

ITEM LIST

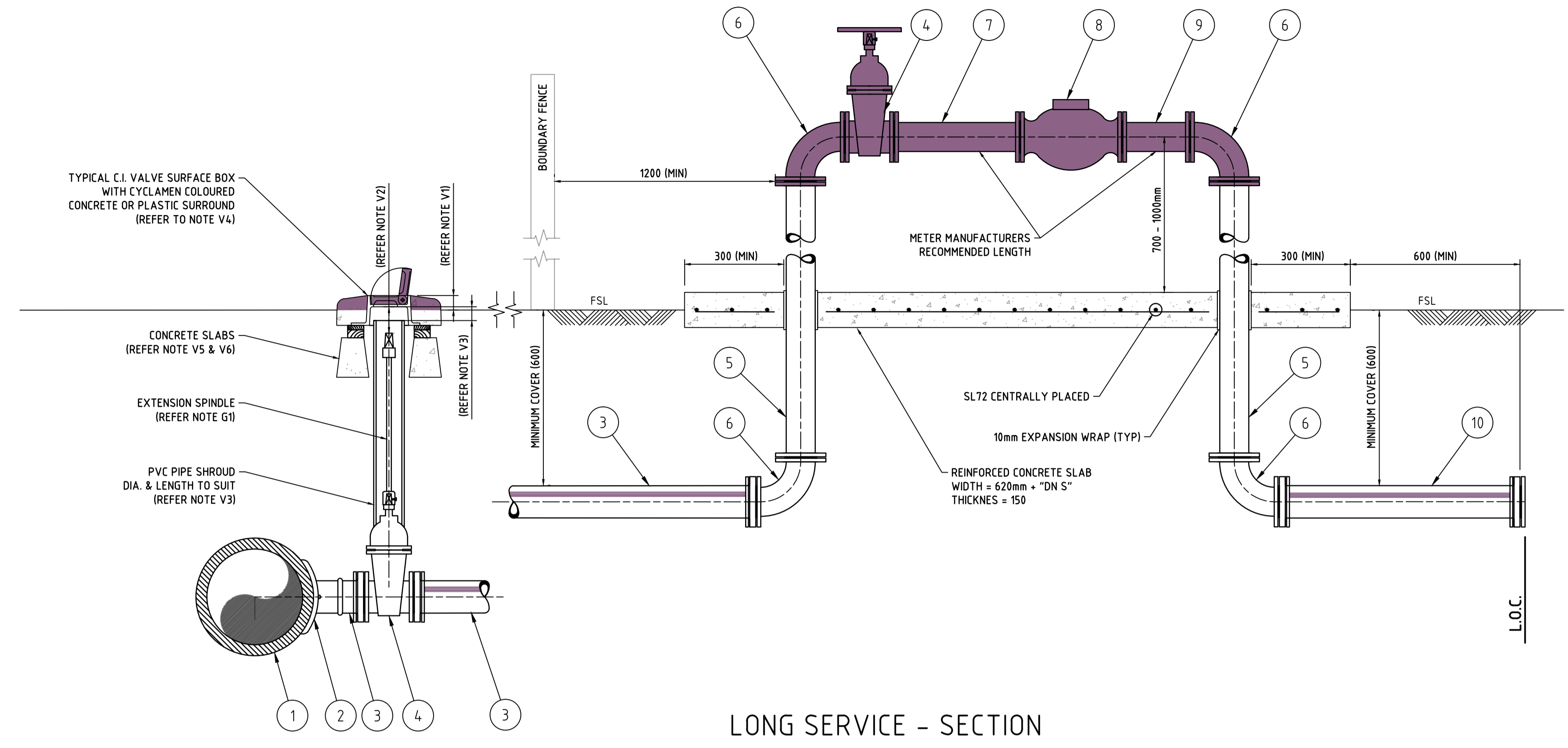
ITEM	SIZE	DESCRIPTION
1	"DN P"	PE100 PN16 REMS FEEDER MAIN
2	"DN P" x "DN S"	PE100 PN16 TEE OR APPROVED WELDED SADDLE
3	"DN S"	PE100 PN16 BW PIPE (L.T.S.) WITH BW FLANGE STUB
4	"DN S"	FL-FL RESILIENTLY SEATED D.I. GATE VALVE (CLOCKWISE CLOSE)
5	"DN S"	FL-FL DICL PIPE (L.T.S.)
6	"DN S"	FL-FL DICL 90° BEND
7	"DN S"	FL-FL DICL PIPE (L.T.S.) (METER MANUFACTURERS SPECIFICATIONS)
8	"DN S"	FL-FL FLOW METER (SPECIFIED)
9	"DN S"	FL-FL DICL PIPE (L.T.S.) (METER MANUFACTURERS SPECIFICATIONS)
10	"DN S"	PE100 PN16 (L.T.S.) FL-FL WITH SS BACKING & BLANK FLANGE

TABLE 1 - SERVICE LINE EQUIVALENCES

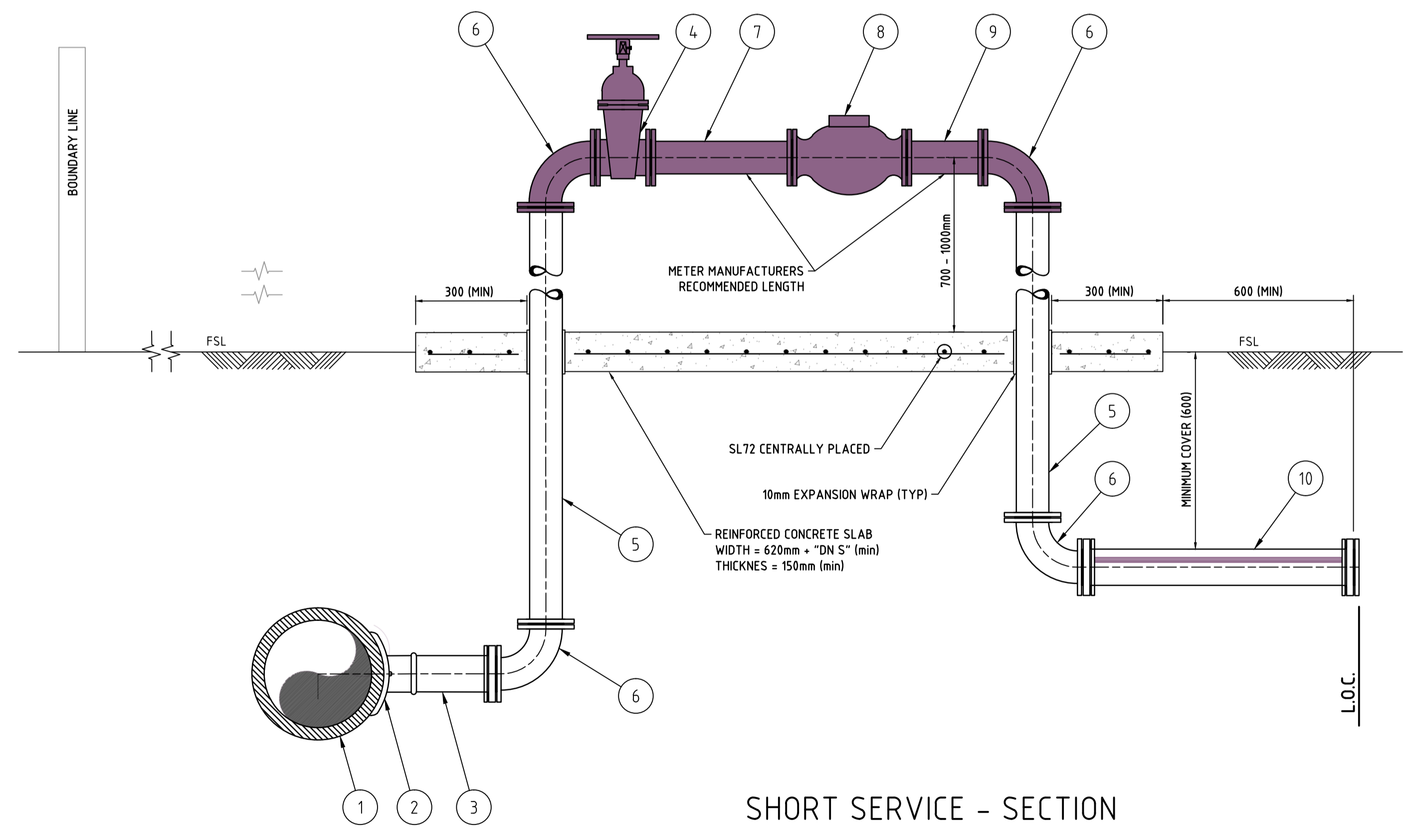
METER SIZE DN	COPPER DN	DUCTILE DN	PVC DN	PE100 DN
80	80	80		90
100		100	100	125
150		150	150	180
200		200	200	250

ABBREVIATIONS:

- L.O.C. = LIMIT OF CONTRACT
- L.T.S. = LENGTH TO SUIT
- DN = NOMINAL DIAMETER
- DN P = NOMINAL DIAMETER OF THE REMS FEEDER MAIN
- DN S = NOMINAL DIAMETER OF THE SERVICE LINE AND METER
- FL = FLANGED FITTING
- BW = BUTT WELD
- FSL = FINISHED SURFACE LEVEL
- TYP = TYPICAL
- MIN = MINIMUM



LONG SERVICE - SECTION



SHORT SERVICE - SECTION

VALVE SURFACE BOX NOTES:

- V1 TOP OF VALVE SURFACE BOX IS TO BE :
 - FLUSH WHERE LOCATED IN PAVED AREAS.
 - 50mm MIN ABOVE FSL WITHIN ROAD RESERVES IN RESIDENTIAL AREAS
 - 200mm MIN ABOVE FSL IN RURAL LOCATIONS
- V2 VALVE SURFACE BOX, COVER, SHROUD AND FOOTING TO BE INSTALLED BETWEEN 100 AND 200mm ABOVE THE SPINDLE AND PVC PIPE SHROUD SO THAT NO LOADING IS TRANSMITTED TO THE MAIN.
- V3 PVC PIPE SHROUD (LENGTH AND DIAMETER TO SUIT) TO EXTEND TO WITHIN VALVE SURFACE BOX, BUT NOT LESS THAN 50mm FROM THE UNDER SIDE OF THE LID
- V4 VALVE SURFACE BOX TO HAVE :
 - HINGED COVER TO CLOSE IN THE DIRECTION OF FALL OF LAND OR DIRECTION OF ADJACENT ROAD LANE TRAFFIC
 - A TYPICAL RECYCLED PLASTIC SURROUND OR EQUIVALENT CONCRETE SURROUND (435mm DIAMETER MIN)
- V5 FOOTINGS OR SLAB REQUIRED IN :
 - TRAFFICABLE AREA - CONCRETE SUPPORT SLABS TO SPAN THE TRENCH TO EXTEND 300 MIN ONTO SUPPORTIVE EARTH. (WSAA 2002 WAT-1304)
 - NON-TRAFFICABLE AREA - CONCRETE FOOTINGS REQUIRED TO BED THE VALVE BOX AND SHROUD. (WSAA 2002 WAT-1303)
- V6 RECYCLED PLASTIC, CONCRETE OR HARDWOOD SPACERS MAY BE USED TO RAISE FRAME SURFACE LEVEL

GENERAL NOTES:

- G1 EXTENSION SPINDLE TO BE FITTED TO GATE VALVE WHERE DEPTH FROM F.S.L. TO TOP OF GATE VALVE EXCEEDS 350mm
- G2 316 SS BACKING PLATES TO BE USED ON ALL POLY FLANGES
- G3 ALL ABOVE GROUND METERS, SURFACE BOXES, VALVES, FITTINGS, ETC ARE TO BE THE STANDARD CYCLAMEN COLOUR (P 22 TO AS 2700)
- G4 ALL PE100 PIPE TO BE CYCLAMEN STRIPED.
- G5 ALL PIPE AND FITTINGS TO BE PN16 (SDR11) MINIMUM
- G6 BOLLARD PROTECTION IS TO BE INSTALLED, REFER TO TYPICAL BOLLARD PROTECTION ARRANGEMENT (DRG 24066-004)

CONSTRUCTION ISSUE

REVISION DETAILS				CONSULTANT DETAILS:		DESIGNED:			DATE:			COMPANY:			TITLE:		
No.	1	ISSUED FOR CONSTRUCTION	R.D.	13-10-16			R.D.	1-6-15			S.W.	RECLAIMED WATER MANAGEMENT SCHEME					
	0	ISSUED FOR TENDER	R.D.	24-06-16			R.D.	1-6-15			S.W.	REMS 1B					
							N.P.	20-06-16			S.W.	SERVICES 80mm AND GREATER					
							R.H.	24-06-16			S.W.	TYPICAL LONG AND SHORT SERVICE WITH TYPICAL METER ARRANGEMENT					
				CONSULTANT REFERENCE No.		APPROVED:			DATE:			COMPANY:			TITLE:		
						R.H.			24-06-16			S.W.			RECLAIMED WATER MANAGEMENT SCHEME		
						SIZE:			SCALE:			INDEX No.			DRAWING No.		
						A1			N.T.S.			10			24066		
															SHEET		
															011		
															REV No.		
															1		