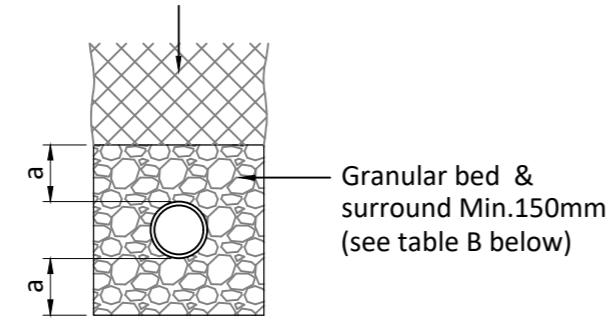


Backfill to comply with earthwork specification. Backfill to be approved selected material. Layer not to exceed 250mm thick. Specification to suit MCHW Vol 1 Series 600 (Earthworks)



DIMENSION a :- in rock or material containing hard spots sleeved jointed pipes - 150mm min. socketed pipes - 200mm min. elsewhere sleeved jointed pipes - 150mm min socketed pipes - 150mm min.

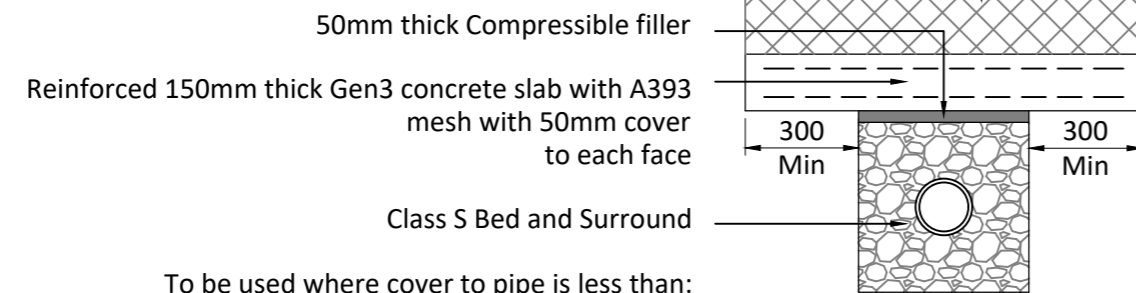
PIPE NOMINAL BORE (DN)	MAX. PARTICLE SIZE (mm)	CLASS OF BEDDING	SUITABLE IMPORTED GRANULAR MATERIALS
100 dia	10	S	10mm NOMINAL SINGLE-SIZED OR 10mm TO 5mm GRADED.
OVER 100 TO 150 dia	15	S	max 14mm NOMINAL SINGLE-SIZED OR 14mm TO 5mm GRADED.
OVER 150 TO 600dia	20	S	max 20mm NOMINAL SINGLE -SIZED OR 20mm TO 5mm GRADED.
OVER 600	40	S	max 40mm NOMINAL SINGLE-SIZED OR 40mm TO 5mm GRADED.

TABLE B.
CLASS 'S' PIPE BEDDING DETAIL

Nominal Diameter (mm)	Maximum Effective Length (m)
150-600	0.6
601-750	1.00
750+	1.25

TABLE E13
Rocker Pipe Length

Under all hardstanding areas backfill with 40mm down graded stone , hard- core. elsewhere (ie soft landscaped areas) backfill with approved selected material.



To be used where cover to pipe is less than:
1.2m in highways
0.9m in driveways
0.6m in landscaped areas

CONCRETE SLAB PROTECTION TO ADOPTABLE DRAINAGE

Kirklees Highways Notes

All oversize precast concrete manhole circular vertical units and cover slabs including all ancillary concrete products are in full compliance with "BS EN 1917" & "BS 5911-3+A1"

Precast concrete manhole units including their PCC cover slabs shall comply with the relevant provisions of BS EN 1917 and BS 5911-3 and shall be manufactured from concrete with a Design Chemical Class DC-4 unless satisfactory evidence through soil analysis can be provided that a lower class will resist attack from soils and ground water.

All precast concrete manhole shaft units, circular cover, reducing, landing and corbel slabs together with all other ancillary concrete units intended for installation in the highway are marked with "BS EN 1917" & "BS 5911-3" R to confirm that the products represent a manufacture's declaration that their products meet the requirement of these standards.

Cover slabs are to be installed with a minimum of 300 mm cover to finished levels to comply with National Specifications.

Do Not Scale

DESIGN REVIEW

Design review by: ** Checked by: **

Residual hazards:

Health, Safety & Environmental Notes

NOTES

Refer to Drawing 1351 - 'S104 Agreement drainage details - sheet 1' for standard drainage notes

Date	Description	By	Chk	Rev
04.12.25	Updated to suit Kirklees requirements	WD	AT	P2
07.02.25	Initial Issue	WD	AT	P1

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Blackmoorfoot, Huddersfield

S104 - Drainage Details Sheet 3 of 3

Client
Countryside Partnerships

Scale @ A1 1:20 Initial author WD Initial checker AT Approver RP Initial Date Feb 25'

Status S2 Purpose Preliminary Adept Ref 08.24007

Project Number 08.24007-ACE-00-ZZ-D-C-1353 Originator Volume Level Type Role Drg. No. Rev. P2