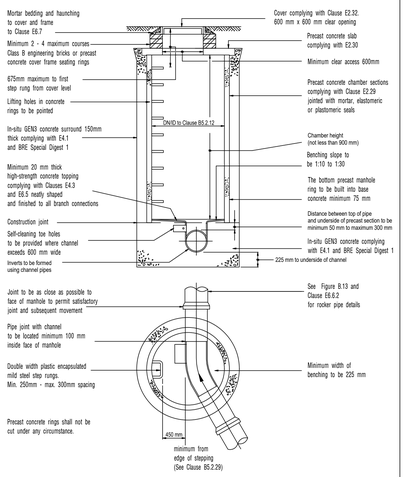
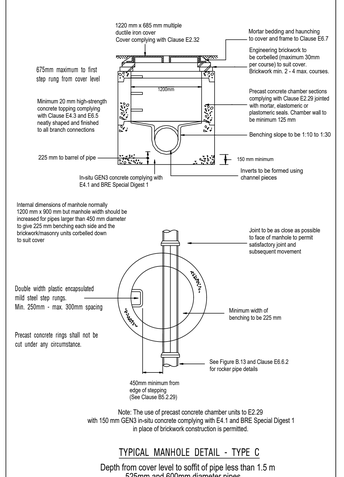
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TYPICAL MANHOLE DETAIL - TYPE B

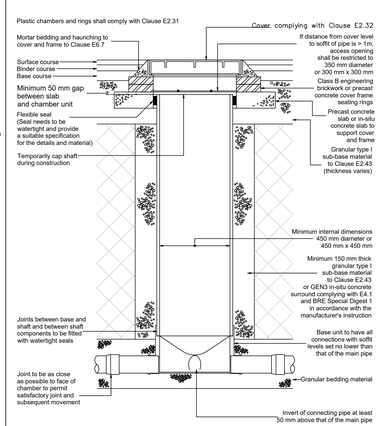
Depth from cover level to soffit of pipe 1.5 m to 3.0 m



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.

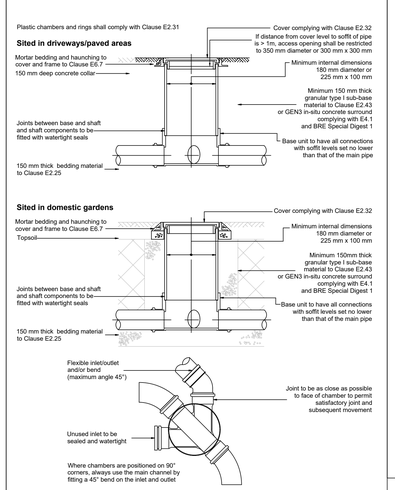
TYPICAL MANHOLE DETAIL - TYPE C

Depth from cover level to soffit of pipe less than 1.5 m
525mm and 600mm diameter pipes.



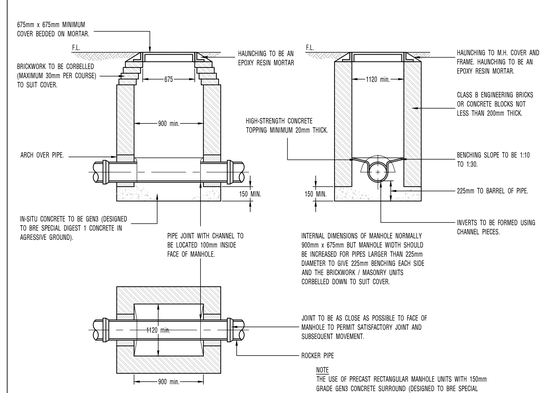
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

Depth from cover level to soffit of pipe up to 2 m
Flexible material construction for use in areas subject to vehicle loading



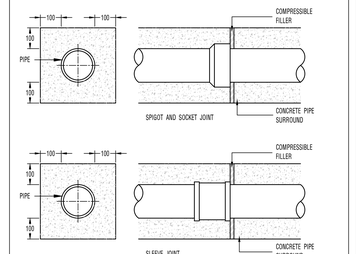
TYPICAL INSPECTION CHAMBER DETAIL - TYPE E

Depth from cover level to soffit of pipe up to 2 m
Flexible material construction

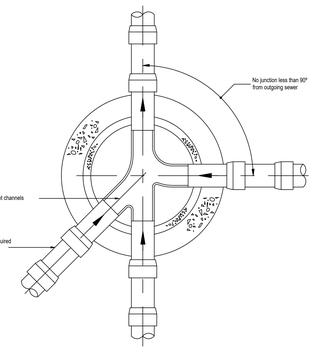


TYPICAL MANHOLE DETAIL - TYPE C1

Depth from cover level to soffit of pipe less than 1.5 m
525mm and 600mm diameter pipes.
Rigid material construction



JOINTS FOR CONCRETE ENCASED PIPES



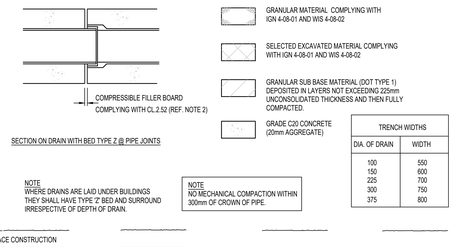
Sectional Plan

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.

TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES

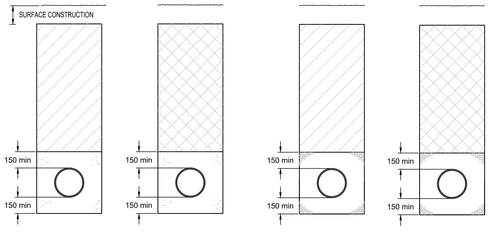


SECTION ON DRAIN WITH BED TYPE Z @ PIPE JOINTS

TRENCH WIDTHS	
DIA. OF DRAIN	WIDTH
100	550
150	600
225	700
300	750
375	800

NOTE
WHERE DRAINS ARE LAID UNDER BUILDINGS THEY SHALL HAVE TYPE 'Z' BED AND SURROUND IRRESPECTIVE OF DEPTH OF DRAIN.

NOTE
NO MECHANICAL COMPACTION WITHIN 300mm OF CROWN OF PIPE.



DRAINS WITH CONCRETE BED AND SURROUND

TYPE 'Z'

APPLICABLE UNDER DRIVEWAYS, PARKING ETC WHERE DRAINS HAVE LESS THAN 900mm COVER.

TYPE 'Z'

APPLICABLE UNDER GARDENS, FOOTPATHS, ETC. WHERE DRAINS HAVE LESS THAN 350mm COVER.

DRAINS WITH FLEXIBLE BED & SURROUND

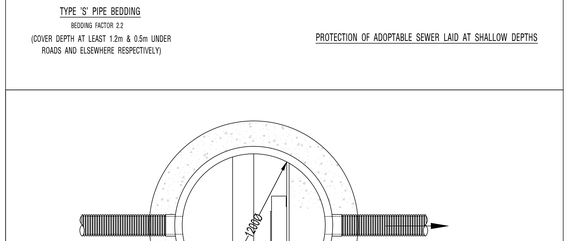
TYPE 'S'

APPLICABLE UNDER DRIVEWAYS, PARKING, WHERE DRAINS HAVE MORE THAN 900mm COVER.

TYPE 'S'

APPLICABLE UNDER GARDENS, FOOTPATHS,ETC. WHERE DRAINS HAVE MORE THAN 350mm COVER.

BEDDING & TRENCH DETAILS FOR PRIVATE DRAINAGE



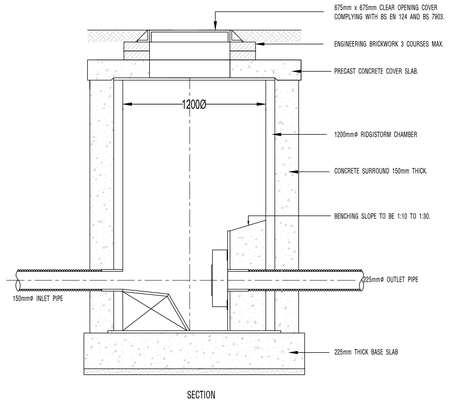
TYPE 'S' PIPE BEDDING

BEDDING FACTOR 2.2

(COVER DEPTH AT LEAST 1.2m & 0.5m UNDER ROADS AND ELSEWHERE RESPECTIVELY)

PROTECTION OF ADOPTABLE SEWER LAID AT SHALLOW DEPTHS

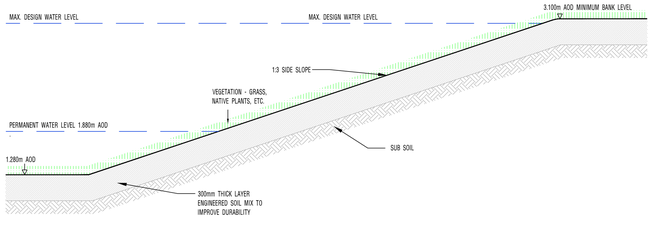
PLAN



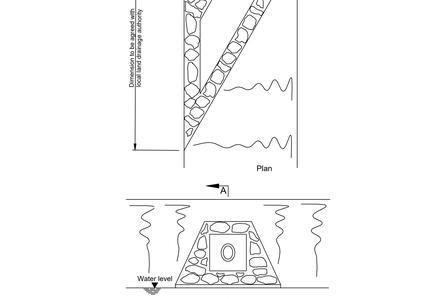
SECTION

VORTEX FLOW CONTROL CHAMBER

SUPPLIED BY POLYPIPE CIVILS LTD

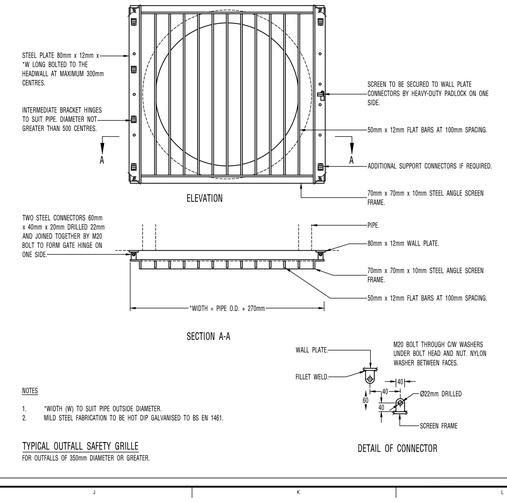


ATTENUATION POND BASIN PART SECTION



Note: Stone pitching to be smooth, hard and durable

TYPICAL DETAIL OF OUTFALL TO ATTENUATION POND & DITCH



NOTES

1. *WIDTH (W) TO SUIT PIPE OUTSIDE DIAMETER.
2. MILD STEEL FABRICATION TO BE HOT DIP GALVANISED TO BS EN 1461.

TYPICAL OUTFALL SAFETY GRILLE

FOR OUTFALLS OF 350mm DIAMETER OR GREATER.

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-	06.07.21	First issue.	DM	SJB

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drawing title:
Drainage Construction Details

scale:	status:
N.T.S. (A0)	Planning

job number:	drawing number:	revision:
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