

**List of Approved Materials Manufacturers
General**

	<u>Spec. Sec.</u>	<u>Standard</u>	<u>Approved / Manufacturer</u>
Metallic Warning Tape (water / gravity, & FM sewer)	Sec. 02551, 02553, 02561, 02563, 02566		All Manufacturers
Tracer Wire (12 ga. solid)	Sec. 02553		All Manufacturers
Standard Valve Box (screw type)	Sec. 02553	W-1, W-2	Sigma, Bingham & Taylor, Capitol Foundry
	Sec. 02566	P-1, P-2, P-3	Sigma, Bingham & Taylor, Capitol Foundry
Curb Valve Box (screw type) with Water Lid	Sec. 02552	W-9	Sigma, Bingham & Taylor, Capitol Foundry

**List of Approved Materials Manufacturers
Water Main Construction**

	<u>Spec. Sec.</u>	<u>Standard</u>	<u>Approved / Manufacturer</u>
(DIP) CL-52 / Slip Joint / Restrained Joint (cement Lined)	Sec. 02551		US Pipe, Griffin, American, Atlantic States, Clow
(PVC) C-900 DR-18 CLASS 150	Sec. 02551		JM, National, Diamond, North American
(PVC) SDR-21 B&S (bell gasket) 200 psi	Sec. 02551		JM, National, Diamond, North American
(HDPE) High Density Polyethylene DR-11	Chap 2 Design		Pressure Rated to Match System Piping
Mechanical Joint Fittings (cement Lined)	Sec. 02551		Tyler, Union, Sigma, Star Pipe
Ductile Iron (sleeves, bends, tees, reducers, end cap, plugs)			
MJ Accessory Kits	Sec. 02551		EBAA, Sigma, US Pipe, Star Pipe
HDPE Fittings (fusion type)			Pressure Rated to Match System Piping
Resilient Seat Wedge (Gate) Valves / (MJ)	Sec. 02552	W-1, W-2	US Pipe, Mueller, Kennedy, M&H, Clow
Fire Hydrants (5-1/4" main valve x MJ)	Sec. 02554	W-1	Mueller, US Pipe, Clow, Kennedy, American, M&H
MJ x Swivel Tee (Req. for hydrant service valve)	Sec. 02551	W-1	Griffin, Tyler, Clow, Union, Sigma
2.0" Hydrant Blow Off (connected with 2" brass pipe)		W-3	Kupferle, Mainguard
2.0" Brass Hardware			Merit Brass or approved equal
2.0" Air Release Valve (stainless body)	Sec. 02552		Crispin, ARI
Air/Vacuum Release Valve	Sec. 02552		Crispin, Apco, ARI or approved equal
Stainless Steel Tapping Sleeve (with tapping valve)	Sec. 02552		Romac, Mueller, Ford
Double Strap Brass Service Saddles		W-4A,W-4B, W-5, W-9	Ford, Mueller, McDonald
Corporation Stop / Bronze Curb Stop (assembly)	Sec. 02553	W-9	Ford, Mueller, McDonald
K Copper Tubing (soft / rolled) 1" dia. and greater	Sec. 02553	W-5	Mueller, Reading, Cambridge-Lee Industries
HDPE Water Services 1.25" dia. and greater		W-4B	Pressure Rated to Match System Piping
Copper Setter Flared (with dual cartridge check valve)	Sec. 02553		Ford, Mueller, McDonald
(Single or Shared Domestic / Sprinkler Connection)		W-4A, W-4B	Ford, Mueller, McDonald
Meter Vault (plastic pit setter)	Sec. 02553	W-4A, W-4B, W-5	DFW Plastics, Mid States
Blow Off Vault		W-3	DFW Plastics, Mid States
Frame & Cover (cast iron with locking mechanism)		W-8, W-10	Capitol Foundry, Ford, AY McDonald, Sigma
Lid Labeled (water meter designed for ECR sensor)	Sec. 02553	W-8, W-10	Capitol Foundry, Ford
Fireman Post Indicator & Valve	Sec. 02553	W-15	Kennedy, Mueller
Water Meters	Sec. 02553	W-6, W-8, W-10, W-11	Neptune Automatic Meter Read (AMR) Meter

**List of Approved Materials Manufacturers
Gravity Sewer Construction**

	<u>Spec. Sec.</u>	<u>Standard</u>	<u>Approved / Manufacturer</u>
<u>Sewer Pipe (Mains / Services)</u>			
(PVC) SDR-35 / C-900 - DR 14	Sec. 02561		JM, National, Diamond, North American
(DIP) CI-52 Fiberglass or Ceramic Epoxy lined	Sec. 02561		US Pipe, Griffin, American, Atlantic States, Clow (approved applicators)
(RCP) Reinforced Concrete Pipe	Sec. 02561		Hydro Conduit, Concrete Pipes & Products
(HDPE) High Density Polyethylene	Sec. 02561		Pressure Rated to Match System Piping
<u>Service Connections / Fittings (Wyes / Bends)</u>			
(DIP) Fiberglass, Ceramic Epoxy, Dbl. Cement Lined	Sec. 02561		Griffin, American, Atlantic States, Clow (approved applicators)
(PVC) SDR-35 / C-900	Sec. 02561	S-3, S-4, S-10, S-11, S-12	Harco, Multi Fittings, GPK, Plastic Trends
Pipe Strap Saddle (tee or wye gasketed)	Sec. 02561	S-13, S-14	Geneco, Romac or approved equal
Core Drilled and Inserted Main Tap	Sec. 02561	S-15, S-16	Insert-A-Tee
Cored Manhole Gasket	Sec. 02561		Kor-N-Seal
Pinella Cover	Sec. 02561	S-17	Jumbo, Pinella Industries
Lamphole Cover (with expansion plug)	Sec. 02561	S-18	Capitol Foundry
<u>Precast Concrete Structures</u>			
Sewer Manholes	Sec 02562	S-1, S-2	Frederick, Superior, Terre Hill, Americast, Hanson
Drop Connections	Sec 02562	S-3, S-4	Precast or Cast in Place
Manhole Built over Existing (doghouse)	Sec 02562	S-5	Frederick, Superior, Terre Hill, Americast, Hanson
Cast in Place Channels	Sec 02562	S-6	Submit manufacturers shop drawings
Brick Masonry	Sec 04200	S-6	Type SM / ASTM C32
<u>Manhole Frames and Covers</u>			
Standard Heavy Traffic	Sec 02562	S-7	Capitol Foundry
Watertight	Sec 02562	S-8	Capitol Foundry
Insert with Strap	Sec 02562		Flow in Flow, East Jordan

**List of Approved Materials Manufacturers
Low Pressure Forced Main Sewer Construction**

	<u>Spec. Sec.</u>	<u>Standard</u>	<u>Approved / Manufacturer</u>
<u>Mains and Services</u>			
(PVC) SDR-21 B&S (bell gasket) 200 psi	Sec. 02563		JM, National, Diamond, North American
(PVC) C-900 DR-18 Class 150 B&S (bell gasket)	Sec. 02563		JM, National, Diamond, North American
(PVC) Schedule-80 pipe (plain end) Solvent Weld Joints	Sec. 02566	P-1	
(DIP) CL-52 (glass or epoxy lined) B&S (flex joint)	Sec. 02563		US Pipe, Griffin, American, Atlantic States, Clow (approved applicators)
(HDPE) / DR-11 (fused joints)	Sec. 02563		Pressure Rated to Match System Piping
<u>Pressure Rated Fittings</u>			
Service Tee (PVC, DIP) Threaded Outlet	Sec. 02566	P-1	Harco or approved equal
Horizontal / Vertical bends (PVC, DIP)	Sec. 02566		Harco, Multi Fittings, GPK, Plastic Trends
PVC Schedule-80 (solvent weld joints)	Sec. 02566	P-1, P-2, P-3, P-4, P-5, P-6	National, Charlotte, Crestline, Lasco
HDPE (fusion type)	Sec. 02566		Central Plastics or approved equal
<u>Valves</u>			
Resilient Seat Wedge (MJ) Gate Valve (flanged interior use)	Sec. 02552		US Pipe, Mueller, Kennedy, M&H, Clow
Plug Valve (MJ or Flanged)	Sec. 02566		Dezurik or approved equal
Bronze Ball Valve (fipx fipx w' 2" sq. oper. nut)	Sec. 02566	P-1, P-2, P-3, P-4, P-5, P-6	Ford, Mueller, McDonald
Bronze Check Valve (fipx fipx)	Sec. 02566	P-9	Ford, Mueller, McDonald
<u>Miscellaneous</u>			
Brass (nipples, tees, bushings, plug)	Sec. 02566	P-3, P-4, P-5, P-6	Merit or approved equal
Couplings, Saddles (@ trans. connection to gravity sewer)	Sec. 02566	P-10, P-11	Geneco, Romac, Harco
Comb. Air Release / Air / Vacuum Valve (stainless body)	Sec. 02563	P-8	ARI, Crispin, Apco or approved equal
Sewage Grinder Pumping Unit (simplex / duplex units)	Sec. 11307	P-9, P-9A	Myers or Barnes

**List of Approved Materials Manufacturers
Wastewater Pump Station**

	<u>Spec. Sec.</u>	<u>Standard</u>	<u>Approved / Manufacturer</u>
Flowmeter			(ABB) Process Master for submergence in water I P68 with start up
Transducer (submersible)			KPSI Series 750 (Non-Fouling)
Solar Controller for Solar Backup (WWPS with a Godwin pump)			Morning Star Pro Star 30

**List of Approved Materials Manufacturers
Water Pump Station**

	<u>Spec. Sec.</u>	<u>Standard</u>	<u>Approved / Manufacturer</u>
Chlorine Injection Pump			Stenner (parastolic) or LMI (diaphragm)
Chlorine Analyzer			Hach CL-17
Chart Recorder			Honeywell DR 4300
Eyewash			Pedestal Mounted with Potable Water