Hillsborough County Water Resources Department Appendix B: Pre-approved Products and Materials

ES	T. 1834	Hillsborough County Florida	Optimal County Limit 🜣	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
				1	•	Yes	1	-	U.S. Foundry	USF 227-SQ	Model # 8015108 Specifies "Hillsborough County Florida, EST. 1834, Foundary, <u>SANITARY</u> " and Hillsborough County logo on cover (POR-15 Coating required for all wastewater service)
			٦	Yes	Yes	•	Yes	-	U.S. Foundry	USF 227-AQ	Model 8015188 Specifies "Hillsborough County Florida, EST. 1834, Foundary, AIR RELEASE" and Hillsborough County logo on cover. (POR-15 coating required for sanitary sewer)
		Access Rings and Covers	No Limit	-	-	-	-	Yes	U.S. Foundry	USF 105-M	LPSS use only. "SANITARY SEWER" on cover. (POR-15 coating required.)
les	and Valve Boxes			-	-	Yes	1	-	East Jordan Iron Works (EJ)	1071A-LO (Cover) 1227Z (Ring)	"Year, Hillsborough County Florida, Sanitary Sewer" and Hillsborough County logo on cover (POR-15 Coating required when Force Main dumps into Gravity)
Frames	Valve			-	-	-	-	-			
		Manhole Cover and Cone	Limit	-	-	Yes	-	,	Ladtech	Wedge (Conical)	Approved for Traffic & Non-traffic applications. Shall be installed using a butyl sealant meeting ASTM C-990 per mfg. instructions.
Access	Access Frames	Casting Grade Adjusting Rings	No L	Yes	Yes	Yes	Yes	-	U.S. Foundry	Type A: Steel Adjusting Rings	Use approved Manhole Frame and Cover Protective Paint for Force Mains dumping into Gravity or for Wastewater ARV
¥	sec			- Yes	- Yes	- Yes	- Yes	- Yes	Tyler / Union	6850 Series	Screw Type With Base and Lid
	¥		Limit		Yes			Yes	Sigma / Russell Pipe Company		Screw Type With Base and Lid
		Valve Box and Cover		Yes	Yes	Yes	Yes	Yes	Star Pipe Products		Screw Type With Base and Lid
			S	Yes	Yes	Yes	Yes	Yes	Bingham & Taylor	Series 4905	Screw Type with Base, Stnd & Heavy Lid, Skirt and Risers
				-	-	-	-	Yes	Halliday Products, Inc	Series S-R	
		Wetwell Access and Frames (Hinged on discharge piping side)	٥ N	-	-	-	-	Yes	Water / Wastewater Systems, Inc.		Fabricated with water Dept. Approval
		· - 5 · · · · /		-	-	-	-	-			

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ES	Hillsborough County Florida	Optimal County Limit ☆	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
			Yes	-	•	-		Apollo Valves (Conbraco)	RPLF4A	1/2" - 2" (Required Specs: RPZ, ASSE 1013, AWWA C511, NSF-61)
			Yes	-	-	-	-	Apollo Valves (Conbraco)	RP4A	2½" - 10" (Required Specs: RPZ, ASSE 1013, AWWA C511, NSF-61)
			Yes	-	-	-	-	Wilkins (Zurn)	975XL2	3/" - 2" (Required Specs: RPZ, ASSE 1013, AWWA C511, NSF-61)
	Backflow Prevention Assemblies &	nit	Yes	-	-	-	-	Wilkins (Zurn)	375	2" - 10" (Required specs: RPZ, Epoxy Coated DI, ASSE 1013, AWWA C511, NSF-61)
, Etc.	Devices (For Hillsborough County owned & maintained assets)	No Limit	Yes		-	-	-	Ford Meter Box Company INC	HHS 31-323-NL	5/8" x 3/4" (Required specs: ASSE 1024, NSF-61) (ONLY for Residential water service connections where there is an Auxiliary Water System, or contains another Potential Cross-connectionl)
ntion			Yes					A.Y. McDonald	7411-3JE-43	NL - 3/4" swivel nut less saddle x FNPT (Required specs: ASSE 1024, NSF-61) (ONLY for residential services where there is auxilary irrigation reclaim cross connection control)
Prevention,			Yes		-	-	-	A.Y. McDonald	7411-3JE-54	NL - 1" swivel nut less saddle x FNPT (Required specs: ASSE 1024, NSF-61) (ONLY for Residential water service connections where there is an Auxiliary Water System, or contains another Potential Cross-connection)
\geq			Yes	Yes	Yes	Yes	-	Cascade	ccs	Stainless Steel (8" to 48")
	Casing Spacers	4	Yes	Yes	Yes	Yes	-	GPT Industries	C12 G2	8" width min, place every 6 to 8ft of linear pipe run
ackflow			Yes	Yes	Yes	Yes	-	RACI Spacers North America		Sizes Greater than 33" require PUD Design Exception
Be		ιit	Yes	-	-	-	-	Pro-Line Safety Products	Blue	
	Marking Tape (4.5 mil Thickness & 2" Width	Limit	_	-	-	Yes	-	Pro-Line Safety Products	Green	
	minimum)	2	-	Yes	-	-		Pro-Line Safety Products	Purple	
		-	-		Yes	-		A-Lok Products, Inc.	Z-Lok	
	Flexible Wetwell & Manhole to Pipe	Limit	-	-	Yes	-		Trelleborg	Kor-N-Seal	
	Connectors	N N	-	-	Yes	-	-	Press Seal Gasket	PSX Direct Drive	
		_	-	-	-	-	-			

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				Yes	Yes	-	Yes	Yes	U.S. Pipe Company		Sewer Aprvd Ceramic Epoxy needed	
				Yes	Yes		Yes	Yes	Sigma / Russell Pipe Company		Sewer Aprvd Ceramic Epoxy needed. Note: MJ Sleeves are not approved for use.	
	sbu		ij	Yes	Yes	-	Yes	Yes	American Ductile Iron Pipe Company		14" & Larger; SewerCeramic Exoxy Interior	
	ttir	Ductile Iron	No Limit	Yes	Yes	-	Yes	Yes	Tyler/Union		Sewer Aprvd Ceramic Epoxy needed	
w	i <u>E</u>	(C110 & C153)	 	Yes	Yes	•	Yes	Yes	North American Cast Iron Products (NACIP)		Sewer Aprvd Ceramic Epoxy needed	
ě	nge		Ž	Yes	Yes	•	Yes	Yes	One-Bolt Inc.		Mfg Restraint included; Sewer Ceramic Epoxy Interior	
ado). Sha			Yes	Yes	-	Yes	Yes	Star Pipe Products		Sewer Aprvd Ceramic Epoxy needed, Note: MJ Sleeves are not approved for use.	
& Service Saddles	Directional Change Fittings			Yes	Yes	-	Yes	Yes	Serampore Industries Private Ltd. (SIP)		Sewer Aprvd Ceramic Epoxy needed	
rvio	tior			-	-	Yes	-	-	Harrington Corp (HARCO)		Approved thru 8"	
Sel	reci	DVO for Laterala	Limit	-	-	Yes	•	-	Multi Fittings Corp		Approved thru 8"	
∞	οii	PVC for Laterals	ןΞ	-	-	Yes	•	-	National Pipe & Plastics Inc		4" to 15"	
les	(SDR 26)		å	-	-	Yes	-	-	Westlake Pipe & Fittings Corp.			
Saddles	(SDR 26)			-	-	Yes	•	-	GPK Products			
Ss				Yes	Yes	-	•	-	Smith-Blair (Sensus)	313	Epoxy coat DI body, dual bale	
ing				Yes	Yes	-	-	-	Ford Meter Box Company INC	F-202	E-coat DI body, dual bale	
Fittings, Tapping	Service Saddles		Limit	mit				Yes		Ford Meter Box Company INC	FS323-xxx-IP7-Q	4 to 12 inch pipe size Saddles, all stainless Steel components required for force main Air Release Valve Installations
gs,			 	Yes	Yes	-	-	-	JCM Industries	402	Shop coat DI body, dual bale	
ttin			Š	-	-	-	Yes	-	Continental Industries INC	PVC Super FastTap	3"-6", For LPSS use only	
证				Yes	Yes	-	-	-	JCM Industries	406	Epoxy coat DI body, dual SS Straps	
				-	Yes	-	-	-	Cascade	CNS2	Epoxy coat DI body, dual SS Straps	
				Yes	Yes	-	-	-	A.Y. McDonald	4826A	Epoxy coat DI body, dual straps	
	Specialized Fitting Type Items				Yes		Yes		Infact Corporation	Foster Adapter	* Must have Epoxy coating (10 mills thickness) * Must be Pre-Approved for use in Wastewater	

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			Ductile Iron (MJ ends x Flange Outlet)		Ye	s Yes	-	Yes	-	American Flow Control	Series 2800	4"-16" (For Use on DI & CI)
vice			Ductile Iron (MJ ends x lange Outle		Ye	s Yes	-	Yes	-	Mueller Co.	H-615	4"-24", 4"-12" for PVC (For Use on PVC, DI, & CI)
Ser		aps	Due (M. Flan		Ye	s Yes	-	Yes	-	Tyler/Union		6"-12" (For use on DI & CI)
<u> ಇ</u>	Φ	-	- ω <i>σ</i>		Ye	s Yes	-	Yes	-	Mueller Co.	H-304SS	4"-12" (For Use on PVC, AC, DI & CI)
ddles	leev	n Sizo	Fabricated SST (with flange outlet and wrap-around	gasket)	Ye	s Yes	-	Yes	-	JCM Industries	432	4"-12" (For Use on PVC, AC, DI & CI)
Fittings, Tapping Saddles & Service Saddles	Tapping Sleeve	Si	Fab S (with outh	Saske No I imit	Ye	s Yes	-	Yes		Cascade	CST-EX	4"-12" (For Use on PVC, AC, DI & CI)
ppir	арр	an	bon SST nge eal	7	Ye	s Yes	-	Yes	-	Smith-Blair (Sensus)	622	4"-30" (For Use on PVC, DI, & CI)
s, Ta	-	Less T	S 2, 7, 8) ()	Ye	s Yes	-	Yes	-	JCM Industries	412 ESS	6"-30" (For Use on PVC, DI, & CI)
tting			sated Car Steel / Coated, , with flar t, outlet s	gasket)	Ye	s Yes	-	Yes	-	Ford Meter Box Company INC	FTSC	4"-30" (For Use on PVC, DI, & CI)
Ξ			Fabrica (Epoxy hdwe, outlet,			-	-	-	-			

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	With Double Check Backflow Meter	3/"	No Limit	Yes	•	-		٠	Neptune Technology Group	T10DC (Dual Check)	
	Dacknow Weter		ž	-	-	-	•	-			
				Yes	Yes	1	-	-			
ပ္	Ö			Yes	Yes	•	-	-	Badger Meter Inc	Recordall Disk Series Model LP	
Meters	Service	3/"	No Limit	Yes	Yes	-	•	-	Badger Meter Inc	Recordall Disk Series Model 25	
Me	Φ (0. (0.	%" X	0 L	Yes	Yes	-	-	-	Neptune Technology Group	T10	
-		2	Z	Yes	Yes	•	-	-	Sensus Metering Systems	SRII	
Flow	Residential S Meters			Yes	Yes	-	-	-	Master Meter	BLMJ	
正	ĘΣ			-	-	-	•	-			
	ğ		<u> </u>	Yes	Yes	-	-	-	Mueller Systems	452-IIS	
	S S	=	Limit	Yes	Yes	-	-	-	Neptune Technology Group	T10	
	ά	_	No L	Yes	Yes	-	-	-	Sensus Metering Systems	SRII	
			Z	Yes	Yes	-	-	-	Master Meter	BLMJ	

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	4)			Yes	Yes	•	-	-	Badger Meter Inc	Recordall Disk Series Model 120	(FL x FL)> Requires flange adapter to convert to FIPxFIP
	ice		<u></u>	Yes	Yes	-	•	-	Mueller Systems	562 IIS	(FL x FL)> Requires flange adapter to convert to FIPxFIP
	Service	11/2"	Limit	Yes		-	-	-	Master Meter	Octave Ultrasonic	
	96	7	0N	Yes	Yes	•	•	•	Neptune Technology Group	T10	(FL x FL)> Requires flange adapter to convert to FIPxFIP
ပွ			_	Yes	Yes	•	•	-	Sensus Metering Systems	Omini T ²	(FL x FL)> Requires flange adapter to convert to FIPxFIP
E	ia			-	•	•	•	-			
Meters	Commercial			Yes	Yes	•	•	-	Badger Meter INC	Recordall Disk Series Model 170	(FL x FL)> Requires flange adapter to convert to FIPxFIP
	Ä			Yes	Yes	•	•	-	Mueller Systems	572 IIS	(FL x FL)> Requires flange adapter to convert to FIPxFIP
Flow	Ш		Ħ	Yes	Yes	-	-	-	Neptune Technology Group	T10	(FL xFL)>Requires flange adapter to convert to FIPxFIP
ᄑ	$\mathcal{C}_{\mathcal{C}}$	2	Limit	Yes	Yes	-	-	-	Neptune Technology Group	HP Turbine	(FL xFL)>Requires flange adapter to convert to FIPxFIP
		(1	1 0N	Yes	Yes	-	-	-	Badger Meter Inc	RecordAll-Turbo Series Model 200	(FL xFL)>Requires flange adapter to convert to FIPxFIP
	na		~	Yes	Yes	-	-	-	Sensus Metering Systems	Omini T ²	(FL xFL)>Requires flange adapter to convert to FIPxFIP
	Small			Yes	Yes	-	-	-	Mueller Systems	MVR 160 (Turbine)	(FL x FL)> Requires flange adapter to convert to FIPxFIP
				Yes		-	-	-	Master Meter	Octave Ultrasonic	

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			it		Yes	-	-	-	Badger Meter Inc	RecordAll-Turbo Series	
	(I)	3"	Lim	Yes	Yes	-	-	•	Neptune Technology Group	HP Turbine	
	<u>Ö</u> .	(1)	No Limit	Yes	Yes	-	-	٠	Sensus Metering Systems	Omini T ²	
	2			Yes		-	-	-	Master Meter	Octave Ultrasonic	
	Service		ij	Yes	Yes	-	-	-	Badger Meter Inc	RecordAll-Turbo Series	
	=	<u>"</u> 4	No Limit	Yes	Yes	-	-	-	Neptune Technology Group	HP Turbine	
ဟ	:ria	4	101	Yes	Yes	-	-	-	Sensus Metering Systems	Omini T ²	
Flow Meters	cial or Industrial PUD Requirement: ±2% Accuracy			Yes		-	-	-	Master Meter	Octave Ultrasonic	
et	d ι		ij	Yes	Yes	-	-	-	Badger Meter Inc	RecordAll-Turbo Series	
$\mathbf{\Sigma}$	_n	9	No Limit	Yes	Yes	-	-	-	Neptune Technology Group	HP Turbine	
	O r	0	9	Yes	Yes	-	-	-	Sensus Metering Systems	Omini T ²	
은	al C			Yes		4	•	-	Master Meter	Octave Ultrasonic	
-	Ci Pub		Limit	Yes	Yes	•	•	-	Neptune Technology Group	HP Turbine	
	9	<u>.</u> .	Lir	Yes	Yes	-	-	-	Sensus Metering Systems	Omini T ²	
	Ě		No	Yes		-	-	-	Master Meter	Octave Ultrasonic	
	Commercial PUD RE		it	Yes	Yes	-	-	-	Badger Meter Inc	RecordAll-Turbo Series	
	\circ	10"	No Limit	Yes	Yes	-	-	-	Neptune Technology Group	HP Turbine	
		7	101	Yes		-	-	-	Master Meter	Octave Ultrasonic	
				Yes	Yes	-	-	-	Sensus Metering Systems	Omini T ²	

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Yes Yes Master Meter Octave Ultrasonic Yes Yes Badger Meter Inc RecordAll-Compound Series (FL xFL)>Requires flange adapter to continuous co	Hillsborou County Flo	Hillsborou County Flo	ıgh orida	Optimal County Limit 🜣	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
PUTOCH TO Sensus Metering Systems Putoch To Sensus			1/2"	Limit	Yes	Yes	-	-	-	Sensus Metering Systems	Omini C ²	FLxFL requires flange adapter to convert to FIPxFIP
Purposed proposed by the past of the past			_	No	Yes		-		-	Master Meter	Octave Ultrasonic	
Tru/Flo Compound Tru/Flo Compound Series Tru/Flo Compound Tru				mit	Yes	Yes	•	•	-	Badger Meter Inc	RecordAll-Compound Series	Turbine x Disk (FL xFL)>Requires flange adapter to convert to FIPxFIP
Tru/Flo Compound Tru/Flo Compound Series Tru/Flo Compound Tru/F	and	and	2) Li	Yes	Yes	-	-	-	Sensus Metering Systems	Omini C ²	(FL xFL)>Requires flange adapter to convert to FIPxFIP
Yes Master Meter Octave Ultrasonic	þ	pe/		ž	Yes		-	•	-	Master Meter	Octave Ultrasonic	
Yes Master Meter Octave Ultrasonic	O g	Q Q		<u> </u>	Yes	Yes	-	-	-	Neptune Technology Group	Tru/Flo Compound	
Yes Master Meter Octave Ultrasonic	Ce.	5 <u>a</u> 6	3".	-im	Yes	Yes	-	-	-	Sensus Metering Systems	Omini C ²	
Yes Master Meter Octave Ultrasonic	8	F-61	"	1 0	Yes	Yes	•	•	-	Badger Meter Inc	RecordAll-Compound Series	
Yes Master Meter Octave Ultrasonic	er NS tic s	NS NS			Yes		•	•	-	Master Meter		
Yes Master Meter Octave Ultrasonic				ıit	Yes	Yes	-	•	-	Badger Meter Inc		
Yes Master Meter Octave Ultrasonic	S sks	She she	<u>4</u>	Lin		Yes	•	•	-		·	
Yes Master Meter Octave Ultrasonic	ers for	OU ers	`	9		Yes	-	-	-	Sensus Metering Systems	Omini C ²	
Yes Master Meter Octave Ultrasonic		on et D			Yes		-	•	-	Master Meter		
Yes Master Meter Octave Ultrasonic	- E p			۱it			-	-	-		·	
Yes Master Meter Octave Ultrasonic			 0	Lin			-	-	-	- · · · · · · · · · · · · · · · · · · ·		
Yes Master Meter Octave Ultrasonic) wo		9 N		Yes	-	-	-			
Yes Master Meter Octave Ultrasonic	99	ပ စု					-	•	- 1			
Yes Master Meter Octave Ultrasonic		Гhes	_	im.		Yes	-	-	-			
		F	8	lo L	Yes		-	-	-	Master Meter	Octave Ultrasonic	
Yes Master Meter Octave Ultrasonic			-		- V	- V	-	•	-	Canaua Matarin - Contra	O	
- 169 Indiate Meter Octave Ottrasoriic			0	Limi		Yes						
				9	165		•	•		INIQSICI INICICI	Octave Ottrasoriic	

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		Ī	_				>	>	B M (= 0)	50M B	
	G	_	Limit	Yes		-	-	•	Badger Meter Inc (Fire Series)	FSMA RecordAll	
	Fire Service FM and NSF-61 approved. be used for combination of fire and domestic service.	 	No L	-	-	-	-	•		2	
	S C		Ž	Yes		-	-	-	Master Meter	Octave Ultrasonic	
	sstir			Yes	-	-	-	-	Sensus Metering Systems	Omini F ²	
	ome	_	No Limit	Yes	-	-	-	-	Neptune Technology Group	HP Protectus III	
	g G	4) L	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSAA RecordAll	
	anc	4	Ž	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSMA RecordAll	
	fire			Yes		-	-	-	Master Meter	Octave Ultrasonic	
(0	م <u>۾</u> ۾			Yes		-	-	-	Sensus Metering Systems	Omini F ²	
) L	S S S S S S S S S S S S S S S S S S S		ij	Yes	-	-	-	-	Neptune Technology Group	HP Protectus III	
Flow Meters	Fire Service FM and NSF-61 approved.	9	No Limit	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSAA RecordAll	
Ле	er ۱۳۵۱ ۱۳۵۱		9	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSMA RecordAll	
	S. 3-7.00		~	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSAA-DB RecordAll	6" x 1.5" Disk Series
	ש אַ סַ			Yes		-	-	-	Master Meter	Octave Ultrasonic	
9	Fire Mand N			Yes	-	-	-	-	Sensus Metering Systems	Omini F ²	Potable>Must be NSF-61 stamped and approved.
ш	L S S S		≓	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSMA RecordAll	
	l l pe	<u>.</u>	L i	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSAA RecordAll	
	nay		No Limit	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSAA-DB RecordAll	
	Compound meters may		~	Yes	-	-	-	-	Neptune Technology Group	HP Protectus III	
	ete			Yes		-	-	-	Master Meter	Octave Ultrasonic	
	E p			Yes	-	-	-	-	Sensus Metering Systems	Omini F ²	
	, n	=	No Limit	Yes	-	-	-	-	Neptune Technology Group	HP Protectus III	
	odu	10"	Ϊ́	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSMA RecordAll	
	Con		Ž	Yes	-	-	-	-	Badger Meter Inc (Fire Series)	FSAA	
	9			Yes		-	-	-	Master Meter	Octave Ultrasonic	

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					<u> </u>	P • .				Toducis and Materials	
EST	Hill Cou	Isborough unty Florida	Optimal County Limit 🌣	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
		Ceramic Epoxy	Limit	-	-	Yes	Yes	Yes	Induron Protective Coatings	Protecto 401	Applied at 40 mils thick nominal by a certified applicator. See Induron website for special handling considerations.
sms	(For Ductile Ir Required fo	on Pipes and Fittings) or all Sanitary sewer oplications.	No Lir	-	-	Yes	Yes	Yes	Permite Corporation	Permox-CTF	Applied at 40 mils thick nominal by a certified applicator. See Permite Corporation website for special handling considerations.
ţe	ap	phoations.		-	-	-	-	-			
Systems	Manhole F	rame and Cover	Limit	-	-	Yes	-	-	POR-15, INC	Prime: Prep & Ready Finish: POR-15	
uc	Prote	ective Paint	NoL	-	-	-	-	-			
<u>Si</u>			Z	Ŀ		<u> </u>	-	-			
rros	vr Valves ent) 5yrs)			Yes	Yes	-	Yes	Yes	Tnemec	(Primer) Typoxy Series 27WB (Finish) Endura Shield II 1074U (Ggloss)	
Co	Aerial o s, and ¹ ⁄////////////////////////////////////	Primer)		Yes	Yes	-	Yes	Yes	Tnemec	(Primer) Typoxy Series 27WB (Finish) Endura-Shield 1075U (Semi-Gloss)	
Paints and Corrosion	Painting Materials for Aerial or Above Grade Piping, Fittings, and Valves (NACE Classified C5-1 Environment) VOC ≤2.8 lbs/gal, Est. Service Life ≥ 5yrs)	(Rust Inhibitive Field Primer) & (Exterior Finish)	Limit	Yes	Yes		Yes	Yes	Sherwin-Williams	(Primer) Dura Plate 235 Multi-Purpose Epoxy (Finish) Waterbased Acrolon 100 Urethane	
ain	ng Matu le Pipir klassifie s/gal, E	Inhibit (Exter	Š	Yes	Yes	-	Yes	Yes	Sherwin-Williams	(Primer) Macropoxy 646-100 (Finish) Waterbased Acrolon 100 Urethane	
$oldsymbol{ u}$	Paintir ve Grad ∨ACE C ≤2.8 lb	(Rust		Yes	Yes		Yes	Yes	International Paint	(Primer) Intercure 200 HS (Finish) Interthane 990 HS	
	Abov (VOC			-	-	-	-	-			

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					ΛP	<u> </u>	1417		1 1c-approved 1	roducts and materials		
ES	Hillsbo County	orough / Florida	Optimal County Limit 🌣	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations	
				-	•	Yes	1	Yes	IET Systems	IET System 3: Prime: DS-101 (min 5 mils dft) Intermediate: DS-301 (min 125 mils dft) Finish: DS-401 (min 5 mils dft)		
				-		Yes	•	Yes	CCI Spectrum Incorporated	SpectraShield (min 500 mils dft)	* Credentials must be checked for all coating applicators.	
	(\$1			-	-	Yes	-	Yes	Raven Lining Systems	Primer: Raven 155 (min 8 mils dft) Finish: Raven 405 (min 125 mils dft)	* The applicator shall present current certification of training by	
	llatior	New	Limit	-		Yes		Yes	Sauereisen	Intermediate: 210T (min 125 mils dft) Finish: 210G (min 20 mils dft)	the manufacturer in all aspects (technical and practical) of the corrosion protection system to the Engineer of Record (EOR) or the County Project Manager.	
ns	nS Instal	Applications	No Li	-	-	Yes		Yes	Warren Environmental	Finish: 301-14 (min 100 mils dft)	* All documentation must indicate the name of the crew leader, with at least five (5) years of experience in the usage of the specific corrosion protection system.	
Syster	Systems ed on all Ins			-	•	Yes	1	Yes	Industrial Maintenance Group (IMG)	SC 3900 FUB: (min: 100-200 dft)	* When applicable for a project, training via manufacturer "shadowing" shall be mentioned in the documentation provided to the project manager or EOR."	
sion §	tion S e applie					Yes		Yes	Sprayroq, LLC.	SprayWall: New construction minimum is 125 mils for corrosion barriers. For structural applications minimum thickness is 250 mils.		
2	9 d			-	-	-	-	Yes	Vortex Sevices-Applicator	Quadrex-GeoKrete - 0.5 inch to new		
oľ	ot ot			-	-	Yes	•	Yes	CCI Spectrum Incorporated	SpectraShield (min 500 mils dft)		
and C	-				-	-	Yes	1	Yes	IET Systems	IET System 3: Prime: DS-101 (min 5 mils dft) Intermediate: DS-301 (min 125 mils dft) Finish: DS-401 (min 5 mils dft)	
ints a				-	•	Yes	•	Yes	Raven Lining Systems	Underlay: Raven 705CA (min 8 mils dft) Primer: Raven 155 (min 8 mils dft) Finish: Raven 405 (min 125 mils dft)	The applicator shall present current certification of training by the manufacturer in all aspects (technical and practical) of the	
Ра		Rehabilitation	No Limit	-	-	Yes		Yes	Sauereisen	Underlay: F-121 Intermediate: 210T (min 125 mils dft) Finish: 210G (min 20 mils dft)	corrosion protection system to the Engineer of Record (EOR) or the County Project Manager.	
	unty	Applications	No L	-	-	Yes	-	Yes	Warren Environmental	Intermediate: 301-18 (min 500 mils dft) Finish: 301-14 (min 100 mils dft)	* All documentation must indicate the name of the crew leader, with at least five (5) years of experience in the usage of the specific corrosion protection system.	
	100)			-	-	Yes	-	Yes	Industrial Maintenance Group (IMG)	Underlay: 40 mils cementitious (typ) Finish: SC 3900 FUB (120 mils)	* When applicable for a project, training via manufacturer "shadowing" shall be mentioned in the documentation provided	
							Yes		Yes	Sprayroq, LLC.	SprayWall: Existing construction minimum is 125 mils for corrosion barriers. For structural applications minimum thickness is 250 mils.	to the project manager or EOR."
				-	-	Yes	•	Yes	Vortex Services Applicator	Quadrex-GeoKrete - 1-inch thickness to structural Restoration		

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			it	Yes	Yes	-	Yes	Yes	U.S. Pipe Company		Push-On gasket Tyton.
sd	Pipe Soating is Iry Sewer IS)	Push-On, Flanged, and Mech Joint	Limit	Yes	Yes		Yes	Yes	American Ductile Iron Pipe Company		Push-On gasket Fastite.
sdwn	Pipe Soating ary Sel	(4" & up)	No	Yes	Yes		Yes	Yes	McWane Inc Ductile Iron Pipe Group		Push-On gasket Tyton / Fastite.
Pu	Iron oxy C Sanite			-	•	•	•	-			
∞ ర	ile I Epc for S oplic		it	Yes	Yes	-	Yes	-	U.S. Pipe Company	TR Flex Joint	
ipe	Ductile Iron Pip (Ceramic Epoxy Coat required for Sanitary S Applications)	With Mfg Restrained Joint	Limit	Yes	Yes	-	Yes	-	McWane Inc Ductile Iron Pipe Group	TR Flex Joint	
۵			Joint	No I	Yes	Yes		Yes	-	American Ductile Iron Pipe Company	Flex Ring
	_		_	-	•		-	-			

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			it	-	Yes	-	-	-	Diamond Plastics Corporation		
		2" or 3"	Limit	-	Yes	-	-	-	National Pipe & Plastics Inc		
		(AWWA 2241)	0 L	-	Yes	-	-	-	Westlake Pipe & Fittings Corp. (North American Pipe Corp.)		
			No	-	-	-	-	-	(treating and production)		
				Yes	Yes	Yes	Yes	-	Diamond Plastics Corporation	AWWA C900	
			Limit	Yes	Yes	Yes	Yes	-	JM Eagle	AWWA C900	
	(8	4" to 12" (AWWA C900)	Ľ	Yes	Yes	Yes	Yes	-	National Pipe & Plastics Inc	AWWA C900	
	cation	(AWWA 0300)	No	Yes	Yes	Yes	Yes	-	Westlake Pipe & Fittings Corp. (North American Pipe Corp.)	AWWA C900	
	ecifii			-	-	V	-	-	Diamand Blooting Company tion		
I ₹	Spe		it	_		Yes Yes	÷	-	Diamond Plastics Corporation JM Eagle	Gravity Sewer Pipe	
Pumps	ipe iical	4" to 12"	Limit	-		Yes	-	-	National Pipe & Plastics Inc	Plastic Sewer Main (PSM) Pipe	
න් ජ	PVC Pipe (Approved DR in Technical Specifications)	(ASTM D 3034)	No L	-	-	Yes	-	-	Westlake Pipe & Fittings Corp. (North American Pipe Corp.)	, , ,	
O	₽			-	-	•	•	•			
Pipe	red DF	14" and Above	ıit	Yes	Yes	Yes	Yes	٠	JM Eagle	Big Blue	Specify appropriate pipe color for service.
	Approv	AWWA C900 (Public Utilities Department	o limit	Yes	Yes	Yes	Yes	-	Diamond Plastics Corporation	Trans 21	Specify appropriate pipe color for service.
	*	Design Execption Required)	No	Yes	Yes	Yes	Yes	-	Westlake Pipe & Fittings Corp. (North American Pipe Corp.)		Specify appropriate pipe color for service.
			Yes	Yes	-	Yes	-	Westlake Pipe & Fittings Corp. (North American Speciality Products)	Certa-Lok C900 RJ	4"-12"	
		With Min Destuding	Limit	Yes	Yes	-	Yes	-	Westlake Pipe & Fittings Corp. (North American Speciality Products)	Certa-Lok C900 RJIB	4"-12"
	With Mfg Restrained Joint	No Li	Yes	Yes	-	Yes	-	Underground Solutions	Fusible C-900®, Fusible PVC™ (FPVC™)	Approved 4"-30".	
				Yes	Yes	-	Yes	•	Underground Solutions	TerraBrute CR C-900	4" to 12", *Requires Design Exception to collect information.

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							<u> </u>						
	EST. 1	Hil Co	lsbo unt	orough y <mark>Florida</mark>	Optimal County Limit 🌣	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
						Yes	•		•	•	Performance Pipe (A Chevron Phillips Chemical Company)	DriscoPlex 5100 Ultra-Line	Black tube. Must have BLUE stripe for Potable Applications. PE4710 SDR 9
		Polyethyle	ne Pii	ne 1" & 2"	Limit	-	Yes		•	•	Performance Pipe (A Chevron Phillips Chemical Company)	DriscoPlex 5100 Ultra-Line	Black tube. Must have LAVENDER stripe for Reclaimed Applications. PE4710 SDR 9
		/ A\A/	ethylene Pipe, 1" & 2' (AWWA C901)			Yes	-	-	-	-	Endot	Endopure	PE 4710 SDR 9
		(AVV	WAC	901)	N _S	-	Yes	•	•	٠	Endot	Endocore RWT	PE 4710 SDR 9
					_	Yes	-	•	•	-	Charter Plastics	Blue Ice CTS Tubing	PE 4710 SDR 9
U	n					-	Yes	-	-	-	Charter Plastics	Lavender Ice CTS Tubing	PE 4710 SDR 9
2	2					Yes	•	-	•	•	ADS	Polyflex CTS Tubing (Blue)	PE 4710 SDR 9
3						-	Yes	-	-	-	ADS	Polyflex CTS Tubing (Lavender)	PE 4710 SDR 9
A. Dimne	8	ype	Low-Pressure (Light Duty) Applications	Grinder	2	-		-	-	- Yes	Sulzer	ABS Piranha 09 /2D	
Ding	<u></u>	gal eller T Pum _l				-	-	-	-	•	Xylem	Flygt	>60 gpm peak design flow
		ntrifu J Imp sible	Overhung Impeller Tyg Submersible Pumps Chobbet/Criter Chobbet/Criter Chobbet/Criter Chobbet/Criter Chobbet/Criter Chobbet/Criter	NonClog	7	-		-	-	-	Pentair	Hydromatic	>60 gpm peak design flow, S4T requires ≥ 8-ft wetwell and oversized hatch. Rejected Models: H4Q, S4P
		Cen Ing Ing/	dd	Chopper/Cutter	2	-	-	-	-	-	Xylem	Flygt	
	Centrifugal Overhung Impeller Type	hu bri	φp	Chopper/Culler	' '	-	-	-	-	-	Pentair	Hydromatic	
		Over Sul	urize	0: 1		-	-	-	-	Yes	Xylem	Flygt	< 80 gpm peak design flow
			Press	Grinder	7	-	•	-	-	-			

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		MJ - Ring (Serration Style)	1	ïť	Yes	Yes	1	Yes		Ford Meter Box Company Inc.	Uni-flange 1300	2" to 36"
t s		Ring on Si		Limit	Yes	Yes	•	Yes	-	Sigma	PV-Lok PWM	2" to 48"
⊆				l on	Yes	Yes	-	Yes	-	JCM Industries	610	4" to 12"
Ø	PVC - DIP	Seri		=					-	Star Pipe Products	1000G2	4" to 12"
-		3)	180		-	-	١	·	-			
ď					Yes	Yes	-	Yes	-	EBAA Iron Company	2000 PV	4" to 36"
$\check{\alpha}$		MJ - Gland (Wedge Action)			Yes		-	Yes	-	Sigma	One-Lock SLCE	
	<u> </u>	and	0 0	l ji	Yes	Yes	-	Yes	-	Ford Meter Box Company Inc.	Uni-Flange 1500	
Pipe		ĕ ĕ		Limit	Yes	Yes	-	Yes	-	Star Pipe Products	4000G2	3" to 12"
<u> </u>		ال agb	in testing	2	Yes	Yes	-	Yes	-	Romac Industries	GripRing	
		≥ Me	(~	Yes	Yes	-	Yes		Tyler/Union	Tuf Grip TLP	
					Yes	Yes	-	Yes	-	Serampore Industries Private Ltd. (SIP)	EZPVCU Ultra	4" to 12"

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					Yes	Yes	-	Yes	-	EBAA Iron Company	1600TD	4" to 12"
		Ring	2.4	ı≓	Yes	Yes	•	Yes	-	Ford Meter Box Company Inc.	Uni-flange 1390	4" to 12"
				≒	Yes	Yes	-	Yes	-	Star Pipe Products	1100G2	4" to 12"
		Ring		No Limit	Yes	Yes	-	Yes	-	Star Pipe Products	3100P	4" to 12"
Ś		₾		~	Yes		-	Yes	-	Sigma	PV-Lok PWP	
			15.0		Yes	Yes	-	Yes	-	Sigma	One-Lok SLDEH	
Pipe Restraints	- DIP MJ - Ring (Serration Style)	J - Ring erration Style)	1	No Limit	Yes	Yes	-	Yes	-	Star Pipe Products	1000G2	4" to12 "
est	DIP - DIP	MJ - (Ser St	3	S N	Yes	Yes	-	Yes	-	JCM Industries	610	4" to 12"
α	□				Yes	Yes	-	Yes	-	EBAA Iron Company	MegaLug 1100	
Φ		<u></u>			Yes	Yes	-	Yes	-	Ford Meter Box Company Inc.	Uniflange 1400	
<u>O</u>		MJ - Gland (Wedge Action)		⊭	Yes	Yes	-	Yes	-	Sigma	One-Lok D-SLDE	
△		MJ - Gland /edge Actio		No Limit	Yes	Yes	-	Yes	-	Sigma	One-Lok SLDE	
		J - (dge		0	Yes	Yes	-	Yes	-	Romac Industries	GripRing	
		Š Ž		Z	Yes		-	Yes	-	Star Pipe Products	StarGrip 3000	4" to 12"
					Yes	Yes	-	Yes	-	Tyler/Union	Tuf Grip TLD	
			NA COLUMN TO LOCAL		Yes	Yes	-	Yes	-	Serampore Industries Private Ltd. (SIP)	EZD-Grip	3" to 24"
S					Yes	Yes	-	Yes	-	Ford Meter Box Company Inc.	Uniflange 1350	4" to 12"
in					Yes	Yes	-	Yes	-	Ford Meter Box Company Inc.	Uniflange 1390	4" to 12"
ū	Ų	бL		Ħ	Yes	Yes	-	Yes	-	EBAA Iron Company	1600 (& 1600TD)	4" to 12"
st	ď	- Ring		Ē	Yes	Yes	-	Yes	-	JCM Industries	JCM 620	4" to 12"
e e	PVC - PVC	Ring -	g g	No Limit	Yes	Yes	-	Yes	-	Sigma	PV-Lok PWP	2" to 12"
4)	₹	Έ		Įž	Yes	Yes	-	Yes	-	Star Pipe Products	1100G2	4" to 12"
ď			Car.		Yes	Yes	-	Yes	-	Star Pipe Products	4100P	4" t0 12"
Ē	Pipe Kestraints				-	-	-	-	-	Serampore Industries Private Ltd. (SIP)	EZ-Grip PTP Series	4" to 12"

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					Yes	Yes	-	Yes	-	U.S. Pipe Company	TR Flex Gripper Ring	4" to 36" (For use with TR Flex Joint DI Pipe)
					Yes	Yes	-	Yes	-	McWane Inc.	TR Flex Gripper Ring	4" to 36" (For use with TR Flex Joint DI Pipe)
ints	S	OIP-DIP		Limit	Yes	Yes	-	Yes		U.S. Pipe Company	Field Lok 350 Gasket	4" to 12" (Requires Prior PUD Approval) Not for directional drill or above grade use. Review assembly instructions before use.
tra	eou	DIP.		NoL	Yes	Yes	-	Yes	-	U.S. Pipe Company	HDSS	12" to 48" (Requires Prior PUD Approval)
Res	Pipe Restraints Miscellaneous				Yes	Yes	-	Yes	-	American Ductile Iron Pipe Company	Fast-Grip Gasket	4" to 12" (Requires Prior PUD Approval) Not for directional drill or above grade use. Review assembly instructions before use.
Pipe					Yes	Yes		Yes		McWane Inc.	Sure Stop 350 Gasket	4" to 12" (Requires Prior PUD Approval) Not for directional drill or above grade use. Review assembly instructions before use.
		٧C		Limit								
		PVC-PVC		No Li	Yes	Yes	-	Yes	-	Ransom International LLC. Subsidiary of McWane Inc.	RieberLoc- For C900 PVC DR 18 a& 14	4" to 12" (Requires Prior PUD Approval) Not for directional drill or above grade use. Review assembly instructions before use.

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									10 approvoc		
Hillsb Count	oro ty Fl	ugh Iorida	Optimal Cou	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
	or n 'alve					-	Yes	-	DFW Plastics, Inc	DFW37C-12-AF1-SARV-HILLS	Black with lid lettering "Hillsborough County Sewer ARV"
or er or	<u> </u>) (B0	8	-	-	-	-	-			
ent Box for for for for formal for for formal for for formal for formal for formal for for formal for for formal for for for formal for for formal for	ant Box for astewater orce Main telease Valv		No Limit	1			Yes		DFW Plastics, Inc	DFW37C-AF1-SARV-LID-HILLS	Black with lettering "Hillsborough County Sewer ARV"
	_ -	səx	mit	-	•	-	Yes	-	DFW Plastics, Inc	DFW37C-12-BODY	Wastewater>Black
,	Air	se Bc		-	•	-	-	-			
				-	-	-	-	-			
		oc : Lid)	mit	Yes	-	-	-	-	DFW Plastics, Inc	DFW37C-12-AF1F-DEEP-HILLS	Potable>Black
es		Coml	J Li	-	Yes	-	-	-	DFW Plastics, Inc	DFW37C5-12-AF5F-DEEP- HILLS	Reclaimed>Pantone 522C
30x	rice			-	-	-	-	-			
r Meter Bo	Serv	şp	-imit	Yes	-	-	-	•	DFW Plastics, Inc	DFW37C-AF1FDEEP-HILLS-LID	Potable>Black
	gle (Ľ	No L	-	Yes	•	•	-	DFW Plastics, Inc	DFW37C5-12-AF5F-DEEP-HILLS- LID	Reclaimed>Pantone 522C
ate	Sin	xex	nit	-	-	-	-	-			
>	S	e Bo	Lir	Yes	-	-	-	-	DFW Plastics, Inc	DFW37C-12-BODY	Potable>Black
		Bas	Š	-	Yes	-	-	-	DFW Plastics, Inc	DFW37C5-12-BODY	Reclaimed>Pantone 522C
	SM	Vent Box for Wastewater Force Main Air Release Valve	Vent Box for Wastewater Force Main Air Release Valve & Lids Combo Combo	Vent Box for Wastewater Wastewater Force Main Force Main Air Release Valve Single Service Combo (Base & Lids) Lids Combo (Box & Lids) Combo (Box & Lids) Limit No Limit No Limit No Limit Optimal County Limit	Vent Box for Pvastewater Nater Meter Boxes Vent Box for Proce Main Force Main Air Release Valve Boxes Lids Combo (Box & Lid) Lids Combo (Box & Lid) Limit No Limit No Limit No Limit No Limit Optimal County Limit Imit Imit	Vent Box for Wastewater Vent Box for Wastewater Force Main Air Release Valve Boxes Lids Combo (Base & Lid) Base Boxes Lids Combo (Box & Lid) Combo (Box & Lid	Vent Box for Wastewater Vent Box for Wastewater Force Main Air Release Valve Single Service Air Release Valve Boxes Combo (Base & Lid) Base Boxes Lids Combo (Box & Lid) Combo (Box & Lid) <td>Vent Box for Wastewater Force Main Air Release Valve Single Service Single Service Single Service Lids Combo (Base & Lids (Base & Lid) Limit No Limit No Limit No Limit No Limit (Combo (Box & Lid) (Co</td> <td>Vent Box for Wastewater Force Main Single Service Combo Limit Base Boxes Lids Combo Lids Combo Box & L</td> <td> New Pastics New Pastics </td> <td> Nester Mater Mater Modern Nester Mater Mater Modern Nester Mater Mater Modern Nester Mater M</td>	Vent Box for Wastewater Force Main Air Release Valve Single Service Single Service Single Service Lids Combo (Base & Lids (Base & Lid) Limit No Limit No Limit No Limit No Limit (Combo (Box & Lid) (Co	Vent Box for Wastewater Force Main Single Service Combo Limit Base Boxes Lids Combo Lids Combo Box & L	New Pastics New Pastics	Nester Mater Mater Modern Nester Mater Mater Modern Nester Mater Mater Modern Nester Mater M

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EST.	Hillsb Count	oro ty F	ugh Iorida	Optimal County Limit ☆	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
			Combo (Box &Lid)	Limit	Yes	-	-	-	-	DFW Plastics, Inc	DFW39C-12-AF1F-DEEP-HILLS	Potable>Black
		d)	CC (Box	S	-	Yes	-	-	-	DFW Plastics, Inc	DFW39C5-12-AF5F-DEEP-HILLS	Reclaimed>Pantone 522C
		Serivce	Lids	Limit	Yes	-	-	-	-	DFW Plastics, Inc	DFW39C-AF1F-DEEP-HILLS-LID	Potable>Black
တ္သ		Dual Se	Li	No L	-	Yes	1	•	-	DFW Plastics, Inc	DFW39C5-AF5F-DEEP- HILLS LID	Reclaimed>Pantone 522C
Vent Boxes		<u></u>	<u> </u>	ij	-	-	-	-	-			
B	es		Box	Limit	-	-	-	-	-			
nt	Ŏ		Base	8	Yes	-	•	-	-	DFW Plastics, Inc	DFW39C-12-BODY-HILLS	Potable>Black
e l			Ш	_	-	Yes	-	-	-	DFW Plastics, Inc	DFW39C5-12-BODY-HILLS	Reclaimed>Pantone 522C
and \	Mete		nbo k Lid)	Limit	Yes	-	-	-	-	DFW Plastics, Inc	DFW1730C-12-AF1F-DEEP HILLS	Potable>Black
ice a	Water Meter Boxes	se	Combo (Box & Lid)	No L	-	Yes	-	-		DFW Plastics, Inc	DFW1730C5-12-AF5F-DEEP HILLS	Reclaimed> Pantone 522C
Surface	>	ial U	šn	Limit	Yes	-	1	-	-	DFW Plastics, Inc	DFW1730C-12-AF1F-DEEP-HILLS - LID	Potable>Black
		Commercial	Lids	No L	-	Yes	-	-	-	DFW Plastics, Inc	DFW1730C5-12-AF5F-DEEP- HILLS - LID	Reclaimed> Pantone 522C
		Cor	oxes	Limit	Yes	Yes	-	-	-	DFW Plastics, Inc	DFW1730-12-BODY-HILLS	Potable>Black
			Base Boxes	No Li	-	Yes	-	-	-	DFW Plastics, Inc	DFW1730C5-12-BODY-HILLS	Reclaimed> Pantone 522C

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SM C	orough ty Florida	Optimal County Limit	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations	
				Yes	Yes	-	-	-	Crispin Multiplex Manufacturing	PL 20	Air-Release Valve.
				Yes	Yes	-	-	-	Valmatic	45	Air-Release Valve.
				Yes	-	-	-	-	A.R.I. Flow Control	D-040PT02	Combination Air Valve for Potable Water
			Ħ	-	Yes	-	-	-	A.R.I. Flow Control	D-021PT02	Combination Air Valve for Reclaimed Water
Air-Release and Combination Air Valves			No Lim				Yes	-	A.R.I. Flow Control	D-025TPV02	Combination Air Valve. Vacuum check valve required (D-025TPV02) unless a major vacuum condition exists and is specified by the design engineer via a design exception (D-025PT02 is same without one-way valve in high vacumme applications). Reinforced Nylon body, SST Hardware and trim.
			_	Yes	_	Yes	-	H-Tec	Model 986		
			_	_		_	-				
Ball ster	m and Boo	dy shall be 316		-	-	-	-	Yes	Jamesbury Corporation (Metso Automation)	Eliminator Series	Full Port Female IP (NPT) Inlet and Outlet Pump Stations; For discharge piping gauge port isolation Approved up to 1/2*.
floating ball	type, full shers shal	port. Handle, nuts Il be 300 series	Limit	-		-	Yes	Yes	FNW	Figure 220	Full port Female IP (NPT) Inlet and Outlet Pump stations: For discharge piping gauge port isolation Force mains: For ARV isolation and/or pressure release Typically 1* and 2*
			No	-	•	-	-	Yes	Jamesbury Corporation (Metso Automation)	Full Bore Series 9000	Full port, ANSI Class 150 Flanged Grinder Pump Stations: For discharge piping isolation Typically 2"
				-	-	-	-				
		linge	mit	Yes	Yes	-	-	Yes	Kennedy Valve Company (McWane)/ M&H (McWane)	Style 1106LW (lever & weight)	2" to 12". Bronze to bronze seat.
_ω		Metal & silient H Arm	o Lir	Yes	Yes	-	-	Yes	Kennedy Valve Company (McWane)/ M&H (McWane)	Style 106AW/ 159-02 (lever & weight)	14" and up. Resilient to bronze seat.
alve:	ger	Res	ž	Yes	Yes	-	-	Yes	American Flow Control	50-SC Series	8" to 14"
Check Va		t	-	-	-	-	Yes		Series 500A		
	pper Disk		-	-	-	-	Yes	Val-Matic	5XXDG	XX represents size Must have stainless steel cover bolts, disc position indicator, and backflow actuator. Resilient hinge arm style.	
	Fla	٥N	-	-	-	-	Yes	GA Industries (North American Valve and Gate Group)	RF200-D	Must have stainless steel cover bolts, disc position indicator, and backflow actuator.	
	Air-Combi	Air-Relea Combination Ball Vi Ball stem and Bo Stainless Steel, no floating ball type, full and washers sha Stainless	Air-Release and Combination Air Valves Ball Valves Ball stem and Body shall be 316 Stainless Steel, non-lubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel	Check Valves Air-Release and Combination Air Valves Ball Valves Ball Stem and Body shall be 316 Stainless Steel, non-Inpricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Amm Amm Activity Amm Ac	Check Valves Air-Release and Combination Air Valves Ball Valves Ball Valves Ball Stem and Body shall be 316 Stainless Steel, non-lubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Value Publication Steel Aum Ves Yes Yes Yes Yes Yes Yes Yes Ye	Check Valves Air-Release and Combination Air Valves Ball Valves Ball Valves Ball Valves Stainless Steel, non-lubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Timil No Primit No Prim	Air-Release and Combination Air Valves Ball Valves Ball Valves Stainless Steel, non-lubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel NO Climit NO Climit Ves Yes -	Air-Release and Combination Air Valves Ball Valves Ball Valves Ball stem and Body shall be 316 Stainless Steel, non-lubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Ves Yes Yes Publication Air Valves Diagram Washers Shall be 300 series Stainless Steel Diagram Washers Shall be 316	Air-Release and Combination Air Valves Ball Valves Ball stem and Body shall be 316 Stainless Steel	Air-Release and Combination Air Valves Ball Valves Ball stem and Body shall be 316 Stainless Steel, non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Stainless Steel Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type, full port. Handle, nuts and washers shall be 300 series Stainless Steel Non-ubricated free-floating ball type in the floating free floating ball type in the floating free floatin	Air-Release and Combination Air Valves Ball Valves Ball Valves Ball stem and Body shall be 316 Stainless Steel Stainless Steel Stainless Steel

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EST. 1	H C	lillsborough ounty Florida	Optimal County Limit ☆	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
				Yes	Yes			Yes	U.S. Pipe Company	A-USP0-6	Cast Iron, NRS, Flanged
					100			100	o.o. i ipo company	7, 55, 5 5	Sast non, rive, rianged
				<u> </u>		-	•				
				Yes	Yes	-	-	-	U.S. Pipe Company	R-USP0-6	Cast Iron, OS&Y, Flanged
			±								
			Limit	Yes	Yes	•	•	Yes	U.S. Pipe Company	A-USP0-8	Cast Iron, NRS, NPT
		2" to 3"									
			Š	Yes	Yes	-	-	Yes	Mueller Co.	A-2361 Series	DI, NRS, NPT, Flanged or OS&Y, T304 SST hardware, EPDMdisc/gaskets, (No OS&Y at pump station)
				Yes	Yes	-	-	-	U.S. Pipe Company	R-USP0-8	Cast Iron, OS&Y, NPT
				Yes	Yes	_	-	Yes	Clow Valve Co. (McWane)	Model 2638, 2639 & 2640	Ductile or Cast Iron, NRS or OS&Y (No OS&Y at Pump Station)
	515			Yes	Yes	_		Yes	American Flow Control	2500 Series	Ductile Iron, NRS or OS&Y (No OS&Y at Pump Station)
	Ö								7 anonean rien conse	2000 001100	
(0)	es			F	-		÷	_			
ğ	3			Yes	Yes				U.S. Pipe Company	USP0 Series	Cast Iron, NRS or OS&Y
Valves	Gate Valves (Resilient Seated C509 & C515)				Yes		•	Yes	Mueller Co.	A-2361 Series	DI, NRS, Flanged or OS&Y, T304 SST hardware, EPDMdisc/gaskets, (Aquagrip x Aquagrip - Must have Restraint Bolts), (No OS&Y at pump station)
	er C		ΞI	-	-	-	-	Vac	II C. Dina Cammany	A LICEO C	Cost Iron NIPS Floored
	ilise	4" to 12"	Limit	Yes	Yes	-		Yes Yes	U.S. Pipe Company American Flow Control	A-USP0-6 2500 Series	Cast Iron, NRS, Flanged Ductile Iron, NRS or OS&Y (No OS&Y at Pump Station)
	(Re	7 10 12		Yes		_	-	Yes	Kennedy Valve Company (McWane)		Ductile or Cast Iron, NRS or OS&Y (No OS&Y at pump station)
			٥N	Yes	Yes	-	-	Yes	Clow Valve Co. (McWane)	Model 2638	Ductile or Cast Iron, NRS or OS&Y (No OS&Y at Pump Station)
				Yes	Yes	-	-	Yes	Clow Valve Co. (McWane)	Model 2639	Ductile or Cast Iron, NRS or OS&Y (No OS&Y at Pump Station)
				Yes	Yes	-	-	Yes	Clow Valve Co. (McWane)	Model 2640	Ductile or Cast Iron, NRS or OS&Y (No OS&Y at Pump Station)
				Yes	Yes	-	•	-	M&H Valve Co. (McWane)	4068	Cast Iron, OS&Y, Flanged
				Yes		-	-	Yes	M&H Valve Co. (McWane)	4067	Cast Iron, NRS
				Yes		-	-	Yes	American Flow Control	2500 Series	Ductile Iron, NRS or OS&Y (No OS&Y at Pump Station)
			Ħ	Yes	Yes	-	-	Yes	Clow Valve Co. (McWane)	Model 2638	Ductile Iron, NRS or OS&Y (No OS&Y at Pump Station).
		14" & larger	Limit	Yes	Yes	-	-	Yes	Mueller Co.	2361 Series	DI, NRS or OS&Y, T304 SST hardware, EPDM disc/gaskets, (No OS&Y at pump station)
	14" 8		٥N	Yes	Yes	-	-	-	U.S. Pipe Company	USP1 Series	DI, NRS or OS&Y, T304 SST hardware, EPDM disc/gaskets * Larger than 36" is not NSF 61 Certified
				_	-	-	-	Yes	U.S. Pipe Company	A-USP1-6	DI, NRS, Flanged, T304 SST hardware, EPDM disc/gaskets
				-	-	-	-	-			

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EST. 1	B34 SM	lillsborough ounty Florida	Optimal County Limit 🜣	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
	Cor	poration Stops		Yes	-	-	-	-	Ford Meter Box Company INC	FB 1700-7-NL	Ball[Male AWWA IP Thread Inlet] x [Threaded Female IP Outlet]
				Yes	-	-	-	-	Mueller Co.	B20046N	Ball[Male AWWA IP Thread Inlet] x [Threaded Female IP Outlet]
			Limit	Yes			-	-	Ford Meter Box Company INC	FB-1100-X NL (Entire Line)	Dell [Male AMMA ID Thread Inlet] v [CTC Tuking Outlet]
			ш	Yes				-	Ford Meter Box Company INC	FB-1100-X NL (Entire Line)	Ball[Male AWWA IP Thread Inlet] x [CTS Tubing Outlet]
				Yes		_	-	-			
			Ŷ	Yes	Yes	-	-	-	Mueller Co.	P25028N	Ball[Male AWWA IP Thread Inlet] x [CTS Tubing Outlet]
			_	Yes					A V. McDonold	73149B	Ball - MNPT x FNPT
		_		Yes					A.Y. McDonald A.Y. McDonald	73149B 74704B-22	Ball - MNPT x CTS Compression
			ţ				H				· · · · · · · · · · · · · · · · · · ·
			Limit	Yes	Yes	-	-		Ford Meter Box Company INC	B41-XXXW-NL(Entire Line)	Ball[CTS Tubing Inlet] x [Threaded Female IP Outlet]
	(Curb Stops	Ξ	Yes	Yes	-	-	-	A.Y. McDonald	76102W-22	Ball - CTS compression x FNPT
			Š								
			_	V	₩	-			Food Mater Base Commence INC	DAO YOYAM NII (Firefine Line)	Dall 10TO Taking lated of Mater Connel Net Outland
			Ħ	Yes		-	-	-	Ford Meter Box Company INC	B43-XXXW-NL (Entire Line)	Ball[CTS Tubing Inlet] x [Meter Swivel Nut Outlet]
			Ш	-	Yes	_	-	-	Ford Meter Box Company INC	BRW 43-XXXW-NL (Entire Line)	Ball[CTS Tubing Inlet] x [Meter Swivel Nut Outlet]
S	Single Service		Limit	Yes		-	-	-	Mueller Co.	P24350N	Ball[CTS Tubing Inlet] x [Meter Swivel Nut Outlet]
Ð			Ŷ	Yes					A.Y. McDonald	76100MW-22	Ball - CTS compression x meter
Valves			Z		Yes				A.Y. McDonald	76100MW-22RWC	Ball - CTS compression x meter
>		Angle Service	Limit	Yes	Yes	-	-	-	Ford Meter Box Company INC	BA43-342W-NL	Ball[CTS Tubing Inlet] x [Meter Swivel Nut Outlet]
	alves	7 m.g.c Co. 1100	No	Yes	Yes	-	-	-	A.Y. McDonald	74602B-22	Ball - CTS compression x meter
	Meter Valves			Yes	-	-	-		Ford Meter Box Company INC	Assembly: UVB43-42W-NL	2 Ball Angle Valve [Female IP Inlet] X [Meter Swivel Nut Outlet] Branch Pipes [CTS Tubing Inlet] x [2 Male AWWA IP Outlets]
	Σ	Branched or Dual	Limit						Ford Meter Box Company INC	Assembly: UVBS43-42W-NL	2 Straight Ball Valve [Female IP Inlet] X [Meter Swivel Nut Outlet] Branch Pipes [CTS Tubing Inlet] x [2 Male AWWA IP Outlets]
		Service	No Li	-	Yes	-	-	-	Ford Meter Box Company INC	Assembly: UVBRW43-42W	2 Ball Angle Valve [Female IP Inlet] X [Meter Swivel Nut Outlet] Branch Pipes [CTS Tubing Inlet] x [2 Male AWWA IP Outlets]
			Z	Yes	Yes	-	-	-	Mueller Co.	Must be ordered as Assembly Two B24265N One P15363N	(Installed Only as Assembly) 2 Ball Angle Valves [Female IP Inlet] X [Meter Swivel Nut Outlet] Branch Pipes [CTS Tubing Inlet] x [2 Male AWWA IP Outlets]
				Yes	Yes	-	-	-	A.Y. McDonald	709U2BW-22	CTS compression x meter swivel nut with saddle
										1	

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					_		<i></i>	UI A	B: Pre-approved Pro	ducts and mate	ilais
EST. 16	34 SM	Hillsborough County Florida	Optimal County Limit ⇔	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
		rip-tight shut off be area, flow.		1	١	1	Yes		GA Industries	Plug Valves	
		ing 10 mils minimum si and shall provide d rection. ust equal 100% of pip are required. action of predominant scifications on the job					Yes		Val-matic	2 inch – 12 inch series 5000.3XF and 14 inch to 36 inch series 5000F.3XF	
Valves	Plug Valves	Must have internal and external epoxy coating 10 mils minimum. Valves and gearing shall be rated for a minimum of 150 psi and shall provide drip-tight shut off with this pressure in either direction. 3"-12" round port, 14"-36" rectangular port area must equal 100% of pipe area, 304 stainless steel external hardware required. For wastewater, seat-end must face into the direction of predominant flow. Inspectors may request packing slip to verify specifications on the job site.	No Limit	1	-	1	Yes	1	Mueller Company	Milliken Valve Company Ballcentric Plug Valves	
		Must have internal an aring shall be rated for with this ound port, 14"-36" re 304 stainless rastewater, sear-end ctors may request pa		1	-	100	Yes	100	induiti Company	Henry Pratt Company Ballcentric Plug Valves	
		Valves and ge: 3"-12" r For w Inspe		-	-	1	Yes	•	Dezurik	PEF	

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						-12-1			D. 1 10-approved 1 1		
EST. 18:	H	lillsborough ounty Florida	Optimal County Limit ⇔	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
				Yes	Yes	-	Yes	Yes	M&H Valve Co. (McWane)	4751	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
			Limit	Yes	Yes	-	Yes	Yes	Clow Valve Co. (McWane)	F-6114	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
		4" to 12"		Yes	Yes	-	Yes	Yes	Mueller Co.	T-2361 Series	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
10	ves		Š	Yes	Yes	-	Yes	Yes	U.S. Pipe Company	T-USP0 Series	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
/es	Tapping Valves			Yes	Yes	-	Yes	Yes	American Flow Control	2500 Series	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
Valves				Yes	Yes	-	Yes	Yes	American Flow Control	2500 Series	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
>	арр		nit	Yes	Yes	-	Yes	Yes	Clow Valve Co. (McWane)	F-6114	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
	-	14" & larger	Limit	Yes	Yes	-	Yes	Yes	Mueller Co.	T-2361 Series	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
			Š	Yes	Yes	-	Yes	Yes	U.S. Pipe Company	T-USP1 Series	Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
				-	-	•	-	•			Tapping valves for force mains are considered sacrificial and an additional plug valve is required.
				Yes	-	-	-	-	American Flow Control	B-84-B-5	304 Stainless Steel required on hydrant external and bonnet internal hardware and extension kit hardware.
				Yes	-	-	-	-	Clow Valve Co. (McWane)	Medallion F-2545 (EcoBrass)	304 Stainless Steel required on hydrant external and bonnet internal hardware and extension kit hardware.
	Fire Hydrants		2	Yes	-	-	-	-	Kennedy Valve Company (McWane)	Guardian K81D	304 Stainless Steel required on hydrant external and bonnet internal hardware and extension kit hardware.
				Yes	-	-	-	-	Mueller Co.	Super Centurion (A-423)	304 Stainless Steel required on hydrant external and bonnet internal hardware and extension kit hardware.
				Yes	-	-	-	-	U.S. Pipe Valve & Hydrant Company (Mueller)	Metropolitan (M-94)	304 Stainless Steel required on hydrant external and bonnet internal hardware and extension kit hardware.
				-	-	-	-	-	_		

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Appendix B. Fre-approved Fre									oducts and materials		
Hillsborough County Florida			Optimal County Limit ⇔	POTABLE WATER	RECLAIMED WATER	WASTEWATER (Gravity)	WASTEWATER (Force Main)	WASTEWATER (Pump Station)	Manufacturer	Part Name/ Model Number	Important Notes and Stipulations
Miscellaneous	Automatic Meter Reader (AMR) Meter Register		3	Yes	Yes	-		•	Transparent Technologies (T ²)	Innov8	
				Yes	Yes	-	-	-			
	Compound Pressure Gauges Assembly		Limit	-		-	•	Yes	Ashcroft (Gauge)	25-1009-SWL-02L-XGV-Specify Desired Pressure Range (Silicone Filled)	Must have Ashcroft Diaphragm Seal (50-310SS-02T-XCK) Silicone Filled. If a larger gauge is needed such as the 45, the type 100 diaphragm seal is required.
			8	-		-		-			
	Automatic Flushing Systems Use only as requested by HC-PUD: Careful analysis of cross connection prevention, storm water system surcharge, grounding,			Yes	•			-	Hydro-Guard	HG-1, HG-2, HG-5, and HG-6	Use air gap backflow prevention models. Notify fire department when HG-6 is in use.
	and dechlorinat be considered	å	-	-	-	-	-				
	Wet Well Washer and		Limit	-	-	-		- Yes	Anue	EP-1300 Series	Grinder stations not included. Used only in special conditions. Requires HCWRD Engineering Approval.
liscel	Wastewater Conditioner			-		-	-				
2		HDPE			_	Yes			USSI	Inflow Defender	Structural ribbing, no vent, woven nylon handle, 304 SST hdwe,
	Manhole Inserts	(Can only be used Off-Pavement)									neoprene gasket
		304 SST (Collector & Arterial Roads)	Ē			Yes			Contractor Specialties & Supply Co	No Flow In Flow	No vent, 304 SST handle and hdwe, neoprene gasket
			No Limit			Yes			Sealing Systems Incorporated (SSI)		No vent, 304 SST handle and hdwe, neoprene gasket
						Yes			Inflow Systems, Inc.	Inflow Shield	No vent, 304 SST handle and hdwe, neoprene gasket
				-	-	Yes	-	-	Southwestern Packing & Seals	Rainstopper	Vent, 304 SST handle and hrdwr, synthetic elastomer (EL) gasket
	Valve Stem Alignment	Not Required	Limit	Yes	Yes		Yes	Yes	EMMA Sales LLC	BoxLoc	Recommended, but Not Required
	Allynment		No	-	-	-	-	-			

^{◊ -} PRC approval of a product will not be given, or considered, as part of an active bid or bid review.

^{◊ -} Where this list may conflict with the Technical Specifications, the Technical Specifications take precedence.

^{◊ -} the use of these pre-approved products in some applications may require a Deign Exception.

<sup>V - When deemed to be in the best interest of the County, the County reserves the right to:

1) remove a product from this list without notice, and 2) limit the number of pre-approved products or manufacturers</sup>