	FIBERGLASS BLADES MOUNT TO PRE FORMED BASE WHICH BOLTS TO BARRIER. NEW BASE BRACKET DESIGN 11/01.

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00822.00	GLARE SHIELDS	PROVEN PRODUCTS GLARE SHIELD	JOHANNES BIELHARZ VOHRINGEN, WEST GERMANY DISTRIBUTER: TRAFFIC SAFETY DICK PARSONS 800/457-8518	11/04/93	984	A	SIMILAR TO SYRO STEEL. IT IS GREEN PLASTIC W/GALVANIZED STEEL MOUNTING BRACKETS. MEETS ODOT FLEXIBILITY REQUIREMENTS.
00822.00	GLARE SHIELDS	TRINITY GLARE SHIELD SYSTEM	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 CORAL SALES 800/538-7245 DON GRIPNE 360/943-9559	03/13/92	805	A	MODULAR SYSTEM W/POLYETHYLENE TUBES & GALVANIZED BRACKETS TO HOLD TUBES ONTO METAL OR POLY-ESTER RUNNER.
00822.00	GLARE SHIELDS	TRINITY GLAREFOIL	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 CORAL SALES 800/538-7245 DON GRIPNE 360/943-9559	03/13/92	806	A	POLYETHYLENE TUBES. MOUNT ON TOP OF CONCRETE BARRIER OR W/ FLAT RUNNERS (PROD. #805). PASSED BENDING TEST.
00822.00	GLARE SHIELDS	TRINITY GLAREFOIL W/BASE	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 CORAL SALES 800/538-7245 DON GRIPNE 360/943-9559	04/09/92	859	A	SIMILAR TO ODOT PROD# 805/806 USES 1 PIECE BLADE W/FLAPS MOLDED IN THE BOTTOM. CAN BE USED FOR MODULAR OR SINGULAR.
00850.10	LEGEND MARKING TYPE A HOT Poured THERMOPLASTIC 3.0 MM	PERMALINE PRIMERLESS, LEADED	ENNIS PAINT 800/331-8118	02/10/00	1778	A	MFG SAYS PRODUCT MAY BE APPLIED WITHOUT USING PRIMER. APPLY AT A THICKNESS OF 3 MM. DAS BID #0143 EXPIRES 8/6/02.
00850.10	LEGEND MARKING TYPE B PREFORMED THERMOPLASTIC 3.2 MM	HOTAPE	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	09/11/97	703	A	APPLIED WITH A PROPANE TORCH. FOR LEGENDS AND CROSSWALKS. PRICE AGREEMENT 73400147-97, EXPIRES 10/9/02 PA#7454
00850.10	LEGEND MARKING TYPE B PREFORMED THERMOPLASTIC 3.2 MM	PREMARK 20-20	FLINT TRADING LAURA JENSEN 336/475-6600 GREGG UBELHART 206/546-6136	09/12/96	1494	A	APPLIED WITH A PROPANE TORCH. FOR LEGENDS AND CROSSWALKS. THIS VERSION IS MORE DURABLE THAN FLINT'S STANDARD VERSION.
00850.10	LEGEND MARKING TYPE C COLD APPLIED PLASTIC FILM	3-M 420/421	3-M COMPANY 800/362-3455 CATHY ARDANAZ 503/612-6718 TRAFFIC CONTROL MATERIALS DIV. 800/553-1380	02/08/01	1181	A	
00850.10	LEGEND MARKING TYPE C COLD APPLIED PLASTIC FILM (TAPE)	3-M STAMARK 380	3-M COMPANY 800/362-3455 CATHY ARDANAZ 503/612-6718 TRAFFIC CONTROL MATERIALS DIV. 800/553-1380	02/08/01	679	A	18 MONTH WARRANTY - COMPLETE REPLACEMENT BY MANUFACTURER.

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00850.10	LEGEND MARKING TYPE D METHYL METHACRYLATE 3.0 MM	DURASTRIPE	TMT PATHWAY RON CAMPBELL 800/835-3357	03/14/96	348	A	2 COMPONENT PLUS BEADS ON TOP. INTEGRAL AGGREGATE AND BEADS. STOP BARS-TYPE 1, OTHERS-TYPE 4 PLACE AT 3.0 MM THICKNESS.
00851.10	TAPE, PERMANENT STRIPING PATTERNED HOT INLAID & GROOVED	3-M STAMARK 380	3-M COMPANY 800/362-3455 CATHY ARDANAZ 503/612-6718 TRAFFIC CONTROL MATERIALS DIV. 800/553-1380	07/13/00	679	A	BETTER THAN THE 350 SERIES BECAUSE OF BRIGHTER CERAMIC BEADS INSTEAD OF THE GLASS. LAYDOWN IMPORTANT FOR ADHESION
00851.10	TAPE, PERMANENT STRIPING PATTERNED, CONTRAST HOT INLAID & GROOVED	3-M STAMARK 380-5	3-M COMPANY 800/362-3455 CATHY ARDANAZ 503/612-6718 TRAFFIC CONTROL MATERIALS DIV. 800/553-1380	07/13/00	1410	A	CONTRAST TAPE WITH BLACK ON EACH SIDE OF 100MM WHITE.
00862.10	TRAFFIC LINE, DURABLE METHOD A THERMOPLASTIC, LEADED 2.3 MM AND 3.0 MM	AQUALITE	ENNIS PAINT 800/331-8118	12/11/97	1348	A	THERMOPLASTIC LINE WITH BUMPS REMOVE MOST OF EXISTING LINE. BUMPS GIVE GOOD WET WEATHER DRIVABILITY AND RUMBLE EFFECT
00862.10	TRAFFIC LINE, DURABLE METHOD A THERMOPLASTIC, LEADED 2.3 MM AND 3.0 MM	VIBRALINE	BRITE-LINE 800/231-8902 MIKE FORTH 888/201-6448	09/12/96	1347	A	THERMOPLASTIC LINE WITH BUMPS. REMOVE EXISTING LINE. CAN GIVE GOOD WET WEATHER DRIVABILITY AND RUMBLE EFFECT
00862.10	TRAFFIC LINE, DURABLE METHODS A, B, C, AND F METHYL METHACRYLATE 2.3 MM AND 3.0 MM	DURASTRIPE	TMT PATHWAY RON CAMPBELL 800/835-3357	03/14/96	348	A	2 PART PRODUCT. 5 VERSIONS. USE TYPE 3 FOR INLAY AND LONG- LINE EXTRUDE-NON PROFILED. CALL LAB FOR INFO.
00862.10	TRAFFIC LINE, DURABLE METHODS B AND F THERMOPLASTIC, LEADED 2.3 MM AND 3.0 MM	PERMALINE PRIMERLESS	ENNIS PAINT 800/331-8118	02/10/00	1778	A	MFG SAYS PRODUCT MAY BE APPLIED W/O PRIMER. THICKNESS OF 2.3 OR 3.0MM AS SPECIFIED. DAS BID #0143 EXPIRES 8/6/02.
00862.10	TRAFFIC LINE, DURABLE METHODS D AND E THERMOPLASTIC, LEAD FREE INVERTED PROFILE	RAINLINE	RAINLINE CORP 334/277-0237 MAC MARCATO 800/844-0297	09/12/96	1166	A	REMOVE 80% OF EXISTING LINE. A GEAR IS RUN OVER WET LINE. GOOD WET WEATHER REFLECTIVITY. WHITE:RLOR-1W; YELLOW:RLOR-1Y
00907.10	BIRD SPIKES	BIRD SPIKE 2001	BIRD-B-GONE 800/392-6915	02/14/02	2523	A	STAINLESS STEEL VERSION.

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00907.10	BIRD SPIKES	NIXALITE MODEL S	NIXALITE OF AMERICA INC. 800/624-1189	02/14/02	2522	A	STAINLESS STEEL VERSION.
00930.00	BREAKAWAY SIGN SUPPORTS	POZ-LOC SLIPBASE SYSTEM	NORTHWEST PIPE, INC. MIKE JORDAN 800/369-5009 JOHN SMITH 970/260-1080	10/12/00	1598	A	MULTI-DIRECTIONAL BREAKAWAY SIGN SUPPORT SYSTEM. APPROVED BY FHWA - NCHRP 350. WAS SOUTHWESTERN PIPE 5/2000.
00930.00	SIGN SUPPORT, SQUARE TUBE (REPLACEMENT FOR WOOD)	SQUARE VALUE SIGN SUPPORT	ST LOUIS STEEL 314/731-8000 TRAFFIC SAFETY 800/547-8518	07/13/00	2194	A	FOR USE AS A SUBSTITUTE SUPPORT FOR SIGNS USING WOOD POSTS ONLY. A C.O. IS NEEDED TIL A SPEC. PROV. DONE.
00930.00	SIGN SUPPORT, SQUARE TUBE (REPLACEMENT FOR WOOD)	TEL SQUARE BREAKAWAY ASSEMBLY	S-SQUARE TUBE PRODUCTS 303/286-7051 DIST: SHARP-LINE IND. SPOKANE, 509/535-4965	02/12/98	1654	A	FOR USE AS A SUBSTITUTE SUPPORT FOR SIGNS USING WOOD POSTS ONLY. A C.O. IS NEEDED TIL A SPEC. PROV. DONE.
00930.00	SIGN SUPPORT, SQUARE TUBE (REPLACEMENT FOR WOOD) REGULAR	TELESPAR SLIP BASE BREAKAWAY ASSEMBLY	UNISTRUT HERB HENRY 313/721-4040 JAIME CERVANTES 888-512-0781	05/13/93	981	A	FOR USE AS A SUBSTITUTE SUPPORT FOR SIGNS USING WOOD POSTS ONLY. A C.O. IS NEEDED TIL A SPEC. PROV. DONE.
00930.00	SIGN SUPPORT, SQUARE TUBE (REPLACEMENT FOR WOOD) REGULAR	ULTIMATE	WESTERN HIGHWAY PRODUCTS NICK CALVI 800/730-4939 FORESS SIGN CO. REX BARNES 541/928-5858	04/10/97	1613	A	FOR USE AS A SUBSTITUTE SUPPORT FOR SIGNS USING WOOD POSTS ONLY. A C.O. IS NEEDED UNTIL A SPECS ARE CHANGED.
00990.43	TRAFFIC LOOP SEALANTS EPOXY	EAS-14	QCM COMPANY 930 S. CENTRAL KENT, WA 98052 800/321-0170	00/51/88	762	A	AC OR PCC. EPOXY. TYPES 1 & 2; FOR HILLS & FLAT GRADES. DAMP BUT NOT WET. SPECS REQ. 6 MO. WARRANTY PAST JOB ACCEPTANCE.
00990.43	TRAFFIC LOOP SEALANTS EPOXY	PG 3-52-1	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 WHITE CAP 503/287-4151	05/01/88	657	A	FOR PCC OR AC. FLEXIBLE EPOXY. SURFACES: CLEAN, SOLID, & DRY. AIR 40+ DEGREES. SPECS REQ 6 MO WARRANTY PAST JOB ACCEPTNCE
00990.43	TRAFFIC LOOP SEALANTS HOT MELT ASPHALT	CRAFCO 34271 LOOP SEALANT	CRAFCO 800/528-8242	02/10/00	143	A	AC OR PCC.HOT MELT, RUBBERIZED ASPHALT. HI TEMP CAN MELT WIRE INSULATION. CLEAN & DRY. (WAS DISTRIBUTED BY MSI)

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00990.46	FIRE PRE-EMPT DEVICE	OPTICOM MODELS 752, 711, 721, 722	3-M COMPANY 800/362-3455 ALAN HOLLEN 503/789-0197	05/01/88	1077	Q	THIS IS A STROBE LIGHT TYPE. CHAMBER TESTING REQUIRED.
01040.42	HERBICIDES	BIOBARRIER II WEED CONTROL	REEMAY, INC., OLD HICKORY, TN 615/847-7000	05/18/98	1627	A	PROD. IS FABRIC, INCORPERATING HERBICIDE NODULES AT INTERVALS PROD. IS UV SENSITIVE, AND MUST BE COVERED WITH 2" OF COVER MTL
01040.42	HERBICIDES	BIOBARRIER ROOT CONTROL	REEMAY, INC., OLD HICKORY, TN 615/847-7000	05/18/98	1626	A	PRODUCT GUARANTEED, 15 YRS. PROD. IS TIME-RELEASED HERB- ICIDE NODULES, IMBEDDED AT REGULAR INTERVALS IN FABRIC.
01040.42	HERBICIDES	CASORON G-10	THOMPSON-HAYWARD CO. P.O. BOX 14, HWY 30 ST. GABRIEL, LOUISIANA 70776	05/01/88	2025	A	FOLLOW MFG INSTRUCTIONS FOR APPLICATION. DO NOT OVER APPLY.
01040.42	HERBICIDES	CASORON G-4	THOMPSON-HAYWARD CO. P.O. BOX 14, HWY 30 ST. GABRIEL, LOUISIANA 70776	05/01/88	2026	A	FOLLOW MFG INSTRUCTIONS FOR APPLICATION. DO NOT OVER APPLY.
01040.42	HERBICIDES	RHONSTAR 6		05/01/88	2027	A	FOLLOW MFG INSTRUCTIONS FOR APPLICATION.
01070.00	MAILBOX SUPPORTS	V-LOC ANCHOR (FLUSH V-WING SOCKET)	TAPCO 800/236-0112 WAS FORESITE TRAFFIC SAFETY 800/547-8518	05/01/88	2028	A	SEE STANDARD DRAWING RD 100.
02010.10	CEMENT, TYPE 1-SM	MAXCEM	LAFARGE CORPORATION KERRY BURKE 800/477-0100	02/14/02	2298	A	SLAG MODIFIED - SEATTLE PLANT. TYPE 1 CEMENT WITH 20% SLAG.
02010.10	CEMENT, TYPE I	GLACIER NORTHWEST - ONODA	GLACIER NORTHWEST 503/335-2600 (WAS LONESTAR NORTHWEST)	12/12/96	1619	A	AASHTO TYPE I ONLY SOURCE: ONODA (NANJING).

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02010.10	CEMENT, TYPE III	LAFARGE CEMENT - KAMLOOPS	LAFARGE CORPORATION KERRY BURKE 800/477-0100	01/11/96	1475	A	KAMLOOPS PLANT AASHTO TYPE III
02010.10	CEMENT, TYPE IP	LAFARGE CEMENT - SEATTLE	LAFARGE CORPORATION KERRY BURKE 800/477-0100	12/09/99	1970	A	
02010.10	CEMENT, TYPES I, II	ASH GROVE CEMENT - DURKEE	ASHGROVE CEMENT CO. 206/623-5596	01/14/99	1472	A	DURKEE PLANT ONLY. AASHTO TYPES I AND II ONLY SAMPLES NEEDED STILL FOR ANY OTHER TYPES.
02010.10	CEMENT, TYPES I, II	LAFARGE CEMENT - EXSHAW	LAFARGE CORPORATION KERRY BURKE 800/477-0100	01/11/96	1475	A	EXSHAW PLANT: AASHTO TYPE I,II
02010.10	CEMENT, TYPES I, II	LEHIGH CEMENT-DELTA WAS CALAVARAS THEN TILBURY	LEHIGH NORTHWEST CEMENT CO. 503/293-8459 JIM RENNIE 604/946-0411	01/07/98	1746	A	DELTA BC PLANT.
02010.10	CEMENT, TYPES I, II, III	ASH GROVE CEMENT - SEATTLE	ASHGROVE CEMENT CO. 206/623-5596	01/11/96	1472	A	SEATTLE PLANT ONLY. AASHTO TYPES I,II,III
02010.10	CEMENT, TYPES I, II, III	LAFARGE CEMENT - RICHMOND BC	LAFARGE CORPORATION KERRY BURKE 800/477-0100	12/09/99	1968	A	
02010.10	CEMENT, TYPES I, II, III	LAFARGE CEMENT - SEATTLE	LAFARGE CORPORATION KERRY BURKE 800/477-0100	12/09/99	1969	A	
02010.10	CEMENT, TYPES I, II, III	LEHIGH CEMENT-REDDING WAS CALAVARAS THEN TILBURY	LEHIGH SOUTHWEST CEMENT CO. REDDING 530/275-1581	01/11/96	1473	A	REDDING CALIFORNIA PLANT ONLY. AASHTO TYPES I,II,III

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02010.10	CEMENT, TYPES I, III	GLACIER NW CEMENT - DALIAN	GLACIER NORTHWEST 503/335-2600 (WAS LONESTAR NORTHWEST)	03/09/00	2207	A	AASHTO TYPE I AND III.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS NON-METALLIC	747 RAPID-SET GROUT WAS CONBEXTRA 747	CHEMREX 800/243-6739 BRUCE JACKSON 503/772-4101 MASONS SUPPLY 800/537-3407	05/12/88	252	A	PRODUCT WAS FOSROC CONBEXTRA 747.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS, MODIFIED	SIKATOP 111 REPAIR MORTAR	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 WHITE CAP 503/287-4151 ATLAS SUPPLY 800/806-7952	05/01/88	1152	A	NOT LESS THAN 12.7MM DEPTH DO NOT FEATHER EDGES. MINIMUM TEMP. OF 4.4 DEGREES C IF PART "A" FREEZES-DISCARD.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS, MODIFIED	SIKATOP 122 REPAIR MORTAR	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	05/01/88	85	A	NOT LESS THAN 3.0MM DEPTH
02010.10	PCC PATCHING, RAPID SET EPOXY	PERMATOP LIQUID BINDER	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 WHITE CAP 503/287-4151	05/01/88	658	A	FIELD EVALUATION TWO PART EPOXY MIXED W/SAND CAN BE FEATHERED TO 0
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS	ALLCRETE 20 (FORMERLY ALLCRETE 20)	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/01/88	92	A	EFFECTIVE FOR COSMETIC PATCH OTHERWISE USE KEYWAY GROUT & EPOXY BONDING AGENT FOR STRUCTURAL PATCHING
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS	RENDEROC S	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/01/88	1323	A	EFFECTIVE FOR COSMETIC PATCH OTHERWISE USE KEYWAY GROUT & EPOXY BONDING AGENT FOR STRUCTURAL PATCHING
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS, MODIFIED	POLYSET	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/01/88	2030	A	EFFECTIVE FOR COSMETIC PATCH OTHERWISE USE KEYWAY GROUT & EPOXY BONDING AGENT FOR STRUCTURAL PATCHING
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS, MODIFIED	THOROC HBA REPAIR MORTAR WAS FOSROC RENDEROC HBA	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/01/88	216	A	FOR COSMETIC PATCH OTHERWISE USE KEYWAY GROUT & EPOXY BOND- ING AGENT FOR STRUCT PATCH. ACCELERATOR FOR COOL WEATHER.

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02010.10	PCC PATCHING, VERY RAPID CEMENTITIOUS	FIVE STAR HWY PATCH	FIVE STAR PRODUCT 800/243-2206 JOHN TRAUGER 909/689-5500 WILLIAMS CONCRETE 503/286-3647 MASONS SUPPLY 800/537-3407	05/01/88	65	A	
02010.10	PCC PATCHING, VERY RAPID CEMENTITIOUS	PATCHROC 10-60 NOW THOROC 10-60 RAPID MORTAR	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	06/08/00	839	A	MINIMUM 12MM DEEP. MFG CLAIMS AT LEAST 13.8 MPA IN 1 HOUR. WORKING TIME IS 16 MINUTES @22 DEGREES C. NO FEATHER EDGING.
02010.10	PCC PATCHING, VERY RAPID CEMENTITIOUS	SET 45	CHEMREX 800/243-6739 BRUCE JACKSON 503-722-4101 WHITE CAP 503/287-4151 MASONS SUPPLY 800/537-3407	05/01/88	655	A	DO NOT USE UNDER LATEX OR POLYESTER-RESIN CONCR OVERLAYS HOT WEATHER FORMULA >21 DEG C. MAGNESIUM PHOSPHATE.
02010.10	PCC PATCHING, VERY RAPID CEMENTITIOUS	THOROC 10-60 RAPID MORTAR WAS PATCHROC 10-60	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	06/08/00	839	A	MINIMUM 12MM DEEP. MFG CLAIMS AT LEAST 13.8 MPA IN 1 HOUR. WORKING TIME IS 16 MINUTES @22 DEGREES C. NO FEATHER EDGING.
02010.10	PCC PATCHING, VERY RAPID CEMENTITIOUS	THOROC 1060S WAS NITOFLOL PATCHROC 1060S	CHEMREX 800/243-6739 BRUCE JACKSON 503-722-4101 MASONS SUPPLY 800/537-3407	03/12/98	136	A	MFG RECOMMENDS DAMP SURFACE BEFORE APPLYING PRODUCT. MFG CLAIMS 3700 PSI IN 2 HRS. MINIMUM DEPTH: 6 MM.
02010.10	PCC PATCHING, VERY RAPID METHYL-METHACRYLATE	CONCRESSIVE 2020	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407 WHITE CAP 800/452-2994	05/01/88	25	A	HAS BEEN USED SUCCESSFULLY, CURE IN 1-3 HOURS. TEMP DOWN TO 20 DEGREES. EXTENDABLE. CAN BE FLAMABLE ESPEC WHILE MIXING
02010.10	PCC PATCHING, VERY RAPID POLYMERIC CEMENT	TECTONITE CEMENT	CBF 888/441-1019 WILLIAMS FORM 503/286-3647 MUNNELL SHERRILL 541/882-2581	08/10/00	1585	A	MUST BE 6.35 MM MIN. THICK VERY FAST SETTING, HIGH EARLY STRENGTH MFG CLAIMS 20.69 MPA IN 20-MIN. CONTROLLABLE SET.
02010.20	THIN OVERLAY FOR PCC, ACRYLIC-POLYMER NOW BY CHEMREX, WAS FOSROC	THOROTOP HCR NON-FLEXIBLE	CHEMREX 800/243-6739 CUSTOMER SERVICE: 800/433-9517 TECH SERVICE: 800/243-6739 REP: ROB BECHTEL 425/392-1876	02/01/89	129	A	TEMP VERY IMPORTANT FOR CURE. 10MM, IN 2 LIFTS. FEATHERS TO 3 MM., TOP SHOULD BE TINED.
02010.20	THIN OVERLAY FOR PCC, EPOXY	FLEXOLITH 213	TAMMS INDUSTRIES, 800/218-2667 WILLIAMS FORM 503/286-3647 MASONS SUPPLY 800/537-3407 DAVE DILLON 425/820-4576	01/17/91	230	A	USED ON SB UMATILLA RVR XING. BR.#16444, CONT.#C10387 6/87. FLEXIBLE EPOXY.

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02030.10	FLY ASH ADMIX FOR CONCRETE	CLASS C FLY ASH - BOARDMAN WAS WESTERN ASH COMPANY	BORAL MATERIAL TECHNOLOGIES 210/349-4069 MUST COME FROM BOARDMAN PLANT. CORP: VANCOUVER, WA	01/16/95	1463	A	MEETS AASHTO M295 WITH ODOT MODIFICATIONS.
02030.10	FLY ASH ADMIX FOR CONCRETE	CLASS F FLY ASH - CENTRALIA	ISG RESOURCES MUST COME FROM CENTRALIA, WA 800/426-5171 503/657-5159	05/01/88	1462	A	MEETS AASHTO M295 WITH ODOT MODIFICATIONS. WAS POZZOLANIC NW UNTIL 3/98.
02030.30	LATEX MODIFIER FOR PCC ADMIX FOR DECK OVERLAY	DOW CONCRETE MODIFIER A	DOW CHEMICAL CO. SALZBURG RD. MIDLAND, MICHIGAN 48640 800/232-2346 OR 800/447-4369	05/01/88	1305	A	SUBMIT AS PART OF MIX DESIGN REQUEST THRU MATERIALS LAB.
02030.30	LATEX MODIFIER FOR PCC ADMIX FOR DECK OVERLAY	STYROFAN 1186	BASF CORP, CHEMICALS DIV. 615/855-2300 800/251-0612	05/01/88	566	A	SUBMIT AS PART OF MIX DESIGN REQUEST THRU MATERIALS LAB.
02030.30	LATEX MODIFIER FOR PCC ADMIX FOR DECK OVERLAY	TYLAC 97-314	DOW REICHOLD SPECIALTY LATEX RESEARCH TRIANGLE PRK, NC 27709 800/323-8138 800/555-2731 JIM SULLIVAN 206/282-9759	05/01/88	2032	A	SUBMIT AS PART OF MIX DESIGN REQUEST THRU MATERIALS LAB.
02040.10	AIR ENTRAINING AGENT	AIR TITE 60 NOW CALLED DARAVAIR AT60	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	01/09/97	1599	A	CONFORMS TO AASHTO M154
02040.10	AIR ENTRAINING AGENT	BORAL AIR 40 WAS MONEX AIR 40	BORAL MATERIAL TECHNOLOGIES 210/349-4069	05/14/98	1741	A	LIQUID ADDITIVE, SAID BY MANUF. TO REDUCE PERMEABILITY, & ENHANCE FREEZE/THAW & DE-ICE CAPABILITY OF CONCRETE.
02040.10	AIR ENTRAINING AGENT	CONCHEM AES FORMERLY PROTEX AES	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503-624-7911	05/01/88	763	A	CONFORMS TO AASHTO M154 (ASTM C260). THERE ARE TWO VERSIONS: REGULAR & CONCENTRATE. NEUTRALIZED VINSOL RESIN BASE.
02040.10	AIR ENTRAINING AGENT	DARAVAIR 1000	W.R. GRACE & CO. 800/733-9622 JEFF MARTY 503/803-2281	04/11/02	2557	A	CONFORMS TO AASHTO M154

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02040.10	AIR ENTRAINING AGENT	DARAVAIR AT60 WAS AIR TITE 60	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	07/06/01	1599	A	CONFORMS TO AASHTO M154
02040.10	AIR ENTRAINING AGENT	DAREX II AEA	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	06/10/93	1035	A	MFG HAS SUBMITTED TEST RESULTS CONFORMING TO ASTM C-494. USES ORGANIC ACID SALTS IN AN AQUEOUS SOLUTION.
02040.10	AIR ENTRAINING AGENT	FRITZ-PAK AIR PLUS	FRITZ-PAK 888/746-4116 MASONS SUPPLY 800/537-3407	07/08/93	1040	A	DRY, POWDERED AEA ADMIX. 236ML UPS FULL LOAD 1/4 TO 1%. COMPATIBLE W/ALL AEA + CACL. ADD OTHER ADMIX. SEPARATELY.
02040.10	AIR ENTRAINING AGENT	FRITZ-PAK SUPER AIR PLUS	FRITZ-PAK 888/746-4116 MASONS SUPPLY 800/537-3407	07/08/93	1041	A	DRY, POWDERED AEA ADMIX. 236ML UPS FULL LOAD 3/4 TO 2%. COMPATIBLE W/ALL AEA + CACL. ADD OTHER ADMIX SEPARATELY.
02040.10	AIR ENTRAINING AGENT	MB-AE 90	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	04/14/94	1163	A	INCREASES RESISTANCE TO FREEZE /THAW DAMAGE, ALSO INCREASES WATERTIGHTNESS BY REDUCING PERMEABILITY. MTS AASHTO M 154
02040.10	AIR ENTRAINING AGENT	MB-VR	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2047	A	CONFORMS TO AASHTO M154 (ASTM C260)
02040.10	AIR ENTRAINING AGENT	PAVE-AIR	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1358	A	CONFORMS TO AASHTO M154 (ASTM C260)
02040.10	AIR ENTRAINING AGENT	SIKA MIX 104	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	05/01/88	2066	A	CONFORMS TO AASHTO M154 (ASTM C260)
02040.10	SUPER SET-EXTENDER	DELVO	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	04/08/99	751	Q	FOR USE AS A SET EXTENDER ONLY WRITTEN APPROV FROM MATERIALS, AND BRIDGE SECTION. CALL THE MATERIALS LAB FOR DETAILS.

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02040.10	SUPER SET-EXTENDER	RECOVER	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	08/09/01	1521	Q	CHECK WITH LAB BEFORE USING. NOT FOR WASH WATER OR LEFT OVER CONCRETE APPLICATIONS.
02040.10	TYPE A ADMIXTURE WATER REDUCER	BORAL HC WAS MONEX HC	BORAL MATERIAL TECHNOLOGIES 210/349-4069	02/11/99	1737	A	PROD, A LIQUID ADDITIVE MEETS ASTM C-494, TYPE A FORMERLY KNOWN AS "RELCRETE TW-4."
02040.10	TYPE A ADMIXTURE WATER REDUCER	BORAL HW WAS MONEX HW	BORAL MATERIAL TECHNOLOGIES 210/349-4069	05/14/98	1736	A	ACCORDING TO MANUFACTURER, PROD.USE ALLOWS QUICK REMOVAL OF FORMS,IS DESIGNED FOR COLD WEATHER USE,WITH MIN.RETARDING
02040.10	TYPE A ADMIXTURE WATER REDUCER	BORAL LR WAS MONEX LR	BORAL MATERIAL TECHNOLOGIES 210/349-4069	07/12/01	1732	A	
02040.10	TYPE A ADMIXTURE WATER REDUCER	BORAL NW WAS MONEX NW	BORAL MATERIAL TECHNOLOGIES 210/349-4069	05/14/98	1733	A	ACCORDING TO MANUFACTURER, PROD. SHOWS AN "IMPROVED FLOW, AND INCREASED COHESION & PLACABILITY.
02040.10	TYPE A ADMIXTURE WATER REDUCER	BORAL RD2 WAS MIGHTY RD2 BY BOREMCO	BORAL MATERIAL TECHNOLOGIES 210/349-4069	05/01/88	2049	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	BORAL SP150 WAS MIGHTY 150 AND BORAL 150	BORAL MATERIAL TECHNOLOGIES 210/349-4069	05/01/88	2050	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	BORAL X-15 WAS MONEX X-15	BORAL MATERIAL TECHNOLOGIES 210/349-4069 210/349-4069	05/14/98	1731	A	PROD, A LIQUID ADDITIVE MEETS ASTM C-494, TYPE A
02040.10	TYPE A ADMIXTURE WATER REDUCER	DARACEM 19	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	02/13/97	1565	A	CONFORMS TO AASHTO M194 (ASTM C494) ALSO KNOWN AS WRDA 19

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02040.10	TYPE A ADMIXTURE WATER REDUCER	DARACEM 55	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	03/09/95	1294	A	INDEPENDENT TEST RESULTS MEET OUR SPECIFICATIONS. ASTM C494 TYPE A
02040.10	TYPE A ADMIXTURE WATER REDUCER	DARACEM 65	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	08/08/96	1532	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	DARATARD	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2037	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	EUCON 37	EUCLID CHEMICAL COMPANY 800/321-7628 OR 216/531-9222 WILLIAMS FORM 503/286-3647	06/01/89	1357	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	MASTERPAVE	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1359	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	MASTERPAVE N	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	03/11/99	215	A	CONFORMS TO AASHTO M194 (ASTM C494) ON CONDITIONAL LIST SINCE 1988, WITH NO PROBLEMS.
02040.10	TYPE A ADMIXTURE WATER REDUCER	MB-HC	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2046	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	MBL-80	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1477	A	CONFORMS TO AASHTO M194 (ASTM C494) SAME AS POZZOLITH 80 (1/96)
02040.10	TYPE A ADMIXTURE WATER REDUCER	MBL-82	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1478	A	CONFORMS TO AASHTO M194 (ASTM C494) SAME AS POZZOLITH 82 (1/96)

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STANDARD SPEC NO.	CATEGORY	PRODUCT NAME	LOCAL REPRESENTATIVE AND/OR MANUFACTURER	EFFECTIVE DATE	PRODUCT NUMBER	LIST	-----REMARKS-----
02040.10	TYPE A ADMIXTURE WATER REDUCER	PLASTOCRETE 150	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	05/01/88	2052	A	COFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	PLASTOCRETE 151	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	05/01/88	2053	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	POLYHEED 997	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	213	A	CONFORMS TO AASHTO M194 (ASTM C494) WAS POZZOLITH POLYHEED. 1/98 SIMILAR TO REGULAR POLYHEED.
02040.10	TYPE A ADMIXTURE WATER REDUCER	POLYHEED FC 100	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	03/11/99	1903	A	CONFORMS TO AASHTO M197 (ASTM C494) ALSO USED AS TYPE C AND E WATER REDUCING ACCELERATOR.
02040.10	TYPE A ADMIXTURE WATER REDUCER	POZZOLITH 100XR	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2055	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	POZZOLITH 200N	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	01/11/96	1428	A	CONFORMS TO AASHTO M194 (ASTM 494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	POZZOLITH 300N	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2057	A	CONFORMS TO AASHTO M194 (ASTM 494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	POZZOLITH 322N	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2059	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	POZZOLITH 80	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1477	A	CONFORMS TO AASHTO M194 (ASTM C494) SAME AS MBL 80 (ADDED 1/96)

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02040.10	TYPE A ADMIXTURE WATER REDUCER	POZZOLITH 82	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1478	A	CONFORMS TO AASHTO M194 (ASTM C494) SAME AS MBL 82 (ADDED 1/96)
02040.10	TYPE A ADMIXTURE WATER REDUCER	PROKRETE N	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	766	A	CONFORMS TO AASHTO M194 (ASTM (ASTM C 494).
02040.10	TYPE A ADMIXTURE WATER REDUCER	RHEOBUILD 1000	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1353	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	SIKAMENT 86	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	08/05/88	328	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	WRDA	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2070	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE A ADMIXTURE WATER REDUCER	WRDA 20	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	01/10/02	2484	A	CONFORMS TO AASHTO M194 TYPE A
02040.10	TYPE A ADMIXTURE WATER REDUCER	WRDA 27	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	01/10/02	2473	A	CONFORMS TO AASHTO M194 TYPE A
02040.10	TYPE A ADMIXTURE WATER REDUCER	WRDA 64	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	01/13/94	1078	A	THE MANUFACTURER SUBMITTED DOCUMENTATION INDICATING IT MEETS ASTM C-494.
02040.10	TYPE A ADMIXTURE WATER REDUCER	WRDA-79	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2071	A	CONFORMS TO AASHTO M194 (ASTM C 494)

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02040.10	TYPE A ADMIXTURE WATER REDUCER	WRDA-82	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	08/08/91	771	A	CONFORMS TO ASTM C 494. TESTS BEING PROCESSED TO CONFIRM SET RETARDATION WITH HIGHER DOSES.
02040.10	TYPE B ADMIXTURE SET RETARDER	CONCHEM 25 DP FORMERLY PDA 25 DP	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503-624-7911	05/01/88	764	A	CONFORMS TO AASHTO M194 (ASTM C494). MODIFICATION OF A PURIFIED AND DESUGARED LIGNOSULFONIC ACID.
02040.10	TYPE B ADMIXTURE SET RETARDER	DARATARD	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2037	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE B ADMIXTURE SET RETARDER	DARATARD 17	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	1883	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE B ADMIXTURE SET RETARDER	DARATARD HC	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2038	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE B ADMIXTURE SET RETARDER	MB-HC	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2046	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE B ADMIXTURE SET RETARDER	PLASTIMENT	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 WHITE CAP 503/287-4151 ATLAS SUPPLY 800/806-7952	05/01/88	2051	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE B ADMIXTURE SET RETARDER	POZZOLITH 100XR	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2055	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE B ADMIXTURE SET RETARDER	POZZOLITH 300R	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2058	A	CONFORMS TO AASHTO M194 (ASTM C494)

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02040.10	TYPE B ADMIXTURE SET RETARDER	RHEOBUILD 716	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1354	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE C ADMIXTURE ACCELERATOR	DARASET 200	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	11/10/99	1881	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE C ADMIXTURE NON CHLORIDE	POZZOLITH NC 534	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	06/10/99	1879	A	CONFORMS TO AASHTO M194 (ASTM C494); USING RIGHT ACCELERATOR, MAY SEE UP TO 3000 PSI IN ONE HOUR.
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	555A	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2073	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	BORAL ACN WAS MONEX ACN	BORAL MATERIAL TECHNOLOGIES 210/349-4069	07/12/01	1740	A	
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	DARASET	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	1360	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	DAREX SET ACCELERATOR	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2040	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	DCI	W.R. GRACE & CO. 800/753-9622 KEN DZIOBA 206/675-0012	02/13/92	543	A	CALCIUM NITRATE SOLUTION FOR SET ACCELERATION ONLY. LONG TERM EFFECTS AS A CORROSION INHIBITOR UNKNOWN.
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	POLARSET	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	12/14/95	1406	A	CONFORMS TO AASHTO M194 (ASTM C494)

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02040.10	TYPE C ADMIXTURE SET ACCELERATOR	POLYHEED FC 100	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	03/11/99	1903	A	CONFORMS TO AASHTO M197 (ASTM C494) ALSO USED AS TYPE A AND E WATER REDUCING ACCELERATOR.
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	POZZUTEC 20	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	212	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	RHEOCRETE CNI	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	06/10/99	1880	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCER/RETARDER	FR - 1	FRITZ-PAK 888/746-4116 MASONS SUPPLY 800/537-3407	07/13/00	2147	A	CONFORMS TO AASHTO M 194 (ASTM C 494).
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	BORAL LR WAS MONEX LR	BORAL MATERIAL TECHNOLOGIES 210/349-4069	09/13/01	1732	A	
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	BORAL TR FORMERLY MONEX TR	BORAL MATERIAL TECHNOLOGIES 210/349-4069	06/14/01	1735	A	CONFORMS TO AASHTO M194
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	CONCHEM 25 DP FORMERLY PDA 25 DP	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503-624-7911	05/01/88	764	A	CONFORMS TO AASHTO M194 (ASTM C494). MODIFICATION OF A PURIFIED AND DESUGARED LIGNOSULFONIC ACID.
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	DARATARD	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2037	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	DARATARD 17	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	1883	A	CONFORMS TO AASHTO M194 (ASTM C494)

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02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	DARATARD HC	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	2038	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	MB-HC	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2046	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	PLASTIMENT	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 WHITE CAP 503/287-4151 ATLAS SUPPLY 800/806-7952	05/01/88	2051	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	PLASTOCRETE 151	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	05/01/88	2053	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	POZZOLITH 100XR	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2055	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	POZZOLITH 300R	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2058	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE D ADMIXTURE WATER REDUCING RETARDER	RHEOBUILD 716	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1354	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE E ADMIXTURE WATER REDUCING/ACCELERATI	POLYHEED FC 100	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	03/11/99	1903	A	CONFORMS TO AASHTO M197 (ASTM C494) ALSO USED AS TYPE A AND C WATER REDUCING ACCELERATOR.
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA 100	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	11/10/99	1954	A	CONFORMS TO AASHTO M194 (ASTM C494). MIGHT USE WITH DARAVAIR 1000 OR DAREX II FOR ENTRAINED AIR.

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02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	ADVA 140	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	06/13/02	2599	A	CONFORMS TO AASHTO M194
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER	BORAL SP FORMERLY MONEX SP	BORAL MATERIAL TECHNOLOGIES 210/349-4069	06/14/01	1738	A	CONFORMS TO AASHTO M194
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	ADVA CAST	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	09/11/97	1661	A	CONFORMS TO AASHTO M194
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	ADVA FLOW	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	09/11/97	1662	A	CONFORMS TO AASHTO M194
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	BORAL RD2 WAS MIGHTY RD2	BORAL MATERIAL TECHNOLOGIES 210/349-4069	05/01/88	2049	A	
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	BORAL SP150 WAS MIGHTY 150 AND BORAL 150	BORAL MATERIAL TECHNOLOGIES 210/349-4069	05/01/88	2050	A	
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	CONCHEM PSP-L OR SPL FORMERLY PSP-N2	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503-624-7911	05/01/88	765	A	
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	DARACEM 100	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	06/09/94	1154	A	INDEPENDENT TEST RESULTS MEET OUR SPECIFICATIONS.
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	EUCON 37	EUCLID CHEMICAL COMPANY 800/321-7628 OR 216/531-9222 WILLIAMS FORM 503/286-3647	06/01/89	1357	A	

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02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	FRITZ SUPERCIZER 1	FRITZ-PAK 888/746-4116 MASONS SUPPLY 800/537-3407	09/10/92	901	A	CONFORMS TO AASHTO M 194 (ASTM C 494). DESIGNED AS SLUMP CONTROL W/O ADDING MORE WATER. SUBMIT WITH MIX DESIGN.
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	FRITZ SUPERCIZER 5	FRITZ-PAK 888/746-4116 MASONS SUPPLY 800/537-3407	09/10/92	902	A	CONFORMS TO AASHTO M 194 (ASTM C 494). SUPERPLASTICIZER CAN REDUCE WATER REQUIREMENTS UP TO 25%. SUBMIT W/MIX DESIGN
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	FRITZ SUPERCIZER 6	FRITZ-PAK 888/746-4116 MASONS SUPPLY 800/537-3407	09/10/92	903	A	CONFORMS TO AASHTO M 194 (ASTM C 494). PREMIUM "SUPER". CAN REDUCE WATER REQUIREMENTS UP TO 40%. SUBMIT W/MIX DESIGN
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	GLENIUM 3000 NS WAS RHEOBUILD 3000 FC	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	03/11/99	1904	A	CONFORMS TO AASHTO M197 (ASTM C494)
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	POZZOLITH 400N	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2060	A	
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	POZZOLITH 440N	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	03/14/91	704	A	MEETS OUR SPECS. (ASTM C494)
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	RHEOBUILD 1000	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1353	A	
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	RHEOBUILD 2500	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	06/13/96	1465	A	
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKAMENT 300	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	05/01/88	2067	A	

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02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SIKAMENT 86	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	08/05/88	328	A	CONFORMS TO AASHTO M194 (ASTM C494)
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	WRDA-19	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/01/88	1565	A	ALSO KNOWN AS DARACEM 19
02040.10	TYPE F ADMIXTURE MIDRANGE WATER REDUCER	MIRA 70	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	04/13/01	2434	A	CONFORMS TO AASHTO M194 (ASTM C494) MIDRANGE WATER REDUCER.
02040.10	TYPE F ADMIXTURE WATER REDUCER	POLYHEED 997	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	03/11/99	213	A	CONFORMS TO AASHTO M197 (ASTM C494) QUALIFIED AS TYPE A CONCRETE ADMIXTURE.
02040.10	TYPE G ADMIXTURE HI RNGE H2O REDUCE/RETARD	BORAL RD-1 FORMERLY MONEX RD-1	BORAL MATERIAL TECHNOLOGIES 210/349-4069	06/14/01	1739	A	CONFORMS TO AASHTO M194
02040.10	TYPE G ADMIXTURE HI RNGE H2O REDUCE/RETARD	DARACEM 100	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	08/08/96	1154	A	INDEPENDENT TEST RESULTS MEET OUR SPECS.
02040.10	TYPE G ADMIXTURE HI RNGE H2O REDUCE/RETARD	POZZOLITH 430R	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	2061	A	
02040.10	TYPE G ADMIXTURE HI RNGE H2O REDUCE/RETARD	RHEOBUILD 716	MASTER BUILDERS 216/831-5500 GARY WOJTECH 503/624-7911 BOB ALLEN 503/624-7911	05/01/88	1354	A	
02040.10	TYPE G ADMIXTURE HI RNGE H2O REDUCER/RETAR	FRITZ-PAK SUPERCIZER 7	FRITZ-PAK 888/746-4116 MASON'S SUPPLY 800/537-3407	07/12/01	2146	A	

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02040.30	ADMIXTURE, CONCRETE, MISC BONDING ENHANCER	ACRYL SET	MASTER BUILDERS 800/227-3350 BRUCE JACKSON 503-722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 503/287-4151	05/01/88	2033	A	FOLLOW MANUFACTURER'S INFO FOR APPLICATION AND USE. THIS SHOULD ONLY BE USED AS AN ADMIXTURE.
02050.10	CURING COMPOUND, CONCRETE TYPE 1, CLASS A	SEALTIGHT 1300 CLEAR OREGON VOC'S = 18G/L	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 CONCR SPECIAL TIE 503/661-2350	05/01/88	776	Q	CLEAR WAX. WATCH SHELF LIFE. TEST BY LOT, EXCEPT MSC OK IF PRODUCT IS ON QPL.
02050.10	CURING COMPOUND, CONCRETE TYPE 1, CLASS A VOC'S = 45G/L	WAX EMULSION CURE (CLEAR)	BURKE COMPANY 888/287-5387 WHITE CAP 503/287-4151	05/01/88	2138	Q	CLEAR RESIN. WATCH SHELF LIFE TEST BY LOT, EXCEPT MSC OK IF PRODUCT IS ON QPL.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A	L & M CURE W-2 VOC = 25 G/L	L & M CONSTRUCTION CHEMICALS 800/362-3331 OR 420/453-6600 BILL PAVITT 425/562-6076	07/09/92	850	Q	WATERBASED. MIX WELL. TEST BY LOT, EXCEPT MSC OK IF PRODUCT IS ON THE QPL.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A VOC'S = 18 G/L	SEALTIGHT 1635	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572	03/09/00	1038	Q	WHITE WAX. WATCH SHELF LIFE. TEST BY LOT, EXCEPT MSC OK IF PRODUCT IS ON QPL.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A VOC'S = 42/L	AMERICAN WHITE WAX DOT CURE	AMERICAN CONCRETE SYSTEMS INC REP: JAN WINN 619/578-5270 WESTSIDE CONCRETE ACCESSORIES BRIAN MCALLISTER 503/591-0203	02/13/92	832	Q	WHITE WAX. MIX WELL. TEST BY LOT, EXCEPT MSC OK IF ON QPL.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A VOC'S = 45 G/L	BURKE WAX EMULSION D.O.T.	BURKE COMPANY 800/456-7445 WHITE CAP 800/452-2994	05/01/88	2075	Q	WHITE WAX. MIX WELL. TEST BY LOT, EXCEPT MSC OK IF ON QPL.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A & B	SEALTIGHT 1200 VOC'S = 69G/L	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 CONCR SPECIAL TIE 503/661-2350	08/08/91	760	Q	WHITE RESIN. WATCH SHELF LIFE TEST BY LOT, EXCEPT MSC OK IF PRODUCT IS ON QPL.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A & B VOC'S = 0G/L	SEALTIGHT 2200 WHITE	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 CONCR SPECIAL TIE 503/661-2350	05/01/88	1479	Q	WHITE RESIN. WATCH SHELF LIFE TEST BY LOT, EXCEPT MSC OK IF PRODUCT IS ON QPL.

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02050.10	CURING COMPOUND, CONCRETE WHITE PIGMENTED, MEETS VOC'S = 0 G/L AASHTO M148.	BURKE WAX EMULSION (FAST DRY) D.O.T.	BURKE COMPANY 800/456-7445 WHITE CAP 800/452-2994	05/01/88	2074	Q	WHITE WAX. MIX WELL. TEST BY LOT, EXCEPT MSC OK IF ON QPL.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	HYDROZO SILANE 40VOC WAS HYDROZO SILANE 40 IPA	CHEMREX-SONNEBORN 800/327-1570 CUSTOMER SERVICE: 800/433-9517 TECH SERVICE: 800/243-6739 REP: ROB BECHTEL 425/392-1876	08/01/89	714	A	QUALIFIED BY BRIDGE SECTION PASSES ALBERTA AND FLORIDA IPA=ISOPROPOL ALCOHOL. SILANE, 40% SOLIDS.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	PERMA-SEAL 444	PILGRIM PERMOCOAT CO PO BOX 945 TAMPA FL 33601 WILLIAMS CONCRETE 503/286-3647	12/01/89	2081	A	QUALIFIED BY BRIDGE SECTION PASSES BOTH ALBERTA AND FLORIDA DOT CRITERIA. SILANE, 40% SOLIDS.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SIL-ACT ATS 42	ADVANCED CHEMICAL TECHNOLOGIES 2601 NW EXPRESSWAY OKLAHOMA CITY, OK 73112 405/873-2585	06/23/88	18	A	QUALIFIED BY BRIDGE SECTION PASSES BOTH ALBERTA AND FLORIDA DOT CRITERIA. SILANE, 40% SOLIDS.
02060.00	CRACK SEALER-METHACRYLATE	SIKA PRONTO 19	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 WHITE CAP 503/287-4151 ATLAS SUPPLY 800/806-7952	08/05/88	189	A	PENETRATED WELL ON BR #8589 W/ FINE CRACKS. ROLLER & SQUEEGEE. RESTORES SOME STRENGTH. SAND- BLAST. PLUG BOTTOM OF CRACK.
02060.00	EPOXY CRACK INJECTION	EVA-POX #36 ALL TEMP. FLEX RESIN	E-POXY ENGINEERED MATERIALS LUISA FLORES 888/999-2463 MASON'S SUPPLY 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/01/88	44	A	MAY BE USED FOR CRACKS W/O INJ REFER TO MANUF FOR USES, NOT FOR STRUCTURAL. HAS BEEN USED TO SEAL ARMORED IMPACT PANELS.
02060.00	EPOXY CRACK INJECTION	EVA-POX #4 INJECTION RESIN	E-POXY ENGINEERED MATERIALS LUISA FLORES 888/999-2463 MASON'S SUPPLY 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/01/88	48	A	MAY BE USED TO INJECT CRACKS, REFER TO MANUFACTURER FOR SUITABLE USES. STRUCTURALLY WELDS CRACKS. 100% SOLIDS.
02060.00	EPOXY CRACK INJECTION	SCB CONCRETSIVE 1350 WAS CONCRETSIVE 1050-15	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 800/492-2994	05/01/88	716	A	FORMERLY CONCRETSIVE 1050-15 USE TO STRUCTURALLY WELD CRACKS USE MFG APPROVED INSTALLERS. (WAS CONCRETSIVE 1350 1/15/00)
02060.00	EPOXY CRACK INJECTION	SCB CONCRETSIVE 1360 WAS CONCRETSIVE 1468	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 800/452-2994	05/01/88	715	A	FORMERLY CALLED CONCRETSIVE 146 REFER TO MANUF FOR SUITABLE USES & INSTALLERS. 100% SOLIDS WELDS CRACKS STRUCTURALLY.

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02060.00	EPOXY SEALER	DURAL 330 PENETRATING SEALER	TAMMS INDUSTRIES, 800/218/2667 WILLIAMS CONCRETE 503/286-3647 MASON'S SUPPLY 800/537-3407	05/01/88	2084	A	HAIRLINE CRACKS ONLY. 25% SOLIDS EPOXY. INCREASES THE STRENGTH OF THE TREATED AREA. REP: DAVE DILLION 425/820-4576
02060.00	EPOXY SEALER	MASTERSEAL GP CONCRESEIVE 3042 AND PENSEAL 50	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 800/452-2994	05/01/88	32	A	HAIRLINE CRACKS ONLY. 50% SOLIDS EPOXY. ROLLER APPL. WILL REDUCE SKID RESISTANCE SO TRAVEL LANES NOT RECOMMENDED.
02060.00	EPOXY SEALER	PERMSEAL 50	E-POXY ENGINEERED MATERIALS LUIA FLORES 888/999-2463 MASON'S SUPPLY 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/01/88	42	A	HAIRLINE CRACKS ONLY. 50% SOLIDS EPOXY. APPLY W/ROLLER OR BRUSH. MIN TEMP: 4.4 DEG C. DRY SURFACE. INCREASES STRNGTH
02060.10	EPOXY CONCRETE	CEVA PATCH 120	E-POXY ENGINEERED MATERIALS LUIA FLORES 888/999-2463 MASON'S 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/01/88	43	A	FOLLOW MANUF. INSTALLATION INSTRUCTIONS. S/B SANDBLASTED AND CLEAN. GOOD WITH ASPHALT, CONCRETE, AND STEEL SURFACES.
02060.10	EPOXY CONCRETE	CONCRESEIVE 2020 METHYL-METHACRYLATE	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 503/287-4151	05/01/88	25	A	GENERALLY REQUIRES FORMING. USE ON FULLY CURED CONCRETE. NOT RECOM FOR EXPOSURE TO HIGH CONTIN. LOADS UNLESS CONFINED.
02060.10	EPOXY CONCRETE	FURANE 8412	FURANE 5121 SAN FERNANDO RD. WEST, LOS ANGELES, CALIFORNIA 90039	05/01/88	2085	A	
02070.10	BONDING AGENT, EPOXY	BURKEPOXY MV PATCH AND BOND EPOXY	BURKE COMPANY 800/456-7445 WHITE CAP 800/452-2994	05/01/88	284	A	USED ON TABLE ROCK- VILAS RD SECTION.
02070.10	BONDING AGENT, EPOXY	CONCRESEIVE LIQUID LPL (FORMERLY CONCRESEIVE 1001 LPL)	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 800/452-2994	05/01/88	654	A	
02070.10	BONDING AGENT, EPOXY	PERMAGILE BOND-1	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 MASON'S SUPPLY 800/537-3407	04/13/90	191	A	WORKED GOOD ON HWY PROJECT

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02070.10	BONDING AGENT, EPOXY	RESCON R649 EPOXY BONDER (FORMERLY NIKLEPOXY 19)	SYMONS CORP 303/287-7531 DARRYL ANDERSON 800/800-7628 TECH: JERRY FORD 847/298-3200 MASONS 800/537-3407	05/01/88	712	A	USED IN CORVALLIS ON 6/19/87 PAUL MEYERS CONTACT PERSON WAS RESCON UNTIL 12/92
02070.20	BONDING AGENT, NON-EPOXY	TARGET POLYMER BONDING AGENT	TARGET PRODUCTS 604/420-3620 MC HUGH & ASSO. 800/255-0999 WHITE CAP 503/287-4151 WILLAMETTE GRYSTN 541/726-7666	05/01/88	1194	A	
02070.20	BONDING AGENT, NON-EPOXY	THOROC ACRYLIC MODIFIER WAS: NITOBOND ACRYLIC	CHEMREX 800/327-1570 BRUCE JACKSON, 503/722-4101 MASONS SUPPLY 800/537-3407	07/07/88	222	A	MEETS ASTM C-1059
02080.10	GROUT, EPOXY	CONCRETSIVE LIQUID LPL (FORMERLY CONCRETSIVE 1001 LPL)	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407 WHITE CAP 800/452-2994	05/01/88	654	A	
02080.10	GROUT, EPOXY	DURALCRETE	TAMMS INDUSRIES, 800/218-2667 WILLIAMS CONCRETE 503/286-3647 MASONS SUPPLY 800/537-3407	05/01/88	1195	A	REP: DAVE DILLION 425/820-4576
02080.10	GROUT, EPOXY	EAS-8	QCM COMPANY 930 S. CENTRAL KENT, WA 98032 800/321-0170	12/07/89	475	A	MEETS ASTM C881 SPECS.
02080.10	GROUT, EPOXY	EAS-8 LPL	QCM COMPANY 930 S. CENTRAL KENT, WA 98032 800/321-0170	12/07/89	474	A	EFFECTIVE FOR PATCHING PCC
02080.20	GROUT, CABLE	MASTERFLOW 816 CABLE GROUT	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407 WHITE CAP 800/452-2994	09/14/00	2238	Q	SPECIALLY DESIGNED FOR USE AS GROUT IN A POST TENSION DUCT.
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	1107 ADVANTAGE GROUT	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASONS SUPPLY 800/537-3407 WHITE CAP 503/287-4151	12/10/98	1427	A	NON SHRINK, NON METALLIC, NON CORROSIVE CEMENTITIOUS GROUT. DO NOT MIX ADDITIVES TO THIS GROUT. 10 TO 27 DEG C. BEST.

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02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	BURKE #621 STANDARD GROUT	BURKE COMPANY 800/456-7445 WHITE CAP 800/452-2994	01/01/90	416	A	
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	FIVE STAR INSTANT GROUT	FIVE STAR PRODUCT 800/243-2206 JOHN TRAUGER 909/689-5500 WILLIAMS CONCRETE 503/286-3647 MASONS SUPPLY 800/537-3407	05/01/88	1216	A	FIVE STAR WAS U.S. GROUT.
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	MASTERFLOW 713 GROUT	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407 WHITE CAP 800/452-2994	05/01/88	650	A	
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	MASTERFLOW 928 GROUT	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407 WHITE CAP 800/452-2994	10/01/89	449	A	
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	NBEC NON-SHRINK GROUT	FIVE STAR PRODUCT 800/243-2206 JOHN TRAUGER 909/689-5500 WILLIAMS CONCRETE 503/286-3647 MASONS SUPPLY 800/537-3407	05/01/88	7	A	FIVE STAR WAS U.S. GROUT.
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	SONOGROUT 10 K	CHEMREX - SONNEBORN DICK HURLEY 360/896-4322 SCOTT MARTIN 503/682-0592 WHITE CAP 800/452-2994	03/14/96	1017	A	SHELF LIFE OF ONLY 9 MONTHS IN UNOPENED PACKAGE. MANUFACTURER RECOMMENDS MIXING FOR UP TO 5 MIN. AND THEN PLACING.
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	TARGET PORTLAND EXPANDING GROU	TARGET PRODUCTS 604/420-3620 MC HUGH & ASSO. 800/255-0999 WHITE CAP 503/287-4151 WILLAMETTE GRYSTN 503/726-7666	12/17/93	668	A	NON-SHRINK GROUT.
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	THOROC 621 CONSTRUCTION GROUT WAS CONBEXTRA 621 BY FOSROC	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/01/88	251	A	MANUFACTURER EXPECTS 24-HR MIN. STRENGTHS OF 4000 PSI. MIN. 28 DAY STR. 5000 PSI.
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	THOROC HF PRECISION GROUT	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101. MASONS SUPPLY 800/537-3407	05/01/88	2189	A	FORMERLY "FOSROC CONBEXTRA S" CEMENTITIOUS

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02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	THOROC S GROUT	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101. MASONS SUPPLY 800/537-3407	05/01/88	221	A	PRODUCT WAS CONBEXTRA S. CEMENTITIOUS
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK	UPCON MULTI-PURPOSE GROUT	UPCON BY BOSTIK CONST. 800/221-8726 WHITE CAP 503/287-4151 800/452-2994	05/01/88	10	A	
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK CEMENTITIOUS	CONSTRUCTION GROUT	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407 WHITE CAP 800/452-2994	04/11/96	1256	A	
02080.20	GROUT, NON-EPOXY ACCEPTABLE AS NON-SHRINK CEMENTITIOUS	THOROC 747 RAPID SET GROUT WAS CONBEXTRA 747 BY FOSROC.	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/01/88	252	A	FORMERLY KNOWN AS "FOSROC CONBEXTRA 747"
02080.20	GROUT, NON-EPOXY ACCETABLE AS NON-SHRINK CEMENTITIOUS W/ FLYASH	HORN NON-METALLIC GROUT	TAMMS INDUSTRIES, 800/218-2667 REP: DAVE DILLON 425/820-4576	06/11/98	1425	A	HI EARLY MIX. DO NOT MIX WITH ADMIXTURES OR FLUIDIFIERS. CURE PROPERLY!
02080.30	GROUT, KEYWAY	1107 ADVANTAGE GROUT	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASONS SUPPLY 800/537-3407 WHITE CAP 503/287-4151	12/10/98	1427	A	NON SHRINK, NON METALLIC, NON CORROSIVE CEMENTITIOUS GROUT. DO NOT MIX ADDITIVES TO THIS GROUT. 10 TO 27 DEG C. BEST.
02080.30	GROUT, KEYWAY	BURKE #621 STANDARD GROUT	BURKE COMPANY 800/456-7445 WHITE CAP 800/452-2994	01/01/90	416	A	
02080.30	GROUT, KEYWAY	FIVE STAR INSTANT GROUT	FIVE STAR PRODUCT 800/243-2206 JOHN TRAUGER 909/689-5500 WILLIAMS CONCRETE 503/286-3647 MASONS SUPPLY 800/537-3407	05/01/88	1216	A	FIVE STAR WAS U.S. GROUT.
02080.30	GROUT, KEYWAY	MASTERFLOW 713 GROUT	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407 WHITE CAP 800/452-2994	05/01/88	650	A	

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02080.30	GROUT, KEYWAY	MASTERFLOW 928 GROUT	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 800/452-2994	10/01/89	449	A	
02080.30	GROUT, KEYWAY	NBEC NON-SHRINK GROUT	FIVE STAR PRODUCT 800/243-2206 JOHN TRAUGER 909/689-5500 WILLIAMS CONCRETE 503/286-3647 MASON'S SUPPLY 800/537-2307	05/01/88	7	A	FIVE STAR WAS U.S. GROUT.
02080.30	GROUT, KEYWAY	SIKATOP 122 REPAIR MORTAR	SIKA CORP 800/222-7452 THAD BROWN 425/486-5916 WHITE CAP 503/287-4151 ATLAS SUPPLY 800/806-7952	05/01/88	85	A	FIELD EVALUATION.
02080.30	GROUT, KEYWAY	SONOGROUT 10K	CHEMREX - SONNEBORN DICK HURLEY 360/896-4322 SCOTT MARTIN 503/682-0592 WHITE CAP 800/452-2994	03/14/97	1017	A	SHELF LIFE IS ONLY 9 MONTHS FOR UNOPENED PACKAGES. MANUFACTURER RECOMMENDS MIXING 5 MIN. THEN PLACEMENT.
02080.30	GROUT, KEYWAY	TARGET PORTLAND EXPANDING	TARGET PRODUCTS 604/420-3620 MC HUGH & ASSO. 800/255-0999 WHITE CAP 503/287-4151 WILLAMETTE GRYSTN 503/726-7666	05/01/88	668	A	
02080.30	GROUT, KEYWAY	THOROC 621 CONSTRUCTION GROUT WAS CONBEXTRA 621 BY FOSROC	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407	03/12/98	251	A	CHEMREX PARENT, THOROC CHILD. MANUFACTURER EXPECTS 24-HR MIN. STRENGTH OF 4000 PSI. MIN. 28-DAY STR. 5000 PSI.
02080.30	GROUT, KEYWAY	UPCON MULTI-PURPOSE GROUT	UPCON BY BOSTIC CONST. 800/221-8726 WHITE CAP 503/287-4151	05/01/88	10	A	LAB 85-20670 & 85-20671.
02080.30	GROUT, KEYWAY CEMENTITIOUS W/ FLYASH	HORN NON-METALLIC GROUT	TAMMS INDUSTRIES, 800/218-2667 REP: DAVE DILLON 425/820-4576	06/11/98	1425	A	HI EARLY MIX. DO NOT MIX WITH ADMIXTURES OR FLUIDIFIERS. CURE PROPERLY!
02080.30	GROUT, KEYWAY CEMENTITIOUS	CONSTRUCTION GROUT	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 800/452-2994	04/11/96	1256	A	

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02080.30	GROUT, KEYWAY CEMENTITIOUS	THOROC 747 RAPID SET GROUT WAS CONBEXTRA 747 BY FOSROC	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/12/88	252	A	
02080.30	GROUT, KEYWAY CEMENTITIOUS	THOROC HF PRECISION GROUT WAS CONBEXTRA HF BY FOSROC.	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	12/10/92	2189	A	UP TO 55 MPA @ 28 DAYS. 13MM TO 127MM GAPS. MIX WELL. PRE-SATURATE THE FOUNDATION THEN REMOVE EXCESS WATER.
02080.30	GROUT, KEYWAY CEMENTITIOUS	THOROC S GROUT WAS THOROC CONBEXTRA S	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/01/88	221	A	UP TO 41 MPA @ 28 DAYS. PRE-SATURATE THE FOUNDATION THEN REMOVE EXCESS WATER. WAS CONBEXTRA S BY FOSROC.
02110.20	GUARDRAIL BLOCKS, PLASTIC	CENTRAL II	UNIVERSAL INDUSTRIAL SALES 801/785-0505	08/10/00	2197	A	RECYCLED PLASTIC BLOCK FOR GUARDRAIL INSTALLATIONS.
02110.20	GUARDRAIL BLOCKS, PLASTIC	DURA-BULL BLOCKOUT	CREATIVE BUILDING PRODUCTS 219/432-7158	12/12/96	1520	A	RECYCLED PLASTIC BLOCK FOR GUARDRAIL INSTALLATIONS. SPECIAL PROVISION SP00810
02110.20	GUARDRAIL BLOCKS, PLASTIC	KING BLOCK	TRINITY INDUSTRIES CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559	01/10/02	2520	A	THIS MODEL IS FOR STEEL POSTS ONLY. 52% HDPE, 45% GROUND RUBBER.
02110.20	GUARDRAIL BLOCKS, PLASTIC	LIFETIME BLOCKOUTS	LIFETIME LUMBER PRODUCTS 419/478-9000	01/11/01	2355	A	RECYCLED COMPOSITE BLOCK FOR GUARDRAIL INSTALLATIONS.
02110.20	GUARDRAIL BLOCKS, PLASTIC	MONDO BLOCK	MONDO POLYMER TECHNOLOGIES RENO, OHIO; 614/376-9396	01/08/98	1715	A	THE "NOTCHED" BLOCK SHOULD BE USED ON STEEL G.R.POSTS. FOR WOOD POSTS, USE BLOCK MADE WITHOUT THE NOTCH.
02110.20	GUARDRAIL BLOCKS, PLASTIC	POLY LUMBER	RAMCO INTERNATIONAL 302/539-0414	03/09/00	2176	A	RECYCLED PLASTIC BLOCK FOR GUARDRAIL INSTALLATIONS.

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02110.20	GUARDRAIL BLOCKS, PLASTIC	TREX/TIMBREX	TREX COMPANY, LLC RALPH T. BRUNO 540/678-4091 KAREN C. SHEETZ 540/678-1820	03/13/97	540	A	APPROVED BY FHWA. SHOULD NOT BE USED WITH STEEL POSTS.
02190.30	WOOD, FIELD PRESERVATIVE TREATMENT	10-9-0 GREEN F.O. WAS CSI GREEN F.O.	COPPER CARE WOOD PRESERVATIVE JUDY CHERRY 800/473-2563; 402/563-2663	08/10/95	1373	A	THIS IS A 2% COPPER NAPHTHENATE DESIGNED FOR USE IN THE FIELD. DOES NOT REQUIRE THE APPLICATOR TO BE LICENSED.
02190.30	WOOD, FIELD PRESERVATIVE TREATMENT	JASCO TERMIN 8 GREEN	JASCO CHEMICAL CORPORATION 714/547-6951	10/14/99	1997	A	CONTAINS 2% COPPER NAPHTHENATE
02210.00	STRUCTURE COATING, TEMP.	ZERO RUST	AMTECO, INC 314/271-1300 BRUCE PALMER 503/363-4960	06/12/97	1527	A	NOT FOR LONG TERM FIXES.
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	ACRYTUFF # 87G102	FORREST PAINT EUGENE, OR 97402 REP:MICHAEL JACKSON 541/342-1821	05/09/96	1438	A	SPECIALLY FORMULATED TO MEET OUR 100-82 FORMULA. ORIGINALLY: 99-87J24-04-0
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	MILLER EXTERIOR ACRYLIC	MILLER PAINT CO 317 SE GRAND AVE PORTLAND OR 97214 503/233-4491	05/01/88	1721	A	DESIGNED TO MEET THE ODOT EMULSION FORMULA 100-82.
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	NORRIS EXTERIOR ACRYLIC	TMT PATHWAY 1675 COMMERCIAL ST NE SALEM OR 97303 800/835-3357	05/01/88	2096	A	DESIGNED TO MEET ODOT EMULSION FORMULA 100-82. PREVIOUSLY, KNOWN AS MORTON INTERNATIONAL.
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	RODDA EXTERIOR ACRYLIC #24735	RODDA PAINT 12000 SW GARDEN PLACE PORTLAND OR 97223 503/521-4300	05/01/88	1326	A	DESIGNED TO MEET ODOT EMULSION FORMULA 100-82. CONCRETE GRAY
02410.10	CONCRETE PIPE-NON REINF.	AMCOR CONCRETE PIPE	AMCOR (OLDCASTLE) 208/465-0176	08/08/02	2631	A	PLANT IS IN NAMPA IDAHO.

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02410.20	CONCRETE PIPE-REINFORCED	AMCOR CONCRETE PIPE	AMCOR (OLDCASTLE) 208/465-0176	08/08/02	2631	A	PLANT IS IN NAMPA IDAHO.
02410.60	POLYETHYLENE PIPE NON WATER-TIGHT	ADS SERIES 85-IB N-12 PIPE WITH INTEGRAL BELLS	ADVANCED DRAINAGE SYSTEMS, INC MIKE WHALEY 415/935-7340 JEFF BECK 425/392-5757 SCOTT GORDANIER 800/733-8523	08/13/98	469	A	APPROVED FOR NON WATER-TIGHT APPLICATIONS. 300 TO 1200 MM DIAMETERS. FILLS OF 300 TO 4500 MM TO TOP OF SUBGRADE.
02410.60	POLYETHYLENE PIPE NON WATER-TIGHT	HANCOR SURELOK F-477	HANCOR, 888/367-7473 JIM WILEY 253/926-3041 SCOTT KRUSE 503/314-5899 SUSAN MCCULLOUGH 360/210-5340	01/25/99	1890	A	APPROVED FOR NON WATER-TIGHT APPLICATIONS. 300 TO 1200 MM DIAMETERS. FILLS OF 300 TO 4500 MM TO TOP OF SUBGRADE.
02410.60	POLYETHYLENE PIPE WATER-TIGHT	ADS PRO-LINK ULTRA WT IB N-12 PIPE. SERIES 65 IB	ADVANCED DRAINAGE SYSTEMS, INC MIKE WHALEY 415/935-7340 JEFF BECK 425/392-5757 SCOTT GORDANIER 800/733-8523	08/08/02	2482	A	DOUBLE WALL, CORRUGATIONS. APPROVED FOR WATER-TIGHT APPS. 12"-48" (300 TO 1200 MM) DIA. HAS REINFORCED BELL.
02410.60	POLYETHYLENE PIPE WATER-TIGHT	ADS PRO-LINK WT N-12 PIPE. SERIES 65 WB	ADVANCED DRAINAGE SYSTEMS, INC MIKE WHALEY 415/935-7340 JEFF BECK 425/392-5757 SCOTT GORDANIER 800/733-8523	08/13/98	469	A	DOUBLE WALL, CORRUGATIONS. APPROVED FOR WATER-TIGHT APPS. 300 TO 1200 MM DIAMETERS. 300 TO 4500 MM FILL HEIGHTS.
02410.60	POLYETHYLENE PIPE WATER-TIGHT DIAMETERS 100 AND 200 MM.	HANCOR SURELOK WT	HANCOR, 888/367-7473 JIM WILEY 253/926-3041 SCOTT KRUSE 503/314-5899 SUSAN MCCULLOUGH 360/210-5340	01/25/99	1891	A	APPROVED FOR WATER-TIGHT APPS. 100 TO 200 MM DIAMETERS. 300 MM TO 4500 MM TO TOP OF SUBGRADE.
02410.60	POLYETHYLENE PIPE WATER-TIGHT DIAMETERS: 300 TO 1500MM.	HANCOR BLUESEAL	HANCOR, 888/367-7473 JIM WILEY 253/926-3041 SCOTT KRUSE 503/314-5899 SUSAN MCCULLOUGH 360/210-5340	04/13/01	1891	A	LOOK FOR BLUE WRAP ON SEAL FOR WATERTIGHT VERSIONS. 300 MM TO 4500 MM TO TOP OF SUBGRADE.
02410.70	PVC SANITARY SEWER STORM SEWER WATER-TIGHT	IPEX PVC ULTRA RIB PIPE	IPEX, INC. 800/663-5864 CHRIS HIEBERT	04/09/98	1508	A	STORM SEWER AND CULVERTS. 200-600MM DIA, 600-4500MM FILL NON INTERSTATE, WATER TIGHT ONLY.
02420.20	POLYMERIC COATING	TRUFLOW	OWENS CORNING REP:DENNIS ROGERS 310/435-7978 PACIFIC CORRUGATED PIPE CO. REP:LARRY WOOD 503/461-0990	04/11/96	1443	A	COATING FOR CMP. NEEDS TO COAT 100% OF THE INTERIOR AND EXTERIOR.

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02420.20	POLYMERIC COATING FOR CORRUGATED STEEL AND SPIRAL RIB PIPE	TRENCHCOAT	PACIFIC CORRUGATED PIPE LARRY WOOD 800/528-8815	03/14/02	2191	A	10 MILS POLYMERIC COATING REQUIRED ON BOTH SIDES OF PIPE TO GET 50 YEARS ADDITIONAL SERVICE LIFE.
02420.20	POLYMERIC COATING FOR CORRUGATED STEEL PIPE	TRISHIELD STEEL RIBBED POLYETHYLENE	PACIFIC CORRUGATED PIPE LARRY WOOD 800/528-8815	08/14/97	1647	A	POLYMERIC PRECOATED, POLYETHYLENE LINED GALV STEEL. APPROVED BY ODOT FOR 50 YEARS ADDITIONAL SERVICE LIFE.
02440.10	JOINT FILLER/SEALER	CONFLEX	MASONITE, CHICAGO, IL 312/634-2766	04/09/98	1493	A	FIBER EXPANSION JOINT FILLER. REISISTS BREAKAGE,HOLDS ALIGN- MENT.REISTS WTR INFILTRAT.,AND IS GOOD FOR FLATWORK.
02440.10	JOINT FILLER/SEALER	REFLEX RUBBER EXPANSION JOINT	JD RUSSELL CO. 520/742-6194 MASONS SUPPLY 800/537-3407	12/14/00	2293	A	PREFORMED EXPANSION JOINT FILLER MATERIAL. LOW TO NO MOVEMENT APPLICATIONS.
02440.11	POURED SEALANT 2 PART SILICONE	DOW 902 RCS	DOW CORNING CORPORATION JEFF RANDLE 866/768-8768 ATLAS SUPPLY 800/806-7952	11/10/94	754	A	PRIMARILY FOR BRIDGE JOINTS. DESIGN OF JOINT & CLEANLINESS IMPT. SELF LEVELING. ADHERES TO STEEL, CONCRETE OR ASPHALT.
02440.11	POURED SEALANT SILICONE	DOW 890 SL	DOW CORNING CORPORATION JEFF RANDLE 866/768-8768 ATLAS SUPPLY 800/806-7952	01/17/91	615	A	SELF LEVELING. FOR ASPHALT OR CONCR, OR COMB. NOT FOR USE ON BRIDGE JOINTS UNLESS BR OK. W/D RATIO IMPORT.MUST BE CLEAN
02440.11	POURED SEALANT SILICONE	PECORA 300	PECORA CORPORATION 800/355-8817 EXT 7520 ALBINA ASPHALT 800/888-5048	03/14/02	2358	A	NOT FOR USE ON BRIDGE JOINT SEALS. SINGLE PART PRODUCT.
02440.11	POURED SEALANT SILICONE	SEALANT 888	DOW CORNING CORPORATION JEFF RANDLE 866/768-8768 ATLAS SUPPLY 800/806-7952	05/01/88	199	A	NOT FOR USE ON BRIDGE JOINT SEALS. WIDTH AND DEPTH RATIO IMPORTANT, AS IS JOINT PREPARATION AND CLEANLINESS.
02440.20	EXPANSION JOINT, ASPHALTIC PLUG FOR MOVEMENTS OF < 50MM.	BJS	LINEAR DYNAMICS, INC. (L.D.I.) JIM DAVIS 860/567-8899 APPLICATOR: N.W JOINTS,INC. JOHN APPLETON 503/844-9867	12/10/98	1752	Q	FOR GAPS <76MM,MOVEMENTS <50MM INSTALLED IN LAYERS. MFG APPROVED INSTALLERS.

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02440.20	EXPANSION JOINT, ASPHALTIC PLUG FOR MOVEMENTS OF < 50MM.	KOCH BJS BRIDGE JOINT SYSTEM	KOCH MATERIALS CO NOW: LINEAR DYNAMICS KEVIN FRANCIS 570/546-6041 JOHN APPLETON 503/844-9867	06/10/93	731	Q	FOR GAPS <76MM, MOVEMENTS <50MM INSTALLED IN LAYERS. MFG APPROVED INSTALLERS.
02440.20	EXPANSION JOINT, MODULAR FOR MOVEMENTS OF > 89MM	WATSON BOWMAN MODULAR	WATSON BOWMAN ACME 800/677-4922 STEVE BRANDT 909/867-2161	01/18/91	616	Q	USE "SE 400 STRIP SEALS & TYPE "M1" STEEL EXTRUSIONS. SUBMIT SHOP DRAWINGS TO BRIDGE SECTION FOR EACH PROJECT.
02440.20	EXPANSION JOINT, MODULAR FOR MOVEMENTS OF > 89MM.	BRG MODULAR SYSTEM	DYNAMIC PRODUCTS 28 N SARGENT DRIVE AMHERST NY 14226 716/839-3457	01/18/91	618	Q	BS 400 STRIP SEALS & TYPE W STEEL EXTRUSIONS. WAS BRG INDUSTRIES. CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, MODULAR FOR MOVEMENTS OF > 89MM.	DS BROWN STEELFLEX D-160 W/ L2 SEAL	D.S. BROWN 419/257-3561 419/257-3561 OR 612/427-0717 MICHAEL MARTINO 480/892-3540	05/11/00	1717	Q	ANCHOR PER BR150 FOR INTERSTAT BRIDGES. USE MANUFACTURER'S OR BR 150 ANCHRO FOR NON-INTER- STATE BRIDGES. GALV OK.
02440.20	EXPANSION JOINT, NEOPRENE COMPRESSION FOR MOVEMENTS OF < 44MM.	BRG MODEL "BP"	DYNAMIC PRODUCTS 716/839-3457	01/18/91	619	Q	POLYCHLOROPRENE BASE. WAS BRG INDUSTRIES CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, NEOPRENE COMPRESSION FOR MOVEMENTS OF < 44MM.	D.S. BROWN MODEL "CV"	D.S. BROWN COMPANY 419/257-3561 OR 612/427-0717 MICHAEL MARTINO 480/892-3540	01/18/91	620	Q	SUBMIT SHOP DRAWINGS TO BRIDGE POLYCHLOROPRENE BASE CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, NEOPRENE COMPRESSION FOR MOVEMENTS OF < 44MM.	DELASTIC PAVING SEAL	D.S. BROWN COMPANY 419/257-3561 OR 612/427-0717 MICHAEL MARTINO 480/892-3540	05/01/88	193	Q	JOINT SEALANT STUDY SUBMIT SHOP DRAWINGS TO BRIDGE CONSIDERED 'A' AFTER BRIDGE REVIEW. POLYCHLOROPRENE BASE.
02440.20	EXPANSION JOINT, NEOPRENE COMPRESSION FOR MOVEMENTS OF < 44MM.	WABO COMPRESSION SEAL "WA"	WATSON BOWMAN ACME 800/677-4922 STEVE BRANDT 909/867-2161	01/18/91	501	Q	SUBMIT SHOP DRAWINGS TO BRIDGE SECTION FOR EACH PROJECT. BASE OF POLYCHLOROPRENE. CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, POLYFOAM COMPRESSION FOR MOVEMENTS OF < 44MM.	EVAZOTE 380	E-POXY TECHNOLOGIES, LLC JOEL DZEKCIORIUS 888/999-2463 WILLIAMS CONCRETE 503/286-3647 MASON'S SUPPLY 800/537-3407	04/11/96	660	Q	MATERIAL SIMILAR TO EVAZOTE 50 BUT BETTER UV AND ELASTICITY. 'A' AFTER BRIDGE REVIEW.

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02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	BRG MODEL "BS 300"	DYNAMIC PRODUCTS 716/839-3457	01/18/91	621	Q	TYPE "A" STEEL EXTRUSIONS. WAS BRG INDUSTRIES CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	ONFLEX MODEL 40 SEQ	STRUCTURAL ACCESSORIES 203/589-8826 WHITE CAP 503/287-4151 800/452-2994	05/01/88	627	Q	USE TYPE "AM2" STEEL EXTRUSION SUBMIT DRAWING TO BRIDGE SECTION. CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	RJ SERIES STRIP SEAL	R.J. WATSON, INC. 78 JOHN GLENN DR AMHERST, NY 14228 716/691-3301	09/09/93	1006	Q	ROUTE ALL SUBMITTALS TO BRIDGE LOCKS MECHANICALLY & IS BONDED TO STEEL RETAINER. CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	ROBEK EXPANSION JOINT (LR)	TECHSTAR, INC 419/424-0888 STEVE BROWN	11/01/88	356	Q	CONSIDERED 'A' AFTER BRIDGE REVIEW. WAS US FAB. SUBMIT SHOP DRAWINGS TO BRIDGE LK VERSION REJECTED -BOX SHAPE
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	TYFO STRIP FS400	HEXCEL FYFE CO. EDWARD FYFE 619/792-1501	06/10/93	893	Q	SIMILAR TO OTHERS. SUBMIT SHOP DRAWINGS TO BRIDGEUSE J200-C TYPE "A" EXTRUSION. CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	WABO STRIP SEAL	WATSON BOWMAN ACME 800/677-4922 STEVE BRANDT 909/867-2161	05/01/88	890	Q	TYPE "A3" EXTRUSIONS AND TYPE "SE" SEAL. SUBMIT DRAWINGS TO BRIDGE. CONSIDERED 'A' AFTER BRIDGE REVIEW.
02440.21	ELASTOMERIC CONCRETE FOR PAVING DAMS	CEVA PATCH 120 EPOXY	E-POXY ENGINEERED MATERIALS LUISA FLORES 888/999-2463 MASON'S SUPPLY 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/01/88	43	A	SANDBLAST AND CLEAN SURFACES. SEE SPECS=THERE ARE SPECIAL REQUIREMENTS FOE CONSTRUCTION.
02440.21	ELASTOMERIC CONCRETE FOR PAVING DAMS	DELCRETE URETHANE	D.S. BROWN COMPANY 419/257-3561 OR 612/427-0717 MICHAEL MARTINO 480/892-3540	05/01/89	406	A	BRIDGE APPROVED SANDBLAST SEE SPECS=THERE ARE SPECIAL REQUIREMENTS FOR CONSTRUCTION.
02440.21	ELASTOMERIC CONCRETE FOR PAVING DAMS	WABOCRETE FMV COLTAR EPOXY	WATSON BOWMAN ACME 800/677-4922 800/220-0285 STEVE BRANDT 909/867-2161	01/18/91	502	A	NOT USE WITH POURED FILLERS. FOLLOW MANUFACTURER'S RECOM. SEE SPECS=THERE ARE SPECIAL REQUIREMENTS FOR CONSTRUCTION.

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02440.30	BACKER ROD	CERA-ROD	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 WHITE CAP 503/287-4151	05/01/88	74	A	CROSSLINKED, CLOSED CELL POLYOLEFIN. FOR SEALANTS UP TO 230 DEGREES C.
02440.30	BACKER ROD	GREENROD POLYETHYLENE BACKER ROD	NMC OF NORTH AMERICA HERSHEY DR ANSONIA, CT 06401 800/345-7279	10/03/90	274	A	POLYETHYLENE, CLOSED CELL. FOR USE WITH SEALANTS 93 DEG C DEGREES OR LESS. USED ON C10568, SALISHAN DRIVE.
02440.30	BACKER ROD	HBR	APPLIED EXTRUSION TECH, INC 302/378-8888 OR 800/521-6713 COLORADO STEEL 206/624-8393 VEN: ATLAS SUPPLY 800/806-7952	12/12/91	820	A	POLYETHYLENE CLOSED CELL. FOR COLD SEALANTS TO 70 DEG C. DEGREES. INSTALLATION MUST BE TOOLED SLIGHTLY CONCAVE.
02440.30	BACKER ROD	HBR-XL	APPLIED EXTRUSION TECH, INC 302/378-8888 OR 800/521-6713 COLORADO STEEL 206/624-8393 VEN: ATLAS SUPPLY 800/806-7952	05/01/88	366	A	POLYETHYLENE CLOSED CELL. CROSS-LINKED FOR USE WITH SEALANTS UP TO 230 DEGREES C.
02440.30	BACKER ROD	HOT-ROD XL	INDUSTRIAL THERMO POLYMERS LTD 800/387-3847 (CANADA) WHITE CAP 503/287-4151 VEN: ATLAS SUPPLY 800/806-7952	10/04/90	367	A	TRAFFIC APPROVED FOR USE 10/10/87 ON C. LOBAUGH'S JOB. CROSS-LINKED POLYETHYLENE FOR SEALANTS UP TO 210 DEGREES C.
02440.30	BACKER ROD	ITP BACKER ROD	INDUSTRIAL THERMO POLYMERS LTD 800/387-3847 (CANADA) WHITE CAP 503/287-4151 VEN: ATLAS SUPPLY 800/806-7952	03/14/91	665	A	POLYETHYLENE-FOR COLD POURED SEALANTS ONLY:< 98 DEGREES C.
02440.40	RUBBER GASKETS MANHOLES	BEST SEAL C-56	BEST FITT GASKET CO. TARI KNOTT 253/863-9521	05/09/02	2457	A	MFG PROVIDED EVIDENCE THAT THIS PRODUCT MEETS AASHTO M198
02450.30	INLET MATERIALS	CURB INLET TOP SECTION CI-222P	UTILITY VAULT CO. REP: JOHN HART 503/682-2844 28455 SW BARBER ST. WILSONVILLE, OR 97070	03/13/92	303	Q	PRECAST INLET W/CURB CUT-OUT. HAS A COVER FOR CLEANING INLET MEETS ACI DESIGN GUIDES. BUT CONCERNED W/COASTAL INSTALL.
02450.30	MANHOLE STEPS	AMERICAN MANHOLE STEP ML-10	AMERICAN STEP COMPANY 770/467-9844	01/09/97	1610	A	CO-POLYMER POLYPROPYLENE. USE WHERE 254 MM STEPS ARE ALLOWED 254 MM BETWEEN BARS. EXTENDS OUT 146 MM.

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02450.30	MANHOLE STEPS	AMERICAN MANHOLE STEP ML-13	AMERICAN STEP COMPANY 770/467-9844	01/09/97	1608	A	CO-POLYMER POLYPROPYLENE. INTERIOR BARS ARE EPOXY COATED 330 MM BETWEEN BARS. EXTENDS OUT 152 MM.
02450.30	MANHOLE STEPS	AMERICAN MANHOLE STEP SML-13	AMERICAN STEP COMPANY 770/467-9844	01/09/97	1609	A	CO-POLYMER POLYPROPYLENE. INTERIOR BARS ARE EPOXY COATED 330 MM BETWEEN BARS. EXTENDS OUT 130 MM.
02450.30	MANHOLE STEPS	COSMOS MANHOLE STEP	COSMOS NORTH AMERICA, INC. CHRIS DECONTI 202/333-3955 2500 Q ST. NW #605 WASHINGTON D.C., 20007	05/12/94	1064	A	12.7MM ASTM A-615 GRADE 60 STEEL BAR INSIDE INJECTION MOLDED POLYPROPYLENE. SEEMS TO MEET OUR SPEC.
02450.30	MANHOLE STEPS	LANE POLYPROPYLENE MANHOLE STEPS	LANE INTERNATIONAL PO BOX 925 TUALITAN, OR 97062 503/684-0077	01/01/89	232	A	
02450.30	MANHOLE STEPS	MA MANHOLE STEPS	MA INDUSTRIES 800/241-8250 PIPE INC 503/285-8391	04/11/02	72	A	
02510.11	COATING FOR REBAR EPOXY	CORVEL GREEN 10-6071	MORTON INTERNATIONAL POWDER COATINGS 610/775-6600	01/13/94	427	A	MEETS AASHTO M 284 AS PER VALLEY FORGE LABORATORIES INC., TESTING.
02510.11	COATING FOR REBAR EPOXY	CORVEL GREEN 10-6095	MORTON INTERNATIONAL POWDER COATINGS 610/775-6600	01/11/01	1857	A	MEETS AASHTO M 284 AS PER VALLEY FORGE LABORATORIES INC., TESTING.
02510.11	COATING FOR REBAR EPOXY	GREENBAR #720A009	VALSPAR 816/421-7400 GARY SCHIMMEL WAS LILLY CORPORATION PRIOR TO 2/2001.	10/14/93	779	A	EPOXY POWDER COATING THAT IS FUSION BONDED TO REBAR FOR AN IMPERMEABLE COATING. RECOMMEND PIPE CLAD PATCH PATCHING MATL.
02510.11	COATING FOR REBAR EPOXY	INTERPON HD34 GREEN HRO46G	INTERN'L PAINT POWDER COATINGS P.O. BOX 924224 HOUSTON, TX 77292-4224 DR. J.D. PONT 800/542-0820	09/12/91	790	A	MEETS AASHTO M 284 AS PER VALLEY FORGE LABORATORIES. MFG RECOM PATCHING MATERIAL IS INTERPON HD5020 (WK002G).

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02510.11	COATING FOR REBAR EPOXY	NAP-GARD 7-2709	DUPONT POWDER COATINGS FRITZ HERRMANN 713/939-4000	04/09/92	812	A	MEETS AASHTO M 284, PER VALLEY FORGE TESTING. MFG RECOMMENDED PATCH IS SCOTCHKOTE 213.
02510.11	COATING FOR REBAR EPOXY	NAP-GARD 7-2719	DUPONT POWDER COATINGS FRITZ HERRMANN 713/939-4000	06/14/01	2359	A	MEETS AASHTO M 284, PER VALLEY FORGE TESTING. MFG RECOMMENDED PATCH IS NAPGARD 7-1870.
02510.11	COATING FOR REBAR EPOXY	POWDAX E90	SEIBERT POWDER COATINGS 216/631-2002	05/11/95	1161	A	PATCH MATERIAL: TRU-GLAZE 4 EPOXY, CATALOG #12402 BY DEVOE & REYNOLDS CO. AASHTO M284 TEST PERFORMED BY VALLEY FORGE
02510.11	COATING FOR REBAR EPOXY	RESICOAT 500607	AKZO POWDER COATINGS 708/872-1000 REP: BOB LAMPTON 713/996-8485	08/14/97	1201	A	MFG SUBMITTED INDEPENDENT TEST FOR AASHTO M-284. RECOMMENDED PATCH IS RESICOAT 506610. OK FOR BLAST CLEAN SURFACES.
02510.11	COATING FOR REBAR EPOXY	RESICOAT 500620	AKZO POWDER COATINGS 708/872-1000	08/08/96	1516	A	MFG SUBMITTED INDEPENDENT TEST FOR AASHTO M-284. RECOMMENDED PATCH IS RESICOAT 506610.
02510.11	COATING FOR REBAR EPOXY	SCOTCHKOTE 215	3-M COMPANY 800/962-6217	12/12/91	635	A	DRY POWDER. PASSES AASHTO M284 PER RESULTS FROM VALLEY FORGE. MFG RECOM PATCHING MATERIAL IS 3M SCOTCHKOTE 306.
02510.11	COATING FOR REBAR EPOXY	SCOTCHKOTE 413	3-M COMPANY 800/962-6217	02/11/93	978	A	TEST RESULTS FROM VALLEY FORGE SHOWS COMPLIANCE WITH M 284. RECOMMENDED PATCHING MATERIAL IS SCOTCHKOTE 213PC, 306, &309
02510.11	COATING FOR REBAR SPLICES	3-M ITCN HEAT SHRINK SLEEVES	3-M COMPANY 800/545-3573 WALT DAVIS 503/984-7564 PLATT ELECTRIC 503/581-7012	01/11/96	1375	A	THIS APPEARS TO WORK BETTER THAN FIELD APPLIED PATCHES.
02510.11	COATING FOR REBAR SPLICES	SPICESEAL	RJD INDUSTRIES LAGUNA HILLS, CA JAMES P MCCALLION 800/344-4753 VEN: WESTERN COATINGS, INC. 206/735-1070	04/10/97	953	A	THIS APPEARS TO WORK BETTER THAN FIELD APPLIED PATCHES. HEAT SHRINK TUBING

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02560.70	LUBRICANTS FOR GALVANIZED FASTENERS	140 STICK-WAX	CASTROL INDUSTRIAL 800/621-2661 EXT 3560 DAVIS INDUSTRIAL 503/288-3252 IDG NORTHWEST 800/938-1077	12/10/93	920	A	USE FOR MACHINING OPERATIONS AS A GENERAL-PURPOSE LUBRICANT
02560.70	LUBRICANTS FOR GALVANIZED FASTENERS	MACDERMID - 17130	MACDERMID, INC. 203/575-5949 GREAT WESTERN CHEMICAL 503/242-0200	12/10/93	922	A	DRY FILM LUBRICANT FOR MACHINE PARTS.
02560.70	LUBRICANTS FOR GALVANIZED FASTENERS	SAFETY FILM 639	CASTROL INDUSTRIAL 213/771-7000	12/10/93	921	A	USE AS CORROSION RESIST LUBRICANT ON VARIOUS FASTENERS. ALSO, USE AS A RUST PROTECTOR.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-2 0.51-0.81 M FLARE 'L'= 7.62 M	FLEAT 350 TL-2	ROAD SYSTEMS, INC. JOHN DURKOS 330/346-0721 UNIVERSAL INDUSTRIAL SALES 800/424-9825	02/10/00	1792	A	(FLEAT)FLARED ENERGY ABSORBING TERMINAL. TESTED AT IMPACT SPEEDS OF 70 KPH / 45 MPH. ENTIRE SYSTEM APPROVED.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-2 NON-FLARED; "L" = 7.62 M	ET 2000 PLUS TL-2	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 CORAL SALES 800/538-7245	08/09/01	2451	A	SHOULDER TERMINALS WITH 0 DEG FLARE. FRONT SHOULD BE REFL. NOT FOR USE IN MEDIANS. ENTIRE SYSTEM APPROVED.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-2 NON-FLARED; 'L'= 7.62 M	SKT 350 TL-2	ROAD SYSTEMS, INC. JOHN DURKOS 330/346-0721 UNIVERSAL INDUSTRIAL SALES 800/424-9825	02/10/00	1791	A	SEQUENTIAL KINKING TERMINAL. TESTED AT IMPACT SPEEDS OF 70 KPH/45 MPH. ENTIRE SYSTEM APPROVED.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-3 0.76-1.22 M FLARE 'L'= 11.43 M	FLEAT 350 TL-3	ROAD SYSTEMS, INC. JOHN DURKOS 330/346-0721 UNIVERSAL INDUSTRIAL SALES 800/424-9825	09/10/98	1792	A	(FLEAT)FLARED ENERGY ABSORBING TERMINAL. TESTED AT IMPACT SPEEDS OF 100 KPH / 60 MPH. ENTIRE SYSTEM APPROVED.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-3 0.91-1.22 M FLARE 'L'= 11.43 M	SRT-350 8 POST SYSTEM	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	04/11/96	1490	A	RAIL END PIECE SRT=SLOTTED RAIL TERMINAL ENTIRE SYSTEM APPROVED. 3/4 OR FULL WRAP ON END PIECE.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-3 1.22 M FLARE 'L' = 11.43	REGENT	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	02/11/99	1864	A	MFG SAYS THIS PRODUCT MEETS NCRHRP 350 TESTING IN BOTH WEAK & STRONG SOIL CONDITIONS. ENTIRE SYSTEM APPROVED.

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02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-3 NON-FLARED; "L" = 11.43 M ALSO FOR "L" = 15.24 M	ET 2000 PLUS TL-3	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 CORAL SALES 800/538-7245	09/13/01	2451	A	SHOULDER TERMINALS WITH 0 DEG FLARE. FRONT SHOULD BE REFL. NOT FOR USE IN MEDIANS. ENTIRE SYSTEM APPROVED.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-3 NON-FLARED; 'L'= 15.24 M	SKT 350 TL-3	ROAD SYSTEMS, INC. JOHN DURKOS 330/346-0721 UNIVERSAL INDUSTRIAL SALES 800/424-9825	09/10/98	1791	A	SEQUENTIAL KINKING TERMINAL. TESTED AT IMPACT SPEEDS OF 100 KPH/60 MPH. ENTIRE SYSTEM APPROVED.
02820.00	GUARDRAIL END TERMINAL NCHRP 350 TL-3 STRAIGHT FLARE (1.22 M) 'L'= 11.43 M	SRT-350 6 POST SYSTEM	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	06/14/01	2433	A	RAIL END PIECE SRT=SLOTTED RAIL TERMINAL ENTIRE SYSTEM APPROVED. 3/4 OR FULL WRAP ON END PIECE.
02820.00	GUARDRAIL MEMBERS INCL END PIECES	BUFFALO SPECIALTY PRODUCTS	BUFFALO SPECIALTY PRODUCTS JOHN RUSAK 800/247-7479	12/14/95	1275	A	AASHTO M 189, TYPE II CLASS A. STAMP ON RAIL= "BSP" W-BEAM AND THRIE BEAM. TEST ANCHOR CABLES BY LOT.
02820.00	GUARDRAIL MEMBERS INCL END PIECES	TRINITY GUARD RAIL	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 CORAL SALES 800/538-7245	01/01/95	1273	A	AASHTO M 180, TYPE II CLASS A. SINGLE RAIL = W-BEAMS AND THRIE RAIL = TRI-GARD. TEST ANCHOR CABLES BY LOT.
02820.00	GUARDRAIL MEMBERS INCL END PIECES	UNIVERSAL INDUSTRIAL SALES	UNIVERSAL INDUSTRIAL SALES RAY DENSLEY 800/424-9825	01/01/95	1274	A	AASHTO M 180, TYPE II CLASS A. SINGLE AND THRIE RAIL. TEST ANCHOR CABLES BY LOT.
02840.10	TRAFFIC PAINT, STANDARD SOLVENT BASED NON VOC COMPLIANT, LEADED	NORLINE TRAFFIC PAINT (HIGH VOCS)	TMT PATHWAY 800/835-3357 RON CAMPBELL	12/14/95	1447	A	W:H04W1, HC4W1; Y:H04Y2, HC4Y2 EPA/DEQ RESTRICTED AFTER 8/99.
02840.10	TRAFFIC PAINT, STANDARD SOLVENT BASED VOC COMPLIANT, LEAD FREE	CENTERLINE CL6030 & CL6031 WHITE AND YELLOW	LAFARGE 770/479-6515 (WAS CENTERLINE)	10/09/97	1522	A	LOW VOC, SOLVENT BASED. FORMULA: CL-6030 / CL-6031
02840.10	TRAFFIC PAINT, STANDARD SOLVENT BASED VOC COMPLIANT, LEAD FREE	MORLINE, W= BHWVW197-4 = HWVW1	TMT PATHWAY 800/835-3357 RON CAMPBELL	10/09/97	1706	A	LOW VOC, SOLV BASED. FORMULA: WHITE: BHWVW197-4 OR HWVW1

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02840.10	TRAFFIC PAINT, STANDARD SOLVENT BASED VOC COMPLIANT, LEAD FREE	MORLINE, Y=BHWVY397-4LF=HWVY3	TMT PATHWAY 800/835-3357 RON CAMPBELL	10/09/97	1706	A	LOW VOC, SOLV BASED, FORMULA: YELLOW: BHWVY397-4LF OR HWVY3.
02840.10	TRAFFIC PAINT, STANDARD SOLVENT BASED VOC COMPLIANT, LEAD FREE	SHERWIN WILLIAMS LF SOLVENT	SHERWIN WILLIAMS TOM WOOD 800/368-2026	10/09/97	1707	A	LOW VOC, SOLVENT BASED. FORMULA: 13152, WHITE ONLY.
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	COLUMBIA 17-123 WW	COLUMBIA PAINT 509/535-9741 GARY THOMAS 503/589-4663 JEFF BARTSCH 406/721-3815	11/16/00	2364	A	INSTANT DRY ACRYLIC LATEX WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=120
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	COLUMBIA 17-123-CC	COLUMBIA PAINT 509/535-9741 GARY THOMAS 503/589-4663 JEFF BARTSCH 406/721-3815	11/16/00	2366	A	INSTANT DRY ACRYLIC LATEX YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=54
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	COLUMBIA 17-159 CC	COLUMBIA PAINT 509/535-9741 GARY THOMAS 503/589-4663 JEFF BARTSCH 406/721-3815	11/16/00	2365	A	INSTANT DRY ACRYLIC LATEX YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=105
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	COLUMBIA 17-159 WW	COLUMBIA PAINT 509/535-9741 GARY THOMAS 503/589-4663 JEFF BARTSCH 406/721-3815	11/16/00	2367	A	INSTANT DRY ACRYLIC LATEX WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=146
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	ENNIS ORW-21-M-1	ENNIS PAINT 800/331-8118	11/16/00	2361	A	WHITE WATERBORNE TRAFFIC PAINT TEST DECK 73000042-99 SERVICE LIFE INDEX=138
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	ENNIS ORW-21-M-2	ENNIS PAINT 800/331-8118	11/16/00	2363	A	WHITE WATERBORNE TRAFFIC PAINT TEST DECK 73000042-99 SERVICE LIFE INDEX=121
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	ENNIS ORY-21-M-1	ENNIS PAINT 800/331-8118	11/16/00	2360	A	YELLOW WATERBORNE TRAFFIC PAINT TEST DECK 73000042-99 SERVICE LIFE INDEX=109

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02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	ENNIS ORY-21-M-2	ENNIS PAINT 800/331-8118	11/16/00	2362	A	YELLOW WATERBORNE TRAFFIC PAINT TEST DECK 73000042-99 SERVICE LIFE INDEX=101
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	LAFARGE WX37L003	LAFARGE 770/479-6515 (WAS CENTERLINE)	11/16/00	2378	A	ACRYLIC EMUSLSION YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=91
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	LAFARGE WX37L004	LAFARGE 770/479-6515 (WAS CENTERLINE)	11/16/00	2376	A	ACRYLIC EMUSLSION YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=42
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	LAFARGE WX37W003	LAFARGE 770/479-6515 (WAS CENTERLINE)	11/16/00	2379	A	ACRYLIC EMUSLSION WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=116
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	LAFARGE WX37W004	LAFARGE 770/479-6515 (WAS CENTERLINE)	11/16/00	2377	A	ACRYLIC EMUSLSION WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=95
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	PERVO 4051-0015 906183	PERVO PAINT 800/892-3647 GB "BLAIR" FRANKS	11/16/00	2380	A	HI BUILD, HI PERFORMANCE WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=98
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	PERVO 4054-0014 906182	PERVO PAINT 800/892-3647 GB "BLAIR" FRANKS	11/16/00	2382	A	HI-PERFORMANCE, RAPID DRY YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=51
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	PERVO 4054-0016 906184	PERVO PAINT 800/892-3647 GB "BLAIR" FRANKS	11/16/00	2381	A	HI BUILD, HI PERFORMANCE YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=2
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600W1 W1-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2375	A	FAST DRY ACRYLIC WATERBORNE WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=97

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02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600W2 W2-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2371	A	FAST DRY ACRYLIC WATERBORNE WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=126
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600W3 W3-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2372	A	FAST DRY ACRYLIC WATERBORNE WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=107
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600W4 W4-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2374	A	FAST DRY ACRYLIC WATERBORNE WHITE TEST DECK 73000042-99 SERVICE LIFE INDEX=107
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600Y1 Y1-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2373	A	FAST DRY ACRYLIC WATERBORNE YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=47
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600Y2 Y2-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2370	A	FAST DRY ACRYLIC WATERBORNE YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=70
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600Y3 Y3-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2369	A	FAST DRY ACRYLIC WATERBORNE YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=79
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	TMT PATHWAY O600Y4 Y4-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	11/16/00	2368	A	FAST DRY ACRYLIC WATERBORNE YELLOW TEST DECK 73000042-99 SERVICE LIFE INDEX=67
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE VOC COMPLIANT, LEAD FREE	CENTERLINE CL4066 & CL4068 WHITE	LAFARGE 770/479-6515 (WAS CENTERLINE)	12/12/96	1593	A	WATERBORNE PAINT. FORMULAS: WHITE: CL4066, AND CL4066
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE VOC COMPLIANT, LEAD FREE	CENTERLINE CL4067 & CL4069 YELLOW	LAFARGE 770/479-6515 (WAS CENTERLINE)	12/12/96	1593	A	WATERBORNE PAINT. FORMULAS: YELLOW: CL4067, AND CL4069

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02840.10	TRAFFIC PAINT, STANDARD WATERBORNE VOC COMPLIANT, LEAD FREE	DURALINE 2000 (2706 RESIN) FORMULA# OR95W5 & OR95Y7	TMT PATHWAY 800/835-3357 RON CAMPBELL	12/12/96	1390	A	WATERBORNE TRAFFIC PAINT USING ROHM AND HAAS 2706 RESIN. WHITE:OR95W5 / YELLOW:OR95Y7 DAS BID: #8020, EXPIRES 1/2002
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE VOC COMPLIANT, LEAD FREE	DURALINE 2000 (3427 RESIN) FORMULA# OR95W5-1 & OR95Y7-1	TMT PATHWAY 800/835-3357 RON CAMPBELL	04/13/00	1916	A	WATERBORNE TRAFFIC PAINT USING ROHM AND HAAS 3426 RESIN. WHITE:OR95W5-1/YELLOW:OR95Y7-1 DAS BID: #8020, EXPIRES 1/2002
02840.20	TRAFFIC PAINT BEADS RECYCLED - REGULAR (REFLECTIVE ELEMENTS)	POTTERS BEADS	POTTERS INDUSTRIES, INC. PHIL SEALE 503/266-7814 303/375-1293	12/14/95	1448	A	AASHTO M247-TYPE 1. .6 KG OF BEADS PER L OF PAINT. FOR ODOT MAINTENANCE: DAS BID# 8075 EXP 3/29/02
02840.20	TRAFFIC PAINT BEADS VIRGIN - LARGE (REFLECTIVE ELEMENTS)	MEGALUX BEADS	SWARCO REFLEX 254/562-9879	04/13/00	2199	A	LARGE, VERY CLEAR BEADS. OK FOR LEGENDS USING DURABLE MARKINGS. DAS BID 8220, EXPIRES: 9/2/02
02840.60	PAVEMENT MARKER, RECESSED REFLECTORIZED.	STIMSONITE 944	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	02/13/92	633	A	SIZE: 50 X 100 X 12.7 MM. EPOXY OR BIT ADHESIVE. GLASS FACED. RECESSED ONLY.
02840.60	PAVEMENT MARKER, RECESSED REFLECTORIZED.	STIMSONITE 948	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	09/14/00	148	A	58 X 119 X 13MM, ROUND CORNERS EPOXY OR BIT ADHESIVE. GLASS FACE ON REFLECTOR.
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	RAY-O-LITE ALL ACRYLIC YELLOW: #9706; WHITE: #9708	RAY-O-LITE, DIV OF PAC-TEC DOUG FORRER 800/848-7025 ALPINE PRODUCTS 253/838-4318 TRAFFIC SAFETY 800/547-8518	12/09/99	529	A	SIZE:100 X 100 X 17.2 MM. BIT OR EPOXY ADHESIVES. LABS 91-7335 AND 91-7336
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	RAY-O-LITE SQUARE SHOULDER YELLOW: #8706; WHITE: #8708	RAY-O-LITE, DIV OF PAC-TEC DOUG FORRER 800/848-7025 ALPINE PRODUCTS 253/838-4318 TRAFFIC SAFETY 800/547-8518	05/01/88	1171	A	SIZE: 100 X 100 X 17.8 MM. EPOXY OR BIT ADHESIVE.
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	STIMSONITE 88	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	05/01/88	693	A	SIZE: 100 X 100 X 17.8 MM. EPOXY OR BIT ADHESIVE. SAME AS MODEL 911 BUT W/O GLASS FACE.

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02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	STIMSONITE 911	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	05/01/88	629	A	SIZE: 100 X 100 X 17.8 MM. EPOXY OR BIT ADHESIVE. MODEL 911 HAS GLASS FACE.
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	STIMSONITE 948	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	06/28/88	148	A	58 X 119 X 13MM, ROUND CORNERS EPOXY OR BIT ADHESIVE. GLASS FACE ON REFLECTOR.
02840.60	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED, ABRASIVE RESISTANT	RAY-O-LITE ALL ACRYLIC 'ARC' YELLOW:9706-ARC WHITE:9708-ARC	RAY-O-LITE, DIV OF PAC-TEC DOUG FORRER 800/848-7025 ALPINE PRODUCTS 253/838-4318 TRAFFIC SAFETY 800/547-8518	12/09/99	529	A	ABRASIVE RESISTANT VERSION IS MARKED WITH "ARC". BIT OR EPOXY ADHESIVE. SIZE: 100 X 100 X 17.2 MM.
02840.60	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED, ABRASIVE RESISTANT	STIMSONITE 911	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	12/09/99	629	A	SIZE: 100 X 100 X 17.8 MM. EPOXY OR BIT ADHESIVE. MODEL 911 HAS GLASS FACE.
02840.60	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED, ABRASIVE RESISTANT	STIMSONITE 948	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	12/09/99	148	A	58 X 119 X 13MM, ROUND CORNERS EPOXY OR BIT ADHESIVE. GLASS FACE ON REFLECTOR.
02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	ADOT-W AND ADOT-Y	NOVABRITE LLC 925/373-1751 RA LUCAS 562/799-6160	04/11/02	2559	A	ABS PLASTIC. USE BITUMINOUS ADHESIVE ONLY. IS ON CALTRANS AND WSDOT QPL.
02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	ALPINE ANR-W1 / ANR-Y2 PAVEMENT MARKER	ALPINE PRODUCTS, INC. BART FARRAR 253/838-4318	02/10/00	1786	A	ABS PLASTIC. USE BITUMINOUS ADHESIVE ONLY. IS ON CALTRANS AND WSDOT QPL.
02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	DIAMOND BACK - ABS	INTERSTATE SALES 800/237-7245	07/09/98	1832	A	APPROVED FOR USE WITH BITUMINOUS ADHESIVES ONLY. IS ON CALTRANS & WSDOT QPL'S. 100 MM DIAMETER.
02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	DIAMOND BACK - POLYPROPYLENE	INTERSTATE SALES 800/237-7245	09/13/01	2235	A	APPROVED FOR USE WITH BITUMINOUS ADHESIVES ONLY. IS ON CALTRANS & WSDOT QPL'S. 100 MM DIAMETER.

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02840.61	ADHESIVE FOR PAVEMENT MARKERS BITUMINOUS	CRAFCO BITUMINOUS ADHESIVE FORMULA #269	CRAFCO INC. 800/528-8242 6975 W CRAFCO WAY CHANDLER, AR 85226 PORTLAND, OR 503/281-1161	05/08/97	238	Q	APPL TEMP: 190-218 DEG C. PVMT SHOULD BE AT 10 DEG C. CLEAN & DRY. FLASH POINT IS 287 DEG C. TEST BY LOT.
02840.61	ADHESIVE FOR PAVEMENT MARKERS BITUMINOUS	EVERGRIP-OR	GULF STATES ASPHALT CO. MARK PLATZ 800/662-0987	09/14/00	1807	Q	MUST HAVE THE OR DESIGNATION ON THE NAME.
02850.10	DELINEATOR, METAL TYPE I	FRANKLIN DELINEATORS TYPE I	FRANKLIN INDUSTRIES 814/437-3726 TRAFFIC SAFETY 800/547-8518	11/16/00	2209	A	MET OUR REQUIREMENTS FOR RAIL STEEL.
02850.10	DELINEATOR, METAL TYPE IU	FRANKLIN DELINEATORS TYPE IU	FRANKLIN INDUSTRIES 814/437-3726 TRAFFIC SAFETY 800/547-8518	11/16/00	2210	A	MET OUR REQUIREMENTS FOR RAIL STEEL.
02850.30	DELINEATORS, FLEXIBLE TYPE 4A GUARDRAIL VERSION	CURV-FLEX ROADMARKER CFGR-427	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY, DICK PARSONS 800/457-8518 PAUL SCHUBRING 916/725-1373	11/14/96	1591	A	THE STANDARD DRW REQUIRES 4 LAG SCREWS TO ANCHOR UNIT.
02850.30	DELINEATORS, FLEXIBLE TYPE 4A GUARDRAIL VERSION	FLEXI-GUIDE 527 (FG-527)	BRUNZEL EXTRUSION, TACOMA MIKE MADDEN 800/822-7528 TRAFFIC SAFETY 800/547-7528 (WAS DAVIDSON PLASTICS 1/01)	07/09/98	1636	A	NIPEP TEST DATA LOOKED GOOD FOR STAND ALONE APPLICATIONS.
02850.30	DELINEATORS, FLEXIBLE TYPE II	CURV-FLEX ROADMARKER CFRM-400	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY, DICK PARSONS 800/457-8518 PAUL SCHUBRING 916/725-1373	05/01/88	1503	A	PULTRUDED FIELD MEASURE LENGTHS, SEE SEE STANDARD RD800.
02850.30	DELINEATORS, FLEXIBLE TYPE II	FLEXSTAKE	FLEXSTAKE, INC. 800/348-9839 CINDY HORTON PUBLIC WORKS SUPPLY 800/754-6551	10/11/01	823	A	PLASTIC ANCHOR, USE HINGE. USE H.I. SHEETING. FIELD MEASURE LENGTHS, SEE STANDARD DRAWING RD800.
02850.30	DELINEATORS, FLEXIBLE TYPE II	ROADMARKER CRM-375	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY, DICK PARSONS 800/547-8518	05/01/88	1504	A	FIELD MEASURE LENGTHS, SEE STANDARD DRAWING RD800

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02850.30	DELINEATORS, FLEXIBLE TYPE II	SAFE-HIT, TYPE II	SAFE-HIT CORP. 800/770-6755 MARK ISON 425/424-2147 JIM CROWLEY 800/770-6755	05/01/88	1029	A	ROUND TUBE W/FLAT FACE. GALV DRIVEN ANCHOR. TWIST/PIN LOCK. FIELD MEASURE LENGTHS, SEE STANDARD DRAWING RD800.
02850.30	DELINEATORS, FLEXIBLE TYPE III	DELTAPOST, DELTA-3D TYPE III DELTA-3D, TYPE-3	PROVEN PRODUCTS 503/663-0124 7560 S.W. LAVIEW DRIVE PORTLAND, OR 97219 503/244-9185	05/01/88		A	6.4M X 2.4M PVC ANCHOR PIPE FIELD MEASURE LENGTHS, SEE STANDARD DRAWING RD800
02850.30	DELINEATORS, FLEXIBLE TYPE III	SAFE-HIT, TYPE III	SAFE-HIT CORP. 800/537-8958 MARK ISON 425/424-2147 JIM CROWLEY 312/467-6750	05/01/88	1030	A	ROUND TUBE W/FLAT FACE. GALV DRIVEN ANCHOR. TWIST/PIN LOCK. FIELD MEASURE LENGTHS, SEE STANDARD DRAWING RD800.
02860.00	IMPACT ATTENUATOR, PERMANENT NCHRP 350 TL-2 RE-DIRECTIVE, NON GATING.	TRACC (TL-2)	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	10/11/01	1902	A	TESTED FOR IMPACT SPEEDS UP TO 70 KPH/45 MPH. 4.33 M LONG 0.8 M WIDE.
02860.00	IMPACT ATTENUATOR, PERMANENT NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING.	TRACC (TL-3)	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	09/13/01	1902	A	TESTED FOR IMPACT SPEEDS UP TO 100 KPH/60 MPH. 6.4 M LONG. 0.8 M WIDE.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW & WIDE NCHRP 350 TL-2 RE-DIRECTIVE, NON-GATING	QUAD-GUARD ELITE (TL-2)	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	03/08/01	2413	A	7 BAY SYSTEM. TESTED FOR IMPACT SPEEDS TO 70KPH/45MPH.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW & WIDE NCHRP 350 TL-3 RE-DIRECTIVE, NON-GATING	QUAD-GUARD	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	04/09/98	1572	A	PROTECT ROADSIDE AND MEDIAN OBSTACLES AND HAZARDS. SIMILAR TO "GREAT". TESTED FOR IMPACT SPEEDS 100 KPH/60 MPH.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW & WIDE NCHRP 350 TL-3 RE-DIRECTIVE, NON-GATING	QUAD-GUARD ELITE (TL-3)	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	03/08/01	2413	A	11 BAY SYSTEM. TESTED FOR IMPACT SPEEDS TO 100KPH/60MPH.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW & WIDE NCHRP 350 TL-3 RE-DIRECTIVE, NON-GATING	QUAD-GUARD HS	ENERGY ABSORPTION SYSTEMS, INC 312/467-6750 CORAL SALES: 800/538-7245	04/11/02	2570	A	9 BAY SYSTEM. TESTED FOR IMPACT SPEEDS TO 113KPH/70MPH.

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02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW APPS NCHRP 350 TL-3 RE-DIRECTIVE, NON GATING	REACT 350	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	08/10/95	1364	A	TESTED FOR IMPACT SPEEDS UP TO 100KPH/60MPH. REQUIRES 200 MM THICK 27.5 MPA CONCRETE SLAB TO ANCHOR THE UNIT.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW APPS. NCHRP 350 TL-3 RE-DIRECTIVE, GATING	BRAKEMASTER 350	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	03/09/00	880	A	GUARDRAIL TREATMENT FOR WIDE-MEDIAN/SHOULDER APPLICATIONS. REGION/ROADWAY DESIGNERS PICK FROM QPL WITH DISTRICT INPUT.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW APPS. NCHRP 350 TL-3 RE-DIRECTIVE, GATING	CAT-350 CRASH CUSHION	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	07/11/96	291	A	SLOTTED RAIL ATTENUATOR FOR MEDIAN/SHOULDER APPLICATIONS. REGION/ROADWAY DESIGNERS PICK FROM QPL WITH DISTRICT INPUT.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW SYSTEM NCHRP 350 TL-3 RE-DIRECTIVE, GATING	QUAD-TREND 350	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	12/09/99	1906	A	TESTED FOR IMPACT SPEEDS UP TO 100KPH/60MPH. LENGTH: 6.1 M. CLEAR AREA REQUIRED BEHIND TERMINAL. WIDTH: 0.380 M
02910.20	REFLECTIVE SIGN SHEETING ENCLOSED LENS AASHTO M268 TYPE I	3-M ENGINEERING GRADE SERIES 3170	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	01/01/95	1278	A	MEETS AASHTO M 268, TYPE I. MODIFICATIONS APPROVED 8/02.
02910.30	REFLECTIVE SIGN SHEETING ENCAPSULATED LENS AASHTO M268 TYPE III	3-M HIGH INTENSITY GRADE SERIES 2800 AND 3800	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	01/01/95	1279	A	SERIES 2800 IS HEAT ACTIVATED. SERIES 3200 IS PRESSURE SENSITIVE
02910.30	REFLECTIVE SIGN SHEETING PRISMATIC AASHTO M268 TYPE III	AVERY DENNISON T-6500 SHEETING WAS STIMSONITE 6200 SERIES	AVERY DENNISON 800/327-5917 TERRY FERGUS 916/933-6375	06/12/97	1525	A	NOT EQUIVALENT TO WIDE ANGLE PRISMATIC.
02910.30	REFLECTIVE SIGN SHEETING TYPE III ASTM D4956 TYPE III	NIKKALITE ULTRALITE GRADE II	NIPPON CARBIDE INDUSTRIES, INC. ROBERT PARRA 800/821-4264 LYLE HONDA 800/821-4264	09/10/98	1704	A	USES ENCAPSULATED LENS REFLECTIVE SHEETING. IS AVAILABLE IN SEVERAL COLORS. USEFUL FOR TEMP. AND PERMANENT APPLICATION
02910.31	REFLECTIVE SIGN SHEETING WIDE ANGLE PRISMATIC (LDP) TYPE B ASTM D4956 T-7	3-M DIAMOND GRADE SERIES 3970	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	01/01/95	1280	A	ORIENTATION IMPORTANT! THIS HAS A TOP, AND CAN NOT BE ROTATED. FOR OVERHEAD APPLICATIONS.

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02910.31	REFLECTIVE SIGN SHEETING WIDE ANGLE PRISMATIC TYPE A ASTM D4956 T-9	3-M VIP GRADE SERIES 3990	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	11/09/95	1328	A	FOR URBAN STREET LEVEL.
02910.31	REFLECTIVE SIGN SHEETING WIDE ANGLE PRISMATIC TYPE A. ASTM D4956 T-9 FLUORESCENT	3-M FLUORESCENT DIAMOND GRADE SERIES 3981, 3983, 3924	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	12/12/96	1513	A	THIS IS VERY BRIGHT STUFF. 3-M ID #3924.CONSTRUCTION ONLY
02910.51	TRAFFIC SIGNAL LED GREEN BALL	ELECTRO-TECH #BG12SB	ELECTRO-TECH 909/734-5424 MIKE FRIEDMAN	10/17/01	2507	Q	FOR CONSTRUCTION - OBTAIN FROM MANUFACTURER. FOR MAINTENANCE OBTAIN FROM TSSU STOREROOM AT 503-378-2645 EXT 28.
02910.51	TRAFFIC SIGNAL LED RED ARROW	ELECTRO-TECH #SWARROW	ELECTRO-TECH 909/734-5424 MIKE FRIEDMAN	10/17/01	2509	Q	FOR CONSTRUCTION - OBTAIN FROM MANUFACTURER. FOR MAINTENANCE OBTAIN FROM TSSU STOREROOM AT 503-378-2645 EXT 28.
02910.51	TRAFFIC SIGNAL LED RED BALL	ELECTRO-TECH #1932	ELECTRO-TECH 909/734-5424 MIKE FRIEDMAN	10/17/01	2508	Q	FOR CONSTRUCTION - OBTAIN FROM MANUFACTURER. FOR MAINTENANCE OBTAIN FROM TSSU STOREROOM AT 503-378-2645 EXT 28.
02910.60	ALTERNATIVE FOR SILK SCREENING.	3-M ELECTRONIC CUTTABLE FILM SERIES 1100	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	09/12/96	1414	A	NEED FOR LEGENDS ON HIGH INTENSITY SHEETING.
02910.70	ANTI-GRAFFITI COATING FOR SIGNS	3-M 1150 OVERLAY FILM FOR EG AND HI	3-M COMPANY 800/553-1380 CATHY ARDANAZ 503/612-6718	05/09/96	1413	A	FOR 3-M SHEETING ONLY. DESIGNED TO ALLOW EASY REMOVAL OF GRAFFITI.
02910.70	ANTI-GRAFFITI COATING FOR SIGNS	3-M 1160 OVERLAY FILM FOR EG, HI, AND DG	3-M COMPANY 800/553-1380 CATHY ARDANAZ 503/612-6718	01/10/02	2436	A	FOR 3-M SHEETING ONLY. DESIGNED TO ALLOW EASY REMOVAL OF GRAFFITI.
02920.00	BREAKAWAY TRANSFORMER BASE (PED POLE)	BREAKAWAY TRANSFORMER BASE	AKRON FOUNDRY CO. 2728 WINGATE AVE, PO BOX 27028 AKRON, OHIO 44319-0009 216/745-3101	11/14/96	585	Q	ALL USES MUST BE APPROVED BY TRAFFIC SECTION. MFG MUST CERTIFY THAT EACH SHIPMENT SAME CHEMISTRY AS WAS APPROVED

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02920.00	SHIELD CONNECTORS	3-M #4460	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718 TRAFFIC CONTROL MATERIALS DIV. 800/553-1380	05/01/88	1102	A	OR APPROVED EQUAL
02920.00	TRAFFIC SIGNAL FITTINGS	THREDOLET	BONNIE FORGE AND TOOL WORKS	05/01/88		Q	
02920.00	TRAFFIC SIGNAL FITTINGS	TRANS-O-CON	PHOENIX FORGING CO.	05/01/88		Q	
02920.13	JUNCTION BOXES	OMNI VALVE BOX CUSHION	OMNI PRODUCTS INC. P.O. BOX 15319 PORTLAND, OR 97214 503/287-9860	12/13/90	282	A	USES RECYCLED TIRES. WATCH SKID RESISTANCE. NEW VERSION 1/92, APPEARS TO HAVE BETTER SKID RESISTANCE & LIFTING RING
02920.23	LOOP DETECTOR, PRE-FORMED PERMANENT	NEVERFAIL LOOP DETECTOR MODEL A OR C	NORTHWEST SIGNAL SUPPLY 503/635-4351 17410 SW 63RD AVE LAKE OSWEGO, OR 97035	11/14/91	304	A	PLASTIC CONDUIT WITH WIRES, FILLED WITH SEALANT. TRAFFIC SECTION APPROVED. SPECIAL APPLICATIONS.
02920.23	LOOP DETECTOR, PRE-FORMED PERMANENT	PRE-FORMED LOOP DETECTORS	CAPITAL ENTERPRISE & ENGINEERING SALEM, OR GREG GOSSACK 503/363-9290	11/14/91	797	A	HYDRAULIC HOSE WITH WIRES , FILLED WITH SEALANT. TRAFFIC SECTION APPROVED. SPECIAL APPLICATIONS.
02920.23	LOOP DETECTOR, PRE-FORMED TEMPORARY	AUTOLOGGER LOOP	GATES RUBBER CO. LTD. DOCAL ASSOCIATES, INC. REP: TONY DOCAL 203/387-3218	10/14/93	750	A	TEMP. TRAFFIC DETECTOR LOOP. USES BITUMEN BASED TAPE W/ HEAVY DUTY CLOTH TAPE FOR THE CORNERS TO HOLD IN PLACE.
02920.23	LOOP DETECTOR, PRE-FORMED TEMPORARY	SPERRY RUBBER ROAD TUBE	SPERRY RUBBER AND PLASTICS 800/541-9277	11/10/94	1086	A	
02920.23	TRAFFIC SIGNAL PED BASE	SQ TRAFFIC PED SIGNAL BASE	AKRON FOUNDRY COMPANY AKRON, OH. ROBERT SIK 330/754-3101	04/08/99	1694	Q	PEDESTRIAN PEDISTAL BASE ONLY. DESIGNED TO SUPPORT A THREADED SCHEDULE 40 STEE; PIPE FOR USE AS A PEDESTRIAN SIGNAL.

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02920.43	PHOTO-ELECTRIC CONTROL	DARK TO LIGHT	DARK TO LIGHT REP: HEES ENTERPRISES, INC. PO BOX 1110, ASTORIA, OR 97103 503/325-8778	04/14/94	1104	Q	PHOTO-ELECTRIC CELL THAT OPERATES A RELAY FOR ILLUM. CNTRL. TYPES D AND DP ARE BOTH SUITABLE FOR USE.
02920.44	RADIO MODEM	GRE AMERICA GINA MODEM	GRE AMERICA, INC. BELMONT, CA RAY CAUDURO, 503/557-0744 CAPITAL ENTERPRS & ENG'G GROUP JOHN IRWIN, 503/363-9290	04/08/99	1703	Q	NEEDS TO BE TESTED PRIOR TO USE. IT IS DESIGNED TO BE USED BETWEEN SIGNAL CONTROLLERS WITHOUT 4 WIRE INTERCONNECTS.
03010.00	FENCING, CHAIN LINK	CYCLONE C-SECTION (ZINC)	GREGORY GALVANIZING 800/322-0477 JIM DESMITH	07/08/93	809	A	GALVANIZED STEEL C-SECTION MANUFACTURER HAS SHOWN CONFORM TO AASHTO M181, GRADE 1. HOT-DIP ZINC COATING.
03010.00	FENCING, CHAIN LINK	SS-40 POSTS	ALLIED TUBE AND CONDUIT 800/882-5543, EXT. 775 REP: PACIFIC FENCE 800/547-2410	12/13/90	374	A	MFG HAS COMPL WITH AASHTO M181 GRADE 2. SUITABLE FOR FENCING. SAMPLING PER SEC 01050 OF THE NON-FIELD TEST ACPTANCE GUIDE.
03010.00	FENCING, CHAIN LINK	TUF 40	AMERICAN TUBE CO. 2525 N. 27TH AVE. PHOENIX, AZ 85009 800/877-8823 OR 602/272-6606	01/17/91	146	A	MFG HAS COMPL WITH AASHTO M181 GRADE 2. SUITABLE FOR FENCING. SAMPLING PER SEC 01050, OF THE NON FIELD TEST ACPTANCE GUIDE.
03010.00	FENCING, CHAIN LINK	WT-40	WHEATLAND TUBE CO. MICHAEL RYAN, 724/342-6851	04/08/99	1847	A	FOR USE IN STEEL FENCE POSTS, RAILS, AND GATE FRAMES. MFTR ASSERTS COMPLIANCE WITH AASHTO M181, AND ASTM F1043.
03010.00	FENCING, REPAIR	V-LOCK FENCE STAYS	V-LOCK FENCE PRODUCTS 5129 GAETZ AVE RED DEER, AB CANADA T4N 4B3 RAY LIEVRE 403/342-4553	01/14/93	798	A	TO KEEP STRETCHED FENCE UPRIGHT BETWEEN POSTS. IT IS AN ANGLED PIECE OF STEEL WITH SLOTS & A LONG PIN.
03110.00	SOIL STERILIZATION	CASORON (GRANULAR)	THOMPSON-HAYWARD CO. P.O. BOX 14, HWY 30 ST. GABRIEL, LA 70776	05/01/88	1387	A	FOLLOW MFG INSTRUCTIONS FOR APPLICATION. DO NOT OVER APPLY.
03110.00	SOIL STERILIZATION	NOROSAC 4G	P.B.I. GORDON CHEMICALS	05/01/88	1388	A	FOLLOW MFG INSTRUCTIONS FOR APPLICATION.

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03110.20	SOIL CONDITIONER ORGANIC	KIWI POWER	QUATTRO ENVIRONMENTAL 619/522-0044	11/08/01	2442	A	USED ON WINCHESTER SLIDE REVEG AND CAPE COVE SLIDE, AND LINN DUTTON ROD PROJECTS.
03200.00	CHEMICAL DE-ICER	CROTECH CF7	CRYOTECH DEICING TECHNOLOGY 800/346-7237 OR 329/372-6012 6103 ORTHOWAY FT MADISON, IA 52627	08/22/00	974	A	POTASSIUM ACETATE BASED. NO STATEWIDE PRICE AGREEMENT AT THIS TIME.
03200.00	CHEMICAL DE-ICER	CRYOTECH CMA DE-ICER - LIQUID	SURE CROP FARM SUPPLY 541/998-1121 MFG: CRYOTECH DEICING TECH 800/346-7237 OR 329/372-6012	08/22/00	2329	A	CALCIUM MAGNESIUM ACETATE. DAS CONTRACT# 9142. EXPIRES: 5/31/02
03200.00	CHEMICAL DE-ICER	CRYOTECH CMA DE-ICER - SOLID	CRYOTECH DEICING TECHNOLOGY 800/346-7237 OR 319/372-6012 6103 ORTHOWAY FT MADISON, IA 52627	08/22/00	1067	A	CALCIUM MAGNESIUM ACETATE. DAS CONTRACT# 9141. EXPIRES: 8/31/02
03200.00	CHEMICAL DE-ICER	DUSTCHEM MAGNESIUM CHLORIDE	DUSTCHEM 435/795-9180	08/22/00	2328	A	LIQUID MAGNESIUM CHORIDE DAS CONTRACT# 8454. EXPIRES: 8/31/02

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00225.11	FLASHER (BINARY) FOR DELINEATORS	VARI-SPEC FLASHER	FLEX-O-LITE 800/325-9525 CANTEL OF MEDFORD TRAFFIC SAFETY 800/547-8518 AMERICAN BARRICAD 503/285-6616	12/09/93	1073	R	FIELD TEST WAS NOT IMPRESSIVE. THIS IS A BINARY REFLECTOR. USES MOTION & LIGHT TO CREATE THE FLASH. MORE INFO COMING.
00225.11	FLASHER (SOLAR POWERED) FOR DELINEATORS	GUARD LIGHT	FURUKAWA BATTERY CO., LTD. REP: WELTANCO INC 713/496-5484 14780 MEMORIAL DR, SUITE 211 HOUSTON TX 77079	10/14/93	1002	R	SMALL UNIT THAT UTILIZES HARD TO REACH ON-OFF SWITCH. COULD BE EASILY DAMAGED OR STOLEN.
00225.11	FLASHER (SOLAR POWERED) FOR TUBULAR MARKERS	PIKA SAFETY LIGHT	WELTANGCO INC. 14780 MEMORIAL DRIVE, SUITE 211 HOUSTON, TX 77079 713/496-5484	11/15/90	567	R	WRONG COLOR, THEFT A PROBLEM
00225.11	SIGN SHEETING, ROLL-UP FLUORESCENT ORANGE	REFLEXITE - SUPER BRIGHT	REFLEXITE CORP. 800/654-7570 REP: JOE RIEHL 916/739-6903.	11/16/00	1514	R	DID NOT HOLD UP WELL IN TESTS. WAS NOT VERY VISIBLE IN POOR LIGHT CONDITIONS. OK FOR JOBS BID PRIOR TO 1/2001.
00225.11	SIGN SHEETING, ROLL-UP ORANGE ORANGE	REFLEXITE - STANDARD SHEETING	REFLEXITE COEP. 800/654-7570 REP: JOE RIEHL 916/739-6903.	11/16/00	1559	R	DID NOT HOLD UP WELL IN TESTS. WAS NOT VERY VISIBLE IN POOR LIGHT CONDITIONS. OK FOR JOBS BID PRIOR TO 1/2001.
00225.11	SIGN SUPPORTS, PORTABLE BARRIER MOUNT	INTERSTATE SIGN STAND MBC-15	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967	02/10/00	1813	R	TOO WIDE, PRESENTS A SNAGGING HAZARD. CLAMPS MIGHT BE DESTRUCTIVE TO BARRIER.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	ECONO BUSTER	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	05/11/00	2252	R	CRASH TESTING? WIND LOAD TESTING?
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	INTERSTATE SIGN STAND X-600	EASTERN METALS 800/872-7446 ZUMAR INDUSTRIES 800/426-7967 FORESS SIGN CO 541/928-5858	06/08/00	1818	R	PASSED NCHRP 350 CAT 2 TESTING FOR ROLL-UP SIGNS ONLY. DO NOT USE WITH RIGID SIGNS. THIS UNIT IS VERY TALL.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	SIGN-UP MS 1000-X (48-FU)	SIGN-UP CORPORATION 800/659-6466	06/08/00	2271	R	NO CRASH TESTING SUBMITTED. NO WIND STABILITY TESTS FROM MANUFACTURER EITHER.

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00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	WINDMASTER MODEL 4812	MDI 800/521-6776 DAVID HILLSTROM 248/553-1900 LANNIE HYDE 916/645-8686	06/08/00	2289	R	DOES NOT PASS THE WIND STABILITY REQUIREMENTS.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	WINDMASTER MODEL 4814 DLK	MDI 800/521-6776 DAVID HILLSTROM 248/553-1900 LANNIE HYDE 916/645-8686	06/08/00	2290	R	DOES NOT PASS THE WIND STABILITY REQUIREMENTS.
00225.11	SIGN SUPPORTS, PORTABLE FOR ROLL-UP SIGNS	ZEPHYR PORTABLE SIGN STAND	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	07/12/01	2310	R	DID NOT HAVE ADJUSTMENTS ON THE LEGS FOR UNEVEN GROUND.
00225.12	BARRICADE, TEMPORARY	MULTI-BARRIER SAFETY BARRICADE	OFF THE WALL PRODUCTS 888/363-7740	12/09/99	2004	R	NOT APPROVED FOR USE WITH A BARRICADE PANEL MOUNTED. CAN'T SEE THROUGH IT.
00225.12	BARRICADE, TEMPORARY TYPE I,II	MAXICADE	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	05/11/00	385	R	UP-RIGHT STANDS ARE ORANGE, WE REQUIRE WHITE.
00225.12	BARRICADE, TEMPORARY TYPE III	ITASCA TYPE III BARRICADE	ITASCA PLASTICS 630/443-4446 EXT 46	04/11/02	2478	R	BARRICADE BOARD ONLY. WE DO NOT APPROVE PARTS OF A SYSTEM.
00225.12	BARRICADE, TEMPORARY VERTICAL	ULTRA PANEL	BENT MANUFACTURING 888/882-2368 OR 888/842-0600	03/09/00	2167	R	CAN BE SET UP INCORRECTLY TOO EASY. NOT ALL-DIRECTIONAL. LIMITED USE, RT OR LT LANE CLOSURES WOULD NEED DUAL INVEN
00225.12	BARRICADE, TEMPORARY VERTICAL PANEL	AIR SPILL BARRICADE	FLASHER HANDLING CORP. 800/451-0636	05/11/00	326	R	VERTICAL PANELS HAVE NOT BEEN APPROVED IN OR. THEY ARE NOT OMNI-DIRECTIONAL.
00225.12	BARRIER, TEMP, PLASTIC WATER-FILLED	MULTI-BARRIER SAFETY BARRICADE	OFF THE WALL PRODUCTS 888/363-7740	12/09/99	2004	R	NOT APPROVED BY FHWA FOR USE AS A WATER FILLED BARRIER.

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00225.12	IMPACT ATTENUATOR, TEMPORARY, NARROW APPS. NCHRP 230 IMPACT SPEEDS 70KPH/45MPH	ADIEM II	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	06/11/98	1224	R	FOR FRONT OF CONCRETE BARRIER. LONGTERM DURABILITY OF PERLITE BLOCKS QUESTIONED. REDIRECTIVE LAST 4.5 M NOT LENGTH OF NEED
00225.12	IMPACT ATTENUATOR, TEMPORARY, NARROW APPS. NCHRP 350 TL-3, GATING IMPACT SPEED 100KPH/60MPH	ABSORB 350 TL-3	BARRIER WEST 707/374-6800	08/08/02	2336	R	FOR FRONT OF BARRIER AND QUICK CHANGE BARRIER. NON-REDIRECTIVE. WE DID NOT LIKE DEFLECTION & MAINTENANCE
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 230	ALPHA 1000	ENERGY ABSORPTION SYSTEMS, INC 312/467-6750 CORAL SALES: 800/538-7245	07/08/99	998	R	NOT BEEN TESTED TO NCHRP 350. OK FOR NCHRP 230 ONLY. ODOT MAINTENANCE: OK CURRENTLY OWNED UNITS FOR USEFUL LIFE.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 230	ALPHA 2001 MD	ENERGY ABSORPTION SYSTEMS, INC 312/467-6750 CORAL SALES: 800/538-7245	07/08/99	997	R	NOT BEEN TESTED TO NCHRP 350. OK FOR NCHRP 230 ONLY. ODOT MAINTENANCE: OK CURRENTLY OWNED UNITS FOR USEFUL LIFE.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 230	ALPHA 60 MD	ENERGY ABSORPTION SYSTEMS, INC 312/467-6750 CORAL SALES: 800/538-7245	07/08/99	1091	R	NOT BEEN TESTED TO NCHRP 350. OK FOR NCHRP 230 ONLY. ODOT MAINTENANCE: OK CURRENTLY OWNED UNITS FOR USEFUL LIFE.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 230	HEX-FOAM TMA	ENERGY ABSORPTION SYSTEMS, INC 312/467-6750 CORAL SALES: 800/538-7245	07/08/99	996	R	NOT BEEN TESTED TO NCHRP 350. OK FOR NCHRP 230 ONLY. ODOT MAINTENANCE: OK CURRENTLY OWNED UNITS FOR USEFUL LIFE.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 230	HEXCEL TMA	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	07/08/99	1304	R	NOT BEEN TESTED TO NCHRP 350. OK FOR NCHRP 230 ONLY. ODOT MAINTENANCE: OK CURRENTLY OWNED UNITS FOR USEFUL LIFE.
00225.12	IMPACT ATTENUATOR, TRUCK MOUNTED NCHRP 350 TL-3	UMAD	DIMENSIONAL PRODUCTS INC. 410/646-0040 RUSS BEEBE 503/371-2882	12/14/00	2300	R	ENCAPSULATION OF IMPACT CAR. FHWA APPROVAL WAS MARGINAL. ROLL AHEAD DISTANCE WAS EXCESSIVE.
00225.13	MARKERS, CONICAL TEMPORARY	RADIATOR PVC BLACK BASED CONE MODEL 28POHSL	RADIATOR SPECIALTY 800/438-4532 PACIFIC SAFETY SUPPLY 800/333-5641	05/09/02	2314	R	DID NOT MEET OUR CONSTRUCTION SPEC; ONLY ONE PIECE, MADE OF PVC, BASE NOT BIG ENOUGH, NOT HEAVY ENOUGH, WRONG TAPER RATE

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00225.13	MARKERS, CONICAL TEMPORARY	STACKER	ROADMARKER CO. REP: BILL THURSTON 800/331-2332	07/08/99	203	R	HAS NOT BEEN TESTED TO NCHRP 350 YET. MFG IS WORKING ON IT.
00225.13	MARKERS, CONICAL TEMPORARY	T-TOP STACKABLE CONE	BENT MANUFACTURING 888/882-2368 OR 888/842-0600	03/09/00	2168	R	BASE IS TOO SMALL. UNIT IS TOO LIGHT.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	ASTRO REBOUNDER FLEXIBLE POST	ASTRO OPTICS CORP 312/893-2460 REP: MARY DAMSCH 708/428-3181	09/09/99	1708	R	DOES NOT MEET SPECS FOR DIA. SPECS: 75 MM THIS PRODUCT: 57 MM.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	CHANNELIZER WAS SUPERDUCK II CHANNELIZER	CARSONITE INC. 800/648-7974 DISTRIBUTER: TRAFFIC SAFETY DICK PARSONS 800/547-8518	06/08/00	514	R	SIMILAR TO SUPER DUCK. DOES NO NOT MEET OUR SPEC FOR A MINIMUM DIAMETER OF 75 MM.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	FLEXSTAKE SM	FLEXSTAKE, INC. 800/348-9839 CINDY HORTON PUBLIC WORKS SUPPLY 800/754-6551	06/08/00	861	R	SURFACE MOUNTED WITH ADHESIVE. DIA DOES NOT MEET SPEC (75MM). FLAT BODY WITH ROUND CENTER, & HINGE. SIZE 22 X 75 MM.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	FLEXSTAKE TM	FLEXSTAKE, INC. 800/348-9839 CINDY HORTON PUBLIC WORKS SUPPLY 800/754-6551	06/08/00	1481	R	SURFACE MOUNTED WITH HINGE. DIA DOES NOT MEET SPEC (75MM). THIS UNIT IS ROUND 57 MM DIA.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	GREENLINE DELINEATOR	GREENLINE PRODUCTS (FORMTECH ENTERPRISES) PAUL SCHUBRING 800/438-4733	06/08/00	1074	R	DESIGNED FOR MOUNTING ON AC OR PCC SURFACES. IT IS NOT ROUND. RE-EVALUATED 6/00 STILL REJECT IT IS FLAT, SLIGHTLY CURVED.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	MASTERFLEX SURF MTD CHANNELIZR	BENT MANUFACTURING 714/842-0600	06/08/00	1528	R	DESIGNED FOR BETTER VISIBILITY AND DURABILITY THAN EXISTING. IT IS ONLY 50 MM DIA, OUR SPEC REQUIRES MINIMUM OF 75 MM.
00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	REPO 300 TUBULAR MARKER	WESTERN HIGHWAY PRODUCTS 10650 FERN AVE STANTON, CA 90680 714/761-4811	06/08/00	436	R	SURFACE MOUNTED DELINEATOR DOES NOT MEET OUR SPEC FOR MINIMUM DIAMETER OF 75 MM.

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00225.13	MARKERS, TUBULAR, SURFACE MOUNTED	SAFE-HIT GUIDE POST CHANNELIZER	SAFE-HIT CORP. 800/770-6755 MARK ISON 425/424-2147 JIM CROWLEY 800/770-6755	06/08/00	223	R	SURFACE MOUNTED. DOES NOT MEET THE SPEC FOR 75 MM MINIMUM DIAMETER.
00225.13	PAVEMENT MARKER TEMPORARY	SWARCO TEMPORARY	SWARCO INDUSTRIES P.O. BOX 89 COLUMBIA, TN 38402-0089 615/388-5900	08/10/88	135	R	EVALUATED ON PAVEMENT MARKING TEST PROJECT, SALEM PARKWAY ORIGINAL REPORT THAT THIS PRODUCT WAS QUALIFIED IS WRONG
00225.13	PLASTIC DRUMS TEMPORARY	BAR-L-CADE II	LAKESIDE PLASTICS INC. 414/235-4513 TRAFFIC SAFETY SUPPLY CO 800/547-8518	10/04/90	226	R	REJECTED DOES NOT MEET REQUIRE OF MUTCD (LEGS OR SIDES) IT IS HIGH DENSITY
00225.13	PLASTIC DRUMS TEMPORARY	SAFE-T-DRUM PART #9700	RADIATOR SPECIALTY CO. 800/438-4532 RA LUCAS CO. 562-799-6160 PACIFIC SAFETY 503/364-5641	12/10/98	58	R	6.3KG VERSION ORIG APPROVED, BUT PERFORMANCE WAS POOR. USE IS ALLOWED ONLY ON JOBS BID BEFORE JULY 1999.
00225.13	TRAFFIC ARROW TEMPORARY	TEMPORARY TRAFFIC ARROW	SAFETY TECH, INC. P.O. BOX 2253 EUGENE, OR 97402 DAN ALLSUP 503/345-9633	05/09/91	87	R	ARROW WAS TOO SMALL, WASN'T SELF CLEANING. IT WAS TRIED ON SEVERAL PROJECTS.
00225.15	TRAFFIC SIGNAL, PORTABLE MOUNTED ON STAND SHORT TERM	SUPERQUARTZ II	HORIZON SIGNAL 800/852-8796 KT CONTRACTING 503/390-0626	09/10/92	852	R	DOES NOT MEET OUR SPECS. IT IS WRONG VOLTAGE, NOT CENTERED IN LANE, NOT INTERCONNECTABLE. CONFLICT MONITOR?
00225.15	TRAFFIC SIGNAL, PORTABLE TRAILER MOUNTED SHORT TERM	GTEL PORTABLE FLAGMAN	GEORGETOWN ELECTRIC 302/652-4836	05/11/95	1295	R	DOES NOT MEET OUR SPECS. IT IS WRONG VOLTAGE, NOT CENTERED IN LANE, NOT INTERCONNECTABLE. CONFLICT MONITOR?
00225.16	PCMS / PVMS - TRAILER	DOT-SIGN	ADDCO 651/488-8600 DAVID BERKMAN 206/542-4624 TRAFFIC SAFETY 800/547-8518	12/14/00	225	R	DOT MATRIX FLIP DISK SYSTEM. ILLUMINATION BY ULTRAVIOLET FLUORESCENT BLACKLIGHT. NO NEW JOBS AFTER 12/2000.
00225.16	PCMS / PVMS - TRAILER	GUARDIAN TRILUX PCMS	3-M COMPANY DAN SKITES 800/727-9111 CATHY ARDANAZ 800/962-6217 (WAS AMERICAN ELECTRONIC 1/01)	12/14/00	1552	R	FLIP DISC, USES 3M DIAMOND GRADE REFLECTIVE SHEETING W/ BACK LIGHTING. YELLOW ONLY. NO NEW JOBS AFTER 12/2000.

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00225.16	PCMS / PVMS - TRAILER	NIGHTHAWK 340	US TRAFFIC / DISPLAY SOLUTIONS 800/733-7872 NELSON FLACK	06/13/96	1183	R	DIESEL POWERED GENERATOR. FLUORESCENT FLIP DISCS W/BLUE LIGHTS. 50% OF VIEWERS AT DEMO COULD NOT READ AT 180 M IN DAY
00225.16	PCMS / PVMS - TRAILER HYBRID	GUARDIAN TRILUX 1 "JR" PCMS	3-M COMPANY DAN SKITES 800/727-9111 CATHY ARDANAZ 800/962-6217 (WAS AMERICAN ELECTRONIC 1/01)	02/12/98	1711	R	LED/FLIP DISK, ONE LED/PIXEL. FLIP DISK IS "OLD" TECHNOLOGY. POTENTIAL HI MAINTENANCE COST. SOLAR, W/BATTERY & AC OPTION.
00225.16	PCMS / PVMS - TRAILER LED	ALLMAND MB6200	ALLMAND BROTHERS 800/562-1373	10/12/00	2222	R	UNIT FAILED LEGIBILITY, SIZE, AND MANY OTHER ITEMS. DEMO: 4-13-00.
00225.16	PCMS / PVMS - TRAILER LED	CMS T333	AMERICAN SIGNAL 770/448-6650 BILL PARISEN 702/395-5933	10/12/00	2225	R	DEMO 3-14-00. FAILED SEVERAL ITEMS INCLUDING LEGIBILITY.
00225.16	PCMS / PVMS - TRAILER LED - SOLAR	ADDCO DH1000 SCB BRICK	ADDCO 651/488-8600 DAVID BERKMAN 206/542-4624 TRAFFIC SAFETY 800/547-8518	06/08/00	2221	R	DIFFERENT CONFIGURATION FROM THE TRUCK MOUNTED VERSION. UNIT HARD TO READ DURING THE DAY AT 200M, 11 DEGREES RT.
00225.16	PCMS / PVMS - TRAILER SOLAR	CMS 300 MESSAGE BOARD	NATIONAL SIGNAL, INC. BILL BREWER, 714/994-3880 CANTEL OF MEDFORD 541-773-2765 REP: JOHN HUGHES	05/11/00	1846	R	LED, SOLAR POWERED. PHYSICAL EVALUATION OF UNIT FAILED AT NIGHT - NOBODY COULD READ IT AT LEFT 11 DEGREES.
00225.16	PCMS / PVMS - TRAILER SOLAR	SUNRAY HYBRID PCMS	US TRAFFIC / DISPLAY SOLUTIONS 800/733-7872 NELSON FLACK	12/12/96	1612	R	HYBRID UNIT. USES FLIP DISK AND ONE LED PER PIXEL. WE COULD NOT READ THE MESSAGE AT 650 OR 1000 FT STRAIGHT ON.
00225.16	PCMS / PVMS - TRAILER SOLAR - LED	SILENT MESSENGER II MB2848	SOLAR TECHNOLOGY, INC. BYRON ZERPHY 800/475-5442 BOB KENNETT 800/544-4939	05/11/00	2223	R	SOLAR POWERER PCMS W/3 LEDS PER PIXEL. FAILED DEMO ON 3-14-2000. VERY HARD TO READ AT 200M DAY OR NIGHT.
00225.16	PCMS / PVMS - TRAILER SOLAR - LED	SILENT MESSENGER MB3048	SOLAR TECHNOLOGY, INC. BYRON ZERPHY 800/475-5442 BOB KENNETT 800/544-4939	05/11/00	1959	R	SOLAR POWERED PCMS W/3 LEDS PER PIXEL. MFG ASKED US TO STOP THE REVIEW. THEY SAID IT WAS NOT POWERFUL ENOUGH.

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00225.16	PCMS / PVMS - TRAILER SOLAR - LED	WTLMB-S-LL(A)	WANCO, INC. 800/972-0755	05/11/00	2224	R	SOLAR POWERED W/4 LED'S PER PIXEL. AT THE DEMO 3/14/00 IT FAILED TO PERFORM WELL AT 200M DAY OR NIGHT.
00225.16	PCMS / PVMS - TRAILER SOLAR/DIESEL	ER 200 MESSAGE SIGN - TRAILER	NATIONAL SIGNAL, INC. BILL BREWER, 714/994-3880	11/12/98	1845	R	PERFORMED POORLY AT PRODUCT DEMONSTRATION. TOO BRIGHT AT NIGHT. NONE OF THE 8 VIEWERS ABLE TO READ AT NIGHT,AT 200M.
00225.16	PCMS / PVMS - TRUCK	LITEREADER 1010	LITESYS INC. / INTELICOM, INC. PO BOX 239 BELGRADE MT 406/388-9317	08/13/98	1517	R	REJECTED,AS THIS IS A ONE-LINE MESSAGE SIGN. UNIT IS ONE-LINE LED PVMS.
00225.16	PCMS / PVMS - TRUCK	MESSAGE MASTER 2000,MODEL72-16	ADVANCED SAFETY PRODUCTS STAN SCOTT, 760/728-3400	10/08/98	1369	R	FAILED LED SPEC.NO AMBER LEDS. UNIT HAS HIGH POWER DRAIN, AND THERE IS NO PROTECTION FOR THE PIXELS.ALSO POOR QULITY WELDS.
00225.16	PCMS / PVMS - TRUCK HYBRID	GUARDIAN TRILUX 1 "JR" PCMS	3-M COMPANY DAN SKITES 800/727-9111 CATHY ARDANAZ 800/962-6217 (WAS AMERICAN ELECTRONIC 1/01)	10/08/98	1711	R	LED/FLIP DISK, ONE LED/PIXEL. FLIP DISK IS "OLD" TECHNOLOGY. POTENTIAL HI MAINTENANCE COST. SOLAR, W/BATTERY & AC OPTION.
00225.16	PCMS / PVMS - TRUCK LED - FULL MATRIX	AMERICAN SIGNAL CMS GP 232	AMERICAN SIGNAL 770/448-6650 BILL PARISEN 702/395-5933 AMERICAN BARRICADE DON WARDEN 503/285-6616	10/08/98	1555	R	UNIT FAILED LED PIXEL QUALITY SPEC. SIGN COULD NOT BE READ AT 150 M,BY 4 OF 6 VIEWERS. HOWEVER, UNIT WAS WELL BUILT.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". DIESEL GENERATOR	MODEL 2001 DIESEL ARROW	NATIONAL SIGNAL, INC. LA MIRADA, CA 714/994-3880 DIST: CANTEL OF MEDFORD JOHN HUGHES, 541/773-2765	11/12/98	1844	R	UNIT IS NOT SOLAR POWERED. CONCERN OVER SINGLE-CIRCUIT LAMP SYSTEM. BELIEVED THAT MANUFACTURER HAS BETTER PROD.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". HALOGEN	AMIDA DLSB 25 LA	TEREX AMIDA 803/324-3011 FRED UNSWORTH 707/996-9650 FORESS SIGNS 541/928-5858	09/14/00	2305	R	HALOGEN, WAS NOT LEGIBLE AT 1.6 KM BY ANY OF THE VIEWERS.
00225.16	SEQUENTIAL ARROW SIGN TRAILER MOUNTED TYPE "C". LED, SOLAR POWERED	SUNRAY MODEL SOLAR 25 LED	US TRAFFIC / DISPLAY SOLUTIONS 800/733-7872 NELSON FLACK	11/08/01	2439	R	UNIT FAILED OUR DEMO ON 10/17/01. ALSO HAD POOR

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00225.27	FLAGGER AIDE	AUTOMATED FLAGGING MACHINE	STRATEGIC BUSINESS CONSULTING WEST LINN, OR ROBERT MERRILL, 503/655-2023	09/10/98	1782	R	DEVICE APPEARS TO BE PVMS, AND NOT A FLAGGING DEVICE. THEREFORE, PRODUCT IS NOT APPROVED AS SUCH.
00225.27	FLAGGER AIDE	ROBOSTOP	QUINTECH ELECTRONICS 412/349-1412	10/13/94	1178	R	REMOTE CONTROL TRIPOD MOUNTED STOP/SLOW PADDLE. COMMITTE DID NOT LIKE THE LACK OF HUMAN INTERVENTION. OTHER CONCERNS.
00225.27	FLAGGER AIDE FLASHING	CROSSWALKER	MICHAEL MAIER 209/358-5802	07/13/95	1335	R	HAS NOT BEEN CRASH TESTED BY THE FHWA. NOT KNOWN IF IT MEETS THE MUTCD. THIS PRODUCT IS ALSO CUMBERSOME.
00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	FLASHER/FLAGGER PADDLE	BAR-WES ENTERPRISES 503/673-4867 OR 503/672-4228 PO BOX 86, 172 PAGE ROAD WINCHESTER, OR 97495	06/09/94	1205	R	HAS AMBER L.E.D. LIGHTS. MUTCD REQUIRES CLEAR LIGHTS.
00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	KARBAN SAFETY LIGHT	KARBAN INDUSTRIAL SUPPLY 3707 24TH AVE. FOREST GROVE, OR 97116 503/359-5858	11/15/90	565	R	THIS NEEDS TO BE REVIEWED BY FHWA. STOP/SLOW SIGN MOUNTD ON A HAND TRUCK W/ A RED LITE BELOW THE "STOP" SIGN.
00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	LIGHTED FLAGGER SIGN	SAFETYTECH GARRY KILPATRICK 541/232-1464 TRAFFIC SAFETY SUPPLY DICK PARSONS 800/547-8518	02/10/00	1960	R	POLE SUPPORTED. TWO FLASHING WHITE LIGHTS ON SLOW SIDE AND TWO RED FLASING LIGHTS ON THE STOP SIDE.
00225.27	FLAGGER STOP/SLOW PADDLE FLASHING	STOP/SLOW PADDLE S/S-1	JIM SIANO SR 541/383-8111	10/10/96	1422	R	SIGN WAS TOP HEAVY AND HEAVY. FLASHING LIGHT WAS THE WRONG COLOR AND WAS VISIBLE FROM BOTH SIDES OF THE SIGN.
00225.27	FLAGGER STOP/SLOW PADDLE HANDLE W/FLASHING LIGHTS	LIFE LITE	RICK LOCKWOOD 503/266-8094	04/13/00	1963	R	HANDLE ONLY WITH TWO FLASHING LIGHTS. MOUNTS TO USERS PADDLE LIGHTS ARE WHITE AND VERY BRIGHT!
00225.27	FLAGGER STOP/SLOW PADDLE POLE, NO SIGN	TRAFFIC CONTROL ZONE DEVICE	BOS SYSTEMS LLC LARRY BROWN 541/882-3166	09/14/00	1935	R	POLE WITH RED LIGHTS. NO SIGN. WRONG COLOR. POSITION COULD BE MOUNTED INCORRECTLY, BECAUSE SIGN NOT PERMANENTLY ATTACHED.

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00225.27	FLAGGER STOP/SLOW PADDLE ROLL-UP, NON-FLASHING OCCASIONAL/EMERGENCY USE	FAN-A-SIGN	SPORTNIKS, INC. 541/557-1555	04/12/01	2419	R	SHEETING DOES NOT MEET RETRO REQUIREMENTS. NOT SEMI-RIGID. DOES NOT LIE FLAT. USES SUPERBRITE SHEETING.
00225.27	FLAGGER STOP/SLOW PADDLE ROLL-UP, NON-FLASHING OCCASIONAL/EMERGENCY USE	STOP SLOW PADDLE, ROLL-UP	PACIFIC SAFETY SUPPLY 503/364-5641	10/10/96	1487	R	SPECS REQUIRE HIGH INTENSITY, PRODUCT HAS NOT DEMONSTRATED THAT LEVEL OF BRIGHTNESS. REFLEXITE ROLLUP SHEETING.
00225.42	BARRIER, TEMP, PLASTIC WATER-FILLED NCHRP 350 TL-2	TROJAN 2001 BARRIER	C & C INDUSTRIES, INC. 541/267-4804 DIST:WESTERN SAFETY ASSOCIATES BYRON, CA; 510/634-2960	02/12/98	1743	R	POLYETHYLENE BARRIER, DESIGNED TO FILL WITH WATER, OR SAND NOT EVALUATED BY FHWA CRASH TEST.
00225.42	BARRIER, TEMP, PLASTIC WATER-FILLED NCHRP 350 TL-3	GUARDIAN SAFETY BARRIER TL-3	ARMORCAST PRODUCTS CO. 818/982-3600	05/14/98	1288	R	PRODUCT IS QUALIFIED FOR NCHRP 350 TL-2, BUT NOT FOR TL-3. VERY COSTLY IF HIT. EXCESSIVE DEFLECTION.
00280.10	EROSION CONTROL MATTING	BONTERRA AMERICA CF4	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/12/98	1669	R	PROD.DOESN'T APPEAR ON TEXAS' DOT QPL,AS ODOT REQUIRES. MANUF.SAYS PROD.GOOD FOR HIGH VEL.STREAMBANKS/FLOW CHANNELS.
00280.10	EROSION CONTROL MATTING	BONTERRA AMERICA ENCS2	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/12/98	1668	R	PROD.DOESN'T APPEAR ON TEXAS' DOT QPL,AS ODOT REQUIRES. PROD.IS CLAIMED,100% BIODE- GRADABLE,&GOOD FOR ST. SLOPES.
00280.10	EROSION CONTROL MATTING	BONTERRA CF7	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	08/13/98	1670	R	100% COIR FIBER HIGH STRENGTH ORGANIC GEOTEXTILE MAT. REJECTED, BECAUSE IT DOESN'T APPEAR ON TX QPL
00280.10	EROSION CONTROL MATTING	BONTERRA CF9	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	08/13/98	1671	R	100% COIR FIBER HIGH STRENGTH ORGANIC GEOTEXTILE MAT. REJECTED, BECAUSE IT DOESN'T APPEAR ON TX QPL.
00280.10	EROSION CONTROL MATTING	BONTERRA CP2	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	08/13/98	1677	R	50% COIR,50% UV TREATED POLY- PROPYLENE EROSION CONTROL BLANKET. REJECTED, BECAUSE IT DOESN'T APPEAR ON TX QPL.

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00280.10	EROSION CONTROL MATTING	BONTERRA ENC2	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/12/98	1667	R	PROD.DOESN'T APPEAR ON TEXAS' DOT QPL,AS ODOT REQUIRES. PROD.IS CLAIMED,100% BIODEGRADABLE,&GOOD FOR ST. SLOPES.
00280.10	EROSION CONTROL MATTING	BONTERRA ENS2	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	08/13/98	1675	R	100% STRAW BLANKET, WITH 100% BIODEGRADABLE NETTING, ON BOTH SIDED.REJECTED,LARGELY BECAUSE IT DOESN'T APPEAR ON TX QPL.
00280.10	EROSION CONTROL MATTING	BONTERRA HP90	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	08/13/98	1673	R	NON-NETTED NEEDLEPUNCHED COIR EROSION CONTROL BLANKET. REJECTED, BECAUSE IT DOESN'T APPEAR ON TX QPL.
00280.10	FLEXIBLE CHANNEL LINER	BONTERRA BOGMAT	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/11/99	1672	R	REJECTED,AS IT DOES NOT APPEAR ON THE TX DOT'S QPL, AS ODOT REQUIRES. PRODUCT IS 100% COIR BIODEGRADABLE PLANTING MAT.
00280.10	MULCHES	NORTH AMERICAN GREEN C125BN	NORTH AMERICAN GREEN, INC. 812/687-6632 DIST: ACF WEST, PORTLAND OR 800/878-5115; 503/771-5115	01/08/98	1382	R	NOT LISTED ON TEXAS DOT'S QPL; DESIGNED FOR SLOPES AS MUCH AS 2.5:1; LONGEVITY OF ABOUT 24 MONTHS.
00280.10	MULCHES-CELLULOSE FIBER	ROGUE AGRI-MULCH	ROGUE AGRI-MULCH 10590 WHEELER RD CENTRAL POINT, OR 97502 NORMAN SEASE 503/826-9767	08/05/98	287	R	MANUFACTURER, OUT OF BUSINESS 15% ACTIVATED CARBON LADEN WOOD ASH/85% DECOMPOSED FOREST HUMAS &VARIOUS SOIL TYPES.
00280.10	SEDIMENT FILTER OUTLET PROTECTION	DIRTBAG 53	AFC, INC. REP: DAVID KELLY 800/448-3636 DIST.: AFC WEST, INC. REP: MELISSA HURLEY 503/771-5115	03/11/99	1885	R	REJECTED. DIRTBAG 55 IS CONDITIONAL, AND IS BOTH LARGER AND STRONGER THAN THIS PRODUCT, DIRTBAG 53.
00280.10	SLOPE PROTECTION, A,B,C,D	BONTERRA BOGMAT	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	03/11/99	1672	R	REJECTED,AS IT DOES NOT APPEAR ON THE TX DOT'S QPL, AS ODOT REQUIRES. PRODUCT IS 100% COIR BIODEGRADABLE PLANTING MAT.
00280.10	SLOPE PROTECTION, TYPE A	HYDRO BLANKET	RECYCLED TECHNOLOGY, INC. BILL OLSON 503/691-5845	11/12/98	1868	R	NOT ON THE TEXAS DOT QPL LIST.

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00280.10	SLOPE PROTECTION, TYPE A	TENAX MULTIMAT 100	TENAX CORPORATION 410.522.7000 ADVANCED DRAINAGE 800.733.7473	07/09/98	1776	R	NOT ON THE TEXAS DOT QPL LIST. POLYPROPYLENE BIAXIALLY ORIENTED. CORRUGATED INNER LAYER.
00280.10	SLOPE PROTECTION, TYPE B	HYDRO BLANKET	RECYCLED TECHNOLOGY, INC. BILL OLSON 503/691-5845	11/12/98	1868	R	NOT ON THE TEXAS DOT QPL LIST.
00280.10	SLOPE PROTECTION, TYPE C	HYDRO BLANKET	RECYCLED TECHNOLOGY, INC. BILL OLSON 503/691-5845	11/12/98	1868	R	NOT ON THE TEXAS DOT QPL LIST.
00280.10	SLOPE PROTECTION, TYPE D	HYDRO BLANKET	RECYCLED TECHNOLOGY, INC. BILL OLSON 503/691-5845	11/12/98	1868	R	NOT ON THE TEXAS DOT QPL LIST.
00280.10B	CHECK DAM, TYPE 4	BURLAP SANDBAG #BBN101830	SACRAMENTO BAG 800/283-2247	07/11/02	2428	R	APPARENT OPENING SIZE WOULD ALLOW SAND TO ESCAPE.
00280.10H	INLET PROTECTION	L-SNAKE BAG	SACRAMENTO BAG CO 800/287-2247 BUSSARD EROSION CONTROL 800/252-2692	06/14/01	2427	R	TYPE 2. CONCERN-WATER MAY NOT BE ABLE TO MOVE THROUGH BAG & PONDING ON PAVEMENT.
00280.10H	INLET PROTECTION	STREAM SAVER	ZYMARK INC. 503/658-6702 JIM BRANNAMAN 503/872-9242 FAMILIAN N.W. 503/240-6747	04/11/02	2165	R	TYPE 3. WATCH FOR CLOGGING. PROBLEMS WERE FOUND WITH THE FIELD INSTALLATIONS. THE CLEAN OUT METHOD IS LABOR INSTENSIVE
00280.10N	SEDIMENT BARRIER, TEMP.	BURLAP SANDBAG #BBN101830	SACRAMENTO BAG 800/283-2247	07/11/02	2428	R	TYPE 3. APPARENT OPENING SIZE WOULD ALLOW SAND TO ESCAPE.
00330.00	SOIL STABILIZER, CHEMICAL	CONDOR SS	EARTH SCIENCE PRODUCTS CORP PO BOX 327 WILSONVILLE, OR 97070 503/678-1216	01/01/90	375	R	PRODUCT APPEARS TO WORK IF BLENDED, BUT NOT IF INJECTED DOES NOT AFFECT DESIGN THICK SO REJECTED FOR INJECTION.

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00330.00	SOIL STABILIZER, CHEMICAL	WATERLINE II	VINCENT MARSH 813/791-7913 VEND: WATERLINE TECHNOLOGY INC DAMON BEASLEY 703/372-6426	08/12/93	876	R	CHEM. FAMILY METHYSILICONATE & WATER DILUTED 12:1 WITH WATER. SUBMITAL REMARKS DIDN'T APPEAR TO BE ADEQUATELY SUBSTANTIATED
00430.00	DRAIN, SUBSURFACE	EEE ZZZ LAY DRAIN 2001	EEE ZZZ LAY DRAIN COMPANY MIKE HOUCK 704/883-2130 E Z DRAIN: ALEX MAUCK 503/492-2500	11/04/93	1044	R	100 MM PERFOR PVC, SURROUNDED BY 50MM RECYC EXPANDED POLYSTYRENE. LARGE OPENINGS MAY ALLOW PARTICLES INTO PIPE.
00435.00	DRAIN, WICK	EEE ZZZ LAY DRAIN 2001	EEE ZZZ LAY DRAIN COMPANY MIKE HOUCK 704/883-2130 E Z DRAIN: ALEX MAUCK 503/492-2500	11/04/93	1044	R	100 MM PERFOR PVC, SURROUNDED BY 50MM RECYC EXPANDED POLYSTYRENE. LARGE OPENINGS MAY ALLOW PARTICLES INTO PIPE.
00470.00	MANHOLE COVER	SELF ADJUSTING MANHOLE COVER	GARY BOUDREAU	07/13/00	2196	R	NOT A FINISHED PRODUCT YET.
00530.41	REBAR CHAIR	PAC CHAIR ALSO VARIABLE HEIGHT HI CHAIR	PAC CHAIR INTERNATIONAL 600-815 HORNBY ST. VANCOUVER B.C. CANADA V6Z 2E6 JEF SUPPLY 800/452-2994	12/12/91	277	R	SLOTS TOO SMALL TO ALLOW 19MM AGGREGATE TO PASS EASILY. COULD BE BIGGER THAN 32 ML. ALSO SEE 00755.43
00530.42	SPLICE, BUTT, MECHANICAL	BAR-LOCK S (SHORT) SHORT VERSION	BAR-LOCK (MBT) COUPLER SYSTEMS 800/755-4888 MATT CROSS BELLINGHAM, WA 98226 LARRY ANDRESEN 800/755-4888	07/11/98	1031	R	PROBLEMS WITH COATED BAR. ADDITIONAL PROBLEMS WITH SOME SIZES OF BLACK STEEL. LONG STILL OK (WITHOUT "S")
00530.42	SPLICE, LAP, MECHANICAL	GRIP TWIST	BARSPlice PRODUCTS INC P.O. BOX 31308 DAYTON, OHIO 45341 CAL BILLIT 513/252-3456	01/17/91	613	R	PRODUCT DID NOT MEET THE REQUIREMENT OF 90% OF ULTIMATE STRENGTH OF THE STEEL.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	EPCON CERAMIC 6 EPOXY	ITW RAMSET / REDHEAD 800/899-7890	09/09/99	293	R	FAILED OUR HIGH STRENGTH REQUIREMENTS.
00535.10	CONCRETE ANCHOR, RESIN HS HIGH STRENGTH	EPCON GRANITE 5 EPOXY	ITW RAMSET / REDHEAD 800/899-7890	09/09/99	1322	R	FAILED OUR HIGH STRENGTH REQUIREMENTS.

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00535.10	CONCRETE ANCHOR, RESIN LS	BRUTEM AB EPOXY	MASTER BUILDERS 800/227-3350 REP: MIKE STRONK 503/652-2051 WHITE CAP 503/287-4151 VEN: WATTS SUPPLY 800/574-8344	08/12/91	29	R	FOR USE FOR TEMPS BETWEEN 4.4 TO 21 DEG C. REJ WHEN MFG FAILED TO PROVIDE RESIN STR. TESTS. ORIG. STATUS WAS "P".
00535.10	CONCRETE ANCHOR, RESIN LS	KELIBOND POLYESTER	KELKEN-GOLD INC PO BOX 336, HAZLET, NJ 07730 201/753-0088 OR 800/342-5154 REP: CORAL CO. 503/655-6351	07/01/91	152	R	REJECTED, NO RESPONSE TO OUR REQUEST FOR TEST RESULTS.
00535.10	CONCRETE ANCHOR, RESIN LS	KELIGROUT POLYESTER	KELKEN-GOLD INC PO BOX 336, HAZLET, NJ 07730 201/753-0088 OR 800/342-5154 REP: CORAL CO. 503/655-6351	07/01/91	186	R	REJECTED, NO RESPONSE TO OUR REQUEST FOR TEST RESULTS. ORIG Q FOR DOWELS, NON SAFETY.
00535.10	CONCRETE ANCHOR, RESIN LS	LIEBIG ADHESIVE ANCHOR POLYESTER	LIEBIG INTERNATIONAL INC 1545 AVON ST., EXTENDED CHARLOTTESVILLE, VA 22901 804/979-7115 OR 800/247-2658	07/01/91	306	R	REJECTED, NO RESPONSE TO OUR REQUEST FOR TEST RESULTS. ORIGINALLY Q AS LOW STRENGTH.
00535.10	CONCRETE ANCHOR, RESIN LS	PARABOND CAPSULE POLYESTER	MOLY FASTENING SYSTEMS 504 MT. LAUREL AVE. TEMPLE, PA 19560 REP: 213/926-6576	07/01/91	934	R	REJECTED, NO RESPONSE TO OUR REQUEST FOR TEST RESULTS. ORIGINALLY Q 5/1/88.
00535.10	CONCRETE ANCHOR, RESIN LS	PG 1-215 HM GEL EPOXY	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 WHITE CAP 503/287-4151	08/13/92	924	R	THE MANUFACTURER DID NOT FURNISH TEST REPORTS THAT WE REQUIRED. DO NOT USE FOR LOW OR HIGH STRENGTH APPLICAT.
00535.10	CONCRETE ANCHOR, RESIN LS	PG 2089 EPOXY	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 WHITE CAP 503/287-4151	08/13/92	925	R	THE MANUFACTURER DID NOT FURNISH TEST REPORTS THAT WE REQUIRED. DO NOT USE FOR LOW OR HIGH STRENGHT APPLICAT.
00535.10	CONCRETE ANCHOR, RESIN LS	SPEC BOND 100 EPOXY	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	989	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
00535.10	CONCRETE ANCHOR, RESIN LS	SPEC BOND 150 EPOXY	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	990	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.

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00535.10	CONCRETE ANCHOR, RESIN LS	SPEC BOND 200 EPOXY	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	991	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
00535.10	CONCRETE ANCHOR, RESIN LS	SPEC BOND 201 EPOXY	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	992	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
00535.10	CONCRETE ANCHOR, RESIN LS	SPEC BOND 50 EPOXY	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	988	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	CHEM-BOLT NO RESIN SPECIFIED.	POWERS FASTENERS MARK ZIEGLER 206/933-6442	10/11/01	1974	R	THIS IS A BOLT ONLY. THERE WAS NO RESIN SUPPLIED. THIS BOLT MAY BE OK IF IT MEETS THE SPECS, BUT USE QPL RESIN.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	CONCRETSIVE HP EPOXY	MASTER BUILDERS 800/227-3350 REP: MIKE STRONK 503/652-2051 WHITE CAP 503/287-4151 800/452-2994	08/12/91	26	R	FOR USE WHEN TEMP 4.4-21 DEG C MANUFACTURER FAILED TO SEND US RESIN STRENGTH TESTS. WAS "P". WAS CALLED CONCRETSIVE 1441.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	CONCRETSIVE HP LPL EPOXY	MASTER BUILDERS 800/227-3350 REP: MIKE STRONK 503/652-2051 WATTS SUPPLY 800/574-8344	08/12/98	26	R	FOR USE WHEN TEMP IS < 29 DEG.C. MFG FAILED TO SEND US STR. TESTS. STAT. WAS "P". NAME WAS CONCRETSIVE 1440.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	CONCRETSIVE HP SPL EPOXY	MASTER BUILDERS 800/227-3350 REP: MIKE STRONK 503/652-2051 VEN: WATTS SUPPLY 800/574-8344	08/12/91	26	R	FOR USE WHEN TEMP IS -4 TO 10 DEG C. PROD. REJ'D WHEN MFG FAILED TO SEND RESIN STR. TESTS. WAS "P". WAS CONCR.1442
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	DURALITH LV EPOXY	TAMMS INDUSTRIES, 800/218-2667 DAVE DILLON 425/820-4576	01/10/02	2454	R	MANUFACTURER DID NOT HAVE THE INDEPENDENT TESTS WE REQUIRE.
00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	LIQUID ROC 500 EPOXY TWIN TUBE EPOXY	MKT FASTENING 800/336-1640 NORTHCOAST MANUFACTURER AGENCY JOHN STONE 206/366-8980 WILLIAMS FORM 503/286-3647	08/14/97	717	R	WAS Q - LOW STRENGTH. MFG HAS DISCONTINUED PRODUCTN. WAS OWNED BY GUNNEBO (1/2000)

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00535.10	CONCRETE ANCHOR, RESIN LS LOW STRENGTH	PRO-POXY 200 EPOXY	UNITEX, KANSAS CITY, MO 64120 JOHN GRISSINGER 800/821-5846 MASONS SUPPLY CO. 800/537-3407	11/10/94	963	R	MFG DID NOT WANT TO DO THE TESTS FOR ASTM E-488 TO PROVE THE PULL OUT REQUIREMENTS.
00535.10	CONCRETE ANCHRO, RESIN LS LOW STRENGTH	CHEM STUD	POWERS FASTENERS MARK ZIEGLER 206/933-6442	02/14/02	1973	R	TESTS NOT FURNISHED FOR REBAR.
00540.52	STAIN FINISH FOR CONCRETE SURFACES	CANYON TONE STAIN SOLVENT BASED	UNITED COATINGS E. 19011 CATALDO GREENACRES, WA 99016 800/541-4383	04/08/99	270	R	EXCEEDS MAX. V.O.C. ALLOWED BY THE E.P.A.; MAY BE USED, UNTIL CURRENT SUPPLIES ARE EXHAUSTED BUT PRODCUTION ENDS 9/99.
00560.00	BRIDGE, TEMP./PERMANENT	FLATCARS	SKIP GIBBS RAILCARS P.O. BOX 686 REDWOOD VALLEY, CA 95470 707/485-5822 OR 707/463-3777	09/12/91	687	R	THESE ARE USED BUT THE SERVICE AND REPAIR HISTORY IS UNKNOWN. 89' STEEL DECKS.
00580.00	PLASTIC COMPOSITE BEARING	ORKOT BEARINGS	ORKOT 541/688-5529	12/13/01	1192	R	DOES NOT MEET ANY OF THE AASHTO BEARING TYPES.
00582.00	BEARING PAD, BRIDGE	ALERT T/F BEARING PAD	ALERT MANUFACTURING & SUPPLY 847/350-0460 DALTON ASSOCIATES E.TERRY DALTON 425/450-9462	04/09/92	758	R	HAS LOWER TOLERANCE OF ROTATIONS & HORIZONTAL MOVEMENT THAN AASHTO ELASTOMERIC PADS.
00582.00	TFE BEARING	STRESSGLIDE	CONTINENTAL RUBBER 503/393-3341 SPECIALTY ENGINEERING BRUCE HOLLIDAY 503/646-0801	12/14/95	1401	R	DOES NOT MEET AASHTO SPECS FOR TFE SURFACES.
00585.45	COAL TAR EPOXY POLYAMIDE PAINT	TARSET 7080 MAXI-BUILD II	PORTER PAINT CO PO BOX 1439 LOUISVILLE, KY 40201 502/588-9200	05/01/88	695	R	DOES NOT MEET SSPC-16
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	MEL-ROL	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 WHITE CAP 503/287-4151	05/12/94	786	R	SUITABLE FOR WALL APPS.- WE WOULD MOST LIKELY ONLY USE FOR BRIDGE DECKS.

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00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	MELNAR	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 WHITE CAP 503/287-4151	05/12/94	787	R	SUITABLE FOR WALL APPLICA- TIONS - WE ONLY USE MEMBRANES FOR BRIDGE DECKS.
00591.00	MEMBRANE WATERPROOFING FOR NON-WARRANTY PROJECTS	MIRACLAY	MIRADRI 888/464-7234 RW SIMMONS 253/946-3740	03/09/95	1249	R	BENTONIET CLAY PRODUCT. IT IS DESIGNED FOR VERTICAL WALLS OR MUD SLAB WATERPROOFING.
00591.00	MEMBRANE WATERPROOFING FOR WARRANTY PROJECTS	ELIMINATOR	STERLING LLOYD PRODUCTS 203/230-9448 BRIDGECARE INC. 604/293-5418	09/13/01	1439	R	MFG DID NOT WANT TO WARRANT HIS PRODUCT.
00591.00	MEMBRANE WATERPROOFING FOR WARRANTY PROJECTS	MIRADRI 700	TC MIRADRI 888/464-7234 WOODY EARL 800/869-8905 STEPHEN MARTIN 425/488-5948	08/08/02	1248	R	GRADE LIMIT: 10%, AND 15% WITH RESTRICTIONS. MFG WILL NOT WARRANT PROJECTS.
00591.00	MEMBRANE WATERPROOFING FOR WARRANTY PROJECTS	MIRASEAL 9100	MIRADRI 888/464-7234 RW SIMMONS 253/946-3740	09/13/01	1250	R	MFG DID NOT WANT TO WARRANT THE PRODUCT.
00591.00	MEMBRANE WATERPROOFING FOR WARRANTY PROJECTS	ROYAL GARD PLUS #104ARHT	ROYSTON LABORATORIES, INC. 800/245-3209 JOHN TORTORETTE	09/13/01	2333	R	MFG DID NOT WANT TO WARRANT THE PRODUCT.
00591.00	MEMBRANE WATERPROOFING FOR WARRANTY PROJECTS	ROYSTON BRIDGE DECK 10AEP	ROYSTON LABORATORIES, INC. 800/245-3209 JOHN TORTORETTE	09/13/01	2334	R	MFG DID NOT WANT TO WARRANT THE PRODUCT.
00597.11	CLEAR DAMP PROOFING	KRILLISEAL 17085	RODDA PAINT 12000 SW GARDEN PLACE PORTLAND OR 97223 503/521-4300	12/13/01	1723	R	FOR BUILDING EXT WALLS. VOC'S EXCEED EPA LIMITS.
00597.11	CLEAR DAMP PROOFING	WEATHER WORKER S-40 (J-29) VOC'S = HIGH!	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASON'S SUPPLY, 800/537-3407 WHITE CAP 503/287-4151	12/11/97	1374	R	REJECTED - VOC'S TOO HIGH

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00597.11	CLEAR DAMP PROOFING	WEATHERWORKER (J-26) VOC'S = 814	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASON'S SUPPLY, 800/537-3407 WHITE CAP 503/287-4151	05/08/97	674	R	REJECTED FOR PORTLAND METRO AREA - VOC'S TOO HIGH. OK FOR THE REST OF OREGON UNTIL 1/98. NO APPLICATION.
00597.11	CLEAR DAMP PROOFING SILANE, SILOXANE COPOLYMER	HYDROPEL	L & M CONSTRUCTION MATERIALS 800/363-3331 OR 420/453-6600 BILL PAVITT 425/562-6076	01/08/98	1317	R	PROD.DOES NOT MEET NEW VOC LIMITS. WOULD HAVE REDUCED RE- PAIR OF MOISTURE PENETRATION BY HALF.
00597.11	FILLERS & SEALERS	AQUA PLUG	MINWAX CO. 415/964-9676, CA. MINWAX CO. 201/391-0253, NJ. VEN: VALLEY CONTRACTORS SUPPLY KATHY FRITZ 503/344-5677, OR.	12/13/90	600	R	INCIDENTAL TO OTHER WORK
00745.00	ASPHALT COLD PATCH - HP BULK	KING PATCH	PACIFIC ASPHALT MARKETING 801/785-1560	06/13/02	483	R	PART OF RESEARCH PROJECT 2002. DID NOT PERFORM WELL ON ROAD. FAILED GRADATION & WORKABILITY TESTS
00745.22	TRUCKBED COATING MATERIAL	SLICK AND SLIDE	ENVIRO-CHEM, 800/557-2200	01/09/97	1512	R	COULD NOT DEMONSTRATE PASSING TESTS BY ARIZONA DOT.
00746.00	POURED FILLER COLD POURED	KOCH 9005 EM	KOCH MATERIALS CO TONY FLYNN 800/521-9593 BRETTAUER OIL ROB HARRIS 800/682-2449	12/09/93	995	R	NEED TEST RESULTS FOR ASTM D1190 OR ASTM D3405.
00746.00	POURED FILLER COLD POURED	QUAKER QS 131 SEALER	CARLISLE COATINGS AND WATERPRO 800/338-8701 WAS QUAKER...12/95	07/01/89	438	R	REJECTED FOR LACK OF PERFORMANCE.
00746.00	POURED FILLER COLD POURED	SEALTIGHT 158	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 WHITE CAP 503/287-41511261	08/01/89	464	R	REJECTED FOR USE, PRODUCT IS OLD TECHNOLOGY AND NOT SOMETHING WE WANT TO TRY.
00746.00	POURED FILLER COLD POURED	TRUGUARD CRACK SEALANT EMULSIFIED ASPHALT	OWENS-CORNING FIBERGLAS DETROIT, MI 48217 SPEC ASPHALT PRODUCTS ED COOK 503/295-6490	10/13/95	363	R	USED ON VARIOUS PROJECTS C11605 10/95, C10538 10/88 C11463 5/95 C11064 9/93 LOTS OF PROBLEMS WITH CURING.

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00746.00	POURED FILLER HOT POURED	CRAFCO 34200	CRAFCO INC. 800/528-8242 VENDOR: ALBINA FUEL CO. 3246 NE BROADWAY PORTLAND, OR 503/281-1161 OR 800/888-5048	10/04/90	569	R	FIELD PERFORMANCE INDICATES THIS PRODUCT IS TOO SOFT THIS IS A PARKING LOT SEAL.
00746.00	POURED FILLER HOT POURED	MEGASEAL	MEGGISON ENTERPRISES, ARVADA, CO 303/296-3439	05/14/98	1664	R	DOESN'T MEET D3405.
00746.00	POURED FILLER HOT POURED	SOF-SEAL, HOT APPLIED	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 WHITE CAP 503/287-41511261	10/03/90	541	R	FAILS ASTM D 1190, TOO SOFT FAILED PERFORMANCE TESTS
00746.00	POURED FILLER HOT POURED ASPHALTIC	ELASTOFLEX 50	MAXWELL PRODUCTS 801/972-2090	07/14/94	1008	R	DOES NOT MEET AASHTO M-173 OR AASHTO M-301 WAS ELASTOFLEX 50S
00746.00	POURED FILLER HOT POURED ASPHALTIC	ELASTOFLEX 51	MAXWELL PRODUCTS 801/972-2090	07/14/94	1009	R	MFG COULD NOT PROVE IT MEETS AASHTO M-173 OR M-301 WAS ELASTOFLEX 51R
00820.00	CONCRETE BARRIER	GP LINK	GUNNAR PREFAB AB 312/560-0583	04/12/01	2385	R	FHWA APPROVED-BUT NOT COMPAT- ABLE WITH OUR CURRENT SYSTEM. EXCESSIVE DEFLECTION. BENEFITS DON'T WARRANT COST OF CHANGE.
00820.11	BARRIER MARKER REFLECTIVE	BARRIER MARKER FB-33 AND FB-34	ASTRO OPTICS CORP 312/893-2460 REP: MARY DAMSCH 847/428-3181 GARY KINBERG 847/428-3181	02/11/99	1491	R	REFLECTIVE TAPE ON PLASTIC "L" MARKER. 1 AND 2 SIDED AVAILABLE.
00820.11	BARRIER MARKER REFLECTORIZED	DAVIDSON PCBM 12	BRUNZEL EXTRUSION, TACOMA MIKE MADDEN 800/822-7528 TRAFFIC SAFETY 800/547-8518 (WAS DAVIDSON PLASTICS 1/01)	07/08/99	1611	R	REFLECTIVE TAPE ON PLASTIC "L" MARKER. DOES NOT MEET OUR REQUIREMENTS FOR PRISMATIC UNITS.
00820.11	BARRIER MARKER REFLECTORIZED	FLEX 2020	DURAFLEX CORPORATION 201/962-7779	07/08/99	380	R	THIS PRODUCT USES SHEETING. OUR SPECS REQUIRE PRISMATIC.

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00820.11	BARRIER MARKER REFLECTORIZED	FLEXIBLE BARRIER MARKER	VEGA MOLDED PRODUCTS 714/891-7911	07/08/99	1768	R	MFG REFUSED TO SEND INFO ON THEIR SHEETING SPECS.
00820.11	BARRIER MARKER REFLECTORIZED	GREENLINE BMD-1	GREENLINE PRODUCTS PAUL SCHUBRING, 916/725-1373 800/438-4733	07/08/99	1049	R	DOES NOT MEET OUR REQUIREMENTS FOR PRISMATIC REFLECTORS. THIS IS DESIGNED FOR TAPE.
00820.11	BARRIER MARKER REFLECTORIZED	JD SERIES BARRIER DELINEATOR	VEGA MOLDED PRODUCTS 714/891-7911	07/08/99	1765	R	MFG REFUSED TO SEND INFO ON THEIR SHEETING SPECS.
00820.11	BARRIER MARKER REFLECTORIZED	REPLACEABLE BARRIER MARKER	SAFE-HIT CORP. 800/770-6755 MARK ISON 425/424-2147 JIM CROWLEY 800/770-6755	07/08/99	1625	R	THIS USES SHEETING, WE REQUIRE PRISMATIC REFLEX UNITS.
00820.11	BARRIER MARKER REFLECTORIZED SHEETING	3-M 3870	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	07/08/99	1947	R	THIS IS HI INTENSITY SHEETING. OUR SPECS REQUIRE PRISMATIC.
00820.11	BARRIER MARKER REFLECTORIZED SHEETING	3-M 3990	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718	07/08/99	1948	R	THIS IS DIAMOND GRADE SHEETING OUR SPECS REQUIRE PRISMATIC.
00820.11	BARRIER MARKER REFLECTORIZED SHEETING	REFLEXITE AP1000	REFLEXITE CORPORATION 860/223-9297 JOSEPH A RIEHL 916/739-6903	07/08/99	1946	R	REFLECTIVE TAPE ON PLASTIC "L" MARKER. DOES NOT MEET OUR REQUIREMENTS FOR PRISMATIC UNITS.
00820.11	BARRIER MARKER REFLECTORIZED SHEETING	REFLEXITE AR1000	REFLEXITE CORPORATION 860/223-9297 JOSEPH A RIEHL 916/739-6903	07/08/99	1557	R	ADHESIVE BACKED RETROREFLECT SHEETING. OUR SPECS REQUIRE PRISMATIC UNITS. ABRASIVE RESISTANCE NOT PROVEN.
00822.00	GLARE SHIELDS	DURA-SCREEN MODULAR GLARE SCREEN	THE LINE COMPANY 916/366-5752 BOB BUNN 503/538-8903	07/13/96	1175	R	RECYCLED-PLASTIC 50X100MM BASE FAILED LAB TEST #96-2916 PASSED WITH NEW FINS ON SIDE, BUT DISCONTINUED 10/2001.

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00822.00	GLARE SHIELDS	FLEXSTAKE GLARE SCREEN	FLEXSTAKE, INC. CYNTHIA HORTON 800/348-9839 PUBLIC WORKS SUPPLY 800/754-6551	04/10/97	1502	R	PADDLE RECYCLED POLYCARBONATE. BASE POLYCARBONATE EXTRUSION.
00822.00	GLARE SHIELDS	SAFE-HIT GLARE SCREEN	SAFE-HIT CORP. 800/770-6755 MARK ISON 425/424-2147 JIM CROWLEY 800/770-6755	11/13/97	1589	R	PROBLEMS WITH COLD IMPACT. THE PLASTIC BECAME VERY BRITTLE IN COLD WEATHER. BLEW APART WHEN IMPACTED (COLD).
00850.10	LEGEND MARKING TYPE A HOT POURED THERMOPLASTIC 3.0 MM	CATA-THERM	CATAPHOTE 800/221-2574 PETE MCCAFFERTY	02/01/00	2233	R	DID POORLY ON CONCRETE TEST DECK 9/99. PRIMERLESS.
00850.10	LEGEND MARKING TYPE A HOT POURED THERMOPLASTIC 3.0 MM	SWAROLUX 003	SWARCO REFLEX 254/562-9879 JORGE SALAZAR	02/10/00	2231	R	DID POORLY ON CONCRETE TEST DECK 9/99. EXPERIMENTING WITH PRIMERLESS VERSION. MAY TRY LATER WITH PRIMER.
00850.10	LEGEND MARKING TYPE B PREFORMED THERMOPLASTIC 3.2 MM	FLAMETAPE	ENNIS PAINT 800/331-8118	02/10/00	2227	R	DID NOT STICK TO CONCRETE ON OUR TEST DECK (9/99).
00851.10	TAPE, PERMANENT STRIPING NON-PATTERNED	3-M 5730	3-M COMPANY 800/362-3455 CATHY ARDANAZ 503/612-6718 TRAFFIC CONTROL MATERIALS DIV. 800/553-1380	06/12/97	1082	R	STUDY BY RESEARCH UNIT SHOWED THIS PRODUCT TO STAY IN PLACE WELL-BUT IT LACKED THE REFLECT IVITY NEEDED TO BE PERMANENT.
00862.10	TRAFFIC LINE, DURABLE METHOD A THERMOPLASTIC 3.0 MM	SWAROLUX 003	SWARCO REFLEX 254/562-9879 JORGE SALAZAR	02/10/00	2232	R	DID POORLY ON CONCRETE TEST DECK 9/99. EXPERIMENTING WITH PRIMERLESS VERSION. MAY TRY LATER WITH PRIMER.
00862.10	TRAFFIC LINE, DURABLE METHOD A AND E THERMOPLASTIC 3.0 MM	3D THERMO	CATAPHOTE 800/221-2574 PETE MCCAFFERTY	02/10/00	2232	R	DID POORLY ON CONCRETE TEST DECK 9/99. PRIMERLESS.
00862.10	TRAFFIC LINE, DURABLE METHOD B THERMOPLASTIC 3.0 MM	CATA-THERM	CATAPHOTE 800/221-2574 PETE MCCAFFERTY	02/10/00	2233	R	DID POORLY ON CONCRETE TEST DECK 9/99. PRIMERLESS.

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00862.10	TRAFFIC LINE, DURABLE METHODS B AND F THERMOPLASTIC NON PROFILED	THINLINE	ENNIS PAINT 800/331-8118	04/13/00	1349	R	THERMOPLASTIC LINE W/O BUMPS. APPEARS TO BE 1 - 2 YEAR LINE. MINIMUM: 2.3 MM MINIMUM THICK. DID NOT MEET OUR EXPECTATIONS.
00920.00	SIGN BASE, PRECAST	CONCRETE SIGN FOOTING	ERICSSON MFG. VANCOUVER, BC CANADA V6M 3P9 KRISTINA ERICSSON 604/263-4155	03/13/97	1396	R	TESTS AND APPROVAL FORM FHWA WAS NOT AVAILABLE. AWKWARD TO HANDLE, AND EXPENSIVE.
00940.00	CHEVRON, LED ENHANCED	INTERPLEX SOLAR CHEVRON	INTERPLEX SOLAR, INC. ROBERT NELLEMAN 708/396-1976	10/14/93	967	R	SOLAR POWERED UNIT THAT OUT- LINES LEGENDS IN A CHEVRON. FHWA WILL ONLY ALLOW EXPERI- MENTALLY. ODOT WILL NOT PURSUE
00990.43	TRAFFIC LOOP SEALANTS ASPHALTIC	SEALEX	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572 WHITE CAP 503/287-4151	05/01/88	648	R	COLD APPLIED ASPHALTIC. REJECT DUE TO LACK OF PERFORMANCE. VERY SOFT WHEN SET. SPECS REQ 6 MO WARR. PAST JOB ACCEPT.
00990.43	TRAFFIC LOOP SEALANTS HOT MELT ASPHALT	MAX KUTTER #3	DISTRIBUTED BY BREWER COTE AT 602/931-3728 THEN MAX CUTTER: RALPH FERGUSON 818/994-0953	02/10/00	961	R	SELF LEVELING. HOT MELT RUBBER VACUUM CLEAN AND DRY. MIN PVMT TEMP 4.4 DEGREES C. CRAFCO TOOK OVER 1/15/00 SEE P #143.
00990.43	TRAFFIC LOOP SEALANTS NITRILE RUBBER	PERMANENT SEALER 983	W.J. RUSCOE 216/253-8148 DIST: ROSENBLATT 704/525-1852 VENDOR: NW SIGNAL SUPPLY JEFF WOLF 503/635-4351	06/10/93	439	R	NITRILE RUBBER. MFG DOESN'T RECOMMEND USE AS SEALANT NOW. ORIG 'C' 7/89. SPECS REQ 6 MO. WARRANTY PAST JOB ACCEPTANCE.
00990.43	TRAFFIC LOOP SEALANTS POLYURETHANE	BONDO 575	DYNATRON BONDO CORPORATION 404/696-2730	11/13/97	1637	R	CURE TIME WAS EXCESSIVE.
00990.43	TRAFFIC LOOP SEALANTS URETHANE PRE-POLYMER	3-M LOOP SEALANT BLACK 5000	3-M COMPANY 800/362-3455 REP: ALLAN HOLLEN 800/690-4287 ADVANCED TRAFFIC PRODUCTS, INC	09/12/96	1191	R	THIS IS A URETHANE PRE- POLYMER. IMMEDIATE TRAFFIC IF INSTALLED RIGHT. AC/PCC COM- PATIBLE. PROBLEMS W/CURING.
00990.46	FIRE PRE-EMPT DEVICE	SDS 1000	SOUND DISCRIMINATION SYSTEMS 11207 NORTH 39 THE ST. PHOENIX, AZ 85028 602/996-1500	02/14/91	513	R	THIS IS SIREN ACTIVATED, WE USE A STROBE LIGHT TYPE, WHICH IS NOT COMPATIBLE WITH A SIREN TYPE.

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02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS	EUCO DAMIT	EUCLID CHEMICAL, 800/321-7828 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1238	R	THIS IS A WATER STOP.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS	EUCO FIRMIX MORTAR	EUCLID CHEMICAL, 800/321-7628 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1242	R	THIS HAS IRON BORINGS IN IT.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS	EUCO SPEED	EUCLID CHEMICAL, 800/321-7628 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/14/99	1236	R	DEVELOPS FINAL SET IN 18 MIN. OUR GUIDELINES ARE WORKING TIMES OF 20 TO 30 MINUTES.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS	EUCOPATCH	EUCLID CHEMICAL, 800/321-7628 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1240	R	DID NOT MEET OUR COMPRESSIVE STRENGTH AND WORKING TIME REQUIREMENTS. IT PROMISES 2000 PSI IN 1 DAY.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS	PAVECRETE	TRUMAN SANFORD CO 214/288-7546 4217 FORNEY RD MESQUITE, TX 75149 FRANK TREML 503/364-4189	01/14/93	355	R	WAS 'Q' IN 7/86. DISTRIBUTOR SAYS BROCHURES NOT ACCURATE. PRODUCT SHOULD ONLY BE USED FOR FINISH WORK 3MM OR LESS.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS	TOPPIT	MAYA MAGSTONE 2452 SOUTH STATE ST. SUITE #1 SALT LAKE CITY, UT 84115 BOYD CLAUSON 800/447-8147	09/12/91	748	R	THIS PRODUCT USES MAGNESIUM CHLORIDE, WHICH CAN ACCELERATE REBAR CORROSION. MINERAL CEMENT-NOT PORTLAND.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS, MODIFIED	BURKE ACRYLIC PATCH	WHITE CAP 503/287-4151	07/14/92	418	R	DID NOT MEET OUR PCC PATCHING SPECIFICATIONS. (COMPRESSIVE STRENGTH)
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS, MODIFIED	POWERMIX SCREED	CONCRETE RESTORATION, STO DIV. STEVE OSTERMANN 800/542-3052 REP: DON STAEHLER 800/888-3379 KODIAK SUPPLY 800/332-7452	09/10/92	815	R	CEMENTITIOUS POLYMER MODIFIED PATCHING MATERIAL. IT FAILS OUR COMPRESSIVE STRENGTH REQUIREMENT.
02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS, MODIFIED	RENDEROC HB2	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	12/11/97	1581	R	COMPRESSIVE STRENGTH TOO LOW. FOOT AND VEHICLE TRAFFIC LIMITATIONS.

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02010.10	PCC PATCHING, RAPID SET CEMENTITIOUS, MODIFIED	POWERMIX LEVELER	CONCRETE RESTORATION, STO DIV. STEVE OSTERMANN 800/542-3052 REP: DON STAEHLER 800/888-3379 KODIAK SUPPLY 800/332-7452	09/10/92	814	R	CEMENTITIOUS POLYMER MODIFIED PATCHING MATERIAL. IT FAILS OUR COMPRESSIVE STRENGTH REQUIREMENT.
02010.10	PCC PATCHING, RAPID SET EPOXY	EUCO 700	EUCLID CHEMICAL, 800/321-7628 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1225	R	DID NOT MEET OUR COMPRESSIVE REQUIREMENTS. IT IS AN EPOXY
02010.10	PCC PATCHING, RAPID SET EPOXY	MASTERTOP MP WAS CONCRETSIVE 1470	MASTER BUILDERS 800/227-3350	05/01/88	27	R	REJECTED ON BASIS OF STRENGTH GAIN; OSHD REQUIRES 20.7 MPA IN 3 HRS. REJECTED PRIOR TO 5/88.
02010.10	PCC PATCHING, RAPID SET EPOXY-URETHANE	PENETRON R/M 3003	ACCELERATED SYSTEMS TECHNOLOGY JOE HAYDU 909/781-4990 VEN:MASONS SUPPLY 800/537-3407	12/12/91	772	R	MINUS 31 TO 65 DEGREE C TEMP RANGE. SETS IN 45 MINUTES. TEST SAMPLES YELLOWED AND GOT VERY HARD.
02010.10	PCC PATCHING, RAPID SET URETHANE	PERCOL ELASTIC CEMENT	PERCOL POLYMERICS, INC. RANSOM WYMAN 714/979-5555 KC SULLIVAN 206/621-9300	10/08/92	899	R	IT ONLY HAS 5.5 MPA IN 28 DAYS (COMPRESSIVE STRENGTH)
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS	DURATOP GEL	TAMMS INDUSTRIES, 800/218-2667 REP: DAVE DILLON 425/820-4576	11/10/99	1945	R	FAILED LENGTH CHANGE TEST.
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS	EUCO FINISH COAT	EUCLID CHEMICAL, 800/321-7828 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1231	R	THICKNESS LIMITED TO 1.6MM. TO THIN FOR OUR APPS. CEMENTITIOUS.
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS	RECRETE 20 MINUTE SET WAS CONCRETE 20 MINUTE SET	DAYTON SUPERIOR 800/745-3707 PAUL LAYMAN 800/745-3705 MASONS SUPPLY 800/537-3407	12/14/95	601	R	MFG SAYS IT IS BEST FOR PATCH FOR PRECAST PIPE. THEY HAD TROUBLE GETTING US TEST RESULTS
02010.10	PCC PATCHING, VERTICAL CEMENTITIOUS	RECRETE 5 MINUTE SET WAS CONCRETE 5 MINUTE SET	DAYTON SUPERIOR 800/745-3707 PAUL LAYMAN 800/745-3705 MASONS SUPPLY 800/537-3407 WHITE CAP 503/287-4151	09/10/92	663	R	SET TIME TOO FAST (5 MINUTES)

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02010.10	PCC PATCHING, VERTICAL EPOXY	SPEC BOND 200	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	991	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02010.10	PCC PATCHING, VERTICAL EPOXY	SPEC BOND 201	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	992	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02010.10	PCC PATCHING, VERTICAL EPOXY-URETHANE	PENETRON N/S 3009	ACCELERATED SYSTEMS TECHNOLOGY JOE HAYDU 909/781-4990 VEN:MASONS SUPPLY 800/537-3407 JILL MEYERHOFF 503/585-5504	07/09/92	773	R	DOES NOT MEET OUR SPECS FOR PCC PATCHING. SET TIME IS ONLY 5 MINUTES. IT IS VERY FLEXABLE THOUGH.
02010.20	PCC PATCHING EPOXY	POLOPLATE 100 PSFC	REVOLAN SYSTEMS 408/288-8655	01/09/97	916	R	MFG FAILED TO SEND TEST RESULTS.
02010.20	PCC PATCHING EPOXY	REVOPLATE RP-10 CS	REVOLAN SYSTEMS 408/288-8655	01/09/97	919	R	MFG FAILED TO SEND TEST RESULTS.
02010.20	THIN OVERLAY FOR PCC, CEMENTITIOUS	EMACO 415	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101	03/11/93	949	R	THE QUICKNESS OF SET IS A PROBLEM FOR USE WITH THIS CATEGORY. THERE IS HOT WEATHER VERSION, NOT YET REVIEWED.
02010.20	THIN OVERLAY FOR PCC, CEMENTITIOUS	GEOBOND GEOCEMENT	GEOBOND INTERNATIONAL SUSAN MICHALSKI 816/363-6800 SIMON & ASSOC 541/672-2377	09/09/99	1894	R	THE MANUFACTURER DOES NOT HAVE ENOUGH EXPERIENCE WITH THIN OVERLAYS ON BRIDGE DECKS.
02010.20	THIN OVERLAY FOR PCC, CEMENTITIOUS, MODIFIED	GEMCRETE	GEMITE UNIQUE PRODUCTS INC. 328 CARLINGVIEW DRIVE REXDALE,ONTARIO M9W 5G5 CANADA 416/675-1000	02/20/87	12	R	THIS IS A FIBER REINFORCED MORTAR. VENDOR FAILED TO SUPPLY REQUESTED INFO. ON SKID RESISTANCE.
02010.20	THIN OVERLAY FOR PCC, EPOXY	NITOBOND 881-31C	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	07/08/93	1043	R	EPOXY THIN OVERLAY FOR PCC. MANUFACT. REP CONCURS THAT IT DOES NOT HAVE GOOD FELXIBILITY

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02010.20	THIN OVERLAY FOR PCC, EPOXY	POLOPLATE 100 CS	REVOLAN SYSTEMS 408/288-8655	01/09/97	917	R	MFG FAILED TO SEND TEST RESULTS.
02010.20	THIN OVERLAY FOR PCC, EPOXY	POLOPLATE 100 PSPC	REVOLAN SYSTEMS 408/288-8655	01/09/97	916	R	MFG FAILED TO SEND TEST RESULTS.
02010.20	THIN OVERLAY FOR PCC, EPOXY	REVOPLATE RSU-5	REVOLAN SYSTEMS 408/288-8655	01/09/97	918	R	MFG FAILED TO SEND TEST RESULTS.
02010.20	THIN OVERLAY FOR PCC, EPOXY	SIKADUR 21 LV, LO MOD EPOXY	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	04/09/92	828	R	LOW VISCOSITY EPOXY RESIN BINDER. MANU. CLAIMED IT MEETS SPECS. DATA REVIEW SHOWED IT DID NOT.
02010.20	THIN OVERLAY FOR PCC, EPOXY	SIKADUR 22 LO MOD EPOXY	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800-806-7952 WHITE CAP 503/287-4151	04/09/92	830	R	A MEDIUM VISCOSITY, EPOXY ADHESIVE BINDER. DOES NOT MEET ASTM C 881-90.
02040.00	ADMIXTURE, CONCRETE, MISC SEALER	EVERDURE CALTITE	CEMENTAIDS LTD. 10495 KEELE ST. MAPLE, ONTARIO, CANADA L6A 1R7 416/832-4161	08/08/91	431	R	USING THE CONC SEALER CRITERIA THIS PRODUCT HAS NOT MET OUR REQUIREMENTS.
02040.10	ADMIXTURE, CONCRETE, MISC SHRINKAGE COPMENSATOR	ECLIPES	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	10/14/99	1716	R	MFTR RECOMMENDED REMOVAL OF PRODUCT FROM QPL, UNTIL FREEZE FREEZE-THAW PROBLEMS RESOLVED. ORIG REJECTED IN 12/98.
02040.10	TYPE A ADMIXTURE WATER REDUCER	DARACEM 50	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	08/08/96	1531	R	DOES NOT MEET AASHTO M194. EXCEEDS CHLORIDE CONTENT.
02040.10	TYPE C ADMIXTURE SET ACCELERATOR	GILCO ACCELERATOR	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	02/13/97	1535	R	MANUFACTURER FAILED TO SHOW COMPLIANCE WITH ASSHTO M194

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02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	DARACEM ML330	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	12/12/96	1533	R	TEST RESULTS SUBMITTED DID NOT MEET OUR SPECIFICATIONS.
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	DARACEM ML500	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	12/12/96	1534	R	TEST RESULTS SUBMITTED DID NOT MEET OUR SPECIFICATIONS.
02040.10	TYPE F ADMIXTURE HIGH RANGE WATER REDUCER SUPER-PLASTICIZER	SUPERSLUMP	METALCRETE INDUSTRIES 206/284-5860	06/10/93	867	R	MFG FAILED TO RESPOND TO OUR REQUEST FOR COMPLIANCE TO ASTM C-494.
02050.10	CURING COMPOUND, CONCRETE	DIAMOND CLEAR VOX VOC'S = 159G/L	EUCLID CHEMICAL COMPANY 800/321-7628 OR 216/531-9222 WILLIAMS FORM 503/286-3647	07/10/97	1642	R	FAILED TO MEET OUR SPECS. CLEAR, WATER BASED.
02050.10	CURING COMPOUND, CONCRETE	SEALTIGHT CS-309 VOC'S = 756G/L	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572	05/08/97	1539	R	REJECTED FOR PORTLAND METRO AREA - VOCS TOO HIGH. OK FOR THE REST OF OREGON UNTIL 1/98.
02050.10	CURING COMPOUND, CONCRETE VOC'S = 0 G/L	AQURON CPT 2000	AQURON CORP 972-412-4649 MASONS SUPPLY 800/537-3407	10/14/99	1638	R	FAILED ODOT MATERIALS LAB TESTING 99-4956 AND 99-4659. TRIED AT THICKEST RATE, TRIED AFTER WAITING FOR IT TO SOAK
02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A	KURE-N-SEAL 800	CHEMREX - SONNEBORN DICK HURLEY 360/896-4322	04/09/92	659	R	SUITED FOR INTERIOR FLOORING. NOT OUR APPLICATIONS. CLEAR RESIN. WAS SONNEBORN BLDG. PRODUCTS.
02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A & B	KURE-N-SEAL VOC'S = 691G/L	CHEMREX - SONNEOBRN DICK HURLEY 360/896-4322	01/09/97	126	R	REJECTED FOR PORTLAND METRO AREA - VOCS TOO HIGH. OK FOR THE REST OF OREGON UNTIL 1/98. CLEAR RESIN.
02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A & B	MASCOCURE ALL RESIN CURE VOC = 679 G/L	SYMONS CORP 303/287-7531 DARRYL ANDERSON 800/800-7628 TECH: JERRY FORD 847/298-3200 MASONS SUPPLY 800/537-3407	08/12/99	592	R	CLEAR RESIN - VOC'S TOO HIGH TO MEET THE EPA REQUIREMENTS.

LIST PUBLISHED BY ODOT MATERIALS LAB; 800 AIRPORT RD SE; SALEM, OR 97301-4798;(503)986-3059. CALL IF YOU HAVE ANY QUESTIONS ABOUT THESE PRODUCTS.

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02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A & B	RESI-CHEM CLEAR CURE VOC = 73 G/L	SYMONS CORP 303/287-7531 DARRYL ANDERSON 800/800-7628 TECH: JERRY FORD 847/298-3200 MASONS SUPPLY 800/537-3407	07/09/92	699	R	WHEN TESTED IN OUR LAB, IT FAILED TM 721. CLEAR, RESIN BASED COMPOUND.
02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A & B	SEAL-N-KURE	METALCRETE INDUSTRIES 206/284-5860	06/10/93	864	R	CLEAR, 10% ACRYLIC RESIN. MFG FAILED TO RESPOND TO OUR REQUEST FOR TEST RESULTS.
02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A & B	SEAL-N-KURE 0800	METALCRETE INDUSTRIES 206/284-5860	06/10/93	865	R	CLEAR, 18% ACRYLIC RESIN. MFG FAILED TO RESPOND TO OUR REQUEST FOR TEST RESULTS.
02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A & B	SEAL-N-KURE 30	METALCRETE INDUSTRIES 206/284-5860	06/10/93	866	R	CLEAR, 30% ACRYLIC RESIN. MFG FAILED TO RESPOND TO OUR REQUEST FOR TEST RESULTS.
02050.10	CURING COMPOUND, CONCRETE TYPE 1 OR 1D, CLASS A & B	SEALTIGHT 3100 CLEAR FORMERLY AR 30 VOC'S = 709G/L	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572	07/13/96	329	R	DOES NOT MEET NEW VOC REQUIREMENTS. CAN NOT BE USED IN PORTLAND METRO AREA. REST OF OREGON OK UNTIL 1/1/98.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A	PROMULSION LB-2 FORMERLY PROTEX PW-3B	MASTER BUILDERS 800/227-3350 WHITE CAP 503/287-4151	07/13/00	768	R	MFG DID NOT RESPOND WITH VOC INFORMATION.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A	SEALTIGHT 1600 WHITE OREGON	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569 SCHARPF'S 800/378-3572	08/13/92	777	R	ORIG QUAL(5/88), BUT HAS FAILED MULTIPLE TESTS. LAB# 92-6606, 92-7083, 92-7180 92-7855, 92-8232. WHITE WAX.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A & B	DAY CHEM WHITE PIGMENTED CURE J-10 VOC'S = 452G/L	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASON'S SUPPLY, 800/537-3407 WHITE CAP 503/287-4151	05/08/97	670	R	REJECTED FOR PORTLAND METRO AREA - VOC'S TOO HIGH. OK FOR THE REST OF OREGON UNTIL 1/98. WHITE RESIN.
02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A & B	RESI-CHEM HIGH CURE VOC = 78 G/L	SYMONS CORPORATION DARRYL ANDERSON 800/800-7628 TECH: JERRY FORD 847/298-3200 MASONS SUPPLY 800/537-3407	07/09/92	700	R	WHEN TESTED IN OUR LAB, IT FAILED TM 721. WHITE PIGMENTED. RESIN BASED COMPOUND.

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02050.10	CURING COMPOUND, CONCRETE TYPE 2, CLASS A & B VOC'S=	CERTI-VEX ENVIRO CURE WHITE	VEXCON CHEMICALS 215/332-7700	11/13/97	1688	R	HYDRO CARBON BASED RESIN. FAILED ODOT LAB TEST 97-4999. RESULT: 1.07 KG/M2.
02050.20	CURING COMPOUND, CONCRETE TYPE 1D	SYMONS CURE & HARD VOC'S = 0.0G/L	SYMONS CORP 303/287-7531 DARRYL ANDERSON 800/800-7682 MASON'S SUPPLY 800/537-3407 TECH: JERRY FORD 847/298-3200	03/09/95	1292	R	FAILED NUMEROUS LAB TESTS: 94-12224 94-12243 SODIUM SILICATE.
02050.20	CURING MATERIAL, CONCRETE	TRANSGUARD 4000 CONCRETE CURING BLANKET	REEF INDUSTRIES P.O. BOX 33248 HOUSTON, TX 77233 800/231-2077	10/01/89	162	R	DOES NOT ALLOW THE ADDITION OF WATER TO THE CURING AREA
02060.00	CONCRETE SEALER EPOXY	REVOPLATE RSU-5	REVOLAN SYSTEMS 408/288-8655	01/09/97	918	R	MFG FAILED TO SEND TEST RESULTS.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	CHEMTRETE BSM-20	DYNAMIT NOBEL OF AMERICA INC. REP: BILL EVERETT 800/631-1668 VEN: ATLAS SUPPLY 800/806-7952	03/09/95	279	R	DOESN'T MEET OUR REQUIREMENTS. IT IS 20% SILANE.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	CONCRETE & MASONRY SEALER 1000	3-M COMPANY 800/362-3455 REP: STEVE WHARTON 206/878-8398	05/09/91	557	R	REJECTED BY BRIDGE SECTION HAS NOT MET ALBERTA AND FLORIDA DOT CRITERIA SILOXANE BASE
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	CONCRETE & MASONRY SEALER 2000	3-M COMPANY 800/362-3455 REP: STEVE WHARTON 206/878-8398	05/09/91	558	R	REJECTED BY BRIDGE SECTION HAS NOT MET ALBERTA AND FLORIDA DOT CRITERIA SILOXANE BASE
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	KURE-N-SEAL 800	CHEMREX - SONNEBORN DICK HURLEY 360/896-4322	04/09/92	659	R	NOT USED BY EITHER ALBERTA DOT OR FLORIDA DOT. MUST BE ON THEIR LISTS. WAS SONNEBORN BLDG PRODUCTS.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	MASTERSEAL GP	CHEMREX 800/243-6739 BRUCE JACKSON 503/722-4101 MASON'S SUPPLY 800/537-3407 WHITE CAP 800/452-2994	09/12/91	32	R	REJECTED BY BRIDGE SECTION HAS NOT MET ALBERTA AND FLORIDA DOT CRITERIA. EPOXY

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02060.00	CONCRETE SEALER, CHLORIDE BARRIER	PEN 18-40	POLYMER TECHNOLOGY GROUP JOE ELAM 614/457-5641 CINCINNATI, OHIO 73112	10/03/90	2080	R	REJECTED BY BRIDGE SECTION HAS NOT MET ALBERTA AND FLORIDA DOT CRITERIA
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	PERMAGILE PENETRATING EPOXY SEALER	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 WHITE CAP 503/287-4151	05/09/91	672	R	REJECTED BY BRIDGE SECTION HAS NOT MET ALBERTA AND FLORIDA DOT CRITERIA EPOXY BASE
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SIKAGARD 70	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	05/09/91	508	R	PASSED THE ALBERTA TEST BUT NOT THE FLORIDA DOT CRITERIA
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SIKATOP 144	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	04/09/92	549	R	NOT USED BY EITHER ALBERTA OR FLORIDA DOT'S.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SIL-ACT 22	ADVANCED CHEMICAL TECHNOLOGIES 2601 EXPRESSWAY OKLAHOMA CITY, OK 73112 405/873-2585	06/23/88	19	R	REJECTED BY BRIDGE SECTION DOESN'T PASS ALBERTA OR FLORIDA DOT CRITERIA. SILANE, 20% SOLIDS.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SIL-ACT MULTIGARD	ADVANCED CHEMICAL TECHNOLOGIES 2601 NW EXPRESSWAY OKLAHOMA CITY, OK 73112 405/873-2585	12/09/93	1070	R	SILANE SEALER WITH 14% SOLIDS. ON FLORIDA LIST BUT NOT ON THE ALBERTA LIST. WE REQUIRE IT ON BOTH TO BE QUAL.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SILANE 20	SYMONS CORP 303/287-7531 DARRYL ANDERSON 800/800-7628 JERRY FORD 847/298-3200 MASONS SUPPLY 800/537-3407	08/10/00	1714	R	LOOKS NEAT, BUT WITH THE OPEN CELL STRUCTURE IT PASSES WATER SO IT DOES NOT DO WHAT WE WANT IT TO DO.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SINAK S-102	SINAK CORPORATION 619/231-1771 DUTCH THUMB WATERPROOFING INC. 503/873-3550	12/01/88	51	R	USED ON ASTORIA & "D" RIVER BRIDGES. DOES NOT PASS ALBERTA OR FLORIDA'S TESTS.
02060.00	CONCRETE SEALER, CHLORIDE BARRIER	SURE-COAT TROJAN MASONRY SEALR MASONRY SEALER	ENVIROSAFE MANUFACTURING CORP. 504/626-9053 TOM SHEA 503/760-6433	09/14/95	1385	R	THIS PRODUCT HAS NOT PASSED IN FLORIDA AND ALBERTA.

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02060.00	CONCRETE SEALER, CHLORIDE BARRIER	WEATHER WORKER S-40 (J-29)	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASON'S SUPPLY, 800/537-3407 WHITE CAP 503/287-4151	12/11/97	1374	R	VOC'S TOO HIGH.
02060.00	CRACK SEALER-EPOXY	REVOPLATE RSU-5	REVOLAN SYSTEMS 408/288-8655	01/09/97	918	R	MFG FAILED TO SEND TEST RESULTS.
02060.00	CRACK SEALER-METHACRYLATE	REVOLAN RPM-2000W	REVOLAN SYSTEMS 408/288-8655 SAN JOSE CA 95158 408/288-8658	09/14/95	163	R	PRODUCT HAS BEEN USED ON SEVERAL BRIDGES IN OREGON, MFG HAS DISCONTINUED PRODUCT, SHELF LIFE HAS EXPIRED.
02060.00	EPOXY CRACK INJECTION	FAST PATCH 928	BURKE COMPANY 800/456-7445 WHITE CAP 503/287-4151	05/09/91	53	R	WAS CONDITIONAL. NOT AN EPOXY AND WILL NEVER BE USED TO INJECT CRACKS.
02060.00	EPOXY CRACK INJECTION	HI-TECH STRUCTURAL GEL STD SET EPOXY	UNITEX, KANSAS CITY, MO 64120 JERRY BYRNE, 816/231-7700 HI-TECH EPOXY SYSTEMS 503/650-4342	03/11/99	1827	R	PRODUCT IS SAME AS UNITEX PROPOXY 300, & IS REJECTED THIS DOES NOT MEET OUR NEED FOR 34 MPA TENSILE STRENGTH.
02060.00	EPOXY CRACK INJECTION	MICROCAPSULE ENGINEERING SYSTEM	MICROCAPSULE ENGINEERING OREGON JAPAN DEVELOPMENT 320 SW STARK SUITE 600 PORTLAND OR 97204	05/01/88	269	R	REJECTED UNTIL CONCERNS ARE ANSWERED ALONG WITH ASTM C881 TEST RESULTS.
02060.00	EPOXY CRACK INJECTION	PENETRON M/V 4030	ACCELERATED SYSTEMS TECHNOLOGY JOE HAYDU 909/781-4990 MASONS SUPPLY 800/537-3407	09/10/92	775	R	EPOXY-URETHANE SYSTEM. WE REQUIRE ASTM C 881, TYPE 1. THIS PRODUCT DOES NOT MEET THIS.
02060.00	EPOXY CRACK INJECTION	PERMAGILE PG 1-215 HM LV	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 WHITE CAP 503/287-4151	08/08/91	673	R	SUBMITTALS INDICATE THAT IT FAILS TO MEET TYPE 1 REQUIRE- MENTS OF ASTM C 881.
02060.00	EPOXY CRACK INJECTION	PRO-POXY 300	UNITEX, KANSAS CITY, MO 64120 JOHN GRISSINGER 800/821-5846 MASONS SUPPLY CO. 800/537-3407	03/12/98	854	R	THIS DOES NOT MEET OUR NEED FOR 34 MPA TENSILE STRENGTH. ALSO WAS TOO "THICK" FOR EFFECTIVE USE.

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02060.00	EPOXY CRACK INJECTION	PRO-POXY 50	UNITEX, KANSAS CITY, MO 64120 JOHN GRISSINGER 800/821-5846 MASONS SUPPLY CO. 800/537-3407	05/13/93	1027	R	THE MANUFACTURER ADMITS THAT THE PRODUCT DOES NOT MEET THE CURRENT VERSION OF ASTM C 881. HE PULLED IT FROM THE REVIEW.
02060.00	EPOXY CRACK INJECTION	SIKADUR 32 HI MOD	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	06/13/91	505	R	THE DATA SUPPLIED INDICATES THAT THE PRODUCT FAILED TO MEET ASTM C 881 FOR HARD CONC TO HARD CONC (GRADE 1).
02060.00	EPOXY CRACK INJECTION	SPEC BOND 100	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	989	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02060.00	EPOXY CRACK INJECTION	SPEC BOND 50	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	988	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02060.00	EPOXY SEALER	EVA-POX #9 ALL PURPOSE COATING	E-POXY ENGINEERED MATERIALS LUISA FLORES 888/999-2463 MASONS SUPPLY 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/09/91	552	R	FORMS A VAPOR BARRIER. CAN PRODUCE OXYGEN CONCENTRATION CELLS WITH A POTENTIAL FOR AGGRESSIVE CORROSION OF REBAR.
02060.00	EPOXY SEALER	EVA-POX PENETRATING CURING COMPOUND #14	E-POXY ENGINEERED MATERIALS LUISA FLORES 888/999-2463 MASONS SUPPLY 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/01/88	46	R	30% EPOXY SOLID SOLUTION FLAMMABLE-FLASH POINT IS 32 DEG. C.
02060.00	EPOXY SEALER	HI-TECH STRUCTURAL GEL STD SET EPOXY	UNITEX, KANSAS CITY, MO 64120 JERRY BYRNE, 816/231-7700 HI-TECH EPOXY SYSTEMS 503/650-4342	03/11/99	1827	R	PRODUCT IS SAME AS UNITEX PROPOXY 300, & IS REJECTED THIS PRODUCT DOES NOT MEET THE 5000 PSI TEST REQUIREMENT
02060.00	EPOXY SEALER	KROSSKOTE 123	KROSSKOTE INC. 908/359-1367 146 FLANDERS DR, HILLSBOROUGH, NJ 08876-4656 DR. THOMAS KENYHERCZ	10/10/91	752	R	FORMS A VAPOR BARRIER, CAN PRODUCE OXYGEN CONCENTRATION CELLS WITH A POTENTIAL FOR AGGRESSIVE CORROSION OF REBAR.
02060.00	EPOXY SEALER	PRO-POXY 300	UNITEX, KANSAS CITY, MO 64120 JOHN GRISSINGER 800/821-5846 MASONS SUPPLY CO. 800/537-3407	03/12/98	854	R	THIS PRODUCT DOES NOT MEET THE 5000 PSI TEST REQUIREMENT.

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02060.00	EPOXY SEALER	RESCON R-117 (WAS RESCON, AND NIKELPOXY)	SYMONS CORPORATION DARRYL ANDERSON 800/800-7628 TECH: JERRY FORD 847/298-3200 MASON'S SUPPLY 800/537-3407	08/10/00	2087	R	DISCONTINUED BECAUSE OF VOC CONCERNS.
02060.00	EPOXY SEALER	SIKAGARD 61	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	05/09/91	512	R	FORMS A VAPOR BARRIER, CAN PRODUCE OXYGEN CONCENTRATION CELLS WITH A POTENTIAL FOR AGGRESSIVE CORROSION OF REBAR.
02070.10	BONDING AGENT, EPOXY	ARMATEC 110	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	04/09/92	736	R	WATER BASED EPOXY. NOT CONVINCED OF PERFORMANCE. MAY NOT REACT AS A REGULAR EPOXY.
02070.10	BONDING AGENT, EPOXY	EMBEGARD GP	MASTER BUILDERS 800/227-3350 WHITE CAP 503/287-4151	05/01/88	713	R	COLD WEATHER BONDING AGENT MIGHT WORK AS ALTERNATIVE TO CONCRETE 1001 LPL WAS CONCRETE 1170.
02070.10	BONDING AGENT, EPOXY	EVA POX ALLPURPOSE COATING #9	E-POXY ENGINEERED MATERIALS LUISA FLORES 888/999-2463 MASON'S SUPPLY 800/537-3407 WILLIAMS CONCRETE 503/286-3647	05/09/91	552	R	FORMERLY LISTED AS PRODUCT NUMBER 44.
02070.10	BONDING AGENT, EPOXY	MASCOBOND LO-MOD	MASON'S SUPPLY COMPANY 800/537-3407	09/09/93	897	R	CONFORMS TO OLD AASHTO STAND., BUT NOT NECESSARILY TO NEW (M235-86 VS. M235-91I). WE ARE DE-EMPHASIZING BONDING AGENTS.
02070.10	BONDING AGENT, EPOXY	PERMAGILE 1-215 HM	PERMAGILE INDUSTRIES TED POPPE 800/645-7546 REP: DAVE CORBETT 253/838-4407 WHITE CAP 503/287-4151	05/01/88	101	R	REP REQUESTED REMOVAL FROM COND USE LIST, PROBABLY WILL NEVER BE USED IN OREGON.
02070.10	BONDING AGENT, EPOXY	POWERPREP AC	CONCRETE RESTORATION, STO DIV. STEVE OSTERMANN 800/542-3052 REP: DON STAEHLER 800/888-3379 KODIAK SUPPLY 800/332-7452	04/09/92	732	R	IT'S A WATER BASED EPOXY. NOT CONVINCED OF PERFORMANCE. MAY NOT PERFORM AS ONE MIGHT EXPECT OF AN EPOXY.
02070.10	BONDING AGENT, EPOXY	SEALTIGHT REZIWELED LV EPOXY	W.R. MEADOWS 800/342-5976 JIM SULLIVAN 800/439-6569	01/10/02	579	R	MFG SAYS THIS IS TOO THIN FOR THIS APPLICATION.

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02070.10	BONDING AGENT, EPOXY	SPEC BOND 100	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	989	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02070.10	BONDING AGENT, EPOXY	SPEC BOND 150	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	990	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02070.10	BONDING AGENT, EPOXY	SPEC BOND 200	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	991	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02070.10	BONDING AGENT, EPOXY	SPEC BOND 50	CONSPEC MARKETING AND MANUFACTURING COMPANY, INC. ED WOOD 800/348-7351	04/08/93	988	R	WHEN ASKED FOR TEST RESULTS THE MFG ELECTED NOT TO HAVE THE PRODUCT REVIEWED.
02070.10	BONDING AGENT, EPOXY	THOROC EPOXY ADHESIVE 24LPL WAS NITOBOND GEL 400C	CHEMREX 800/327-1570 BRUCE JACKSON 503/722-4101 MASONS SUPPLY 800/537-3407	05/08/97	1601	R	2 COMPONENT 100% SOLIDS EPOXY. DOES NOT MEET VISCOSITY REQ. GRADE 2. HAS 24 HR "OPEN" TIME TYPE II, GRADE 2, CLASS C.
02070.20	BONDING AGENT, NON-EPOXY	DARA WELD C	W.R. GRACE & CO. 800/753-9622 JEFF MARTY 503/803-2281	05/09/91	722	R	POLYVINYLACETATE COPOLYMER. APPEARS TO BE RE-EMULSIFIABLE.
02070.20	BONDING AGENT, NON-EPOXY	SIKALATEX	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	04/11/91	509	R	SIKA SUBMITTED TESTS FOR AN EPOXY BASED SYSTEM WHICH SEEMS INAPPROPRIATE FOR A NON-EPOXY SYSTEM.
02070.20	BONDING AGENT, NON-EPOXY	SUPERIOR CONCRETE BONDER J-41	DAYTON SUPERIOR 800/745-3707 REP: PAUL LAYMAN 800/745-3705 MASONS SUPPLY, 800/537-3407 WHITE CAP 503/287-4151	02/14/91	622	R	RE-EMULSIFIABLE BONDING AGENT. UNSATISFACTORY HISTORY. POSSIBLY RE-EMULSIFIABLE YEARS LATER.
02070.20	BONDING AGENT, NON-EPOXY	WELDCRETE	LARSON PRODUCTS 800/633-6668 ROSE CITY PROD 503/761-6556	01/13/00	2150	R	TESTING SUBMITTED FOR ASTM C1059 (TYPE I), BUT TYPE II (NON-REDISPERSABLE) TESTING IS REQUIRED.

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02080.10	GROUT, EPOXY	CEILCOTE 648 CP GROUT	MASTER BUILDERS 800/227-3350	06/13/91	671	R	THIS GROUT IS NOT MOISTURE INSENSITIVE.
02080.10	GROUT, EPOXY	CONCRETSIVE 1539-G	MASTER BUILDERS 800/227-3350	05/01/88	24	R	REJECTED ON BASIS OF THERMAL INCOMPAT W/ CONCRETE. PRODUCT IS ALSO A 3-COMPONENT; SPECS CALL FOR 2-COMPONENT EPOXIES.
02080.10	GROUT, EPOXY	EPOXY GROUT	MINWAX CO. 415/964-9676, CA. MINWAX CO. 201/391-0253, NJ. VALLEY CONTRACTORS SUPPLY KATHEE FRITZ 503/344-5677, OR.	06/13/91	598	R	TEMP REQUIREMENTS TOO HIGH. PRODUCT IS NOT MOISTURE INSENSITIVE. IT IS NOT PRACTICAL FOR USE IN OREGON.
02080.10	GROUT, EPOXY	KMENT ANCHORING CEMENT	EUCLID CHEMICAL, 800/321-7628 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1228	R	QUICK SETTING HYDRAULIC CEMENT CONTAINS GYPSUM. IT IS NOT RECOMMENDED FOR EXTERIOR APPS.
02080.20	GROUT, NON-EPOXY	EMBECO 885 GROUT	MASTER BUILDERS 800/227-3350	05/09/91	651	R	WE DO NOT USE METALLIC GROUTS.
02080.20	GROUT, NON-EPOXY	EUCO NS GROUT	EUCLID CHEMICAL, 800/321-7828 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1233	R	CEMENTITIOUS BASED, BUT HAS IRON BORINGS IN IT.
02080.20	GROUT, NON-EPOXY	HI FLOW METALLIC GROUT	EUCLID CHEMICAL, 800/321-7628 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	10/13/94	1234	R	CONTAINS METALLIC AGGREGATES.
02080.20	GROUT, NON-EPOXY	POWERMIX ELITE FINE MORTAR	CONCRETE RESTORATION, STO DIV. STEVE OSTERMANN 800/542-3052 REP: DON STAEHLER 800/888-3379 KODIAK SUPPLY 800/332-7452	12/10/92	915	R	THIS IS A CEMENTITIOUS MIX. IT IS LIMITED TO AT LEAST 3MM. MIN AND A MAX OF 6.4MM(THICK). REJECTED BECAUSE OF LIMITS.
02080.20	GROUT, NON-EPOXY	RAPID SET 3/8" CONCRETE MIX	CTS CEMENT MFG. COMPANY REP: CHUCK VETSCH 253/815/1697 ATLAS SUPPLY 800/806-7952 KODIAK SUPPLY 800/332-7452	11/04/93	941	R	25% CEMENT, PEA GRAVEL & SAND. MANUFACTURER DISCOURAGED USE AS A GROUT.

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02080.30	GROUT, KEYWAY	EMBECO 885 GROUT	MASTER BUILDERS 800/227-3350	05/09/91	651	R	WE DO NOT USE METALLIC GROUTS.
02080.30	GROUT, KEYWAY	EUCO NS GROUT	EUCLID CHEMICAL, 800/321-7828 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	01/12/95	1233	R	CEMENTITIOUS BASED, BUT HAS IRON BORINGS IN IT.
02080.30	GROUT, KEYWAY	RAPID SET 3/8" CONCRETE MIX	CTS CEMENT MFG. COMPANY REP: CHUCK VETSCH 253/815/1697 ATLAS SUPPLY 800/806-7952 KODIAK SUPPLY 800/332-7452	11/04/93	941	R	25% CEMENT, PEA GRAVEL & SAND. MANUFACTURER DISCOURAGED USE AS GROUT.
02080.30	GROUT, KEYWAY CEMENTITIOUS	HI FLOW METALLIC GROUT	EUCLID CHEMICAL, 800/321-7628 RW SIMMONS ASSOC, 253/946-3740 WILLIAMS FORMS ENGINEERING	10/13/94	1234	R	CONTAINS METALLIC AGGREGATES.
02210.00	RUST CONVERTOR	TRIUMPH 303	UNITED LABORATORIES INC 155 SO. ROUTE 53 ADDISON IL 60101 312/629-8550	05/01/88	201	R	CONVERTS RUST BUT DOES NOT ACT AS A PERMANENT PRIMER
02210.30	ANTI-GRAFFITI COATING	POLYAC	POLYMER PLASTICS CORP. NORTHWEST COATINGS, INC. DENNIS TAYLOR 503/233-7808	08/11/94	808	R	CLEAR ACRYLIC ESTER SEALER. NOT FOR METAL OR BRIDGE APPS. MAY STAIN.
02210.30	ANTI-GRAFFITI COATING	SINAK GRAFFITI PROTECTION	SINAK CORP. 619/231-1771	08/11/94	1063	R	2 PART POLYMER. SACRIFICIAL. NO CONCRETE BLOCK OR MASONRY.
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	EXTERIOR LATEX A-100 -A82	SHERWIN WILLIAMS 1740 A POWELL BLVD PORTLAND OR 97030	11/10/99	1980	R	FAILS WEIGHT PER GALLON AND SOLIDS CONTENT. 99-3736
02210.30	LATEX EMULSION PAINT FOR CONCRETE FINISH	SPEED-COTE ACRYLIC FLAT LATEX	ICI PAINTS, TIGARD, OR REP, 503/330-0901	06/10/99	1914	R	PRODUCT FAILED TOTAL SOLIDS, AND WIEGHT PER GALLON, AND VISOCSITY.

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02410.00	HIGHWAY EDGE DRAINS	EEE ZZZ LAY DRAIN 2001	EEE ZZZ LAY DRAIN COMPANY RANDY HOUCK 704/883-2130 ALEX MAUCK 503/492-2500	11/04/93	1044	R	100MM PERFORATED PVC SURROUND BY 50MM RECYC STYROFOAM CHUNKS MUCH WATER CAN'T PASS THROUGH, ALLOWS PARTICLES INTO PIPE.
02410.00	HIGHWAY EDGE DRAINS	EZ FLOW	EZ DRAIN 503/492-2500	05/09/02	2556	R	DOES NOT MEET THE REQUIREMENTS OF THIS CATEGORY.
02410.00	HIGHWAY EDGE DRAINS	MIRADRAIN HC DRAIN	TC MIRADRI 253/946-2436	11/08/01	2494	R	DID NOT MEET OUR GUIDELINES.
02440.11	POURED SEALANT SILICONE	SONOLASTIC OMNISEAL	CHEMREX - SONNEBORN DICK HURLEY 360/896-4322	03/12/98	125	R	MANUF.INFORMED ODOT THAT THIS ONE-COMPONENT JOINT SEALANT IS NOT SUITABLE FOR HIGHWAY USE.
02440.20	EXPANSION JOINT, ACRYLIC EXPANDING FOAM FOR MOVEMENTS OF < 44MM.	BLOCOBAND	SALAMANDER INDUSTRIAL PRODUCTS 612/881-9769 VEN: MASONS SUPPLY 800/537-3407, 503/234-4321	08/10/00	1618	R	MATERIAL COMES IN COMPRESSED ROLLS, & EXPANDS TO FIT JOINTS USES OPEN CELL FOAM, WHICH ALLOWS WATER TO PASS.
02440.20	EXPANSION JOINT, ASPHALTIC PLUG FOR MOVEMENTS OF < 50MM.	EXPANDEX	WATSON BOWMAN ACME 800/677-4922 STEVE BRANDT 909/867-2161	06/10/99	966	R	PRODUCT DOES NOT HANDLE HIGH ADT'S WELL, AND DOES NOT BOND WELL BETWEEN CONCRETE AND ASPHALT.
02440.20	EXPANSION JOINT, MODULAR MOVEMENTS OF > 89MM.	ROBEK EXPANSION JOINT (LG)	TECHSTAR, INC 419/424-0888 STEVE BROWN	06/10/93	356	R	USES A SINGLE SUPPORT BAR SYS. ORIG "C", WE LOST CONFIDENCE. LR APPEARS OK.
02440.20	EXPANSION JOINT, MODULAR MOVEMENTS OF > 89MM.	TRANSFLEX EXPANSION JOINT SEAL	STRUCTURAL ACCESSORIES CORPORATE: 203/589-8826 WHITE CAP 503/287-4151	06/13/91	612	R	PREVIOUS EXPERIENCE IN OTHER STATES HAS INDICATED THAT THIS SYSTEM IS UNACCEPTABLE FOR US.
02440.20	EXPANSION JOINT, POLYFOAM COMPRESSION FOR MOVEMENTS OF < 44MM.	EVAZOTE 50	E-POXY TECHNOLOGIES, LLC JOEL DZEKCIORIUS 888/999-2463 WILLIAMS CONCRETE 503/286-3647 MASONS SUPPLY 800/537-3407	06/08/00	2	R	ETHYLENE VINYL ACETATE NITROGEN BLOWN MATERIAL PROBLEMS WITH UV EXPOSURE MFG HAS RECALL IN PLACE 5/2000

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02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	ROBEK EXPANSION JOINT (LK)	TECHSTAR, INC 419/424-0888 STEVE BROWN	07/01/95	356	R	WE DO NOT WANT TO USE THE BOX SHAPE. IT IS NOT APPROPRIATE IN OREGON PER THE MANUFACTURER
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	STEELFLEX SSA2	D.S. BROWN COMPANY MICHAEL MARTINO 480/892-3540 419/257-3561 OR 612/427-0717	06/08/95	1342	R	WE REQUIRE EXTRUSIONS TO BE AT LEAST 140MM TALL. THIS IS ONLY 50MM TALL.
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	STEELFLEX SSCM2 STRIP SEAL	D.S. BROWN 419/257-3561 RICKMAN TRIEM 503/524-5687	02/09/95	1263	R	WE REQUIRE EXTRUSIONS TO BE AT LEAST 140MM TALL. THIS IS ONLY 95 MM TALL.
02440.20	EXPANSION JOINT, STRIP SEAL MOVEMENTS OF 44MM-100MM	STEELFLEX SSE2	D.S. BROWN COMPANY 419/257-3561 OR 612/427-0717 MICHAEL MARTINO 480/892-3540	06/08/95	1345	R	WE REQUIRE EXTRUSIONS TO BE AT LEAST 140MM TALL & 9.5MM THICK THIS IS ONLY 50MM TALL & 8.7MM THICK.
02440.21	ELASTOMERIC CONCRETE FOR PAVING DAMS	SIKADUR 21 LV, LO MOD EPOXY EPOXY	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	04/09/92	828	R	A LOW VISCOSITY. DOES NOT MEET ASTM C 881-90. SEE SPECS-THERE ARE SPECIAL REQUIREMENTS FOR CONSTRUCTION.
02440.21	ELASTOMERIC CONCRETE FOR PAVING DAMS	SIKADUR DOT SP2 EPOXY	SIKA CORP 800/933-7452 THAD BROWN 425/486-5916 ATLAS SUPPLY 800/806-7952 WHITE CAP 503/287-4151	10/09/97	904	R	PROBLEMS IN FIELD. TYPE 3, GRADE 1 CLASS B AND C. SPECIAL FORMULA REQUIRED. WAS SIKADUR 21 LV HE.
02440.40	RUBBER GASKETS BUTYL	RV 30	RUVAN INC. 1175 DIAMOND AVE. EVANSVILLE, IN 47711 FRANCIS MCKENZIE 812/464-2488	09/12/91	624	R	FOR SEALING CONCRETE PIPES WE REQUIRE AASHTO M 198 TYPE A. THIS IS TYPE B, PLASTIC, NOT AS FLEXIBLE AS TYPE A, RUBBER.
02530.70	GALVANIZATION	VALTECH	ZP & G, SALEM, OR; 800/821-8169 RICK STEAKE, 503/588-8364 VALMONT FATENER GROUP/IFI, INC. LEE KUSKE, 800/821-8169	04/08/99	1907	R	MANUFACTURER SHOWED NO INDEP- ENDANT TESTING, OR LONG-TERM DURABILITY RESULTS.
02710.30	ASPHALT ADDITIVE	STARFLEX	NORTHSTAR VEND: CEI, INC. 17314 TOMBALL PARKWAY, SUITE 110; HOUSTON, TX 713/894-0595	02/14/91	583	R	PRODUCT DATA IS INCONSISTANT WITH OUR POLICIES. THE DATA INDICATES INCOMPATIBILITY WITH SOME ASPHALTS.

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02840.10	TRAFFIC PAINT, STANDARD SOLVENT BASED VOC COMPLIANT, LEADED	MORLINE, LOW VOC, LEADED	TMT PATHWAY 800/835-3357 RON CAMPBELL	05/10/01	1426	R	WHITE FORMULA: HLVW1 = 2706A8 YELLOW FORMULA: HLVY2 = 2707A8 ORIGINALLY OK, BUT WE ARE MOVING AWAY FROM LEADED PAINTS
02840.10	TRAFFIC PAINT, STANDARD WATERBORNE	PERVO 4051-0013 906181	PERVO PAINT 800/892-3647 GB "BLAIR" FRANKS	11/16/00	2383	R	HI-PERFORMANCE, RAPID DRY WHITE TEST DECK 73000042-99 FAILED- WAS LESS THAN CONTROL.
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	CENTERLITE MARKER, SERIES 240	3-M COMPANY 800/962-6217 CATHY ARDANAZ 503/612-6718 TRAFFIC CONTROL MATERIALS DIV. 800/553-1380	10/04/90	421	R	MINIMAL REFLECTABILITY, FAILED BOND PULL-OFF TEST, POOR MOUNTING FOR REFLECTORS
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	RAY-O-LITE 2001	RAY-O-LITE, DIV OF PAC-TEC DOUG FORRER 800/848-7025 ALPINE PRODUCTS 253/838-4318 TRAFFIC SAFETY 800/547-8518	07/08/93	936	R	SIZE: 57 X 120 X 12.7 MM. FAILED OUR REFL TEST: 92-13419 DULLER THAN OTHERS ON ROADWAY
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	RAY-O-LITE JR 'ARC' YELLOW: #7706; WHITE: #7708	RAY-O-LITE, DIV OF PAC-TEC DOUG FORRER 800/848-7025 ALPINE PRODUCTS 253/838-4318 TRAFFIC SAFETY 800/547-8518	07/09/92	473	R	ORIGINALLY QUALIFIED 1/90. PERFORMANCE PROB. IDENTIFIED BY WSDOT. DOES NOT MEET OUR RECESSED MARKER SPECIFICATIONS
02840.60	PAVEMENT MARKER, TYPE 1 REFLECTORIZED, RAISED	RIDGEGATE FLEXIBLE PAVEMENT MARKER	RIDGEGATE CORPORATION 16815 S HATTEN RD OREGON CITY, OR 97045 503/631-7064	06/08/89	235	R	TESTED ON SALEM PARKWAY FAILED TO STAY ON PAVEMENT (ALSO CHECK P #351.)
02840.60	PAVEMENT MARKER, TYPE 1AR REFLECTORIZED, RAISED, ABRASIVE RESISTANT	STIMSONITE 88	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	12/09/99	693	R	FAILED THE ABRASIVE RESISTANT TEST. OK FOR USE AS A REGULAR MARKER.
02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	APEX NON-REFLECTIVE PAVEMENT MARKER	APEX UNIVERSAL, INC. 841 N. PIONEER AVE. WILMINGTON, CA 90744 310/834-1128	04/14/94	956	R	RAISED CERAMIC MARKER. DOESN'T MEET CURRENT SPECS. WHICH REQUIRE WSDOT AND CALTRANS APPROVAL.
02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	GLASTIC MARKER PAVEMENT MARKER	GLASTIC CORP MICHAEL CHAMPA 216/383-6275	11/04/93	711	R	EMPLOYS FIBERGLASS DESIGN W/ ONLY 9-16% POLYESTER. TRAFFIC WORE THROUGH MARKER CAUSING IT TO FALL APART.

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02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	RPM 1001 FLEXIBLE MARKERS	RIDGEGATE CORPORATION 16815 S HATTEN RD OREGON CITY, OR 97045 503/631-7064	05/01/88	145	R	FIELD EVALUATION OF PRODUCT WAS ORIGINALLY SUCCESSFUL, BUT FURTHER EVALUATION SHOWED THE MARKER GREYED BEYOND USE.
02840.60	PAVEMENT MARKER, TYPE 2 NON-REFLECTORIZED	SAFETY DOT FORMERLY RAY-O-LITE BUTTONS	ENGINEERED PLASTICS SAM LUZAICH 707/579-1518	02/13/92	515	R	PROD. HAS CHANGED, VENDOR IS REWORKING DIES. RAY-O-LITE DISTRIB THESE FOR BOH AS RAY-O-LITE, NO MORE.
02840.61	ADHESIVE FOR PAVEMENT MARKERS BITUMINOUS	NORRIS BITUMINOUS ADHESIVE ADHESIVE, ALSO CALLED WHITAKER	TMT PATHWAY 1675 COMMERCIAL ST NE SALEM, OR 97303 503/364-2277	09/10/92	330	R	USED ON SALEM PARKWAY. FLASH POINT:287 DEG C.DRY/CLEAN PVMT APPL TEMP: 204-218 DEG C. ORIG Q 8/5/88,LOTS OF FAILURES
02840.61	ADHESIVE FOR PAVEMENT MARKERS BITUMINOUS	RENCO BITUMINOUS ADHESIVE	GRACO/LTI 800/654-8182 OR 512/251-2421 REP:ADHESIVE & PACKAGING, JIM LECORRE 503/626-2146	09/10/92	300	R	EVAL PROJECT BY BUD BRODERICK. APPL TEMP:190 DEG C. FLASH PT. 304 DEG C. MFG NOT INTERESTED AND NEVER USED AFTER Q 10/89.
02840.61	ADHESIVE FOR PAVEMENT MARKERS BITUMINOUS	STIMSONITE BITUMINOUS ADHESIVE	STIMSONITE CORP 800/327-5917 TERRY FERGUS 916/933-6375	08/13/98	133	R	USED ON SALEM PARKWAY. FLASH POINT: 265 DEF C. MIN AIR TEMP 2 DEG. APPL TEMP 204 DEG C. TEST BY LOT.
02840.61	ADHESIVE FOR PAVEMENT MARKERS EPOXY	EAS-6	QCM COMPANY, KENT, WA REP. 206/859-0933 TRAFFIC SAFETY AND SUPPLY REP. 503/235-8531	06/10/99	791	R	PRODUCT FAILS ODOT SPEC FOR PAVEMENT MARKER ADHESIVE. ASTM M237, MODIFIED.
02850.30	DELINEATORS, FLEXIBLE TYPE 4A GUARDRAIL VERSION	FLEXI-GUIDE 427	BRUNZEL EXTRUSION, TACOMA MIKE MADDEN 800/822-7528 TRAFFIC SAFETY 800/547-7528 (WAS DAVIDSON PLASTICS 1/01)	07/09/98	1635	R	THIS TYPE IS NOT APPROVED AS A STAND ALONE DELINEATOR.
02850.30	DELINEATORS, FLEXIBLE TYPE 4A GUARDRAIL VERSION	SAFE-HIT GUARDRAIL DELINEATOR	SAFE-HIT CORP. 800/770-6755 MARK ISON 425/424-2147 JIM CROWLEY 800/770-6755	05/01/88	1561	R	SD 2129 CALLS FOR FOUR LAG SCREWS TO ATTACH, SAFE-HIT PRODUCT USES TWO NAILS.
02850.30	DELINEATORS, FLEXIBLE TYPE II	FLEX-O-POST	PROVEN PRODUCTS 503/663-0124 7560 S.W. LAVIEW DRIVE PORTLAND, OR 97219 503/244-9185	05/01/88	118	R	SUBJECT TO WEATHEROMETER & FIELD EVALUATION. WAS 'C'. YELLOWED AND BROKE EASILY.

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02850.30	DELINEATORS, FLEXIBLE TYPE II	FLEXI-GUIDE 400	BUNZL EXTRUSION, TACOMA MIKE MADDEN 800/822-7528 TRAFFIC SAFETY 800/547-7528 (WAS DAVIDSON PLASTICS 1/01)	11/13/97	608	R	THIS TYPE HAS BEEN REJECTED IN THE PAST, BENDS EASILY, NOT UV RESISTANT. POOR NTPEP TESTS. WAS ALL WEST PLASTICS
02860.00	IMPACT ATTENUATOR, PERMANENT NCHRP 350 TL-3 IMPACT SPEED 100KPH/60MPH	ENERGITE III	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	05/01/88	1297	R	OK FOR TEMP APPS ONLY. GORES OR SHLDS WITH OBSTR > 900 MM. NOT VANDAL PROOF.
02860.00	IMPACT ATTENUATOR, PERMANENT NCHRP 350 TL-3 IMPACT SPEED 100KPH/60MPH	FITCH SAND FILLED MODULES LABELED AS "UNIVERSAL MODULE"	ENERGY ABSORPTION SYSTEMS, INC JIM CROWLEY 312/467-6750 CORAL SALES: 800/538-7245	06/10/93	1028	R	OK FOR TEMP APPLS ONLY. NOT REDIRECTIVE. NOT VANDAL PROOF. CHECK STANDARD DRAWING RD 940. SAND FILLED DRUMS, NEW IN '93
02860.00	IMPACT ATTENUATOR, PERMANENT NCHRP 350 TL-3 NON-REDIRECTIVE	TRAFFIX DEVICES BIG SANDY	TRAFFIX DEVICES TODD MELIN 949/361-5663 ROGER ALFREY 801/576-9191	03/11/99	1850	R	12 MODUAL ARRAY ONLY. NOT VANDAL PROOF. APPROVED FOR TEMPORARY USES ONLY.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW APPS. NCHRP 350 TL-2, GATING, NON REDIRECTIVE	ABSORB 350 TL-2	BARRIER WEST 707/374-6800	03/14/02	2336	R	FOR FRONT OF BARRIER AND QUICK CHANGE BARRIER. WE DON'T USE THE WATER FILLED UNITS FOR PERMANENT APPLICATIONS.
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW APPS. NCHRP 350 TL-3, GATING IMPACT SPEED 100KPH/60MPH	ADIEM 350	TRINITY INDUSTRIES, INC. CHUCK NORTON 800/772-7976 DON GRIPNE 360/943-9559 RANDY OLSON 800/772-7976	06/11/98	1663	R	FOR FRONT OF CONCRETE BARRIER. LONGTERM DURABILITY OF PERLITE BLOCKS QUESTIONED.REDIRECTIVE. PROB AT DELANEY RD (SALEM)6/98
02860.00	IMPACT ATTENUATOR, PERMANENT, NARROW APPS. NCHRP 350 TL-3, GATING, NON REDIRECTIVE	ABSORB 350 TL-3	BARRIER WEST 707/374-6800	03/14/02	2336	R	FOR FRONT OF BARRIER AND QUICK CHANGE BARRIER. WE DON'T USE THE WATER FILLED UNITS FOR PERMANENT APPLICATIONS.
02860.00	IMPACT ATTENUATOR, PERMANENT, WIDE NCHRP 350 TL-3 RE-DIRECTIVE, NON-GATING	REACT 350-WIDE	ENERGY ABSORPTION SYSTEMS, INC 312/467-6750 CORAL SALES: 800/538-7245	03/13/02	1826	R	TESTED FOR IMPACT SPEEDS UP TO 100KPH/60MPH. BUT LATER TESTS SHOWED PROBLEMS. HD PLASTIC CYL RE-EXPAND AFTER IMPACT.
02910.10	SIGN SUBSTRATE	3004-H38 SIGN BLANKS	SIGNS AND BLANKS 800/837-2245	09/10/92	933	R	THIS IS A RECYCLED ALUMINUM. IT CAN NOT MEET OUR STANDARDS FOR TENSILE STRENGTH AND ELONGATION.

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02910.10	SIGN SUBSTRATE	MEDEX SIGN MATERIAL	MEDITE CORP. 503/773-2522 MEDFORD, OR 97501 VEN: SUN SUPPLY JOHN SULLIVAN 503/222-5080	03/11/93	323	R	FIBER-BOARD LIKE MAT'L. TESTED BY ODOT. WHEN THE SURFACE WAS DAMAGED IT WOULD SWELL.
02910.10	SIGN SUBSTRATE PVC	ULTRA-PLAS	ULTRA-PLAS SAFETY PRODUCTS 800/959-8502	08/11/94	1200	R	1 MM PVC.
02910.20	REFLECTIVE SIGN SHEETING ENCLOSED LENS AASHTO M268 TYPE I	AVERY DENNISON T-1500	AVERY DENNISON 800/327-5917 TERRY FERGUS 916/933-6375	01/10/02	2345	R	MFG HAS NOT HAD ALL THE TESTS INDEPENDENTLY TESTED.
02920.13	JUNCTION BOXES	POLY 1000	J.A. INDUSTRIES, INC. SUITE 930, 720 OLIVE WAY SEATTLE, WA 98101 206/467-1041	09/09/93	862	R	ROUND PLASTIC, 375MM D X 305MM. DOES NOT MEET OUR CURRENT SPECIFICATIONS.
02920.13	JUNCTION BOXES	POLY 2000	J.A. INDUSTRIES, INC. SUITE 930, 720 OLIVE WAY SEATTLE, WA 98101 206/467-1041	09/09/93	807	R	ROUND PLASTIC, 533MM D X 380MM. DOES NOT MEET OUR CURRENT SPECIFICATIONS.
02920.25	WIRE CONNECTORS	KING ONE STEP CONNECTOR	REEVES AND ASSOCIATES 11015 177TH PLACE NE KIRKLAND, WA 98033 DOUG KIRK 425/827-2400	03/11/93	982	R	SCREW CONNECTORS MADE FOR USE WITH COPPER WIRE ONLY. DOES NOT MEET OUR SPECS FOR WATER PROOFING.
03010.00	FENCING, CHAIN LINK	CENTURY CMT 40	CENTURY TUBING PO BOX 7612 PINE BLUFF, AR 71611 501/535-6200 OR 800/643-1523	01/17/91	614	R	EXTERIOR IS GALV. WITH .03 MIL ORGANIC TOPCOAT. AASHTO M 181 REQUIRES .007MM ORGANIC COAT. INTERIOR IS PAINTED. (GRADE 2)
03010.00	FENCING, CHAIN LINK	CYCLONE C-SECTION (GALFAN)	GREGORY GALVANIZING 800/322-0477 JIM DESMITH	12/12/91	810	R	GALFAN COATING WITH 5% ALUMINUM MISCHMETAL. DOES NOT MEET AASHTO M 181.
03110.00	WETLAND GEOTEXTILE	BONTERRA AMERICA, INC.	BONTERRA AMERICA, INC. JANIE BURT 800/882-9489	02/11/99	1672	R	100% BIODEGRADABLE. MAY BE PREPLANTED. MFTR SAYS IT MAY BE PROOF AGAINST WAVE ACTION.

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03110.20	SOIL CONDITIONER	DAIRY COW MANURE	ANDERSON EROSION 503/998-2062	11/09/95	1402	R	EXPERIENCE HAS SHOWN THAT THIS PRODUCT HAS WEED AND GRASS SEED IN IT.
03110.40	MULCHING TACKIFIER	SOIL SEMENT	MIDWEST INDUSTRIAL SUPPLY CANTON, OHIO; 800/321-0699 VEN: AMER.WET ENVIRONMENTAL SULLIES; 800/531-6808	01/08/98	1334	R	PRODUCT IS NOT COMPATABLE WITH GROWING VEGETATION
03200.00	CHEMICAL DE-ICER	FREEZGARD + PCI	GREAT SALT LAKE MINERAL/CHEM OGDEN, UT GLEN HOLT	11/04/93	334	R	PRODUCT NO LONGER HAS CHLORIDE INHIBITOR, PCI. DAMAGE TO STRUCTURES COULD BE IRREVERSIBLE.
03200.00	CHEMICAL DE-ICER	ICE AWAY D-954	NILES CHEMICAL PAINT AMERICAN SHIELD COATING CO. 800/854-6455	10/13/94	1208	R	XYLENE/ALKYD RESIN/TOLUENE HIGH VOC'S...625 G/L, VERY HIGH COST:\$6400/LANE KM
03200.00	CHEMICAL DE-ICER	MAGI-MELT	TEXAS REFINERY, 800/827-0711	12/12/96	1616	R	CALCIUM CHLORIDE.
03200.00	CHEMICAL DE-ICER	OPEN ROAD PLUS	CHEMSEARCH 2727 CHEMSEARCH BLVD IRVING, TX 800/527-9921	02/13/97	595	R	CORROSIVE NATURE, HARMFUL TO PLANTS AND GRASS. LIQUID MAG CHLORIDE DERIVATIVE.
03200.00	DELINEATOR REFLECTOR	WIDE ANGLE DELINEATOR	SEKISUI JUSHI CORP SAM GOTO 404/386-8837 DIST: WAHLCOR, INC. MIKE GLEASON 816/753-1559	02/10/94	1089	R	158 MM DIAMETER REFLECTOR. IT WILL NOT MOUNT WELL TO OUR STANDARD DELINEATOR. DESIGNED FOR 1.2M TALL-OURS ARE 1.1M.
03200.00	EQUIPMENT	VIBRATING SCREED	AREA WEST	09/19/85	5	R	TOO FLIMSY TO LEAVE A DECENT GRADE. WHEN EVALUATED ON A CNTY BR. DECK IT LEFT HUMPS & DIPS THAT WERE GRND & FILLED.
03200.00	FLAGGER AIDE	SAFETY BEACON LIGHTS	K & K SYSTEMS 601/842-4476 FRED GUENTHER 206/999-2829	07/09/98	1683	R	CONCERNS ABOUT CONFUSING THIS WITH A SIGNAL. COULD DISTRACT ATTENTION FROM FLAGGER. COULD MAKE FLAGGER OVERLY CONFIDENT.

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03200.00	HANDICAP DETECTION MAT	ALERTMAT	CAPLE-SHAW INDUSTRIES, INC. BILL SHAW 817/625-9442 RLS MARKETING: DIANE ANCTIL OR ROBERT SPROUSE 919/872-4994	07/08/93	1022	R	DANGEROUS-CAN CAUSE PEOPLE TO TRIP. RPTED THAT VIBRATIONS CAUSE SPASMS IN PEOPLE IN WHEELCHAIRS.
03200.00	MAINTENANCE EQUIPMENT	AMZ MAGNUM	ZIMMERMAN EQUIPMENT 615/833-5705 UTILITY EQUIPMENT CO. 503/620-0611	12/13/90	607	R	THIS IS A CAPITAL OUTLAY ITEM, IT IS EQUIPMENT.
03200.00	MAINTENANCE PLATFORM	FIBERGRATE	FIBERGRATE CORP/MANUFACTURER TOURANGEAU NOR WES CORP. 503/644-2010 BEAVERTON OR 97005	11/15/90	489	R	(503) 644-2010 BENFITS DID NOT OUTWEIGH THE ADDITIONAL COST OF DESIGN CHANGES FOR EACH INSTALLATION

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APPENDIX A – APPROVED REINFORCING STEEL PRODUCERS

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

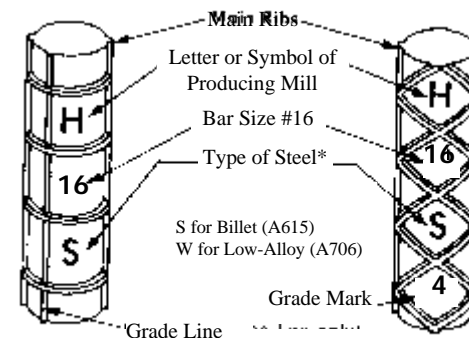
1st – Producing Mill (usually a letter)

2nd – Bar Size Number (#10 through #57)

3rd – Type of Steel: **S** for Billet (A615)

W for Low-Alloy (A706)

4th – Minimum Yield Designation

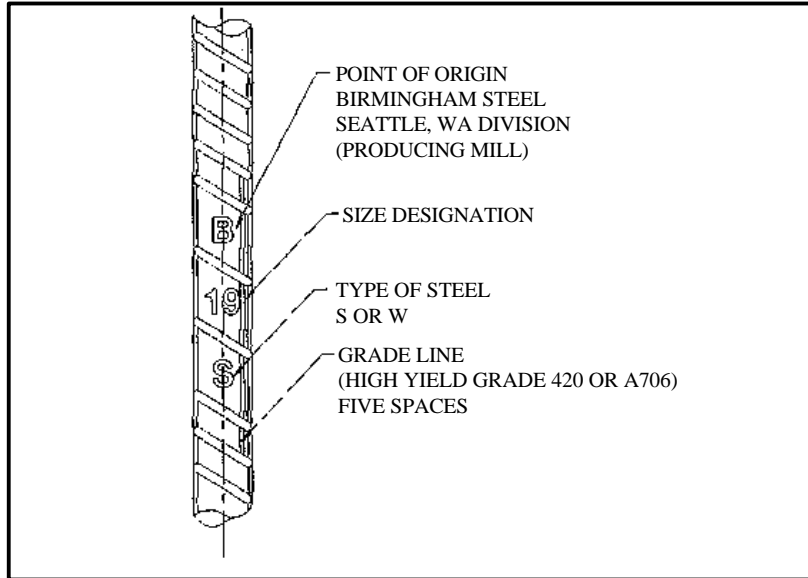


The minimum yield designation for Grade 420 bars is either one (1) single, longitudinal line (grade line) or the number 4 (grade mark).

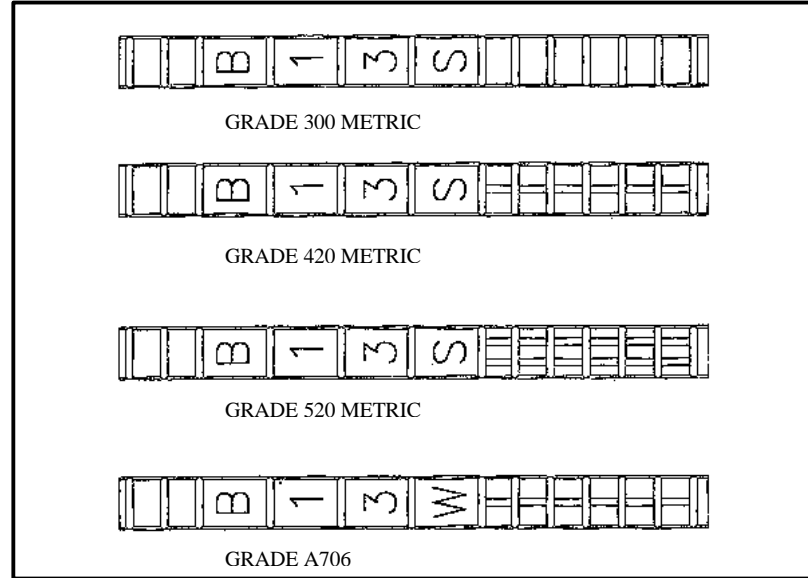
A grade line is smaller and is located between the two main ribs, which are on opposite sides of all bars made in the United States. A grade line must be continued through at least 5 deformation spaces, and it may be placed on the side of the bar opposite the bar marks. A grade mark is the fourth mark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

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

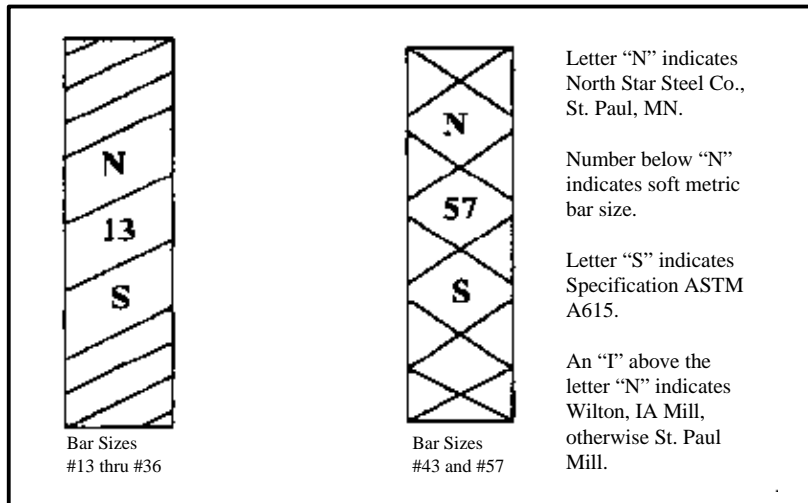
The identification marks for the Approved Producers are shown in the following figures.



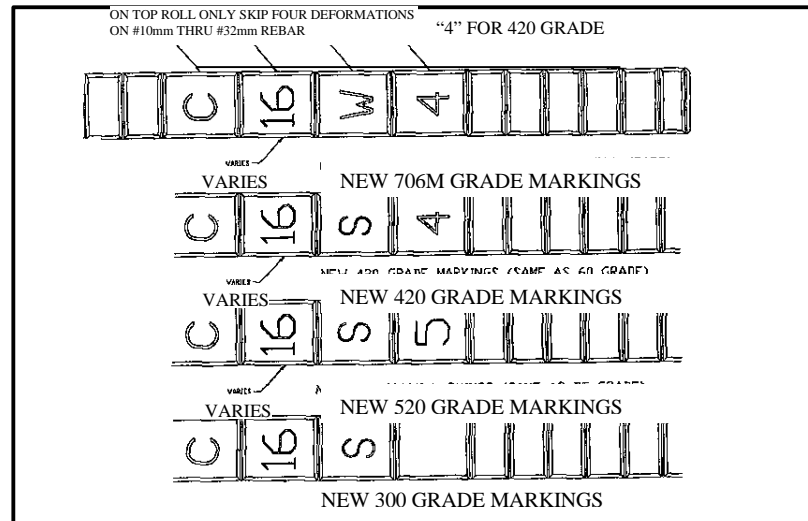
SALMON BAY STEEL
(DIVISION OF BIRMINGHAM STEEL CORP.)



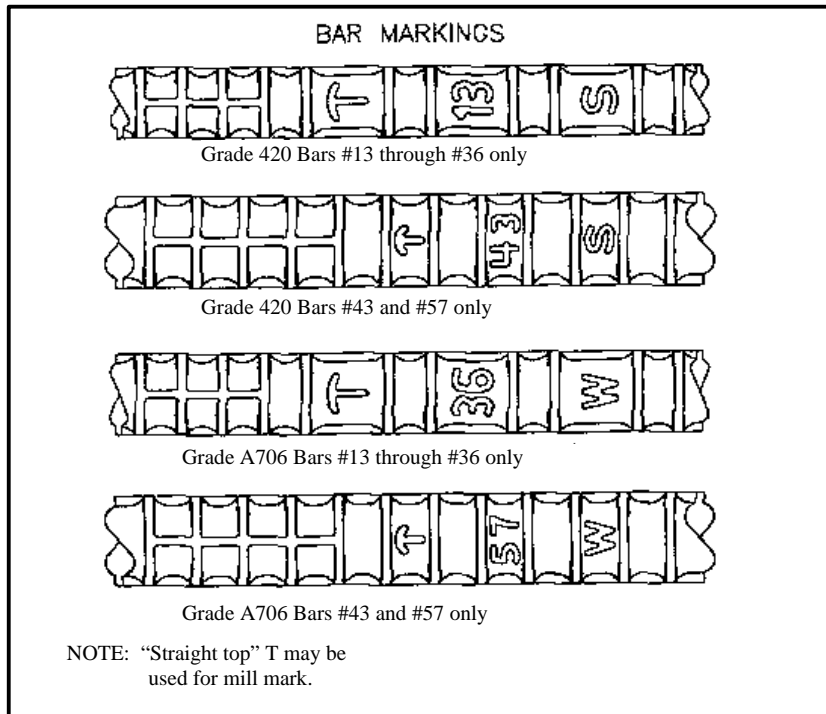
BORDER STEEL
(EL PASO, TEXAS)



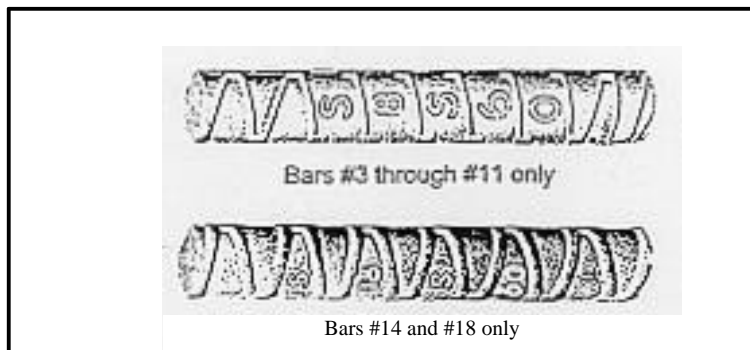
NORTH STAR STEEL
(ST PAUL, MN)



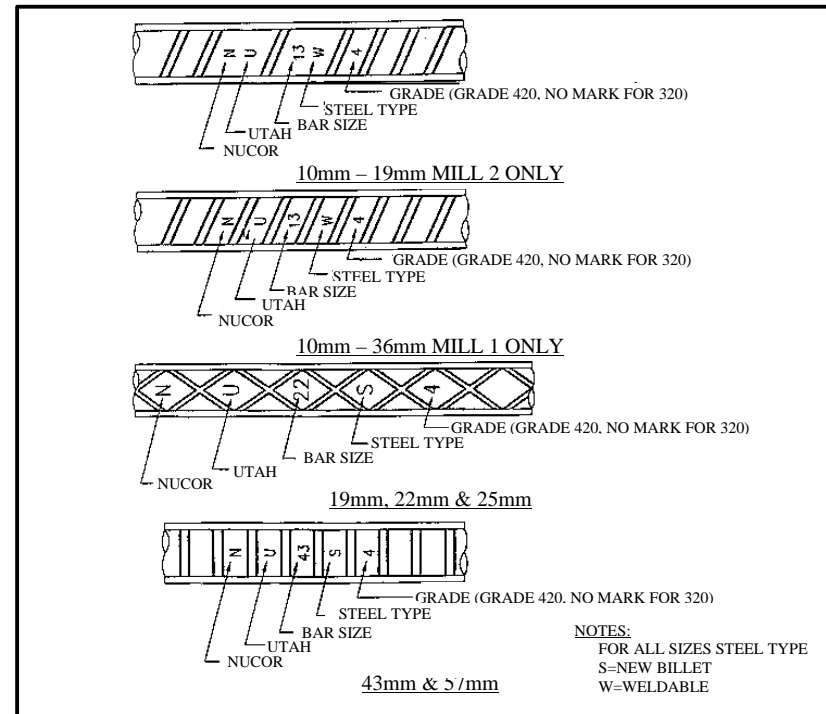
CASCADE STEEL ROLLING MILLS



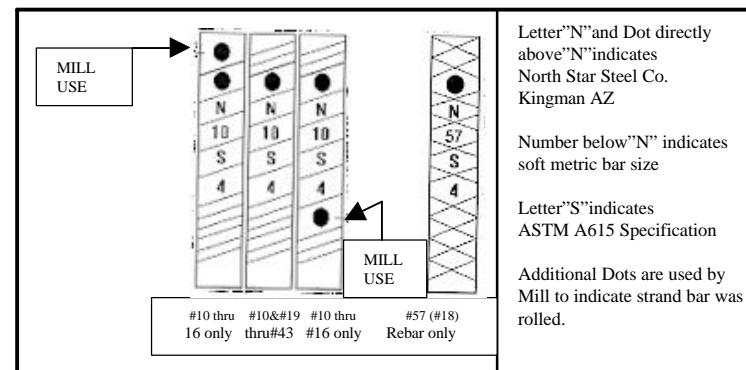
TAMCO STEEL
(RANCHO CUCAMONGA MILL)



SEATTLE STEEL, INC.
(NO LONGER PRODUCING)



NUCOR CORPORATION (UTAH MILL)



NORTH STAR STEEL
(KINGMAN, ARIZONA)