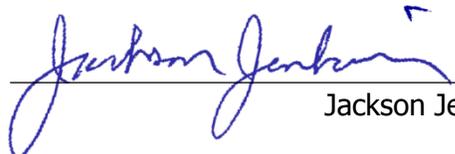


Substantive Policy Number: SPN2016-01
Responsible Division: Planning & Engineering
Effective Date: July 1, 2016
Date of Next Review: June 30, 2018

Approved: 
Jackson Jenkins, Director

SUBJECT: PCRWRD Product Selection Committee

I. PURPOSE

- A. This Substantive Policy Statement establishes a Product Selection Committee (PSC) for public sanitary sewer conveyance facilities operated by the Pima County Regional Wastewater Reclamation Department (PCRWRD).

II. GENERAL PROVISIONS

- A. The purpose of the PSC is to evaluate new products for use in the public sanitary sewer conveyance system operated by PCRWRD and to ensure that the PCRWRD rate payers are receiving quality and value. In addition, the PSC is responsible to the Director for ensuring that the safety of the public is maintained by the use of products that have been tested, evaluated, or examined for conformance with PCRWRD standards.

The PSC is also responsible for the content and maintenance of the PCRWRD List of Approved Products (LAP) for Public Sanitary Sewer Conveyance Facilities. The Director of RWRD shall approve all revisions to the LAP.

III. REVISIONS

- A. This Substantive Policy shall be reviewed periodically as necessary to ensure best product performance and support for the efficient operations and maintenance of the PCRWRD conveyance system.

1. PRODUCT SELECTION COMMITTEE

The Pima County Regional Wastewater Reclamation Department (PCRWRD) Product Selection Committee (PSC) is administered by the PCRWRD Field Engineering Unit (FEU). The purpose of the PSC is to evaluate new products for use in the public sanitary sewer conveyance system operated by PCRWRD and to ensure that the PCRWRD rate payers are receiving quality and value. In addition, the PSC is responsible to the Director for ensuring that the safety of the public is maintained by the use of products that have been tested, evaluated, or examined for conformance with PCRWRD standards.

The PSC is the sole entity through which products may be selected or deleted from use in the public sanitary sewer conveyance system operated by PCRWRD. The PSC is also responsible for the content and maintenance of the PCRWRD List of Approved Products (LAP). For the purposes of product selection, PCRWRD regards "product" to also include materials, mechanisms, equipment, processes, and construction procedures. The PSC is also responsible for the formal removal of products from approved use in the public sanitary sewer system operated by PCRWRD.

The PSC shall consist of a minimum of five (5) members selected from PCRWRD staff. The members of the PSC shall be selected on the basis of their combined technical competence, experience, and familiarity with the product categories under consideration. Additional members may be added based upon the needs of the PSC at that time. The Chairman of the PSC shall be selected from a member of the FEU engineering staff and shall be responsible for facilitating the PSC for an assigned period.

2. NEW PRODUCT SUBMITTAL PROCEDURES

All requests for consideration of new products shall be directed to the PSC at the following address:

Product Selection Committee
PCRWRD Field Engineering Unit
1313 South Mission Road, Bldg. 17
Tucson, Arizona 85713-1398
(520) 724-2651

Requests may also be submitted to the following email address: pcrwrdpvc@pima.gov

Initial requests for product consideration should include a submittal with the following information:

- a. Letter identifying the representative making the submittal, the manufacturer, the product or material requesting consideration, and its intended application within the sanitary sewer system.
- b. User references, including key contact persons.
- c. Need for certified installers, applicators, or operators and a description of the certification program.
- d. Nearest supplier and/or service provider.
- e. Pertinent literature, including applicable certifications and reference standards, such as AWWA/ANSI, ASTM, UL, etc.
- f. A material sample, if practical.
- g. Information regarding the safe use and limitations of the product.
- h. SDS information as appropriate.
- i. Warranty information.

In addition, submitters may request time for a formal presentation to the PSC. This would be especially beneficial for products that are unique or significantly different from those currently approved or used. Such requests should be made through the PSC Chairman who may be contacted at the email address above or by calling PCRWRD Field Engineering at the phone number above. Presentations will normally be conducted during the regularly scheduled meetings of the PSC.

The PSC shall meet quarterly at the PCRWRD Field Engineering office located at the address listed above. Committee meetings are routinely scheduled for 10:00 AM on the second Thursday of March, June, September, and December. Formal presentations, including questions, are limited to no more than one hour. Requests for special meetings may be entertained in unusual circumstances, with sufficient advance notice.

3. REVIEW PROCESS

Decisions regarding new products will typically be phased. All new products will first be designated by the PSC as under Administrative Review. After the Administrative Review, during which the PSC reviews the quality and completeness of the submitted material, the new product shall be placed into an initial review status category. The product review will progress through the subsequent steps until reaching a final status. To summarize, the review status categories are as follows:

- a. Administrative Review: This period begins when the product submittal is received. This review involves confirming the quality and completeness of the submittal before distribution to the PSC.
- b. Technical Review: This period begins when the product information has been distributed to the PCS members for consideration. In general, all new products will be subject to this designation. When there are questions or items that require clarification, the PSC may request additional information or a meeting with a product representative.
- c. Under Test: Through its technical review, the PSC has determined that the product may be an "equal or better" or an otherwise viable alternate to existing products. However, there shall be a period of due-diligence operational testing and evaluation in the PCRWRD conveyance system to confirm product claims and ensure compatibility, durability, corrosion resistance, etc.
- d. Approved: Based on the product evaluation and testing, the PSC has determined that the product is approved for general use within the system, in accordance with PCRWRD standards and specifications.
- e. Conditionally Approved: The PSC has determined that use of the product shall be limited to pre-approved applications or locations.
- f. Not Approved: The PSC has determined that the product shall not be used in the PCRWRD system.
- g. Tabled: The PSC chooses to either take no action or to suspend Technical Review for a justifiable reason such as a delay while additional required information is produced.

4. REVIEW CRITERIA

The review criteria will depend on the product under consideration. Typical criteria may include, but is expressly not limited to the following:

- a. Product compliance with current PCRWRD technical specifications.
- b. Product conformance with current industry standards.
- c. Product safety.
- d. Product suitability for long-term use in the public sewer system.
- e. Product operation and maintenance (O&M) requirements.
- f. Product compatibility with O&M procedures used by PCRWRD.
- g. Product compatibility with other products used in the PCRWRD collection system.
- h. Product suitability as a cost-effective alternate to existing products.
- i. Product ability to fulfill a need not currently met.
- j. Product advantages/disadvantages versus major competitors or currently used products.
- k. Product repair/equipment inventory requirements.
- l. Cost impact for product change versus continued use of existing products.
- m. Availability of technical/operational support.
- n. Proprietary characteristics of the product.
- o. List of product approval by regional, state or municipal jurisdictions.
- p. Results of evaluation of the product by other jurisdictions.
- q. Supporting references from past users.
- r. History of the manufacture and use of the product.

5. TIMEFRAMES AND CONDITIONS

The PSC shall make every effort to complete their review in a timely fashion. However, there shall be no obligation to complete a review in any specific timeframe other than that which benefits PCRWRD and its rate payers.

Under normal circumstances, the goal of the PSC is to complete the Administrative Review within ten (10) business days and the Technical Review within sixty (60) calendar days. Products in Technical Review may be removed from consideration if the submitter fails to respond to requests for additional information within sixty (60) days.

In general, all but the most incidental new products shall be subjected to an operational test period of at least one (1) year. New product submitters are strongly advised to allocate sufficient time for the test period in their business plans. The parameters of specific product tests shall be established solely by the PSC based upon the product type. Product testing shall be arranged in a manner that is entirely conformable with the operational requirements of the conveyance system and shall be arranged at the discretion of the PCRWRD Deputy Director for Conveyance. Product testing shall be arranged to also consider the degree to which remediating a product failure would impact the conveyance system operation and the means by which remediation may be accomplished most efficiently.

In general, PCRWRD encourages the new product supplier to provide sufficient sample(s) of the product to PCRWRD for the purposes of testing in the conveyance system. If samples and technical support are not provided, PCRWRD can make no representations regarding the timeframe with which a product test may be conducted.

The approval of a product is limited to the stated models or conditions at the date of approval. Any product modifications shall require additional review and approval. Approval may be rescinded at any time by the PSC for sufficient cause such as poor material performance, unapproved design changes, changes in manufacturing process or inadequate product support services.

Products that are Not Approved may be reconsidered if the submitter can supply satisfactory additional information that may influence the reasons stated for the original decision. PCRWRD retains the right to decline approval of any product that is deemed to be incompatible with our current products or operational procedures. Furthermore, PCRWRD reserves the right to limit the number of approved products in a given classification based on need and efficiency.

Appeals to PSC decisions may be made to the PSC Chairman. Further appeals may be made to the Director of PCRWRD.



WASTEWATER RECLAMATION

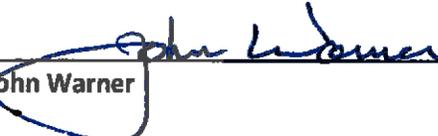
List of Approved Products
for Sanitary Sewer Conveyance Facilities

Updated: June, 2016

Approved:


Jackson Jenkins Director 7/20/16 Date


Eric Wieduwilt, P.E. Deputy Director 07/18/14 Date


John Warner Deputy Director 07-15-2016 Date


Peter J. Mulvey, P.E. Chair – Product Selection Committee 7/18/2016 Date

Preface

- This list is not to be construed as an endorsement or used for promotional purposes.
- The Pima County Regional Wastewater Reclamation Department (PCRWRD) does not have the obligation to use any products listed in the List of Approved Products (LAP).
- The LAP documents that the listed products have been tested, evaluated, or examined under PCRWRD standards, and have been found acceptable for use in the construction of public sanitary sewer systems.
- This list is believed to be accurate as of the date of printing. Product specifications change, however, often without notice. It is the Contractor's responsibility to verify that each product is suitable for the given application and complies with the requirements of the *PCRWRD Standard Specifications and Details for Construction 2016* at the time of its intended use.
- PCRWRD makes no guarantee as to the availability of any of the products on the list. It is the Contractor's responsibility to verify product stock with sufficient lead-time to ensure that there are no project delays due to unavailability of materials.
- Please refer to the current version of the PCRWRD Engineering Design Standards, and the *PCRWRD Standard Specifications and Details for Construction 2016*, for applications that reference the LAP.
- PCRWRD reserves the right to update the LAP without prior notice.
- PCRWRD is not liable for any loss caused by use of LAP.
- A current LAP can be downloaded from the PCRWRD web site or obtained from the PCRWRD Field Engineering Unit at 1313 South Mission Road, Tucson, Arizona 85713.
- The LAP is administered and maintained by the PCRWRD Field Engineering Unit. The LAP is updated based on recommendations made by the PCRWRD Product Selection Committee.
- Trade or manufacturer names which appear herein are cited because they are considered essential to the objectives of the list.
- Any questions concerning this publication or its use should be directed to:

**Attn: Product Selection Committee
PCRWRD Field Engineering
1313 South Mission Road
Tucson, Arizona 85713
(520) 724-2651 or pcrwrpssc@pima.gov**

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Pima County Regional Wastewater Reclamation Department
**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

A - Trenching and Earthwork			
	Product Description	Model	Manufacturer
A-1 GEOTEXTILES			
A-1	Geotextile for Subsurface Drainage	Geotex® Nonwoven Geotextile	Propex Operating Company, LLC. 1110 Market Street, Suite 300 Chattanooga, TN 37402 USA 1-800-621-1273 www.propexglobal.com
A-1	Geotextile for Subsurface Drainage	Mirafi® 140N	TenCate Geosynthetics 365 South Holland Drive Pendergrass, GA 30567 706-693-2226 www.tencate.com
A-2 PIPE MARKING AND LOCATOR SYSTEMS			
A-2	Electronic Marker Disk	EMS Disk Markers 80630000273, 80611303548	3M Infrastructure Protection Division 6801 River Place Blvd. Austin, TX 78726-9000 800-426-8688 www.3M.com/dynatel
A-2	HCS Cap Housing for Electronic Marker Disk	SMARTPlug" PVC Fitting for EMS Disc Marker	GPK Products, Inc. 1601 43rd St. NW Fargo, ND 58102 800-437-4670 www.gpk-fargo.com
A-2	Underground Marking Tape	HYTECH Detectable Tape	Northtown Company PO Box 2064 Huntington Beach, CA 92647 800-972-7274 www.northtowncompany.com
A-2	Underground Marking Tape	Detectable Tape (5.0 mil)	Pro-Line Safety Products Company 1099 Atlantic Drive, Unit 1 West Chicago, IL 60185 800-554-3424 www.prolinesafety.com
A-2	Underground Marking Tape	Terra Tape® Detectable Warning Tape	Reef Industries, Inc. 9209 Alameda Genoa Rd. Houston, TX 77075 800-231-6074 www.reefindustries.com
A-2	Box and Cover for Force Main Test Station	Brooks 1-RT Flush	Farwest Corrosion Control Company 1480 West Artesia Blvd. Gardena, CA 90248 www.farwestcorrosion.com
A-2	Box and Cover for Force Main Test Station	G5 Valve Box	Jensen Precast 4801 E. Wyoming Street Tucson, AZ 85706 520-748-1607

**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

			www.jensenprecast.com
B - Sanitary Sewer Pipe			
	Product Description	Model	Manufacturer
B-1: GRAVITY SEWER LINES			
B-1	Ductile Iron Pipe (DIP)	CL-350	McWane Ductile 2266 South Sixth St. Coshocton, OH 43812 740-622-6651 www.mcwaneductile.com
B-1	Ductile Iron Pipe (DIP)	CL-350	US Pipe PO Box 10406 Birmingham, AL 35202 or Two Chase Corporate Drive Ste. 200 Birmingham, AL 35244 866-347-7473 www.uspipe.com
B-1	Interior Corrosion Protection for Ductile Iron Pipe (DIP)	Novocoat SP-2000W	ErgonArmor PO Box 1639 Jackson, MS 39215-1639 877-982-7667 www.ergonarmor.com
B-1	Interior Corrosion Protection for Ductile Iron Pipe (DIP)	Series 431 Perma-Shield PL	Tnemec 6800 Corporate Drive Kansas City, MO 64120-1372 800-TNEMEC1 www.tnemec.com
B-1	Centrifugally Cast Fiberglass Reinforced Polymer Mortar (CCFRPM) Pipe	CCFRPM	HOBAS Pipe USA 1413 Richey Road Houston, TX 77073 800-821-7715 www.hobaspipe.com
B-1	Polyvinyl Chloride Pipe (PVC)	Sani-21, SDR-35, SDR-26 C-900, C-905	Diamond Plastics Corporation 1212 Johnstown Road Grand Island, NE 68803 800-PVC-PIPE www.dpccpipe.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35 C-900, C-905	North American Specialty Products 300 South Beckman Road Lodi, CA 95240 855-624-7473 www.naspecialtyproducts.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35, SDR-26 C-900, C-905	JM Eagle 5200 West Century Blvd. Los Angeles, CA 90045 800-621-4404

**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

			www.jmeagle.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35, SDR-26 C-900, C-905	Vinyltech Corporation 201 South 61 st Ave. Phoenix, AZ 85043 602-233-0071 www.vtpipe.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35, SDR-26	North American Pipe Corporation 2801 Post Oak Blvd. Stu. 600 Houston, TX 77056 800-999-7473 www.northamericanpipe.com
B-2: FORCE MAINS			
B-2	High Density Polyethylene Pipe (HDPE), DR-11	PP152-4710 DriscoPlex® 4100 IPS (PE4710)	Performance Pipe 5085 West Park Blvd. Ste. 500 Plano, TX 75093 800-233-6495/972-599-6646 www.performancepipe.com
B-3: REPAIR COUPLINGS AND ADAPTERS			
B-3	Compression Couplings	CC-441-442, FBE Coating	Smith-Blair, Inc. 30 Global Avenue Texarkana, AR 71854 800-643-9705 www.smith-blair.com
B-3	Compression Couplings	Style 581 or RC 501, FBE Coating	Romac Industries, Inc. 21919 20 th Avenue SE Bothell, WA 98021 800-426-9341 www.romac.com
B-3	Flexible Couplings	Type 1, Type D, Adjustable Reducing (Case-by-Case basis with Field Engineering Prior Approval)	Mission Rubber Company, LLC. 1660 Lesson Lane Corona, CA 92879 800-854-9991 www.missionrubber.com
B-3	PVC Joint Adapter	SDR35 Adapters Gasketed Molded Fittings Solvent Weld	Specified Fittings, Inc. 164 W. Smith Road Bellingham, WA 98226 360-398-7700 www.specifiedfittings.com
B-4: OTHER PIPE RELATED COMPONENTS			
B-4	Ductile Iron Pipe Fittings	C-153 Ductile MJ Fittings MJ Accessories (MJ Gaskets, T-Bolts & Nuts) C-110 Flanged Fittings Flange Accessories Packs (Flange Gasket, Bolts & Nuts)	Sigma 700 Goldman Drive Cream Ridge, NJ, 08514 800-688-6230 www.sigmaco.com

**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

B-4	Ductile Iron Pipe Fittings	Joint Restraints DIP Compact MJ Fittings MJ Accessories (MJ Gaskets, T-Bolts & Nuts) Flange Accessories Packs (Flange Gasket, Bolts & Nuts)	Star Pipe Products 4018 Westhollow Pkwy. Houston, TX 77082 800-999-3009 www.starpipeproducts.com
B-4	Ductile Iron Pipe Fittings	C-153 Ductile MJ Fittings MJ Accessories (MJ Gaskets, T-Bolts & Nuts) C-110 Flanged Fittings Flange Accessories Packs (Flange Gasket, Bolts & Nuts) Joint Restraints DIP Series 1000 Tuf Grip DIP Series 1500 Tuf Grip PVC, DIP, & HDPE Series 2000 Tuf Grip PVC	Tyler Union 1501 W. 17 th St. Anniston, AL 36202 256-236-7601 www.tylerunion.com
B-4	Casing Spacers/Insulators for Carrier Pipe	Calpico Model PX Galvanized: M-6, M-8, M-12; Stainless Steel: M-6-SS, M-8-SS, M-12-SS	Calpico Inc. 1387 San Mateo Ave. So. San Francisco, CA 94080 800-998-9115 http://www.calpicoinc.com
B-4	Casing Spacers/Insulators for Carrier Pipe and End Seals	DuoCan Centralizers Polyethylene	Advance Products & System, Inc. 108 Asset Ave. Scott, LA 70583 (337) 233-6116 http://apsonline.com/site
B-4	Casing Spacers/Insulators for Carrier Pipe and End Seals		CCI Pipeline Systems 1058 O'Neal Drive Breaux Bridge, LA 70517 800-867-2772 www.ccipipe.com
B-4	Joint Restraining Systems	6500 Bell Restraint Harness PVC Joint Restraint 2000 PV Megalug PVC 1100 Megalug DIP 1500TD Tru-Dual Joint Restraint 1600TD Tru-Dual Joint Restraint 1700 Megalug Harness Joint Restraint	EBAA Iron, Inc. PO Box 877 Eastland, TX 76448 800-433-1716 www.ebaa.com
B-4	Joint Restraining Systems	600 Series Pipe Restraints RomaGrip Pipe Restraint PVC RomaGrip PVC Pipe Restraint	Romac Industries, Inc. 21919 20 th Avenue SE Bothell, WA 98021 800-426-9341 www.romac.com
B-4	Joint Restraining Systems	165 Bell-Lock Joint Restraint	Smith-Blair, Inc. 30 Global Avenue Texarkana, AR 71854 800-643-9705

**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

			www.smith-blair.com
C – House Connection Sewer (HCS)			
	Product Description	Model	Manufacturer
C-1: HCS-RELATED PRODUCTS			
C-1	Gasketed Sewer Fittings	SDR 35	Harco Harrington Corp. 3721 Cohen Place Lynchburg, VA 24501-5047 800-825-7094 www.harcofittings.com
C-1	Gasketed Sewer Fitting/ Solvent Weld Sewer Fitting	SDR 35	GPK Products, Inc. 1601 43rd St. NW Fargo, ND 58102 800-437-4670 www.gpk-fargo.com
C-1	Stock Coupling Flexible Tap Saddles	4" ONLY	Fernco Inc. West 855 Linda Way Sparks, NV 89431 (810)503-9000 www.fernco.com
C-1	G-Series Gasket Sewer Fitting F-Series Solvent Weld Fitting	SDR 35 SDR 35	Royal Building Products 850 East Highway 77 Newburn, TN 38059 800-232-5690 www.royalbuildingproducts.com
C-1	PVC Saddles	SDR 35 (8"x4" thru 12"x4")	GPK Products, Inc. 1601 43rd St. NW Fargo, ND 58102 800-437-4670 www.gpk-fargo.com
C-1	PVC Saddles	SDR 35 (8"x4" thru 12"x4")	Harco Harrington Corp. 3721 Cohen Place Lynchburg, VA 24501-5047 800-825-7094 www.harcofittings.com
C-1	PVC Saddles	SDR 35 (8"x4" thru 12"x4")	Royal Building Products 850 East Highway 77 Newburn, TN 38059 800-232-5690 www.royalbuildingproducts.com
D - Sanitary Sewer Manholes			
	Product Descriptions	Model	Manufacturer
D-1: PRECAST MANHOLE COMPONENTS			
D-1	Precast Manhole Sections		Jensen Precast 4801 E. Wyoming St. Tucson, AZ 85706 888-748-1698/520-748-1607 www.jensenprecast.com

**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

D-1	Precast Manhole Sections		Hayden Concrete Products 7801 W. Tangerine Rd. Marana, AZ 85658 520-682-2528 www.haydenconcrete.com
D-1	Precast Manhole Sections		Olson Precast Company 2750 Marion Dr. Las Vegas, NV 89115 702-643-4371 www.olsonprecastcompany.com
D-1	Joint Sealants for Precast Manhole Sections	Flexible Joint Gaskets ConSeal CS-102 or CS-202	Concrete Sealants, Inc. 9325 State Route 201 Tipp City, OH 45371 800-332-7325 www.conseal.com
D-1	Joint Sealants for Precast Manhole Sections	Polylok™ Butyl Sealant	Polylok™ Inc. 3 Fairfield Blvd. Wallingford, CT 06492 888-765-9565 www.polylok.com
D-1	Joint Sealants for Precast Manhole Sections	RAM-NEK® BUTYL-NEK®	Henry Company 999 N. Sepulveda Blvd. Ste. 800 El Segundo, CA 90245 310-955-9200 www.us.henry.com
D-1	Frames and Covers	24-inch and 30-inch Diameter No. 00122402 No. 00122404 No. 00122401 No. 00201011/00201127 No. 00201011/00201129 No. 00201012/00201123	East Jordan Iron Works (EJ) 301 Spring Street East Jordan, MI 49727 800-874-4100 http://americas.ejco.com/webapp/wcs/stores/servlet/TopCategories1_10054_13051_-1_Y
D-1	Frames and Covers	24-inch and 30-inch Diameter Model 1264, 1296	Neenah Enterprises, Inc. 2121 Brooks Ave. Neenah, WI 54956 800-558-5075 www.nfco.com
D-1	Frames and Covers	24-inch and 30-inch Diameter Model 1264, 1296	Deeter Foundry PO Box 29708 Lincoln, NE 68529 800-234-7466 www.deeter.com
D-1	Manhole Steps	Item# 004-501, Prod:PS1 Item# 004-501, Prod:PS1-PF Item# 004-505, Prod:PSI-DIS-DF Item# 004-506-DF, Prod:PSI-DIS-DF Item#004-516, Prod#PS3-PFC	M.A. Industries, Inc. 303 Dividend Drive Peachtree City, GA 30269 800-241-7761 www.maind.com
D-1	Manhole Steps		Lane International Corporation 10758 SW Manhasset Dr.

**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

			Tualatin, OR 97062 800-666-0076 www.laneinternational.com
D-2: CURED-IN-PLACE MANHOLE COMPONENTS			
D-2	Waterstop for Flexible Pipe Materials		Sika (AKA Green Streak) 3400 Tree Court Industrial Blvd. St. Louis, MO 63122 800-551-5145 www.usa.sika.com
D-2	Waterstop for Flexible Pipe Materials		A-Lok Products, Inc. 697 Main Street Tullytown, PA 19007 800-822-2565 www.a-lok.com
D-2	Waterstop for Flexible Pipe Materials	Link-Seal® Modular Seals (EPDM), Model S-316	GPT, An EnPro Industries Company 4990 Iris St. Wheat Ridge, CO 80033 303-988-1242 www.gptindustries.com
D-3: INTERIOR CORROSION PROTECTION SYSTEMS			
D-3	Interior Corrosion Protection Systems	Novocoat SC100, SL100	Ergon Armor PO Box 1639 Jackson, MS 39215-1639 877-982-7667 www.ergonarmor.com
D-3	Interior Corrosion Protection Systems	Raven Lining	Raven Lining Systems 13105 E. 61 st St. Suite A Broken Arrow, OK 74012 (800)324-2810 www.ravenlining.com
D-3	Interior Corrosion Protection Systems	Polymer Coating	Sauereisen 160 Gamma Drive Pittsburg, PA 15238 412-963-0303 www.sauereisen.com
D-3	Interior Corrosion Protection Systems	HJ3 Carbon Fiber	HJ3 Advanced Composites for Infrastructure Repair 2440 W. Majestic Park Way Tucson, AZ 85705 877-303-0453/520-322-0010 www.hj3.com
D-3	Interior Corrosion Protection Systems	ConShield	ConShield – Biotech Armor for Concrete 541 Tenth Street NW # 233 Atlanta, GA 30318 877-543-2094 www.conshield.com

**List of Approved Products for
Sanitary Sewer Conveyance Facilities**

D-3	Interior Corrosion Protection Systems	JPCI/Sewer Shield	JPCI Services 4702 E. Virginia St. Mesa, AZ 85215 480-986-1212 www.sewershieldonline.com
D-3	Interior Corrosion Protection Repair	Carboline Bitumastic 300M Coal Tar Epoxy (Case By Case Basis with Field Engineering Prior Approval)	Farwest Corrosion Control Company 12029 Regentview Ave. Downey, CA 90241 888-532-7937 www.farwestcorrosion.com
D-4: INTERNAL DROP MANHOLE SYSTEMS			
D-4	Internal Drop Manhole System	Inside Drop Bowls and SS Pipe Brackets	Reliner® /Duran Inc. 53 Mt. Archer Rd. Lyme, CT 06371 800-508-6001 www.reliner.com
D-5: NON-SHRINK GROUT			
D-5	Non-Shrink Grout		L&M Construction Chemicals 14851 Calhoun Road Omaha, NE 68152 800-362-3331 www.lmcc.com
D-5	Non-Shrink Grout		Metalcrete Industries 4133 Payne Ave. Cleveland, OH 44103 800-526-5602 www.metalcreteindustries.com
E - Pumping Stations			
	Product Description	Model	Manufacturer
E-1: SITE COMPONENTS			
E-1	Exterior Paint-Coating Systems for Stucco, Masonry, Wood, and Metal Applications	Varies	Sherwin Williams 8450 E. Broadway Blvd. 85710 800-474-3794/520-298-5545 www.sherwin-williams.com
E-1	Metal Framing System for Master Control Center	P3000, 1-5/8" Channel	Unistrut 2613 W. Birchwood Circle Mesa, AZ 85009 480-966-0049 swsales-az-nv.com www.unistrut.us
E-1	Safety Shower and Eyewash Systems	HAWS Model 8330FP	Haws Corporation 267 Winfield Circle Corona CA, 92880 951-371-8685 www.hawesco.com
E-2: PUMPS			
E-2	Duplex Submersible Wastewater Pumps	Varies	Flygt 1133 Westchester Avenue

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			White Plains, NY 10604 914-323-5700 www.flygt.com
E-2	Duplex Submersible Wastewater Pumps	Varies	Fairbanks Nijhuis 3601 Fairbanks Ave. Kansas City, KS 66106 (913) 371-5000 http://www.fairbanksnijhuis.com/
E-3: WET WELL COMPONENTS			
E-3	Fixed Ladder Systems	Safrail™ Fiberglass Ladder and Cage Systems	Strongwell 400 Commonwealth Ave. Bristol, Virginia 24201 276-645-8000 www.strongwell.com
E-3	Level Transducer	XPS-10/15 F Series	Siemens International 1954 Technology Drive Post Office Box 4225 Peterborough, Ontario K9J 7B1 (705) 745 2431 http://www.automation.siemens.com/w1/smpi-peterborough-home-11834.htm
E-3	Access Hatches	Aluminum, Stainless Steel, Single and Double Leafs	The Bilco Company PO Box 1203 New Haven, CT 06505 203-934-6363 www.bilco.com
E-3	Access Hatches	Aluminum, Stainless Steel, Single and Double Leafs	Halliday Products Inc. 6401 Edgewater Drive Orlando, Florida 32810 800-298-1027 www.hallidayproducts.com
E-3	Concrete Fasteners Inside Wet Wells	KB-TZ SS316 stainless steel expansion anchor	Hilti, Inc. 5400 South 122nd East Avenue Tulsa, OK 74146 800-879-8000 www.us.hilti.com
E-4: MANIFOLD PUMPING COMPONENTS			
E-4	Coating for Epoxy Metal Piping (Venting and Manifolds)	Bar-Rust 233H, Devthane 379	International Paint Pittsburg Airport Bus. Park Bldg 1 Suite 140, 181 Spring Run Rd Coraopolis, Pittsburgh, PA 15108 724-457-7657 www.international-pc.com
E-4	Exterior Alkyd Enamel Paint for Exposed Metal Piping (Vents and Manifolds)	Tnemec Series 69N Polyethylene Epoxy and 1075 Acrylic Polyethylene	Tnemec 6800 Corporate Drive Kansas City, MO 64120

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			www.tnemec.com
E-4	Bypass Port Connection – Cam and Groove Quick Disconnect	Kamlok Coupling, Type 316 Stainless Steel Metal	OPW Engineered Systems 2726 Henkle Drive Lebanon, Ohio 45036 800-547-9393 www.opwglobal.com
E-4	Pig Launching Cap-Grooved Coupling	AGS Flexible Coupling	Victaulic 4901 Kesslersville Road Easton, PA 18040 610-559-3300 www.victaulic.com
E-5: VALVES			
E-5	Air Valves	Wastewater Air/Vacuum Valves (SS T-316)	A.R.I. Optimal Flow Solutions MINA Southwest (Contact) cristi@simasw.com (Territory: Arizona) (480) 226-6480 (877) 536-6201 http://www.ariususa.com/
E-5	Check Valves	7800 Swing Check Valve	Val-Matic Valve & Manufacturing Corporation 905 Riverside Dr. Elmhurst, IL 60126 630-941-7600 www.valmatic.com
E-5	Check Valves	APCO Rubber Flapper Swing Check Valves (CRF), APCO Swing Check Valves (CVS)	DeZURIK 250 Riverside Avenue North Sartell, MN 56377 320-259-2000 www.dezurik.com
E-5	Isolation Valves	DeZURIK 100% Port Eccentric Plug Valves (PEF)	DeZURIK 250 Riverside Avenue North Sartell, MN 56377 320-259-2000 www.dezurik.com
E-5	Isolation Valves	DeZURIK GKU Unidirectional Knife Gate Valves	DeZURIK 250 Riverside Avenue North Sartell, MN 56377 320-259-2000 www.dezurik.com
E-6: INSTRUMENTS AND CONTROLS			
E-6	Magnetic Flow Meters	Sitrans F M MAG 5100 W	Siemens 80333 Munich Germany 49-89-636-00 www.siemens.com
E-6	Magnetic Flow Meters	Promag D, Promag L	Endress + Hauser, Inc. Greenwood, IN 46143 888-363-7377

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			www.us.endress.com
E-6	Pressure Gauges	Solfrunt® 4.5" Model 1980, Liquid Filled	Ametek U.S. Gauge 205 Keith Valley Road Horsham, PA 19044 215-674-1234 www.ametekusg.com
E-6	Pressure Gauges	Duragage Pressure Gauges – 4.5" Diameter	Ashcroft Inc. 250 East Main Street Stratford, CT 06614-5145 800-328-8258 www.ashcroft.com
E-6	Pressure Gauges	4.5" Diameter Analog Gauge	Perma-Cal Industries, Inc. 1742 Orbit Way Minden, NV 89423-4114 800-991-1357 www.perma-cal.com
E-6	Pressure Gauges/Annular Seal	Red Valve Series 40, 0-100 psi, Buna-N sleeve	Red Valve Company 600 N. Bell Ave. Bldg. 2 Carnegie, PA 15106 412-279-0044 www.redvalve.com
E-6	Pump Station Control Panel Box	NEMA Type 4X	Norberg 4237 S. 74th Ave Tulsa, OK 74145 800-739-9145 www.nema7.com
E-6	Pump Station Control Panel Box	NEMA Type 4X	Hoffman 2700 Boradbent Parkway NE Albuquerque, NM 87107 505-343-9580 www.hoffmanonline.com
F - Flow Management			
	Product Description	Model	Manufacturer
F-1: PIPE PLUGS			
F-1	Bypass Pipe Plugs	Pneumatic Pipe Plugs	The Spill Source 1598 Highway 16 North Denver, NC 28037 866-610-3596 www.spillsource.net
F-2: STOP GATES			
F-2	Stop Gates		Rodney Hunt-Fontaine Inc. 46 Mill St. Orange, MA 01364 800-448-8860 www.rodneyhunt.com

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G – Cured-In-Place Pipe (CIPP)			
	Product Description	Model	Manufacturer
G-1: CIPP			
G-1	Cured In Place Pipe	Insituform® CIPP	Insituform® 645 W. 24 th Street, Suite 200 Tempe, AZ 85282 480-446-0620 www.insituform.com
G-1	Cured In Place Pipe	CIPP	SAK Construction, LLC. 864 Hoff Road O'Fallon, MO 63366 636-385-1000 www.sakcon.com
G-1	Cured In Place Pipe	CIPP	Reline America 116 Battleground Ave. Avenue Saltville, VA 24370 866-998-0808 www.relineamerica.com