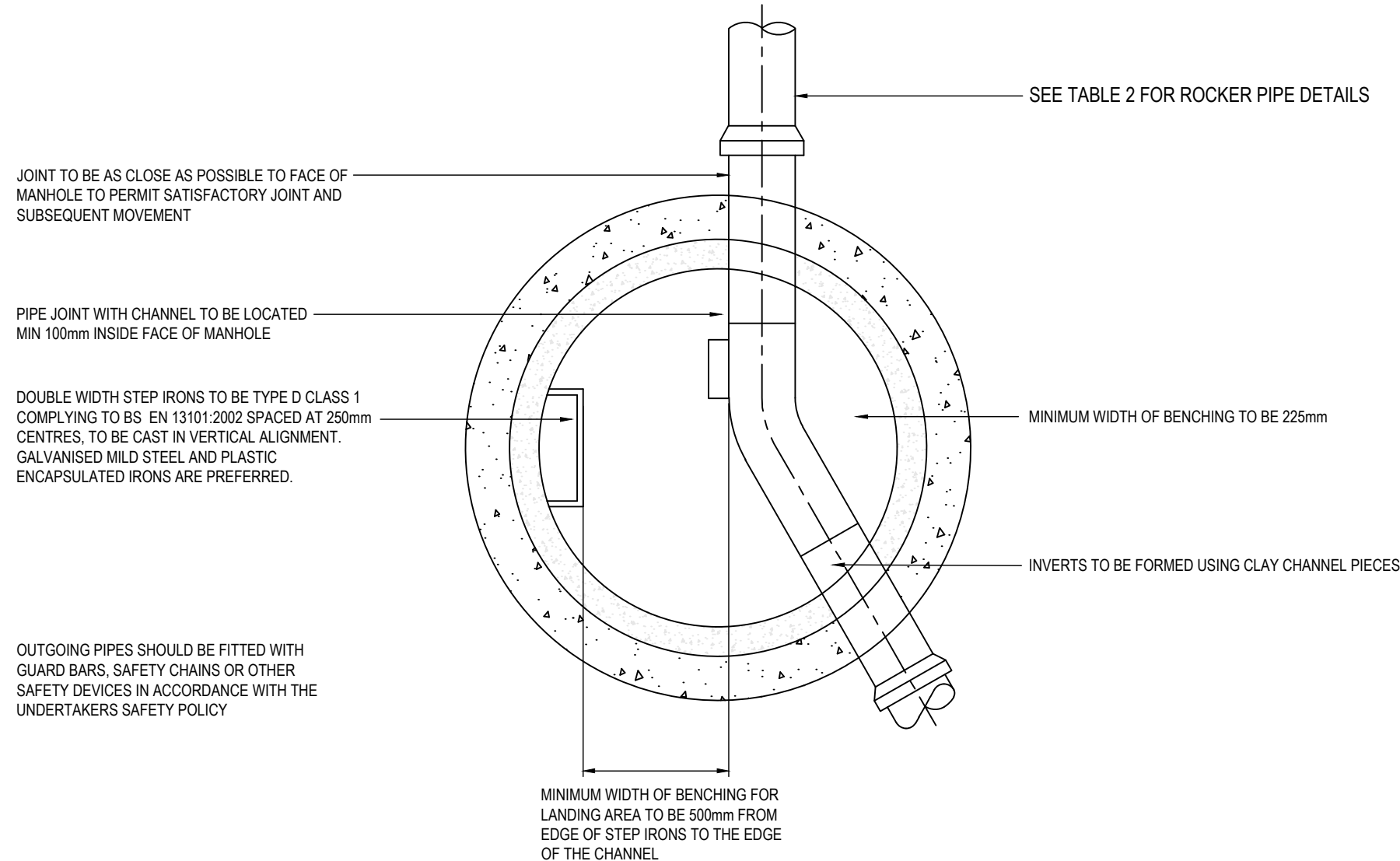


(DESIGN AND CONSTRUCTION GUIDANCE)
FOR USE ON MANHOLES WITH MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3000mm
(NOTE: WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5m
THE OPENING SHOULD BE SITED OVER THE CHANNEL)



TYPICAL MANHOLE PLAN VIEW

TYPE A AND TYPE B (DESIGN AND CONSTRUCTION GUIDANCE)

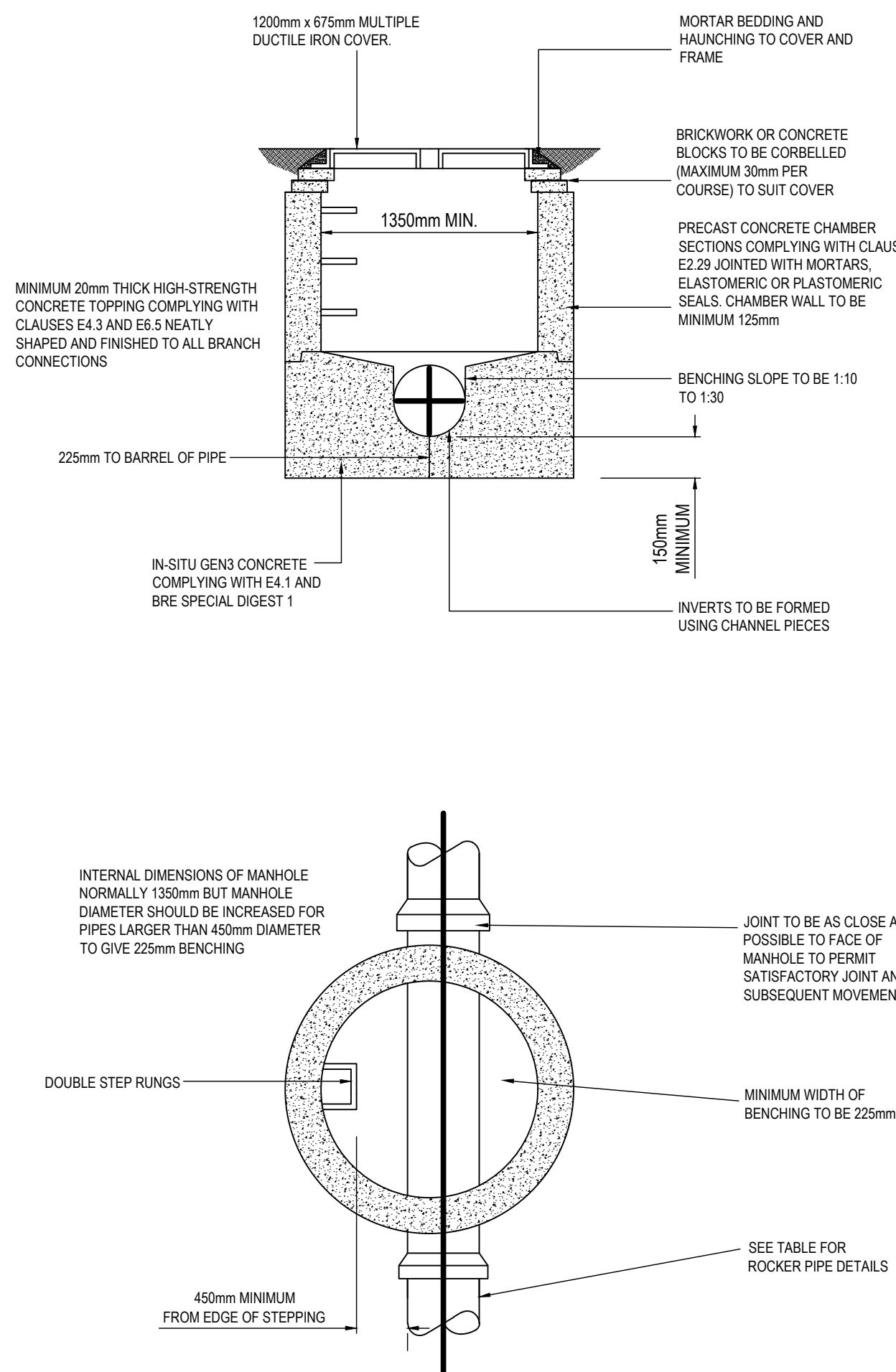


MANHOLE DIAMETERS	
NOMINAL INTERNAL DIAMETER OF LARGEST PIPE IN MANHOLE(mm)	MINIMUM NOMINAL INTERNAL DIMENSION OF MANHOLE (mm)
UP TO 300	1200
375-450	1350
500-700	1500
750-900	1800
GREATER THAN 900	SPECIFIC DETAILED DRAWING REQUIRED

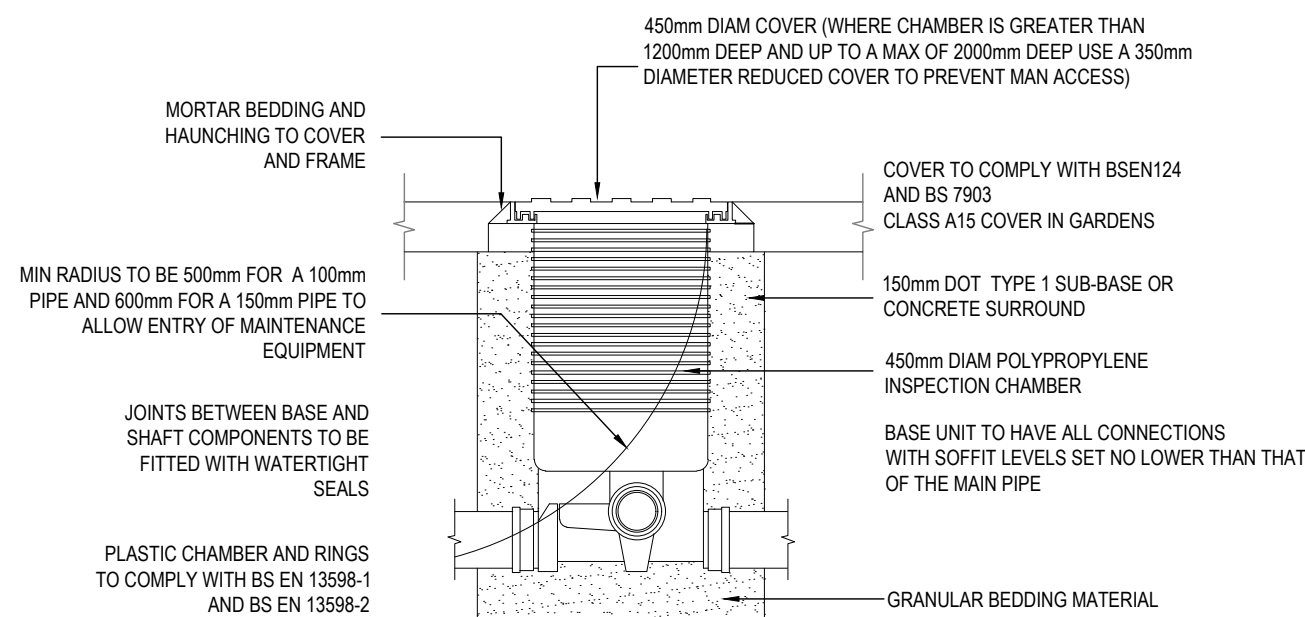
NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150-600	0.6
601-750	1.0
OVER 750	1.25

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

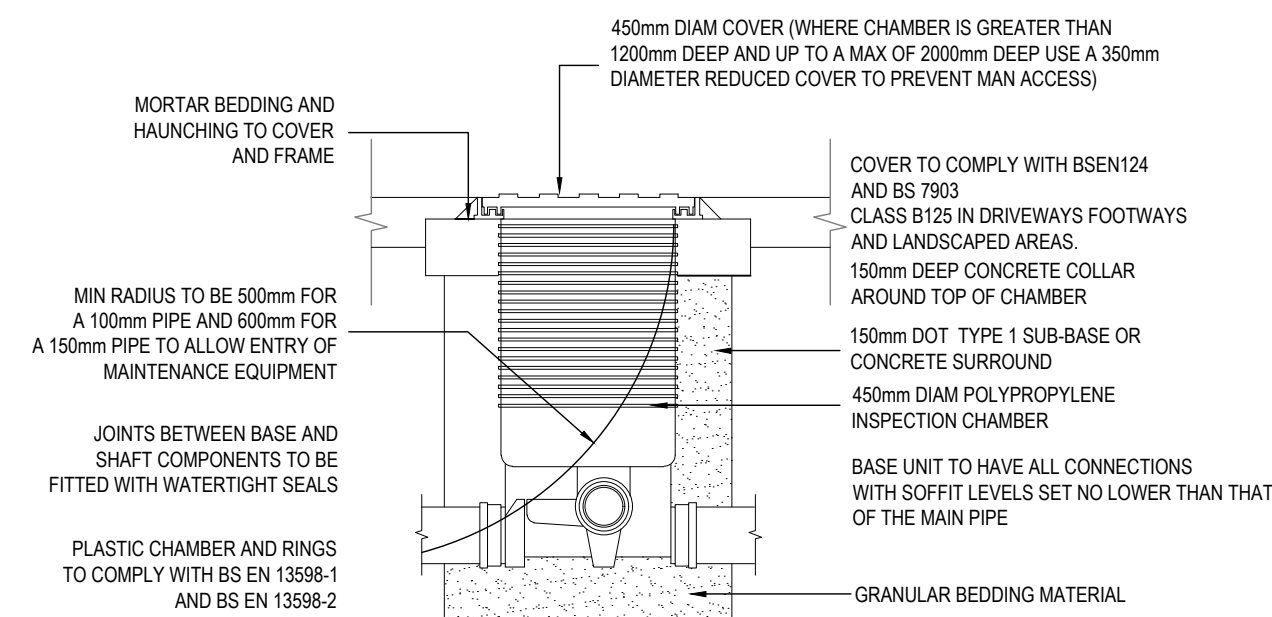
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE LESS THAN 1.5m
RIGID MATERIAL CONSTRUCTION



NOTE: THE USE OF PRECAST CONCRETE CHAMBER UNITS TO E2.29
WITH 150mm GEN3 CONCRETE COMPLYING WITH E4.1 AND BRE
SPECIAL DIGEST 1 IN PLACE OF BRICKWORK CONSTRUCTION IS
PERMITTED



(WHERE SITED IN GARDENS) - MAX DEPTH 3000
SCALE 1:20



(WHERE SITED IN DRIVEWAY/ PAVED AREAS) - MAX DEPTH 3000
SCALE 1:20

NOTE

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DO NOT SCALE OFF THIS DRAWING

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NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH BECKWITH AND HANLON DRG. 23-034-200 SERIES DRAWINGS.

DRAINAGE NOTES

1. ANY ADAPTABLE DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE WATER AUTHORITIES PUBLICATION "CODES FOR ADAPTION DESIGN AND CONSTRUCTION GUIDE (DCG)" AS WELL AS ANY ADDITIONAL REQUIREMENTS OF THE ADAPTING AUTHORITY AND APPROVED DRAWINGS.
2. PRECAST CONCRETE MANHOLE JOINTS 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 MAYBE 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-ROCKING, NON-VENTILATING DESIGN.
5. THE USE OF PRECAST CONCRETE PRODUCTS & 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 SLOTT IS LESS THAN 1200mm in HARDSTANDING AREAS AND LESS THAN 900mm WITHIN OPEN SPACE.
7. LOCATIONS OF ALL EXISTING SEWERS ON-SITE TO BE CONFIRMED & 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.
10. ROADS AND SEWERS CONTRACTOR MUST INFORM WATER AUTHORITY PRIOR TO WORKS COMMENCING ANY CONNECTION WORKS TO ADAPTED SEWERS.
11. ALL CONNECTIONS TO EXISTING ADAPTED 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 & "9000 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 BS7158.

P1	FIRST ISSUE	JH	JM	17/01/2017
REV	AMENDMENT	BY	CKD	DATE

CLIENT

JOHN SWIFT HOMES LTD

PROJECT

SUMMERGROVE
WHITEHAVEN

DRAWING TITLE

DRAINAGE DETAILS

SHEET 1



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

SCALE AS SHOWN	BY JH	CHECKED JM	DATE DEC. '24
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DRAWING NO.
23-034-230

STATUS PRELIMINARY	REV	P1
	SIZE	A1