



**APPROVED MATERIALS LIST  
FOR USE ON NEW CONSTRUCTION OF POTABLE  
WATER AND RECYCLED WATER FACILITIES**

Submittal #: \_\_\_\_\_

VID Project #: \_\_\_\_\_

Project Name: \_\_\_\_\_

This form is part of the Approved Materials Checklist that follows. It is intended for use by developers or contractors constructing potable water or recycled water facilities within the Vista Irrigation District. An authorized representative of the developer shall **check a single box per item** for materials to be used in conjunction with the project, shall fill out this form in its entirety, shall sign the certification statement below and return to the District's Inspector or email. Contact the District if part numbers or models indicated within the Approved Materials Checklist are no longer available. District personnel will review this form and the Approved Materials Checklist and will separately attach review comments.

**DEVELOPER INFORMATION**

_____
Company Name
_____
Contact Person
_____
Mailing Address
_____
City , State, Zip
_____
Cell/ Office/ FAX
_____
Email

**CONTRACTOR INFORMATION**

_____
Company Name
_____
Contact Person
_____
Mailing Address
_____
City , State, Zip
_____
Cell/ Office/ FAX
_____
Email

**SUPPLIER INFORMATION**

_____
Company Name
_____
Contact Person
_____
Mailing Address
_____
City , State, Zip
_____
Cell/ Office/ FAX
_____
Email

I hereby certify that the specific products indicated within the attached Approved Materials Checklist represent a true list of materials to be used within the project indicated above, and I acknowledge understanding of the requirements that follow. **Any and all specific requirements detailed within the Standard Specifications shall apply to all materials proposed for use on this project.** When the notation "Full Submittal Required" or similar language appears within this Approved Materials List, or when required materials do not appear within this Approved Materials List, complete shop drawing submittals are required in accordance with the procedures detailed in the Standard Specifications. All materials supplied to the job site shall conform in all ways to the requirements of the Standard Specifications.

\_\_\_\_\_  
Signed By Developer or Contractor Representative

\_\_\_\_\_  
Printed Name of Developer or Contractor Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>ACTUATOR</b>	Electric Valve Actuators used for Valve Control on Motor Operated Valves. Shall conform to AWWA C542 <b>Full Submittal Required.</b>	Auma EIM Flo-Loc FloPak Pratt Rotork	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>ADAPTER, FLANGE COUPLING</b>	(6") and Larger, MJ x Flg. Steel or Ductile-Iron Construction without Anchor Pins, Epoxy Coated, 304 Stainless Steel Bolts and Nuts.	Dresser Dresser Ford FFCA Style JCM 301 Powerseal 3521 Powerseal 3528 Romac FCA501 Romac FC400 Smith-Blair 912 Smith-Blair 913	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>AIR/VACUUM VALVE, ENCLOSURE, PLASTIC</b>	(3/16") Wall Polyethylene with UV Stabilizer. (color selection subject to District Engineer approval)	Pipeline Products, Advantage Series VCAS 1830 & 2436	<input type="checkbox"/> <input type="checkbox"/>	
<b>AIR/VACUUM VALVE SUCTION SCREEN</b>	For use on (1") and (2") Air/Vacuum Installations. FIP Nylon Nut Style with 20 Mesh Stainless Steel Screen.	McMaster-Carr 9877K52 McMaster-Carr 9877K65 Northtown Hytech T. Christy's Vent Cap	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>ANODE, MAGNESIUM</b>	High or Standard Potential Anode with a Galvanized Steel Core Encased in a Square Magnesium Alloy Ingot Pre-packaged in a Permeable Cotton Cloth Bag Filled with a 75% Gypsum, 20% Bentonite, 5% Sodium Sulfate Mixture. Provide Ingot Weight as Specified on the Approved Plans. See Standard Drawing 8-1. <b>Full Submittal Required.</b>	Corrpro Galvatec Alloy T. Christy's	<input type="checkbox"/> <input type="checkbox"/>	
<b>ANODE, ZINC</b>	Pre-Packaged 6.8 Kg (30lbs) Min. Sacrificial Anode, #12 THHN Lead Wire, for the Protection of Copper Tubing. See Standard Drawings 8-14.	Calpico Hytech Pipeline Products CP-Z15	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>ANTI-SEIZE COMPOUND</b>	For use on Stainless Steel Bolts and Nuts.	Loctite Nevr Seize	<input type="checkbox"/> <input type="checkbox"/>	
<b>BACKFLOW PREVENTER</b>	Reduced Pressure Principal Type Assemblies as Approved by the USC List of approved Backflow Devices.	As Shown on List of Approved Backflow Prevention Assemblies	<input type="checkbox"/>	
<b>BALL JOINTS FLEXIBLE/ EXPANSION</b>	ANSI/ AWWA C153/ A21.53	EBAA Iron	<input type="checkbox"/>	

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<b>BOLTS AND NUTS, A307</b>	Hex-Head Machine, Cadmium/Zinc Plated, ASTM A307, Grade A Bolts and A307 Hex Nuts. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>BOLTS AND NUTS, A307</b>	Hex-Head Machine, Fluoropolymer Coated, ASTM A307, Grade A Bolts and A307 Hex Nuts. <b>Full Submittal Required.</b>	Tripac 2000 Blue	<input type="checkbox"/>	
<b>BOLTS AND NUTS, A307 BREAK AWAY, 5/8" FOR 4" AUTO AIR VACS.</b>	Auto Air Vac Flange Bolts, Hex Head Machine, Break Away Bolts, (5/8" x 3") and Nuts. Bolts Shall Incorporate a (23/64" x 1-7/8") Hole Drilled in the Bolt Shaft and Filled with Silicone Sealant. Bolts and Nuts Shall be Zinc Plated ASTM A307 Carbon Steel. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>BOLTS AND NUTS, A307 BREAK AWAY, 3/4" FOR 6" AUTO AIR VACS.</b>	Auto Air Vac Flange Bolts, Hex Head Machine, Break Away Bolts, (3/4" x 3-1/4") and Nuts. Bolts Shall Incorporate a (31/64" x 1-7/8") Hole Drilled in the Bolt Shaft and Filled with Silicone Sealant. Bolts and Nuts Shall be Zinc Plated ASTM A307 Carbon Steel. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>BOLTS, EXPANSION, DROP-IN ANCHOR</b>	(1/2") x (3") Stainless Steel Heavy Duty Anchor System with Anchor, Drop-in Sleeve and Epoxy Resin Adhesive Assembly with Hex Head Threaded Rod and Washer Capsule. For use on Air Valve and Water Test Station Enclosures.	Hilti HSLG-R Series	<input type="checkbox"/> <input type="checkbox"/>	
<b>BONDING AGENT, EPOXY</b>	Epoxy Resin Based Bonding Agent for Bonding New Mortar or Concrete to Existing Concrete.	Sika Sikadur 32 Hi-Mod	<input type="checkbox"/>	No Known Equal
<b>CASING END SEAL</b>	(1/8") Thick Styrene Butadiene Rubber Sheet End Seal. Use (1") Wide Stainless Steel Bands. Zippered End Seals with Stainless Steel Bands May Also be Used.	Calpico Pipeline Seal & Insulator Powerseal Raychem	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>CASING SPACER</b>	Stainless Steel Casing Spacer, Center Restrained, Position Type with PVC Liner and Non-metallic Anti-friction Runners. <b>Full Submittal Required.</b>	Advance Products & Systems Cascade BWM Co. SS-8 & SS-12 Calpico Cascade Pipeline Seal & Insulator Powerseal Raychem	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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<b>CATHODIC TEST STATION BOX</b>	25.4 Kg (54 lbs) Concrete Body with 5.4 Kg (12 lbs) Ductile Iron Lid and Lid Ring. "CP TEST" Shall Be Cast into the Lid in (1") Letters. For Cathodic Protection Test Stations, Anode Ground Beds and Insulated Flange Test Stations.	Brooks 1-RT series Farwest Type 1-RT T. Christy's	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>CATHODIC WELDING</b>	For Welding Cathodic Bond Wires to Steel Pipelines.	Cadweld	<input type="checkbox"/>	
<b>CHLORINE</b>	Liquid (Gas) or Sodium Hypochlorite Solution. <b>Chlorination Plan Submittal Required</b>		<input type="checkbox"/>	
<b>CLAMP, REPAIR</b>	Stainless Steel, Full circle, For ACP, PVC, DI or CI Pipe, Sizes (4") Through (20"). <b>Full Submittal Required.</b>	Cascade CR-2 Cascade CRT-2 Ford FS2 Powerseal 3122AS Romac SS2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>COATING, INTERNAL PIPE</b>	For Coating the Internal Pipe Lining for an Insulated Flange.	Aquatapoxy CCI Carboline Phenoline Polyclad 767 Devoe 223H Hydro-Pox Sherwin-Williams Macro Poxy 646	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Wet Application NSF 61 Dry Application Dry Application NSF 61 Wet Application Dry Application
<b>COATING, MASTIC</b>	Cold-Applied Coal Tar- or Epoxy-Based Single Component, Self-Priming, Heavy Duty Protective Exterior Coating for Buried Concrete.	Carboline Bitumastic 50WB Devoe Devtar 5AHS Polykem 938	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>COATING, WATERPROOF</b>	Epoxy Resin-Based Cementitious Trowel Grade Protective Waterproofing for Concrete.	Sika Top Seal 107 Sto CR 241	<input type="checkbox"/> <input type="checkbox"/>	
<b>COPPER DISC, SOLID</b>	For Plugging Corporation Stops When a Service is to be Abandoned.	A.Y. McDonald 76125 Ford Copper Disc Mueller H-15535-N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>CORPORATION STOP, BALLCORP</b>	Bronze MIP x FLARE Thread Ball Valve (T-Head only) (3/4") & (1") Full Opening.	A.Y. McDonald 4704B Ford FB 700 - NL Jones - E1929 Mueller B-25025 N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>CORPORATION STOP, BALLCORP</b>	Bronze MIP x FIP Thread Ball Valve (T-Head only), (1-1/2") & (2") Full Opening	A.Y. McDonald 3149B Ford FB 1700 - NL Jones - E1931 Mueller B-20046 N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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<b>COUPLING, C900 PVC DEFLECTION</b>	(4") through (12") Solid PVC for Obtaining Deflection Only. Provides 5 Degree Maximum Deflection.	<a href="#">North American Specialty Products</a>	<input type="checkbox"/>	
<b>COUPLING, C900 PVC CLOSURE OR REPAIR</b>	(4") through (12") Solid PVC for Closure or Repair.	North American Specialty Products Specified Fittings	<input type="checkbox"/> <input type="checkbox"/>	
<b>COUPLING, C900 PVC CLOSURE, DEFLECTION OR REPAIR</b>	(14") through (36") Solid PVC for Closure, 3 Degree maximum Deflection or Repair.	Specified Fittings Sceptor IPEX NACO Industries	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>COUPLING, GROOVED</b>	Use for Aboveground DI or Steel Pipe (4") or Larger.	Victaulic Style 44 Victaulic Style 77	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>COUPLING, HALF, STEEL</b>	Forged Steel Half Coupling, ASTM A105, 3000#, NPT Threads.	Bonney Forge	<input type="checkbox"/>	
<b>COUPLING, STRAIGHT FLEXIBLE</b>	(4") and Larger, Steel or Ductile-Iron Construction, Slip x Slip, Epoxy-Coated with 304 or 316 Stainless Steel Bolts and Nuts. For use on AC, PVC, DI, or Steel Pipe.	Dresser 253 (Style 38 or 138) Ford FC1 Powerseal 3501 Powerseal 3538 Romac 501 Smith-Blair 441	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>COUPLING, TRANSITION FLEXIBLE</b>	(4") and Larger, Steel or Ductile-Iron Construction, Slip x Slip, Epoxy Coated with 304 or 316 Stainless Steel Bolts and Nuts. For use on AC, PVC, DI, or Steel Pipe.	Baker Dresser 253 (Style 62) Ford FC2A Powerseal 3501 Ford FC2A Romac 4"-12" Macro HP Two Bolt Extended Range Coupling - <b>Preferred</b>  Powerseal 3538 Romac 501 Romac XR501 Smith-Blair 413	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>COUPLING, DI-ELECTRIC</b>	Merchant Plated Steel Coupling- Mycarta Connector.	Calpico F.H. Mahoney	<input type="checkbox"/> <input type="checkbox"/>	

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<b>CUSTOMER SIDE SHUT-OFF VALVE</b>	(3/4") and (1") Bronze Customer Shut-off (Ball Valve), Inlet Swivel Meter Nut x Outlet FIP Thread, Lockable Tabs, with Lever Handle.	A.Y. McDonald 6101MWHB Cambridge 3/4 212-F3T3H Cambridge 1 212-F4T4H Ford B13-332W w/ HT34 Ford B13-444W w/ HT34 Jones J-1908W Mueller B-24351-1-N (W/HDL)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>CUSTOMER SIDE SHUT-OFF VALVE</b>	(1-1/2") and (2") Bronze Customer Shut-off (Ball Valve), Inlet Meter Flange x Outlet FIP Thread, Lockable Tabs, with Lever Handle.	A.Y. McDonald 6101MWHB Cambridge 1 1/2 212-F6MF6H Cambridge 2 212-F7MF7H Ford BF13-666W w/HB-67S Ford BF13-777W w/HB-67S Jones E-1913W Mueller B-24337-N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>DISMANTLING JOINT</b>	Telescoping, Adjustable, Double-Flanged Fitting, with High Tensile Strength Zinc-Plated Tie Bars. NSF-61 Epoxy or Nylon Interior and Exterior Coating.	Dresser Style 131 Romac DJ400	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>DUST CAP, CAM &amp; GROOVE FITTING, LOCKING</b>	316 Stainless Steel Cam and Groove Fitting Dust Cap, (2") (4") or (6").	Dixon "Andrews" Type DC OPW Kamlock 700 Type DC-SS	<input type="checkbox"/> <input type="checkbox"/>	
<b>ELL, BURY, DUCTILE IRON</b>	(6") x (16") Ductile Iron Bury Ells, Long Radius, FLGxPO	Clow Sigma South Bay Foundry	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>EPOXY ADHESIVE</b>	High-Modulus, Low-Viscosity, Epoxy Resin-Based Adhesive Suitable for Grouting Bolts or Dowels.	Sika Sikadur 31 Sika Sikadur 35 Simpson Strong Tie FX-70-9	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	NSF Products
<b>EXPANSION JOINT</b>	For Water Pipeline Bridge Crossings.	Dresser Style 63 Onyx Valve 99 Powerseal 3563 Smith-Blair 611 Smith-Blair 612	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>EXPANSION JOINT, RUBBER</b>	Expansion Joints at Reservoir and Pump Station Inlet/Outlet Piping to Allow Lateral Movement and Isolate Vibration.	Mercer 500-700 Metraflex Metrasphere Red Valve Redflex J-1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>FITTING, DUCTILE IRON</b>	Flanged, Mechanical Joint or Push-on Tees, Bends, Crosses, Reducers, Adapters, etc., for Waterlines (4") and Larger. Manufactured per AWWA C110, C111 and C153.	Napco/Sigma Star Tyler	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>FITTING, GROOVED</b>	Grooved Ductile-Iron Fittings for Grooved End Pipes, (4") through (24").	G-B Victaulic Grinnell Tyler	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>FITTINGS, BRASS &amp; COPPER</b>	Various sizes & types of ell bends, tee, adaptors, cap bushings, unions, plug, couplings, nipples	Eckhart Lee Mueller Nibco	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>FIRE HYDRANT BREAK-OFF CHECK VALVE</b>	Break-off valves for Fire Hydrants <b>Full Submittal Required.</b>	Clow LBI 400A	<input type="checkbox"/>	
<b>FIRE HYDRANT CAP</b>	Screwed Brass or Ductile-Iron Cap for Fire Hydrant Hose Ports, (2-1/2") and (4").	Jones J-669	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>FIRE HYDRANT, (150 PSI)</b>	(6") Standard (150 PSI) Wet Barrel Bronze Fire Hydrants with Six-Hole Bolt Pattern. Color shall be Safety Yellow.	Clow 2050 Clow 2060 Clow 2065 Jones J3775 - San Marcos Reqm't Jones J3700 - San Marcos Reqm't Jones J3765	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>FLANGE RING GASKETS</b>	ANSI C111 Drop-in (1/16") thick	Calpico or Equal	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>FLANGE RING GASKETS</b>	ANSI B16.5 (1/8") thick (CML&C Piping)	Calpico or Equal	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>GASKET</b>	(1/8") Thick Full Face Aramid Fiber Bound with Nitrile. No Asbestos Content.	Calpico Garlock/Tripac 3000 & 5000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>GASKET, RUBBER, GASOLINE - RESISTANT</b>	Gasoline-Resistant Pipe Gaskets for Water Mains.	Newby	<input type="checkbox"/>	
<b>GATE WELL LID- (8")</b>	Ductile- or Cast-Iron Lid used for Valve Access, (8") Nominal Diameter Lid with a (6") Long Skirt and Lifting Slot. Well Installations. See Standard Drawing 5-3.	South Bay Foundry SBF (single lid) B6187 / 17lbs.	<input type="checkbox"/>	
<b>GATE WELL LID- (10")</b>	Ductile- or Cast-Iron Lid used for Valve Access, (10") Nominal Diameter Lid with a (4-1/2") Long Skirt and Lifting Slot. Well Installations. See Standard Drawing 5-3.	South Bay Foundry SBF (single lid) B6310 26lbs.	<input type="checkbox"/>	
<b>GATE WELL LID- (12")</b>	Ductile- or Cast-Iron Lid used for Valve Access, (12") Nominal Diameter Lid with a (6-3/8") Long Skirt and Lifting Slot. Well Installations. See Standard Drawing 5-3.	South Bay Foundry SBF (single lid) B6352 40lbs. <b><u>DISTRICT ONLY</u></b>	<input type="checkbox"/>	
<b>GATE WELL LID AND CAN ASSEMBLY</b>	Ductile- or Cast-Iron, Machined Frame with Ductile- or Cast-Iron Lid. Used for Valve Access. (8") Nominal Diameter Lid with a (6") Long Skirt and Lifting Slot. <b>Full Submittal Required.</b>	South Bay Foundry SBF1208N Cap and Can (2-piece) Assembly	<input type="checkbox"/>	
<b>GREASE</b>	For Bolt Corrosion Protection on Buried Bolts.	Sanchem NO-OX-ID	<input type="checkbox"/> <input type="checkbox"/>	
<b>GROUT</b>	Non-Shrink Cementitious Construction Grout for Crack Repair, Flooring Mortar, Dowel Grouting, Crack Sealing and General Binding.	Sika Sikagrout 212 Sto Epoxy Binder CR633 Sto Epoxy Gel CR635 Sto N-S Grout CR732	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>HUMIDISTAT</b>	120 Volt, 6.0 AMP, Single Phase with Adjustable Low and High Lockable Limit Stops. Adjustable Range of 20% to 70% Humidity and Suitable for Wet Locations. Full Submittal Required.		<input type="checkbox"/>	
<b>INSULATING BLANKET</b>	Insulating Blanket for Corrosion Interference Mitigation.	McMaster-Carr	<input type="checkbox"/>	



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<b>INSULATING COUPLINGS</b>	Insulating Couplings for Corrosion Protection of Pipelines.	Lochinvar Romac IC400 Romac IC501	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>INSULATING GASKET KIT</b>	Insulating Gasket Kits for Corrosion Protection of Pipelines.	Advance Products & Systems Calpico  Farwest Pipeline Seal & Insulator GasketSeal Pipeline Seal & Insulator LineBacker	<input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>ISOLATOR, VIBRATION</b>	Wire Rope Seismic Support for Pipelines for Isolating Vibrations and Shocks.	Enidine Steelpaw	<input type="checkbox"/>	
<b>JOINT RESTRAINT ASSEMBLY</b>	360-Degree Wedge-Type Restraint System for Ductile-Iron, PVC, Pipe, Sizes (4") Through (30") <b>Prior Approval of District Engineer is Required. Full Submittal Required.</b>	Ford Uni-Flange 1300 & 1350 Series Sigma PV-Lok PVM Smith Blair Series 111 Star Series 1000C & 1100C Romac 611 & 612	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>JOINT SEALING COMPOUND</b>	For use on Precast Vault and Manhole in Grooved Joints Between Sections.	A-Loc Butyl Lok	<input type="checkbox"/> <input type="checkbox"/>	
<b>LUBRICANT, PIPE GASKET</b>	Rubber gasket pipe lubricant for Use on PVC or Ductile-Iron Pipe Joints. ANSI/NSF-61 certified. Water soluble. Does not support bacteriological growth. Non toxic. Does not leave residue after assembly and flushing. Odorless, non-staining:adheres to wet and dry surfaces. Spreads easily and provides optimum lubricity.	T. Christy's Pro-Lube Proselect Pipe Joint Lubricant Seacord Ease-On Whitlam Blue Lube Oatey's Lube Duck Butter	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>MARKER, UTILITY</b>	Flexible Reinforced Polymer Glass Fiber Composite Strip Identification Marker. Branded or Customized Identification Markings for Pipelines and Appurtenances May Be Required.	Carsonite CBM-375 T. Christy's	<input type="checkbox"/> <input type="checkbox"/>	
<b>METER ADAPTER</b>	For Replacing Large Meters with Smaller Meters. Bronze shall conform to ASTM B62, Fittings shall conform to ASTM B75 or B152, and ANSI B16.22.	A.Y. McDonald 10J Series Cambridge 440 Series Ford A Series Jones E128H Mueller H10889-N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>METER BOX, POLYMER</b>	(17" x 30") Polymer Meter box with 1-Piece Lid for (2") & (1-1/2") Water Services. Gray for Potable Water use, Purple for Recycled Water use.	Armorcast A6001640PCX12 Box with 1 -Piece 20K Lid # A6001947T	<input type="checkbox"/>	
<b>METER BOX, POLYMER</b>	(13"x 24"x 12") Polymer Meter box Base rated 20K and 1-Piece Lid For (1") water services. Gray for Potable Water use.	Armorcast A6001946PCX12 Box with 1 -Piece 20K Lid # A6001969	<input type="checkbox"/>	

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<b>METER BOX, POLYMER</b>	(13" x 24" x 12") Gray Polymer Box w/Solid Grey Polymer Lid w/ Pickhole, No Lid Hook & VID Engraving. For all meter sizes (1") or smaller with a (1") Services Lateral.	DFW1324CH4-12-BODY DFW1324C-4P<>VID-LID ( <b>Bee Proof</b> ) <b>Preferred</b>	<input type="checkbox"/> <input type="checkbox"/>	
<b>METER BOX, POLYMER</b>	(33" x 21" x 12") Gray Polymer Box w/Solid Grey Polymer Lid w/ Pickhole, No Lid Hook & VID Engraving. For all meter sizes (2") or smaller with a (1 1/2" or 2") Service Lateral.	DFWPW6C4-12-BODY DFWPW6C-4P<>VID-LID ( <b>Bee Proof</b> ) <b>Preferred</b>	<input type="checkbox"/> <input type="checkbox"/>	
<b>METER FLANGE</b>	Bronze Meter Flanges for (1-1/2") and (2") Meters with Slotted Holes.	A.Y. McDonald 7610F Cambridge 1 1/2" 424NL-6 Cambridge 2" 424NL-7 Ford CF Series Jones E129	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>METER FLANGE GASKET</b>	(1/8") Rubber Drop-in (1-1/2") & (2")	Romac Ford	<input type="checkbox"/> <input type="checkbox"/>	
<b>MORTAR, REPAIR</b>	Two-Component, Low Shrinkage, Cementitious Mortar with High Compressive and Bonding Strength.	Sika Sika Top 122 Sika Sika Top 123 Sto 80246	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>NOZZLE, WELD-ON</b>	Weld-on Nozzle with Reinforcing Pad or Collar for Connection to CML&C Steel Pipe. ASTM A-53B (1/4") Minimum Thickness Seamless Pipe, Mortar Lined and Coated with AWWA C207 Flange. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>PAINT, POLYESTER POWDER</b>	TGIC Polyester Powder For Air Valve and Water Test Station Enclosures.	Tiger Dylac Series 49	<input type="checkbox"/>	
<b>PAINT, SILICONE ALKYD ENAMEL</b>	One-Component, Minimum 46% Solids (by Volume), 30 % Silicone Content (by Volume), High Gloss, VOC Compliant Industrial Grade Paint.	Carboline Carbocoat 30 Porter Paint Porter Guard 2200 Sherwin-Williams Steel Master 9500	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>PENETRATION SEALS, INTERLOCKING</b>	Mechanical Link Type Interlocking Vault, Casing and Building Penetration Seals.	Advance Products & Systems Interlynx Link Seal	<input type="checkbox"/> <input type="checkbox"/>	
<b>PIPE, COPPER TUBING</b>	(1") Type K Soft Seamless Rolled Tubing, (2") Type K Soft Seamless Straight	Cerro Lee Mueller Streamline Co	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

**APPROVED MATERIALS LIST**  
**FOR USE ON NEW CONSTRUCTION OF POTABLE WATER AND RECYCLED WATER FACILITIES**

ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>PIPE, DUCTILE IRON</b>	For Waterlines (4") and Larger Manufactured per AWWA C111, C115, C150, and C151. <b>Full Submittal Required.</b>	American Pipe Griffin U.S. Pipe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>PIPE, PVC C900/909 DR-14</b>	For Waterlines (4") through (12") and (8") Gate Wells. Manufactured per AWWA C900/C909. Class (305) DR14 Only.	Certainteed (Now NAPCO) Diamond Plastics IPEX JM Eagle North American Pipe Corp. North American Specialty Products VinylTech	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>PIPE, PVC C900 DR-18</b>	For Waterlines (14") through (48"). Manufactured per AWWA C905, DR 18.	Certainteed (Now NAPCO) Diamond Plastics North American Specialty Products IPEX JM Eagle North American Pipe Corp. VinylTech	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>PIPE, STEEL, CEMENT-MORTAR LINED AND COATED (CML&amp;C)</b>	Steel Cylinder (CML&C), per AWWA M11. (1/4") Minimum Wall Thickness. Steel Pipes Used for Recycled Water Installation are to be Identified Per District Requirements. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>PLASTIC ENCASEMENT</b>	8-mil Thick Polyethylene Encasement Sleeve for Ductile Iron Pipe (DIP) per AWWA C105 and Recycled PVC, CMC/L, or DIP Non-Purple Water Pipe. Clear Sleeve for Potable Water, Purple Sleeve for Recycled Water.	Northtown Co. T. Christy's	<input type="checkbox"/> <input type="checkbox"/>	
<b>PLASTIC WRAP</b>	8-mil Thick Polyethylene Encasement for Buried Fittings and Valves. Clear Sleeve for Potable Water, Purple Sleeve for Recycled Water.	Northtown Co.	<input type="checkbox"/> <input type="checkbox"/>	
<b>PRIMER, WAX TAPE</b>	Surface Primer for Underground Application of Petrolatum Wax Tape. AWWA C217	Denso Trenton Tem-Coat	<input type="checkbox"/> <input type="checkbox"/>	
<b>PROTECTOR POST, STEEL</b>	(4") Diameter (0.250") Wall Galvanized A-120 Steel Pipe, Concrete Filled with (4") Galvanized Fence Post Cap.		<input type="checkbox"/>	

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>REFERENCE ELECTRODE, COPPER SULFATE</b>	High or Standard Potential Electrode with PVC Pipe Housing Pre-Packaged in a Permeable Cotton Cloth Bag Filled with a 50% Gypsum/50% Powered Bentonite Mixture. Electrode Shall have a Design Life of 15 Years with a Stability of +/- 5 Millivolts under a 3.0 Microampere Load. Provide Electrode with Integrally Attached #14 AWG HMW/PE Insulated Wire. <b>Full Submittal Required.</b>	Staperm Reference Electrode Model # 1 CU-1-UG	<input type="checkbox"/>	
<b>ROCK, CRUSHED</b>	Washed (3/8") and (3/4") Crushed Rock. (3/8") for Use in Meter Boxes Only. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>SEALANT</b>	Chemical Grout for Joint Sealing.	3M Scotch Seal	<input type="checkbox"/>	
<b>SEISMIC COUPLING</b>	Flexible Expansion Joints for Pipelines, Reservoirs and Pump Stations. <b>Full Submittal Required.</b>	EBAA Iron Flex-Tend Romac FlexiJoint Star Pipe Starflex 5000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>SEISMIC SENSOR DEVICE</b>	Seismic Sensors for Reservoirs and Pipelines. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>SERVICE SADDLE FOR ACP AND CI PIPE</b>	Cast Brass ASTM B62 Body with Silicone Bronze Double Straps, IP Outlet Sizes (1") and (2").	A.Y. McDonald 3826 Cambridge 810 Series Ford 202B Jones J-979 Mueller BR2B Series Romac 202B	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>SERVICE SADDLE FOR PVC C900 PIPE</b>	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IP Thread Outlet for Saddle Sizes (1") and (2") Installed on Pipe Sizes (4") through (12").	A.Y. McDonald 3846 Cambridge 812 Series Ford 202BSD Jones J-969 Mueller BR2S Series Romac 202BS Smith-Blair 325	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>SERVICE SADDLE FOR PVC C900 PIPE SIZE 14" AND LARGER</b>	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IPT Thread Outlet for Sizes (1") and (2") Installed on Pipe Sizes (14") and Larger <b>Full Submittal Required.</b>	Ford 202BS Jones J-969 A.Y.McDonald 3846	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>TAG, BRASS IDENTIFICATION</b>	(1") Diameter, 18 Gauge Brass with (3/16") Die-Stamped Letters and Numbers, Suitable for Attachment to Cathodic Protection Wires using a Nylon Zip Tie.		<input type="checkbox"/>	
<b>TAPE, OUTER WRAP</b>	Adhesive Plastic Outer Wrap for Wax Petrolatum Tape in Underground Applications.	Trenton Polyply	<input type="checkbox"/>	

**APPROVED MATERIALS LIST**  
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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>TAPE, UTILITY</b>	10 to 50 Mil x (2") Wide General Utility Tape for Corrosion Protection of Aboveground and Underground Pipes and Fittings.	3M Scotchwrap 50 3M Scotchwrap 51 Calpico Northtown Polyken 900 T. Christy's	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>TAPE, WARNING/ IDENTIFICATION</b>	(6") wide, Warning/Identification (Non-Metallic) Marking Tape for Buried Facilities.	Calpico Type 1 Northtown T. Christy's Type 1 Terra Tape Standard 250	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>TAPE, WARNING/ IDENTIFICATION FOR RECYCLED IRRIGATION</b>	(3") wide, Warning/Identification (Non-Metallic) Marking Tape for Buried Irrigation Pipelines, Purple Color with continuous warning "CAUTION RECLAIMED WATER MAIN BURIED BELOW."	Calpico Type 1 . Northtown T. Christy's Type 1 Terra Tape Standard 250	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>TAPE, WAX ABOVEGROUND</b>	Petrolatum-Saturated Synthetic Fabric Tape for use on Aboveground Couplings, Flanges, Fittings, etc.	Trenton #2 Wax-Tape	<input type="checkbox"/>	
<b>TAPE, WAX UNDERGROUND</b>	Petrolatum-Saturated Synthetic Fabric Tape for use on Underground Couplings, Flanges, Fittings, etc. Primer and Outer Wrap Required.	Carboline Densyl Tape Trenton #1 Wax-Tape	<input type="checkbox"/> <input type="checkbox"/>	
<b>TAPPING SLEEVE FOR AC, CI, DI, &amp; PVC PIPE</b>	Fabricated Steel Tapping Sleeve for (4") Through (12") Wet Taps. Epoxy Coated with Stainless Steel Bolts and Nuts.	APAC 500 Series Ford FTSC JCM 412 Mueller H-615 Powerseal 3460 Romac FTS-420 Smith-Blair 622	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>VALVE, AIR RELEASE, (250 PSI)</b>	Combination Air Release/Vacuum Valve, Nylon Base with Mesh Outlet (2") NPT	A.R.I. D-040	<input type="checkbox"/>	
<b>VALVE, AIR RELEASE, (300 PSI)</b>	Pressure Air Release Valve, Ductile-Iron ASTM 536 60-40-18 Body, Fusion Bonded Epoxy Coating, All Operating Parts made of Corrosion-Resistant Materials (Bronze, E.P.DM. Rubber, Stainless Steel). Suction Screens Required (1") through (3") NPT, (4" and 6") Flanged. <b>Full Submittal Required.</b>	A.R.I. D-060-C	<input type="checkbox"/>	
<b>VALVE, ANGLE BALL</b>	(1") Bronze Angle Ball Meter Valves. (1") flared with swivel meter nut and lock wing	A.Y. McDonald 4602B Ford BA23 Jones -E 1964W Mueller B24255 N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, ANGLE BALL FLANGE</b>	(1-1/2") & (2") Bronze Angle Ball Meter Valves with meter flange x FIP double drilled and lock wing.	A.Y. McDonald 4604B Ford BFA13 Jones -E 1974W Mueller B-24286 N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, ANGLE BALL</b>	2" FIP x MIP <b>Used for 2" Air Vent &amp; Blow Off Assemblies.</b> Vertical inlet and outlet with easy access to the tee-head. 300PSI working Pressure and a Full 360 Degree tee-head Rotation.	Ford - BLA18-777-TA-NL	<input type="checkbox"/>	
<b>VALVE, BALL, (150 PSI)</b>	(1/4") through (2"), FIP Threads with Handle.	Nibco 585 Series Watts WBV-3	<input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, BALL, (150 PSI)</b>	(4") and Larger, Rubber Seated, AWWA C507. Fusion-Bonded Epoxy Lined and Coated Interior/Exterior, Holiday Free. Valves shall meet ASTM A536, Grade 65/45/12 for Ductile Iron. <b>Full Submittal Required.</b>	Pratt	<input type="checkbox"/>	
<b>VALVE, BUTTERFLY (150 PSI)</b>	(14") and Larger, AWWA C504, Class 150B with Ductile Iron Body. Valves shall meet ASTM A536, Grade 65/45/12 for Ductile Iron. Fusion-Bonded Epoxy Lined and Coated Interior/Exterior, Holiday Free. Class D or E Flange x Flange Ends. <b>Full Submittal Required.</b>	Dezurik AWWA AVK Series 816 Pratt Groundhog	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>VALVE, BUTTERFLY (150 PSI)</b>	(4") through (12"), AWWA C504, Class 150B with Ductile Iron Body. Valves shall meet ASTM A536, Grade 65/45/12 for Ductile Iron. Fusion-Bonded Epoxy Lined and Coated Interior/Exterior, Holiday Free . Class D or E Flange x Flange Ends. <b>Full Submittal Required.</b>	Dezurik AWWA AVK Series 816	<input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, BUTTERFLY, WAFER (150 PSI)</b>	(14") and Larger, Thermosetting or Fusion Bonded Epoxy Coated and Lined. Valves shall meet ASTM A536, Grade 65/45/12 for Ductile Iron. <b>District Approval and Full Submittal Required.</b>	Crispin K-Flo 500 Series AVK Series 816	<input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, BUTTERFLY (250 PSI)</b>	(14") and Larger, AWWA C504, Class 250B with Ductile Iron Body. Valves shall meet ASTM A536, Grade 65/45/12 for Ductile Iron. Fusion-Bonded Epoxy Lined and Coated Interior/Exterior, Holiday Free. Class F Flange x Flange Ends. <b>Full Submittal Required.</b>	Dezurik BAW 250 Mueller Linesal XP 250	<input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, BUTTERFLY (250 PSI)</b>	(4") through (12"), AWWA C504, Class 250B with Ductile Iron Body. Valves shall meet ASTM A536, Grade 65/45/12 for Ductile Iron. Fusion-Bonded Epoxy Lined and Coated Interior/Exterior, Holiday Free. Class F Flange x Flange Ends. <b>Full Submittal Required.</b>	Dezurik AWWA Mueller Linesal XP 250	<input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, CHECK</b>	(150 & 300 PSI), Slanting Disc Check Valve (4") and Larger. <b>Full Submittal Required.</b>	APCO 6000, 6000A Model Crispin TD Series Val-Matic Series 9000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, COMBINATION AIR RELEASE AND AIR/VACUUM, (2")</b>	Combination Air Release/Vacuum Valve, Nylon Base with Mesh Outlet (2") NPT	A.R.I. D-040	<input type="checkbox"/>	
<b>VALVE, COMBINATION AIR RELEASE AND AIR/VACUUM, (4") AND LARGER</b>	Pressure Air Release Valve, Ductile-Iron ASTM 536 60-40-18 Body, Fusion Bonded Epoxy Coating, All Operating Parts made of Corrosion-Resistant Materials (Bronze, E.P.DM. Rubber, Stainless Steel). Suction Screens Required (1") through (3") NPT, (4" and 6") Flanged. Full Submittal Required.	A.R.I. D-060-C	<input type="checkbox"/>	

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>VALVE, GATE, RESILIENT WEDGE (RWGV)</b>	(4") Through (12"), Non-Rising Low Zinc Bronze or Stainless Steel Stem, Ductile-Iron Body and Bonnet, Stainless Steel Trim Bolts, Encapsulated Wedge per AWWA C509 or C515 with 8-mil or greater, Fusion-Bonded Epoxy Lined and Coated Interior/Exterior, Holiday Free. Manufactured to AWWA C509 or C515, with (250 PSI) Rating.	American FC, Series 2500 AVK 45 Clow 2639 F6100 Series Kennedy KSRW-8000 Series Mueller 2362 M&H 4067 & 7000 Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, GATE, RESILIENT WEDGE, (14") AND LARGER</b>	(14") Through (24"), per AWWA C509, Ductile Iron Body, Stainless Steel Trim Bolts, Encapsulated Wedge, Non-Rising Stem, 8-mil or greater, Fusion-Bonded Epoxy Lined and Coated Interior/Exterior, Holiday Free. Minimum (200 PSI) Rating. <b>District Approval and Full Submittal Required.</b>	Clow Model 2368 Series F-6100 Kennedy KSRW-7000 Series M&H 7000 Series Mueller A-2361 AVK series 55	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, PRESSURE REDUCING</b>	For Water Main Pressure Reducing, (4") through (16"). <b>Full Submittal Required.</b>	Ames 910/610 Series Cla-Val 90G-01 Watts ACV 115E Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE, PRESSURE REGULATING to (150 TO 249 PSI)</b>	(3/4") through (2"). <b>District Approval and Full Submittal Required</b>		<input type="checkbox"/>	
<b>VALVE, PRESSURE REGULATING to (250 TO 400 PSI)</b>	(3/4") through (2"). <b>District Approval and Full Submittal Required</b>		<input type="checkbox"/>	
<b>VALVE, PRESSURE RELIEF AND SUSTAINING</b>	For Water Main Pressure Reducing and Sustaining, (4") through (16"). <b>Full Submittal Required.</b>	Ames 920/620 Series Cla-Val 50-01 Cla-Val 650-01 Watts ACV 116E Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VALVE STEM EXTENSION, STEEL</b>	Used when valve nut is 5' or deeper. Round or Square (1-1/2") Diameter Steel Rod, Welded Construction, Hot Dipped Galvanized with Top Centering Ring and AWWA (2") Operating Nuts Top and Bottom. Use for Extensions Longer Than (8').	Pipeline Products SX-900 T. Christy's	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	



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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>VAULT ACCESS DOOR, ALUMINUM</b>	Aluminum Vault Access Door, Dual Door Configuration, Spring Loaded and Counter Balanced, with Inset for Padlock. H-10 Parkway or H-20 Street Loading Required. <b>Full Submittal Required.</b>	Bilco Type JD-AL USF Fabrication THS, THD	<input type="checkbox"/> <input type="checkbox"/>	
<b>VAULT EXHAUST FAN</b>	Electric, 110 Volt, Single Phase, Squirrel Cage Type, Suitable for Wet Locations. Size for 6 Volume Changes per Hour. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>VAULT GROUND FAULT RECEPTACLE</b>	125 Volt, 20 AMP, Duplex, with Gasketed, Self-Closing Aluminum Cover. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>VAULT LADDER EXTENSION</b>	Vault Ladder Extension, Retractable, (48") Extension. <b>Full Submittal Required.</b>	Bilco Ladder-Up Pipeline Products VL-100	<input type="checkbox"/> <input type="checkbox"/>	
<b>VAULT LADDER, ALUMINUM</b>	High Strength 6061-T6 Aluminum Alloy (1") Diameter Solid Rungs and (18") Between Side Rails. Ladder to Exceed Requirements of CAL/OSHA Standards.	Alaco Model 560	<input type="checkbox"/>	
<b>VAULT LADDER, FIBERGLASS</b>	Fiberglass Reinforced Plastic, (1") Solid Square Rungs with Grit Safety Surface, Ultraviolet Inhibitors. (30,000 PSI) Tensile Strength with a 3 to 1 Safety Factor per OSHA Requirements. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>VAULT LIGHT SWITCH</b>	120 Volt, 20 AMP, Single Pole, Spring Loaded with Clear Waterproof Cover. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>VAULT LIGHTS</b>	Non-Metallic Incandescent Vaportite, 120 Volt, 6.0 AMP, Wall or Ceiling Mounted, with 100 Watt Bulb with Cage and Glass Protector for Bulb. Suitable for Wet Locations. Two Light Fixtures Per Vault. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>VAULT LOAD CENTER</b>	100 AMP, Double Pole, 1 Phase, 3 Wire, Solid Neutral 120/240 VAC with Plug-In GFI Breaker. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>VAULT SUMP PUMP</b>	Automatic Submersible, Minimum 1/2 HP, 115 Volt, 60 Hz, 1 Phase, Ball Bearing Motor with Thermal Overload Protection. Either bronze or Epoxy Coated Cast Iron Body. <b>Full Submittal Required.</b>		<input type="checkbox"/>	
<b>VENT VAULT</b>	6 inch PVC Schedule 40 pipe with Schedule 40 socket weld fitting. 304 stainless steel insect screen.	Certainteed Pacific Western	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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ITEM	DESCRIPTION	MANUFACTURER	SELECT	COMMENTS
<b>METER VAULT, 3" THRU 10" METERS</b>	(3' x 6') Sections - (24") high Lid-Bilco full opening Aluminum w/hinged meter reading lid, H-10 loading	Carson/Brooks Quickset 7100 Utility	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>VAULT, PRECAST CONCRETE</b>	For Pressure Reducing Stations, Reservoir Altitude Valves, etc. Various Sizes. Precast Base, Sections and Top with Aluminum Two Leaf Access Door. <b>Full Submittal Required.</b>	Brooks J & R San Diego Precast Utility Vault	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>WATER TEST STATION ENCLOSURE</b>	Aluminum Housing	Pipeline Products WTS858 Koraleen	<input type="checkbox"/> <input type="checkbox"/>	
<b>WIRE, TRACER</b>	#10 AWG Solid Copper UF Type Wire, with Cross Linked Polyethylene Insulation. White	Paige Regency Wire	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>WIRE, TRACER CONNECTOR</b>	Direct Bury Silicone-Filled Capsule Tube with Standard Wire Nut or Silicone-Filled Wire Nut Connectors for Tracer Wire Connections.	3M DBR-6 King 4 King 5 King 6	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	