

REVISION HISTORY

Standards and Standard Details Revised, Added or Removed since last revision date of 1-2013			
Revised			
UC-075 Water Service Installation 7/2013			
UC-600 Pump Station Electrical Material 8/2013			
UC-610 Pump Station Panel 8/2013			
UC-615 Level Controller 8/2013			
02536 Precast Manholes & Cover 8/2013			
11500 Fuel Storage Tanks 8/2013			
15125 Plug Valves 8/2013			
15130 Miscellaneous Valves 8-2013			
WS 2.16 Typical 2" Service Installation with a 2" meter Sheet 1 of 4 5/31/13			
WS 2.16 Typical 2" Service Installation with a 1-1/2" meter Sheet 2 of 4 5/31/13			
WS 4.50 Typical Fire Hydrant Installation with Guard Posts Sheet 1 of 2 2/25/13			
WS 4.50 Typical Fire Hydrant Installation In FDOT Right-of-Way Sheet 2 of 2 2/25/13			
A 1.1 Pavement Restoration - Type V 8/2/13			
A1.2 Pavement Restoration - Type II (State Road) 8/2/13			

Added			

Removed			

Part I - Donation Utility Construction					
Donation Water Mains					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
UC-000	<u>Donation Water Mains</u>	11/2010	6/2005		
UC-005	<u>Project Approval</u>	5/2010	6/2005		
UC-033	<u>Concrete, Mortar and Grout (Short)</u>	6/2005			
UC-055	<u>Structural Work</u>	8/1999			
UC-075	<u>Water Service Installations</u>	7/2013	8/1999		
UC-080	<u>Meter Boxes, Sectional Plates and Vaults for Water Service</u>	1/1999			
UC-085	<u>Water Meter Valves</u>	1/1999			
UC-090	<u>Piling for Aerial Crossing</u>	8/1999			
UC-170	<u>Cleaning and Testing Mains</u>	2/2011	3/2009		
UC-175	<u>Disinfection of Mains</u>	1/1999			
Donation Wastewater Gravity Systems					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
UC-250	<u>Gravity Sewer Systems</u>	8/2011	5/2009		
UC-290	<u>Removal of Sanitary Sewerage and Debris</u>	1/1999			
UC-300	<u>Gravity Sewer Pipe Foundation</u>	1/1999			

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UC-310	<u>Gravity Sewer Service Laterals</u>	8/1999			
UC-320	<u>Sewerage Bypass Pumping and Flow Control</u>	6/2005			
UC-330	<u>Repairs to Department Sewers</u>	8/1999			
UC-350	<u>Sewer Deflection Test</u>	1/1999			
UC-370	<u>Cleaning and Testing Gravity Sewers</u>	2/2011	8/1999		
Donation Pumping Stations					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
UC-500	<u>Donation Pump Stations</u>	12/2009	2/2009		
UC-570	<u>Installation of Pump Station</u>	12/2009	6/2005		
UC-600	<u>Pump Station Electrical Material</u>	8/2013	2/2007		
UC-610	<u>Pump Station Control Panel</u>	8/2013	2/2007		
UC-615	<u>Bubbler Leveler Controller</u>	8/2013	6/2005		
UC-630	<u>Pump Station Testing</u>	6/2005			
Donation Force Mains					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
UC-750	<u>Donation Force Mains</u>	11/2010	6/2005		
Reclaimed Water Systems					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
UC-800	<u>Reclaimed Water System Design and Construction Specifications</u>	6/2008			

Part II - General Provisions					
Division 1 - General Requirements					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
01005	<u>Defined Terms</u>	12/2006			
01011	<u>Site Conditions</u>	8/1999			
01016	<u>Safety Requirements and Protection of Property</u>	2/2009			
01018	<u>Environmental Contamination</u>	2/2009			
01031	<u>Grades, Lines and Levels</u>	1/1999			
01090	<u>Reference Standards</u>	1/1999			
01100	<u>Special Project Procedures</u>	5/2000			
01150	<u>Preconstruction Conference</u>	1/1999			
01340	<u>Shop Drawings</u>	5/2000			
01581	<u>Sub-Aqueous Pipeline Crossing Signage</u>	1/2010	10/2009		
01600	<u>Materials and Equipment Shipping, Handling, Storage and Protection</u>	8/1999			
01710	<u>Cleaning</u>	1/1999			
01720	<u>Project Record Documents</u>	6/2005			
01725	<u>Project As-Builts</u>	1/1999			
01730	<u>Operating and Maintenance Data</u>	1/1999			

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01740	<u>Permits</u>	8/1999			
01750	<u>Maintenance of Traffic and Public Streets</u>	8/1999			
01775	<u>Magnetic Media Submittals</u>	1/1999			

Part III - General Material & Methods of Construction					
Division 2 - Site Work					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
02230	<u>Clearing and Grubbing</u>	8/1999			
02260	<u>Steel Sheet Piling</u>	1/1999			
02314	<u>Excavation, Backfill and Fill for Structural</u>	8/1999			
02315	<u>Trenching and Backfilling for Piping Systems</u>	8/1999			
02536	<u>Precast Manholes & Covers</u>	8/2013	11/2011	5/2009	2/2009
02615	<u>Concrete Protective Liner System for Precast Structures</u>	11/2011	8/1999		
02620	<u>Manhole Frame Sealing System</u>	8/1999			
02625	<u>Sanitary Sewer Manhole Infiltration Insert</u>	3/2011	1/1999		
02741	<u>Prime and Tack Coats</u>	1/1999			
02745	<u>Pavement Removal and Replacement</u>	8/1999			
02765	<u>Pavement Markings and Traffic Signs</u>	1/1999			
02822	<u>Chain Link Fences and Gates</u>	2/2009			
02900	<u>Landscaping</u>	5/2010	1/1999		
Division 3 - Concrete					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
03300	<u>Cast-in-place Concrete, Reinforcing and Formwork</u>	5/2009	3/2009		
03375	<u>Flowable Fill</u>	5/2011	1/1999		
03400	<u>Precast Prestressed Concrete</u>	1/1999			
03521	<u>Insulating Concrete Fill</u>	1/1999			
03600	<u>Grout</u>	1/1999			
Division 4 - Masonry					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
04060	<u>Mortar</u>	1/1999			
04082	<u>Joint Reinforcement</u>	1/1999			
04220	<u>Unit Masonry</u>	1/1999			
Division 5 - Metals					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
05120	<u>Miscellaneous and Structural Steel</u>	1/1999			
05140	<u>Structural Aluminum</u>	1/1999			
05520	<u>Aluminum Railings</u>	1/1999			
05540	<u>Access Hatches</u>	8/1999			
05550	<u>Castings</u>	8/1999			

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Division 6 - Wood and Plastics					
(Not Used)					
Division 7 - Thermal and Moisture Protection					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
07500	<u>Built-up Bituminous Roofing and Sheet Metal Over Lightweight Insulating Concrete Substrate or Structural Concrete Deck</u>	1/1999			
07920	<u>Sealants and Caulking</u>	1/1999			
Division 8 - Door and Windows					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
08110	<u>Steel Doors and Frames</u>	6/2005			
08710	<u>Finish Hardware</u>	1/1999			
08720	<u>Aluminum Louvers</u>	6/2005			
Division 9 - Finishes					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
9801	<u>Concrete Protecting Coatings</u>	1/1999			
9900	<u>Painting (Short)</u>	7/2012	8/1999		
Division 10 - Specialties					
(Not Used)					
Division 11 - Equipment					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
11205	<u>Submersible Wastewater Pumps</u>	6/2005			
11210	<u>Vertical (Dry-Pit) Centrifugal Sewage Pumps</u>	8/1999			
11215	<u>Sump Pump</u>	8/1999			
11500	<u>Fuel Storage Tanks</u>	8/2013	2/2009	6/2005	
Division 12 through 13					
(Not Used)					
Division 14 - Conveying System					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
14050	<u>Crane, Trolley and Hoist</u>	1/1999			
14060	<u>Hoist and Trolley</u>	1/1999			
Division 15 - Mechanical					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
15010	<u>Basic Mechanical Requirements</u>	1/1999			
15040	<u>Seal Water System</u>	8/1999			
15060	<u>Piping and Fittings</u>	7/2011	10/2009	12/2006	
15065	<u>Miscellaneous Materials</u>	8/2011	9/2009	1/1999	
15070	<u>Jacking and Boring</u>	1/1999			
15075	<u>Aerial Crossing</u>	8/1999			
15080	<u>Horizontal Directional Drilling</u>	1/1999			

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15100	<u>Valves, General</u>	1/1999			
15102	<u>Tapping Sleeves</u>	12/2006			
15105	<u>Ball Valves</u>	8/1999			
15110	<u>Butterfly Valves</u>	8/1999			
15115	<u>Check Valves</u>	1/1999			
15120	<u>Gate Valves</u>	12/2006			
15125	<u>Plug Valves</u>	8/2013	8/1999		
15130	<u>Miscellaneous Valves</u>	8/2013	8/2011	12/2006	
15330	<u>Fire Hydrants</u>	12/2006			
15821	<u>Dehumidifier</u>	1/1999			
15860	<u>Air Moving Equipment</u>	12/2009	2/209		
Division 16 - Electrical					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
16152	<u>Variable Frequency Drives</u>	12/2009	7/2009	1/2009	
16420	<u>Stationary Standby Engine/Generator Set</u>	6/2005			
16425	<u>Portable Engine-Generator Sets</u>	12/2006			
16780	<u>S. C. A. D. A. System R. T. U. Installation</u>	12/2006			

Part IV - MDWASD Standard Details						
General Details						
Detail Number	Description	Sheet Number	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
GS 0.5	<u>Standard Requirements for Water and Sewer Construction</u>	1 of 2	3/1/10	3/11/09	6/1/08	
GS 0.5	<u>As-Built Requirements</u>	2 of 2	3/11/09	6/1/08		
GS 1.0	<u>Typical Tie-Rod Details</u>	1 of 1	11/1/06			
GS 1.2	<u>Reinforced Concrete Slab (For Ground Cover less than 2.5')</u>	1 of 1	6/1/08			
GS 1.3	<u>Buttweld for Field Welding</u>	1 of 1	11/1/06			
GS 1.4	<u>Pipe Guard (12" Pipe and Larger)</u>	1 of 2	11/1/06			
GS 1.4	<u>Pipe Guard Bolt Detail</u>	2 of 2	11/1/06			
GS 1.5	<u>Water and Sewer Main Crossings</u>	1 of 1	10/6/08			
GS 1.6	<u>Access Manhole for Concrete Pipe (30" and Larger)</u>	1 of 1	11/1/06			
GS 1.7	<u>Typical Tapping Valve Setting (16" and Smaller)</u>	1 of 1	1/22/09			
GS 1.8	<u>Tapping Sleeve and Valve Installation</u>	1 of 1	1/22/09			
GS 1.9	<u>Typical Trench Backfill for D.I. Water and Force Mains</u>	1 of 1	11/1/06			
GS 2.0	<u>Standard Requirements for Water & Sewer Mechanical Thrust Restraint</u>	1 of 5	11/1/06			
GS 2.0	<u>Thrust Restraint Design Ductile Iron/PVC Pipe (Vertical Offset)</u>	2 of 5	11/1/06			
GS 2.0	<u>Thrust Restraint Design Ductile Iron/PVC Pipe (Tee and Tapping Sleeve)</u>	3 of 5	11/1/06			
GS 2.0	<u>Thrust Restraint Design Ductile Iron/PVC Pipe (Dead Ends)</u>	4 of 5	11/1/06			
GS 2.0	<u>Thrust Restraint Design Ductile Iron/PVC Pipe (Horizontal Bends)</u>	5 of 5	11/1/06			
GS 2.1	<u>Embankment Typical Section</u>	1 of 1	6/1/08			
GS 3.0	<u>Standard Symbols</u>	1 of 2	2/10/09			
GS 3.0	<u>Standard Symbols</u>	2 of 2	2/10/09			

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GS 4.0	<u>Sub-Aqueous Pipeline Sign Detail</u>	1 of 2	1/5/10			
GS 4.0	<u>Sub-Aqueous Pipeline Post Installation</u>	2 of 2	1/5/10			
Water Detail						
Detail Number	Description	Sheet Number	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
WS 1.0	<u>Typical Gate Valve Setting (Smaller than 16")</u>	1 of 1	10/10/08	6/1/08		
WS 1.60	<u>Air Release Valve</u>	1 of 1	10/6/09	6/20/08	6/1/08	
WS 1.61	<u>Typical Flushing Valve Outlet</u>	1 of 1	10/6/09	6/20/08		
Water Box and Vault Details						
Detail Number	Description	Sheet Number	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
WS 2.05	<u>Casting Standards</u>	1 of 1	11/1/06			
WS 2.10	<u>Single Meter Box Installation</u>	1 of 3	6/1/08			
WS 2.10	<u>Single Meter Box Detail</u>	2 of 3	6/1/08			
WS 2.10	<u>Single Meter Box for Multi-Story Building</u>	3 of 3	6/1/08			
WS 2.12	<u>Dual Meter Box</u>	1 of 2	11/1/06			
WS 2.12	<u>Dual Meter Box Installation for two 5/8" Meters</u>	2 of 2	10/29/10	6/20/08		
WS 2.16	<u>Typical 2" Service Installation with a 2" meter</u>	1 of 4	5/31/13	6/20/08	6/1/08	
WS 2.16	<u>Typical 2" Service Installation with a 1-1/2" meter</u>	2 of 4	5/31/2013	10/29/10	6/1/08	
WS 2.16	<u>Typical 1" Service Connections (Copper or HDPE)</u>	3 of 4	1/3/11	12/16/09	9/3/09	3/25/08
				6/1/08		
WS 2.16	<u>Typical 2" Service Connections (HDPE)</u>	4 of 4	12/16/09	9/3/09	3/25/08	6/1/08
				6/20/08		
WS 2.17	<u>Assembled 2' x 4' Vault (Precast Sections)</u>	1 of 5	11/1/06			
WS 2.17	<u>Assembled 2' x 4' Vault (Precast Sections)</u>	2 of 5	11/1/06			
WS 2.17	<u>Standard 2' x 4' Steel Cover Plate for Non-Traffic Vault</u>	3 of 5	11/1/06			
WS 2.17	<u>Details of 2' x 4' Steel Cover Plate for Non-Traffic Vault</u>	4 of 5	11/1/06			
WS 2.17	<u>2' x 4' Precast Meter Vault for Non-Traffic Areas</u>	5 of 5	11/1/06			
WS 2.19	<u>Standard Precast Meter Vault for Traffic Areas</u>	1 of 1	6/1/08	11/1/06		
WS 2.20	<u>4' x 4' Precast Sectional Meter Vaults for Non-Traffic Areas</u>	1 of 2	11/1/06			
WS 2.20	<u>4' x 4' Precast Meter Vault for Non-Traffic Areas</u>	2 of 2	11/1/06			
WS 2.21	<u>Easement Requirements for Service & Fire Hydrants</u>	1 of 3	10/5/09	6/20/08	6/1/08	
WS 2.21	<u>Easement Requirements for 8" Turbine Meter</u>	2 of 3	11/1/06			
WS 2.21	<u>Easement Requirements for 10" Turbine Meter</u>	3 of 3	11/1/06			
WS 2.30	<u>8-Inch Blow-Off Detail for a 20" D.I. Distribution Main</u>	1 of 1	6/20/08	11/1/06		
WS 2.40	<u>Typical Installations for Medical Facilities or Any Other Facilities Req. by WASD</u>	1 of 1	11/1/06			
Water Piping Details						
Detail Number	Description	Sheet Number	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
WS 3.10	<u>No. 2 C.I. Valve Box and Lid</u>	1 of 1	6/1/08			
WS 3.11	<u>No. 3 C.I. Valve Box</u>	1 of 2	6/1/08			

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WS 3.11	<u>No. 3 C.I. Lid</u>	2 of 2	6/1/08			
WS 3.12	<u>Typical M.J. Butterfly Valve (24" and Smaller)</u>	1 of 1	10/10/08	6/1/08		
WS 3.13	<u>Leak Detector/Sampling Port Assembly Detail</u>	1 of 1	6/1/08			
WS 3.14	<u>Manhole for Butterfly Valve (30" and Larger)</u>	1 of 3	11/1/06			
WS 3.14	<u>Manhole for Butterfly Valve (30" and Larger)</u>	2 of 3	11/1/06			
WS 3.14	<u>Manhole for Butterfly Valve (30" and Larger)</u>	3 of 3	11/1/06			
WS 3.15	<u>Steel Cover Assembly for No. 66-S Concrete Meter Box</u>	1 of 2	11/1/06			
WS 3.15	<u>Standard 34"x34" Steel Cover Plate for Non-traffic Areas Only</u>	2 of 2	11/1/06			
WS 4.10	<u>Typical Service Plan</u>	1 of 1	11/1/06			
WS 4.12	<u>Typical Connection to Existing Main</u>	1 of 2	6/20/08			
WS 4.12	<u>Typical Connection to Existing Main</u>	2 of 2	6/20/08			
WS 4.13	<u>Typical 2" Galvanized Steel Connection to Existing Main</u>	1 of 1	6/22/09	2/10/09		
WS 4.16	<u>Meter Bank – 2" Supply</u>	1 of 2	11/1/06			
WS 4.16	<u>Meter Bank – 4" Supply</u>	2 of 2	6/1/08			
WS 4.18	<u>Reduced Pressure Zone Backflow Preventer for Water Service 3/4" thru 2"</u>	1 of 5	6/26/12	11/1/06		
WS 4.18	<u>Reduced Pressure Zone Backflow Preventer for Water Service 2-1/2" thru 10"</u>	2 of 5	6/26/12	11/1/06		
WS 4.18	<u>Reduced Pressure Zone Backflow Preventer for Water Service - Notes</u>	3 of 5	8/29/12	11/1/06		
WS 4.18	<u>Approved Backflow Prevention Assemblies-Notes</u>	4 of 5	6/26/12	11/1/06		
WS 4.18	<u>Approved Backflow Prevention Assemblies for Vertical Installation - Notes</u>	5 of 5	7/6/12			
WS 4.19	<u>Pressure Vacuum Breaker, Irrigation System Only</u>	1 of 2	11/1/06			
WS 4.19	<u>Pressure Vacuum Breaker, Irrigation System - Notes</u>	2 of 2	11/1/06			
WS 4.20	<u>Typical Fire and Fire & Domestic Water Service Connections</u>	1 of 4	10/5/09	11/1/06		
WS 4.20	<u>Double Detector Check Valve Assembly for Fire Line Service</u>	2 of 4	9/30/09	11/1/06		
WS 4.20	<u>Double Detector Check Valve Assembly for Fire Line Service - Notes</u>	3 of 4	9/30/09	11/1/06		
WS 4.20	<u>Double Detector Check Valve in Parallel</u>	4 of 4	9/30/09	11/1/06		
WS 4.21	<u>Typical Pipe Layout for 4" Service</u>	1 of 2	10/5/09	6/20/08		
WS 4.21	<u>Dual 2" Meter Installation for Typical 2" Domestic Service Lines</u>	2 of 2	9/16/08			
WS 4.50	<u>Typical Fire Hydrant Installation with Guard Posts</u>	1 of 2	2/25/13	9/22/10	2/11/09	
WS 4.50	<u>Typical Fire Hydrant Installation in FDOT Right-of-Way</u>	2 of 2	2/25/13	2/11/09		
WS 4.60	<u>Water Main Crossing Drainage Ditch</u>	1 of 1	6/1/08			
Reclaimed Water Details						
Detail Number	Description	Sheet Number	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
RGN 1.0	<u>Reclaimed Water Mains, General Notes</u>	1 of 2	6/1/08			
RGN 1.0	<u>Reclaimed Water Mains, General Notes</u>	2 of 2	6/1/08			
R 1.0	<u>Sign Post Installation</u>	1 of 1	6/1/08			
R 2.0	<u>Typical Residential Utility Layout Single Service Connections</u>	1 of 1	6/1/08			
R 3.0	<u>Residential Service Connection</u>	1 of 1	6/1/08			
R 4.0	<u>Pipe Identification</u>	1 of 1	12/16/10	6/1/08		

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R 5.0	<u>Locating Devices for Non-Metallic Pipe</u>	1 of 1	6/1/08			
Sewer Details						
Detail Number	Description	Sheet Number	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
SS 1.0	<u>Gravity Sewer Service Lateral for "Shallow" Sewers</u>	1 of 2	8/26/10	6/1/08		
SS 1.0	<u>Gravity Sewer Service Laterals for "Deep" Sewers</u>	2 of 2	8/26/10	6/1/08		
SS 3.1	<u>Wye Branch Connection for Existing Shallow Main</u>	1 of 1	11/17/09	11/1/06		
SS 3.2	<u>Saddle Tee Fastened to Gravity Sewer Main Liner</u>	1 of 1	2/11/09			
SS 4.0	<u>Type "A" Manhole Cover and Frame</u>	1 of 2	6/1/08			
SS 4.0	<u>Type "A" Manhole Cover and Frame</u>	2 of 2	11/1/06			
SS 5.0	<u>Sewer Main or Lateral thru Drainage Ditch</u>	1 of 1	11/1/06			
SS 6.0	<u>Standard Manhole</u>	1 of 1	6/3/11	10/6/09	4/13/09	
SS 6.1	<u>Standard Manhole, Flow Channels</u>	1 of 1	4/13/09			
SS 6.2	<u>New Connection to Existing Manhole (Where no Stub-Out Exists)</u>	1 of 1	11/1/06			
SS 7.0	<u>Shallow Manhole</u>	1 of 1	10/6/09	4/13/09		
SS 8.0	<u>Detail Manhole Adjustment</u>	1 of 1	6/1/08			
SS 9.0	<u>Drop Connection - New Precast Manhole</u>	1 of 1	10/6/09	11/1/06		
SS 10.0	<u>Flow Patterns for Invert Channels</u>	1 of 1	11/1/06			
SS 11.0	<u>Air Release Valve Assembly - Sewage Force Mains</u>	1 of 2	6/29/11	10/16/09	12/4/08	
SS 11.0	<u>Automatic Air Release Valve Assembly</u>	2 of 2	6/29/11	10/16/09	12/4/08	
SS 13.0	<u>No. 53 C.I. Valve Box and Lid</u>	1 of 1	11/1/06			
SS 15.0	<u>Check Valve Manhole</u>	1 of 1	10/6/09	11/1/06		
SS 16.0	<u>6" Plug Valve and Check Valve Manhole</u>	1 of 1	11/1/06			
SS 17.0	<u>Force Main Connection Private Ownership</u>	1 of 1	11/1/06			
SS 18.0	<u>Typical Trench Construction for V.C. and D.I. Pipe Gravity Sewer</u>	1 of 3	11/1/06			
SS 18.0	<u>Typical Trench Construction - PVC Pipe Gravity Sewers in Stable Soils</u>	2 of 3	11/1/06			
SS 18.0	<u>Typical Trench Construction - PVC Pipe Gravity Sewers in Unstable Soils</u>	3 of 3	11/1/06			
SS 19.1	<u>Typical Plug Valve Installation</u>	1 of 1	3/24/09			
SS 21.0	<u>Manhole/Valve Box in Grass Areas</u>	1 of 1	6/1/08			
SS 22.0	<u>Sanitary Sewer Clean-Out Detail</u>	1 of 2	1/14/10			
SS 22.0	<u>Sanitary Sewer Clean-Out Concrete Box Detail</u>	2 of 2	1/14/10			
Accessory Details						
Detail Number	Description	Sheet Number	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
A 1.0	<u>Pavement Restoration - Type I</u>	1 of 1	10/7/10	6/1/08		
A 1.1	<u>Pavement Restoration - Type V</u>	1 of 1	8/2/13	1/10/11	11/1/06	
A 1.2	<u>Pavement Restoration - Type II (State Road)</u>	1 of 1	8/2/13	1/18/12	11/1/06	
A 2.0	<u>Pavement Restoration - Type III</u>	1 of 1	11/1/06			
A 3.0	<u>Pavement Restoration - Type IV</u>	1 of 1	11/1/06			
A 4.0	<u>Pavement Restoration - Type M</u>	1 of 1	11/1/06			
A 8.0	<u>Support for Carrier Pipe inside Casing</u>	1 of 2	11/21/11	10/7/10	11/1/09	

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A 9.0	Polyethylene Encasement for Ductile Iron Pipe	1 of 1	10/29/10	11/1/06		
A 10.0	Abbreviations for Department's Projects	1 of 3	6/1/08			
A 10.0	Abbreviations for Department's Projects	2 of 3	6/1/08			
A 10.0	Abbreviations for Department's Projects	3 of 3	6/1/08			

Part V - Appendices						
Appendix A - Pump Station Design Package			Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)		
Pump Station Design Package (PSDP-4/96) (3 Pages)			4/1996			
Pump Station Technical Plans Review and Approval Transfer Form (PSPR-4/96) (1 Page)			4/1996			
Appendix B - Supplemental Design Guidelines for Lift Stations and Force Mains (66 pages)			Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)		
(Developed through WASD Pump Station Improvement Program, May 1994. Revised Jan. 1999)			1/1999			
Appendix C - Sewer Pump Station Guidelines (3 Pages)			Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)		
(Developed by WASD Engineering Division Staff, Revised Jan. 1999)			1/1999			
Appendix D - Basic Guide to Corrosion Protection (24 Pages)			Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)		
(Developed by WASD Engineering Division Staff, May 1996)			5/1996			

Appendix E - Standard Pump Station Drawings						
Submersible Pump Station With Stand By Generator						
Sheet No.	Title	PDF	DWG	Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)	
C-1	Cover Sheet			11/1/06		
C-2	Site Plan, Legend and Notes			11/1/06		
S-1	Structural General Notes			5/11/11	3/6/09	
S-2	Wet Well and Vault Valve Structural Plan, Sections and Details			11/1/06		
M-1	Mechanical Plan, Sections, Details and Pump Data			11/1/06		
E-1	Electrical General Notes			11/1/06		
E-2	Electrical Site Plan			11/1/06		
E-3A	Power/Control (MPE) and Wiring Schedule			11/1/06		
E-3B	MultiSmart Control and Scada Terminals			11/1/06		
E-4	Electrical Control Panel					
E-5	R.T.U. Installation Wiring Diagrams			11/1/06		
Submersible Pump Station Without Stand By Generator						
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C-1	<u>Cover Sheet</u>			11/1/06		
C-2	<u>Site Plan, Legend and Notes</u>			11/1/06		
S-1	<u>Structural General Notes</u>			5/11/11	3/6/09	
S-2	<u>Wet Well and Vault Valve Structural Plan, Sections and Details</u>			11/1/06		
M-1	<u>Mechanical Plan, Sections, Details and Pump Data</u>			11/1/06		
E-1	<u>Electrical General Notes</u>			11/1/06		
E-2	<u>Electrical Site Plan</u>			11/1/06		
E-3A	<u>Power/Control (MPE) and Wiring Schedule</u>			11/1/06		
E-3B	<u>Power/Control (MultiSmart) and Wiring Schedule</u>			11/1/06		
E-4	<u>Electrical Control Panel and Details</u>					
E-5	<u>R.T.U. Installation Wiring Diagrams</u>			11/1/06		
DryWell/Wet Well Pump Station						
Sheet No.	Title	PDF	DWG	Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)	
C-1	<u>Cover Sheet</u>			11/1/06		
C-2	<u>Site Plan, Legend and Notes</u>			11/1/06		
A-1	<u>Emergency Generator Building, Floor Plan, Sections and Details</u>					
S-1	<u>Structural General Notes</u>			5/11/11	3/6/09	
S-2	<u>10' x 10' Dry Well w/8' Wet Well Structural Plan, Section and Details</u>			11/1/06		
S-3	<u>Ladder Details</u>			11/1/06		
S-4	<u>Grating Platform</u>			11/1/06		
S-5	<u>Emergency Generator Building Foundation Plan, Floor Plan and Sections</u>			11/1/06		
M-1	<u>10' x 10' Dry Well w/8' Wet Well Mechanical Plan, Sections and Pump Data</u>			11/1/06		
M-2	<u>Mechanical Details</u>			11/1/06		
M-3	<u>Fuel Tank</u>			11/1/06		
E-1	<u>Electrical General Notes</u>			11/1/06		
E-2	<u>Electrical Site Plan</u>			11/1/06		
E-3A	<u>Power/Control (MPE) and Wiring Schedule</u>			11/1/06		
E-3B	<u>Power/Control (MultiSmart) and Wiring Schedule</u>			11/1/06		
E-4	<u>Electrical Control Panel and Details</u>					
E-5	<u>R.T.U. Installation Wiring Diagrams</u>			11/1/06		
E-6	<u>Emergency Generator Building Electrical Floor Plan and Legend</u>			11/1/06		
Appendix F - Turbine Guidelines						
Sheet No.	Title	PDF	DWG	Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)	
M-1	<u>10' x 10' Dry Well w/8' Wet Well Mechanical Plan, Sections and Pump Data</u>			11/1/06		