

SECTION 4

APPENDICES

Go to the Collier County website below for the latest revisions to the appendices:

<https://www.colliercountyfl.gov/your-government/divisions-f-r/public-utilities-planning-and-project-management/utilities-standards-manual>

**COLLIER COUNTY WATER-SEWER DISTRICT
UTILITIES STANDARDS MANUAL**

SECTION 4

APPENDICES

Table of Contents

Appendix A	Utility Deviation Form
Appendix B	Water Meter Sizing Form
Appendix C	Final Waiver of Liens – Conveyance of Utilities Facilities to County
Appendix D	Utilities Conveyance Checklist
Appendix E	Vendor and Manufacturer Approval Application Form
Appendix F	County Approved Product List
Appendix G	Approved Backflow Devices



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

**3339 East Tamiami Trail
Suite 303
Naples, FL 34112
Phone: (239) 252-8836**

Any request for a deviation from the Collier County Water-Sewer District Utilities Standards and Procedures must be submitted on the Utility Deviation Form and should include all required information for a faster and more efficient process. Please email your request to UtilityPlanning@colliercountyfl.gov.

Please maintain on deviation per form and select the appropriate type(s) of deviation (Wastewater, Water, IQ Water, or Grease Trap). Provide the associated land use application number assigned by the Growth Management Department. Ensure to select whether the deviation is on a privately owner or county owner system. Include a drawing that has the area(s) of interest highlighted for quick referencing.

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 floor plan of the kitchen and seating area.

Typically, Utility Deviation requests are processed within 5-10 business days. You will be notified by email of the outcome of your deviation request. If the deviation is rejected, a meeting may be requested with the appropriate Director and staff to discuss.

If you have any questions regarding this process, please call (239) 252-8836 or email your questions to UtilityPlanning@colliercountyfl.gov.



UTILITY DEVIATION FORM
Petitioners Request

Date: _____ Wastewater Water IQ Water Grease Trap

Land Use Application # _____ Privately Owned County Owned

Project Name: _____

Folio Number(s): _____

Petitioner's Name & Business Name: _____

Business Address: _____

Phone #: _____

Email: _____

Reason for Request: _____

How does this Request Differ from Ordinance: _____

Impact of this Request of Affected Area: _____

Impact of this Request on the Maintenance of the System: _____

Explain Benefits Request Will Have to the Operation/Maintenance of the Collier County Utility

System: _____

Additional Comments: _____

<p style="text-align: center;">REQUIRED INFORMATION</p> <p>Cover Letter w/Pertinent Information</p> <p>Site Drawings</p> <p>Detail Specifications (include MFR Maint. Procedures for Grease Trap Deviations)</p> <p>Menu & Seating (Only for Grease Trap Deviations)</p>



Water Meter Sizing Form

One Form Per Meter

Preparer's Information:

Name =====> _____

Title =====> _____

Company=====> _____

Address =====> _____

Phone =====> _____

Email Address =====> _____

Project Information:

Date =====> _____

Permit or AR Number _____

Name of Project =====> _____

Project Address =====> _____

Please Note:

1. All commercial facilities must be metered separately from residential facilities with the exception of those commercial facilities that are within a master metered residential development and designed for the exclusive use of the residents within such development.
2. The Design Engineer/Architect must submit signed and sealed documentation supporting meter sizing. Sizing shall be based upon fixture flow values, as shown on the following page and the table on page 3, unless approved otherwise by Utility Deviation. If an increase in meter size is requested to accommodate for fire flow, the Engineer/Architect should check appropriate box below. A Utility Deviation will not be required for increasing meter size for fire flow requirements. For all meter sizes, the Engineer/Architect must consider all relevant factors before selecting the final meter size.
3. For remodeling projects, this form must be submitted only if there is a net increase in fixture flow value.

This Section to be filled out by Engineer/Architect of Record:

Demand in accordance with the attached Fixture Flow Value Worksheet(s) and the Table for Estimating Demand:

_____ GPM

Meter Size Required: _____

Meter Size Requested: _____

If the meter size requested is larger than the meter size required per the table below, please indicate the reason for the request by checking the appropriate box:

Existing Meter Size: _____

- Fire Flow Other (Please attach Utility Deviation Approval)

Type or Print Name of Engineer/Architect of Record for Project

Demand Range (GPM)	Meter Size
0 to 30	¾"
30.1 to 50	1"
50.1 to 100	1 ½"
100.1 to 160	2"
160.1 to 450	3"
450.1 to 1,000	4"
1,000.1 to 2,000	6"
2,000.1 to 3,500	8"

Signature of Engineer/Architect of Record for Project and Date

[Affix Engineering/Architect Stamp Here]

**FINAL WAIVER OF LIENS -
CONVEYANCE OF UTILITY FACILITIES TO COUNTY**

KNOW ALL MEN BY THESE PRESENTS, that for and in consideration in the amount of \$_____ lawful money of United States of America, to me in hand paid, the receipt whereof of which is hereby acknowledged, does hereby waive, release, remiss and relinquish any and all right to claim any lien(s) for work performed and/or for material furnished, and/or for any claim whatsoever with regard to utility facilities constructed in, over or under the below-described real property. The undersigned certifies to the County that the undersigned has all requisite authority to execute this Waiver for all intended purposes.

Every individual who, and each entity that, pursuant to the undersigned's agreement with regard to the subject utility facilities, has supplied or furnished service(s), labor, material(s) and/or supplies used in installation, construction, maintenance, repair, location, relocation, or otherwise, with regard to utility facilities thereby located in, on or over the real property described below, have been paid in full (or have been adequately bonded) whereby as to all such services, labor, materials and/or supplies there exist no claim(s) from any such individual or entity that will affect conveyance of good and marketable title to the utility facilities to Collier County and/or to the Collier County Water-Sewer District.

Legal description of the site where the subject utility facilities have been constructed or installed is _____
_____.

Signed: _____
Printed (or typed) Name

STATE OF FLORIDA)
COLLIER COUNTY)

The foregoing instrument was acknowledged before me this _____ day of _____, 200__ by _____, who is personally known to me OR who provided identification Type of identification produced: _____.

_____ My Commission Expires _____
Notary Public, State of Florida

Utilities Conveyance Checklist

POTABLE WATER, NON-POTABLE IRRIGATION WATER AND WASTEWATER FACILITIES ACCEPTANCE

Today's Date: _____

Project Name: _____

Original Project No. (AR/PL): _____

Utility PL#: _____

Submittal Requirements

	N/A	In review	Item accepted	Item Needed	Notes
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final Utility Acceptance Application	_____
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Addressing Checklist (ID number or Folio number of Property)	_____

Legal Documents

	N/A	In review	Item accepted	Item Needed	Notes
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Attorney's Affidavit	_____
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Owner's Affidavit	_____
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Warranty Deed/Bill of Sale with Exhibit B per Utilities Standards and Procedures Ordinance Section 10.2.6	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Facilities Securities Subordination (required when any security interest in the utility facilities/systems is involved). UCC-1(s) can be subordinated by a Subordination or by use of UCC-3(s) if not released by Subordination.	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Deed of Utility Easement - Copy of last Deed that conveyed title of the Associated Real Property and Copy of all Utility Easements then being conveyed to the County, including legal description with Surveyor's Sketch of Easement. (Utility easements are not required provided all utility facilities then being conveyed are in public right-of way, are in then existing utility easements, or are in CUEs)	_____
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Performance Security (UPS) 10% of Total Cost plus Final Obligations cash bond of not less than \$4,000 (AR-5939 & above)	_____
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final Release of Lien from Utility Contractor for the system(s) or portion(s) thereof constructed	_____
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Facilities Lease (when applicable)	_____

9. Facilities Lease (including Sub-Developer) use Form 10.1

Tests, Certifications and Supplemental Documents

	N/A	In review	Item accepted	Item Needed	Notes
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sewer Video of constructed gravity sewer (Sewer Report & Master Utility Sheet)	<hr/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Certification of pressure testing of wastewater force mains by Engineer of Record	<hr/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Certification of the infiltration/exfiltration tests for the sewer lines by Engineer of Record	<hr/>
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coating certification from the manufacturer or a professional testing laboratory for all manholes, wet wells and valve vault.	<hr/>
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lift station(s) start up report(s)	<hr/>
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electrical Contractor's certification of Lift Station electric service wire sizing and voltage drop pursuant to National Electrical Code Specifications	<hr/>
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Start-up and successful testing of Data Flow telemetry equipment (AR-7936 & above)	<hr/>
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Certification of pressure testing of water and non-potable irrigation mains by Engineer of Record	<hr/>
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Letter by Engineer certifying that: <ul style="list-style-type: none"> • All water, non-potable irrigation and/or sewer facilities are located within the public right-of-way or dedicated easements • All the utilities system(s), or portion(s) thereof, has been constructed in accordance with County Ordinances and Regulations, including the required color for piping 	<hr/>
10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One year (1) Warranty on work performed and system(s) or portion(s) thereof installed by Utilities Contractor	<hr/>
11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Engineer's Final Payment Confirmation	<hr/>
12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DEP Certification and copy of General Permit for WATER facilities (including interim facilities, if applicable);	<hr/>
13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DEP WATER Certification approval to be forwarded when received	<hr/>

- 14. DEP Certification and copy of General Permit for **SEWER** facilities (including interim facilities, if applicable); _____
- 15. DEP SEWER Certification approval to be forwarded when received _____
- 16. DEP Certification and copy of General Permit for (RECLAIMED) **NON-POTABLE IRRIGATION WATER** facilities (including interim facilities, if applicable); In-service Letter to be forwarded when received _____
- 17. Lab results on bacteriological tests for potable water mains _____
- 18. Satisfactory Test Reports and Certification of backflow device by Certified Laboratory. _____
- 19. Verification of Final Cost (Include materials **and** labor, misc.) Cost breakdown – Contributory Assets for County/Private Materials (materials **only**) (i.e. detailed quantities, sizes, unit cost, total cost, etc) _____
- 20. Letter from the Fire District regarding ownership and maintenance of fire hydrants _____
- 21. Signed copy of field fire flow testing by the applicable Fire Control District _____

Engineering Documents

	N/A	In review	Item accepted	Item Needed		Notes
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One (1) complete set of Record Drawings to include <u>all</u> utilities and all related underground work <u>signed</u> and <u>sealed</u> by the Engineer of Record for potable water, non-potable irrigation water and / or wastewater system(s) or portion(s) thereof		_____
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One (1) computer-generated disk of Record Drawings in CAD and PDF format in accordance with Section 10.4: Record Drawings of the Utilities Standards and Procedures Ordinance		_____
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Longitude and latitude shall appear on detail sheet. (AR-7936 & above)		_____

Office Use Only below this line
W W/S S IRR

VENDOR AND MANUFACTURER APPROVAL APPLICATION FORM

Please prepare the completed Approval Application Form along with all requested information, and email all documents to the Public Utilities Engineering and Project Management Division as noted below. All documents must be in either PDF or WORD or EXCEL format. Other file formats will not be accepted. Faxes will not be accepted.

UtilityPlanning@colliercountyfl.gov

VENDOR AND MANUFACTURER APPROVAL APPLICATION FORM

Date: _____

A. Application Contact Name & Business:

Address _____

Phone # _____ Fax # _____

Email address _____

B. Manufacturer of Product

Address _____

Phone # _____ Fax # _____

Email address _____

C. Specific Location(s) of Product Manufacture and Assembly

Address _____

Phone # _____ Fax # _____

Email address _____

D. Identify specific County Detail(s) or Specification(s) on which approval is sought.

E. Is the applicant the product manufacturer? If not, describe the relationship of the applicant to the manufacturer.

Yes _____

No _____

F. Is the product available through more than one vendor? Describe who will provide sales and service to the County for the submitted product.

Yes _____ No _____

G. Is the product is manufactured in whole or in part outside of the United States?

Yes _____ No _____

H. If the answer to Item G is Yes, attach copy of ISO 9001 Quality Control current certification certificates for the manufacturer and the point of manufacture.

I. How long has the specific product or service being proposed been on the market for public purchase?

No. of Years _____

J. In the case of applicators or installers, for how long has work been commenced and completed using the specific product or service being proposed?

No. of Years _____

K. Provide a product or service customer reference list that identifies the organization, location, contact person, email address, phone number, date of first installation, date of completion, number of products used, and the specific application of the product with each reference. Applicators and installers must have at least three references using the specific product or service being proposed.

L. Provide a list identifying the public utility departments or organizations that have approved your product. Preference should be given to utility departments within the state of Florida. The list must include a contact name, email address and phone number at each public utility.

M. Attach legible copies of pertinent product data sheets, shop drawings and performance data to assist with the County’s review. All information must be submitted with the Application form. Clearly identify what product and product sizes are being proposed. Complete submittals are required with initial application, and supplemental submittals will not be accepted.

N. As applicable, provide copies of certifications that specific product being proposed meets the following standards:

UL Approval attached Yes _____ No _____

FM Approval attached Yes _____ No _____

NSF 61 Approval attached Yes _____ No _____

(NSF 61 approval is mandatory for all products that may be in contact with potable water.)

O. Summarize the advantages of the submitted product or service. Provide no more than one page of text.

P. Provide estimated unit cost for the submitted product or service.

Q. Provide separate estimated unit costs for the operation and the maintenance of the submitted product or service.

R. Based on the references identified above, identify the anticipated life of the submitted product or service before either replacement or major repair is needed.

S. Explain benefits this application will have to the operation and maintenance of the Collier County Utility system:

The applicant hereby affirms the information provided with this Application Form is complete, accurate and current.

Submitted by _____

Signature _____

Firm name _____

Date _____

Collier County Public Utilities Department
County Approved Product List
All Systems

NOTES:

1) 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.

2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Casing Spacer End Seals	Power Seal	EndSeal	Section 330523.16, Page 4, 3.1 B
Casing Spacer End Seals	Cascade Waterworks MFG Co.	CCES	Section 330523.16, Page 4, 3.1 B
Casing Spacers Stainless Steel	Power Seal	4810	Section 330523.16, Page 4, 3.1 BG-5
Casing Spacers Stainless Steel	Cascade Waterworks MFG Co.	CCS	Section 330523.16, Page 4, 3.1 B-5
Electronic Markers	3M Electronic Ball Marker	1423, 1424 & 1428	Section 1: 2.6.1, 3.1.4, 3.2.1/WW-10/WW-12/WW-16
Electronic Markers	OMNI MARKER	161, 162 & 168	Section 330518, Page 9, 3.2 O.2
Joint Restraint Devices	EBAA Iron Sales		Section 1: 2.3/Section 330503, Page 5, 2.1 L/Section 330504, Page 7, 2.5 F
Joint Restraint Devices	Romac Industries		Section 1: 2.3/Section 330503, Page 5, 2.1 L/Section 330504, Page 7, 2.5 F
Joint Restraint Devices	Sigma		Section 1: 2.3/Section 330503, Page 5, L/Section 330504, Page 7, 2.5 F
Joint Restraint Devices	Star Pipe Products		Section 1: 2.3/Section 330503, Page 5, 2.1 L/Section 330504, Page 7, 2.5 F
Joint Restraint Devices	Ford Meter Box Company		Section 1: 2.3/Section 330503, Page 5, L/Section 330504, Page 7, 2.5 F
Joint Restraint Devices, Push-On joints for push joint pipe	American Cast Iron Pipe Company	Flex-Ring & Lok-Ring	Section 330504, Page 7, F.3
Joint Restraint Devices, Push-On joints for push joint pipe	McWane Inc.	Super-Lock & TR Flex	Section 330504, Page 7, F.3
Joint Restraint Devices, Push-On joints for push joint pipe	U.S. Pipe		Section 330504, Page 7, F.3
Metalized Tape	Reef Industries, Inc. Houston, TX	Terra Tape	Section 330518, Page 9, O.1

Collier County Public Utilities Department
County Approved Product List
All Systems

NOTES:

- 1) 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.
 2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Metalized Tape	Proline Safety Products	Detectable Tape	Section 330518, Page 9, O.1
Rubber Gasket pipe	McWane Inc.	Long-Span Pipe	Section 330518, Page 10, Q.1
Rubber Gasket pipe	American Cast Iron Pipe Company	Flanged	Section 330518, Page 10, Q.1
Rubber Gasket pipe	US Pipe	Flanged	Section 330518, Page 10, Q.1
Single Sealed Gasket Push-on type joint	American Cast Iron Pipe Company	Fastite	Section 330504, Page 10, 3.3.C
Single Sealed Gasket Push-on type joint	U.S. Pipe	Tyton	Section 330504, Page 10, 3.3.C
Single Sealed Gasket Push-on type joint	McWane Inc.	Tyton	Section 330504, Page 10, 3.3.C
Two-part Coal tar Epoxy	Madewell Products Corp.	Madewell 1104	Section 330518, Page 6, 3.2 G.4

**Collier County Public Utilities Department
County Approved Product List
Water Systems**

NOTES:

- 1) 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.
2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Automatic Flushing Device, Ground Mounted	Mueller/Hydro-Guard	HG-1	W-2
Automatic Flushing Device, Ground Mounted	Kupferle Foundry Company	Eclipse #9400-WC	W-2
Automatic Flushing Device, Hydrant Mounted	Mueller/Hydro-Guard	HG-6	W-2
Automatic Flushing Device, Hydrant Mounted	Kupferle Foundry Company	Eclipse #9700	W-2
Backflow Preventer Assembly	See Approved Backflow Devices List, Appendix G		
Bushing	Ford	C18	W-6
Corporation Stops	Ford	F1100NL SERIES	W-6
Corporation Stops	Ford	FB1100NL SERIES	W-6
Corporation Stops	A.Y. McDonald	4104NL	W-5
Corporation Stops	A.Y. McDonald	4101 BF NL	W-5
Corporation Stops	Mueller	H10045N, H15008N	Section 331200, Page 2, 2.3 A.1
Corporation Stops	Mueller	H-10046N/ H-10046	W-5
Coupling	Ford	Model numbers vary by application	W-6
Coupling	A.Y. McDonald	Model numbers vary by application	W-6
Coupling	Mueller	Model numbers vary by application	W-6
Curb Stop	Ford	B43xxxW-NL	W-12
Curb Stop	A.Y. McDonald	76102-22	W-12
Curb Stop	Mueller	Mark II Oriseal H-15172N	Section 331200, Page 2, 2.3 A.1

**Collier County Public Utilities Department
County Approved Product List
Water Systems**

NOTES:

- 1) 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.
2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
HDPE Stab Fitting	Elster	Hydrosert	
Hydrant	American Darling	6-inch B-84-B	Section 331619, Page 2, 2.1 G
Hydrant	Clow	Medallion	Section 331619, Page 2, 2.1 G
Hydrant	Mueller	Centurion A-423	Section 331619, Page 2, 2.1 G
Meter Box, Light Duty	DFW	Light Duty	W-12
Meter Box, Light Duty	Carson	Light Duty	W-12
Meter Box, Heavy Duty (Staff Use)	DFW	Heavy Duty	W-12
Meter Box, Heavy Duty (Staff Use)	Carson	Heavy Duty	W-12
Meter Box, Heavy Duty (Staff Use)	Hubbel	Heavy Duty	W-12
Meter, Fire Protection (3", 4", 6", 8")	Elster AMCO	evoQ4 Electromagnetic Meter	W-9/W-14
Meter, Fire Protection (3", 4", 6", 8", 10")	Neptune	HP Fire Service Turbine Meter	W-9/W-14
Meter, Fire Protection (3/4", 1", 1-1/2", 2")	Mueller Systems - Hersey	Residential Fire Meter	W
Meter, Fire Protection (4", 6", 8", 10")	Neptune	HP Protectus III Fire Service Meter	W-9/W-14
Meter, Potable Water	Neptune	Tru/Flo	W-13
Pedestal Housing	Channel	CCWD Signature Series SPH	W-5
Pedestal Housing	Water Plus Corp	131632	NP-4
Pedestal Housing	PenCell Plastics	AV142034HDHS001009	NP-4
Sampling Station	Kupferle Foundry Company	Eclipse 88WC	W-6
Sampling Station	Water Plus Corp	301W	W-6
Sampling Station	GIL Industries	3/4"	W-6

**Collier County Public Utilities Department
County Approved Product List
Water Systems**

NOTES:

- 1) 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.
2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Service Saddles (Brass)	Ford	F202B	Section 331200, Page 7, 2.3 G.1
Service Saddles (Brass)	Mueller	DR2 B	Section 331200, Page 7, 2.3 G.1
Service Saddles (PVC) Perm Bact Sample Point	Powerseal	P3401 SERIES	Section 331200, Page 7, 2.3 G.1/W-6
Service Saddles (PVC) Perm Bact Sample Point	Ford	S 90 SERIES	Section 331200, Page 7, 2.3 G.1/W-6
Service Wye	Ford	Y44-xxx-NL	W-12
Strainer, Flanged (Staff Use)	Mars	Z-plate	
Strainer, Flanged (Staff Use)	Neptune	Rilsan nylon-coated ductile iron	
Tapping Saddle/ Hot taps	Powerseal	P3490MJ Series	W-12
Valve Box	Tyler/Union	461	Section 331200, Page 4, 2.3 B.2
Valve Box, Locking Cover	AMPro USA	LL562	Section 331200, Page , 2.3 B.2.
Valve Setter	Wilkins	WMJS	W-9A/W-11A
Valve, Air	Val-Matic	Model 801AS	W-11/W-14/W-16
Valve, Air Release	A.R.I.	D-040 (nylon), D-040 ST ST (SS)	W-5
Valve, Bacterial Sampling Station Line	Mueller	Mark II Oriseal	Section 331200, Page 3, 2.3 A.1
Valve, Ball	Ford		Section 331200, Page 3, 2.3 A.1
Valves and Appurtenances	American Darling		Section 331200 2.3 A
Valves and Appurtenances	A.Y. McDonald		Section 331200 2.3 A
Valves and Appurtenances	Clow		Section 331200 2.3 A
Valves and Appurtenances	Ford		Section 331200 2.3 A
Valves and Appurtenances	Kennedy		Section 331200 2.3 A
Valves and Appurtenances	Mueller		Section 331200 2.3 A
Valves and Appurtenances	U.S. Pipe		Section 331200 2.3 A

Collier County Public Utilities Department
County Approved Product List
Irrigation Quality (IQ) Systems

NOTES:

1) 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.

2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
120VAC Surge Suppressor	Edco	HSP121	NP-E3
12VDC Power Supply	Allen Bradley	1606-XLS	NP-E3
12VDC Power Supply	Sola HD	SDN-P	NP-E3
12VDC Power Supply	PULS	Dimension - QS	NP-E3
24VDC Power Supply	Allen Bradley	1606-XLE	NP-E3
24VDC Power Supply	Sola HD	SDN-P	NP-E3
24VDC Power Supply	PULS	Dimension - QS	NP-E3
Antenna Subsystem	Data Flow Systems, Inc.	RTA209 Yagi Antenna	NP-E9
Back Pressure Sustaining Valve	Ames	No. 920	NP-1/NP-E2
Plate Strainer, Top Access	Mars		NP-1/NP-E2
Corporation Stops	Ford	FB 1100-NL/ FB 1100	NP-2
Corporation Stops	A.Y. McDonald	74704B	NP-2
Corporation Stops	A.Y. McDonald	74104NL/ 74104	NP-4
Corporation Stops	A.Y. McDonald	74101 BF NL/ 74101 BF	NP-4
Corporation Stops	Mueller	H-10046N/ H-10046	NP-4
Curb Stop	Ford	B43-444W-NL, Compression x Meter Swivel	NP-2
Data Radio	Integra	TR	NP-E3
Data Signal Line Surge Processor	Edco	PC642 Series	NP-E3
Geomembrane	GSE Environmental		Section 334713, Page 4, 1.6 A.1
Level Transducer	Wika		NP-E6

Collier County Public Utilities Department
County Approved Product List
Irrigation Quality (IQ) Systems

NOTES:

- 1) 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.
- 2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Meter Box	DFW	12" D1200 AMR Series, Light Duty	NP-2
Meter Box	Carson	Light Duty	NP-2
Flow Meter, Magnetic	Endress+Hauser	W400	NP-1/NP-E2
Meter, Non-Potable Propeller	McCrometer	Water Specialties No. ML-04-X with 4-20 MA Output Transmitter, TR-16	NP-1/NP-E2
Pedestal Housing	Channel	CCWD Signature Series SPH14206C1B1L01	NP-4
Pedestal Housing	Water Plus Corp	131632	NP-4
Pedestal Housing	PenCell Plastics	AV142034HDHS001009	NP-4
Rain Gauge	ISCO	674	NP-E5
Service Wye	Ford	Y44-264-NL	NP-2
Service Wye	A.Y. McDonald	708YS22	NP-2
Service Wye	Mueller	P-15343N	NP-2
Surge Suppression	Edco	SS65 Series	NP-E6/NP-E7
Surge Suppression	CITEL	TSP15M	NP-E6/NP-E7
Surge Suppression, Main Service	Lea	USP-M Series	NP-E5
Tapping Saddle/ Hot taps	Powerseal	P3490MJ Series	NP-2
Valve, Air Release	A.R.I.	D-040	NP-4
Valve, Air Release	A.R.I.	D-040 SS	NP-4
Valve, Air Release	GA Industries	942SS	NP-4
Valve, Air Release	GA Industries	Combination	Section 1 2.7/NP-1/NP-4/NP-E2
Valve, Rising Stem Gate/ OS&Y	American Flow Control	AFC-2500 SERIES	NP-1/NP-E2
Valve, V-Port Ball	DeZurik	VPB - flanged, type 317 stainless, and Teflon seat and bearings	NP-1

Collier County Public Utilities Department
County Approved Product List
Irrigation Quality (IQ) Systems

NOTES:

- 1) 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.
 2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Valve, V-Port Ball - Motor (Actuator)	Rotork	IQTM	NP-E2

**Collier County Public Utilities Department
County Approved Product List
Wastewater Systems**

NOTES:

- 1) 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.
2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Access Frame (Pump Station)	U.S. Foundry	AHD	WW-7/WW-8
Access Hatch, Aluminum	Bilco	J-AL H20 (5-1/2" depth)	WW-13
Access Hatch, Aluminum	Halliday	H1W (3-1/2" depth)	WW-13
Access Hatch, Aluminum	U.S. Foundry	AHS (5" depth)	WW-13
Antenna Subsystem	Data Flow Systems, Inc.	RTA209 Yagi Antenna	Section 333200, Page 4, 2.1 J/WW-17
Biofiltration Odor Control System	Evoqua	Zabocs (pre-engineered)	Section 333200, Page 5, 2.1 P
Ceramic Epoxy Lining	Vulcan Painters	Protecto 401 Coating	Section 330504, Page 3, 2.1.B
Chimney Seal	Cretex		Section 333913, Page 4, 2.2 K/WW-3/WW-4/WW-5
Chimney Seal	Trelleborg		Section 333913, Page 4, 2.2 K/WW-3/WW-4/WW-5
Coaxial Cable	Data Flow Systems, Inc.	RTC 400	Section 333200, Page 2.1 J/WW-17
Diaphragm Seals	Ashcroft		Section 333313, Page 8, 2.2 G
Diaphragm Seals	Mansfield and Green	Type SB	Section 333313, Page 8, 2.2 G
Diaphragm Seals	Trerice		Section 333313, Page 8, 2.2 G
Flanged Adapter Connections	EBAA Iron Sales	E2100 SERIES	Section 333313, Page 8, 2.2 F.1.c-
Flanged Adapter Connections	Victaulic	Vic Flange Style 741	Section 333313, Page 8, 2.2 F.1.c-
Flow Meter	Endress-Hauser	Promag W400	Section 333313, Page 9, 2.2 M.1
Generator Receptacle and Angle Adapter	Crouse-Hinds	AR2042 with S22 option, and an AJA1 angle adaptor	WW-7/WW-9
Grass Covered Porous Pavement	Invisible Structures	Grasspave2	WW-8/WW-8A/WW-8B
Inflow Protector, Stainless Steel	Sewer Shield, Inc. Maitland, FL		Section 333913, Page 4, 2.2 K
Internal Protection	IET Sytems	IET Coating System	Section 333913, Page 5, 3.1 F/Section 099723/WW-3/WW-4/WW-5/WW-7

**Collier County Public Utilities Department
County Approved Product List
Wastewater Systems**

NOTES:

- 1) 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.
2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Internal Protection	Raven Lining Systems - Broken Arrow, OK	Raven 405	Section 333913, Page 5, 3.1F/Section 099723/WW-3/WW-4/WW-5/WW-7
Internal Protection	Kerneos - Chesapeake, VA	Sewpercoat Lining System	Section 333913, Page 5, 3.1F/Section 099723/WW-3/WW-4/WW-5/WW-7
Junction Box	Hoffman	A12106NFSS	WW-9
Lightning Arrestor	Square D	SDSA-1175 for 1-phase	Section 333200, Page 5, 2.1 O/WW-9
Lightning Arrestor	Square D	SDSA-3650 for 3-phase	Section 333200, Page 5, 2.1 O/WW-9
Liquid Level Regulators (Float Switch)	Roto-Float		WW-7/WW-8
Liquid Level Regulator (Float Switch)	Dura-Float	2900 Series B4	WW-7/WW-8
Pipe Interior Lining	Permax CTF	Ceramic Epoxy Lining	Section 330504, Page 3, 2.1 B
Plastic Joint Sealing Compound	Hamilton Kent, Toronto/Ontario, Canada	Kent-Seal	Section 333913, Pages 2, 2.1 A/WW-3/WW-4/WW-5/WW-6/WW-7/WW-18
Plastic Joint Sealing Compound	Henry	Ram-Nek	Section 333913, Pages 2, 2.1 A/WW-3/WW-4/WW-5/WW-6/WW-7/WW-18
Polymer Concrete Manholes	US Composite Pipe, Inc.		Section 034100, Page 5, 2.2 D
Polymer Concrete Manholes	Armorock		Section 034100, Page 5, 2.2 D
Pump Control Panel	ECS		Section 333200, Page 43, 2.1 I/WW-7/WW-9
Pump Control Panel	Suncoast Hydraulic		Section 333200, Page 43, 2.1 I/WW-7/WW-9
Pump Controller	Data Flow Systems, Inc.	TCU	Section 333200, Page 3, 2.1 J
Riser Ring, HDPE/EPP	Ladtech/Cretex(EPP)	Riser Ring	Section 333913, Page 4, 2.2 L
Sealing Element	GPT	Link-Seal	Section 333313, Page 9, 2.2 I.1/WW-18
Sewage Pump	Flygt	N-Series	Section 333200, Page 2, 2.1 D
Sewer Clean-Out Rim and Cover	U.S. Foundry	7621	WW-11

**Collier County Public Utilities Department
County Approved Product List
Wastewater Systems**

NOTES:

- 1) 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.
2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Sewer Manhole Frame and Covers	Pamrex		WW-5
Sewer Manhole Frame and Covers	U.S. Foundry	105M	WW-2
Sewer Manhole Frame and Covers	U.S. Foundry	420-C-ORS	Section 333913, Page 2, 2.1A/WW-3/WW-4/WW-5/WW-6/WW-18
Sleeve Type Couplings	Powerseal	STYLE 3501	Section 333313, Page 8, 2.2 F.1.d-
Sleeve Type Couplings	Dresser	Style 38	Section 333313, Page 8, 2.2 F.1.d-
Sleeve Type Couplings	Smith Blair	Style 413	Section 333313, Page 8, 2.2 F.1.d-
Tower	Rohn		WW-17
Valve Box	Brooks		WW-9
Valve, 3-Way Plug (Staff Use)	Milliken Valve Co.	Modle M604	WW-7/WW-8
Valve, 3-Way Plug (Staff Use)	Dezurik	Model D202	WW-7/WW-8
Valve, Air Release	HTECH	2" SS MODEL # 8889860041	WW-13/WW-14/Section 333313, Page 7, 2.2 D.11
Valve, Air Release	A.R.I.	D-025	WW-13/WW-14/Section 333313, Page 7, 2.2 D.11
Valve, Check	Kennedy Valve Manufacturing Co.	MODEL 1106LW/106LW	WW-7/WW-8/Section 333313, Page 5, 2.2 C
Valve, Check	Mueller	A-2600, A2602	WW-7/WW-8, Section 333313, Page 5, 2.2 C
Valve, Check	Milliken Valve Co.	8001	WW-7/WW-8, Section 333313, Page 5, 2.2 C
Valve, Check	GA Industries	340-W	WW-7/WW-8, Section 333313, Page 5, 2.2 C
Valve, Duckbill (Staff Use)	Red Valve Co., Inc. Longwood, FL	"Tideflex"	WW-7

**Collier County Public Utilities Department
County Approved Product List
Wastewater Systems**

NOTES:

- 1) 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.
 2) If a product is not listed, refer to the Specifications for performance standards.

Item	Manufacturer	Model(s)	Location in Standards Manual
Valves, Plug	DeZurik	Model PEC & PEF (MJ & Flange)	WW-7/WW-8(A)(B)/Section 333313, Page 2, 2.2 A.1
Valves, Plug	Milliken Valve Co.	Model M600 & M601 (MJ & Flange)	WW-7/WW-8(A)(B)/Section 333313, Page 2, 2.2 A.1

Approved Backflow Preventers

VENDOR	SIZE	MODEL NO.	TYPE	USE
Ames / Watts	3/4" - 2"	400B / 919	RP	Residential or commercial potable water locations
Watts	3/4" - 2"	909-009 Series	RP	Residential or commercial potable water locations
Wilkins	3/4" - 2"	975	RP	Residential or commercial potable water locations

Ames / Watts	2.5" - 10"	C-400 / 957	RP	Large size meter - potable water for commercial or residential applications
Watts	2.5" - 10"	909	RP	Large size meter - potable water for commercial or residential applications
Wilkins	2.5" - 10"	375	RP	Large size meter - potable water for commercial or residential applications

Note: All fire line Backflow Devices shall be Reduced Pressure assemblies, UL or FM Approved for fire service installation, be supplied with ammonia and chlorine resistant seats, and be supplied with silicone rubber seals. All fire connections must be metered using a line size meter, UL or FM approved for fire use. Detector check assemblies are not equal to a line size meter.

Below is a list of UL or FM approved fire line backflows, others may be used if requirements are met and information is provided.

Ames	3/4" - 2"	4000B-LBV	RP	Fire Lines
Watts	3/4" - 2"	009LF	RP	Fire Lines
Wilkins	3/4" - 2"	975XL (w/OS&Y only)	RP	Fire Lines

Ames Colt	2.5" - 10"	C-400 (w/OS&Y only)	RP	Fire Lines
Watts	2.5" - 10"	909 (w/OS&Y only)	RP	Fire Lines
Wilkins	2.5" - 10"	375	RP	Fire Lines

Below is a list of UL or FM approved fire meters, others may be used if information is provided.

Hersey-Meters	3/4" - 2"	Residential Fire Meter	Meter	Private Fire Lines
Neptune	3" - 10"	HP Fire Service Turbine Meter	Meter	Private Fire Lines
Neptune	4" - 10"	HP Protectus III Fire Service Meter	Meter	County Owned Combination Fire Lines/Private Fire Lines