

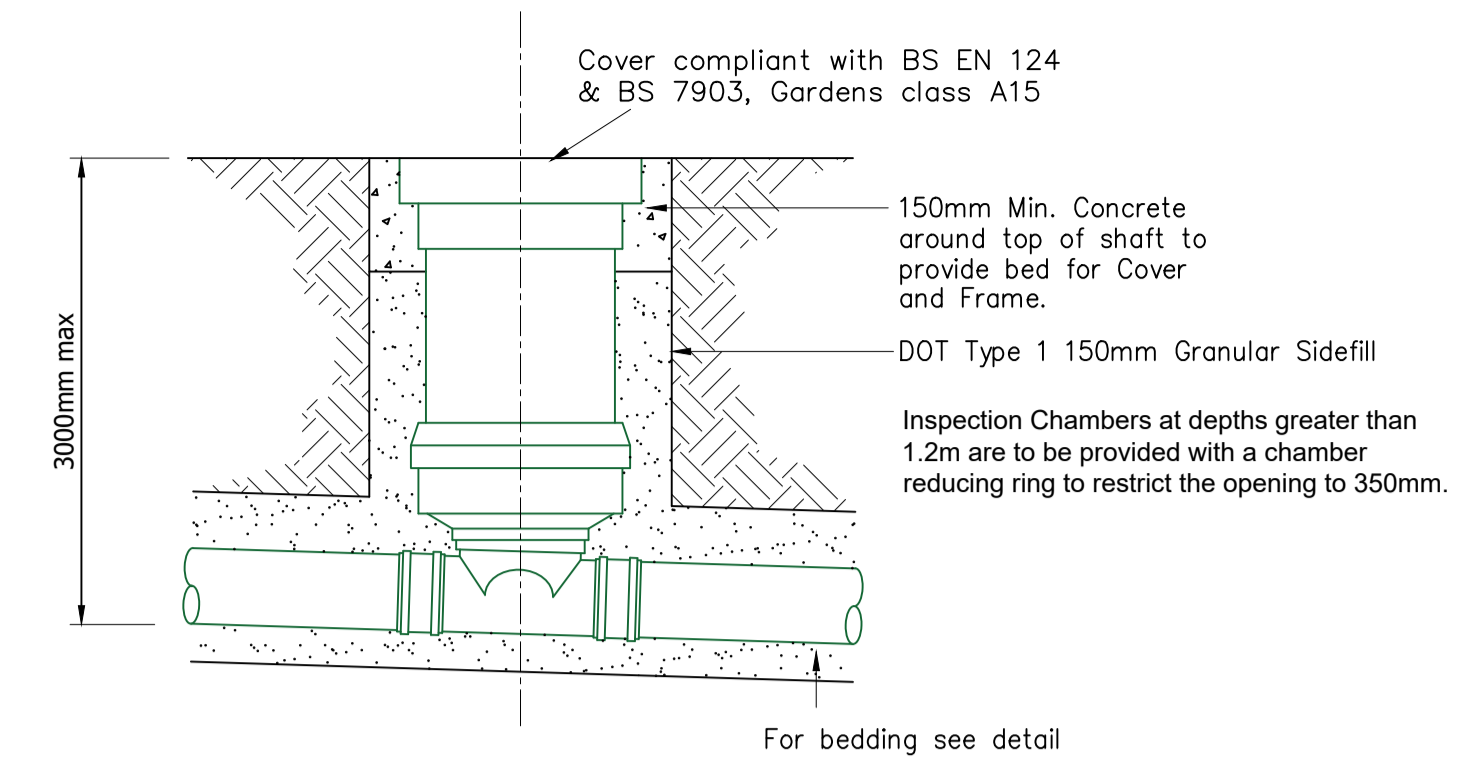
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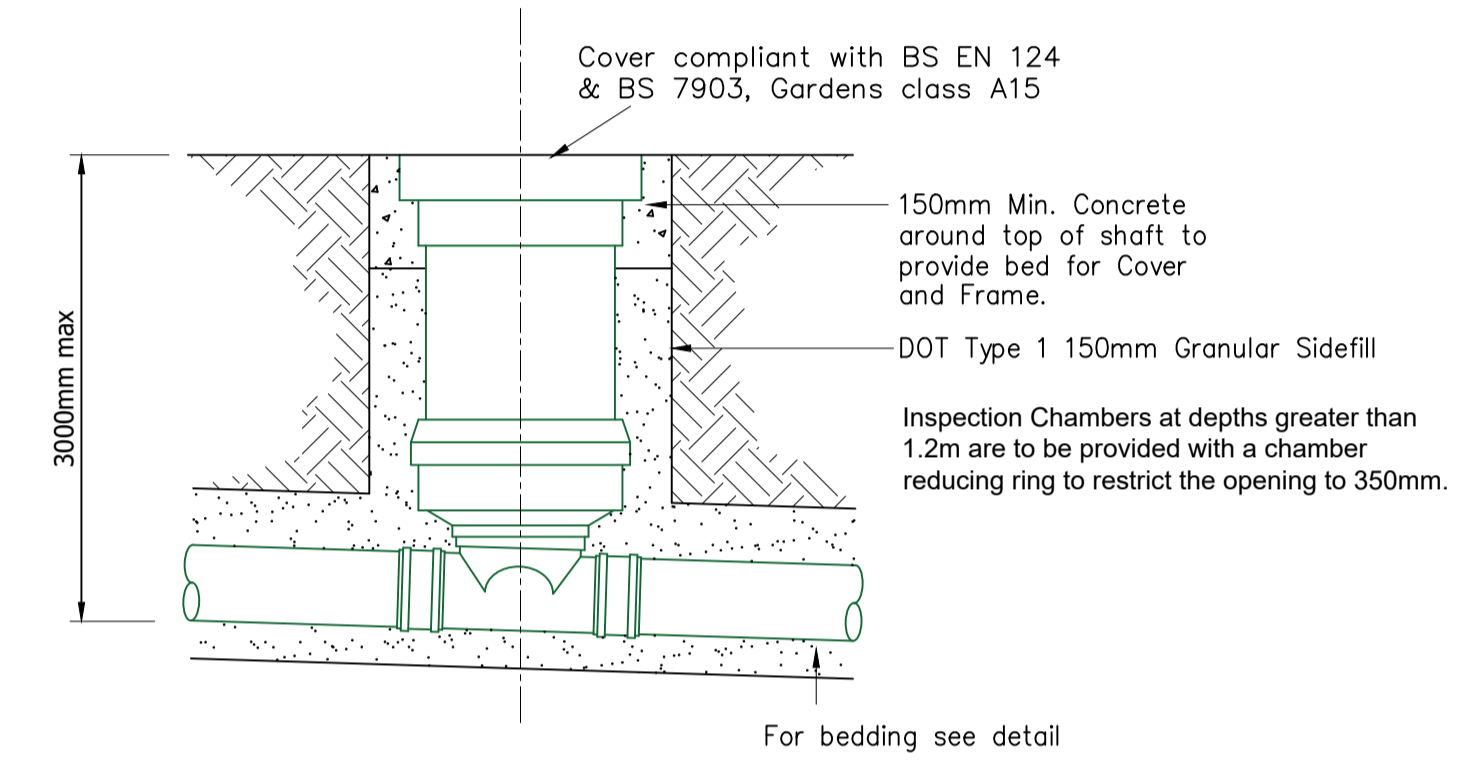
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NOTES

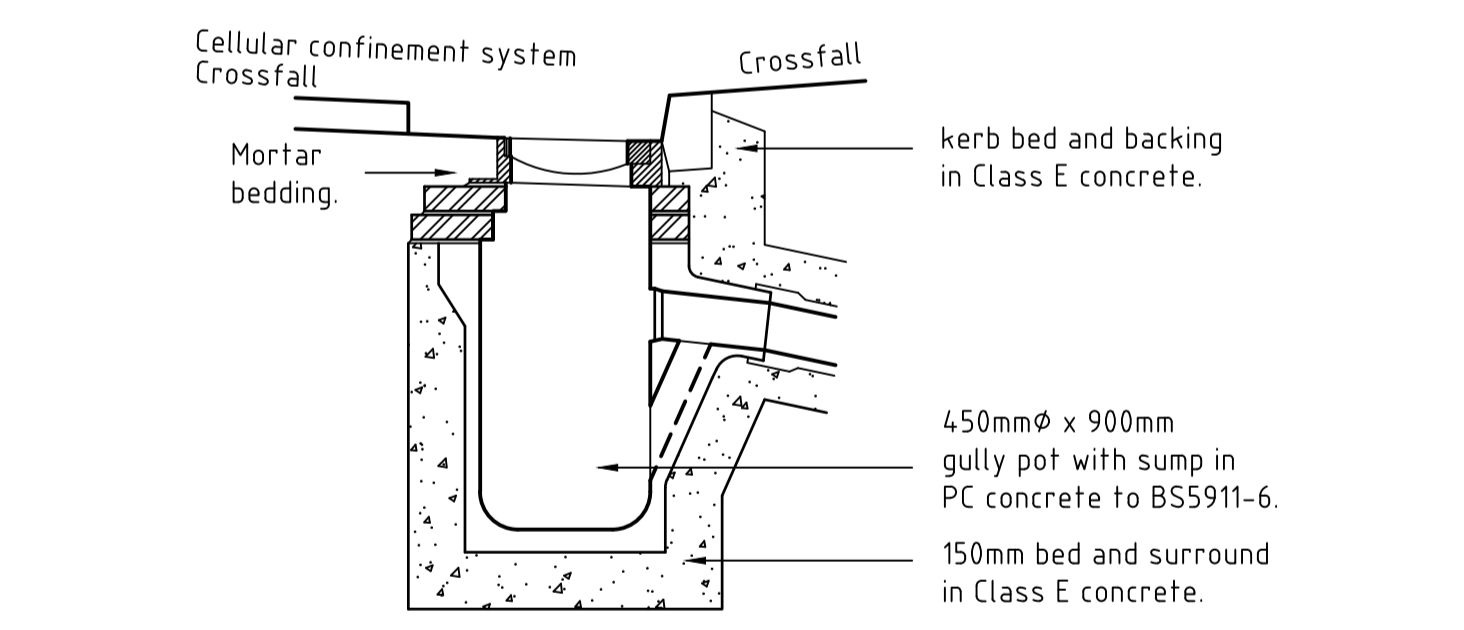
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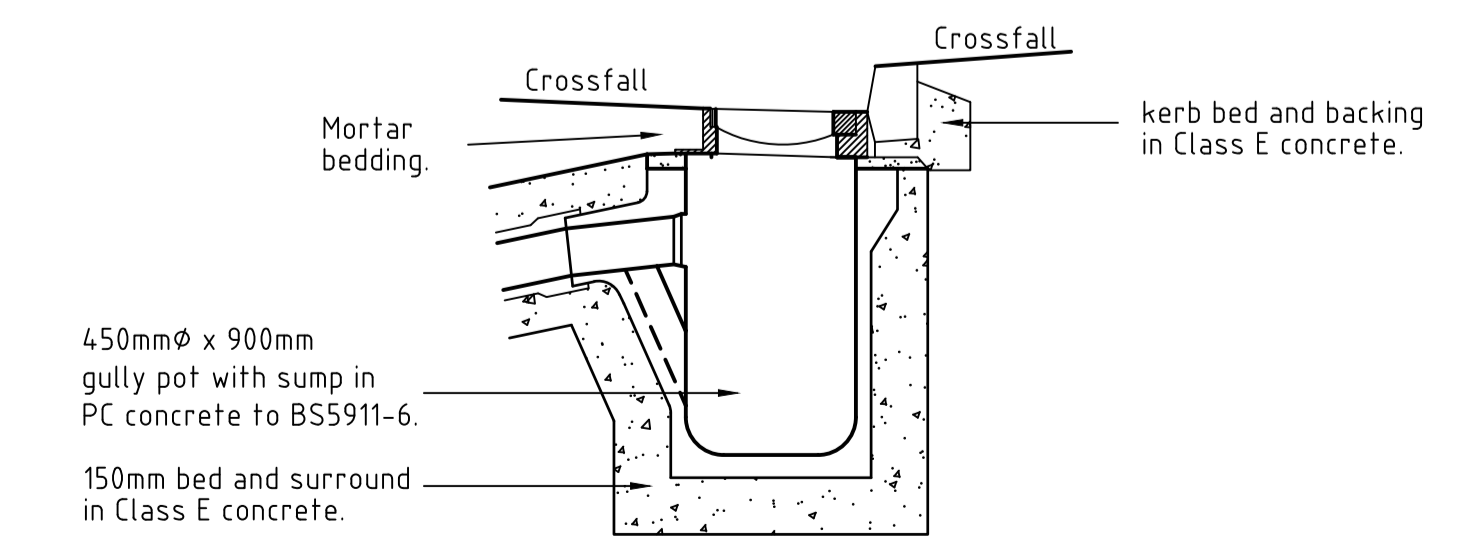
**450mmØ INSPECTION CHAMBER
GRADE 'A' NON-LOAD BEARING INSTALLATION**
1:10



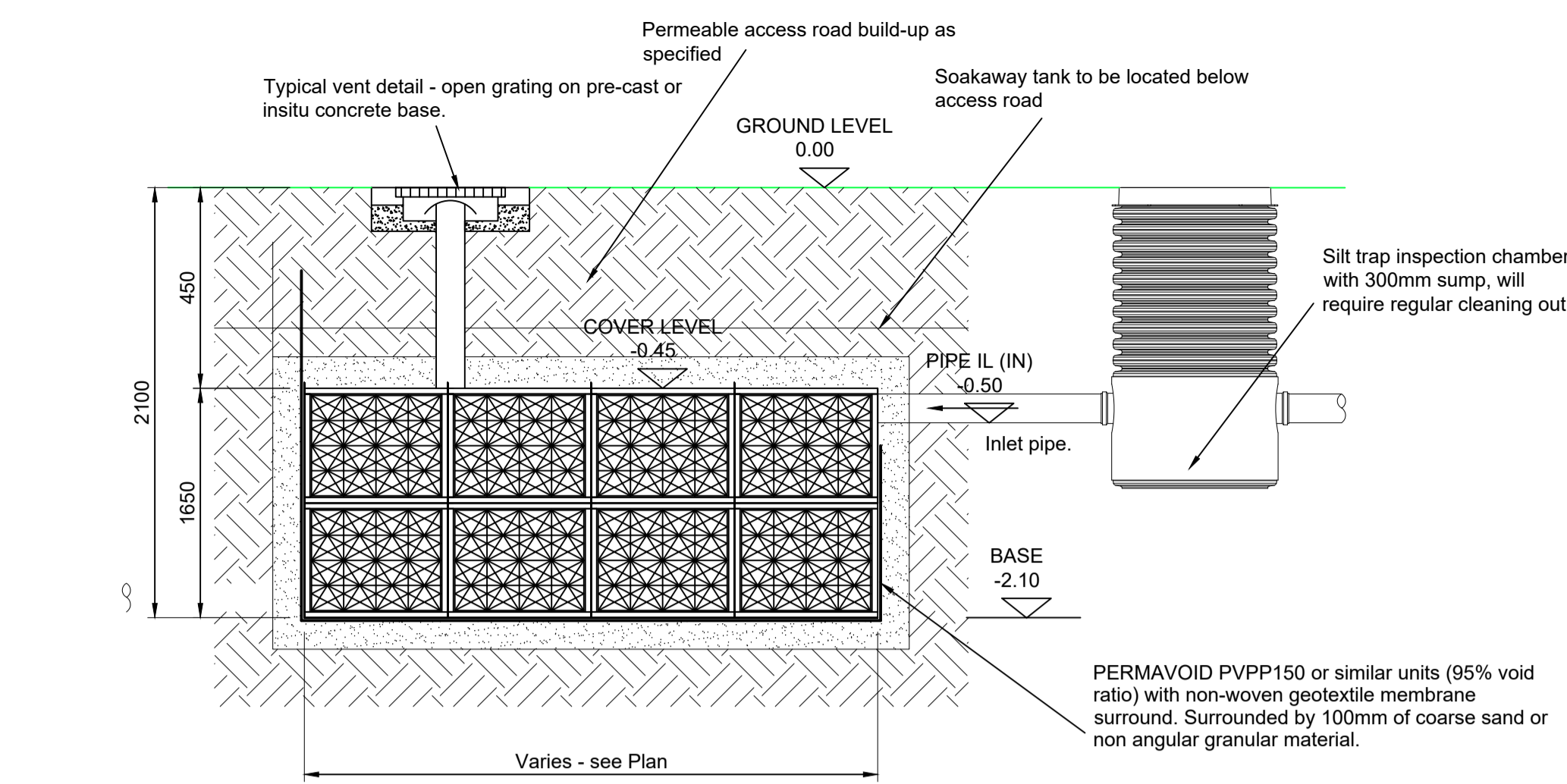
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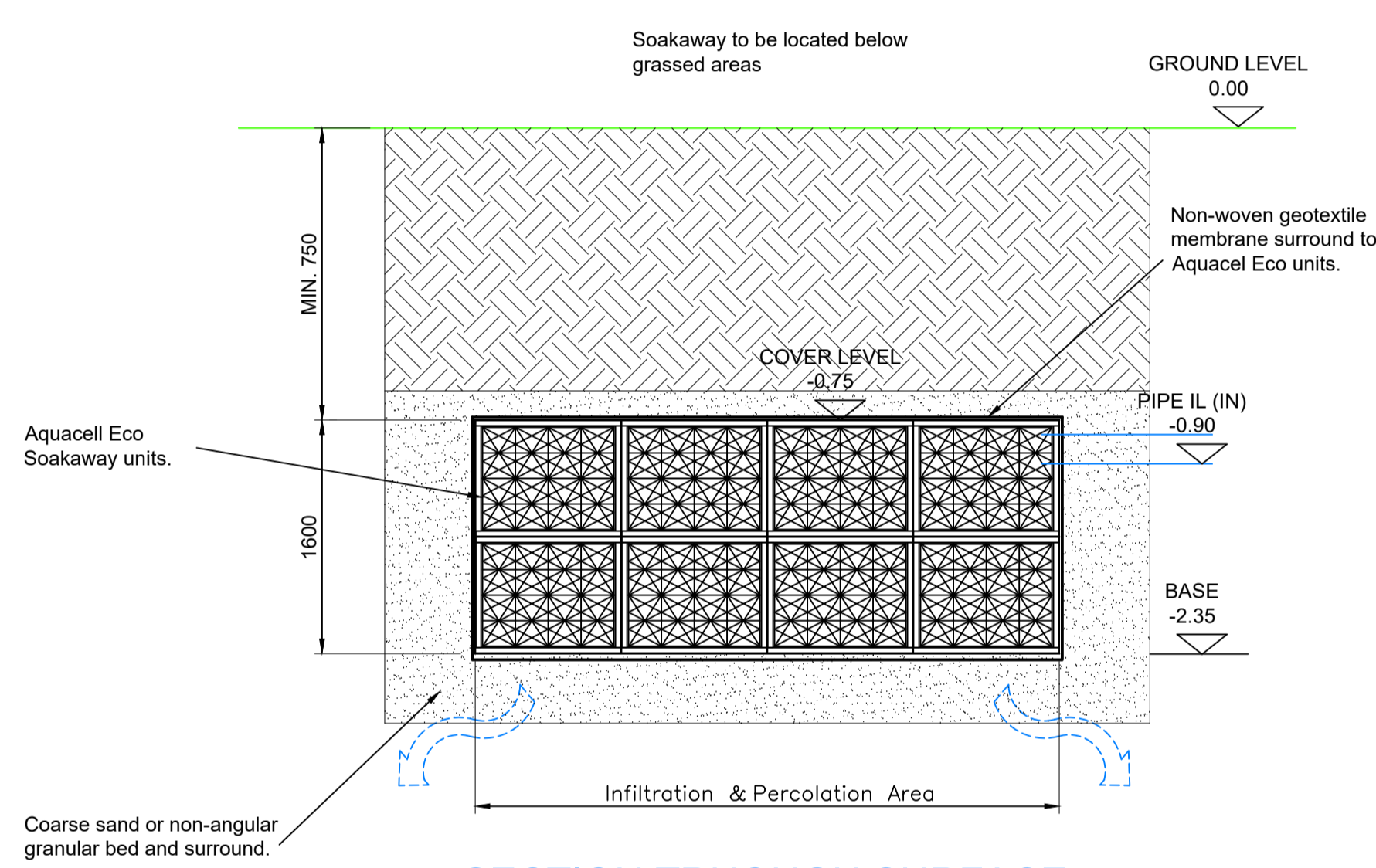
CONCRETE GULLY DETAIL
Scale 1:20



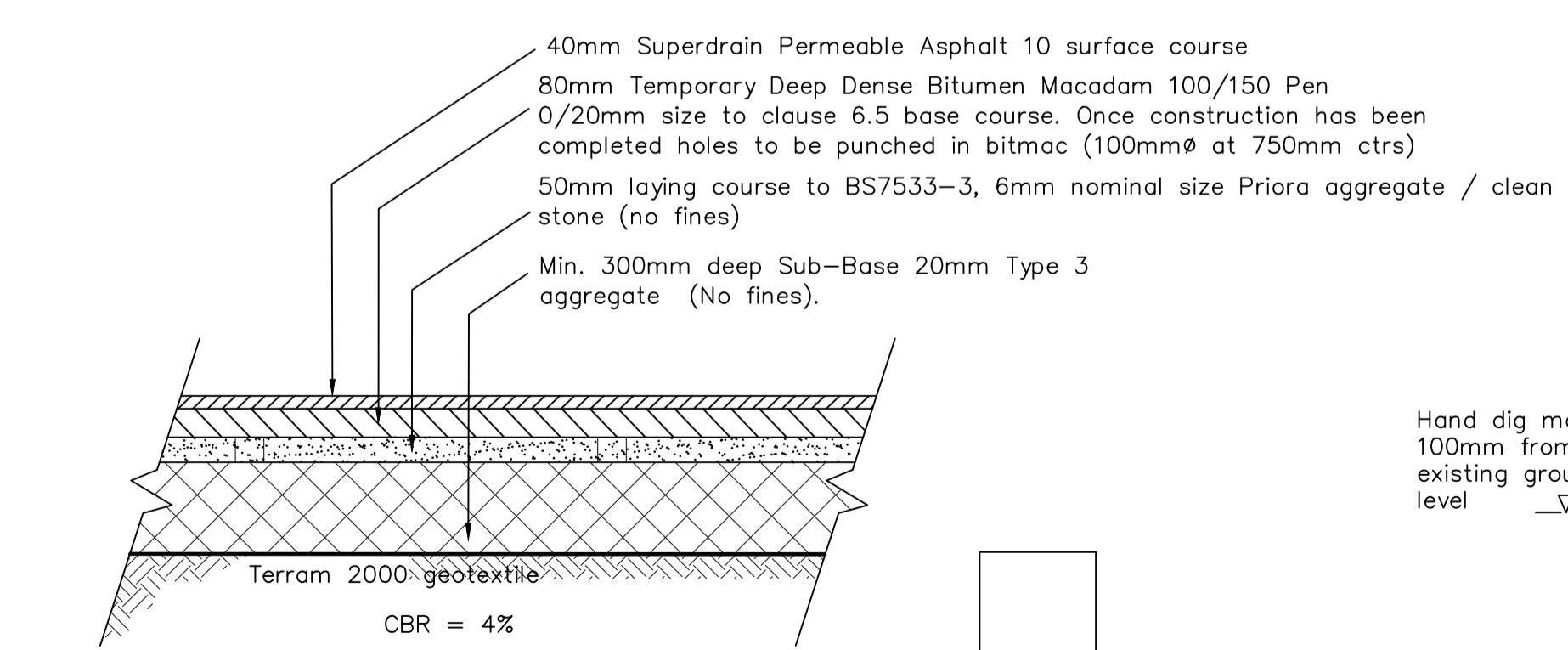
ACCESS ROAD CONCRETE GULLY DETAIL
Scale 1:20



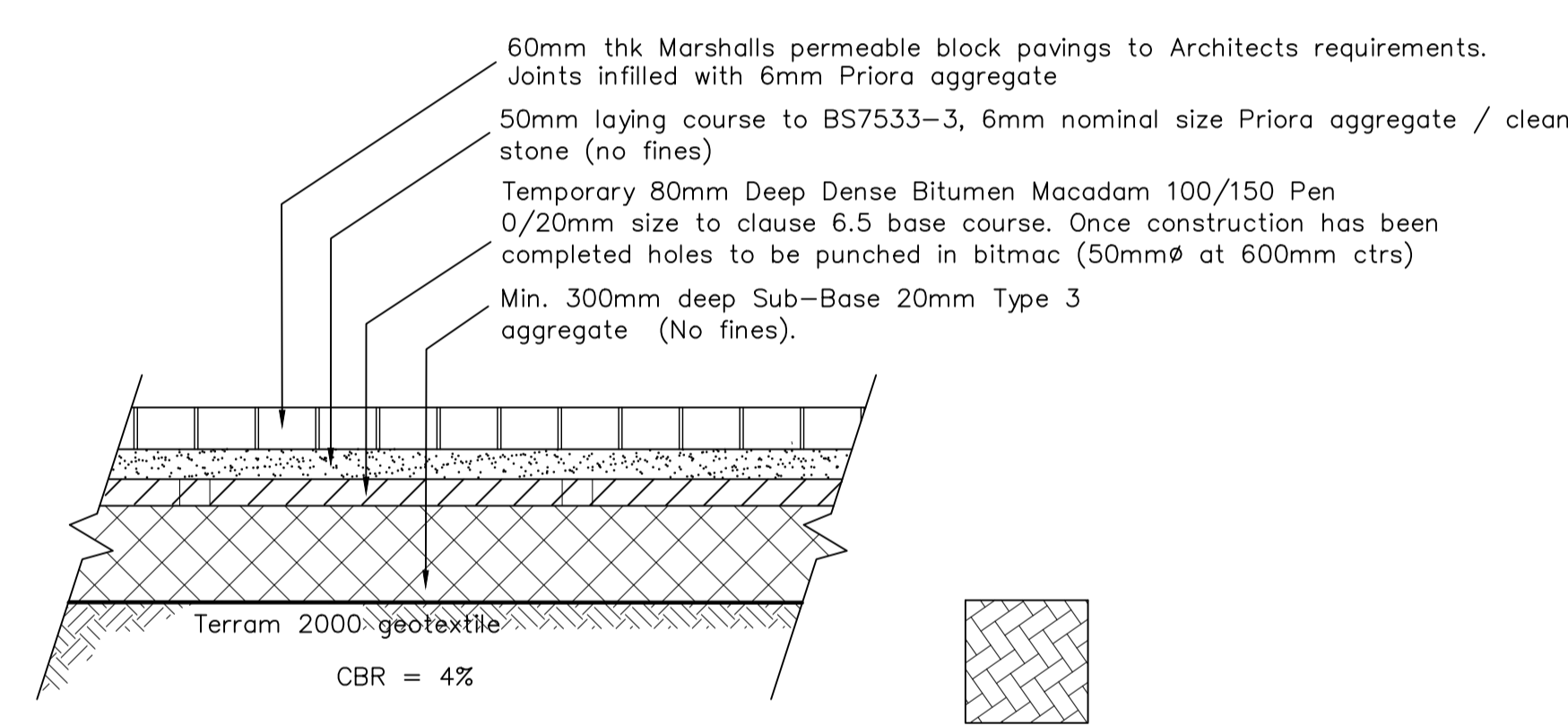
**TYPICAL SECTION
STORM WATER SOAKAWAY DETAIL UNDER ACCESS ROAD**
1:20



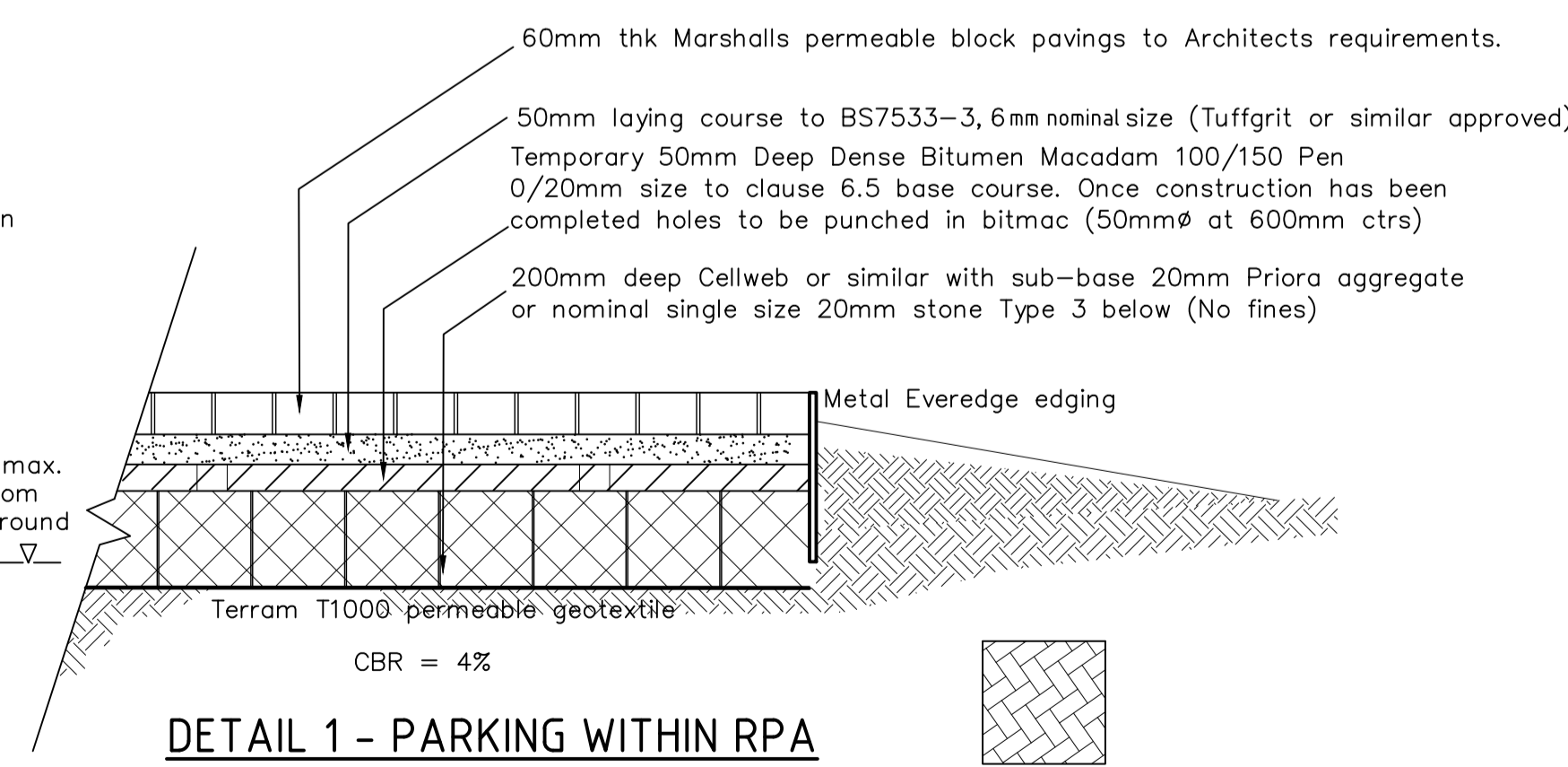
**SECTION THROUGH SURFACE
WATER SOAKAWAY DETAIL WITHIN GARDENS**
1:20



DETAIL 1 - NEW ACCESS ROAD - TYPICAL SECTION
SCALE 1:20



**DETAIL 2 - DRIVEWAY & PARKING AREAS
CONSTRUCTION - TYPICAL SECTION**
SCALE 1:20



**DETAIL 1 - PARKING WITHIN RPA
CONSTRUCTION - TYPICAL SECTION**
SCALE 1:20

Date	By	Revision	QA'D	Chk'd	Ref

Status: **PRELIMINARY**

Cowan Consultancy
STRUCTURAL CIVIL AND BUILDING CONSULTANTS

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consultants@cowanconsult.co.uk
www.cowanconsult.co.uk

Client: **IMPERIAL HOMES SOUTH LTD.**

Project: **DEVELOPMENT AT BITTERNE PARISH CHURCH
WHITES LANE, BITTERNE, SOUTHAMPTON**

Title: **INFRASTRUCTURE
STORM & FOUL WATER DRAINAGE
STANDARD DETAILS (1/2)**

Date	Scale	AS SHOWN	© A1	Drg. No.
OCT 2023	AS SHOWN	© A1		456146/204P

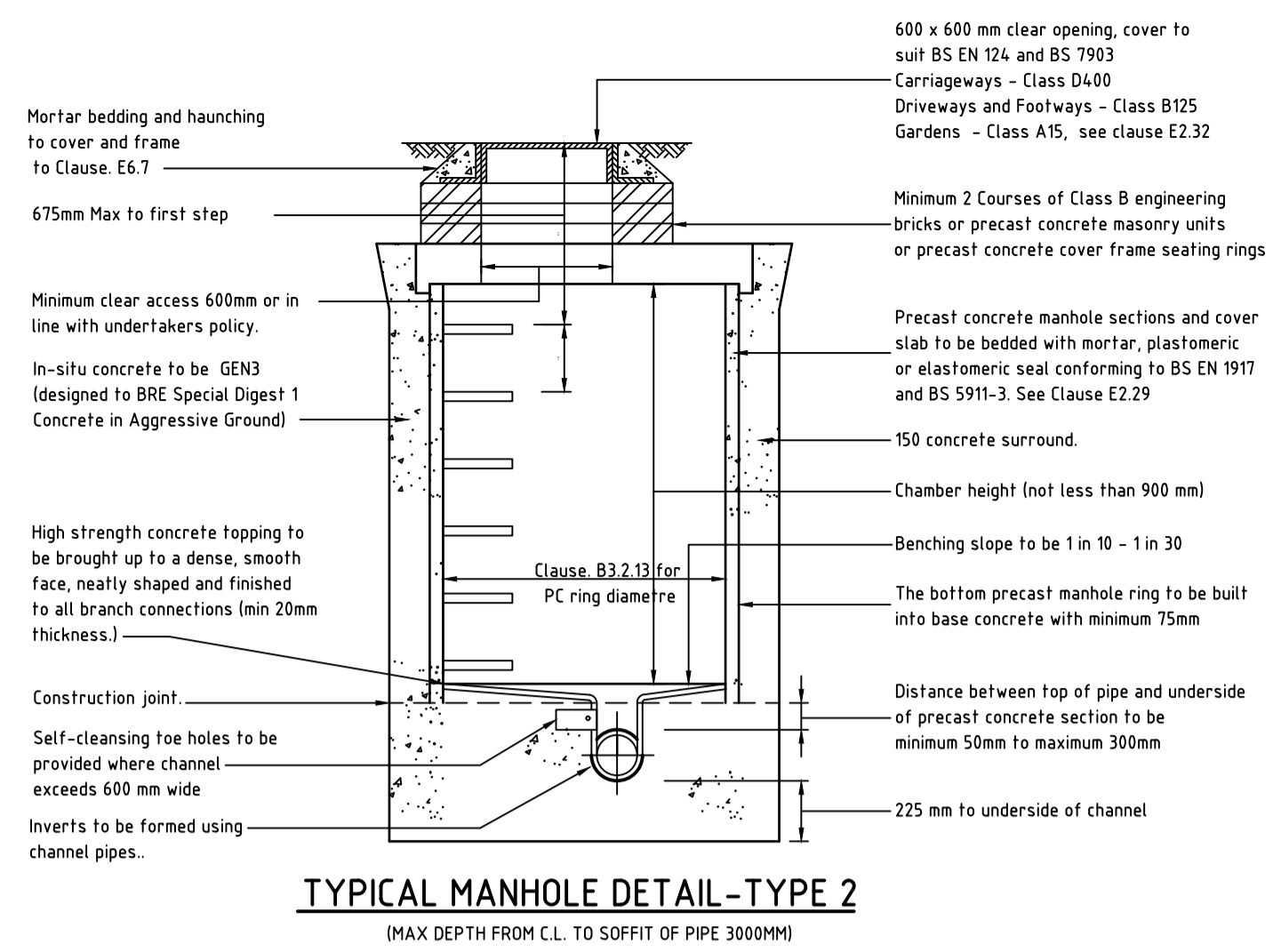
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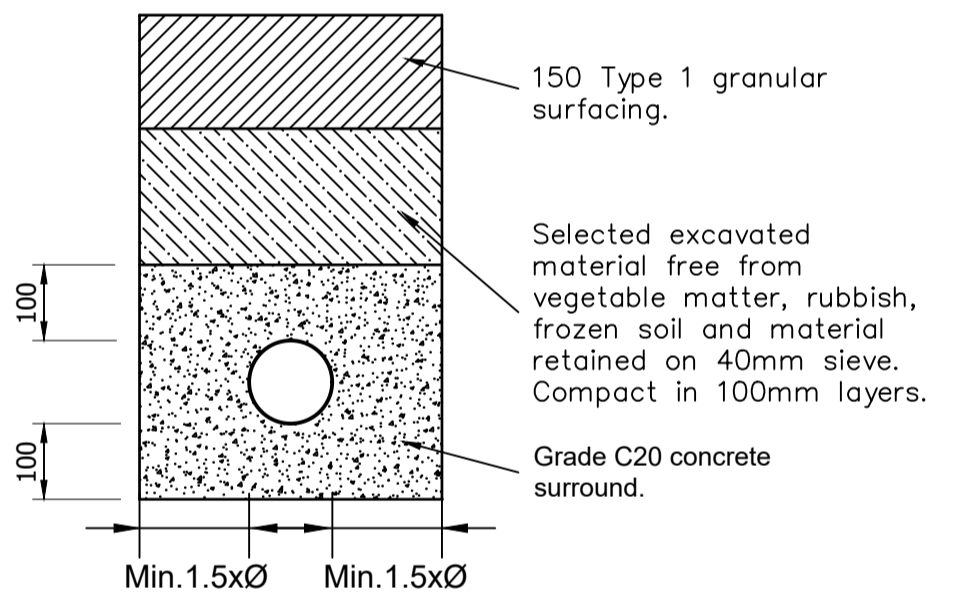
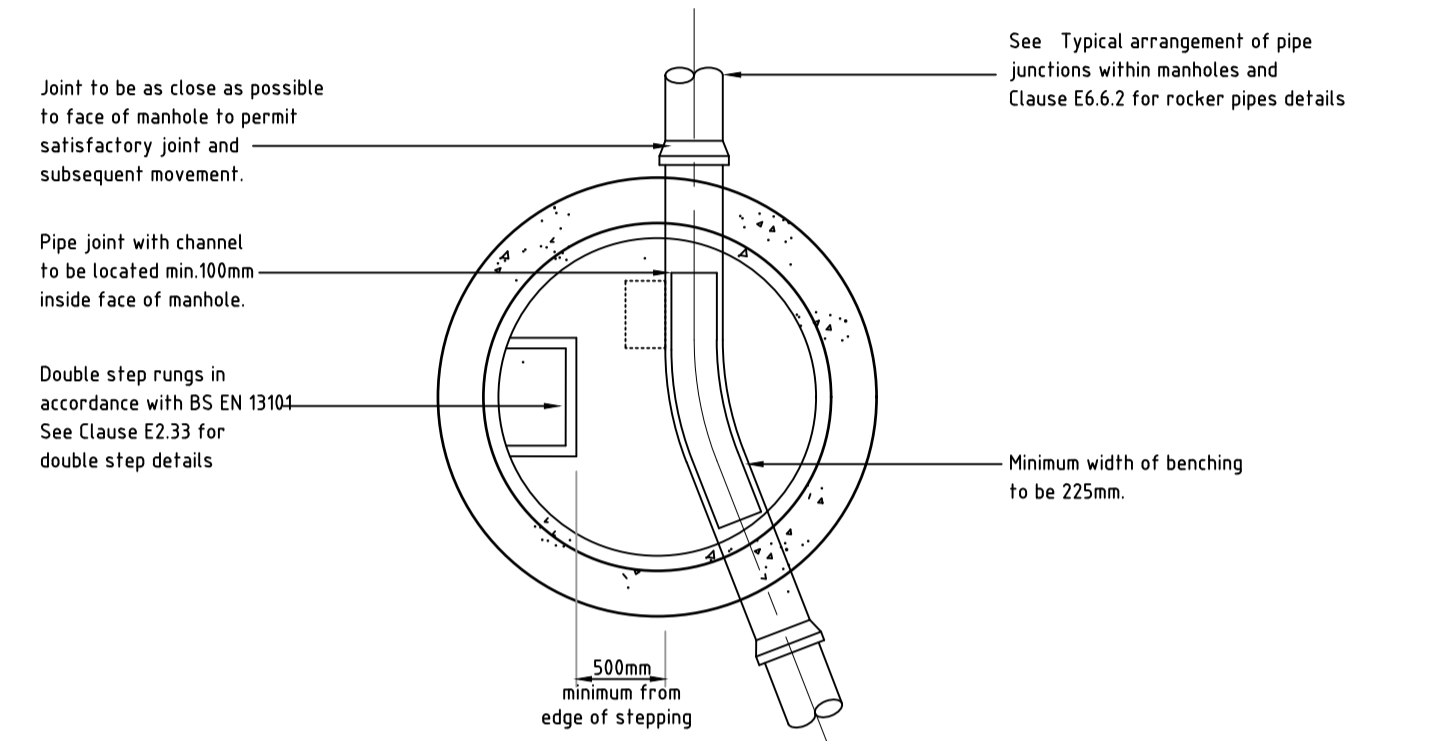
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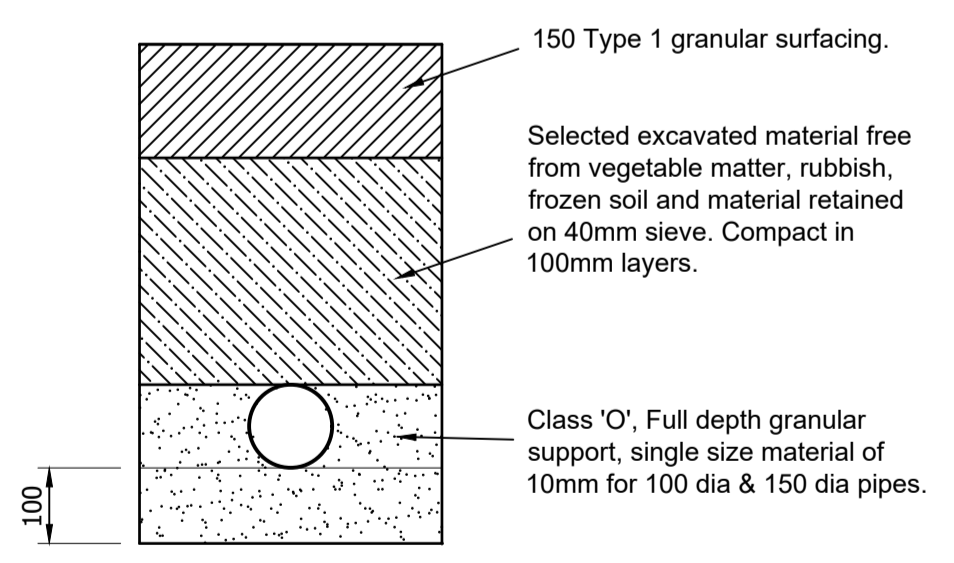
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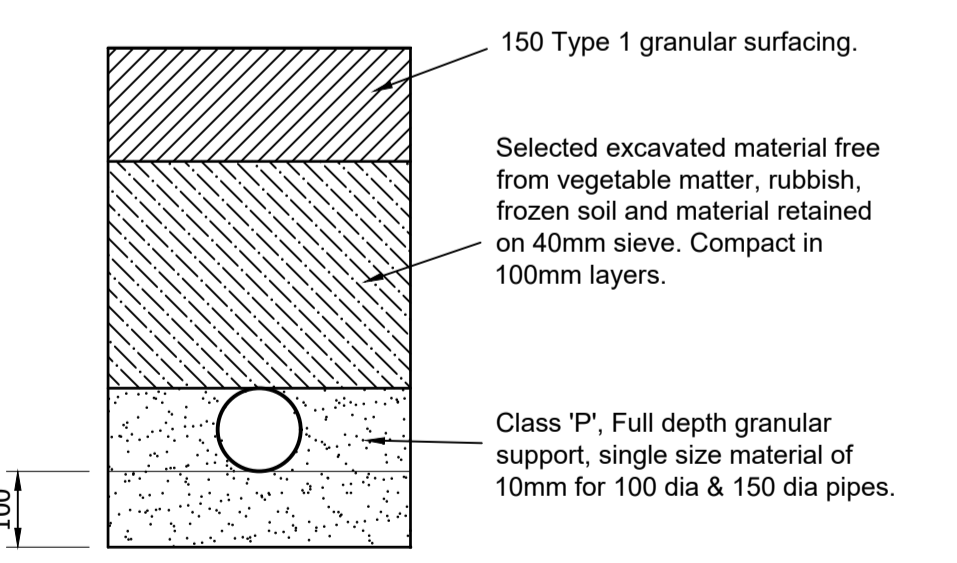
TYPICAL MANHOLE DETAIL-TYPE 2
(MAX DEPTH FROM C.L. TO SOFFIT OF PIPE 3000MM)



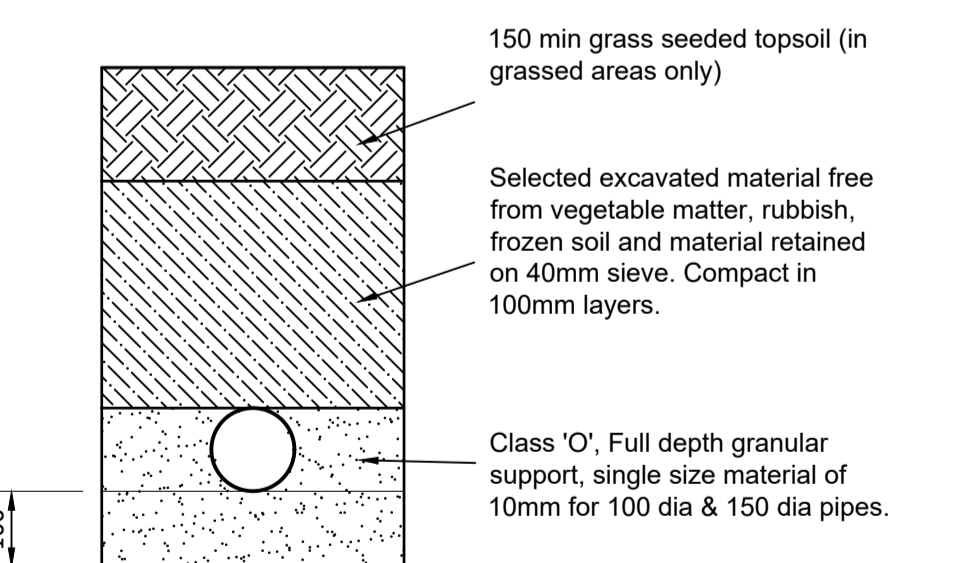
BEDDING FOR FLEXIBLE PIPES LESS THAN 900mm COVER UNDER ROADS
1:10



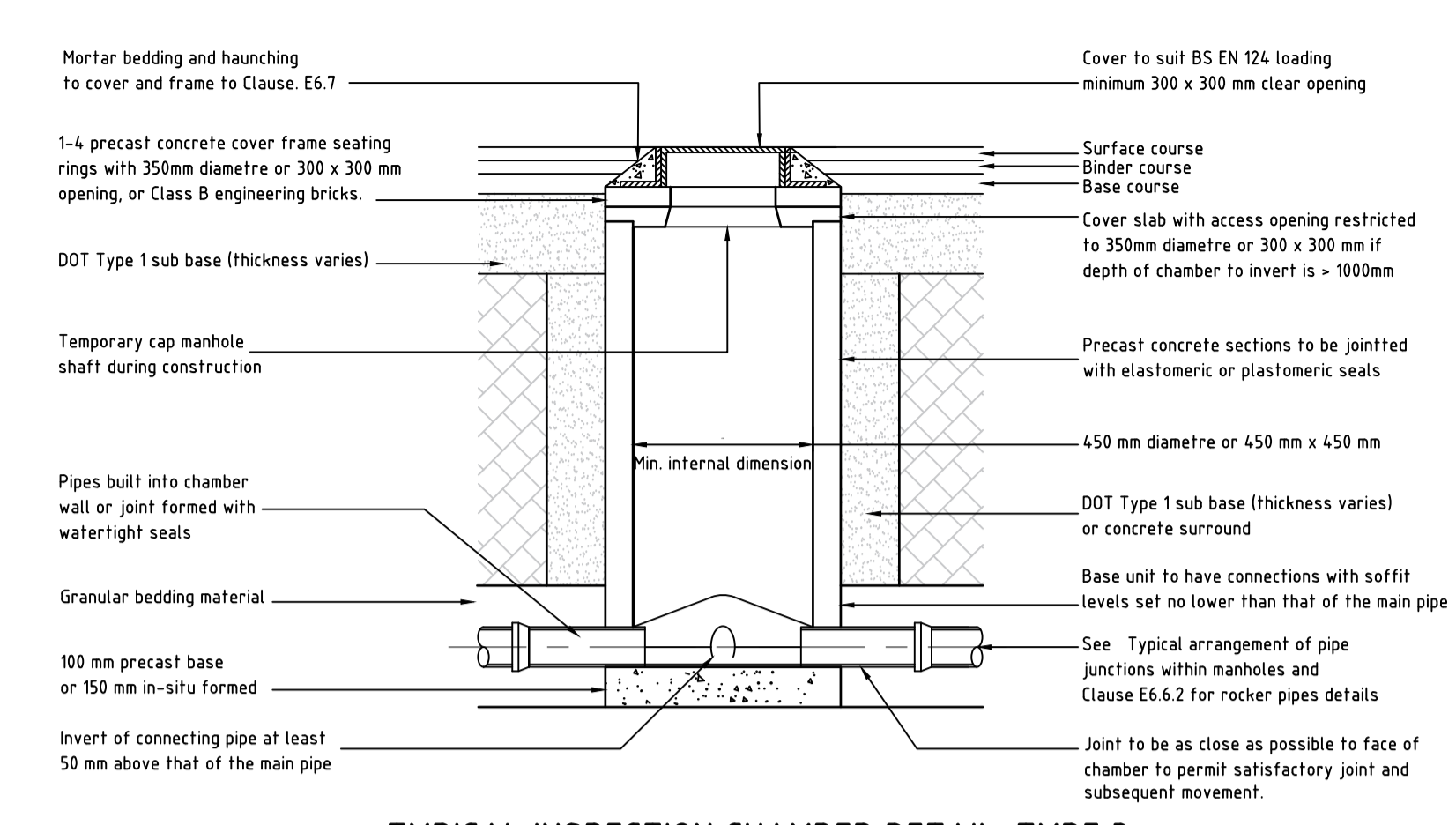
BEDDING FOR FLEXIBLE PIPES 900-1200mm COVER UNDER ROADS
1:10



BEDDING FOR FLEXIBLE PIPES 1200-2000mm COVER UNDER ROADS
1:10

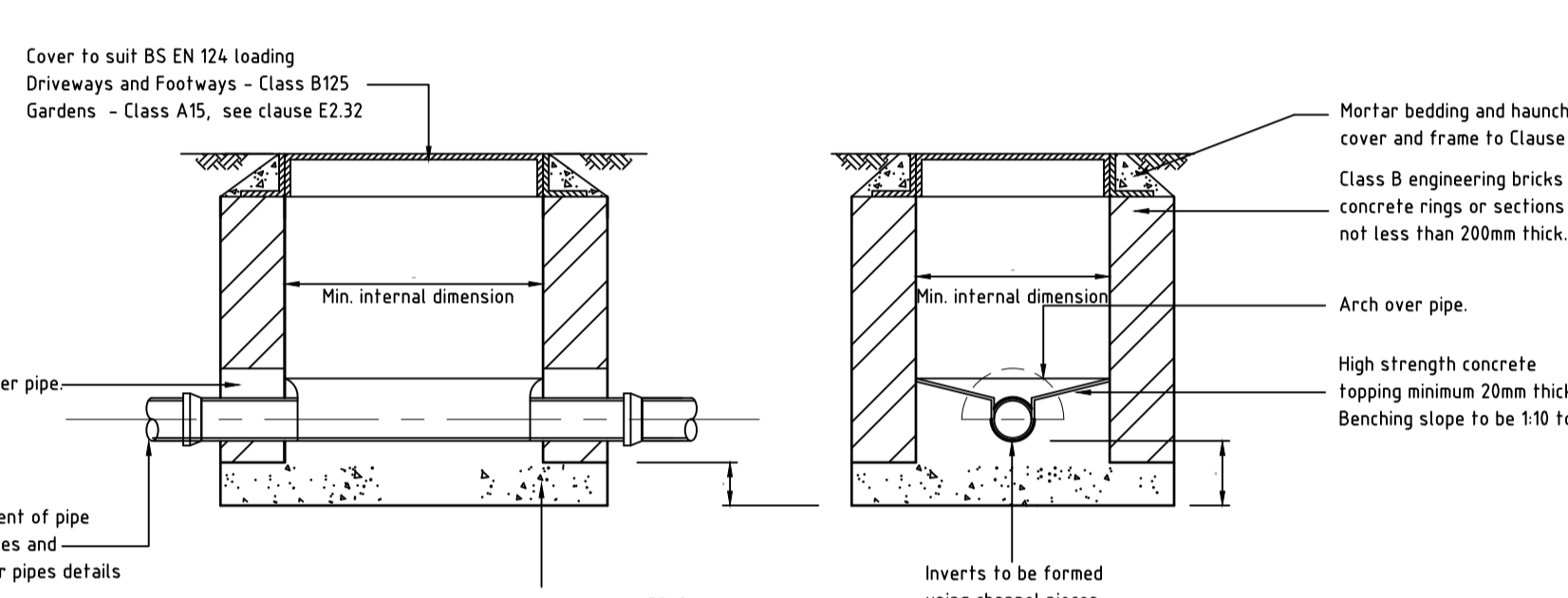


BEDDING FOR FLEXIBLE PIPES UP TO 1500mm DEEP NOT UNDER ROADS
1:10



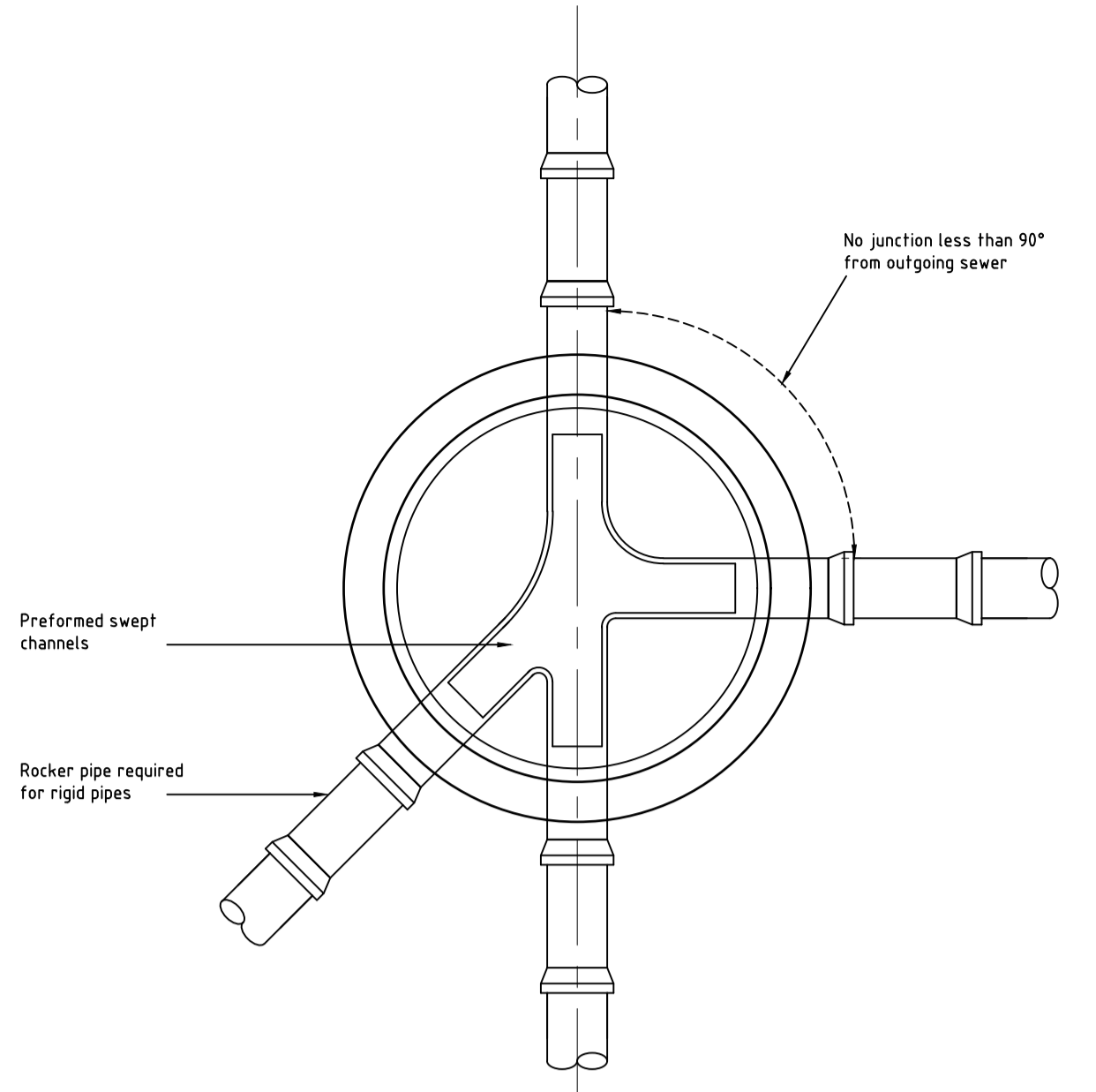
TYPICAL INSPECTION CHAMBER DETAIL-TYPE 3
(MAX DEPTH FROM C.L. TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3000MM, NON-ENTRY)
NOTE: Where the access chamber is in the highway the Highway Authority can have specific requirements

ADOPTABLE DRAINAGE INSPECTION CHAMBERS / MANHOLES
1:25



INSPECTION CHAMBER DETAIL - TYPE 4
(MAX DEPTH FROM C.L. TO SOFFIT OF PIPE 1m, no entry)

NOTE: Internal dimensions of manhole with minimum internal dimensions 450x600mm but manhole width should be increased for pipes larger than 150mm dia. to give 150mm benching each side with the brickwork/masonry units corbelled down to suit cover.
The use of precast rectangular concrete manhole units with 150mm grade GEN3 concrete surround (designed to BRE Special Digest 1 Concrete in Aggressive Ground) is permitted.



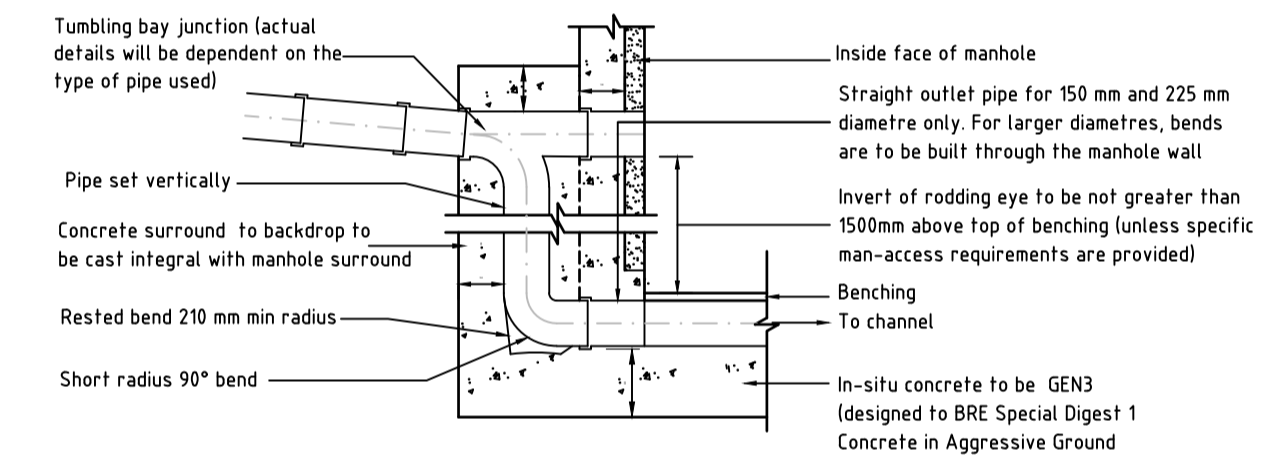
TYPICAL ARRANGEMENT FOR PIPE JUNCTIONS WITHIN MANHOLES

Alternative manhole base layouts to Figure B.20
Scale 1:25

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 DIAMETRE (MM)	MAXIMUM EFFECTIVE LENGTH (MM)
150 - 600	600
601 - 750	1000
over 750	1250

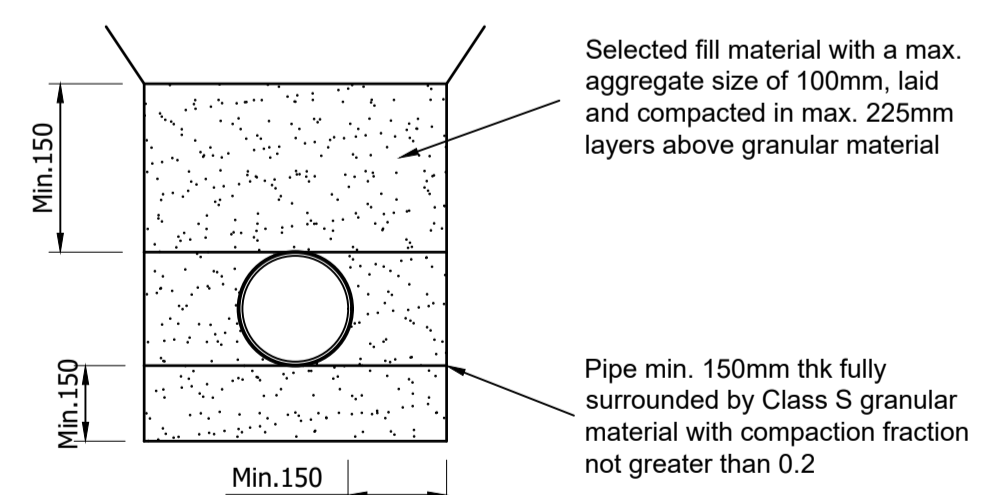
All pipes entering the bottom of the manhole to have soffits level.



VERTICAL BACKDROP DETAIL

Scale 1:25

TYPICAL PRECAST CONCRETE CHAMBER SHOWN SIMILAR DETAIL FOR BRICK CONSTRUCTION.



DETAIL FOR BEDDING OF VITRIFIED CLAY PIPES OF ADOPTABLE FOUL DRAINAGE & STORM CONNECTION TO MH9054
1:10

Date	By	Revision	QA'D	Chk'd	Ref
PRELIMINARY					

Cowan Consultancy
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 3 Turnberry House, 4400 Parkway, Whiteley, Fareham, Hampshire, PO15 7FJ
 Tel: 01489 577488, Fax: 01489 579873, consultants@cowanconsult.co.uk, www.cowanconsult.co.uk

Client: IMPERIAL HOMES SOUTH LTD.

Project: DEVELOPMENT AT BITTERNE PARISH CHURCH WHITES LANE, BITTERNE, SOUTHAMPTON

Title: INFRASTRUCTURE STORM & FOUL WATER DRAINAGE STANDARD DETAILS (2/2)

Date	MAY 2023	Scale	AS SHOWN @ A1	Dr. No.	
Drawn	HS	Chk'd	TB	QA'D	TB
					456146/205P