

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Air Release And Vacuum Relief Valve	1” and 2” air release and vacuum relief valve, body and cover reinforced nylon, DI or stainless steel, stainless steel or polypropylene float and plug and per AWWA C512.	APCO Cla-Val Valmatic A.R.I.
Air and Vacuum Valve, Enclosure	12 gauge steel with clam shell hinged construction. 1” and 2” Air Vacuum Valve sizes, use: 20" x 36" Enclosure Powder Polyester Coated Colored: Sandstone or Low Density Polyethylene Enclosure with UV inhibitors. Colored: Sandstone	Pipeline Products: VCDD, VCAS-2436-SM Armorcast: P6002002-SND
Air and Vacuum Valve, Insulation Jacket (for areas subject to freezing weather)	To protect A.R.I. air valves from freezing. Jacket is manufactured from expanded polyurethane foam in two halves that fit around air valve and are held in place with zip ties. An extension to the drain elbow at the top of the valve is provided to allow drainage away from insulating jacket.	A.R.I.: D-040 1” Freeze Jacket A.R.I.: D-040 2” Freeze Jacket
Backflow Preventer (Reduced Pressure Principle Type)	Moderate to high hazard backflow preventer approved by the USC Foundation for Cross-Connection Control & Hydraulic Research.	Any manufacturer device on the USC list of Approved Backflow Prevention Assemblies.
Backflow Preventer (Double check and/or double check detector assembly type)	Generally fire detector check, or low hazard backflow preventer. Approved by the USC Foundation for Cross-Connection Control & Hydraulic Research.	Any manufacturer device on the USC list of Approved Backflow Prevention Assemblies.
Casing End Seal	1/8” thick styrene butadiene rubber sheet end seal. Use one 1” or two ½” wide stainless steel bands.	Advances Products and Systems Calpico CCI Pipeline Systems Ion Cathodic Products & Technologies

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Casing Spacer with Restrained Joints	Polyethylene casing spacer, center restrained, position type with PVC liner, non-metallic, and anti-friction runners.	Advance Products & Systems Cascade Water Works Calpico CCI Pipeline Systems Ion Cathodic Products & Technologies
Coating, Cold Applied Wax Tape	Petrolatum wax primer, cold applied petrolatum wax tape, and outerwrap applied to the exterior surface of buried steel pipe. Primer and tape shall be from the same manufacturer. Primer thickness = 3mil Tape thickness = 40mil Outer wrap = 1mil plastic	Trenton: #1 Wax-Tape Tapecoat TC Envirotape Wax Tape Denso
Coating, Fusion Bonded Epoxy	Baked on epoxy coating for protecting pipes, valves and pumps from corrosion.	3M Scotchkote: 206N, 134W, 323(patch)
Coating, Liquid Epoxy	Liquid applied epoxy for use upon GSWC approval, when baked on epoxy coating is not practical.	Tnemec: Pota-Pox Plus L140 3M Scotchkote: 323
Coating, Mastic (for buried metal)	Cold applied coal tar or epoxy based single or double component, self-priming, heavy duty protective exterior coating for buried metal.	Carboline: Bitumastic 50 Devoe: Devtar 5A Tnemec: 46-465, HB Tnemecol Tnemec: 46H-413, HB Theme Tar
Coating, Waterproof (for concrete)	Epoxy resin based cement trowel grade protective waterproofing for concrete.	SikaTop: Seal 107 Sto CR 241
Coatings, Welded Steel Reservoir (interior) (All interior coatings shall be listed in NSF Standard 61 or UL Standard 61)	Interior prime coat (AWWA D102, Inside Coating System No. 2). Shop primers shall be red. Field prime and top coats shall be white.	Tnemec: N140F, Pota-Pox Plus Sherwin Williams Company: Macropoxy 646 PW
	Joint sealant similar or equal to Federal Specification TT-S-230.	Sikaflex: 1-A

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Coatings, Welded Steel Reservoir (exterior)	Exterior prime coat and exterior finish coat (AWWA D102, Outside Coating System No. 5).	Tnemec: N140F, Pota-Pox Plus Sherwin Williams Company: Macropoxy 646 PW
	Exterior Prime Coat	Tnemec: Series 91 Hydro-Zinc, Series 69, L140F Devoe: Bar-Rust 233H Buff
	Exterior joint sealant shall be flexible polyurethane or polysulfide product similar or equal to Federal Specification TT-S-00230C, Type II, Class A (non-sag).	Flexible polyurethane or polysulfide product between bottom of shell and concrete ringwall.
Corporation Stop, CC X Compression No-Lead	Bronze CC X Compression connection ball valve corp. for 1" and 2".	Ford: FB1000-4, FB1000-7Q Jones: E-1937SG Mueller Co.: B-25008N AY McDonald: 74701 BQ
Corporation Stop, MIP X MIP No-Lead	Male Iron Pipe X Male Iron Pipe ball valve corp. for 1" and 2".	Ford: FB500-4-NL, FB500-7-NL Jones: J-1943 AY McDonald: 73131 B
Coupling, Compression X Compression No-Lead	Three part compression coupling (both ends) for 1" and 2" copper pipe.	Ford: C44-Q Jones: E-2609SG Mueller Co.: H-15403N AY McDonald: 74758 Q
Coupling, Flange Adapter	3" to 16", Mechanical X Flange ductile iron or steel construction, without anchor pins, epoxy coated, 304 stainless steel bolts and nuts.	Ford: FFCA Romac: FCA501, FC400 Smith-Blair: 912, 913 911, 920 JCM Industries: 301,303 Krausz: Hymax Flange Adapter
Coupling, High Deflection (C900 PVC) (for same diameter pipe)	4" to 12-inch PVC for deflection only.	North American Pipe Corporation
Coupling, Closure or Repair (C900 PVC) (for same diameter pipe)	4-inch to 12" for C900 PVC pipe for closure or repair.	North American Pipe Corporation

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Coupling, Straight	4" and larger, DI or steel, epoxy coated with T304 stainless steel bolts and nuts. For use on steel pipe.	Ford: FC4, FC2A Romac: 501, Macro HP, 400 Smith-Blair: 411, 441, 421, 422 JCM: 201, 210, 212 Krausz: Hymax
Coupling, Restrained, Straight	4" to 12". For use on PVC, DI or HDPE pipe.	Krausz: Hymax Grip Romac: Alpha Smith-Blair: 471, 472, 473
Coupling, Restrained, Flange Adapter for PVC	C900 Class 235 and Class 305, IPS 4" to 12", Class 160 3" 12".	Romac: Alpha FC, RFCA for PVC pipe Ford: RFAP Smith-Blair: 911, 920
Coupling, Restrained, Flange PVC, DI, Steel, HDPE	4" to 12". For use on PVC, DI, steel or HDPE pipe.	Krausz: Hymax Grip Flange Adaptor Ford: RFAD (DI), RFAP (PVC) Romac: RFCA Smith-Blair: 911, 920
Coupling, Transition	4" and larger, DI, epoxy coated with T304 stainless steel bolts and nuts. For use on AC, PVC, DI or Steel Pipe.	Ford: FC2A, FC2W Romac: 501, XR 501, Macro HP Smith-Blair: 441, 442, 461, 462 JCM 212, 241, 242 Krausz Hymax
Doors, Fiber Reinforced Plastic (FRP)	Doors to be used at chemical or disinfection buildings that resist corrosion.	Simon Door FIB-R-Door
Ell, Compression Type No-Lead	1" and 2" bronze Ell Compression X Compression for copper pipe.	Ford: L44-44-NL, L44-77-NL Jones: E-2611SG Mueller Co.: H-15526N AY McDonald: 74761 Q
Emergency Shower And Eyewash	For use at chemical and disinfection facilities. Used outdoors; All components shall be stainless steel.	Speakman: SE-626
Flexible Expansion Joints	Used for connections to tanks and other fixed structures.	EBAA Iron: Flex-Tend Force Balanced Romac: FJ Restraint Flexible Expansion Joint Flexicraft General Rubber

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Fire Hydrant 200 psi	WET BARREL DI: 6” Standard 200 psi wet barrel DI fire hydrant. Epoxy coated interior, shop primed and painted exterior with six-hole bolt pattern 1½” pent nut, iron caps per AWWA C550. In Culver City only: Clow 950 with 1 ¾” pent nut and CI caps.	<u>Region 1</u> AVK: 2470, 2490 Clow Valve Co.: 950 (DI), 960 (DI) American: Waterous Pacer WB-67-250 Jones: J-3700 (Bronze), J-4040 (DI), J- 4060 (DI) <u>Region 2</u> Jones: J-3700R (Bronze), J-4040 (DI) Clow Valve Co.: 950 (DI), 2050 (Bronze) <u>Region 3</u> Clow Valve Co.: 950 (DI), 2050 (Bronze) Jones: J-3700 (Bronze), J-4040 (DI) Waterous Pacer WB-67 Mueller Co.: Super Centurion 250 A-423
	WET BARREL BRONZE: 6” Standard 200 psi wet barrel bronze body fire hydrant. Six-hole bolt pattern, 1½” pent nut, plastic caps per AWWA C503.	<u>Region 3</u> Clow Valve Co.: 950 (DI), 2050 (Bronze) Jones: J-3700 (Bronze), J-4040 (DI) Waterous Pacer WB-67 Mueller Co.: Super Centurion 250 A-423
	DRY BARREL: 6” 3-WAY 4”x (2) 2 ½” 250 psi DI Fire Hydrant. Painted exterior. 1 ½” pent nut, iron caps, MJ shoe, drains open per AWWA C502.	American: Waterous Pacer WB-67-250 Mueller Co.: Super Centurion 250 A-423 AVK: 2700
Fire Hydrant, Bury Ductile Iron	6” ductile iron bury ells, 6H Flange x MJ/PO/FLG	Clow Valve Co. South Bay Foundry Sigma SIP Industries
Fire Hydrant, Extension Spools	6” cast iron spools shall be groove break-off and hollow bolts shall be breakaway.	Clow Valve Co. South Bay Foundry Sigma (DI) SIP Industries
Fire Hydrant, Raised Pavement Markers (Blue Reflectors)	Blue reflector attached to pavement to show location of fire hydrants at curb.	Hy-Viz Champion American Emedco
Fitting Ductile Iron	Flanged, mechanical, joint or push-on tees, bends, crosses, reducers, adapters, etc., for water lines 4” and larger. Manufactured per AWWA C110, C111, C115, and C153, cement mortar lined.	Tyler Union U.S. Pipe Sigma SIP Industries Star Pipe Products

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Gasket	1/16" thick ring gasket, asbestos-free; aramid fiber bound with nitrile bounded rubber (NBR).	Tripac Klinger Teadit Garlock
Joint Restraint Assembly for Ductile Iron Pipe	Mechanical joint type restraint system for ductile iron pipe, size 6" to 24" and Steel 3" to 12".	Ford: Uniflange for DIP Romac: RomaGrip (DIP) Romac: Piranha Restraint (DIP) Romac: GripRing Romac: Alpha (DIP) EBAA Iron: Megalug (DIP) US Pipe: MJ Field Lok Gasket (DIP) Sigma Smith-Blair: 111
Joint Restraint Assembly for PVC Pipe	Radial wedge type joint restraint system for C900 PVC, size 6" to 24".	Ford: Uniflange for PVC Romac: PVC RomaGrip (PVC) Romac: Alpha (PVC) EBAA Iron: Megalug (PVC) US Pipe: MJ Field Lok Gasket (PVC) Smith-Blair: 120
Meter Box (for 5/8" to 1" meters)	12" x 20" polymer meter box and cover for 5/8" to 1" water services.	<u>Armorcast:</u> A6000485SA (Preferred) A6000484DQ (cover w/ read lid) A6000487 A6000484 (one piece cover) A6000484T (20K traffic lid) A6000484TDQ (20k traffic w/read lid) <u>Oldcastle Precast:</u> 1118PC FW Box 1-Mouse Hole FL12D001 1PC Cover "WATER" 1118PC Cover w/H Series Read Lid

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Meter Box (for 1 ½” to 2” meters)	17" x 30" polymer meter box and cover for 2" water services. Boxes are 12" deep; 18" deep box is available.	<u>Armorcast:</u> A6001640PCX12 (box) A6001643DZ (cover w/read lid) A6000482 (one piece cover) A6001643 (one piece cover) A6001947T (20K traffic lid) A6001643TDZ (20k traffic w/read lid) <u>Oldcastle Precast:</u> PC1730-12 T-22 Box 1-Mouse hole FL36TBOX12 1-Mouse Hole PC1730 Cover w/H Series Read Lid
Meter Box With Traffic Rated Reinforced Fiberglass Lid	Lid rated for H-20 loading. Box installed in parkways and behind curbs. Not intended for installation in traffic lanes.	J&R Concrete Products Oldcastle Precast Armorcast
Meter Stop, Angle Valve (Compression) X Meter Size	1" bronze angle meter stop (ball valve) with 90 degree lock wing, inlet Compression X Plain Swivel Meter Nut.	Ford: BA43-444W-Q-NL Jones: E-1963W Mueller: B-24258-1 AY McDonald: 74602BQ
	2" bronze angle meter stop (ball valve) with 90 degree lock wing, inlet Compression X Meter Flange.	Ford: BFA43-777W-Q-NL Jones: E-1975WSG Mueller: B-24276N AY McDonald: 74602BQ
Meter Stop, Angle Valve (FIP) X Meter Size	1" bronze angle meter stop (ball valve) with 90 degree lock wing, inlet Female Iron Pipe X Plain Swivel Meter Nut.	Mueller: B-24265-1 Jones: J-1966W Ford: BA-13 AY McDonald: 74604B
Meter, Pump Station and Well Discharge	Magnetic and propeller flow meters.	McCrometer: Ultra Mag McCrometer: Water Specialties TR 16/12 Siemens
Meter, Small Water Service (3/4" to 2")		GSWC to supply (Foothill District uses 5/8" meters)
Meter, Large Water Service (3" to 12")	Ultra-sonic flow meter	Master Meter: Octave Ultrasonic Meter (Reading in CCF)

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Mortar Repair	Two component, non to low shrinkage, cement based with high compressive and bonding strength.	SikaTop: 122 Plus,123 Plus Vexcon: Certi-Vex All-Patch
Pipe – Service Line, Copper Tubing	1” and 2” Type K soft seamless tubing	Mueller Co.: Streamline Cambridge-Lee Industries, LLC
Pipe – Service Line, HDPE Tubing	Water service line HDPE tubing for 1” and 2”.	ADS PolyFlex Water Service Tubing (CTS)
Pipe, Ductile Iron (DIP)	Used for water lines 4” and larger; manufactured per AWWA C104, C111, C115, C150 and C151. Cement mortar lined. Class 350 minimum. Tyton Joint ®	McWane Ductile U.S. Pipe American Cast Iron Pipe Company
Pipe, HDPE (High Density Polyethylene)	Size 3” and smaller shall meet AWWA C901. Pressure class 200 minimum. Size 4” to 12” shall meet AWWA C906, Class 200 minimum and shall comply with ductile iron pipe sizes.	Any brand that meets the specification
Pipe, Marker Posts	Used to mark pipeline alignments and valve locations in unimproved areas.	Rhino Marking & Protection Systems Compliance Signs Energy Control Systems, Inc Carsonite
Pipe, PVC AWWA C900	Used for water lines 4” to 30” and 8” valve wells. Class 235 (DR18) minimum and AWWA compliant.	Vinyltech PVC Pipe North American Pipe Corporation Diamond Plastics Corporation
Pipe, Steel – Cement Mortar Lined And Coated (CML&C)	Steel cylinder type per AWWA M11 and C200. Wall thickness shall be 10 gauge minimum. Steel pipe 6” and smaller shall be epoxy lined to meet AWWA C213; Steel pipe 8” and larger shall be cement mortar lined to meet AWWA C205. All buried steel pipe shall be cement mortar coated; above ground steel pipe shall be painted.	Ameron Water Transmission Group Northwest Steel and Pipe Southland Pipe Corporation
Polyethylene Encasement	8-mil polyethylene encasement for buried DIP per AWWA C105. Clear color for potable water pipe.	Any brand that meets the specification

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Pressure Gauge and Transmitter for Tanks	Pressure gauge for water tanks. Capable of sending 4-20 mA signals to SCADA system showing depth of water. Type 316 stainless steel connections.	Rosemount: 2088 Ashcroft: K1
Pump, Vertical Turbine	See project specifications.	ITT Goulds Pumps Peerless Pump Company Floway Hydroflo
Repair Clamps and Bands	Repair clamps and bands shall be full circle stainless steel with stainless steel lugs, bolts & nuts.	Ford Romac Smith-Blair Mueller Co.
Service Saddle for Asbestos Cement Pipe	Bronze saddle Silicon bronze flattened double straps. Threaded outlet for sizes 1" and 2".	Ford: 202B Jones: J-979 Mueller: BR2B Series AY McDonald: 3825 AY McDonald: 3826
Service Saddle O.D. Controlled Sized for PVC C900 Pipe Sizes 4" to 12"	Bronze saddle with double or wide stainless steel bands and four bolts. CC threaded outlet for sizes 1" and 2".	Ford: 202BS Jones: J-969 Mueller Co.: BR2S Series Romac: 202BS AY McDonald: 3845
Service Saddle for Ductile Iron Pipe for Pipe Sizes 4" to 16"	Ductile iron nylon coated saddle with double or wide stainless steel bands and four bolts. CC threaded outlet for sizes 1" and 2".	Romac: 202NS Mueller Co.: DR2S JCM: 406 Ford: FC 202 Smith-Blair: 317
Tank, CP Hand hole Rubber Grommet	Used under CP handhole cover.	DIVECORR ION Cathodic Protection Technology
Tape, Warning And Identification	6" wide, warning and identification (non-metallic) marking tape for buried facilities.	Reef Industries, Inc.: Terra Tape Seton: Detectable Underground Tape Brady: Detectable Identoline Warning Tape

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Tapping Sleeve for ACP, CI, DIP, PCCP, and PVC pipe	Fabricated stainless steel tapping sleeve for hot taps of existing water mains; includes T304 stainless steel flange, T304 stainless steel bolts, nuts and full mat SBR gasket. See the Standard Drawings for detail information.	Ford: FTSS (S.S. Flange) Romac: SST III (S.S. Flange) Smith-Blair: 665 JCM: 432 Mueller Co.: H-304SS (S.S. Flange) Koppl
Tracer Wire Junction Box	For ground level termination of tracer wire and a connection point.	Copperhead Industries, LLC: Snakepit CD14TP/Blue Bingham & Taylor
Tracer Wire	No. 10 gauge AWG solid copper UF type wire, with cross linked polyethylene insulation; blue color. Use 3M gel filled wire connectors at all splices.	Paige Electric Copperhead Industries, LLC Regency Wire Co.
Tracer Wire, Pin Brazing Connections	Connects tracer wires to metal pipes, valves or junction boxes.	ION Cathodic Products and Technologies GMC Electrical, Inc. Farwest Corrosion Control Co.
Valve, Ball (No-Lead)	1” and 2” brass, straight, various end connections configurations 110 compression, FIP, MIP.	Ford Jones Mueller Co. AY McDonald
Valve, Ball With Locking Tabs (No- Lead)	1” and 2” brass, straight, various end connections configurations 110 compression, FIP, MIP locking tabs, lever handle	Ford Jones Mueller Co. AY McDonald
Valve, Insulated Ball (No-Lead)	1” brass, straight, Compression X Compression, insulated type.	Mueller Co.: N-35209

**Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE**

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Valve, Lockable Ball (No-Lead)	$\frac{3}{4}$ " and 1" brass customer shut-off ball valve, inlet FIP X Plain Meter Swivel Nut; lockable tabs with lever handle.	Ford: B13-332W-HB-34S-NL, B13-444W-HB-34S-NL Jones: E-1908 Mueller Co.: B-24351N-3 w/B-20298 AY McDonald: 76101MWHDLB
	2" brass customer shut-off ball valve, inlet FIP X Meter Flange; lockable tabs with lever handle.	Ford: BF13-777W-HB-67S-NL Jones: E-1913W Mueller Co.: B-24337N-3 w/B-20298 AY McDonald: 76101MW/SHDLB
Valve, Butterfly	12" and larger, rubber seated. Rubber shall be synthetic, BunaN or EPDM, AWWA C-504, Class B, 2 part liquid epoxy per AWWA C550. Coated and lined, rated for Class 250. Seat shall be in the body.	Mueller: Lineseal XP II Pratt: HP250 DeZurik: BAW
Valve, Check	Check valves shall be resilient seated and shall comply with AWWA C508-09. Interior and exterior ferrous surfaces shall be coated per AWWA C550. Check valves for use on wells and boosters shall be equipped with external lever and spring assemblies.	Mueller Co. Valmatic Cla-Val Clow Kennedy M&H
Valve, Resilient Wedge Cut-In and Sleeve,	4" to 8" non-rising stem, bronze stem, cast iron body and bonnet, rubber encapsulated wedge, T316 stainless steel body, bolts and nuts, 2" op nut open left manufactured to AWWA C509 with epoxy coated interior/exterior per AWWA C550	Mueller Co.: C-2360

Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Valve, Gate, Resilient Wedge (RWGV) (Pressure Class 150 Minimum)	4" to 12" non-rising, low zinc bronze stem, full wall ductile iron body and bonnet, EPDM rubber encapsulated wedge, T316 stainless steel body bolts & nuts, 2" op nut open left. Manufactured to AWWA C515 with epoxy coated interior/exterior per AWWA C550.	Clow: 2638 Kennedy: KS-RW M&H: Style 7000 Mueller: 2362 American AVK: 65
Valve, Insertion	4" to 12", A-36 steel sleeve, bolts and nuts T304 stainless steel, SBR gasket, sleeve, lined/coated fusion bonded epoxy per AWWA C213.	4'-8": QuickValve 10"-12": InsertaValve
Valve, Automatic Control	4" to 24", DI body, stainless steel trim & tubing, epoxy lined & coated.	Cla-Val
Valve, Pressure Regulating	For reducing water pressure to the customers on ¾" to 2" services.	Cla-Val Wilkins Watts Febco
Valve Box	Cast iron machined frame with Cast iron lid. See standard drawings for markings.	South Bay Foundry Sigma Long Beach Iron Works Bingham & Taylor Christy G5 Concrete Meter Box
Vault, Pipe Opening Seal	Seal pipe opening in vault and wall with a mechanical/rubber ring that is tightened to produce a water tight seal.	GPT: Link-Seal Modular Seal

**Golden State Water Company
POTABLE WATER MATERIALS GUIDELINE**

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>
Vault, Non Traffic Area (for areas not receiving regular traffic such as parkways, behind sidewalks, etc.)	Vault constructed of polymer concrete designed for 10K loads with open bottoms and lockable torsion spring assisted aluminum lids. Locking mechanism can be either a recessed padlock system or five-sided bolt lock down. When total depth is greater than 5 feet, vault shall be equipped with an aluminum ladder and a Ladder-up Safety Pole. Vault for meter installation shall be equipped with meter reading lid centered over the meter. Joints between vault sections shall have a butyl rubber sealant installed.	Brooks Products J & R Concrete Products, Inc. Jensen Precast Bilco Armorcast Products Precon Products Oldcastle Precast New Basis Olsen Precast Co. (OPC)
Vault, Traffic Bearing (for areas that can or may receive regular traffic in travel lanes or in road shoulders.)	Vault shall meet the requirements for traffic bearing vault and be designed in accordance with AASHTO H-20 wheel loading. Access hatches, frames and covers shall be rated for heavy duty traffic meeting AASHTO H-20 wheel loading. When total depth is greater than 5 feet, vaults shall be equipped with an aluminum ladder and a ladder-up safety pole. Vaults for meter installation shall be equipped with meter reading lid centered over the meter. Joints between vault sections shall have a butyl rubber sealant installed.	Brooks Products Jensen Precast J & R Concrete Products, Inc. Bilco Armorcast Oldcastle Precast New Basis Olsen Precast Co. (OPC)
Water Sampling Test Station and/or Enclosure	12 gauge steel 8” square X 36” high; single lockable door, powder polyester coated color: Sandstone or Low density Polyethylene Enclosure with UV inhibitors; 12” dia. X 36” high with hinged lid; Colored: Sandstone	Pipeline Products: WTS-858 American Machine & Conveyor: EZ-01F or Armorcast: P6002010 – Hinged
Welded Wire Mesh	W4 X D4 with Grade 40 steel 0.226-in dia.	

Golden State Water Company

POTABLE WATER MATERIALS GUIDELINE

Revisions Log:

<u>Date</u>	<u>Version No.</u>	<u>Description</u>
1/29/16	1.1	Added Pressure Gauge and Transmitter for Tanks
1/30/16	1.1	Added Revision Log
2/4/16	1.1	Added Welded Wire Mesh
2/8/16	1.1	Added GMC and FarWest Corrosion to Pin Brazing suppliers
5/12/16	1.2	Added American States CI Pipe products, JCM DI Service Saddle, Ford products
6/24/16	1.2	Returned AY McDonald Products to the Materials Guideline
8/8/16	1.3	Added RCT High Deflection Coupling; added Eclipse #88-SS Sample Test Station.
8/22/16	1.3	Added blue HDPE service line
10/11/16	1.3	Added FH pavement markers & pipe marker posts
10/12/16	1.3	Released Ver. 1.3
1/3/17	1.4	Divided information for Joint Restraint Assemblies between DIP and PVC.
2/23/17	1.5	Provided separate material call-outs for Joint Restraint Assembly between DIP and PVC pipe; revised meter box product identification; revised product identification for new tank painting and coating systems; changed the color of the DIP polyethylene baggie and wrap from "clear" to "black".
1/19/18	1.6	Released Ver. 1.6; added Clow Medallion Dry Barrel Hydrants, added PVC Pipe Fittings list of manufacturers, added PVC pipe joint restraint manufacturers, deleted references to AWWA C-905 pipe, added JM Eagle as a PVC pipe manufacturer, added Mid-State Concrete Products as approved for vaults, added Powerseal products. Added pole antenna.