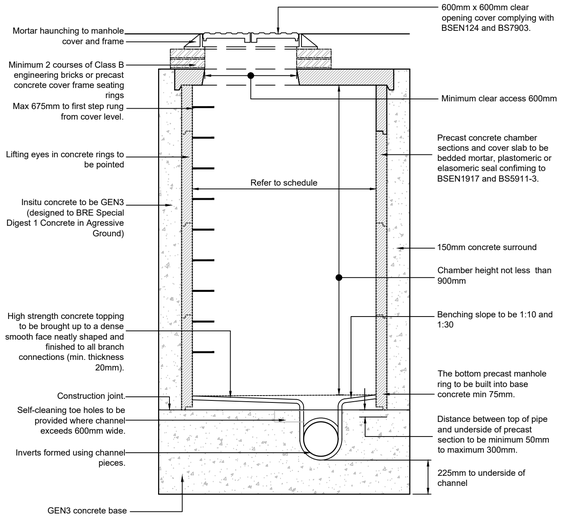
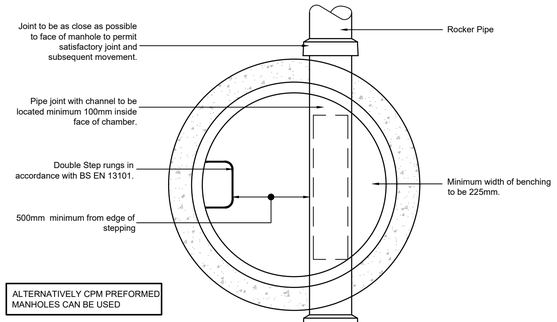
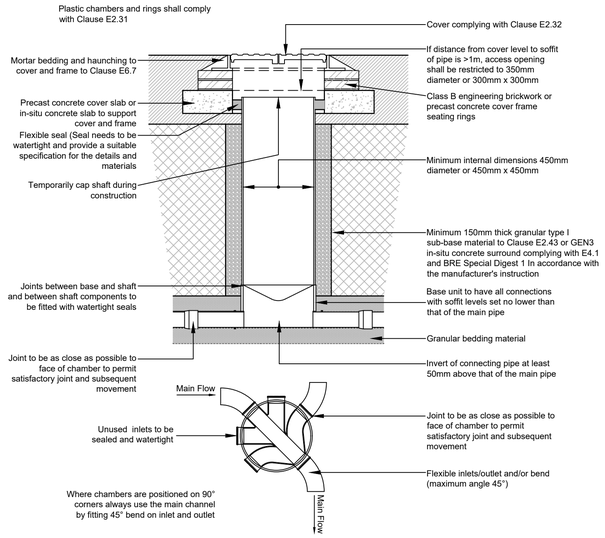




ALTERNATIVELY CPM PREFORMED MANHOLES CAN BE USED

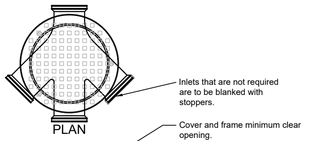
TYPICAL MANHOLE DETAIL - TYPE 2

Maximum depth from cover level to pipe soffit 3.0m
(Scale 1:20)

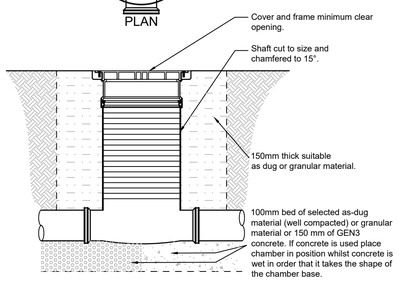


TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

Depth from cover level to soffit of pipe up to 2m
Flexible material construction for use in areas subject to vehicle loading
(Scale 1:20)



PLAN

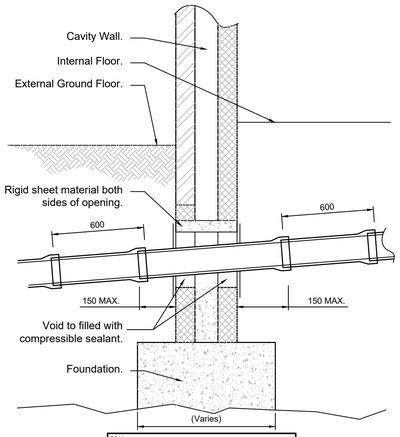


SECTION

POLYPROPYLENE SHALLOW INSPECTION CHAMBER DETAIL (250Ø)

(Scale 1:20)

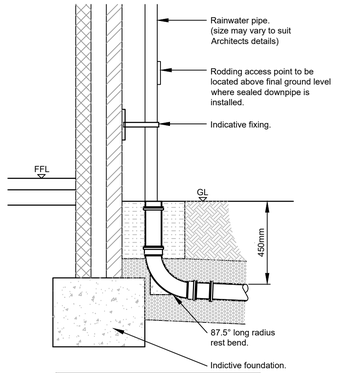
Depth to invert of less than 600mm.



Note:
Arched or lintelled opening to give 50mm min clearance all around the pipe. mask opening both sides with rigid sheet material to prevent overspill of fill or entry for vermin.

TYPICAL SECTION PIPE PASSING THROUGH WALL PIPE THROUGH LINTELLED OPENING

(Scale 1:20)



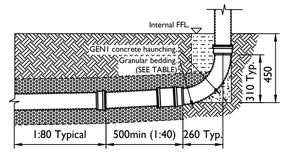
Rainwater pipes 75mm size shall be connected to a minimum 100mm diameter drain below ground.

Rainwater pipes 100mm size shall be connected to a minimum 150mm diameter drain below ground.

Please refer to plan GA for for further details.

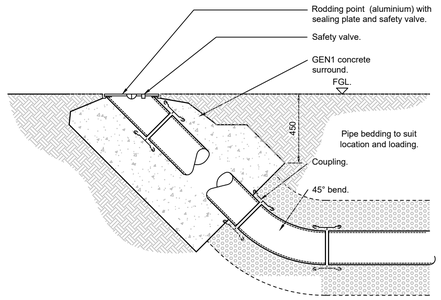
TYPICAL RWP REST BEND DETAIL

(Scale 1:20)



DETAIL OF FOUL REST BEND

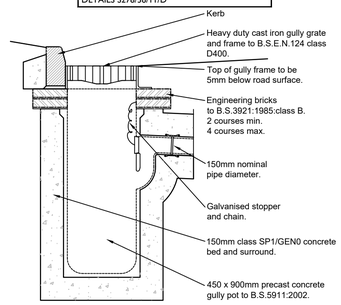
(Scale 1:20)



DETAIL OF RODDING EYE

(Scale 1:20)

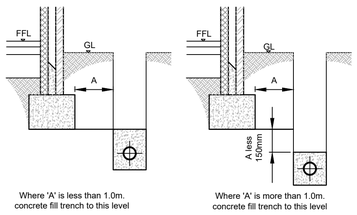
DO NOT USE THIS DETAIL FOR ADOPTABLE ROAD GULLIES - REFER TO WSCC STANDARD DETAILS S278/38/11/D



Alternatively a 450Ø x 900 deep plastic trapped road gully may be used surrounded with 150mm concrete. Plastic gullies should be weighted down until concrete surround has set. (Details to be confirmed by relevant Local Authority)

TYPICAL ROAD GULLY

(Scale 1:20)

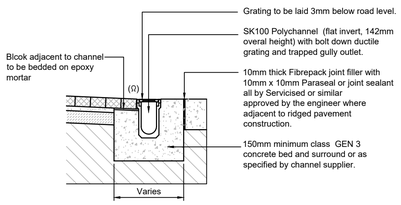


Where 'A' is less than 1.0m. concrete fill trench to this level

Where 'A' is more than 1.0m. concrete fill trench to this level

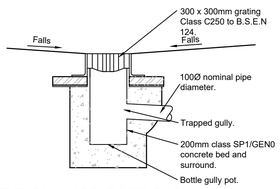
DETAIL OF PIPE RUNS NEAR BUILDINGS

(Scale 1:20)



TYPICAL CHANNEL DRAIN

(Scale 1:20)



TYPICAL YARD (BOTTLE) GULLY

(VEHICULAR LOADING)
(Scale 1:20)

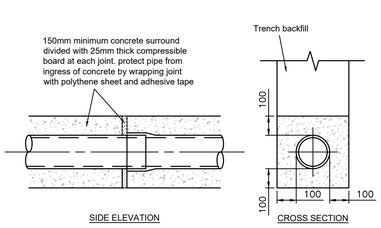
PERMITTED PIPE/BEDDING TYPES		
	DEPTH OF COVER BELOW ROADS	
	1.2m-3.5m	LESS THAN 1.2m
PIPE BEDDING	TYPE S	TYPE Z
PIPE TYPE	CONCRETE CLASS M TO BS:5911 OR VITRIFIED CLAY TO BS:65, WITH FLEXIBLE JOINTS SUPER STRENGTH CLASS FOR 225 AND 300mmØ. EXTRA STRENGTH CLASS FOR ALL OTHER SIZES.	CONCRETE CLASS M TO BS:5911 OR VITRIFIED CLAY TO BS:65, WITH FLEXIBLE JOINTS SUPER STRENGTH CLASS FOR 225 AND 300mmØ. EXTRA STRENGTH CLASS FOR ALL OTHER SIZES.

Minimum Dimensions for Access Fittings and Chambers						
	Internal Sizes				Cover Sizes	
Type	Depth to invert (m)	Size of largest pipe (DN)	Length x Width (mm)	Circular (mm)	Length x Width (mm)	Circular (mm)
Rodding Eye	As Drain but Minimum 100mm					
Shallow Access Small Large	0.6 or less	150	150x100 225x100	150	150x100 225x100	150
Inspection Chamber	0.6 or less 1.2 or less 1.2 - 3.0	150	450x450 450x450	190 450 450	450x450 300x300	190 450 350
Manhole	1.5 or less	150 225 300 >300	675x750 675x1200 675x1200 DN+450 x1800	1200 1200 1200 The larger of 1800 or (DN+450)	675x750 1200x675 1200x675 1200x675	n/a n/a n/a n/a
	Over 1.5	225 300 375-450 >450	1200x1000 1200x1075 1350x1225 DN+775 x1800	1200 1200 1200 The larger of 1800 or (DN+775)	600x600 600x600 600x600 1200x675	600 600 600 600
Manhole Shaft	Over 2.7		900x840	900	600x600	600

BUILDING REGULATIONS MINIMUM DIMENSIONS FOR MANHOLES

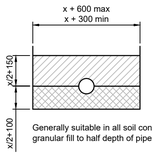
(Not to Scale)

This plan complies with the Building Regulations 2002 Section 'H' - Drainage & Waste Disposal.



CONCRETE BED AND SURROUND TO PIPES UNDER DRIVES AND GARDENS

Depth of cover less than 0.35m under private gardens and 0.5m under private drives
(Scale 1:20)



Generally suitable in all soil conditions granular fill to half depth of pipe

LEGEND:

Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber frozen material and vegetable matter.

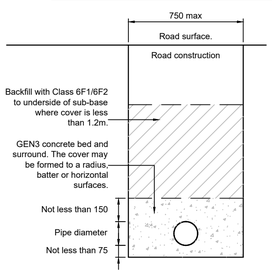
Granular material: should conform to BS 882:1983 table 4 or BS8301:1985 Appendix D. Compaction fraction > 0.3 for class N > 0.2 for class F and B.

'x' - Denotes external pipe diameter.

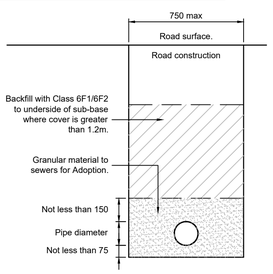
PIPE BEDDING DETAIL UNDER DRIVES AND GARDENS

Min depth of cover 0.35m under private gardens and 0.5m under private drives
(Scale 1:20)

DO NOT USE THIS DETAIL FOR ADOPTABLE PIPE BEDDING - REFER TO WSCC STANDARD DETAILS S278/38/33/A



CLASS 'Z' PIPE BEDDING
(Depth of cover less than 1.2m)



CLASS 'S' PIPE BEDDING
(Minimum depth of cover 1.2m)

PIPE BEDDING DETAILS (UNDER HIGHWAYS)

(Scale 1:20)

1:20 @ A1
1:40 @ A3
0 200 400 600 800 1000 1200 1400 1600 1800 2000 mm

NOTES

A1

1. This drawing is to be read in conjunction with all other Bright Plan Civils drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
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3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
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Rev.	Amendments	Date
A	Annotations Updated	17/05/2021
-	Original Issue	06/04/2021

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Drawing Status: FOR APPROVAL

Client: Arun District Council

Project: Canada Road, Arundel BN18 9HZ

Drawing Title: Construction Details Sht 1

Scale	Date	Drawn By	Checked By
As Shown	01/04/21	MJA	MJA

Drawing No. D1955-400 | Rev. A

ARUN DISTRICT COUNCIL AR/312/21/DOC