

## PRODUCTS USED IN CONSTRUCTION

Revision Date: 4/30/2025

The purpose of this form is to document the products that were used in construction of the below named project. Unless otherwise noted, shop drawings submittals are not required for pre-approved products. When shop drawings are required for pre-approved products, they are to be submitted to the Engineer of Record (EOR) and then to the Water and Wastewater Services (WWS) Project Manager for approval. Shop drawing submittals to the EOR and then to the WWS Technical Standards Committee (TSC) for approval are required when the option 'Other' is chosen.

It is WWS' desire that one manufacturer be used for a product per construction project. For example, all fire hydrants should be the same manufacturer and model; all bell joint restraints should be the same manufacturer and model; all ductile iron pipe and fittings should be from the same manufacturer, etc. WWS understands that circumstances my require the use of more than one manufacturer per product on a project. See the separate document "Guideline for Single Manufacturer per Construction Project" for more information.

Some pre-approved manufacturer's listings contain just manufacturer's names while other listings include manufacturer's names and model or type designations. Unless otherwise noted, inclusion of model or type designations in the manufacturer's listing means only that designated model or type has been pre-approved.

Chloramine resistance is required for rubber material in contact with potable water. Several manufacturers either provide chloramine resistant material as the standard configuration of their product or offer chloramine resistant material as an option to be specified at the time of purchase. In the case where chloramine resistant material is an optional purchase item, the products have been identified with the label [CRTag]. Products with the [CRTag] label must be delivered to the construction site with a factory applied tag stating the name of the material used and that the compound is chloramine resistant. The following materials are deemed chloramine resistant: EPDM, isobutyl-isoprene, fluorocarbons and silicones. Any other materials such as nitriles (NBR), SBR, natural rubbers and neoprenes must be approved by the TSC.

PROJECT INFORMATION		
WWS Project Number:		
Project Name:		
Construction Contractor Name:		
Engineer of Record Name:		
Form Completed By:		
First Submittal Date:		
Revised Date:		



## **Contents**

Pipe		5
1.1	Ductile Iron Pipe & Fitting	5
1.2	High Density Polyethylene Pipe & Fittings (4" and above)	5
1.3	PVC Pressure Pipe for Gravity Sewer and Reclaimed Water	5
1.4	PVC Non-Pressure Pipe (6" - 15")	e
Fittings a	and Accessories	e
2.1	Casing Spacers for Carrier Pipe 6" and Above	e
2.2	Fire Hydrants	ε
2.3	Flanged Fittings	7
2.4	Flexible Couplings	7
2.5	Mechanical Joint Fittings	7
2.6	PVC Fittings for Gravity Sewer Up To 12' In Depth	8
2.7	Tapping Sleeves (Ductile Iron) *	8
2.7	Tapping Sleeves (Stainless Steel) *	8
2.8	Transition Couplings	9
2.9	Pressure Pipe Repair Clamps	9
2.10	Grooved Piping	9
Adapters	s and Joint Restraints	10
3.1	Bell Joint Restraint (Ductile Iron Pipe)	10
3.1	Bell Joint Restraint (PVC Pipe)	10
3.2	Ductile Iron Flange Adapters	10
3.3	Gripping Ring Joint Restraint (Ductile Iron Pipe)	11
3.3	Gripping Ring Joint Restraint (PVC Pipe)	11
3.4	Mechanical Joint Restraint (Ductile Iron Pipe)	11
3.4	Mechanical Joint Restraint (PVC Pipe)	12
3.5	Gripping Gasket Joint Restraint for Ductile Iron and PVC	12



V	alves		12
	4.1	Air Release Valves for Potable Water and Reclaimed Water	12
	4.2	Air Release Valves for Wastewater	13
	4.3	Automatic Blowoffs	13
	4.4	Butterfly Valves (12" and Larger)	13
	4.5	Check Valves for Lift Stations	14
	4.6	Check Valves for Potable Water	14
	4.7	Double Disk Gate and Tapping Valves (12" - 48")	14
	4.8	Eccentric Plug Valves *	15
	4.9	Gate and Tapping Valve	15
	4.10	Insertion Valves *	16
	4.11	Potable Water Air Release Valve Inflow Preventers	16
	4.12	Pressure Reducing Valves	16
٧	/ater Ser	vice Lines and Appurtenances	16
	5.1	Check Valves for Water Services	16
	5.2	Corporation Stops	16
	5.3	Couplings and Adapters for Water Service	17
	5.4	Curb Stops/ Meter Valves	17
	5.5	Double Strap Service Saddles	17
	5.6	Meter Flanges for Water Services	18
	5.7	Polyethylene Tubing for 1" and 2" Water Services	18
	5.8	Type K Copper Tubing for 1" and 2" Water Services *	18
	5.9	U-Branches	18
	5.10	Yokes	19
	5.11	Dual Check Valves For Water Services	19
~	leters		19
	6.1	Compound Fireline Water Meters	19
	6.2	Water Meters (3", 4", 6", 8")	19
	6.3	Fire Protection By-Pass Meters (1") *	19



	6.4	Service Meters (5/8", 1", 1-1/2", 2") *	. 20
S	ystem S	tructures, Boxes and Covers	. 20
	7.1	Box and Cover	. 20
	7.2	Cleanout Box and Cover	. 20
	7.3	Manholes *	. 20
	7.4	Manhole Risers	. 21
	7.5	Manhole Connectors	. 21
	7.6	Manhole Grade Rings (Concrete) *	. 21
	7.6	Manhole Grade Rings (Plastic)	. 21
	7.7	Manhole Ring and Cover	. 21
	7.8	Meter Box and Lid	. 22
	7.9	Valve Boxes	. 22
	7.10	Wetwell and Valve Pit Structures *	. 22
	7.11	Wall Penetrating Seals	. 23
Li	iners an	d Coatings	. 23
	8.1	Coating for External Ductile Iron Pipe and Non-Wet Concrete Surfaces	. 23
	8.2	Manhole Chimney Seals	. 23
	8.3	Wetwell, Valve Pit & Manhole Coatings (Level I)	. 23
	8.3	Wetwell, Valve Pit & Manhole Coatings (Level II)	. 23
	8.3	Wetwell, Valve Pit & Manhole Coatings (Level III)	. 24
	8.4	Wetwell, Valve Pit and Manhole Liners	. 24
P	umps		. 24
	9.1	Submersible Wastewater Lift Station Pumps (3-100 HP)	. 24



## Pipe

1.1	Ductile Iron Pipe & Fitting	
	Not used on this project	
	ACIPCO (American Cast Iron Pipe)	
	US Pipe	
	McWane (all plants)	
	Clow	
	Griffin Pipe	
	Other:	(TSC approval required)
1.2	High Density Polyethylene Pipe & Fittii	ngs (4" and above)
	Not used on this project	
	JM Eagle (ductile iron pipe sizes)	
	Performance Pipe (Driscoplex 4000/4100)	
	Charter Plastics	
	WL Plastics	
	Other:	(TSC approval required)
1.3	PVC Pressure Pipe for Gravity Sewer a	and Reclaimed Water
	Not used on this project	
	Diamond Plastics Corp.	
	JM Eagle	
	Sanderson Pipes	
	Westlake Pipe & Fittings	
	Underground Solutions	
	National Pipe and Plastics	
	Next Polymers	
	Other:	(TSC approval required)



<ul> <li>□ Clow Medallion *[CRTag]</li> <li>□ American Darling (B84B-5)</li> <li>□ American AVK (Nostalgic Style)</li> <li>□ US Pipe Metropolitan (M-94) *[CRTag]</li> <li>□ Kennedy Guardian K-81-D</li> </ul>	1.4	PVC Non-Pressure Pipe (6" - 15")
□ JM Eagle     □ Sanderson Pipes     □ Westlake Pipe & Fittings     □ National Pipe and Plastics     □ Next Polymer     □ Other:		Not used on this project
□ Sanderson Pipes   □ Westlake Pipe & Fittings   □ National Pipe and Plastics   □ Next Polymer   □ Other:		Diamond Plastics Corp.
<ul> <li>□ Westlake Pipe &amp; Fittings</li> <li>□ National Pipe and Plastics</li> <li>□ Next Polymer</li> <li>□ Other:</li></ul>		JM Eagle
<ul> <li>National Pipe and Plastics</li> <li>Next Polymer</li> <li>Other:</li></ul>		Sanderson Pipes
<ul> <li>Next Polymer</li> <li>Other:</li></ul>		Westlake Pipe & Fittings
☐ Other:		National Pipe and Plastics
Fittings and Accessories  2.1 Casing Spacers for Carrier Pipe 6" and Above  Not used on this project  PSI (S8G-2, S12G-2) Cascade Waterworks Mfg. (CCS) Advanced Products & Systems, Inc. (SSI8, SSI12) Other:		Next Polymer
2.1 Casing Spacers for Carrier Pipe 6" and Above  Not used on this project PSI (S8G-2, S12G-2) Cascade Waterworks Mfg. (CCS) Advanced Products & Systems, Inc. (SSI8, SSI12) Other:(TSC approval required)  2.2 Fire Hydrants Not used on this project Mueller Super Centurion (250, A-423). The main valve material must be Robbins 1 Clow Medallion *[CRTag] American Darling (B84B-5) American AVK (Nostalgic Style) US Pipe Metropolitan (M-94) *[CRTag] Kennedy Guardian K-81-D		Other:(TSC approval required)
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<ul> <li>□ American Darling (B84B-5)</li> <li>□ American AVK (Nostalgic Style)</li> <li>□ US Pipe Metropolitan (M-94) *[CRTag]</li> <li>□ Kennedy Guardian K-81-D</li> </ul>		Mueller Super Centurion (250, A-423). The main valve material must be Robbins 1018201 SBR.
<ul> <li>□ American AVK (Nostalgic Style)</li> <li>□ US Pipe Metropolitan (M-94) *[CRTag]</li> <li>□ Kennedy Guardian K-81-D</li> </ul>		Clow Medallion *[CRTag]
<ul> <li>□ US Pipe Metropolitan (M-94) *[CRTag]</li> <li>□ Kennedy Guardian K-81-D</li> </ul>		American Darling (B84B-5)
☐ Kennedy Guardian K-81-D		American AVK (Nostalgic Style)
		US Pipe Metropolitan (M-94) *[CRTag]
☐ Other: (TSC approval required)		Kennedy Guardian K-81-D
		Other:(TSC approval required)



2.3	Flanged Fittings
	Not used on this project
	ACIPCO (American Cast Iron Pipe)
	US Pipe
	Star Pipe Products
	Tyler Union
	Sigma (water main only)
	SIP
	Other:(TSC approval required)
2.4	Flexible Couplings
	Not used on this project
	Fernco (Standard, SS Shear Rings, Strong Back RC, 5000 Series Strong Back, No-Hub)
	Mission
	Other:(TSC approval required)
2.5	Mechanical Joint Fittings
	Not used on this project
	ACIPCO (American Cast Iron Pipe)
	US Pipe
	Star Pipe Products
	Tyler Union
	Sigma (water main only)
	ROMAC ALPHA WIDE RANGE RESTRAINED ENDCAP
	SIP
	Other:(TSC approval required)



2.6	PVC Fittings for Gravity Sewer Up To 12' In Depth
	Not used on this project
	Harco
	Westlake Pipe & Fittings
	Multi-Fittings
	Tigre ADS-USA
	Other:(TSC approval required)
2.7	Tapping Sleeves (Ductile Iron) *
	Not used on this project
	American Flow Control (2800 Series)
	Tyler Union
	Mueller (H-615 Series)
	US Pipe (Type 9)
	Other:(TSC approval required)
* 16" a	nd larger requires shop drawing approval by EOR and WWS project manager
2.7	Tapping Sleeves (Stainless Steel) *
	Not used on this project
	JCM (432)
	Ford Meter Box (Style FTSS)
	Smith Blair (663)
	Mueller (H-304)
	Romac (Series SST)
	Cascade (CST-EX)
	Total Piping Solutions
	Other:(TSC approval required)
* 16" a	nd larger requires shop drawing approval by EOR and WWS project manager



	Transition Couplings
	Not used on this project
	JCM Industries (212)
	Smith Blair (441)
	Hymax (2000-2100 Series)
	Romac Macro HP Extended Range
	Hymax Versa
	Total Piping Solutions
	Other:(TSC approval required)
	Pressure Pipe Repair Clamps
	Not used on this project
_	• •
	Ford Meter Box
	Romac Industries
	Smith-Blair
	Hymax EZMAX
	Total Pipe Solutions (Quick Sleeve Wide Range Bell Joint)
	Total Pipe Solutions (Quick-Cam Rapid Seal Repair Clamp)
	Total Pipe Solutions
	Other:(TSC approval required)
<b>1</b>	Grooved Piping
	Victaulic Style 31 Coupling
	Victaulic Style 341 Flange Adapter
	Victaulic Ductile Iron Fittings
	Other:(TSC approval required)



## **Adapters and Joint Restraints**

3.1	Bell Joint Restraint (Ductile Iron Pipe)	
	Not used on this project	
	Sigma (PV Lok)	
	EBBA Iron (1700 Megalug Harness)	
	EBBA Iron (Series 1600TD, 4"-12")	
	Star (Series 1100, Below 10" Diameter)	
	Star (Series 3100S & 3100P)	
	Tyler Union (Tufgrip)	
	SIP	
	Other:	(TSC approval required)
3.1	Bell Joint Restraint (PVC Pipe)	
	Not used on this project	
	Ford Meter Box (Uni-Flange Series 1390)	
	EBBA Iron (Series 1600 PV, Series 1500 PV)	
	EBBA Iron (Series 1600TD, 4" - 12")	
	Sigma (PV Lok)	
	Star (Series 1100)	
	Tyler Union (TUFGRIP)	
	Other:	(TSC approval required)
3.2	Ductile Iron Flange Adapters	
	Not used on this project	
	EBBA Iron (Series 2100)	
	Other:	(TSC approval required)



3.3	Gripping Ring Joint Restraint (Ductile Iron	Pipe)
	Not used on this project	
	Romac (Grip Ring)	
	Star Pipe (Generation II)	
	Other:	_(TSC approval required)
3.3	Gripping Ring Joint Restraint (PVC Pipe)	
	Not used on this project	
	Romac (Grip Ring)	
	Other:	_(TSC approval required)
3.4	Mechanical Joint Restraint (Ductile Iron Pi	oe)
	Not used on this project	
	EBBA Iron (Megalug Series 1100)	
	Romac (Roma Grip) (Alpha Wide Range)	
	Romac Alpha Wide Range	
	Ford Meter Box (Uni-Flange Series 1400)	
	Star Pipe Products (Stargrip Series 3000)	
	Sigma (One-Lok SLD)	
	In Fact Foster Adaptor	
	SIP	
	Other:	(TSC approval required)



3.4	Mechanical Joint Restraint (PVC Pipe	<del>e</del> )
	Not used on this project	
	Ford Meter Box (Uni-Flange Series 1500)	
	EBBA Iron (Megalug Series 2000 PV)	
	Star Pipe Products (Stargrip Series 4000)	
	Sigma (One-Lok SLC)	
	Tyler Union PVC Bell (SS304 Rods)	
	Other:	(TSC approval required)
3.5	Gripping Gasket Joint Restraint for D	Ouctile Iron and PVC
	Not used on this project	
	ACIPC (Fast Grip Gaskets)	
	US Pipe (Field Lok 350)	
	Rieberlok (C900 PVC)	
	Other:	(TSC approval required)
Valve	es	
4.1	Air Release Valves for Potable Water	and Reclaimed Water
	Not used on this project	
	GA Industries (#920, #922)	
	Crispin (PL10, PL10A, PL20, PL20A)	
	Val-Matic Model 38 & 38.2 DISV	
	H-Tec Model 986 & 989	
	Other:	(TSC approval required)



4.2	Air Release Valves for Wastewater	
	Not used on this project	
	GA Industries (#929)	
	Crispin (S Series)	
	H-Tec (Model 986) (where the height of the valve is not an issue)	
	ARI (D-025PT)	
	Val-Matic Model 48A DISV/ with backwash assembly	
	Other:(TSC approval required)	
4.3	Automatic Blowoffs	
	Not used on this project	
	Hydro-Guard Standard Unit	
	Kupferle Foundry Co. (9400 WC Eclipse)	
	(TOO I : I)	
	Other:(TSC approval required)	
	Butterfly Valves (12" and Larger)	
	Butterfly Valves (12" and Larger)	
4.4	Butterfly Valves (12" and Larger)	
<b>4.4</b>	Butterfly Valves (12" and Larger) Not used on this project	
<b>4.4</b>	Butterfly Valves (12" and Larger)  Not used on this project  Mueller (Lineseal III) *[CRTag]	
<b>4.4</b>	Butterfly Valves (12" and Larger)  Not used on this project  Mueller (Lineseal III) *[CRTag]  Val-Matic *[CRTag]	
<b>4.4</b>	Butterfly Valves (12" and Larger)  Not used on this project  Mueller (Lineseal III) *[CRTag]  Val-Matic *[CRTag]  Milliken *[CRTag]	
<b>4.4</b>	Butterfly Valves (12" and Larger)  Not used on this project  Mueller (Lineseal III) *[CRTag]  Val-Matic *[CRTag]  Milliken *[CRTag]  Pratt (#2MII, #2FII, Triton-XR70) *[CRTag]	
<b>4.4</b>	Butterfly Valves (12" and Larger)  Not used on this project  Mueller (Lineseal III) *[CRTag]  Val-Matic *[CRTag]  Milliken *[CRTag]  Pratt (#2MII, #2FII, Triton-XR70) *[CRTag]  Clow (Model 4500 12" only) *[CRTag]	
<b>4.4</b>	Butterfly Valves (12" and Larger)  Not used on this project  Mueller (Lineseal III) *[CRTag]  Val-Matic *[CRTag]  Milliken *[CRTag]  Pratt (#2MII, #2FII, Triton-XR70) *[CRTag]  Clow (Model 4500 12" only) *[CRTag]  M&H (Model 4500 12" only) *[CRTag]	



4.5	Check Valves for Lift Stations
	Not used on this project
	M & H (159-02)
	Mueller (2600-6-01)
	American Flow Control (Series 52-SC)
	Clow (5380)
	American AVK (Series 41)
	MATCO-NORCA (Series 120 WC)
	Victalic Series 317 (Up to 12")
	Other:(TSC approval required)
4.6	Check Valves for Potable Water
	Not used on this project
	Mueller (Flexible Disk) *[CRTag]
	Danfoss Flo-Flex (745) *[CRTag]
	AFC (Series 2100) (flanged by flanged)
	AFC (2100 Hydrant Security Check Valve) (MJ by solid gland)
	Clow (306AS with SS nuts and bolts)
	Valmatic (VM-500A-S)[CRTag]
	Other:(TSC approval required)
4 -	
4.7	Double Disk Gate and Tapping Valves (12" - 48")
	Not used on this project
	Mueller (A-2380, H-667)
	Kennedy Valve
	Clow Valve
	J&S Valve
	M & H Valve
	Other:(TSC approval required)



4.8	Eccentric Plug Valves *
	Not used on this project
	Dezurik (PEF)
	Milliken Valve Co, (series 600/ 601)
	Henry Pratt
	Val-Matic (Series 5600F and 5700F)
	Victalic Series 377 (Up to 12")
	GA Industries Eco-Centric
	Kennedy Valve
	VSI Waterworks (Series PVII and PVIF)
	Other:(TSC approval required)
* 16" a <b>4.9</b>	nd larger requires shop drawing approval by EOR and WWS project manager  Gate and Tapping Valve
	Not used on this project
	American Flow Control (2500 Series)
	American AVK
	Clow (2639) *[CRTag]
	Kennedy Valve *[CRTag]
	Mueller (A2360, T2360); product tag must end with 0331 which indicates chloramines
	resistance
	GA Industries
	Matco-Norca (Series 225)
	J&S Valve (4" – 16")
	Other:(TSC approval required)



4.10	Insertion Valves *	
	Not used on this project	
	Advanced Valve Technologies	
	Team Industrial Services (4"-12"), with optional 30	04SS bolts.
	Other:	(TSC approval required)
* 16" a	and larger requires shop drawing approval by EOR	and WWS project manager
4.11	Potable Water Air Release Valve Inflow Pro	eventers
	Not used on this project	
	Val-Matic (Floodsafe Series 1300)	
	Other:	(TSC approval required)
4.12	Pressure Reducing Valves	
	Not used on this project	
	Ross Valve Mfg. Co., Inc.	
	Other:	(TSC approval required)
Wate	er Service Lines and Appurtenances	
5.1	Check Valves for Water Services	
	Not used on this project	
	Ford Meter Box (HS11-444 [1"], HS11-777 [2"])	
	Other:	(TSC approval required)
5.2	Corporation Stops	
	Not used on this project	
	Ford Meter Box (FB-1000)	
	Mueller (B-25008) *[CRTag]	
	Cambridge Brass (301) *[CRTag]	
	A.Y. McDonald Mfg. Co. (4701B-22)	
	Other:	(TSC approval required)



5.3	Couplings and Adapters for Water Service
	Not used on this project
	Cambridge Brass (105, 117, 119, 417)
	Mueller
	Ford Meter Box
	A.Y. McDonald Mfg. Co. (4761-22, 4753-22, 4754-22, 4758-22, 4620)
	Other:(TSC approval required)
5.4	Curb Stops/ Meter Valves
	Not used on this project
	Ford Meter Box Curb Stop Ball Valves (B41-444, B41-777)
	Ford Meter Box Ball Meter Valves (B43-444W, B43-344W, BF43-777W)
	Mueller 300 Ball Curb Valves (P25122) *[CRTag]
	Mueller 300 Ball Straight Meter Valves (P24335, P24350) *[CRTag]
	Cambridge Brass (210, 212, 292) *[CRTag]
	A.Y. McDonald Mfg. Co. (4602B-22, 74602B-22, 6101MW, 76101MW, 6100MW-22, 76100MW
	22)
	Other:(TSC approval required)
5.5	Double Strap Service Saddles
	Not used on this project
	JCM (406)
	Smith-Blair (Series 317)
	Romac (202NS, 202NU)
	Ford Meter Box (FC202, FCD202)
	A.Y. McDonald Mfg. Co. (4825A, 4826A, 4855A, 4856A)
	Mueller
	Total Piping Solutions
	Other:(TSC approval required)



5.6	Meter Flanges for water Services	
	☐ Not used on this project	
	☐ Cambridge Brass (421, 424)	
	☐ Ford Meter Box	
	☐ Mueller	
	☐ A.Y. McDonald Mfg. Co. (610F, 610M)	
	Other:	(TSC approval required)
5.7	Polyethylene Tubing for 1" and 2" W	ater Services
	☐ Not used on this project	
	Performance Pipe (Driscoplex)	
	☐ Endot Endopoly	
	☐ Municipex PEXa	
	Advanced Drainage Systems (PolyFlex)	
	Other:	(TSC approval required)
5.8	Type K Copper Tubing for 1" and 2"	Water Services *
	☐ Not used on this project	
	Other:	(TSC approval required)
* Use	e requires shop drawing approval by EOR	
5.9	U-Branches	
_	O-Dialiches	
L	Not used on this project	
	Not used on this project	
	Not used on this project  A.Y. McDonald Mfg. Co.  Cambridge Brass	
	<ul><li>Not used on this project</li><li>A.Y. McDonald Mfg. Co.</li><li>Cambridge Brass</li><li>Ford Meter Box</li></ul>	
	Not used on this project  A.Y. McDonald Mfg. Co.  Cambridge Brass  Ford Meter Box  Mueller	(TSC approval required)



5.10	Yokes	
	Not used on this project	
	Ford Meter Box (Iron Yoke Bars, Y500 Series)	
	Mueller (Iron Meter Yokes, H-5020)	
	Other:	(TSC approval required)
5.11	Dual Check Valves For Water Services	
	Not used on this project	
	Watts (Series LF7R)	
	Wilkins (Model 700XL)	
	Other:	(TSC approval required)
Mete	rs	
6.1	Compound Fireline Water Meters	
	Not used on this project	
	Sensus (Omni F2)	
	Hersey Meters (Model FM3)	
	Other:	(TSC approval required)
6.2	Water Meters (3", 4", 6", 8")	
	Not used on this project	
	Hersey Meters (Horizon)	
	Sensus (Omni T2)	
	Zenner PMCB03/PMCB04	
	Other:	(TSC approval required)
6.3	Fire Protection By-Pass Meters (1") *	
	Not used on this project	
	Badger (Model 25 [5/8"]; Model 70 [1"]; Model 12	20 [1-1/2"] and Model 170 [2"])
	Neptune (Model T-10 [all sizes])	
	Other:	(TSC approval required)



6.4	Service Meters (5/8", 1", 1-1/2", 2") *		
	Not used on this project		
	Badger (Model 25 [5/8"]; Model 70 [1"]; Model 120	[1-1/2"] and Model 170 [2"])	
	Neptune (Model T-10 [all sizes])		
	Other:	_(TSC approval required)	
Syste	em Structures, Boxes and Covers		
7.1	Box and Cover		
	Not used on this project		
	US Foundry (7630)		
	US Foundry (7635, standard detail #154 only)		
	EJ 1553Z 1553A & 1556Z 1556A Assembly		
	Other:	_(TSC approval required)	
7.2	Cleanout Box and Cover		
	Not used on this project		
	US Foundry (USF 7635, FJ Cover)		
	US Foundry (USF 7636, MJ Cover)		
	CARSON (MSCO-3)		
	EBAA Iron Cover		
	Other:	_(TSC approval required)	
7.3	Manholes *		
	Not used on this project		
	Other:	_	

\*Pre-approved manufacturers include all manufacturers that meet or exceed ASTM, Florida Department of Transportation and Broward County Highway Construction and Engineering Division specifications.

Use requires shop drawing approval (non-structural details only) by EOR and WWS project manager for each manhole. The shop drawings are to be signed and sealed by the EOR.



7.4	ŀ	Manhole Risers	
		Not used on this project	
		$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	stallations)
		□ EJ USA, Inc. (M2 & M5) (Not approved for new man	hole installations)
		Other:(	TSC approval required)
7.5	5	Manhole Connectors	
		☐ Not used on this project	
		☐ A-LOK (Z-LOK) (Cast in boot connector)	
		☐ KOR-N-SEAL I (706 Series)	
		A-LOK (X-CELL) (Does not require stainless steel ba	and)
		☐ Other:(	TSC approval required)
7.6	3	Manhole Grade Rings (Concrete) *	
		☐ Not used on this project	
		☐ Other:	
of <sup>-</sup>	Trar	<ul> <li>-approved manufacturers include all manufacturers that ansportation and Broward County Highway Constructio requires shop drawing approval by EOR.</li> </ul>	,
7.6	6	Manhole Grade Rings (Plastic)	
		☐ Not used on this project	
		☐ Ladtech, Inc. (Plastic, for use with approved manhole	e chimney seal system only)
		Other:(	TSC approval required)
7.7	,	Manhole Ring and Cover	
		☐ Not used on this project	
		US Foundry (420 LR-ORS, 540 LR-ORS)	
		□ US Foundry (690 AG-M, for air release valve manho	les only, County logo not required)
		☐ EJ USA (1072Z frame and 1072A1GS cover)	
		Other:(	TSC approval required)



7.9 Valve Boxes  Not used on this project  Tyler Union Star Pipe Products US Foundry EJ USA (8850 Box and 6800 Lid) SIP Bingham & Taylor Heavy Duty	7.8	Meter Box and Lid		
<ul> <li>OldCastle/ East Jordan Iron Works (Lid)</li> <li>□ EBBA Iron (Lid)</li> <li>□ DFW (Box) (DFW39C-12-BODY; DFW1324C-12-BODY)</li> <li>□ SIGMA Model RMB 132412-SW-W and Ductile Iron Lid LC1324-R-D</li> <li>□ Hubbell Quartzite (13"X24" &amp; 17"X30")</li> <li>□ Other:</li></ul>		Not used on this project		
□ EBBA Iron (Lid) □ DFW (Box) (DFW39C-12-BODY; DFW1324C-12-BODY) □ SIGMA Model RMB 132412-SW-W and Ductile Iron Lid LC1324-R-D □ Hubbell Quartzite (13"X24" & 17"X30") □ Other:		OldCastle/ Carson Brand (Box) (MSBCF 132	24-12; MSBCF 1416-12; MSBCF 1730-12	2)
□ DFW (Box) (DFW39C-12-BODY; DFW1324C-12-BODY) □ SIGMA Model RMB 132412-SW-W and Ductile Iron Lid LC1324-R-D □ Hubbell Quartzite (13"X24" & 17"X30") □ Other:		OldCastle/ East Jordan Iron Works (Lid)		
□ SIGMA Model RMB 132412-SW-W and Ductile Iron Lid LC1324-R-D □ Hubbell Quartzite (13"X24" & 17"X30") □ Other:		EBBA Iron (Lid)		
<ul> <li>☐ Hubbell Quartzite (13"X24" &amp; 17"X30")</li> <li>☐ Other:</li></ul>		DFW (Box) (DFW39C-12-BODY; DFW1324	C-12-BODY)	
Other:		SIGMA Model RMB 132412-SW-W and Duc	tile Iron Lid LC1324-R-D	
7.9 Valve Boxes  Not used on this project  Tyler Union Star Pipe Products US Foundry EJ USA (8850 Box and 6800 Lid) SIP Bingham & Taylor Heavy Duty Other:(TSC approval required  7.10 Wetwell and Valve Pit Structures * Not used on this project		Hubbell Quartzite (13"X24" & 17"X30")		
<ul> <li>□ Not used on this project</li> <li>□ Tyler Union</li> <li>□ Star Pipe Products</li> <li>□ US Foundry</li> <li>□ EJ USA (8850 Box and 6800 Lid)</li> <li>□ SIP</li> <li>□ Bingham &amp; Taylor Heavy Duty</li> <li>□ Other:</li></ul>		Other:	(TSC approval required)	
<ul> <li>□ Tyler Union</li> <li>□ Star Pipe Products</li> <li>□ US Foundry</li> <li>□ EJ USA (8850 Box and 6800 Lid)</li> <li>□ SIP</li> <li>□ Bingham &amp; Taylor Heavy Duty</li> <li>□ Other:</li></ul>	7.9	Valve Boxes		
<ul> <li>□ Star Pipe Products</li> <li>□ US Foundry</li> <li>□ EJ USA (8850 Box and 6800 Lid)</li> <li>□ SIP</li> <li>□ Bingham &amp; Taylor Heavy Duty</li> <li>□ Other:(TSC approval required</li> <li>7.10 Wetwell and Valve Pit Structures *</li> <li>□ Not used on this project</li> </ul>		Not used on this project		
□ US Foundry □ EJ USA (8850 Box and 6800 Lid) □ SIP □ Bingham & Taylor Heavy Duty □ Other:(TSC approval required  7.10 Wetwell and Valve Pit Structures * □ Not used on this project		Tyler Union		
□ EJ USA (8850 Box and 6800 Lid) □ SIP □ Bingham & Taylor Heavy Duty □ Other:(TSC approval required  7.10 Wetwell and Valve Pit Structures * □ Not used on this project		Star Pipe Products		
□ SIP □ Bingham & Taylor Heavy Duty □ Other:(TSC approval required  7.10 Wetwell and Valve Pit Structures * □ Not used on this project		US Foundry		
<ul> <li>□ Bingham &amp; Taylor Heavy Duty</li> <li>□ Other:(TSC approval required</li> <li>7.10 Wetwell and Valve Pit Structures *</li> <li>□ Not used on this project</li> </ul>		EJ USA (8850 Box and 6800 Lid)		
<ul> <li>☐ Other:(TSC approval required</li> <li>7.10 Wetwell and Valve Pit Structures *</li> <li>☐ Not used on this project</li> </ul>		SIP		
<ul><li>7.10 Wetwell and Valve Pit Structures *</li><li>□ Not used on this project</li></ul>		Bingham & Taylor Heavy Duty		
□ Not used on this project		Other:	(TSC approval required)	
• •	7.10	Wetwell and Valve Pit Structures *		
□ Other:		Not used on this project		
		Other:		

Use requires shop drawing approval by EOR and WWS project manager for each structure. Shop drawings to describe non- structural details and include buoyancy calculations when the structure is installed by the Tremie Seal method. The shop drawings are to be signed and sealed by the EOR.

<sup>\*</sup> Pre-approved manufacturers include all manufacturers that meet or exceed ASTM, Florida Department of Transportation and Broward County Highway Construction and Engineering Division specifications.



7.11	Wall Penetrating Seals	
	Not used on this project	
	PSI (Thunderline/ Link Seal, S-316)	
	Advanced Products & Systems (Innerlyn	nx, S-316)
	Metraflex (Metraseal, ES)	
	Other:	(TSC approval required)
Line	rs and Coatings	
8.1	Coating for External Ductile Iron P	ipe and Non-Wet Concrete Surfaces
	Not used on this project	
	Tnemec Perma-Glaze 435. In extreme v	vastewater environments, prime non-concrete surfaces
	with Series 218 Motarclad)	
	Other:	(TSC approval required)
8.2	Manhole Chimney Seals	
	Not used on this project	
	Wrapidseal	
	Other:	(TSC approval required)
8.3	Wetwell, Valve Pit & Manhole Coat	ings (Level I)
	Not used on this project	
	Carboline 300M	
	Targuard	
	Other:	(TSC approval required)
8.3	Wetwell, Valve Pit & Manhole Coat	ings (Level II)
	Not used on this project	
	Sewper Coat	
	BASF SP15	
	HITECH	
	Other:	(TSC approval required)



8.3	}	Wetwell, Valve Pit & Manhole Coatings (Level III)		
		Not used on this project		
		BASF Sewer Guard HBS 100 Epoxy Liner		
		Dura-plate 5900		
		Spectrum Spectrashield Polyurea		
		Other:	(TSC approval required)	
8.4		Wetwell, Valve Pit and Manhole Liners		
		Not used on this project		
		Other:	(TSC approval required)	
Pυ	ım	os		
9.1	9.1 Submersible Wastewater Lift Station Pumps (3-100 HP)			
		Not used on this project		
		Ebara *		
		Flygt *		
		Homa *		
		Other:	(TSC approval required)	

\* Not approved for all standard pump curves. Use requires shop drawing approval by EOR and WWS project manager for each lift (pumping) station. Shop drawings to detail hydraulic performance only.