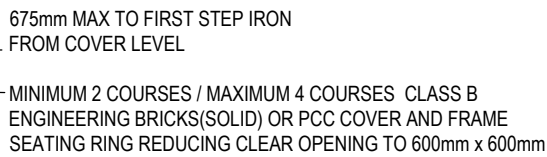
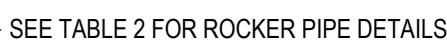


(DESIGN AND CONSTRUCTION GUIDANCE)

(NOTE: WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5
THE OPENING SHOULD BE SITED OVER THE CHANNEL)



TYPE A AND TYPE B (DESIGN AND CONSTRUCTION GUIDANCE)

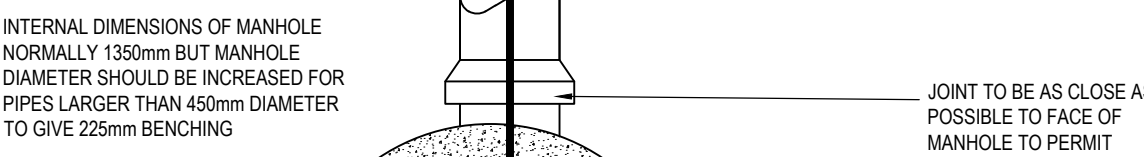
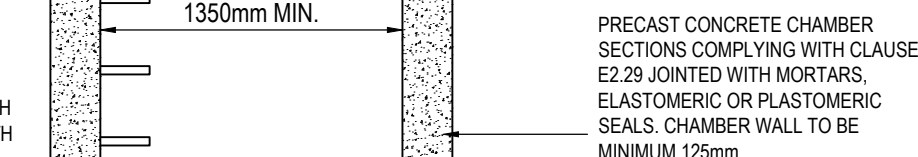


DIAMETERS	
MINIMUM NOMINAL INTERNAL DIMENSION OF MANHOLE (mm)	
150	150
200	200
250	250
300	300
350	350
400	400
450	450
500	500
550	550
600	600
650	650
700	700
750	750
800	800
850	850
900	900
950	950
1000	1000
1050	1050
1100	1100
1150	1150
1200	1200
1250	1250
1300	1300
1350	1350
1400	1400
1450	1450
1500	1500
1550	1550
1600	1600
1650	1650
1700	1700
1750	1750
1800	1800
1850	1850
1900	1900
1950	1950
2000	2000
2050	2050
2100	2100
2150	2150
2200	2200
2250	2250
2300	2300
2350	2350
2400	2400
2450	2450
2500	2500
2550	2550
2600	2600
2650	2650
2700	2700
2750	2750
2800	2800
2850	2850
2900	2900
2950	2950
3000	3000
3050	3050
3100	3100
3150	3150
3200	3200
3250	3250
3300	3300
3350	3350
3400	3400
3450	3450
3500	3500
3550	3550
3600	3600
3650	3650
3700	3700
3750	3750
3800	3800
3850	3850
3900	3900
3950	3950
4000	4000
4050	4050
4100	4100
4150	4150
4200	4200
4250	4250
4300	4300
4350	4350
4400	4400
4450	4450
4500	4500
4550	4550
4600	4600
4650	4650
4700	4700
4750	4750
4800	4800
4850	4850
4900	4900
4950	4950
5000	5000
5050	5050
5100	5100
5150	5150
5200	5200
5250	5250
5300	5300
5350	5350
5400	5400
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5600	5600
5650	5650
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5750	5750
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5850	5850
5900	5900
5950	5950
6000	6000
6050	6050
6100	6100
6150	6150
6200	6200
6250	6250
6300	6300
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6800	6800
6850	6850
6900	6900
6950	6950
7000	7000
7050	7050
7100	7100
7150	7150
7200	7200
7250	7250
7300	7300
7350	7350
7400	7400
7450	7450
7500	7500
7550	7550
7600	7600
7650	7650
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7900	7900
7950	7950
8000	8000
8050	8050
8100	8100
8150	8150
8200	8200
8250	8250
8300	8300
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8650	8650
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8850	8850
8900	8900
8950	8950
9000	9000
9050	9050
9100	9100
9150	9150
9200	9200
9250	9250
9300	9300
9350	9350
9400	9400
9450	9450
9500	9500
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9850	9850
9900	9900
9950	9950
10000	10000

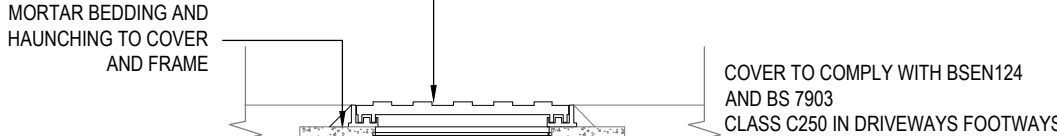
NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150-600	0.6
600-750	0.7

ALL PIPES ENTERING THE BOTTOM OF THE
MANHOLE TO HAVE SOFFITS LEVEL

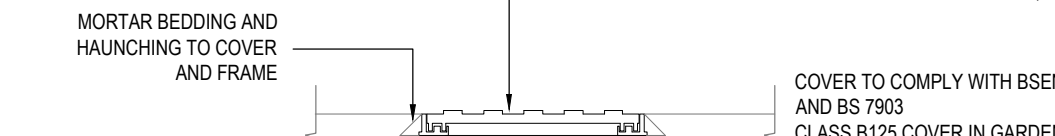
COVER LEVEL TO SOFFIT OF PIPE L
RIGID MATERIAL CONSTRUCTION



NOTE: THE USE OF PRECAST CONCRETE CHAMBER UNITS TO E2.25 WITH 150mm GEN3 CONCRETE COMPLYING WITH E4.1 AND BRE SPECIAL DIGEST 1 IN PLACE OF BRICKWORK CONSTRUCTION IS PERMITTED



(WHERE SITED IN DRIVEWAYS/PAVED AREAS) - MAX 3000 DEPTH



(WHERE SITED IN GARDENS) - MAX 3000 DEPTH

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SERIES DRAWINGS.

1. ANY ADAPTABLE DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE WATER AUTHORITY'S PUBLICATION "CODES FOR ADIPTION DESIGN AND CONSTRUCTION GUIDE (DCG)" AS WELL AS ANY ADDITIONAL REQUIREMENTS OF THE ADIPTION AUTHORITY AND APPROVED DRAWINGS.
2. PRECAST CONCRETE MANHOLE RINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS5911: PART 200.
3. ALL BRICKWORK TO BE CLASS B ENGINEERING COMPLYING WITH THE RELEVANT PROVISIONS OF BS 3921. CONCRETE BRICKS MAY BE USED IF THEIR SPECIFICATION IS THE SAME AS CLASS B ENGINEERING BRICKS. PLEASE SEEK APPROVAL FROM RELEVANT WATER AUTHORITY BEFORE USING.
4. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 AND BE OF A NON-RISING, NON-VENTILATING DESIGN.
5. THE USE OF PRECAST CONCRETE PRODUCTS A SULPHATE RESISTANT CEMENT IS MANDATORY. UNLESS A LABORATORY PROVES SUCH PRECAUTIONS ARE NOT NECESSARY.
6. 150mm concrete SURROUND IS REQUIRED AROUND PIPES WHERE THE DEPTH FROM FINISHED SURFACE TO PIPE SOFIT IS LESS THAN 1200mm IN HARDSTANDING AREAS AND LESS THAN 900mm WITH OPEN SPACE.
7. LOCATIONS OF ALL EXISTING SEWERS ON-SITE TO BE CONFIRMED A DETAILS PROVIDED TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
8. ALL TRENCHES UNDER EXISTING & PROPOSED HIGHWAYS ARE TO BE BACKFILLED WITH THOROUGHLY COMPACTED DOT TYPE 1 SUB-BASE.
9. ALL STREET WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT LOCAL AUTHORITY DESIGN GUIDE & SPECIFICATION & ARE TO BE THE SUBJECT OF A SECTION 38 AGREEMENT OF THE HIGHWAYS ACT 1980.
10. ROADS AND SEWERS CONTRACTOR MUST INFORM WATER AUTHORITY PRIOR TO WORKS COMMENCING ANY CONNECTION WORKS TO ADOPTED SEWERS.
11. ALL CONNECTIONS TO EXISTING ADOPTED SEWERS ARE SUBJECT TO WATER AUTHORITY APPROVAL AND SECTION 106 OF THE WATER INDUSTRIES ACT 1991.
12. PRIVATE DRAINAGE TO BE 110mm DIA. UPVC PIPES WITH GRP OR UPVC INSPECTION CHAMBERS UNLESS NOTIFIED OTHERWISE. SYSTEM DESIGN & CONSTRUCTION TO CONFORM WITH MANUFACTURER'S INSTRUCTIONS & "GOOD PRACTICE GUIDE".
13. ALL PRIVATE DRAINAGE TO BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATION REQUIREMENTS.
14. ALL CONNECTIONS TO BE TURNED IN DIRECTION OF FLOW USING PIPE BENDS.
15. ALL POLYPROPYLENE INSPECTION CHAMBERS SHALL BE IN ACCORDANCE WITH BS1518.
16. ALL DRAINAGE PIPES TO BE PLASTIC:
UNPLASTICATED P.V.C PIPES TO BS 4660:200 & BS EN 1401-1 KITEMARKED.
STRUCTURED WALL UNPLASTICATED P.V.C PIPES TO BS 13476: AND W3-435-01 KITEMARKED.

P2	NOTE 16 ADDED	JM	NB	09/04/24
P1	FIRST ISSUE	JM	NB	05/04/24
REV	AMENDMENT	BY	CKD	DATE

JOHN SWIFT HOMES LTD

HARRAS ROAD
WHITEHAVEN

DRAINAGE DETAILS

SHEET 1

BH
BECKWITH
& HANLON

Beckwith & Hanlon
Consulting Engineers Limited
F22 Willow Court, Marquis Court,
Team Valley Trading Estate,
Gateshead, NE11 0RU
tel: 0191 273 7582

SCALE	BY	CHECKED	DATE
NTS	JH	JM	MARCH '24

DRAWING NO.
23-026-230

STATUS PRELIMINARY	REV	P2
	SIZE	A1