

PUBLIC UTILITIES DEPARTMENT  
CITY OF SAN DIEGO

**APPROVED MATERIALS LIST**  
**FOR WATER**

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September 2020

**CITY OF SAN DIEGO  
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## Forward for 2020 Revisions

- **Suggested changes in the approved materials are still requested and will be reviewed. In order to keep the listing updated, it is necessary that anyone with pertinent information keep the committee updated.**
- **Materials other than shown on this list may be used when approval has been obtained for their use.**
- **Materials called out on subdivision plans may require specifications to be included with the subdivision plans. This will be the case of any material not covered by the referenced specifications\* for the subdivision.**
- **Effective January 1, 2010, the State of California, Department of Toxic Substance Control, enacted a new law, *Requirements for Low Lead Plumbing Products in California*. The intent of this legislation is to reduce the lead content in plumbing components intended to convey or dispense water for human consumption.**

**“Lead free” means that the maximum allowed lead content is:**

- **0.20 percent lead in solder and flux;**
- **0.25 percent lead in wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures, as determined by a weighted average.**

**For more information on *Requirement for Low Lead Plumbing Products in California*, please visit the following web site:**

<http://www.dtsc.ca.gov/PollutionPrevention/LeadInPlumbing.cfm>.

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**WATER DISTRIBUTION**

SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b>A. <u>Bronze Water Services Fittings for Iron Pipe, Plastic, and Copper Tubing</u></b>	*212 & 306-8	(Refer to section G, page 12 and 13 for model numbers).		<b>Minimum 150 psi working pressure.</b>  <b>Effective January 1, 2010, all pipe or plumbing fittings must be in compliance with a new law, <i>Requirements for Low Lead Plumbing Products in California</i>. Refer to page 2 for more details.</b>
(1) Corporation Stop, Curb Stop, Property Valve, Coupling, Compression Fittings, or Flared Copper Type only.	*212 & 306-8	The James Jones Company Ford McDonald Mueller	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
(2) Adaptors, Bends, Compression Fittings, or Flared Copper Type only.	*212 & 306-8			
(3) Service Saddle (double-bronze straps and nuts for pipe other than PVC).	*212 & 306-8	The James Jones Company (J-979) Ford (202B) Mueller (BR2B) Romac Industries (202B) A.Y McDonald (3825, 3826)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b><u>A. Bronze Water Services Fittings for Iron Pipe, Plastic, and Copper Tubing (cont.)</u></b>				
(4) Service Saddle (full support for PVC C-900 pipe, 4" through 12", unless otherwise noted). All Stainless Steel Saddles	*212 & 306-8	Smith-Blair (372) Romac Industries ( 306)	<input type="checkbox"/> <input type="checkbox"/>	
(5) Service Saddle. Bronze Saddle with Stainless Steel Strap	*212 & 306-8	Smith-Blair(325) Romac Industries(202BS) Ford (202BS)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
(6) Service Saddle. Bronze Saddle with Silicon Bronze Strap	*212 & 306-8	APAC (113)	<input type="checkbox"/>	
(7) Service Saddle. All Bronze Saddle	*212 & 306-8	PowerSeal (3401, 3403, 3407)	<input type="checkbox"/>	
(8) Service Saddle. Brass Saddle with Stainless Steel Strap	*212 & 306-8	The James Jones Company (J-969)	<input type="checkbox"/>	
(9) Service Saddle. All Brass Saddles	*212 & 306-8	Ford Tapping Saddles (s70 & s90)	<input type="checkbox"/>	

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b>B. <u>Water Services</u></b>				
(1) Polyvinyl Chloride Pipe (PVC)  Use of PVC solvent welded fittings & bends are not allowed on water services	*209-4, 212, 306-8	Any Manufacturer Meeting Specifications	<input type="checkbox"/>	For services 4" and larger
(2) Copper Tube, Type "K" (soft) 1" & 2" diameters	*212-10, 306-8	Mueller Brass Cerro Copper Products Cambridge-Lee Industries, Inc.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b>C. <u>Valves and Fire Hydrants</u></b>				
(1) Gate Valves 3" thru 48" diameter (a.) All internal parts to be bronze (b.) 3" thru 12" diameter - 200 psi working pressure 16" thru 48" diameter - 150 psi working pressure	*212, 306-8 AWWA C-500	Mueller (A2380-9206) Kennedy Valve Company/ Clow M & H (Dresser) K-Flow	<input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/>	<b>EPDM rubbers</b>
(2) Resilient-Wedge Gate Valves 2" thru 12" diameter (NRS)	AWWA C-509	M & H / Kennedy Valve Company./ Clow American A VK (Series 25) Stockham U. S. Pipe Metroseal (250) Mueller J&S Valve (Series 6600, 6800 and 6900)	<input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>EPDM rubbers</b> Non-Rising Stem (NRS) for buried service  Connections Flg x Flg Flg x MJ MJ x MJ
2" thru 66" diameter	AWWA C-515	American Flow Control (Series 2500) J&S Valve (Series 6600, 6800 and 6900)	<input type="checkbox"/>  <input type="checkbox"/>	<b>EPDM rubbers</b>  Connections Flg x Flg Flg x MJ MJ x MJ

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<b><u>C. Valves and Fire Hydrants (cont.)</u></b>				
(3) Resilient-Seated Butterfly Valves 6" thru 48" diameter	*212, 306-8.8 AWWA C-504	Pratt K-Flow	<input type="checkbox"/> <input type="checkbox"/>	<b>Class 150 EPDM rubber</b>
6" thru 12" diameter		M & H (Dresser) Mueller Kennedy Valve Company	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>EPDM rubber</b>
16" thru 48" diameter	*212, 306-8.8	Pratt K-Flow	<input type="checkbox"/> <input type="checkbox"/>	<b>Class 250 EPDM rubber</b>
3" thru 120" diameter	*212, 306-8.8 AWWA C-504, C111 & C-550	DeZURIK C/O CS-amsco	<input type="checkbox"/>	

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b><u>C. Valves and Fire Hydrants (cont.)</u></b>				
(4) Combination Air & Vacuum Valves, 1", 2", 3", & 4" diameters All internal parts to be stainless steel	AWWA C-512	APCO (143C,145C,147C,149C) Val-Matic (201C, 202C) GA Industries, Inc.( #945) Crispin (10UL, 20UL, 30UL, 40UL) PowerSeal (5403) ARI USA (D-060-C HF)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>(2" thru 4" only)</b>
(5) Automatic Control Valves		CLA-VAL Co. GA Industries, Inc.	<input type="checkbox"/> <input type="checkbox"/>	<b>Globe/Angle Pattern only</b>
(6) Standard Plug Valves (PEC) 100% Ported Plug Valves (PEF) ½" thru 72" diameter	*212, 306-8.8 AWWA C-517, C-111, C-550	DeZURIK C/O CS-amsco (Models PEC & PEF)	<input type="checkbox"/>	
(7) Blow-off Ball Valve		Ford Series BLA18	<input type="checkbox"/>	

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b>C. <u>Valves and Fire Hydrants (cont.)</u></b>				
(8) Fire Hydrants Wet Barrel Fire Hydrants for Ordinary Water Works Service	*212-6, 306-8.8 AWWA C-503 SDW-104	Clow (950, 960, 850, 860, 865)	<input type="checkbox"/>	<b>Hydrants with one-piece barrel only, no welded ports allowed.</b>
Sizes: 6"x4"x 2.5" - 2 ports 6"x4"x 2.5"x2.5" - 3 ports	*212-10, 306-8.8 AWWA C-503 & C-550 SDW-104	James Jones Co. J4040CR J4060CR	<input type="checkbox"/> <input type="checkbox"/>	<b>San Diego Drill Pattern 6-hole pattern with a 0.88 drilling on a 9.50 diameter bolt circle.</b>
Sizes: 1-2.5" x 4" 2-2.5" x 4" 1-2.5" x 2-4"		American AVK Co. Model # 24-20, Model # 24-70, Model # 24-90	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>No 8 inch Fire Hydrants allowed without Public Utilities approval.</b>
(9) Polyethylene Air and Vacuum Valve Enclosure				
Sizes: 18"x30" 14"x24"		Pipeline Products, Inc. VCAS 1830 VCAS 1424	<input type="checkbox"/> <input type="checkbox"/>	

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<b>D. <u>Meter Boxes</u></b>				
(1) Polymer-Concrete Meter Box  Sizes:  13"x24" Box and Cover  15"x29" Box and Cover  10"x15" Box and Cover 12"x20" Box and Cover 13"x24" Box and Cover 17"x30" Cover 9"x14" Cover	*212-10 SDW-134 to SDW 137	CDR (1" & 2" water service only)  Armorcast Products:  (A6001946X12, A6001969, A6001969-LT)  (A6001417X16, A6001418T)  (A6001921X12, A6001922T) (A6000485, A6000484) (A6001946PCX12) (A6001947T) (A6000482T)	<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>Non-standard models require approval by Public Utilities Department</b>
(2) Concrete Meter Box	*212-10	Brooks Products San Diego Precast Eisel Enterprises (Nos. 6 and 37)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Use of concrete meter boxes requires approval by Public Utilities Department</b>
(3) Composite Meter Box	*212-10	Oldcastle Fibrelite w/ Lid (FL09, FL12, FL30, FL36)  Oldcastle Carson Heavy Wall w/ Lid (1015, 1118, 1416, 1324, 1527, 1730)	<input type="checkbox"/>  <input type="checkbox"/>	

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b><u>E. Water Distribution Pressure Pipe</u></b>				<b>Effective January 1, 2010, all pipes must be in compliance with a new law, <i>Requirements for Low Lead Plumbing Products in California</i>. Refer to page 2 for more detail</b>
(1) Polyvinyl Chloride (PVC) Pipe DR-18 (CL 235) or DR-14 (CL 305) 4" thru 12" diameter	*209-4 AWWA C-900	Any Manufacturer Meeting Specifications  North American Pipe Corporation	<input type="checkbox"/>  <input type="checkbox"/>	<b>Marking - Pressure Class NSF Certification Pipe ends - plain /gasket bell coupling</b>
(2) Polyvinyl Chloride (PVC) Pipe 14" thru 36" diameter	*209-4 AWWA C-905 DR-18	Any Manufacturer Meeting Specifications  North American Pipe Corporation	<input type="checkbox"/>  <input type="checkbox"/>	<b>Pressure Rating 235 psi  (only up to 16" pipe diameter)</b>
(3) Fusible PVC Pipe	*209-8 AWWA C905	Underground Solutions	<input type="checkbox"/>	
(4) Ductile Iron (DI) pipe 4" thru 54" diameter	*209-1 AWWA C-111 AWWA C-104 AWWA C-105	Any Manufacturer Meeting Specifications	<input type="checkbox"/>	

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<b>F. <u>Water Distribution</u></b> <b><u>Miscellaneous</u></b>				<b>Effective January 1, 2010, all pipe or plumbing fittings must be in compliance with a new law, <i>Requirements for Low Lead Plumbing Products in California</i>. Refer to page 2 for more details</b>
(1) Ductile Iron Fittings and Joints For DI & PVC pipe, short body, cement lined	*209-1 AWWA C-110 AWWA C-111 AWWA C-153	Any Manufacturer Meeting Specifications  Romac Industries: Restraint Flexible Expansion Joint (FJ) Dismantling Joint (DJ400, DJ405)	<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>	<b>Only mechanical joint fittings shall be used on PVC pipe</b>
(2) Tapping Sleeve 4" thru 20" diameter		APAC (502) Baker (428) Ford (FTSC) Mueller (H619) Smith-Blair (622) JCM Industries (412) Romac Industries (FTS420) PowerSeal (3480AS, 3490AS, 3490MJ)	<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>Use on "existing system" only</b>

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<b>F. <u>Water Distribution</u> <u>Miscellaneous (cont.)</u></b>				
(5) Restraining Joints		Mega Lug StarGrip Romac Industries Grip Ring and Roma Grip Ford (1390-C, 1400-D, UFR1500) EBAA Iron Inc (Mechanical Series 1900 or Series 2000PV, Flexible Ball Joint Flex-900, Flex-Tend, Flex-Tend Forced Balanced Flexible)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/>	<b>To be Approved by Engineer</b>  <b>Series 1900 for C900 PVC Pipe (4" thru 12")</b>  <b>Flex-900 for DI, PVC, Steel and HDPE Pipe (24" thru 48")</b>
(6) Casing Spacers, End Seals, Pipe Penetration Seals		BWM (FB, SS, ESW, ESPO, SSPS, CPS)	<input type="checkbox"/>	
(7) Cast Iron Gate Well Frame & Lid		National Casting Corporation (NC 2100)  South Bay Foundry (SBF 1200)	<input type="checkbox"/>  <input type="checkbox"/>	

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(1) Effective January 1, 2010, all pipe or plumbing fittings must be in compliance with a new law, *Requirements for Low Lead Plumbing Products in California*.  
Refer to page 2 for more details

G. BRONZE WATER SERVICE FITTINGS (1)		COMPRESSION/PACKING				FLARED COPPER				MISCELLANEOUS		
TYPE	SIZE	MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER				MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER				MANUFACTURER'S MODEL NUMBERS FORD JONES MUELLER		
CURB STOP, ANGLE, BALL IPS THREAD TO METER PVC SCH 40 TO METER (elongated holes for 12" & 2" meters) TUBING TO METER TUBING TO METER (elongated holes for 12" & 2" meters)	2"	---	---	---	---	---	---	---	---	FV13-777W	J-1527F	H-14286
	2"	BFA73-777W	J-1979	4602B-44	---	---	---	---	---	---	---	---
	1"	BA43-444W	J-1963W	4602B-22	B-24258	BA23-444W	J-1973W	4602B	B-24255	---	---	---
	2"	BF43-777W	J-1975W	4604-B	B-24276	BFA23-777W	J-1964W	---	---	---	---	---
CORP STOP, BALL MIP TO MIP MIP TO PVC SCH 40 MIP TO TUBING MIP TO TUBING	2"	---	J-1943	3131-B	---	---	.....	---	---	FB-500	J-1943	H-9969
	2"	FB-1102	J-1977	4704B-44	B-25025	---	.....	---	---	---	---	---
	12"	FB-1100	J-1935	4704B-22	B-25008	FB-700	J-1930	4701B	B-25000	---	---	---
	2"	FB-1100	J-1935	4704B-22	B-25028	FB-700	J-1930	4704B	B-25025	---	---	---
COUPLING, ADAPTOR FIP TO IPS FIP TO PVC, IPS FIP TO TUBING MIP TO PVC, IPS MIP TO TUBING MIP TO TUBING	1"	C16-44	J-2608	4754-33	H-15454	---	---	---	---	---	---	---
	2"	C17-44	J-2640	4754-44	---	---	---	---	---	---	---	---
	2"	C14-77	J-2607	4754-22	H-15451	C21-77	J-1535	4754	H-15450	---	---	---
	2"	C87-77	J-2640	4753-44	---	---	---	---	---	---	---	---
	1"	C84-44	J-2605	4753-22	H-15428	C28-44	J-1531	4753	H-15425	---	---	---
	2"	C84-77	J-2605	4753-22	H-15428	C28-77	J-1531	4753	H-15425	---	---	---

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G. BRONZE WATER SERVICE FITTINGS (a)		COMPRESSION/PACKING				FLARED COPPER				MISCELLANEOUS		
TYPE	SIZE	MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER				MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER				MANUFACTURER'S MODEL NUMBERS FORD JONES MUELLER		
COUPLING, STRAIGHT METER TAIL METER TAIL PVC TO PVC SCH 40 TUBING TO TUBING TUBING TO TUBING	1"	---	---	---	---	---	---	---	---	C-38	J-130	H-10890
	: "	---	---	---	---	---	---	---	---	C-38	J-130	H-10890
	2"	C77-77	J-2642	4758-44	---	---	---	---	---	---	---	---
	1"	C44-44	J-2609	4758-22	H-15403	C22-44	J-1528	4758	H-15400	---	---	---
	2"	C44-77	J-2609	4758-22	H-15403	C22-77	J-1528	4758	H-15400	---	---	---
PACKING JOINT, 90° ELBOW TUBING TO TUBING	2"	L44-77	J-2611	4761.22	H-15526	C22-77	J-1552	4761	H-15525	---	---	---
VALVE, METER FIP TO METER	1"	B13-444 w/6120 HANDLE	J-1908	6101-MHB w/B20248 HANDLE	B-24351	---	---	---	---	---	---	---

\*References are to the current edition of the Standard Specifications for Public Works Construction, the "GREENBOOK", and/or the "WHITEBOOK" or the latest version of the AWWA Standards and ASTM Specifications.

Any projects funded by the Clean Water State Revolving Fund (CWSRF) and/or Drinking Water State Revolving Fund (DWSRF) require iron and steel products must be produced in the United States to meet the "American Iron and Steel (AIS)" requirements, unless the Environmental Protection Agency (EPA) waives the AIS requirement.

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