

## SECTION 7 – STANDARD DRAWINGS

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

<b>DETAIL</b>	<b>TITLE</b>
<b>D - 205</b>	CONCRETE ENCASEMENT OF SANITARY SEWER PIPES
<b>D - 210 - 1</b>	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 1 OF 5
<b>D - 210 - 2</b>	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 2 OF 5
<b>D - 210 - 3</b>	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 3 OF 5
<b>D - 210 - 4</b>	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 4 OF 5
<b>D - 210 - 5</b>	SPECIAL ACID-RESISTANT LINING – ALL MANHOLES – SHEET 5 OF 5
<b>D - 400</b>	BACKFLOW PREVENTER – RPZ OUTSIDE
<b>D - 405</b>	BACKFLOW PREVENTER – RPZ IN BUILDING
<b>D - 410</b>	BACKFLOW PREVENTER – IRRIGATION SYSTEM
<b>D - 415</b>	BACKFLOW PREVENTER – IRRIGATION SYSTEM W/ EXCLUSION METER
<b>D - 420</b>	BACKFLOW PREVENTER – FIRE SYSTEM DGDC IN VAULT
<b>D - 425</b>	BACKFLOW PREVENTER – FIRE SYSTEM DGDC IN BUILDING
<b>D - 430</b>	BACKFLOW PREVENTER – FIRE SYSTEM RPZ OUTSIDE
<b>D - 435</b>	BACKFLOW PREVENTER – FIRE SYSTEM RPZ IN BUILDING
<b>D - 460</b>	ISOLATION DEVICE FOR NEW MAIN – DOUBLE CHECK VALVE
<b>D - 465</b>	CHLORINE NEUTRALIZATION STATION
<b>D - 470</b>	TAPPING SLEEVE AND VALVE
<b>D - 475</b>	VALVE BOX
<b>D - 480</b>	WATERLINE VALVES AT TEE AND CROSS BRANCHES
<b>D - 485</b>	TYPICAL WATER LINE VERTICAL REALIGNMENT
<b>D - 490</b>	AIR RELEASE DETAIL 1 1/2”
<b>D - 495 - 1</b>	TYPICAL FIRE HYDRANT DETAIL – SHEET 1 OF 2
<b>D - 495 - 2</b>	CITY OF RICHMOND FIRE HYDRANT NOZZLE THREADS – SHEET 2 OF 2

<b><u>DETAIL</u></b>	<b><u>TITLE</u></b>
<b>D - 500</b>	FLUSHING HYDRANT
<b>D - 505 - 1</b>	TYPICAL FLUSHING HYDRANT ON CUL-DE-SAC – SHEET 1 OF 1
<b>D - 505 - 2</b>	TYPICAL FLUSHING HYDRANT ON THROUGH STREET – SHEET 2 OF 2
<b>D - 510</b>	TYPICAL RESIDENTIAL WATER METER LOCATIONS
<b>D - 515</b>	PLASTIC METER BOX FOR 5/8” METERS AND FLUSHING HYDRANTS
<b>D - 520 - 1</b>	WATER SERVICE INSTALLATION DETAIL FOR 5/8” AND 1” METERS – SHEET 1 OF 3
<b>D - 520 - 2</b>	WATER SERVICE INSTALLATION DETAIL FOR 5/8” AND 1” METERS – SHEET 2 OF 3
<b>D - 520 - 3</b>	WATER SERVICE INSTALLATION DETAIL FOR 5/8” AND 1” METERS – SHEET 3 OF 3
<b>D - 525</b>	STANDARD METER BOX FOR 5/8” AND 1” METERS
<b>D - 530</b>	WATER SERVICE INSTALLATION DETAIL FOR 1-1/2” AND 2” METERS
<b>D - 535 - 1</b>	1 1/2” AND 2” METER SETTING – SHEET 1 OF 2
<b>D - 535 - 2</b>	1 1/2” AND 2” METER SETTING – SHEET 2 OF 2
<b>D - 540</b>	DUAL 1-1/2” AND 2” METER SETTING
<b>D - 550</b>	TRIPLE 2” METER SETTING
<b>D - 555</b>	METER VAULT FOR 4”, 6” AND 8” METERS
<b>D - 560 - 1</b>	4”, 6” AND 8” METER SETTING – SHEET 1 OF 2
<b>D - 560 - 2</b>	DETAILS AND MATERIALS FOR D-224 SETTING – SHEET 2 OF 2

<b>DETAIL</b>	<b>TITLE</b>
<b>D - 570</b>	1 ½" OR 2" METER – 6" OR 8" DETECTOR SETTING
<b>D - 580 - 1</b>	4", 6" AND 8" DETECTOR SETTING – SHEET 1 OF 2
<b>D - 580 - 2</b>	DETAILS AND MATERIALS FOR D-239 SETTING – SHEET 2 OF 2
<b>D - 700</b>	THRUST BLOCKING DETAILS
<b>D - 705</b>	TYPICAL PIPE PEDESTAL
<b>D - 710 - 1</b>	PVC PIPE TRENCH BEDDING - SHEET 1 OF 2
<b>D - 710 - 2</b>	PVC PIPE TRENCH BEDDING - SHEET 2 OF 2
<b>D - 720</b>	CONCRETE PIPE TRENCH BEDDING
<b>D - 730</b>	DUCTILE IRON PIPE TRENCH BEDDING
<b>D - 740</b>	ELECTRONIC MARKER PLACEMENT DETAIL FOR WATER MAINS AND SEWER FORCE MAINS
<b>D - 750</b>	ELECTRONIC MARKER PLACEMENT DETAIL FOR GRAVITY SEWER