

COLLIER COUNTY UTILITIES STANDARDS MANUAL
TABLE OF REVISIONS
SINCE SEPTEMBER 2009 UPDATE
COLLIER COUNTY PUBLIC UTILITIES PLANNING AND PROJECT MANAGEMENT DEPARTMENT
AS OF 05/31/11

The following pages are a summary of changes to the Collier County Utilities Standards Manual since the September 29, 2009 Board of County Commissioners (BCC) approval of Resolution 2009-224. The changes will be taken to the BCC for approval by Resolution.

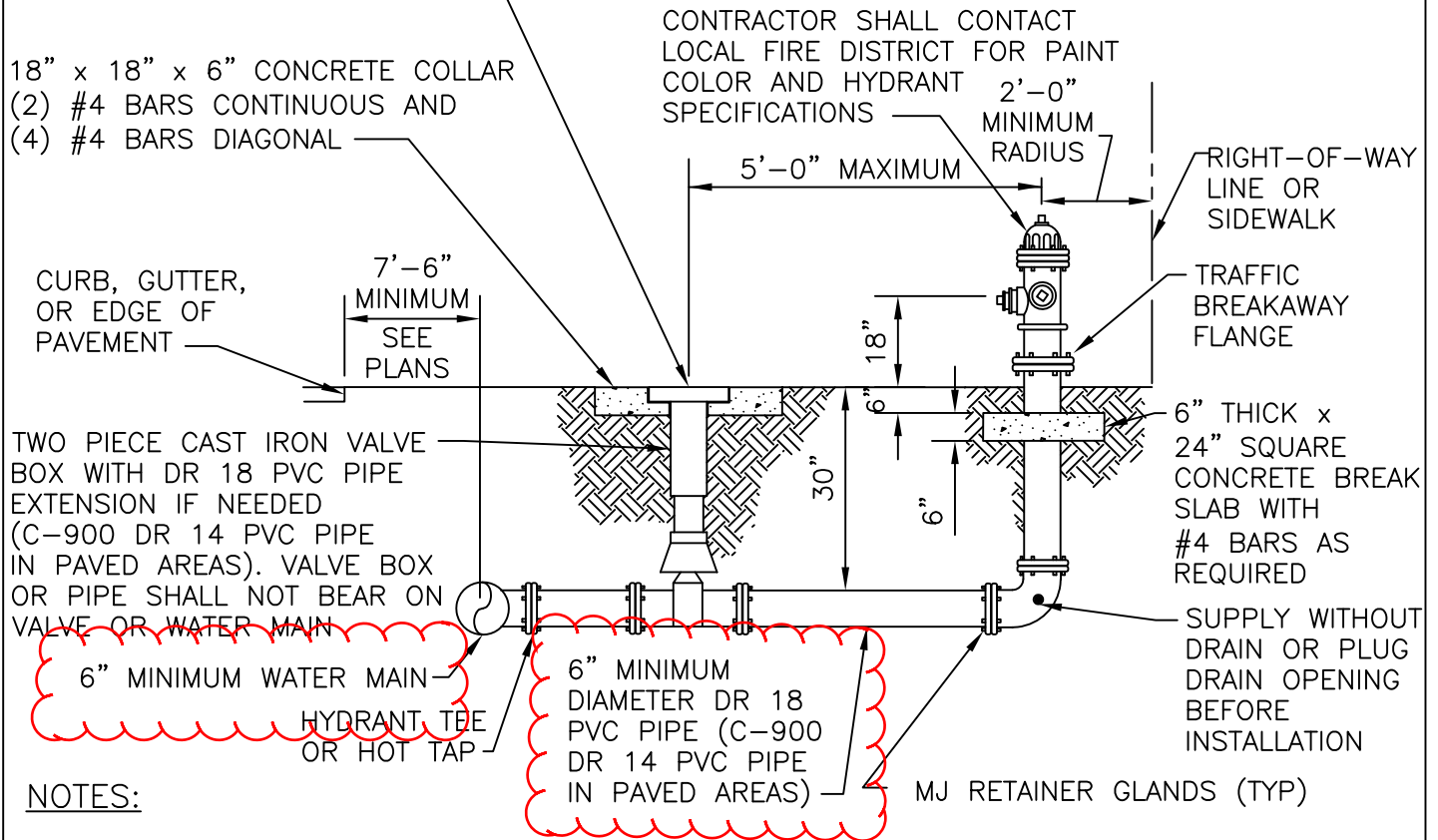
COLLIER COUNTY UTILITIES STANDARDS MANUAL
 TABLE OF REVISIONS TO TECHNICAL SPECIFICATIONS
 SINCE SEPTEMBER 2009 UPDATE
 COLLIER COUNTY PUBLIC UTILITIES PLANNING AND PROJECT MANAGEMENT DEPARTMENT
 AS OF 05/31/11

CHANGES TO TECHNICAL SPECIFICATIONS – SECTION 2				
Additions to text from Section 2 are shown in bold print, and deletions are shown with strike-through.				
Section	Sub-Section	Location	Revision	Date
2	331200	Water Valves and Appurtenances	2.3.F. Tapping Valves and Sleeves 1. All tapping sleeve and valve assemblies shall meet the requirements of AWWA Standard C500, latest revision. Cast iron tapping sleeves or stainless steel wrap-around sleeves, and cast iron valves shall be used to make live taps into the existing water mains where shown on the drawings. Sleeve bodies must be of stainless steel. The f Flanges must conform to AWWA C207 Class D ANSI 150# drilling. Mechanical Joint (MJ) tapping sleeves are also acceptable. All bolts and nuts shall be as specified.	06/15/10

COLLIER COUNTY UTILITIES STANDARDS MANUAL
TABLE OF REVISIONS TO STANDARDS DETAILS
SINCE SEPTEMBER 2009 UPDATE
COLLIER COUNTY PUBLIC UTILITIES PLANNING AND PROJECT MANAGEMENT DEPARTMENT
AS OF 05/31/11

CHANGES TO UTILITIES DETAIL DRAWINGS - SECTION 3			
Section	Detail #	Revision	Date of Approval
3	W-3	Clarify water main and service line pipe diameter as 6" minimum as required by the LDC.	06/15/10

PROVIDE A 3" DIAMETER BRASS DISC ANCHORED IN CONCRETE COLLAR. DISC SHOULD PROVIDE THE FOLLOWING INFORMATION: SIZE OF MAIN; NUMBER OF TURNS TO OPEN; DIRECTION TO TURN TO OPEN; VALVE MANUFACTURER AND YEAR VALVE INSTALLED



NOTES:

1. HYDRANT MUST BE CURRENT YEAR MANUFACTURE AND YEAR OF MANUFACTURE MUST BE CAST ON BARREL.
2. ALL EXISTING MAINS WHERE FIRE HYDRANTS ARE TO BE INSTALLED SHALL BE HOT TAPPED.
3. TAPPING SADDLES MAY BE EITHER STAINLESS STEEL OR DUCTILE IRON. ALL TAPPING SADDLES FOR ASBESTOS CEMENT PIPE SHALL BE STAINLESS STEEL.
4. ALL FIRE HYDRANT BARRELS SHALL BE A MINIMUM 5-1/4" IN DIAMETER.
5. ALL FIRE HYDRANTS INSTALLED SHALL BE OF THE BREAK AWAY FLANGE TYPE AND SHALL MEET THE REQUIREMENTS OF THE LOCAL FIRE CONTROL DISTRICT.
6. HYDRANT SHALL CONFORM WITH AWWA C-502.
7. THRUST RESTRAINT SHALL BE BY MJ RETAINER GLANDS.
8. ALL COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF STANDARD 61.

FIRE HYDRANT DETAIL

NTS

W-3

REVISED: JUNE 2010

COLLIER COUNTY UTILITIES STANDARDS MANUAL
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 SINCE SEPTEMBER 2009 UPDATE
 COLLIER COUNTY PUBLIC UTILITIES PLANNING AND PROJECT MANAGEMENT DEPARTMENT
 AS OF 05/31/11

CHANGES TO APPENDICES – SECTION 4				
Section	Sub-Section	Location	Revision	Date
4	Appendix A	All	Combine Water and Wastewater Deviation Forms into one. Edit contact mailing address and add attention to.	11/17/09 05/31/11
4	Appendix F	All	Add column describing system approved product is for. Add Clow and remove Kennedy hydrants. Add additional water meters. Edit Wastewater ARV ARI D-025 to require a check valve.	05/17/11
4	Appendix G	Page 1	Update list.	03/16/10

**COLLIER COUNTY PUBLIC UTILITIES DIVISION
PLANNING AND PROJECT MANAGEMENT DEPARTMENT**

3339 East Tamiami Trail
Suite 303
Naples, FL 34112
Phone (239)252-2583
Fax (239)252-5378

DEVIATION INFORMATION SHEET

Any request for a deviation from an established Wastewater or Water Department procedure must be submitted on the Utility Deviation Form and include all the required information for a faster and more efficient process. Please deliver your request to Nathan Beals at the Planning and Project Management Department Offices listed above, business hours are 8:00 am – 5:00 pm, M-F.

Please maintain one deviation per form and select the appropriate type of deviation (Wastewater, Water, or IQ Water). Ensure to select whether the deviation is on a Privately Owned or County Owned system. Multiple forms may be attached to the two sets of required blue print or drawing that has the area(s) of interest highlighted for quick referencing.

Provide as much information as possible along with the required Site Development Plan Number (*obtained from the Engineer of the Developer*). Please include any and all equipment specification information, pressures and velocities of flows, or other pertinent documentation and a cover letter to give additional information that may not be addressed on the form.

For Grease Trap Deviations, please include a cover letter giving any relevant information regarding the kitchen and its use, a copy of the Menu of what is to be cooked and served and a blue print of the floor plan for the kitchen and seating area.

Upon receipt of you deviation request the processing procedure begins with a date stamp and routing form. The first review is with the Locates Department for verification that the deviation request is located within the Collier County Water or Wastewater Service Areas. Next, depending on the topic of your request, the routing will either be to the Wastewater Pretreatment Inspector, Wastewater Collection Staff, or Water Distribution Staff and Public Utilities Planning and Project Management Staff for review. At any time there may be a site visit. The director of the Water or Wastewater Department performs the final review and you will thereafter be notified by email or phone of the outcome of your deviation request. If the deviation is denied, a meeting may be requested with the appropriate Director and staff to discuss.

If you have any question regarding this procedure, please call (239) 252-2583.

UTILITY DEVIATION FORM

Petitioners Request

Date: _____ Wastewater Water IQ Water

REQUIRED - Site Development Plan # (SDP#) _____ - or - Subdivision Improvement #(PPL#) _____

Project Name: _____ Privately Owned County Owned

Project Address: _____

Petitioners Name & Business Name: _____

Business Address: _____

Phone # _____ Fax # _____ Email _____

Reason for request? _____

REQUIRED FORMS
For all Deviation Request
unless specified.

- Blue Prints / Site Drawings
- Detail Specifications
- Menu & Seating only for Grease Trap Deviations
- Cover Letter w/ Pertinent Information

How does this request differ from Ordinance? _____

Impact of this request on affected area? _____

Impact of this request on the maintenance of the system? _____

Explain benefits this request will have to the operation/maintenance of the Collier County Utility system: _____

Additional Comments: _____

COUNTY STAFF ONLY

Routing for Review:	(Initials)	Staff Comments:
Stake & Locates	Approve: _____ Disapprove: _____	_____
WW Pretreatment Inspector	Approve: _____ Disapprove: _____	_____
WW Laboratory Supervisor	Approve: _____ Disapprove: _____	_____
WW Collections Manager	Approve: _____ Disapprove: _____	_____
Water Distribution Manager	Approve: _____ Disapprove: _____	_____
IQ Water Manager	Approve: _____ Disapprove: _____	_____
Planning & Project Mgmt. Dept.	Approve: _____ Disapprove: _____	_____
W or WW Department Director	Approve: _____ Disapprove: _____	_____

Authorizing Signature: _____ Date: _____

Collier County Utility Director

Collier County Public Utilities Division
County Approved Product List

Substitutions for any item listed below shall be submitted using the "Vendor and Manufacturer Approval Application Form," Appendix E, and reviewed to be considered an equal.				
Item	Manufacturer	Model	System/s	Location in Standards Manual
120VAC Surge Suppressor	Edco	HSP121	IQ	NP-E3
12VDC Power Supply	Allen Bradley	1606 Series	IQ	NP-E3
24VDC Power Supply	Allen Bradley	1606 Series	IQ	NP-E3
Access Frame (Pump Station)	U.S. Foundry	AHD	Wastewater	WW-7/WW-8
Access Hatch, Aluminum	Bilco	J-AL H20 (5-1/2" depth)	IQ/Wastewater	NP-3/WW-13
Access Hatch, Aluminum	Halliday	H1W (3-1/2" depth)	IQ/Wastewater	NP-3/WW-13
Access Hatch, Aluminum	U.S. Foundry	AHS (5" depth)	IQ/Wastewater	NP-3/WW-13
Access Hatch, Cast Iron	U.S. Foundry	7644-KA	Wastewater	WW-14
Antenna Subsystem	Data Flow Systems, Inc.	RTA209 Yagi Antenna	IQ/Wastewater	Section 333200, Page 4, J./NP-E9/WW-17
Automatic Flushing Device	Hydro-Guard	H-G1	Water	W-2
Back Pressure Sustaining Valve	Ames	No. 920	IQ	NP-1/NP-E2
Backflow Preventer Assembly	See Approved Backflow Devices List, Appendix G		Water	
Ball Valves	Ford		Water	Section 331200, Page 3, First Paragraph
Basket Strainer, Top Access	Hayward	No. 72	IQ	NP-1/NP-E2
Biofiltration Odor Control System	Zabocs (pre-engineered)		Wastewater	Section 333200, Page 6, P.
Bushing	Ford	C18-33	Water	W-6

Collier County Public Utilities Division
County Approved Product List

Substitutions for any item listed below shall be submitted using the "Vendor and Manufacturer Approval Application Form," Appendix E, and reviewed to be considered an equal.				
Item	Manufacturer	Model	System/s	Location in Standards Manual
Casing Spacer End Seals	Cascade Waterworks MFG Co.	CCES	All	Section 330523.16, Page 4, B.1
Casing Spacers Stainless Steel	Cascade Waterworks MFG Co.	CCS	All	Section 330523.16, Page 4, B.1/ G-5
Ceramic Epoxy Lining	Vulcan Painters	Protecto 401 Coating	Wastewater	Section 330504, Page 3, 2.1.B
Chimney Seal	Cretex		Wastewater	Section 333913, Page 4, K/WW-3/WW-4/WW-5
Chimney Seal	NPC		Wastewater	Section 333913, Page 4, K/WW-3/WW-4/WW-5
Coax Surge Supressor	Polyphaser	ISB56LN, Bulkhead Mount Series	IQ	NP-E3
Coaxial Cable	Data Flow Systems, Inc.	RTC 400	Wastewater	Section 333200, Page 5, First Paragraph/WW-17
Corporation Stops	Ford	F1001 (Ductile Iron)	Water	W-6
Corporation Stops	Ford	F1101 (PVC)	Water	W-6
Corporation Stops	Ford	FB 1100-6	IQ/Water	NP-2/W-12
Corporation Stops	McDonald	4104	All	NP-3/NP-4/W-5/WW-13/WW-14
Corporation Stops	McDonald	4101 BF	All	G-9A/NP-4/W-5
Corporation Stops	Mueller	H10045, H15008	Water	Section 331200, Page 3, First Paragraph
Corporation Stops	Mueller	H-10046	All	G-9A/NP-3/NP-4/W-5/WW-13/WW-14
Coupling	Ford	L86-33 ELL	Water	W-6
Curb Stop	Ford	B 43-342 WG	IQ/Water	NP-2/W-12

Collier County Public Utilities Division
County Approved Product List

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Item	Manufacturer	Model	System/s	Location in Standards Manual
Curb Stop	Mueller	Mark II Oriseal	Water	Section 331200, Page 3, First Paragraph
Data Radio	Integra	TR	IQ	NP-E3
Data Signal Line Surge Processor	Edco	PC642 Series	IQ	NP-E3
Diaphragm Seals	Ashcroft		Wastewater	Section 333313, Page 8, G.2.
Diaphragm Seals	Mansfield and Green	Type SB	Wastewater	Section 333313, Page 8, G.2.
Diaphragm Seals	Trerice	No. 877	Wastewater	Section 333313, Page 8, G.2.
Electronic Markers	3M Telecom Systems Group	Omni Marker Model 161 or 162	All	Section 330518, Page 9, O.2
Fences	Chain Link Fence Co. of Pennsylvania		All	Section 323113, Page 2, 2.1.A
Fences	U.S. Steel-Cyclone		All	Section 323113, Page 2, 2.1.A
Flanged Adapter Connections	Gustin-Bacon Group, Division of Certain-Teed Products, Kansas City, Kansas		Wastewater	Section 333313, Page 7, F.1.c.
Flanged Adapter Connections	Victaulic	Vic Flange Style 741	Wastewater	Section 333313, Page 7, F.1.c.
Generator Receptacle and Angle Adaptor	Russell and Stoll	200 Ampere JRS-2044	Wastewater	WW-7/WW-9
Geomembrane	GSE Lining Technology, Inc.		IQ	Section 334713, Page 4, 1.a
Hydrant	American Darling	6-inch B-84-B	Water	Section 331619, Page 2, G
Hydrant	Clow	Medallion	Water	Section 331619, Page 2, G
Hydrant	Kennedy	K-81A		Section 331619, Page 2, G

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Item	Manufacturer	Model	System/s	Location in Standards Manual
Hydrant	Mueller	Centurion A-423	Water	Section 331619, Page 2, G
Inflow Protector, Stainless Steel	Sewer Shield, Inc. Maitland, FL		Wastewater	Section 333913, Page 4, J.
Internal Protection	Integrated Environmental Technologies - Santa Barbara, CA	IET Coating System	Wastewater	Section 333913, Page 5, 3.1.F/Section 099723/WW-3/WW-4/WW-5/WW-7/WW-8
Internal Protection	Lafarge Calcium Aluminates - Chesapeake, VA	Sewpercoat Lining System	Wastewater	Section 333913, Page 5, 3.1.F/Section 099723/WW-3/WW-4/WW-5/WW-7/WW-9
Internal Protection	Sprayroq, Inc. - Birmingham, AL	SprayWall Coating System	Wastewater	
Joint Restraint Devices	EBAA Iron Sales		All	Section 1: 1.3/Section 330503, Page 5, L./Section 330504, Page 7, F.
Joint Restraint Devices	Romac Industries		All	Section 1: 1.3/Section 330503, Page 5, L./Section 330504, Page 7, F.
Joint Restraint Devices	Sigma		All	Section 330503, Page 5, L.1./Section 330504, Page 7, F.
Joint Restraint Devices	Star Restraint		All	Section 1: 1.3/Section 330503, Page 5, L./Section 330504, Page 7, F.
Joint Restraint Devices	Uniflange		All	Section 330503, Page 5, L.1./Section 330504, Page 7, F.
Joint Restraint Devices, Push-On joints for push joint pipe	American Cast Iron Pipe Company		All	Section 330504, Page 7, F.3.
Joint Restraint Devices, Push-On joints for push joint pipe	Flex-Ring		All	Section 330504, Page 7, F.3.
Joint Restraint Devices, Push-On joints for push joint pipe	Lok-Ring		All	Section 330504, Page 7, F.3.
Joint Restraint Devices, Push-On joints for push joint pipe	McWane Inc.		All	Section 330504, Page 7, F.3.

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Item	Manufacturer	Model	System/s	Location in Standards Manual
Joint Restraint Devices, Push-On joints for push joint pipe	Super-Lock		All	Section 330504, Page 7, F.3.
Joint Restraint Devices, Push-On joints for push joint pipe	TR Flex		All	Section 330504, Page 7, F.3.
Joint Restraint Devices, Push-On joints for push joint pipe	U.S. Pipe & Foundry		All	Section 330504, Page 7, F.3.
Junction Box	Hoffman	A12106NFSS	Wastewater	WW-9
Level Transducer	Wika		IQ	NP-E6
Lightning Arrestor	Square D	SDSA-1175 for 1-phase	Wastewater	Section 333200, Page 6, O./WW-9
Lightning Arrestor	Square D	SDSA-3650 for 3-phase	Wastewater	Section 333200, Page 6, O./WW-9
Liquid Level Regulators	Roto-Float	S 40 N 0	Wastewater	WW-7/WW-8
Magnetic Marker	3M		All	Section 1; 1.6.1, 2.1.4, 2.2.1/WW-10/WW-12/WW-16
Metalized Tape	Reef Industries, Inc. Houston, TX	Terra Tape D	All	Section 330518, Page 9, O.1
Meter Box, AMR	Alliance	12" 16AMR Series	IQ/Water	NP-2/W-12
Meter, Fire Protection (3", 4", 6", 8")	Elster AMCO	evoQ4 Electromagnetic Meter	Water	W-9/W-10/W-14/W-15
Meter, Fire Protection (3/4", 1", 1-1/2", 2")	Hersey-Meters	Residential Fire Meter	Water	W-9/W-10/W-14/W-15
Meter, Fire Protection (4", 6", 8")	Master Meter	FSC	Water	W-9/W-10/W-14/W-15

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Item	Manufacturer	Model	System/s	Location in Standards Manual
Meter, Fire Protection (3", 4", 6", 8", 10")	Neptune	HP Fire Service Turbine Meter	Water	W-9/W-10/W-14/W-15
Meter, Fire Protection (4", 6", 8", 10")	Neptune	HP Protectus III Fire Service Meter	Water	W-9/W-10/W-14/W-15
Meter, Non-Potable Propeller	Water Specialties	No. ML-04-X with 4-20 MA Output Transmitter, TR-16	IQ	NP-1/NP-E2
Meter, Potable Water	Master Meter	Dual Body Compound (DBC)	Water	W-13
Meter, Potable Water	Neptune	Tru/Flo	Water	W-13
Mix-Flush system (Flush valve)	Flygt	4901 Flush Valve	Wastewater	Section 333200, Page 3, First Paragraph
Pedestal Housing	Channel	CCWD Signature Series P/N SPH 121215000288 (Light Green Color)	Water	W-5
Pedestal Housing	Channel	CCWD Signature Series P/N SPH 12122C10000W (Dark Green Color)	IQ	NP-4
Plastic Joint Sealing Compound	Hamilton Kent, Toronto/Ontario, Canada	Kent-Seal	Wastewater	Section 333913, Pages 3 & 5
Plastic Joint Sealing Compound	K.T. Snyder Company, Inc. Houston, TX	Ram-Nek	Wastewater	Section 333913, Pages 3 & 5/NP-3/WW-3/WW-4/WW-5/WW-6/WW-7/WW-13/WW-14/WW-18
Polyethylene Lining	American Cast Iron Pipe	Polybond Plus (60 mils minimum thickness)	Wastewater	Section 330504, Page 3, 2.1.B
Pump Control Panel	Quality Control, Inc.	1825 for 1-phase	Wastewater	Section 3, Page 4, H./WW-7/WW-9
Pump Control Panel	Quality Control, Inc.	3825 for 3-phase	Wastewater	Section 333200, Page 4, H./WW-7/WW-9

Collier County Public Utilities Division
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Item	Manufacturer	Model	System/s	Location in Standards Manual
Pump Controller/RTU	Data Flow Systems, Inc.	TAC Pack TCU	Wastewater	Section 333200, Page 4, I.
Rain Gauge	ISCO	674	IQ	NP-E5
Rubber Gasket pipe	Clow "Long-Span Pipe"		All	Section 330518, Page 10, Q.1.
Rubber Gasket pipe	Flanged American Pipe		All	Section 330518, Page 10, Q.1.
Rubber Gasket pipe	Flanged US Pipe		All	Section 330518, Page 10, Q.1.
Sampling Station	Kupferle Foundry Company	Eclipse No. 88	Water	W-6
Sealing Element	Thunderline Corp. Inkster Michigan	Link-Seal LS-300-C	Wastewater	Section 333313, Page 8, I.1./WW-18
Service Saddles (Ductile Iron)	Ford	202B	Water	Section 331200, Page 7, c.
Service Saddles (PVC)	Ford	S 90	Water	Section 331200, Page 7, c./W-6
Service Wye	Ford	44-264?	IQ/Water	NP-2/W-12
Sewage Pump	Flygt		Wastewater	Section 333200, Page 2, C
Sewer Clean-Out Rim and Cover	U.S. Foundry	7621	Wastewater	WW-11
Sewer Manhole Frame and Covers	Pamrex		Wastewater	WW-5
Sewer Manhole Frame and Covers	U.S. Foundry	105M	Wastewater	WW-2
Sewer Manhole Frame and Covers	U.S. Foundry	420-C-ORS	Wastewater	Section 333913, Page 2, 2.1.A.2/G-9A/WW-3/WW-4/WW-5/WW-6/WW-18
Single Sealed Gasket Push-on type joint	Alltite		All	Section 330504, Page 10, 3.3.C

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Item	Manufacturer	Model	System/s	Location in Standards Manual
Single Sealed Gasket Push-on type joint	Fastite		All	Section 330504, Page 10, 3.3.C
Single Sealed Gasket Push-on type joint	Superbelltite		All	Section 330504, Page 10, 3.3.C
Single Sealed Gasket Push-on type joint	Tyton		All	Section 330504, Page 10, 3.3.C
Sleeve Type Couplings	Baker Allsteel		Wastewater	Section 333313, Page 8, d.
Sleeve Type Couplings	Dresser	Style 38	Wastewater	Section 333313, Page 8, d.
Sleeve Type Couplings	Smith Blair	Style 413	Wastewater	Section 333313, Page 8, d.
Strainer, Flanged	Ames	7001	Water	W-13
Surge Suppression	Edco	SS65	IQ	NP-E6/NP-E7
Surge Suppression, Main Service	Lea	USP-M Series	IQ	NP-E5
Tapping Saddle	Ford	F202	IQ/Water	NP-2/W-12
Tapping Saddle	Ford	F202B	IQ/Water	NP-2/W-12
Tower Section	Rohn	20G	Wastewater	WW-17
Two-part Coal tar Epoxy	Madewell Products Corp.	Madewell 1104	All	Section 330518, Page 6, 4
Valve Box	Brooks		Wastewater	WW-9
Valve Box	Tyler/Union	461	Water	Section 331200, Page 4, First Paragraph
Valve Setter	Wilkins		Water	W-9A/W-10A/W-11A

Collier County Public Utilities Division
County Approved Product List

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Item	Manufacturer	Model	System/s	Location in Standards Manual
Valve, 3-Way Plug	Milliken Valve Co.		Wastewater	WW-7/WW-8
Valve, Air	Val-Matic		Water	W-11/W-14/W-16
Valve, Air Release	AIR	D-025		WW-13/WW-14
Valve, Air Release	ARI	D-040	IQ/Water	NP-4/W-5/W-10
Valve, Air Release	ARI	S-025	Wastewater	WW-13/WW-14/Section 333313, Page 7, 6.
Valve, Air Release	GA Industries	Figure 945	IQ/Water	Section 1 1.7/NP-1/NP-3/NP-4/NP-E2/W-5/W-10
Valve, Air Release	Mueller	Mark II Oriseal	Water	Section 331200, Page 3, First Paragraph
Valve, Bacterial Sampling Station Line	Mueller	Mark II Oriseal	Water	Section 331200, Page 3, First Paragraph
Valve, Butterfly	DeZurik	BGS	IQ	NP-1
Valve, Butterfly - Motor	Rotork	IQT	IQ	NP-E2
Valve, Check	Kennedy Valve Manufacturing Co.		Wastewater	WW-7/WW-8
Valve, Check	Red Valve Co., Inc. Longwood, FL	"Tideflex"	Wastewater	Section 333200, Page 2, B
Valve, Check	Val-Matic	Swing Flex	Wastewater	WW-2
Valve, Duckbill	Red Valve Co., Inc. Longwood, FL	"Tideflex"	Wastewater	WW-7
Valve, Plug	Homestead Valve Co.		Wastewater	WW-7
Valve, Rising Stem Gate		AFC-500	IQ	NP-1/NP-E2

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County Approved Product List

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Item	Manufacturer	Model	System/s	Location in Standards Manual
Valves	DeZurik		Wastewater	Section 333200, Page 4, F.
Valves	Milliken Valve Co.		Wastewater	Section 333200, Page 4, F.
Valves and Appurtenances	American Darling		Water	Section 331200, Page 2, 2.2.A
Valves and Appurtenances	Clow		Water	Section 331200, Page 2, 2.2.A
Valves and Appurtenances	Ford		Water	Section 331200, Page 2, 2.2.A
Valves and Appurtenances	Kennedy		Water	Section 331200, Page 2, 2.2.A
Valves and Appurtenances	Mueller		Water	Section 331200, Page 2, 2.2.A
Valves and Appurtenances	U.S. Pipe		Water	Section 331200, Page 2, 2.2.A