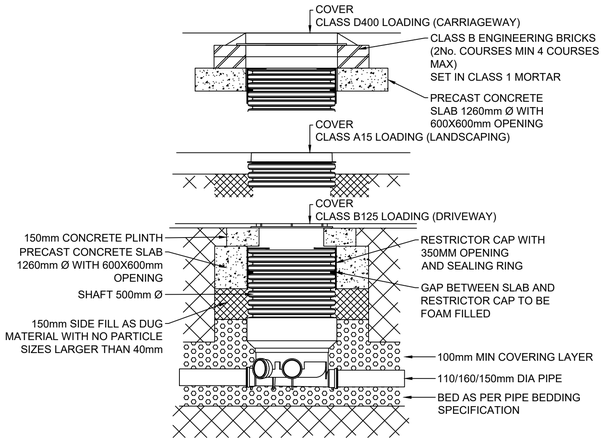
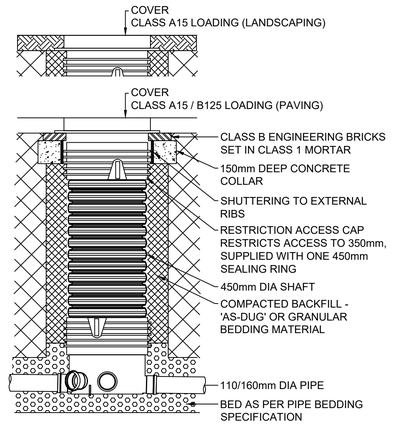
FOUL NON MAN-ENTRY INSPECTION CHAMBER TYPE K

450mm Ø SHAFT FOR USE WITH 110mm, 160mm OR 150mm PIPES
MAX DEPTH FROM COVER LEVEL TO INVERT OF PIPE 3.0m
(NOT TO SCALE)

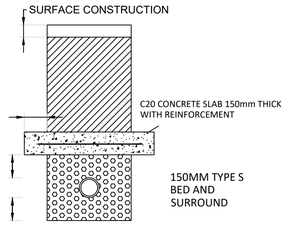


SURFACE WATER NON MAN-ENTRY INSPECTION CHAMBER TYPE G

450mm Ø SHAFT FOR USE WITH 110mm, 160mm OR 150mm (VIA ADAPTOR) PIPES
MAX DEPTH FROM COVER LEVEL TO INVERT OF PIPE 3.0m
(NOT TO SCALE)

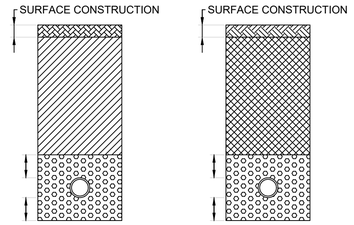


DRAINS WITH CONCRETE PROTECTION



APPLICABLE UNDER ROADS / SERVICE YARDS AND WHERE DRAINS HAVE LESS THAN 1200mm COVER ALSO APPLICABLE UNDER LANDSCAPE AND PRIVATE DRIVE AREAS WHICH HAVE LESS THAN 600mm COVER.

DRAINS WITH FLEXIBLE (TYPE S) BED AND SURROUND



APPLICABLE UNDER ROADS / SERVICE YARDS AND WHERE DRAINS HAVE MORE THAN 1200mm COVER ALSO APPLICABLE UNDER LANDSCAPE AND PRIVATE DRIVE AREAS WHICH HAVE MORE THAN 600mm COVER

TYPE S
APPLICABLE UNDER FOOTPATHS VERGES AND OTHER NON TRAFFICKED AREAS WHERE DRAINS HAVE MORE THAN 600mm COVER.

KEY:

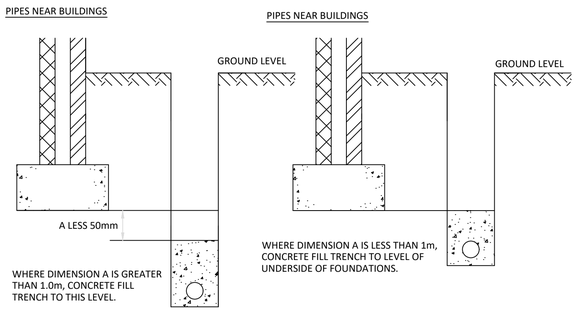
- HIGHWAY CONSTRUCTION
- SELECTED EXCAVATED MATERIAL SHALL BE PLACED IN NO GREATER THAN 225mm LAYERS COMPLYING WITH THE CIVIL ENGINEERING SPECIFICATION WITHIN SEWERS OF ADOPTION 6TH EDITION REF 5.3.4
- GRANULAR BEDDING AND SURROUND MATERIAL 20mm NOMINAL SINGLE SIZE
- LANDSCAPE AREA
- CONCRETE SURROUND TO BE GEN3 C20
- GRANULAR SUB-BASE MATERIAL (TYPE 1) DEPOSITED IN LAYERS NOT EXCEEDING 225mm IN UNCONSOLIDATED LAYERS AND THEN FULLY COMPACTED UNLESS STATED.

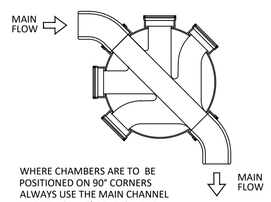
MINIMUM TRENCH WIDTHS (EN 1610)	
PIPE DIAMETER	SUPPORTED TRENCH
UP TO 255mm	OUTSIDE PIPE DIAMETER + 400mm
225mm TO 350mm	OUTSIDE PIPE DIAMETER = 500mm
350mm TO 700mm	OUTSIDE PIPE DIAMETER + 700mm
700mm TO 1200mm	OUTSIDE PIPE DIAMETER + 850mm
OVER 1200mm	OUTSIDE PIPE DIAMETER + 1000mm

MINIMUM TRENCH WIDTHS (EN 1610)		
PIPE DIAMETER	AGGREGATE	
	NOMINAL SINGLE SIZE	GRADED
UP TO 100mm	10mm	
100mm TO 150mm	10mm 14mm	14mm TO 15mm
150mm TO 300mm	10mm 14mm 20mm	14mm TO 5mm 20mm TO 5mm
300mm TO 550mm	14mm 20mm	14mm TO 5mm 20mm TO 5 mm
OVER 550mm	20mm 40mm	14mm TO 5mm 20mm TO 5mm 40mm TO 5mm

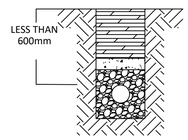
FOUL NON MAN-ENTRY BACK-DROP INSPECTION CHAMBER TYPE L

500mm Ø SHAFT FOR USE WITH 110mm, 160mm OR 150mm PIPES
MAX DEPTH FROM COVER LEVEL TO INVERT OF PIPE 3.0m
(NOT TO SCALE)



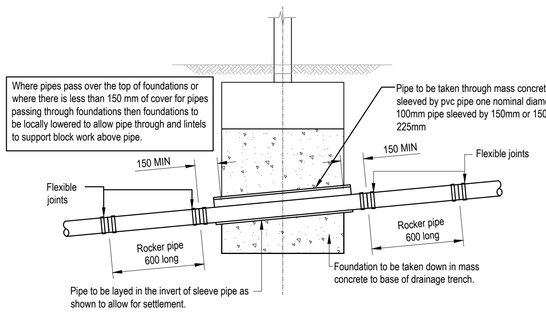


WHERE CHAMBERS ARE TO BE POSITIONED ON 90° CORNERS ALWAYS USE THE MAIN CHANNEL BY FITTING A 45° BEND ON THE INLET AND OUTLET



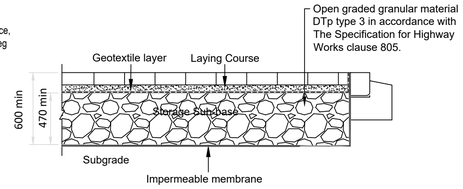
PIPES LAID IN NON TRAFFICKED AREAS, E.G. IN GARDENS WITH LESS THAN 600MM OF COVER, SHOULD BE PROTECTED AGAINST DAMAGE BY PLACING PAVING SLABS OR SIMILAR OVER THEM ACROSS THE WHOLE WIDTH OF THE TRENCH.

A LAYER OF GRANULAR MATERIAL OF 75mm MIN THICKNESS MUST BE LAID BETWEEN PIPES AND PROTECTION



Pipe Through/Under Structural Foundation

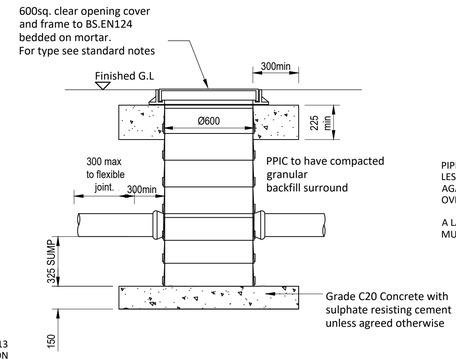
Concrete encase where pipe passes under footing and provide rocker pipes as shown above



Typical Permeable Car Parking Cross Section

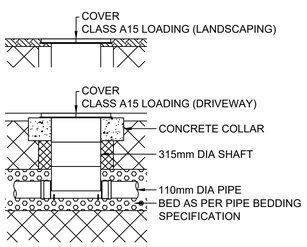
Polypropylene Catchpit Chamber

(For use in landscaped areas and footpaths only)

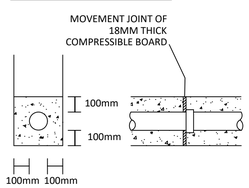


FOUL NON MAN-ENTRY INSPECTION CHAMBER TYPE I

315mm Ø SHAFT FOR USE WITH 110mm PIPES
MAX DEPTH FROM COVER LEVEL TO INVERT OF PIPE 0.6m
(NOT TO SCALE)



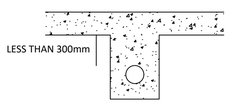
JOINT FOR CONCRETE ENCASED PIPE



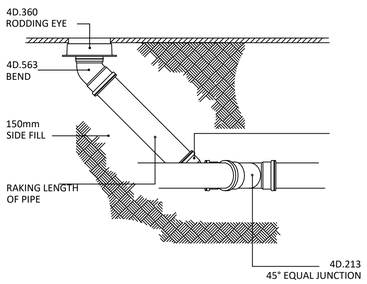
WHERE PIPES ARE SURROUNDED IN CONCRETE TO PROTECT NEARBY FOUNDATIONS, AN 18mm COMPRESSIBLE BOARD. E.G. FIBREBOARD OR POLYSTYRENE SHOULD BE PLACE AROUND THE PIPE AT EACH JOINT.

PIPES LAID AT SHALLOW DEPTHS UNDER BUILDINGS

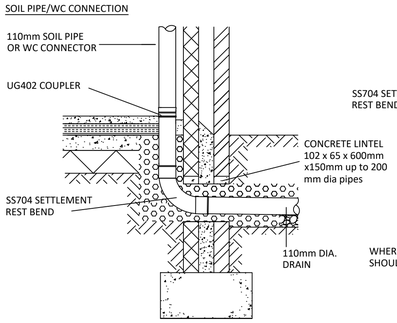
WHERE THE CROWN OF THE PIPE IS WITHIN 300mm OF THE UNDERSIDE OF THE SLAB, THE PIPEWORK SHOULD BE SURROUNDED WITH 150mm CONCRETE AS AN INTEGRAL PART OF THE FLOOR SLAB.

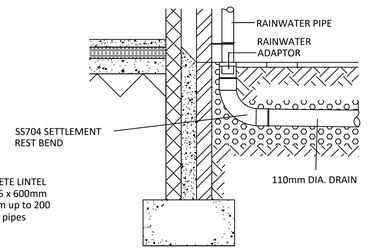


RODDING EYE



SOIL PIPE/WC CONNECTION

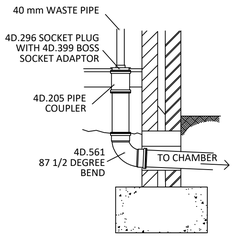




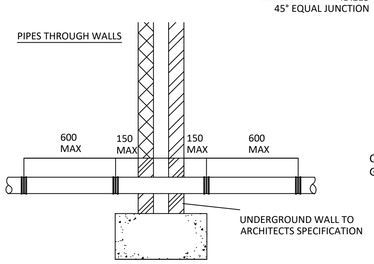
WHERE A COMBINED DRAINAGE SYSTEM IS BEING USED, A TRAPPED GULLY SHOULD BE USED AT THE BASE OF THE RAINWATER PIPE.

EXTERNAL RAINWATER PIPE CONNECTION

INTERNAL WASTE PIPE CONNECTION

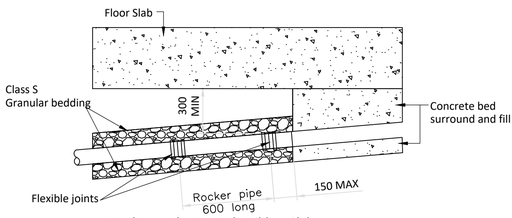


PIPES THROUGH WALLS



SHORT LENGTH OF PIPE BEDDED IN WALL WITH JOINTS WITHIN 150mm OF EACH WALL FACE.

ADJACENT ROCKER PIPES OF 600mm MAX.LENGTH WITH FLEXIBLE JOINTS.



Pipeline under Typical Building Slab

Concrete encase where cover to underside of floor slab is less than 300 mm

P01	Preliminary Issue		LS	SJ	11/07/24
REV	AMENDMENT		BY	CHK	DATE

CE — PROJECT EXECUTION CLASS:

All materials supplied in relations to those specified on this drawing are to be CE marked in accordance with the European Union Declaration of conformity

DRAWING STATUS

PRELIMINARY

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Email: mail@c2cconsulting.co.uk Telephone: 01782 980330

CLIENT: Bagnall Heights

PROJECT: Leek Road, Cellarhead

DRAWING TITLE: Drainage Details Sheet (1 of 2)

SHEET SIZE	SCALE	DATE	DRAWN	CHECKED	STATUS
A1	As Shown	11/07/24	LS	SJ	S1

PROJECT No.	DRAWING No.		REV
240363	C2C - XX - XX - DR - C	501	P01

CAD File Path: L:\structures_2_1\PROJECT - QUOTES 2024\240363 - Leek Road\01 DRAWINGS\01 C2C's CAD\240363-C2C-XX-XX-DR-C-501-P01- Drainage Details (Sheet 1 of 2)

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