



## LIST OF APPROVED MATERIALS

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### Meter Installation

*All water meters will be supplied by PWD at the contractors' expense. Acceptable manufacturers are listed below. **No other substitutions will be allowed.***

Description	Approved Manufacturer/Stock Number
<u>Service Connection</u> (Size of main) x (Service line size)	<u>Asbestos Cement Pipe:</u> Double Strap Brass Service Saddles Ford No. 202B or Approved Equal <u>Ductile Iron Pipe:</u> Double Strap Malleable Iron Saddles with Dielectric Bushing <u>PVC Pipe:</u> Double Strap Stainless Steel Saddles Jones J-996 or Approved Equal <u>Steel Pipe:</u> 3000 LB. Weld On Half Coupling
Meter Boxes	<u>¾" Meters:</u> 12"x20"x12" Armorcast Meter Box No. A6000485X12 w/ Armorcast Cover w/ Hinged Reading Lid No. A6000484R-H9  <u>¾" Traffic Rated Meter Lids:</u> Armorcast Cover w/ Hinged Reading Lid No. A6000484TR-H9  <u>1" Meter:</u> 13"x24"x12" Armorcast Meter Box No. A6001946PCX12 w/ Armorcast Cover w/ Hinged Reading Lid No A6001866R-H9  <u>1" Traffic Rated Meter Lids:</u> Armorcast Cover w/ Hinged Reading Lid No. A6001969TR-H9  <u>1-1/2" – 2" Meter:</u> 17"x30"x12" Armorcast Meter Box No. A6001640PCX12 w/ Armorcast Cover w/ Hinged Reading Lid No A6001643R-H9  <u>1-1/2" - 2" Traffic Rated Meter Lids:</u> Armorcast Cover w/ Hinged Reading Lid No. A6001947TR-H9  Or Approved Equal



Large Meter Vault	<u>Meter:</u> Contact PWD Engineering Department <u>Vault:</u> <u>8'W x 6'L Concrete Vault</u> Jensen Pre-Cast or Approved Equal
Corporation Stop, Ball Style MIP x Comp	<u><math>\frac{3}{4}</math>", 1", 1 <math>\frac{1}{2}</math> ", 2"</u> Jones No E-1935 Mueller B25028 Or Approved Equal
Angle Ball Meter Valve (Angle Stop)	<u><math>\frac{3}{4}</math>" and 1"</u> Ford No. BA43-232W-G-NL Mueller B24258 Or Approved Equal
	<u>1 <math>\frac{1}{2}</math> " and 2"</u> Jones No. E-1975W (Full Face or Drop-In Gasket) Mueller B24276 Or Approved Equal
Polywrap-C (8 Mil, use applicable size)	Northtown Or Approved Equal
Water Meter	Contact PWD Engineering Department
Meter Flange Coupling-Customer Shut off Valve (Iron Pipe Thread by Meter Swivel Nut)	<u><math>\frac{3}{4}</math>" and 1"</u> Jones E1908 (Short Handle) Mueller B24351N Or Approved Equal
	<u>1 <math>\frac{1}{2}</math> " and 2"</u> Ford No. CF31 (Full-Face or Drop-In Gasket)
Type "K" Softer Copper Tubing	Mueller Cerro Cambridge Lee



### Combination Air Valve Assembly

Description	Approved Manufacturer/Stock Number
(Size of main) x (Service line size) (8" or smaller Pipe) x (1" service) (10" or larger pipe) x (2" service) Double Strap Malleable Iron Saddle with Pipe Thread	Mueller DR2A (For Ductile Iron Pipe) Mueller BR2S (For C900) Or Approved Equal
Ball Straight SVC Valve, Ball Style MIP x Comp	Use Applicable Size Jones No J-1900W Or Approved Equal
Type "K" Softer Copper Tubing	Mueller Cerro Cambridge Lee
Combination Air Release Vacuum Release Valve	A.R.I. D-040
Brass Ball Valve	Nibco Or Approved Equal
Air Release Valve Enclosure	Pipeline Products (VCAS-1830 Green) Or Approved Equal

### Backflow and Reduced Pressure Assemblies

Description	Approved Manufacturer/Stock Number
Reduce Pressure Devices up to 2"	Wilkins 975XL2 Or Approved Equal
Reduce Pressure Devices 3" or Larger	Febco LF880V Or Approved Equal



## Ductile Iron Pipe and Fittings

Description	Approved Manufacturer/Stock Number
Ductile Iron Pipe- <i>Double Cement lined only</i> Class 350 for line size up to 12" Class 250 for line size 14" and above	McWane US Pipe Or Equal
8 mil Polyethylene Wrap & 10 mil Tap	Northtown Christy's
Pipe Restraints	<u>Mechanical Restraints</u> Megalug by Ebba Iron, Inc. or Equal <u>Push on Restraint</u> Ebba Iron, Inc. or Equal
	<u>Restraint Joint Gasket</u> McWane Romac
Ductile Iron Fittings <i>Flange and Mechanical Joint fittings only</i>	Sigma Star Tyler Or Approved Equal
Mechanical Tapping Sleeves	Mueller H-615 or Approved Equal
Flange Insulation Kits (rubber-coated gasket kits)	Calpico, Inc. or Approved Equal

## Cement Mortar Lined and Coated Steel Pipe and Fittings

Description	Approved Manufacturer/Stock Number
Cement Mortar Lined and Coated Steel Pipe AWWA C205-12	Southland Pipe Corporation Imperial Pipe or Equal
Cement Mortar-Coating AWWA C205-12	Southland Pipe Corporation Imperial Pipe or Equal
Joints: -Rubber Gasket Joints (SS-P-385) -Lap Welded Field Joints (AWWA C206-11) -Flanged Ends (AWWA C207-13)	Southland Pipe Corporation Imperial Pipe or Equal
Steel Pipe Fittings All fittings for mains 12 inches or smaller shall be Class 150 or Class 250 9 (AWWA C207-13)	Southland Pipe Corporation Imperial Pipe or Equal



Tapping Sleeves	Koppl Weld Nozzle CN 100-Nozzle less than half CN 120- Nozzle half or more
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### PVC Pipe and Fittings

Description	Approved Manufacturer/Stock Number
PVC Pipe C-900 AWWA C900-07	North American Pipe Corp Or Equal
<b>Mechanical</b> *Gland shall be Ductile Iron (ASTM A536-65-45-12)	Megalug by EBBA Iron, Inc. or Approved Equal
Push On Restraint	Harness: EBBA Iron, Inc. or Approved Equal
<b>Ductile Iron Pipe Fittings</b> ANSI/AWWA C110/A21.10-12 Class 350	Star Tyler SIP Industries Sigma Co. or Approved Equal
Identification Wire	Duet Industries or Approved Equal
Underground Marking Tape	Terra Tape Extra Stretch 540 or Approved Equal
*Connections to PVC Pipe	Jones Model NO. J-969 or Approved Equal (Bronze service saddle set with double stainless-steel straps)
Mechanical Tapping Sleeves	Mueller H-615 or Approved Equal



## Valves and Related Items

Description	Approved Manufacturer/Stock Number
<b>Resilient Wedge Gate Valve- up to 10"</b> Ductile iron, epoxy coated interior and exterior body To meet AWWA C500-09, or AWWA C515 Flange to Flange fitting only 2" operating nut	Mueller Clow Kennedy American Or Approved Equal
<b>Butterfly Valve- 12" and larger</b> Cast Iron To meet AWWA C504-15, or AWWA C509-09 Rubber-Seated Flange to Flange fitting only 2" operating nut	Mueller Clow Kennedy American Or Approved Equal
Check Valves (Seat rings shall be replaceable-either Viton or Teflon)	Prince Cushion Valves Apco Cushioned Check Valves Or Approved Equal
Check Valves (2-1/2" and smaller)	Walworth or Approved Equal
Plug Valves	Rockwell Dezurick or Approved Equal
Steel Valve Stem Extension	Pipeline Products- SX Zinc rich powder coat finish
Valve can riser	Sch. 40 PVC 8" Blue Brute C-900 Or approved AWWA C-900 equal

## Fire Hydrant Assemblies

Description	Approved Manufacturer/Stock Number
6" Wet Barrel Fire Hydrant <i>Must have one(1), 4" port and two(2), 2 ½" ports</i> All hydrants must conform to AWWA C503	Clow-Model 850 or Equal
Fire Hydrant Paint (One (1) coat of red primer and two (2) finish coats	Rust-Oleum Safety Yellow or Approved Equal



## 2-Inch Blow Off Assembly

Description	Approved Manufacturer/Stock Number
Brass Ball Straight SCV Valve	Jones No. J-1900W Or Approved Equal
Meter Box	<u>Armorcast Meter Box No.</u> A6001946PCX12X12  <u>Armorcast Cover w/ Hinged Reading Lid No.</u> A6001866R-H9

## 4-Inch Blow Off Assembly

Description	Approved Manufacturer/Stock Number
Wharf Head 4" x 2 1/2"	Jones Model No. J-344 H.P. Or Approved Equal

## Transition Couplings

Description	Approved Manufacturer/Stock Number
Specially made long flange coupling adapter to fit on AC (913)(914) style with minimum 12"-18" length	Smith Blair Romac Dayton Or Approved Equal
Flexible Couplings (Stainless-steel nuts and bolts)	Smith-Blair Baker Or Approved Equal
Clamp Mechanical Couplings	Victaulic Company of America Gustin-Bacon Or Approved Equal





## Other Materials

Description	Approved Manufacturer/Stock Number
<i>Ring Flange Gasket (Below Ground Only)</i> <i>Full Face Paper (Above Ground Only)</i>	NFS-61 Approved for paper
Nuts and Bolts Sets <i>Must be A307-Zinc Plated</i>	Tripac
Sampling Station	Armorcast Water Sampling Station 815 or Approved Equal
Tapping Sleeves (may only be used under approval of PWD Engineer)	PVC (C-900), Ductile Iron, and Asbestos Concrete sleeves shall be: Mueller H-615 or Equal
Large Meter Vault Polymer/fiberglass blend vaults Cast-in-place and concrete block vaults to be approved by PWD Engineer	Jensen Pre-Cast Or Approved Equal