

SECTION 7 – STANDARD DRAWINGS

<u>DETAIL</u>	<u>TITLE</u>
D - 50-1	STANDARD SYMBOLS FOR UTILITY DRAWINGS – SHEET 1 OF 2
D - 50-2	STANDARD SYMBOLS FOR UTILITY DRAWINGS – SHEET 2 OF 2
D - 100	PRECAST CONCRETE MANHOLE FOR SEWERS 8” to 24”
D - 110	60”, 72”, 84” AND 96” I.D. MANHOLE – 1
D - 115	60”, 72”, 84” AND 96” I.D. MANHOLE – 2
D - 120	60”, 72”, 84” AND 96” I.D. MANHOLE – 3
D - 125	MONITORING MANHOLE
D - 130	DROP CONNECTION
D - 135	MANHOLE INVERT DETAILS
D - 140	MANHOLE INVERT DESIGN
D - 145	STANDARD MANHOLE STEP
D - 150	STANDARD MANHOLE FRAME & COVER
D - 155	VANDALPROOF/WATERTIGHT MANHOLE FRAME & COVER (TRAFFIC RATED)
D - 160	VANDALPROOF/WATERTIGHT MANHOLE FRAME & COVER (NOT TRAFFIC RATED)
D - 165	ADJUST EXISTING MANHOLE FRAME & COVER
D - 170	ABANDONMENT OF MANHOLES
D - 175	ABANDONMENT OF LARGE MANHOLES
D - 180	HOUSE CONNECTION DETAILS
D - 185	SITE INSPECTION PORT DETAILS
D - 190	CONDOMINIUM DUAL SEWER CONNECTION DETAIL
D - 205	CONCRETE ENCASMENT OF SANITARY SEWER PIPES

<u>DETAIL</u>	<u>TITLE</u>
D - 210 - 1	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 1 OF 5
D - 210 - 2	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 2 OF 5
D - 210 - 3	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 3 OF 5
D - 210 - 4	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 4 OF 5
D - 210 - 5	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 5 OF 5
D - 400	BACKFLOW PREVENTER WITH DOMESTIC METER – RPZ OUTSIDE
D - 405	BACKFLOW PREVENTER WITH DOMESTIC METER – RPZ IN BUILDING
D - 410	BACKFLOW PREVENTER – IRRIGATION SYSTEM W/IRRIGATION METER
D - 415	BACKFLOW PREVENTER – IRRIGATION SYSTEM W/ EXCLUSION METER
D - 420	BACKFLOW PREVENTER – LOW HAZARD FIRE SYSTEM - DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT
D - 425	BACKFLOW PREVENTER – DBL CHECK DETECTOR ASSY IN BUILDING
D - 430	TYPICAL OUTSIDE INSTALLATION - REDUCED PRESSURE DETECTOR ASSY.
D - 435	TYPICAL IN-BUILDING INSTALLATION OF REDUCED PRESSURE DETECTOR ASSY.
D - 460	ISOLATION DEVICE FOR NEW MAIN – DOUBLE CHECK VALVE ASSY.
D - 465	CHLORINE NEUTRALIZATION STATION
D - 470	TAPPING SLEEVE AND VALVE ASSEMBLY
D - 475	VALVE BOX – SCREW TYPE ADJUSTABLE
D - 476	SYSTEM BOUNDARY VALVE
D - 480	WATERLINE VALVES AT TEE AND CROSS BRANCHES
D - 485	TYPICAL WATER LINE VERTICAL REALIGNMENT
D - 490	AIR RELEASE DETAIL 1 1/2”

<u>DETAIL</u>	<u>TITLE</u>
D - 495 - 1	TYPICAL FIRE HYDRANT DETAIL – SHEET 1 OF 2
D - 495 - 2	CITY OF RICHMOND FIRE HYDRANT NOZZLE THREADS – SHEET 2 OF 2
D - 500	FLUSHING HYDRANT
D - 505 - 1	TYPICAL FLUSHING HYDRANT ON CUL-DE-SAC – SHEET 1 OF 1
D - 505 - 2	TYPICAL FLUSHING HYDRANT ON THROUGH STREET – SHEET 2 OF 2
D - 510	TYPICAL RESIDENTIAL WATER METER LOCATIONS
D - 515	PLASTIC METER BOX FOR 5/8” METERS AND FLUSHING HYDRANTS
D - 520 - 1	WATER SERVICE INSTALLATION DETAIL FOR 5/8” AND 1” METERS – SHEET 1 OF 3
D - 520 - 2	WATER SERVICE INSTALLATION DETAIL FOR 5/8” AND 1” METERS – SHEET 2 OF 3
D - 520 - 3	WATER SERVICE INSTALLATION DETAIL FOR 5/8” AND 1” METERS – SHEET 3 OF 3
D - 525	STANDARD METER BOX FOR 5/8” AND 1” METERS
D - 530	WATER SERVICE INSTALLATION DETAIL FOR 1-1/2” AND 2” METERS
D - 534	1-1/2” AND 2” METER SETTING WITH CORPORATION STOP
D - 535 - 1	1 1/2” AND 2” METER SETTING – SHEET 1 OF 2
D - 535 - 2	1 1/2” AND 2” METER SETTING – SHEET 2 OF 2
D - 540	DUAL 1-1/2” AND 2” METER SETTING
D - 550	TRIPLE 2” METER SETTING
D - 555	METER VAULT FOR 4”, 6” AND 8” METER/DOUBLE GATE DOUBLE CHECK DETECTOR ASSEMBLY
D - 560 - 1	4”, 6” AND 8” METER SETTING – SHEET 1 OF 2
D - 560 - 2	DETAILS AND MATERIALS FOR D-560 SETTING – SHEET 2 OF 2
D - 700	THRUST BLOCKING DETAILS
D - 705	TYPICAL PIPE PEDESTAL

<u>DETAIL</u>	<u>TITLE</u>
D - 710 - 1	PVC PIPE TRENCH BEDDING - SHEET 1 OF 2
D - 710 - 2	PVC PIPE TRENCH BEDDING - SHEET 2 OF 2
D - 720	CONCRETE PIPE TRENCH BEDDING
D - 730	DUCTILE IRON PIPE TRENCH BEDDING
D - 740	ELECTRONIC MARKER PLACEMENT DETAIL FOR WATER MAINS AND SEWER FORCE MAINS
D - 750	ELECTRONIC MARKER PLACEMENT DETAIL FOR GRAVITY SEWER