

<b>D. List of Approved Products</b>			
Last updated January 2018			
<b><u>Water Line Pipe, Fittings and Appurtenances</u></b>		<b>Other materials proposed for use must receive approval from the Augusta County Service Authority. It shall be the Developer's responsibility to provide documentation which demonstrates an alternate item is "equal" to the item found on the Approved Products List</b>	
<b><u>Ductile Iron Pipe &amp; Fittings</u></b>	<b><u>Manufacturer</u></b>	<b><u>Model/Series</u></b>	
<b><u>Pipe</u></b>	American (ACIPCO)		
	McWane Ductile (Includes Atlantic States Cast Iron Pipe Co., Clow)		
	US Pipe (Includes Griffin)		
<b><u>Fittings</u></b>	McWane Ductile (Includes Atlantic States Cast Iron Pipe Co., Clow)		
	Sigma		
	Star Pipe Products		
	Tyler Union		
	US Pipe (Includes Griffin)		
	NACIP		
<b><u>Joint Restraint</u></b>			
<b><u>Mechanical Joint Restraint</u></b>			
	EBAA Iron Inc.	Mega-Lug Series 1100	
	Ford	Series 1300	
	Romac Industries	Grip Ring, Roma-Grip	
	Sigma Co.	One-Lok - D-SLDE	
	Tyler Union	TUF-Grip	
	Star Pipe Products	Stargrip Series 3000, 3000S, Starlug	
<b><u>Push-On Joint Restraint</u></b>			
	EBAA Iron Co.	Mega-Lug Series 1700	
	Ford	Series 1390	
	Romac Industries	611	
	Sigma	SSLDH	
	Star Pipe Products	Stargrip Series 3100P, 3100S	
<b><u>Internal Restraining Gasket*</u></b>			
	US Pipe	Field Lok 350	
	Or as required by pipe manufacturer & approved by ACSA		
	*All joints containing these gaskets must be marked with warning tape approved by ACSA to indicate their presence		
<b><u>Casing Pipe End Seals</u></b>			
	Cascade	Style CCES	
	APS	Models AM, AC, AW	
	CCI-Pipeline Systems Inc.	Models ESW, ESC	
	Spider Manufacturing	N Seal Pull On End Seal	
	BWM	Models BWM-PO, BWM-WR	
<b><u>Gate Valves</u></b>			
	American Flow Control (American Darling)	2500	
	AVK	65, 45	
	Clow	2639	
	Kennedy	KS-RW	
	Mueller	2361	
<b><u>Butterfly Valves</u></b>			
	Bray		
	DeZurik		
	Kennedy		
	M&H		
<b><u>Plug Valves</u></b>			
	DeZurik		
	Kennedy		
	M&H		
<b><u>Valve Boxes &amp; Lids (2 piece boxes slip/sliding type)</u></b>			
	Bingham & Taylor	Fig. 4908	
	Capitol Foundry	Standard 2 pc Slide Type	
	Tyler Union	Series 6855	
	East Jordan Iron Works	Series 8555	
	"Heavy-duty" lids required in pavement areas or as designated by ACSA		

	<u>Manufacturer</u>	<u>Model/Series</u>	
<b><u>Fire Hydrants</u></b>			
	American Flow Control (American Darling)	B-84-B-5	
	AVK	Model 27	
	Clow	Medallion F2545 - 5.25	
	Kennedy Valve Co.	K-81 D - 5.25	
	Mueller	A-423	
<b><u>Air Release Valves</u></b>			
	Cla-Val	Series 34	
	Crispin Valve	M10	
	Val-Matic	15A	
<b><u>Blow Off Assembly 2"</u></b>			
	Kupferle	Mainguard 78	
	Mueller	A-412	
<b><u>Water Metering Equipment</u></b>			
<b><u>Small Valves 1/2" - 2-1/2"</u></b>			
	AY McDonald	2035 Series	
	Kennedy	Bronze	
	Milwaukee	1151	
	Nibco	T-113	
	Stockham (Crane Energy)	B-100	
<b><u>Small Ductile Iron Pipe &amp; Fittings - 1-1/2" - 3"</u></b>			
	Harco	(Internal and external epoxy coating required)	
<b><u>Copper Fittings &amp; Adaptors - 3/4" x 1"</u></b>			
	AY McDonald	(compression fittings only)	
	Mueller		
<b><u>Corporation Stop - 3/4" - 2"</u></b>			
	Ford	FB1000-Q NL Series	
	Mueller	B-25008N	
	AY McDonald	74701BQ	
<b><u>Meter Setter</u></b>			
<b>5/8", 3/4", 1"</b>	AY McDonald	Standard Yoke Bar	
	Ford	500 Series	
	Mueller	8B	
	AY McDonald	708UQM (U-Branch for dual connections in single box)	
<b>1-1/2"</b>	Ford 70 Series	VBB76-12B-11-66-NL	
	AY McDonald	720B615WWFF 665	
<b>2"</b>	Ford 70 Series	VBB77-12B-11-77-NL	
	AY McDonald	720B715WWFF 775	
<b><u>Angle Valve</u></b>			
<b>5/8", 3/4", 1"</b>	AY McDonald	74642BYQ	
	Ford	BA94-xxxW-Q-NL	
<b><u>Expander Wheel</u></b>			
	AY McDonald	4139 Series	
	Ford	EC Series	
<b><u>Box &amp; Covers</u></b>			
<b>5/8" - 1" meter</b>	<b><u>Box Manufacturer</u></b>	<b><u>Cover Manufacturer</u></b>	<b><u>Model/Series</u></b>
	Carson/MidStates		MS182420-NK (SKU No. 00182038)
	DFW		DFW-182424FTP
		Ford	A-32-T
		AY McDonald	74M-32A-T
		Nicor (Polymer Lid)	12.25PWATHO Type A
		Nicor (Polymer Lid)	12.25PWATHO Type LC
<b>Dual 5/8" meters</b>	Carson/MidStates		MS182420-NK (SKU No. 00182038)
	DFW		DFW-182424FTPN
		Ford	A-32-TT
		AY McDonald	74M-32A-TT
<b>1 1/2"-2" meter</b>	Carson/MidStates		MS3630B-NK
	DFW		DFW-3630
		Ford	MC-36-T
		AY McDonald	74M36T

	<u>Manufacturer</u>	<u>Model/Series</u>		
<b><u>Meter (all with touch read)</u></b>				
5/8"-10"	(ACSA to install)			
<b><u>Type K Copper Tubing</u></b>				
3/4" - 1"	Mueller Industries			
	Howell Metal			
	Cambridge-Lee (IUSA)			
<b><u>Plastic Water Service Tubing (PEX 3/4" - 2")</u></b>				
	Rehau	Municipex		
<b><u>PVC Pipe, Fittings, Valves</u></b>				
<b><u>PVC Schedule 80 - 1/2" - 16"</u></b>				
	Charlotte Pipe & Foundry			
	Harco			
	Harvel Plastics			
	National Pipe & Plastics			
	Spears			
<b><u>Backflow Preventer (models as designated by ACSA Cross-Connection Control Program)</u></b>				
	AMES			
	Conbraco (Apollo)			
	Febco			
	Hersey (Mueller)			
	Watts			
	Wilkins (Zurn)			
<b><u>Pressure Reducing Valves (PRVs) and Control Valves</u></b>				
	Cla-Val			
	Watts	(sizes 3" and smaller, lead free only)		
<b><u>Pipe Spacers in Casing (304 SS or HDPE)</u></b>				
	Cascade Waterworks Manufacturing	CCS		
	CCI-Pipeline Systems Inc.	CSS		
	RACI			
	BWM	SS		
	Spider Manufacturing	Stainless w/ Polymer Skids		
	APS	Stainless Steel (SS)		
<b><u>Repair Clamps and Dresser Couplings</u></b>				
	Ford			
	Romac			
	Smith Blair			
	Hymax (by TPS)			
<b><u>Tapping Saddle (all double strap)</u></b>				
	Ford	FS 202		
	Mueller	DR2S		
	Romac	202S		
	Smith Blair	317		
<b><u>Tapping Sleeve (all stainless steel)</u></b>				
	Ford	FAST, FTSS		
	Mueller	H-304SS		
	Romac	SST, STS420		
	Power Seal	3490		
	JCM	432		
<b><u>Tapping Valves</u></b>				
	American Flow Control	2500 series		
	AVK	65 or 45 series		
	Clow	2639 series/model F-6114		
	Kennedy	KS-RW		
	Mueller	T-2361		

	<u>Manufacturer</u>	<u>Model/Series</u>		
<b><u>Underground Pipe Insulation</u></b>				
	Pittsburgh Corning	FOAMGLAS Insulation		
<b><u>Water Sampling Station</u></b>				
	Kupferle	Eclipse #88 or MainGuard #94WM		
<b><u>Sanitary Frostproof Yard Hydrants</u></b>				
	Freeze Flow by Hoepfner	Executive Hydrant		
<b><u>Sanitary Sewer Pipe and Fitting Materials</u></b>				
<b><u>PVC Pipe &amp; Fittings (Non Pressure)</u></b>				
<b><u>PVC SDR 35 - 4"-15"</u></b>				
	Certainteed Pipe			
	Diamond Plastics Corp.			
	National Pipe & Plastics			
	North American Pipe Corporation			
<b><u>PVC C900 Water Pipe - (can be used through casing with joint restraint for sanitary sewer)</u></b>				
	Ipex			
	Diamond Plastics Corp.			
	National Pipe & Plastics			
	North American Pipe Corporation			
<b><u>HDPE</u></b>				
	National Pipe & Plastics			
	Ipex			
<b><u>PVC Fittings</u></b>				
	Harco Fittings			
	Multi Fitting			
<b><u>Repair Fittings and Clean-outs</u></b>				
	Fernco			
	Geneco (clean-outs)			
<b><u>Ductile Iron Pipe and Fittings (Force main, deep installation, other special conditions - Class 50)</u></b>				
<b><u>Pipe</u></b>				
	American (ACIPCO)			
	Atlantic States Cast Iron Pipe Co.			
	Clow			
	Griffin Pipe Products Co.			
	US Pipe			
<b><u>Fittings</u></b>				
	Clow			
	Griffin			
	Sigma			
	Star Pipe Products			
	Tyler Union			
	US Pipe			
<b><u>Sewer Connection Saddle</u></b>				
	Romac	CB (ACSA approved for use only on 4-6" connections)		
	Inserta Fittings Co.	Inserta Tee		

	<u>Manufacturer</u>	<u>Model/Series</u>		
<b><u>Manholes and Appurtenances</u></b>				
<b><u>Pre-Cast Reinforced Concrete</u></b>				
<b><u>Manholes</u></b>				
	Concrete Pipe & Precast (CP&P) (formerly Hanson Pipe / Americast)			
	Winchester Building Supply (WBS)			
	Tindall Corporation			
<b><u>Frame and Cover, Riser Rings</u></b>				
			<b><u>Cover</u></b>	<b><u>Frame</u></b>
	East Jordan Iron Works, Inc.	1040C (Standard)	1040ACLS with cam locks (Watertight)	1045Z
	U. S. Foundry & Mfg. Corp.	CMH1313AUGUSTA	SP-CMH1313CLWT (Watertight)	USF 755
<b><u>Cleanout Frame and Cover</u></b>				
	East Jordan Iron Works, Inc.	1566A		1566Z
	Capitol Foundry	PCO-1*MOD (non-traffic areas only)		
<b><u>Concrete Manhole Connectors (flexible boot)</u></b>				
	A-LOK Products, Inc.	Z-LOK Connector		
	NPC, Inc.	Kor-N-Seal		
	Press-Seal Gasket Cor.	Press-Boot		
		PSX Direct Drive		
<b><u>Grout</u></b>				
	Preco Industries, LTD	Preco-Patch		
	Master-Flow	713 Grout		
<b><u>Butyl Resin Sealers</u></b>				
	Concrete Products Supply Co.	CPS-210		
	Concrete Sealants, Inc.			
<b><u>Sewer Combination Air Valves</u></b>				
	Cla-Val	36-WW		
	Crispin Valve	US Series		
	Val-Matic	801A		
<b><u>Sewer Backflow Preventer Valves (for vented manholes only)</u></b>				
	Josam	67100A		
		(or approved equal to the above)		
<b><u>Pump Stations (water and sewer)</u></b>				
<b><u>Sewer Pumps</u></b>				
	Flygt Submersible			
	Gorman-Rupp			
<b><u>Flow Meters (magnetic)</u></b>				
	Toshiba			
	McCrometer			
<b><u>Float Switches (all mercury free)</u></b>				
	Flygt ENM			
	Conery Mfg., Inc.			
<b><u>Controls &amp; Electrical</u></b>				
	SquareD			
	Cutler-Hammer			
	Allan-Bradley			
<b><u>Variable Frequency Drive's (VFD'S)</u></b>				
	SquareD			
	Cutler-Hammer			
	Siemens			
	Benshaw			
	Allan-Bradley			

	<u>Manufacturer</u>	<u>Model/Series</u>		
<b><u>Hydro-Tanks</u></b>				
	Highland Tank			
	Adamson Global Technology Corporation			
<b><u>Pre-Fab Buildings</u></b>				
	Clear Flow Co.	Stonewall		
<b><u>Access Hatches (Load rating shall be H20 unless otherwise approved)</u></b>				
	Bilco Type K or KD			
	Halliday			
	E-Z Set Hatch Co.			
<b><u>Chlorine Feed Equipment</u></b>				
	Regal Gas			
<b><u>Chemical Feed Pumps</u></b>				
	LMI			
	Blue-White			
<b><u>Water Booster Pumps</u></b>				
	AMT (Gorman Rupp)			
	Goulds			
	Grundfos			
	Fairbanks Morse			
<b><u>Well Pumps</u></b>				
	Goulds			
	Grundfos			
<b><u>Vertical Turbine Pumps</u></b>				
	Fairbanks Morse			
	Goulds			
<b><u>Pump Motors</u></b>				
	Baldor			
	Franklin			
	Lincoln Electric			
	US Motor			
<b><u>Generators</u></b>				
	Caterpillar			
	Kohler Power Generation			
<b><u>SCADA - Pressure, Level and Temperature Transmitters</u></b>				
	Rosemount			
	Kobold			
<b><u>I/O Boards and Processors</u></b>				
	As supplied by Westerman Companies or approved equal			
<b><u>Radios and Antenna</u></b>				
	As supplied by Westerman Companies or approved equal			
<b><u>Antenna Pole/Tower</u></b>				
	As supplied by Shenandoah Tower or approved equal			
<b><u>All Stations Shall be Equipped With the Following Purchased from Westerman Co.</u></b>				
	1 - CT4000 Front End Processor			
	1 - CA1511 Modem			
	1 - I/O-4480 Status Card			
	1 - I/O 4240 Analog Input Card			
	1 - 10-AH Battery			
	1 - 150-15 Power Supply			
	1 - Metrocom Radio			
	1 - MFB-9157 Antenna			
	1 - 102A Phase Moniter			
	7 - AC Input Relays			
	2 - DC Input Relays			
	1 - 41003 Surge Protector			
	1 - 24"x30" NEMA 4 Box			
	1 - 25' Telephone Pole for Antenna			
	7/8" Coaxial Cable to Reach from the Control Panel to the Antenna			

<b><u>Safety Equipment</u></b>	<b><u>Manufacturer</u></b>	<b><u>Model/Series</u></b>		
<b><u>Full Body Harness</u></b>	DBI Sala/Capital Safety	Exofit Nex		
	3M	Evolution		
<b><u>Double-leg lanyard</u></b>	DBI Sala/Capital Safety	none at this time		
	3M	209550-0241		
<b><u>Single-leg Lanyard</u></b>	DBI Sala/Capital Safety	1246318		
	DBI Sala/Capital Safety	1246306		
	3M Protecta	1341001		
<b><u>Self Retracting Lanyard</u></b>	DBI Sala/Capital Safety	none at this time		
	3M	MS-16		
<b><u>Self Retracting Lanyard/Bucket Truck</u></b>	DBI Sala/Capital Safety	3101575		
<b><u>SRL for Tri-pod &amp; Davit Arm</u></b>	DBI Sala/Capital Safety			
<b><u>Climbing Helmet</u></b>	Kask	Super Plasma		
<b><u>Cross Arm Strap</u></b>	3M	4550-3		
	3M Protecta	AJ450A		
<b><u>High Visibility Safety Vest</u></b>	3M	Class 3		
<b><u>High Visibility Jacket</u></b>	Majestic	Style 75-1301		
<b><u>Hard Hat</u></b>	Fibre Metal by Honeywell	Model 3R Full Brim (1E)		
<b><u>Electrical Gloves</u></b>	Salisbury	D120 type 1		
<b><u>Gas Meter</u></b>	MSA	ALTAIR 4XR		
<b><u>Temporary/Portable Guardrail</u></b>	DBI Sala/ Capital Safety	7900060, 7900061		
<b><u>Tri-Pod</u></b>	DBI Sala/ Capital Safety			
<b><u>Parapet Wall</u></b>	Gaurdain Fall Protection	15170		
<b><u>Ventilator/Blower</u></b>	To Be Determined By ACSA As Needed			
	Allegro	Com-PAX-ial Blower		
<b><u>Rescue Davit</u></b>	DBI Sala/Capital Safety	Upper Davit Mast - 8518006		
		Lower Mast Ext. - 8518002		
<b><u>Self Retracting Lifeline</u></b>	DBI Sala/Capital Safety	3400853		
<b><u>Asbestos Removal Suit</u></b>	DuPont	Tyvek Suit w/ hood		
<b><u>Asbestos Removal Respirator</u></b>	To Be Determined By ACSA As Needed			
<b><u>Asbestos Disposal Bags</u></b>	To Be Determined By ACSA As Needed			