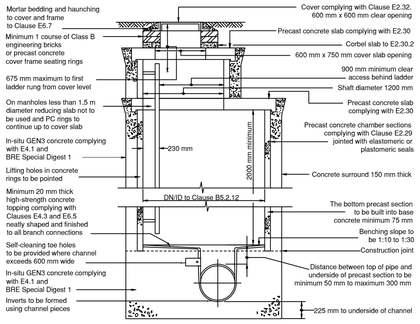
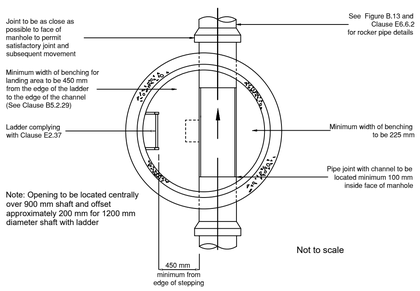
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FIGURE B.5
TYPICAL MANHOLE DETAIL - TYPE A1

Depth from cover level to soffit of pipe 3 m to 6 m with ladder and reducing slab
Rigid material construction with concrete surround

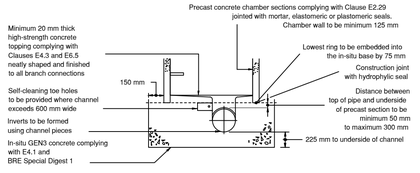


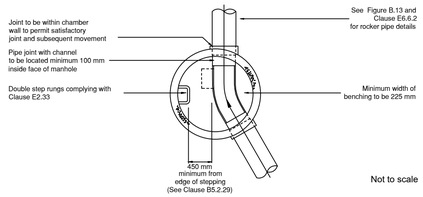


Note: Opening to be located centrally over 900 mm shaft and offset approximately 200 mm for 1200 mm diameter shaft with ladder

Not to scale

FIGURE B.11
ALTERNATIVE BASE DETAIL FOR TYPE A AND B MANHOLES WITHOUT CONCRETE SURROUND





Not to scale

FIGURE B.26
CONNECTIONS TO SEWER

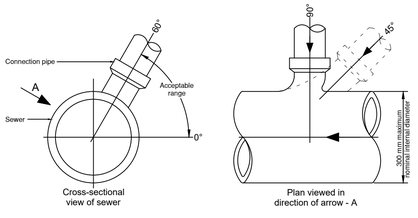
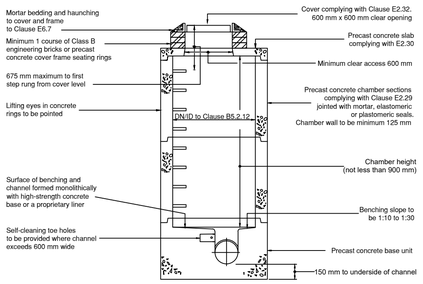
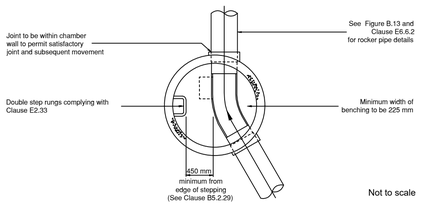


FIGURE B.9
TYPICAL MANHOLE DETAIL - TYPE B

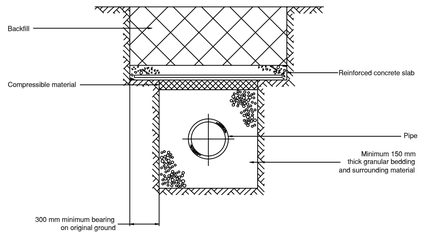
Depth from cover level to soffit of pipe less than 1.5 m to 3.0 m
Rigid material construction without concrete surround





Not to scale

FIGURE B.27
PROTECTION OF PIPES LAID AT SHALLOW DEPTHS



Not to scale

FIGURE B.28
JOINTS FOR CONCRETE ENCASED PIPES

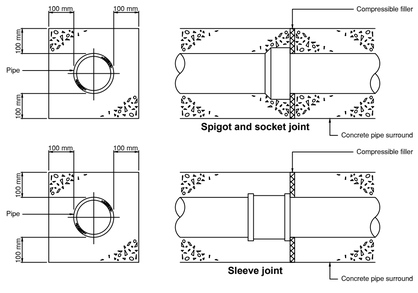


Table B 1
Manhole Diameters

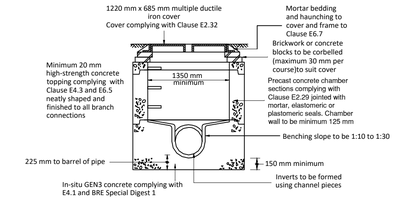
Nominal internal diameter of largest pipe in manhole (mm)	Minimum nominal internal dimensions of manhole(mm)
Less than 375	1200
375-450	1350
500-700	1500
750-900	1800
Greater than 900	Pipe diameter+ 900

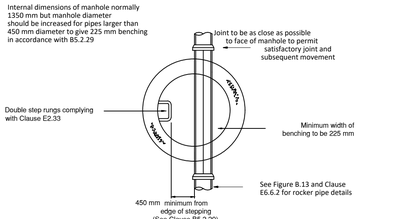
Minimum manhole diameters for Type A, B and C manholes should be in accordance with Table B 1. The minimum diameter should be increased, as necessary, to provide the minimum benching dimensions specified in Figures Figure B 4 to Figure B 12.

SSG APPENDIX C - DESIGN AND CONSTRUCTION GUIDANCE SHOULD BE REFERENCED AT ALL TIMES THROUGHOUT CONSTRUCTION

FIGURE B.15
TYPICAL MANHOLE DETAIL - TYPE C

Depth from cover level to soffit of pipe less than 1.5 m
Maximum pipe size 450 mm diameter
Rigid material construction

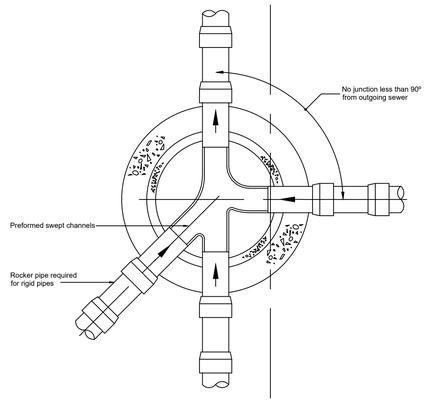




Note: The use of precast concrete chamber units to E2.29 with 150 mm GEN3 in-situ concrete complying with E4.1 and BRE Special Digest 1 in place of brickwork construction is permitted.

Not to scale

FIGURE B.13
TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES



Sectional Plan

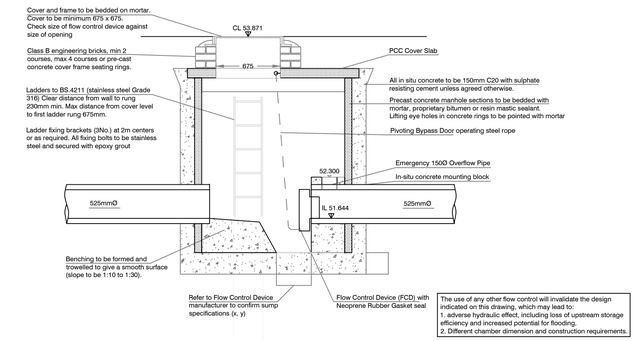
Rigid pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

Nominal diameter (mm)	Maximum effective length (m)
150 - 600	0.6
601 - 750	1.00
over 750	1.25

All pipes entering the bottom of the manhole to have soffits level.

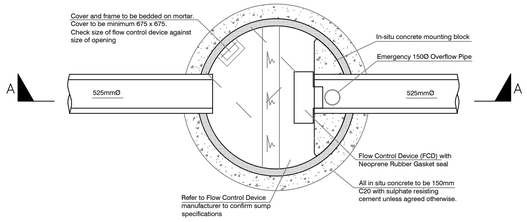
TRENCH WIDTHS

Internal Pipe Diameter (mm).	Maximum Trench Width (mm).
100	600
150	600
225	700
300	850
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
975	2000
1050	2100
1200	2300

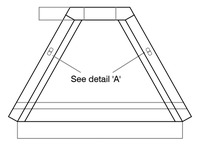


The use of any other flow control will invalidate the design indicated on this drawing, which may lead to:
1. adverse hydraulic effect, including loss of upstream storage efficiency and increased potential for flooding.
2. Different chamber dimension and construction requirements.

FLOW CONTROL CHAMBER
SECTION A-A

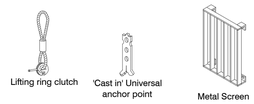


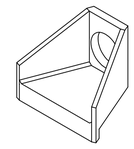
FLOW CONTROL CHAMBER
PLAN

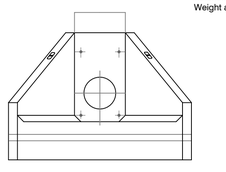


Opening in back wall cast to suit the outside diameter pipe at invert height to opening as required.

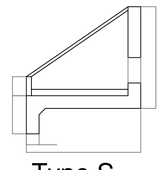
HEADWALL DETAIL
Proprietary Althon Headwall Type







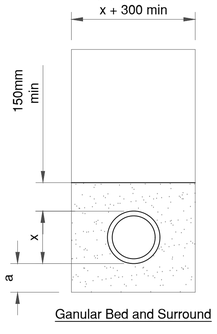
Material: Reinforced concrete
Weight approximately 540kg



Installation
Units should be bedded on minimum 100mm of semi-dry concrete. Sit the headwall level or with a slight fall 1:50 from pipe to spill mouth.
For full detailed installation instructions contact ALTHON Ltd, 01603 488700

Type S

Bedding Factor = 2.2
x + 600 max
x + 300 min

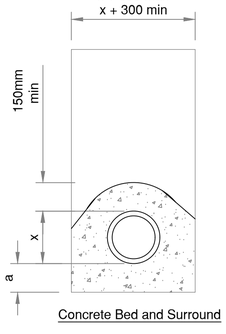


Ganular Bed and Surround

Generally suitable for all soils

Type Z

Bedding Factor = 2.6
x + 600 max
x + 300 min



Concrete Bed and Surround

Generally suitable for all soils

Notes:
1. This drawing has been produced by Pegasus Group for the client and should not be used for anything outside of its intended purpose. Pegasus Group accept no liability for the misuse of this drawing.
2. Do not use this drawing to scale from.
3. Drawing to be used for planning purposes only.
4. Pegasus do not take any liability for the misuse of this drawing.
5. All measurements are in metres unless stated otherwise.
6. This drawing is to be read in conjunction with all other relevant Engineering and Architect's details.
7. All dimensions are in metres unless otherwise stated.
8. All adoptable drainage is to comply with Water UK Design and Construction Guidance (DCG) and any supplementary guidance provided by the local sewage undertaker or appointed NAV.
9. All drainage not complying with minimum covers shown in DCG Clause B5.1.7 is to have concrete surround protection.
10. All references on details are to the relevant DCG chapeters.
11. All materials to be laid in accordance with manufacturer's instructions subject to approval of Local Water Authority or NAV.
12. Manhole cover levels for manholes are approximate only and should be adjusted to match surrounding levels.

ANY WORKS UNDERTAKEN PRIOR TO RECEIPT OF TECHNICAL APPROVAL FOR THEIR RESPECTIVE PROPOSALS IS DONE AT THE CONTRACTOR'S OWN RISK.

REV	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
P4	12.06.2026	REVISED TO SUIT DETAILED DESIGN	KC	SOM	TG
P3	21.1.2025	Revised to suit client comments	AT	JG	SD
P2	31.10.2025	Revised to suit client comments	AT	JG	SD
P1	17.10.2025	First Issue	AT	JG	SD

Adoptable Drainage Construction Details

Land at High Street
Sutton Benger

CLIENT: Charles Church

DATE: 01.10.2025
SCALE: NTS
DRAWN BY: AT
CHECKED BY: JG
APPROVED BY: SD

PEG Drg No. - P25-0648-PEG-25-SK-DR-C-0150
DRAWING NUMBER: P25-2384- PEG - XX - XX - DR - C - 0150 - P4
PG.OFFICE / TEAM: BIR/IN

PEGASUS REF No: P25-2384
DRAWING STATUS: DETAILED DESIGN

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