

APPROVED MATERIALS LIST
SERVICE MATERIALS

May 2024

SIZE	DESCRIPTION	MANUFACTURER & MODEL NUMBER	NOTES
ADAPTERS			
1"	MIP x CTS Comp Adapter	Ford: C84-44Q McDonald: 74753-Q	No lead
2"	MIP x CTS Comp Adapter	Ford: C84-77Q McDonald: 74753-Q	No lead
ANGLE METER STOPS			
1"	CTS Ball Angle Meter Stop	Ford: BA43-444WQ McDonald: 74602-BQ	No lead
2"	CTS Ball Angle Meter Stop	Ford: BFA43-777WQ McDonald: 74602-BQ	With elongated holes. No lead
1"	FIP Ball Angle Meter Stop*	Ford: BA13-444W McDonald: 74604-B	No lead
2"	FIP x FLG Ball Angle Meter Stop*	Ford: BFA13-77W McDonald: 76101-MW	With elongated holes. No lead
* High pressure assembly only, above 175 psi			
AUTOMATIC CONTROL VALVE			
		Cla-Val	
BALL VALVES			
1"	FIP Ball Valve with Bolted Handle	Ford: B11-444W with HB34S McDonald: 76101W - SHDLB	No lead
2"	FIP Ball Valve with Bolted Handle	Ford: B11-777W with HB67S McDonald: 76101W - SHDLB	No lead
¾"	FIP x Meter Nut Ball Valve with Bolted Handle	Ford: B13-332W with HB34S McDonald: 76101MW - HDLB	No lead
1"	FIP x Meter Nut Ball Valve with Handle	Ford: B13-444W with HB34S McDonald: 76101MW - HDLB	No lead
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BALL VALVES			
2"	FIP x FLG Ball Valve with Bolted Handle	Ford: BF13-777W with HB67S McDonald: 76101MW - SHLB	No lead
2"	Blow Off FIP x FIP Ball Valve	McDonald: M-76109BCAPF 2	No lead
2"	Blow Off FIP x Compression Ball Valve	McDonald: M-76109BCAPQ 2	No lead
BUTTERFLY VALVES			
	CL 250: All flanged, ductile iron body, with factory epoxy inside	Pratt DeZURIK	AWWA C-504 Mfr date within one year of installation.
COMBINATION AIR AND VACUUM VALVES			
1"		APCO: 143-C ** A.R.I.: D-040	APCO: High Pressure ONLY Above 175 PSI
2"		APCO: 145-C ** A.R.I.: D-040	APCO: High Pressure ONLY Above 175 PSI
3"		APCO: 147-C ** A.R.I.: D-46	Per approved plans
4"		APCO: 149-C ** A.R.I.: D-46	Per approved plans
6"		APCO: 150-C ** A.R.I.: D-46	Per approved plans
** For APCO, all internal parts shall be stainless steel			
COPPER TUBING			
1" & 2"	Type "K" soft		
2"	2" Straight Type K Soft Copper		

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CORPORATION STOPS			
1"	MIP x CTS Comp Ball Corp Stop	Ford: FB 1100-4Q McDonald: 74704-BQ	No lead
2"	MIP x CTS Comp Ball Corp Stop	Ford: FB 1100-7Q McDonald: 74704-BQ	No lead
1"	MIP x FIP Ball Corp Stop *	Ford: FB 1700-4 McDonald: 73149-B	No lead
2"	MIP x FIP Ball Corp Stop *	Ford: FB 1700-7 McDonald: 73149-B	No lead
* High pressure assembly only, above 175 psi			
DETECTOR CHECK VALVES/BACKFLOWS			
¾" - 10"	RPDA, RP	Individual model submittal will require approval by the District prior to install. (All with iPERL bypass meter)	
FIRE HYDRANTS			
(1) 4" & (1) 2 ½" ports	Residential Areas	Jones: J-3700R or J-4040C Clow: 2050 or 850 OR Per approved plans	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps
(2) 4" & (1) 2 ½" ports	Multi-Res, Commercial & Industrial Areas	Jones: J-3775R or J-4065C Clow: 2065 or 865 OR Per approved plans	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps
FLANGED COUPLING ADAPTERS			
	Epoxy	Romac: FCA 501 Smith-Blair: 912	

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FLEX COUPLINGS / TRANSITIONS			
	AC, DIP, CML&C, PVC	Romac: Alpha (restrained), Macro HP Smith Blair: 441 PowerSeal: 3506	MegaLug, Uni-Flange or TUF Grip on DIP transition, as approved
GATE VALVES			
3" - 24"	All ductile iron body and bonnet, resilient wedge with factory epoxy with low zinc stem	AVK, Clow, Mueller, AFC	AWWA C-515 MFR date within one year of installation
METER BOXES & LIDS			
3/4" Meter	Polymer Concrete #4 ½ (20K)	<u>Armorcast:</u> Box: A6000485 & Lid: A6000484-H2 <u>J & R:</u> P-W4 ½-20K (DWG:4008) <u>DFW:</u> Box & Lid Set: DFW36C4-12-4PF 63D VAL NHK Box: DFW36C4-12-BODY Lid: DFW36C-4PF 63D VAL NHK-LID	# 4 ½ meter boxes shall have one-piece polymer lids rated 20K max. load, with 2" touch read hole.
1"-2" Meter	Polymer Concrete #6B (20K)	<u>Armorcast:</u> Box: A6001640PCX12, Cover: A6001947TDZ-H2 & Lid Insert Lid: A60004842T <u>J & R:</u> P-W6B-20K (DWG:6073) <u>DFW:</u> Box & Lid: DFW1640C4-12-4PF 63D VAL NHK Box: DFW1640C4-12-BODY Lid: DFW1640C-4PF 63D VAL NHK-LID	# 6B meter boxes shall be polymer lids rated 20K max. load, with 2" touch read hole.

SIZE	DESCRIPTION	MANUFACTURER & MODEL NUMBER	NOTES
METERS: WATER			
¾" (x 7 ½")	Box sets shall have TR/PL registers, cu.ft. x 100	Sensus iPERL	7 ½" Lay length (MFR date within two years of scheduled unlock date)
1"	Box sets shall have TR/PL registers, cu.ft. x 100	Sensus iPERL	(MFR date within two years of scheduled unlock date)
1 ½"	Box sets shall have TR/PL registers, cu.ft. x 100	Sensus Omni T ² (Industrial, Irrigation Services) Sensus Omni C ² (Domestic and Commercial Services) Sensus Cordonel (Approved for ALL service Types)	Flanged ends, verify type (MFR date within one year of scheduled unlock date. Save tags)
2"	Box sets shall have TR/PL registers, cu.ft. x 100	Sensus Omni T ² (Industrial, Irrigation Services) Sensus Omni C ² (Domestic and Commercial Services) Sensus Cordonel (Approved for ALL service types)	Flanged ends, verify type (MFR date within one year of scheduled unlock date. Save tags)
3" – 6"		Sensus Omni T ² (Industrial, Irrigation Services) Sensus Omni C ² (Domestic and Commercial Services) Sensus Cordonel (Approved for ALL service types)	Flanged ends, verify type (MFR date within one year of scheduled unlock date. Save tags)
PIPE: SEWER PIPE and LATERALS			
	PVC Pipe: Laterals	Green SDR 35	
	PVC Pipe	Green SDR 26	6" Detector tape

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PIPE: WATER DISTRIBUTION			
	Ductile Iron Pipe (DIP)* Class: x Pressure	TJ, MJ	Per approved plans
	Cement Mortar Lined and Coated 10-gauge Steel Pipe		Per approved plans
6" – 12"	Polyvinyl Chloride (PVC) C900, DR14		Per approved plans
* 8 mil clear polyethylene pipe sleeve on outside			
PRESSURE REGULATING VALVES			
¾", 1" & 2"		Wilkins: #600HR*	No lead
* All bronze body and bell housing and stainless-steel replaceable seat			
SADDLES			
1" & 2" IPT Outlet	DIP	Jones: J-979 McDonald: 3826 Mueller: BR 2 B Mueller: BR 2 B S Series	Bronze body with bronze double straps
1" & 2" IPT Outlet	ACP, PVC (C-900)	Jones: J-969W (All Pipe) McDonald: 3846 (All Pipe) Mueller: BR 2 B W, Series (All Pipe)	Bronze body with stainless steel 4 bolt single strap
TAPPING SLEEVES			
Size on Size	Cut-in flanged tee with valves and flex couplings		Fire Service and hydrant services only
Reducing	Fabricated steel with fusion epoxy and stainless steel nuts and bolts.	Smith-Blair: #622 – All Pipe Mueller MJ: H-619 - ACP	
Reducing	Fabricated all stainless steel with drop in bolts	Romac: SST – All Pipe Smith-Blair: #665 – All Pipe Powerseal: #3490AS – All Pipe	

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VAULT LIDS			
	Type "J" or "JD"	Bilco, Syracuse	All stainless-steel hardware, torsion bars, recessed locking hasp, & hinged reading lid
MISCELLANEOUS			
	Anode: CP-Z15 (15lbs) Calpico15ZA (15lbs)	Northtown Company Calpico Inc.	Per manufacturer recommendation
	Ductile Iron Fittings, Cement Lined, C-110 or C-153	Star / Union Foundry Sigma - water only OR Approved Equal	Lining per approved plans. I.D. same as main
	Grounding Clamps	LH Dottie DB 25 OR Approved Equal	
	Marking Tape: PVC Sewer PVC Water CML&C & DIP	Sewer Water Water	6" Detector tape 6" Detector tape 6" Non-detector tape
	Paint: FSC Coatings Armor Garage	<u>Silicone PolyPlus - FCS Coatings</u> Blue: "Nat'l Blue" Yellow: "Safety Yellow" Blue: 07 Safety Blue Yellow: 03 Safety Yellow Red: 04 Safety Red	FSC phone: (800) 579-8459 https://www.armorgarage.com/meepco.html 866-532-3979
	Sample Point Can Head	Koraleen Valve #0004	
	Snake Pit: Tracer Wire	Copperhead – CD14*2T-SW <u>APPROVAL REQUIRED</u> SC_PB-01 Inline Spice Kit SC_3WPB Three-Way Splice Kit LSC1030C-CTR (600 Volts)	Specify color blue 10 Gauge solid blue tracer wire
	Geosynthetic Fabric	Tencate Mirafi 140N OR Approved Equal	

NOTES: All materials listed shall be installed in accordance with the most recent edition of the "Standard Specifications for Construction of Water and Sewer Facilities" of the Vallecitos Water District.