

# REVISION HISTORY

Standards and Standard Details Revised, Added or Removed since last revision date of 4-2010	
Revised	
UC-005	Project Approval Revision Date 5-2010
02900	Landscaping Revision Date 5-2010
SS 1.0	Gravity Sewer Service Lateral for "Shallow" Sewers 1 of 2
SS 1.0	Gravity Sewer Service Lateral for "Deep" Sewers 2 of 2

Added	
SS 22.0	Sanitary Sewer Clean-Out Detail 1 of 2
SS 22.0	Sanitary Sewer Clean-Out Concrete Box Detail 2 of 2

Removed	
WS 4.11	Typical 1" Service Connection (Copper) 1 of 1
SS 2.0	Typical Modified Riser Connection Where Top of Sewer is 7 Feet or Deeper 1 of 1

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>	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>	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>	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>	5/2009		
UC-290	<u>Removal of Sanitary Sewerage and Debris</u>	1/1999		
UC-300	<u>Gravity Sewer Pipe Foundation</u>	1/1999		
UC-310	<u>Gravity Sewer Service Laterals</u>	8/1999		
UC-320	<u>Sewerage Bypass Pumping and Flow Control</u>	6/2005		

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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>	8/1999			
<b>Donation Pumping Stations</b>					
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>	2/2007			
UC-610	<u>Pump Station Control Panel</u>	2/2007			
UC-615	<u>Bubbler Leveler Controller</u>	6/2005			
UC-630	<u>Pump Station Testing</u>	6/2005			
<b>Donation Force Mains</b>					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
UC-750	<u>Donation Force Mains</u>	6/2005			
<b>Reclaimed Water Systems</b>					
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			

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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			
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 &amp; Covers</u>	5/2009	2/2009		
02615	<u>Concrete Protective Liner System for Precast Structures</u>	8/1999			
02620	<u>Manhole Frame Sealing System</u>	8/1999			
02625	<u>Sanitary Sewer Manhole Infiltration Insert</u>	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)		

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03300	<u>Cast-in-place Concrete, Reinforcing and Formwork</u>	5/2009	3/2009		
03375	<u>Flowable Fill</u>	1/1999			
03400	<u>Precast Prestressed Concrete</u>	1/1999			
03521	<u>Insulating Concrete Fill</u>	1/1999			
03600	<u>Grout</u>	1/1999			
<b>Divison 4 - Masonry</b>					
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			
<b>Divison 5 - Metals</b>					
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			
<b>Divison 6 - Wood and Plastics</b>					
(Not Used)					
<b>Divison 7 - Thermal and Moisture Protection</b>					
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			
<b>Divison 8 - Door and Windows</b>					
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			
<b>Divison 9 - Finishes</b>					
Section Number	Section Title	Current Issue Date on Document	Prior Revision Dates for Reference (Since 2007)		
9801	<u>Concrete Protecting Coatings</u>	1/1999			

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9900	<u>Painting (Short)</u>	8/1999			
<b>Divison 10 - Specialties</b>					
(Not Used)					
<b>Divison 11 - Equipment</b>					
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>	2/2009	6/2005		
<b>Divison 12 through 13</b>					
(Not Used)					
<b>Divison 14 - Conveying System</b>					
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			
<b>Divison 15 - Mechanical</b>					
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>	10/2009	12/2006		
15065	<u>Miscellaneous Materials</u>	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			
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>	8/1999			
15130	<u>Miscellaneous Valves</u>	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		
<b>Divison 16 - Electrical</b>					
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	

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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 &amp; 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			
<b>Water Detail</b>						
<b>Detail Number</b>	<b>Description</b>	<b>Sheet Number</b>	<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (Since 2007)</b>		
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		
<b>Water Box and Vault Details</b>						
<b>Detail Number</b>	<b>Description</b>	<b>Sheet Number</b>	<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (Since 2007)</b>		
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	6/20/08			
WS 2.16	<u>Typical 2" Service Installation with a 2" meter</u>	1 of 4	6/20/08	6/1/08		
WS 2.16	<u>Typical 2" Service Installation with a 1-1/2" meter</u>	2 of 4	6/1/08			
WS 2.16	<u>Typical 1" Service Connections (Copper or HDPE)</u>	3 of 4	12/16/09	9/3/09	3/25/08	6/1/08
				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			

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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 &amp; 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			
<b>Water Piping Details</b>						
<b>Detail Number</b>	<b>Description</b>	<b>Sheet Number</b>	<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (Since 2007)</b>		
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			
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			

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WS 4.18	<u>Reduced Pressure Zone Backflow Preventer for Water Service 3/4" thru 2"</u>	1 of 4	11/1/06			
WS 4.18	<u>Reduced Pressure Zone Backflow Preventer for Water Service 2-1/2" thru 4"</u>	2 of 4	11/1/06			
WS 4.18	<u>Reduced Pressure Zone Backflow Preventer for Water Service - Notes</u>	3 of 4	11/1/06			
WS 4.18	<u>Approved Backflow Prevention Assemblies-Notes</u>	4 of 4	11/1/06			
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 &amp; 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	2/11/09			
WS 4.50	<u>Typical Fire Hydrant Installation in FDOT Right-of-Way</u>	2 of 2	2/11/09			
WS 4.60	<u>Water Main Crossing Drainage Ditch</u>	1 of 1	6/1/08			
<b>Reclaimed Water Details</b>						
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	6/1/08			
R 5.0	<u>Locating Devices for Non-Metallic Pipe</u>	1 of 1	6/1/08			
<b>Sewer Details</b>						
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		

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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	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	4/13/09			
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	10/16/09	12/4/08		
SS 11.0	<u>Automatic Air Release Valve Assembly</u>	2 of 2	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			

























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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			
<b>Accessory Details</b>						
<b>Detail Number</b>	<b>Description</b>	<b>Sheet Number</b>	<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (Since 2007)</b>		
A 1.0	<u>Pavement Restoration - Type I</u>	1 of 1	6/1/08			
A 1.1	<u>Pavement Restoration - Type V</u>	1 of 1	11/1/06			
A 1.2	<u>Pavement Restoration - Type II (State Road)</u>	1 of 1	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	11/1/06			
A 8.0	<u>Wood Block Details for Casing Pipe</u>	2 of 2	11/1/06			
A 9.0	<u>Polyethylene Encasement for Ductile Iron Pipe</u>	1 of 1	11/1/06			
A 10.0	<u>Abbreviations for Department's Projects</u>	1 of 3	6/1/08			
A 10.0	<u>Abbreviations for Department's Projects</u>	2 of 3	6/1/08			
A 10.0	<u>Abbreviations for Department's Projects</u>	3 of 3	6/1/08			

<b>Part V - Appendices</b>						
<b>Appendix A - Pump Station Design Package</b>			<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (since 2007)</b>		
<u>Pump Station Design Package (PSDP-4/96) (3 Pages)</u>			4/1996			
<u>Pump Station Technical Plans Review and Approval Transfer Form (PSPR-4/96) (1 Page)</u>			4/1996			
<b>Appendix B - Supplemental Design Guidelines for Lift Stations and Force Mains (66 pages)</b>			<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (since 2007)</b>		
<u>(Developed through WASD Pump Station Improvement Program, May 1994. Revised Jan. 1999)</u>			1/1999			

## REVISION HISTORY

<b>Appendix C - Sewer Pump Station Guidelines (3 Pages)</b>	<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (since 2007)</b>		
(Developed by WASD Engineering Division Staff, Revised Jan. 1999)	1/1999			
<b>Appendix D - Basic Guide to Corrosion Protection (24 Pages)</b>	<b>Current Issue Date on Document</b>	<b>Prior Revision Dates for Reference (since 2007)</b>		
(Developed by WASD Engineering Division Staff, May 1996)	5/1996			

Appendix E - Standard Pump Station Drawings						
Sheet No.	Title	PDF	DWG	Drawing No.	Current Issue Date on	Prior Revision Dates for Reference (since 2007)
C-1	<u>Cover Sheet</u>			S-00000-A	11/1/06	
C-2	<u>Site Plan, Legend and Notes</u>			S-00000-A	11/1/06	
A-1	<u>Emergency Generator Building, Floor Plan, Sections and Details</u>			S-00000-A	3/6/09	
S-1	<u>Structural Plan, Sections and Details</u>			S-00000-A	3/6/09	
S-2	<u>Emergency Generator Building Foundation Plan, Floor Plan and</u>			S-00000-A	11/1/06	
S-3	<u>Structural General Notes</u>			S-00000-A	11/1/06	
M-1	<u>Mechanical Plan, Sections, Details and Pump Data</u>			S-00000-A	11/1/06	
E-1	<u>Electrical Site Plan, Power/Control and Wiring Schedule</u>			S-00000-A	11/1/06	
E-2	<u>Electrical Control Panel and Details</u>			S-00000-A	11/1/06	
E-3	<u>Emergency Generator Building Electrical Floor Plan and Legend</u>			S-00000-A	11/1/06	
E-4	<u>R. T. U. Installation Wiring Diagrams</u>			S-00000-A	11/1/06	
E-5	<u>Electrical General Notes</u>			S-00000-A	11/1/06	

Appendix F - Turbine Meter Guidelines						
Sheet No.	Title	PDF	DWG	Drawing No.	Current Issue Date on Document	Prior Revision Dates for Reference (since 2007)
WM-1	<u>Design Guidelines for Turbine Meters 4" to 10" with By-Pass</u>			W-00000-A	5/30/08	