

# APPENDIX H

## LIST OF APPROVED MATERIALS

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### Meter Installation

(3/4" x 1", 1", or 2" Meters)

<i>For 3/4" x 1" Meter, use 1" service line For 1" Meter, use 1 1/2" service line For 1 1/2" &amp; 2" Meter, use 2" service line</i>	
Description	Approved Manufacturer/ Stock Number
(Size of main') x (Service line size) Double Strap Brass Saddle with Pipe Thread  <i>Note<sup>1</sup>: For water main size above 12", use triple stainless steel strap/DI epoxy coated bodied saddle. Smith-Blair 366 Series only.</i>	Jones - J-979 Series Ford – 202B Series Mueller - BR2B Series
Corporation Stop, Ball Style MIP x Comp <i>Use applicable size 1"- 2"</i>	Mueller B25028N Jones E1935SG
Angle Ball Meter Valve (Angle Stop)	<u>1" service line</u> Mueller B24258-1N Jones E1963WSG
	<u>1 1/2" &amp; 2" service line</u> Mueller B24276-N Approved equal
Polywrap-C (6Mil, use applicable size)	Northtown
Neptune Water Meter Supplied by IWA	Neptune R900i
Meter Coupling (Iron Pipe Thread by Meter Swivel Nut)	<u>For 3/4" x 1", &amp; 1" meters use,</u> Jones E1908 Mueller B24351N Approved Equal
	<u>For 1 1/2" &amp; 2" meters use,</u> Jones E129
Straight Dual Check Valve, Meter Swivel Nut x FIP Outlet <i>Commercial and irrigation meters require backflow device</i>	<u>3/4" x 1" &amp; 1"</u> Mueller H14242
Meter box with solid cover marked "IWA" (With 2" Read Port )	<u>3/4" x 1" Meter</u> J&R Conc. Products P-W5 1/4 Special Series 15" High Polymer MB
	<u>1", 1 1/2", 2" Meters</u> J&R Conc. Products P-W5 1/2 Special Series 20" High Polymer MB
Type "K" Soft Copper Tubing	Cerro Mueller – Streamline Cambridge Lee

## Meter Installation

(3" and larger)

*3-inch and larger meter installation require ductile iron laterals and gate valve at water main.  
Use specified material dependent on installation size.*

## Combination Air Valve Assembly

(1" & 2" Installations)

Description	Approved Manufacturer/ Stock Number
(Size of main') x (Service line size) Double Strap Brass Saddle with Pipe Thread	Jones - J-979 Series Ford – 202B Series Mueller - BR2B Series
Corporation Stop, Ball Style MIP x Comp	Use applicable size Mueller B25028N Jones E1935SG
Type " K " Copper Tubing	Cerro Mueller Cambridge Lee Streamline
Combination Air Release and Air Vacuum Release Valve	A.R.I. D-040LP "Barak" model only
Curb Valve	Jones - E1949SG Mueller – B25209N
Brass Gate Valve	2" Nibco Domestic only
Air Release Valve Enclosure	Pipeline Products – VCAS-2436-SM 24" x 36" – Sandstone color only

## Backflow and Reduced Pressure Devices

Description	Approved Manufacturer/ Stock Number
Reduce Pressure Devices up to 2"	ARI RP 500 Febco LF825Y Wilkins 975XL2
Reduce Pressure Devices 3" Larger	Febco LF880V Wikins 475 N Style
Double Detector Check Backflow Assembly <i>Must install 5/8" by-pass meter w/ radio read register (purchased at IWA)</i>	Febco LF876V or LF886V

## Ductile Iron Pipe and Fittings

Description	Approved Manufacturer
Ductile Iron Pipe – <i>Cement lined only</i> Class 350 for line size up to 12” Class 250 for line size 14” and above	US Pipe Pacific States Griffin American Pipe
12 mil Polyethylene Wrap & 10 mil Tape	Northtown Christy’s
Pipe Restraints	<u>Mechanical Restraints</u> Stargrip Megalug
	<u>Restraint Joint Gasket</u> Field lok McWane Romac Star Pipe
Ductile Iron Fittings <i>Flange and Mechanical Joint fittings only</i>	Star Sigma Tyler Union SIP Industries

## Valves and Related Items

Description	Approved Manufacturer/ Stock Number
Resilient Wedge Gate Valve – up to 10” Ductile iron, epoxy coated interior and exterior body To meet AWWA C-509 minimum standard Flange x Flange fitting only 2” operating nut	Mueller Clow AFC AVK
Butterfly Valve - 12” and larger Ductile iron, epoxy coated interior and exterior body Flange x Flange fitting only Rubber on body- body on the disk not allowed 2” operating nut	Mueller Henry Pratt DeZurik
Steel Valve Stem Extension	Pipeline Products – SX Zinc rich powder coat finish
Valve can riser	8” Blue Brute C-900 Or approved AWWA C-900 equal
Valve Box <i>Steel lid must be casted with “IWA”</i>	J&R Concrete – V4-T Valve Box

### Wet Barrel Fire Hydrant Assembly

Description	Approved Manufacturer/ Stock Number
6" Wet Barrel Fire Hydrant <i>Must have one(1), 4" port and two(2), 2 ½" ports</i>	Jones - J4060 Clow - Model 860
Fire Hydrant Break Off Check Valve	Clow A40 Long Beach 400
Fire Hydrant Bury	South Bay Foundry Clow Sigma Approved Equal SIP Industries

### 4-inch Blow Off Assembly

Description	Approved Manufacturer/ Stock Number
D.I. Threaded Companion Flange – 4" x 2" Thread 125#	Smith-Cooper Approved Equal
Brass Double Male Hex Nipple - 2" MNPT x 2 ½" NH BRS AD	Dixon Approved Equal
2"-1/2 Plastic Hydrant Cap w/ Ring	James Jones
Cover box - marked "WATER"	South Bay Foundry - 1240

### Transition Couplings

Description	Approved Manufacturer/ Stock Number
Specially made long flange coupling adapter to fit on AC (913)(914) style with minimum of 12"- 18" length	Smith Blair, Romac Or approved equal

## Other Materials

Description	Approved Manufacturer/ Stock Number
Ring Flange Gasket <i>For below ground installation use non-asbestos paper</i> <i>For above ground installation use threaded flange rubber</i>	NFS-61 Approved for paper ASTM approved for rubber
Nuts and Bolt Sets <i>Must be 316 SS bolts with Blue Coated nuts</i>	Tripac
Sampling Station Enclosure	Pipeline Products WTS-858-SS
Taping Sleeves <i>(may only be used under approval of IWA engineer)</i> <i>Must be all stainless steel to include flange</i>	Mueller H304, Smith Blair 663, JCM 432, Romac SST
Large Meter Vault Polymer/fiberglass blend vaults Cast-in-place and concrete block vaults to be approved by IWA engineer	Armorcast
Automatic Flushing System	Eclipse I series #9800WC-i

## Water Meters

<i>All water meters will be supplied by the IWA at the contractors' expense. Acceptable manufacturers are listed below. <b>No other substitutions will be allowed.</b></i>	
Description	Approved Manufacturer/Stock Number
1-inch services – Water Meter with Radio Frequency Transmitter	Neptune R900i Integrated E-Coder Register & Radio
2-inch services – Water Meter with Radio Frequency Transmitter	Neptune R900i Integrated e-Coder Register & Radio
3-inch services – Water Meter with Radio Frequency Transmitter	Neptune HP R900i Turbine Integrated E-Coder Register & Radio
Up to 1-inch services – Meter Box and Cover	J&R P-W5¼ Special Series polymer meter box 15" high (w/ backflow use 5-¼" Box) Solid Cover Marked "IWA" (2" Read port)
1 ½" and 2" services – Meter Box and Cover	J&R P-W5½ Special Series polymer meter box 20" high Solid Cover Marked "IWA" (2" Read port is required on the cover)