



PARTS SUBMITTALS - Planning & Development Department

POTABLE WATER

Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	Notes	
1.0	Water pipe					
1.1	DUCTILE IRON					
1.1.1	Pipe - Ductile Iron	Tyton Joint - U.S. Pipe - American Ductile Iron pipe - or approved equal	Ductile Iron - Pipe	Pipe diameter	Pipe diameter (Minimum, Maximun) (Inches)	
				Pipe bell dimensions	Pipe outer diameter - bell outer diameter - socket depth (Inches)	
				Pipe Pressure Class	Class 350 psi	
1.2.1	Gasket	Tyton Joint - U.S. Pipe	Field Lok 350 Gaskets	Assembly Instructions	The gasket brand must match the pipe brand	
		American Ductile Iron	Rubber gaskets of	Temperatures up to 150 F		
1.1.2	Poly Wrap	White Rhino	Polyethylene	ANSI/AWWA C105/A21.5	Linear Low Density	
1.1.3	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	TEE - Ductile Iron	MJ x MJ, MJ x Flange, MJ x ST & Crosses	H - J - Wt.	
1.1.4	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	Reducers - Ductile Iron	MJ Reducer, MJ X Large, MJ X Small, Plain end x Plain end	L - Wt.	
1.1.5	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 90° - Bend Ductile Iron (A-WT)	MJ 90° Bend MJ X MJ Bends	A - Wt.	
1.1.6	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 45° - Bend Ductile Iron (A-WT)	MJ 45° Bend MJ X MJ Bends	A - Wt.	
1.1.7	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 22.5° - Bend Ductile Iron (A-WT)	MJ 22.5° Bend MJ X MJ Bends	A - Wt.	
1.1.8	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 11.25° - Bend Ductile Iron (A-WT)	MJ 11.25° Bend MJ X MJ Bends	A - Wt.	
1.1.9	Solid & Tapped Caps	SIP Serampore Industries	Plugs - Ductile Iron	Size, T, Max Tap	Weight (Caps, Plugs)	
1.1.10	Joint Restraint - Ductile Iron	SIP - Industries EZ Grip	Joint Restraint - for Ductile Iron	Technical Information	Max Pressure rating (Psi) - Approx. Weight (Lbs)	
		Star Pipe Products				
1.1.11	Tapping Sleeve	Mueller Co. - American flow control - East Jordan - Tyler Union	Sleeve - Ductile Iron	"N" No. & Size of bolts including both ends	According to parts List	Tyler Union is the only manufactured that does not need to meet the matching criteria for FH and GV
1.2	PVC					
1.2.1	PVC water pipe	JM Eagle	Diamond C900 Blue - DR 14	Pipe Pressure Class	305 Psi	
1.2.2	Joint Restraint for PVC Pipe	SIP - Industries EZ Grip	Joint Restraint - for PVC	Technical Information	Max Pressure rating (Psi) - Approx. Weight (Lbs)	
		Star Pipe Products				



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Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	Notes
2.0	Water Service				
2.1	Meter installation - showing optional BYPASS - Commercial				
2.1.1	Water Service Pipe - (C) and ®	ADS PolyFlex Potable	Poly E SDR 9	3/4", 1", 1 1/4", 1 1/2", 2"	250 psi - 1 1/2" to 2"
		Endot Industries	Poly PE (SODR 9)	3/4", 1", 1 1/4", 1 1/2", 2"	200 psi - 1 1/2" to 2"
2.1.2	Service Saddles - Ductile Iron (A)	Smith-Blair	Double Stainless Steel Strap	1 1/4", 1 1/2", 2", 2 1/2" NPT Taps - 3", 4" NPT Taps	Up to 300 psi
2.1.3	Ballcorp Corporation Stops (B)	FORD	NL - FB1100-x-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.1.4	Grip Joint Coupling (D)	FORD	NL - C84-xx-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.1.5	Ball Valve Curb Stop (E)	FORD	B11-xxx-HT-67S-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.1.6	Angle Ball Meter Stop -	FORD	BA13-xxxW-NL style	AWWA Standard C800	300 psi
2.1.7	Angle Key Flange Meter Valves (H)	FORD	FV13-666W-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	80 psi
2.1.8	Straight Meter Coupling (J)	FORD	C38-xx-xx-NL style A	AWWA Standard C800 (ASTM B584, UNS C89833)	1", 1 1/4", 1 1/2", 2"
2.1.9	Ball Valve Curb Stop (T)	FORD	B41-xxxW-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	1", 1 1/4", 1 1/2", 2"
2.1.10	Ball Valve Curb Stop (P) Bypass	FORD	B11-xxx-NL Style	AWWA Standard C800 (ASTM B584, UNS C89833)	1" - Bypass
2.1.11	Stainless Steel Inserts	FORD	Insert-xx style	AWWA Standard C901 for Polyethylene	Pressure pipe and Tubing
2.1.12	Meter Boxes	Alliance - DFW Plastics, INC.	1200 Series	12" Standard Rectangular Box	DFW1730C - 12 - 1C
2.2	Meter installation - Double Service				
2.2.1	Water Service Pipe - (C) and ®	ADS PolyFlex Potable	Poly E SDR 9	3/4", 1", 1 1/4", 1 1/2", 2"	250 psi - 1 1/2" to 2"
		Endot Industries	Poly PE (SODR 9)	3/4", 1", 1 1/4", 1 1/2", 2"	200 psi - 1 1/2" to 2"
2.2.2	Service Saddles - Ductile Iron (A)	Smith-Blair	Double Stainless Steel Strap	1 1/4", 1 1/2", 2", 2 1/2" NPT Taps - 3", 4" NPT Taps	Up to 300 psi
2.2.3	Ballcorp Corporation Stops (B)	FORD	NL - FB1100-x-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.2.4	Ball Valve Curb Stop (E)	FORD	B11-xxx-HT-67S-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.2.5	Y - BRANCH	FORD		AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi



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Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	Notes
2.2.6	Angle Ball Meter Stop - Valves (F)	FORD	BA13-xxxW-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.2.7	Angle Key Flange Meter Valves (H)	FORD	FV13-666W-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	80 psi
2.2.8	Ball Valve Curb Stop (T)	FORD	B41-xxxW-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	1", 1 1/4", 1 1/2", 2"
2.2.9	Stainless Steel Inserts	FORD	Insert-xx style	AWWA Standard C901 for Polyethylene	Pressure pipe and Tubing
2.2.10	Meter Boxes	Alliance - DFW Plastics, INC.	1200 Series	12" Standard Rectangular Box	DFW1730C - 12 - 1C
2.3	Meter installation - Single Service				
2.3.1	Water Service Pipe - (C) and ®	ADS PolyFlex Potable	Poly E SDR 9	3/4", 1", 1 1/4", 1 1/2", 2"	250 psi - 1 1/2" to 2"
		Endot Industries	Poly PE (SODR 9)	3/4", 1", 1 1/4", 1 1/2", 2"	200 psi - 1 1/2" to 2"
2.3.2	Service Saddles - Ductile Iron (A)	Smith-Blair	Double Stainless Steel Strap	1 1/4", 1 1/2", 2", 2 1/2" NPT Taps - 3", 4" NPT Taps	Up to 300 psi
2.3.3	Ballcorp Corporation Stops (B)	FORD	NL - FB1100-x-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.3.4	Grip Joint Coupling (D)	FORD	NL - C84-xx-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.3.5	Ball Valve Curb Stop (E)	FORD	B11-xxx-HT-67S-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.3.6	Angle Ball Meter Stop - Valves (F)	FORD	BA13-xxxW-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	300 psi
2.3.7	Angle Key Flange Meter Valves (H)	FORD	FV13-666W-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	80 psi
2.3.8	Ball Valve Curb Stop (T)	FORD	B41-xxxW-G-NL style	AWWA Standard C800 (ASTM B584, UNS C89833)	1", 1 1/4", 1 1/2", 2"
2.3.9	Stainless Steel Inserts	FORD	Insert-xx style	AWWA Standard C901 for Polyethylene	Pressure pipe and Tubing
2.3.10	Meter Boxes	Alliance - DFW Plastics, INC.	1200 Series	12" Standard Rectangular Box	DFW1730C - 12 - 1C
2.3.11	Pressure Reducing Valves	Cla-Val	90G-01ABCS	Coordinate with WCID No. 17 staff for project specific requirements. WCID No. 17 staff may require additional features/options on the PRV.	
		Watts ACV	No. 115 Series		
		Singer Valve Inc.	Model 106-PR		



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Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	Notes	
3.0	Fire Hydrant					
3.1	FH					
3.1.1	Fire Hydrant	East Jordan EJ	5CD250 Three nozzle with operating cap dust shield	with 6" mechanical joint ANSI/AWWA C111/A21.11	According to Hydrant parts	FH and GV suppliers must match, and that all installed must be from same manufacturer
		Mueller Co.	Fire Hydrant with Bury 1' 6" min. longer at 6" intervals	316SS - F593 - F594 - Cast Iron A-126 Class B	According to Hydrant parts	
		American Flow control	Darling B84-B-5	AWWA C 502-250 - 250 p.s.i. - 500 p.s.i.	According to Hydrant parts	
4.0	Gate Valves					
4.1	GV					
4.1.1	Gate Valves	East Jordan EJ	Resilient Wedge Gate	M.J. x M.J.	According to Parts (2" -	
		Mueller Co.	2361 RWGV 350W w/	Mech Joint Ends - MJ x	According to Parts List	
		American Flow control				
4.1.2	Miscellaneous Gray Iron Casting	AccuCast	Valve Box Lid - C7, C5 Boot, Valve Box	ASTM A 48 Class 30	Estimated weight - 60 lbs	
		Star Pipe Products				
4.1.3	Valve Stem extension	EGW	Austin style			
5.0	Air & Vacuum Relief Valvs					
5.1	ARV					
5.1.1	ARVs, 2" and Smaller	ARI Flow Control	D-040	working pressure 0.05 - bar - testing pressure 10 bar	Max.working temperature 60 C - Max. Intermittent temperature 90 C	
5.1.2	ARVs Larger than 2"	ARI Flow Control	D-060	Sizes from 1" to 10"	DN25 - DN250	
		APCO	140 Series	Sizes from 2" to 8"	model 145C - 151C	
		Bermad	Model 4405			
6.0	Miscellaneous					
	OTHERS					
6.1	Casing Spacers	Water Works MFG		Casing spacers must be stainless steel.		
		Yorkville				
		Illinois				
		Bwm Company				
6.2	Marker	Rural Water Specialty				
6.3	Detectable tape	Pre-Approved Equal by		Weights, Measurements and Packaging - All tape must be 12" wide (minimum).		
		Pro-Line				
6.4	Pipe Bedding	Pre-Approved Equal by		3/8" F Sample must be provided to and approved by WCID No.17 personnel.		
		Texas Crushed Stone or				



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WASTEWATER					
Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	
1.00 Gravity Pipe					
1.10 Gravity Wastewater line - PVC					
1.1.1	Wastewater Pipe (Gravity)	IPEX	SDR	Schedule 40 - Schedule 80	Max. pressure
1.1.2	Fitting	GPK Products, INC.	45 degree Bend	D2665 DWV SCH 40 - 80	
1.1.3	Fitting	GPK Products, INC.	Reducer Coupling	D2665 DWV SCH 40 - 80	
1.1.4	Fitting	GPK Products, INC.	CAP H	D2665 DWV SCH 40 - 80	
1.1.5	Fitting	GPK Products, INC.	TEE-YEE HxHxH	D2665 DWV SCH 40 - 80	
1.1.6	Fitting	GPK Products, INC.	FIPT HUB Adapter	D2665 DWV SCH 40 - 80	
1.1.7	Fitting	GPK Products, INC.	Raised MIPT Plug	D2665 DWV SCH 40 - 80	
1.20 Manhole and Cleanout					
1.2.1	Cleaout Casting	Accucast			Estimated Weight (LBS) - 62 Lbs
1.2.2	Manhole cover casting	East Jordan Iron Works INC.	Sanitary sewer	Heavy Duty	
1.2.3	Precast Manhole	Capital Precast, INC.	Precast Manhole with base	Concrete 28 day Strenght - 5000 psi. Steel reinforcement ASTM A615 Grade 60	48"
2.00 Air & Vacuum Relief Valvs					
2.10 ARV					
2.1.1	FM / Effluent	ARI Flow Control	D-025	Size 2" - 4" 0.7 - 150 psi	
3.00 FORCE MAIN					
GATE VALVES - MISCELLANEOUS - PIPE - FITTINGS					
3.1	Pipe - Ductile Iron	Tyton Joint - U.S. Pipe - American Ductile Iron pipe - or approved equal	Ductile Iron - Pipe	Pipe diameter	Pipe diameter (Minimum, Maximun) (Inches)
				Pipe bell dimensions	Pipe outer diameter - bell outer diameter - socket depth (Inches)
				Pipe Pressure Class	Class 350 psi
3.2	Poly Wrap	White Rhino	Polyethylene Encasement for Ductile Iron Pipe	ANSI/AWWA C105/A21.5	Linear Low Density Polyethylene
3.3	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	Reducers - Ductile Iron	MJ Reducer, MJ X Large, MJ X Small, Plain end x Plain end	L - Wt.



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WASTEWATER					
Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	
3.4	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 90° - Bend Ductile Iron (A-WT)	MJ 90° Bend MJ X MJ Bends	A - Wt.
3.5	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 45° - Bend Ductile Iron (A-WT)	MJ 45° Bend MJ X MJ Bends	A - Wt.
3.6	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 22.5° - Bend Ductile Iron (A-WT)	MJ 22.5° Bend MJ X MJ Bends	A - Wt.
3.7	Mechanical Fittings - Ductile Iron	SIP Serampore Industries	MJ 11.25° - Bend Ductile Iron (A-WT)	MJ 11.25° Bend MJ X MJ Bends	A - Wt.
3.8	Solid & Tapped Caps	SIP Serampore Industries	Plugs - Ductile Iron	Size, T, Max Tap	Weight (Caps, Plugs)
3.9	Joint Restraint - Ductile Iron	SIP - Industries EZ Star Pipe Products	Joint Restraint - for Ductile Iron	Technical Information	Max Pressure rating (Psi) - Approx. Weight (Lbs)
3.10	Tapping Sleeve	Mueller Co. - American flow control - East Jordan - Tyler Union	Sleeve - Ductile Iron	"N" No. & Size of bolts including both ends	According to parts List
3.11	Resilient Wedge Gate valve	EJ	Rubber encapsulated cast iron	ASTM A126 CLASS B	
3.12	Miscellaneous Gray Iron Casting	AccuCast Star Pipe Products	Valve Box Lid - C7, C5	ASTM A 48 Class 30	Estimated weight - 60 lbs
3.13	Detectable tape	Pro-Line Pre-Approved Equal		Weights, Measurements and Packaging - All tape must be 12" wide (minimum).	
4.00	General Wastewater				
4.1	Pipe Bedding	Texas Crushed Stone or Pre-Approved equal by WCID No.17		3/8" F Sample must be provided to and approved by WCID No.17 personnel.	



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RECLAIMED WATER (EFFLUENT)

Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	
1.0 Pipe Material					
1.1	C900	Sanderson	C900	Purple in color	
2.0 Detectable Tape					
2.1	Detectable Tape	Presco	Purple	.0003" Aluminum Foil Laminated (Full Width) Between	Polyester and Polyethylene Sheeting
3.0 Poly Wrap					
3.1	Poly Wrap	BNG Components	8 mil Polyethylene Tubing	tensile strength will meet or exceed 3600 PSI	Purple w/ Reclaimed Water on side
4.0 Spacers					
4.1	APS STAINLESS STEEL BAND CASING SPACER	Advance Products and Systems	Stainless Steel	8" wide 14-gauge T-304 stainless steel	
5.0 MJ Pipe Fittings					
5.1	MJ x MJ Bends	SIP Industries	Ductile Iron	350 PSI for 2'-24' sizes	90°, 45°, 22.5°, 11.25°
5.2	MJ x PE Bends	SIP Industries	Ductile Iron	350 PSI for 2"-24"	90°, 45°, 22.5°, 11.25°
5.3	MJ x Flange	SIP Industries	Ductile Iron	350 PSI for 2"-24"	90°, 45°, 22.5°, 11.25°
5.4	MJ x MJ Tee	SIP Industries	Ductile Iron	350 PSI for 2"-24"	
5.5	MJ x FE Tee	SIP Industries	Ductile Iron	350 PSI for 2"-24"	
5.6	MJ x ST	SIP Industries	Ductile Iron	350 PSI for 2"-24"	
5.7	MJ Crosses	SIP Industries	Ductile Iron		
5.8	MJ x Flange Adapter	SIP Industries	Ductile Iron	3"-48"	
5.9	MJ Sleeve	SIP Industries	Ductile Iron	3"-48"	
6.0 Mechanical Joint Restraints					
6.1	PVC Restraints	SIP Industries	Standard Aklyd, DTM Enaml	4"-12"	Satndard SBR Gasket
7.0 Gate Valves					
7.1	Resilient Wedge Gate Valve	Mueller	Cast Iron Body	3"-12"	MJ x MJ ends
8.0 Valve Box					
8.1	Square Valve Box	East Jordan	Gray Iron		



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RECLAIMED WATER (EFFLUENT)

Item	Description	Approved WCID No. 17 Manufacturer	Type	Specifications	
8.2	Square Valve Lid	East Jordan	Gray Iron		
9.0	Air Release Valves				
9.1	ARV	A.R.I Flow Control	Nylon Base	Also available w/ Brass base	
10.0	Ceramic Epoxy Coating				
10.1	Protecto 401	Induron Coatings	Ceramic	amine cured novalac epoxy	
11.0	General Reclaimed				
11.1	Pipe Bedding	Texas Crushed Stone or Pre-Approved equal by WCID No.17		3/8" F Sample must be provided to and approved by WCID No.17 personnel.	