

# **ATTACHMENT – SUMMARY OF REVISIONS TO THE JULY 2005 EDITION OF THE COLLIER COUNTY UTILITIES STANDARDS MANUAL**

## **SECTION 3 - DETAIL DRAWINGS**

1. The computer format of each Detail Drawing has been revised for easier Computer Aided Design (CAD) use.
2. All statements regarding acceptable manufacturers were changed from “or equal” to “or County approved equal.”
3. Requirements were revised for restrained pipe lengths – a new Detail Drawing specifying new reduced lengths was created.
4. The requirements for Contractors to contact Sunshine One Call and Utility Companies prior to excavation were clarified.
5. Nine new Detail Drawings were created for Reclaimed Water Electrical and Instrumentation & Controls infrastructure.
6. The force main Air Release Valve Detail Drawing was revised.
7. The requirement for valves at each end of Directional Drill Piping was clarified.
8. Various Water Department-requested revisions including changes to acceptable manufacturers and addition of a maintenance driveway at large water meters were incorporated.
9. Sizes of grease interceptors were revised to comply with the Florida Department of Health and the Florida Administrative Code (F.A.C.).

## **SECTIONS 1 & 2 - DESIGN CRITERIA and TECHNICAL SPECIFICATIONS**

1. A new specification section was provided regarding Pipe Removal and Demolition.
2. A new specification section was provided regarding Record Drawings, which amplifies the existing requirements for surveyed as-built information.
3. The possible use of butterfly valves in water mains was deleted.

## **SECTION 4 - APPENDICES**

1. The Deviation Form (Appendix A) will be available in Microsoft Word format and will be more easily accessible from the County website.
2. The Water Meter Sizing Form (Appendix B) was revised to comply with the Florida Building Code.
3. A New Product Form (Appendix E) was developed for manufacturers and vendors to submit materials and services for consideration of County approval.

The 2006 Utilities Standards Manual can be viewed at the Collier County Public Utilities web site.

***A detailed list of all changes made since July 2005 can be found on the following 9 pages.***

# CHANGES SINCE THE JULY 2005 EDITION OF THE COLLIER COUNTY UTILITIES STANDARDS MANUAL

## CHANGES TO STANDARD DETAILS – SECTION 3

No.	Revision	Date	Comments
ALL	<b>GENERAL REVISIONS EACH DETAIL:</b> (1) EACH DETAIL CHANGED TO MODEL SPACE IN AUTOCAD; (2) ALL DETAILS PURGED; (3) MOVED INSERTION PONT TO 0,0; (4) SCALED TO 8.5 BY 11 PAPER; (5) CHECKED FOR CONSISTENT FONT; (6) REVISED LAYERS AND TEXT FOR CONSISTENCY; AND (7) CORRECTED SPELLING AND ABBREVIATIONS.	3/21/06	DATES ON EACH DETAIL CHANGED TO:  REVISED: APRIL 2007  Copy of each detail provided to DSAC Subcommittee meeting attendees on 3/21/06.
ALL	<b>GENERAL REVISION:</b> Replace text “ <del>er equal</del> ” and “ <del>er approved equal</del> ” with “or County approved equal”.	4/18/06	Subcommittee approval; changed Details G-5, NP-1, NP-4, NP-5, W-2, W-6, W-12, WW-2 thru WW-5, WW-6
<b>GENERAL DETAILS</b>			
G-1	Added text to end of Note 1	3/06	Water Dept requested minor change
G-2	Added Notes 4 & 5		
	Added text to end of Note 1	3/06	Water Dept requested minor change
	Deleted Notes 4 and 5 regarding steel casing and pipe class in subdivisions.	4/18/06	Subcommittee approval
G-2A	New Detail		
	Added steel casing to section; replaced note 4 regarding casing with new Note 4 regarding ROW permit stipulations.	4/18/06	Subcommittee approval
		5/16/06	Subcommittee approval
G-2B	New Detail		
	Replaced note 4 regarding casing with new Note 4 regarding ROW permit stipulations.	5/16/06	Subcommittee approval
G-3	Removed Existing Note 5		Duplicate of Note 4; Note 6 became Note 5
	Added Notes 6 & 7		
	Added to Note 1 regarding vertical separation and revise definition of pipe clearances between pipes		
	Changed Pipe Callouts in Note 2		
	Note 2: Revise second line in parenthesis to state “(Class 235 AWWA C-905, DR 18..)” in lieu of Class 165, DR 25.	4/18/06	Subcommittee approval
	Revised Note 2 to requires Deviation Form if vertical clearance is less than 18 inches; revised pipe class for PVC pipe sizes >12”.	4/18/06	Subcommittee approval
G-4	Added Note 6		
	Removed restrained pipe length table and associated notes to new Detail G-10.	5/16/06	Subcommittee approval
G-5	Added to Note 1 regarding sub-aqueous crossings		
G-6			No changes identified
G-7			No changes identified

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No.	Revision	Date	Comments
G-8	Revised valve distance from each end of casing to be 40 ft; valve distance less than 40 ft will require Deviation Form; Note 9 revised to require valve to isolate the HDD	4/18/06	Subcommittee approval
G-9	Added Note 6 to revise valve distance from each end of casing to be 40 ft; valve distance less than 40 ft will require Deviation Form; valves to isolate the HDD	4/18/06	Subcommittee approval
G-9A	Delete old Detail and substitute new Detail		
G-10	New Detail for Restrained Pipe Lengths; revised pipe lengths	5/16/06	Subcommittee approval; restrained pipe lengths previously shown on G-4; required pipe lengths re-calculated and revised.

**NON-POTABLE WATER DETAILS**

NP-1	Detail is deleted; not needed		
NP-2 NP-1	Revise motor actuated valve to be open/close rather than modulating	5/16/06	Subcommittee approval
NP-3	Detail is deleted; covered in NP Electrical Details		
NP-4 NP-2	Revise to show long service and short service tubing sizes; clarify meter and valve by customer	7/18/06	Subcommittee approval
NP-5 NP-3	Probable future deletion of old Detail and substitute new Detail; No changes at this time	8/15/06	Change to Detail ID number only

**NON-POTABLE WATER DETAILS: ELECTRICAL & INSTRUMENTATION**

NP-E1 thru NP-E9	Nine new drawings prepared by Dennis McGee for incorporation into the Manual. These drawings will be available on the website in two formats, AutoCAD 11" by 17" DWG format and Adobe 8.5" by 11" PDF format.	10/18/05  4/24/06  5/16/06	DSAC Subcommittee approval; these drawings address irrigation/reclaimed water connections with open/closed valves are currently not available to the public.  Revised Drawings (Standard Details) are approved by PUED.  Subcommittee approval
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**WATER DETAILS**

W-1	Deleted text "Megalug"	4/18/06	Subcommittee approval
W-2	Callout flushing device model		
	Change ¾ stone to #57 stone	3/06	Water Dept requested minor change
	Added text to end of Note 6	3/06	Water Dept requested minor change
	Delete Note 6	7/18/06	DSAC Subcommittee approval
W-3	Changed Note 3 to reflect use of SS or ductile iron saddles for all sizes	8/16/05	DSAC Subcommittee approval
	Deleted text "Megalug"	4/18/06	Subcommittee approval
W-4	Added to Note 4 regarding asbestos cement pipe		
	Remove Febco as approved BFP supplier and substitute Ames	3/06	Water Dept requested minor change
	Changed Note 3 to reflect use of SS or ductile iron saddles for all sizes	8/16/05	DSAC Subcommittee approval
	Deleted text "Megalug"	4/18/06	Subcommittee approval

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<b>No.</b>	<b>Revision</b>	<b>Date</b>	<b>Comments</b>
W-5	Changed Pedestal Callout		
	Add ARI D-040 as equal for air release valve	8/16/05	DSAC Subcommittee approval
	Removed "or approved equal" from ARV callout		
	Revised Elbow Callout		
	Change ¾ stone to #57 stone	3/06	Water Dept requested minor change
W-6	Added reinforcing and depth to concrete collar	3/06	Water Dept requested minor change
W-7	Changed Note 7 to reflect use of SS or ductile iron saddles for all sizes	8/16/05	DSAC Subcommittee approval
	Deleted text "Megalug"	4/18/06	Subcommittee approval
W-8	Corrected spelling of Conbraco	3/06	Water Dept requested minor change
	Remove Febco as approved supplier and substitute Ames	3/06	Water Dept requested minor change
	Add Note 7 requiring a ¾-inch bypass flow meter	3/06	Water Dept requested minor change
W-9	Remove Febco as approved supplier and substitute Ames	3/06	Water Dept requested minor change
	Deleted text "Megalug"	4/18/06	Subcommittee approval
W-9A	New Detail: Temporary water/fire supply with compact backflow preventer	8/15/06	DSAC Subcommittee approval
W-10	Remove Febco as approved supplier and substitute Ames	3/06	Water Dept requested minor change
	Add ARI D-040 as equal for air release valve	8/16/05	Implied by DSAC Subcommittee approval of W-5; Water Dept requested minor change
	Note 11: Remove reference to A.M.R. meter	3/06	Water Dept requested minor change
	Deleted text "Megalug"; pipe supports to be stainless steel	4/18/06	Subcommittee approval
W-10A	Old Detail deleted in its entirety; see new Detail	3/06	Water Dept requested minor change
	Rotated valve assembly to indicate proper flow	3/06	Water Dept requested minor change
	Added flanged strainer upstream of valve assembly	3/06	Water Dept requested minor change
	Changes sizes from 4" to 8" to be 4" thru 10"	4/18/06	Subcommittee authorization for Hole Montes research and revision
W-11	Remove Febco as approved supplier and substitute Ames	3/06	Water Dept requested minor change
	Deleted text "Megalug"; pipe supports to be stainless steel	4/18/06	Subcommittee approval
W-11A	Added flanged strainer upstream of valve assembly	3/06	Water Dept requested minor change
	Add Note 10 requiring a ¾-inch bypass flow meter	3/06	Water Dept requested minor change
	Change size from 8" only to be 4" thru 10"	4/18/06	Subcommittee authorization for Hole Montes research and revision
W-11B	Detail to be deleted as product no longer available	3/06	Water Dept requested minor change
W-12	Note 4.D revised to have one size clearly stated for both long and short services;	4/18/06	Subcommittee approval

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<b>No.</b>	<b>Revision</b>	<b>Date</b>	<b>Comments</b>
	revise corp stop and tubing sizes; remove strainer from meter box detail; shown RPZ device and gate valve by customer	7/18/06	Subcommittee approval
W-13	Removed ABB compound meter and inserted AMCO C3000		
	Compound Meter callouts revised		
	Added 8" Flanged Tee & Cap Callout		
	Clarified wording to Notes 4, 5, 6, & 10		Intent of wording not changed.
	Note 11 Added		
	Notes 10 and 11 removed	3/06	Water Dept requested minor change
	Remove Febco as approved BFP supplier and substitute Ames	3/06	Water Dept requested minor change
	Deleted text "Megalug"; pipe supports to be stainless steel; add info for concrete slab rebar and size; clarify Note 6 as follows: add "from the meter assembly" after the word "equipment"; Delete Note 9 regarding auto meter reader	4/18/06	Subcommittee approval
W-14	Remove Febco as approved supplier and substitute Ames	3/06	Water Dept requested minor change
	Added new Note 8 requiring epoxy lining to strainer	3/06	Water Dept requested minor change
	Deleted previous Notes 8 and 9	3/06	Water Dept requested minor change
	Deleted text "Megalug"; pipe supports to be stainless steel; add info for concrete slab rebar and size; clarify Note 6 as follows: add "from the meter assembly" after the word "equipment"	4/18/06	Subcommittee approval
W-14A	New Detail: Maintenance parking at water meters 6" and over	8/15/06	DSAC Subcommittee approval
W-15	Remove Febco as approved supplier and substitute Ames	3/06	Water Dept requested minor change
	Added new Note 8 requiring epoxy lining to strainer	3/06	Water Dept requested minor change
	Deleted text "Megalug"; pipe supports to be stainless steel; add info for concrete slab rebar and size; add gauge cock & snubber	4/18/06	Subcommittee approval
W-16	Remove Febco as approved supplier and substitute Ames	3/06	Water Dept requested minor change
	Deleted text "Megalug"; pipe supports to be stainless steel; add info for concrete slab rebar and size; slab width to be 6 ft; add gauge cock & snubber	4/18/06	Subcommittee approval
W-16A	Detail to be deleted	3/06	Water Dept requested change
<b>WASTEWATER DETAILS</b>			
WW-1	Deleted text "Megalug"	4/18/06	Subcommittee approval
WW-2			No changes identified
WW-3	Remove Ram-Nek joint callout at rim and cover of manhole	4/26/05	
	Add text to rim callout regarding elevation in unpaved areas		
	Added note to Section: Pipe shall be		

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<b>No.</b>	<b>Revision</b>	<b>Date</b>	<b>Comments</b>
	beveled or square		
	Added 304 SS Inflow Protector		
	Added "Or County approved equal" to Cretex chimney seal	4/26/05	
	Revise to eliminate manhole in unpaved area	5/16/06	Subcommittee approval
WW-4	Added "Or County approved equal" to Cretex chimney seal	4/26/05	
	Add text to rim callout regarding elevation in unpaved areas		
	Added 304 SS Inflow Protector		
	Added note to Section: Pipe shall be beveled or square		
	Removed Ram-Nek joint callout at rim & cover	4/26/05	
	Revise to eliminate manhole in unpaved area	5/16/06	Subcommittee approval
WW-5	Added "Or County approved equal" to Cretex chimney seal	4/26/05	
	Add text to rim callout regarding elevation in unpaved areas		
	Added 304 SS Inflow Protector		
	Added note to Section: Pipe shall be beveled or square		
	Removed Ram-Nek joint callout at rim & cover	4/26/05	
	Revise to eliminate manhole in unpaved area	5/16/06	Subcommittee approval
WW-6	Added 304 SS Inflow Protector		
	Revised note on cast iron frame to state "...frame on concrete to be..."	4/18/06	Subcommittee approval
	Manhole ring and cover revised to only in paved areas and flush with pavement	5/16/06	Subcommittee approval
WW-7	Pipe supports in vault to be stainless steel	4/18/06	Subcommittee approval
WW-8	Added Electrical Disconnect to Control Panel		
	Number of Intake Lines Removed from Odor Control Table		
	Removed most of Note 5 on control panel and made reference to technical specs		
	Added Note 15		
WW-8A	New Detail		
WW-8B	New Detail		
WW-9	Added text "Installed In Conduit" to ground rod		
	Added Note 5		
WW-10	Revised 2' dimension shown for C.O. height to be at time of preliminary utility inspection; C.O. to be lowered to finish grade at time of plumber's tie-in; revise offset from ROW line to be 3"-12"	5/16/06	Subcommittee approval
WW-11			No changes identified
WW-12	Revised 2' dimension shown for C.O.	5/16/06	Subcommittee approval

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	height to be at time of preliminary utility inspection; C.O. to be lowered to finish grade at time of plumber's tie-in; revise offset from ROW line to be 3"-12"		
WW-13	Remove Ram-Nek joint from rim callout		
	Changed Riser Ring callout		
	Changed Grout to Ram-Nek		
	Removed "or approved equal" from ARV		
	Major revisions to piping and structure to allow 30" cover of pipe; Detail only applicable in unpaved areas; top of structure to be approx 2" above adjacent grade and have slope to top	4/18/06	Major revision approved by DSAC Subcommittee
WW-14	Removed "EFF" from frame & cover callout		
	Removed "effluent main" from pipe callout		
	Added ** Note on Deviation		
	Delete old Detail; new detail is similar to revised WW-13 except Detail is applicable for paved areas	4/18/06	Major revision approved by DSAC Subcommittee
WW-15			No changes identified
WW-16	Revised 2' dimension shown for C.O. height to be at time of preliminary utility inspection; C.O. to be lowered to finish grade at time of plumber's tie-in; revise offset from ROW line to be 3"-12"	5/16/06	Subcommittee approval
WW-17	Revised antenna base to be designed by FL P.E. to current Building Code	7/18/06	Subcommittee approval
	Add note clarifying telemetry is not required for privately owned and maintained stations	9/06/06	DSAC approval
WW-18	Removed "Consult with Collier County Staff for" in Note D		
	Revised structural design criteria; added design submittal by PE; added witnessed leakage test; revised depth of liquid; revised structural connections at piping; revised table of acceptable sizes	5/16/06	Subcommittee approval subject to approval of Millie Kelley with Wastewater Dept; approval received 6/1/06.
	Re-evaluate structure wall and slab thickness; revised to 6 inches minimum; eliminate proposed Notes 1 and 2.	8/15/06	DSAC Subcommittee approval
WW-18A			No changes identified

**CHANGES TO TECHNICAL SPECIFICATIONS – SECTION 2**

Additions to text from Section 2 are shown in bold print, and deletions are shown with strike-through.

No.	Revision	Date	Comments
All Sections	Replace text " <del>or equal</del> " and " <del>or approved equal</del> " with " <b>or County approved equal</b> ".	5/16/06	Subcommittee approval based on PUED request to clarify use of or equal suppliers; Total of 27 locations in Technical Sections 02226, 02400, 02607, 02622, 02630, 02650, 02675,

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No.	Revision	Date	Comments
			02700, 13511, 15100 and 15110
01026	Measurement and Payment Section, Subtitle, Page 1: Replace “( <del>Applies only to Collier County Utilities Projects or Works, not to Private Developments and not to Collier County Transportation Projects</del> )” with the following “( <b>Applies only to Collier County Public Utilities Projects or Works and Utilities Portions of Collier County Transportation Projects, but not to Private Developments</b> )”	5/16/06	Subcommittee approval
01045	Paragraph 1.3.F, Page 2: (1) Insert following text after end of third sentence “Before commencement of any excavation, the existing underground utilities in the area affected by the work must be marked by Sunshine One Call after proper notification to them by either calling 800/432-4770 or email www.callsunshine.com. Before commencing excavation for the work, potholing of all potential conflicts must be performed.” (2) Insert the following text prior to the last sentence “In the event the potholing and/or vacuum soft dig does not locate the marked utility, work must be stopped and the affected utility owner contacted.”	3/21/06  5/16/06	DSAC Subcommittee approval to correctly identify the firm and phone numbers for contractors to call prior to any excavation.  Subcommittee approval
01090	Paragraph 1.5, Page 5: Add following text to include two additional reference books: T. Metcalf and Eddy, Wastewater Engineering Treatment and Reuse, 4 <sup>th</sup> Edition, McGraw-Hill, 2002. U. Water Environment Federation, Manual of Practice No. 11, Operation of Municipal Wastewater Treatment Plants, 601 Wythe Street, Alexandria, VA 22314-1994	5/16/06	Subcommittee approval
01600	Paragraph 1.3.A.1.a, Page 3: Revise as noted: “Where request is directly related to an “or <b>County approved</b> equal” clause or other language of same effect in Specifications.”	5/16/06	Subcommittee approval based on PUED request to clarify use of or equal suppliers
01600	Paragraph 1.3.A.2.c, Page 3: Revise as noted: “Or <b>County Approved</b> Equal”: For equipment or materials specified by naming one or more equipment manufacturer(s) and “or <b>County approved</b> equal”, submit request for substitution and approval for any equipment or manufacturer not specifically named.”	5/16/06	Subcommittee approval based on PUED request to clarify use of or equal suppliers
01750	Add new Specification Section, Record Drawings.	8/15/06	DSAC Subcommittee approval
	Paragraph 3.2.B.3, page 2: Add the following sentence, “ <b>The North American Vertical Datum 1988 (NAVD 88) shall be used.</b> ”	9/27/06	Informal DSAC Subcommittee approval
02210	Add new Section, Pipe Removal and Abandonment	7/18/06	Subcommittee approval



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No.	Revision	Date	Comments
02226	Paragraph 3.1.B.1, Page 4: Revise third line as noted "Use skids installed <del>7 feet or less on center</del> <b>with 6 ft to 10 ft spacing as recommended by the manufacturer.</b> "	5/16/06	DSAC Subcommittee approval; revised spec to conform to Std Detail G-5
02622	Paragraph 1.3, Pages 2 and 3: Delete paragraphs A, B and C in their entirety and replace with same paragraphs from 2004 Standards Manual. This substitution correctly requires pipe not under pavement to be SDR 18 (4"-12") and 25 (14"-24") and pipe under pavement to be SDR 14 and 18 for same sizes.	3/21/06	DSAC Subcommittee approval; this change corrects error in PVC pipe pressure classes made in 2005 Manual and substitutes 2004 Manual version.
02622	Paragraph 1.3.B, Page 2: Revise text in twelfth line "...Romac "Grip Ring," <b>Sigma</b> or Star restraint."	8/16/05	DSAC Subcommittee approval of Sigma as acceptable supplier
02622	Paragraph 2.1.L.1, Page 5: Revise text in second line "...Uniflange, <b>Sigma</b> or Star restraint."	8/16/05	DSAC Subcommittee approval of Sigma as acceptable supplier
02630	Paragraph 2.5.F.1, Page 7: Revise text in third line "...Romac Industries, <b>Sigma</b> or Star Restraint."	8/16/05	DSAC Subcommittee approval of Sigma as acceptable supplier
02650	Paragraph 3.2.O.1, Page 9, Revise text in fourth and fifth lines "...marking tape shall be installed <b>two feet (2')</b> <del>below grade one foot (1')</del> <del>above top of pipe</del> during backfill operations..."	5/16/06	DSAC Subcommittee approval; The same change is noted below in Section 1, Design Criteria.
15100	Paragraph 2.3.C, Pages 4 and 5: Delete entire paragraph of subsection C, which allows underground butterfly valves. To accommodate deletion of paragraph .C, revise subsection letters starting with D on page 5 through H on page 8.	8/16/05	DSAC Subcommittee approval; Water Dept request to remove butterfly valves as an acceptable product for use in water mains.

**CHANGES TO DESIGN CRITERIA & APPENDICES – SECTIONS 1 & 4**

Additions to text from Sections 1 and 4 are shown in bold print, and deletions are shown with strike-through.

No.	Revision	Date
Design Criteria – Section 1	Paragraph 1.1, Page 1, Revise text in fourth line of last sub-paragraph as noted: "...placed in the pipe trench <b>two feet (2')</b> <del>below grade</del> <del>or one-half the pipe's bury,</del> <b>whichever is less,</b> <del>one foot (1')</del> <del>above top of pipe</del> and labeled...."	5/16/06
Design Criteria – Section 1	Paragraph 1.2.2, Page 3, Add following text to the end of the first sub-paragraph: "Water mains shall not be placed beneath any existing or proposed building structure."	8/15/06

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No.	Revision	Date
Design Criteria – Section 1	Paragraph 1.2.3, Page 4: Revise twelfth line as noted "...thickness Class 200 AWWA C900 PVC pipe, Class <del>235 465</del> AWWA C905 PVC..."	5/16/06
Design Criteria – Section 1	Paragraph 2.1.4, Page 11, Revise as noted: "All sewer lateral ends shall be provided with a 3M or <b>County approved</b> equal magnetic marker."	5/16/06
Design Criteria – Section 1	Paragraph 2.1.4, Pages 11 and 12: Revise to allow laterals larger than six inches.	8/15/06
Design Criteria – Section 1	Paragraph 2.2.1, Page 12, Revise text in third and fourth lines of last sub-paragraph as noted: "...placed in the pipe trench <b>two feet (2') below grade or one-half the pipe's bury, whichever is less,</b> <del>one foot (1')</del> above top of pipe and labeled..."	5/16/06
Design Criteria – Section 1	Paragraph 2.2.2, Page 13, Add following text to the end of the last sub-paragraph: "Force mains shall not be placed beneath any existing or proposed building structure."	8/15/06
Appendix A	Revise signatures required for Deviation Forms as requested by Water Dept and Wastewater Departments; Add Reclaimed/Irrigation Water to subtitle of Water Deviation Form; General revisions to Wastewater Deviation Form as requested by Wastewater Department; Deviation Forms to be accessible on the website without downloading the entire technical standards.	5/16/06
Appendix B	General revisions to the water meter sizing to conform to the Florida Building Code	8/15/06
Appendix D	Minor changes to Utilities Conveyance Checklist; Added (a) testing of telemetry, (b) pressure testing of irrigation mains, (c) certification of irrigation facilities within right-of-way, and (d) DEP certification for irrigation facilities.	8/15/06

**Note:**

Some changes to Detail Drawings, Section 3, do not have a date identified. These changes were brought to the attention of the Project Manager and Hole Montes at various times between July, 2005 and March, 2006 in response to review comments from Wes Hill of the Collier County Community Development and Engineering Services Division Engineering Services Department.