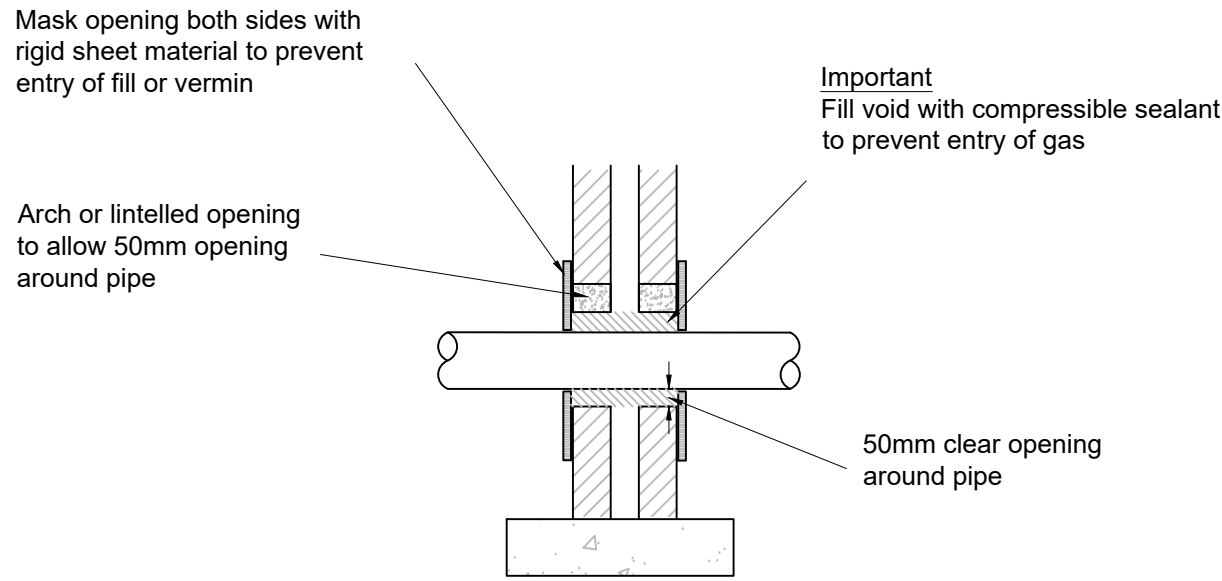
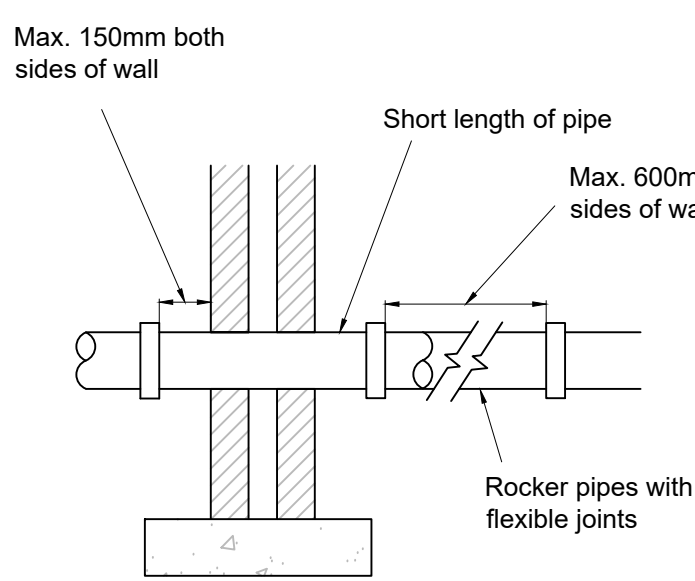
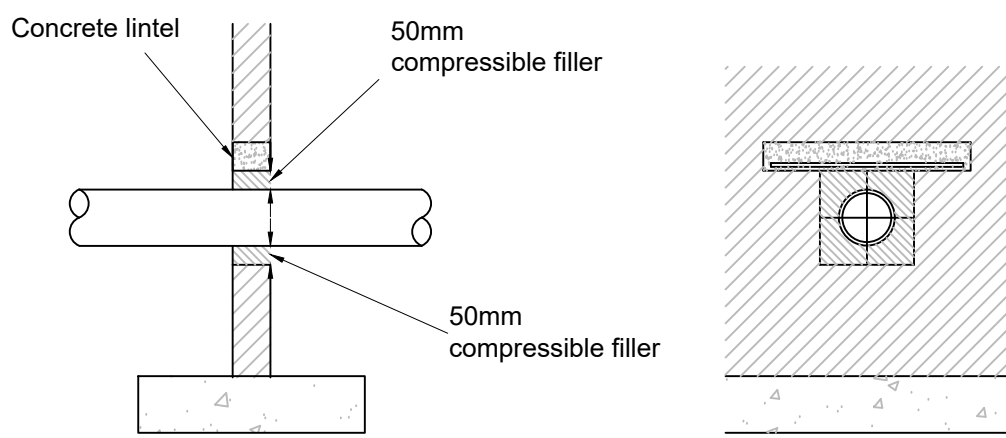




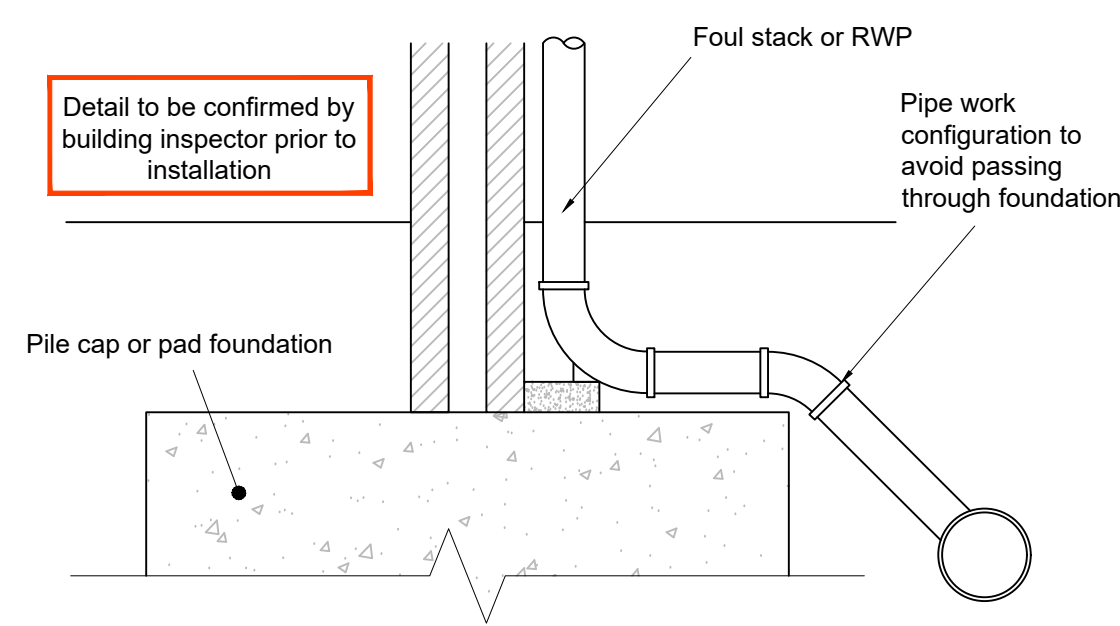
Pipe Penetrating Wall
Detail 1



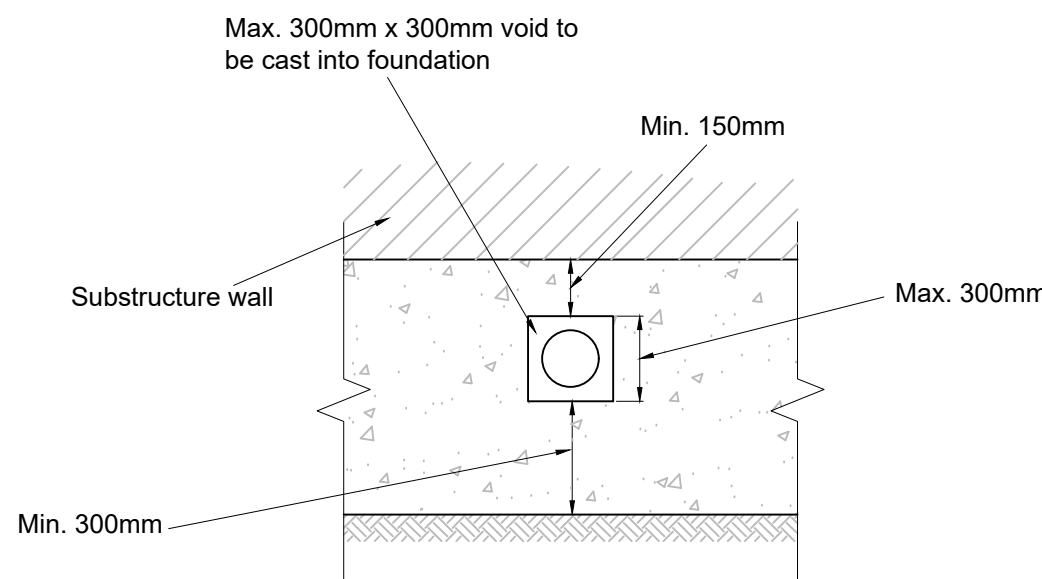
Pipe Penetrating Wall
Detail 2



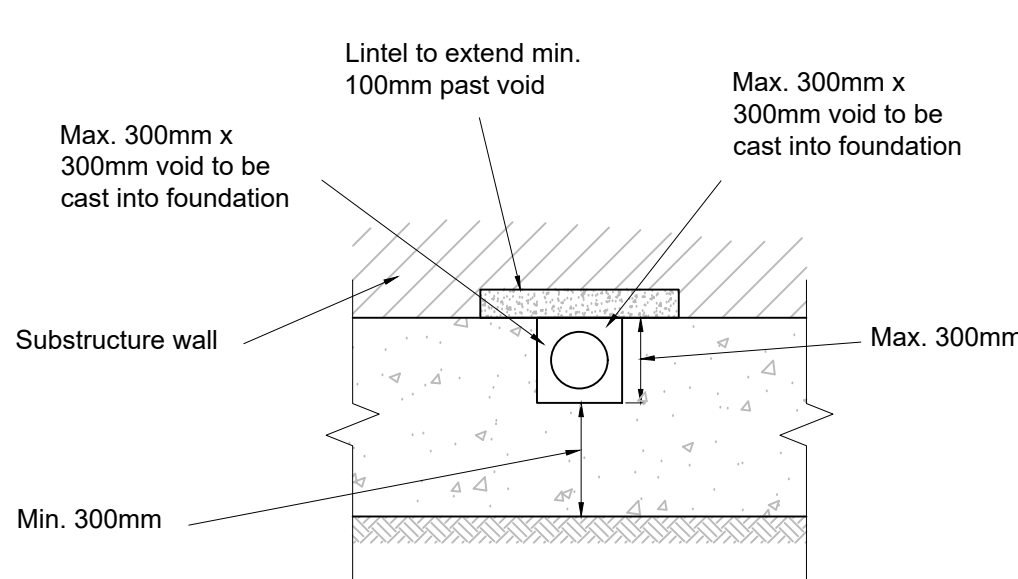
Protection of Pipes Penetrating Single Leaf
Boundary Walls



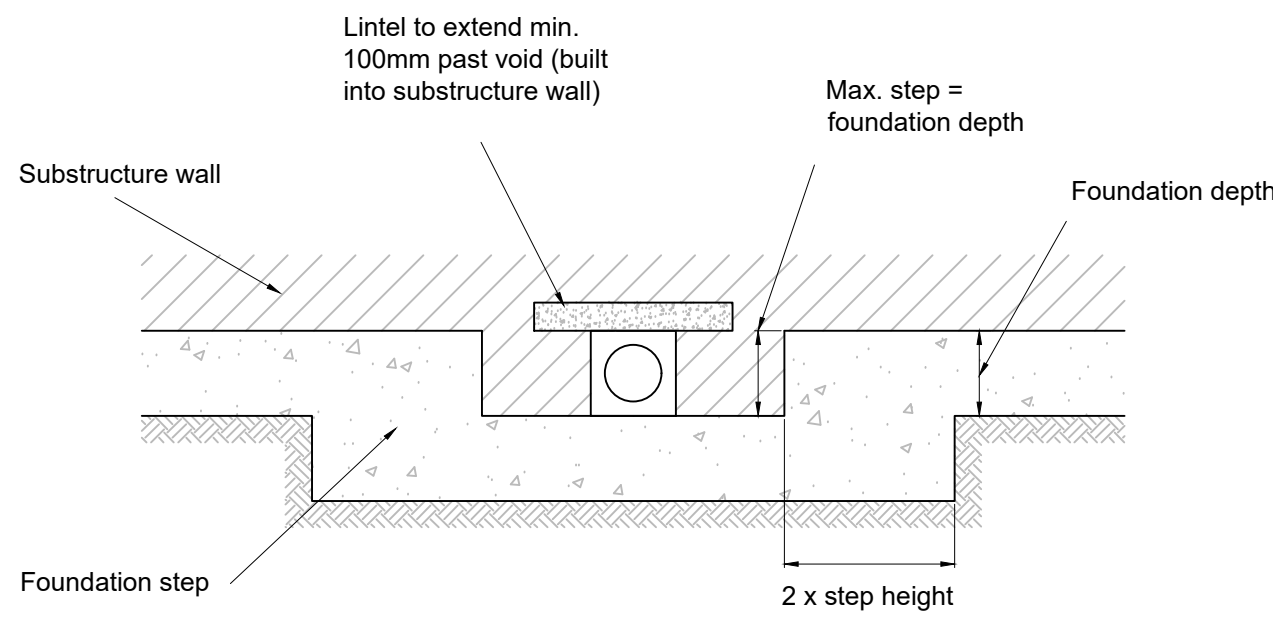
Foul Stack or RWP Connecting Over Foundation



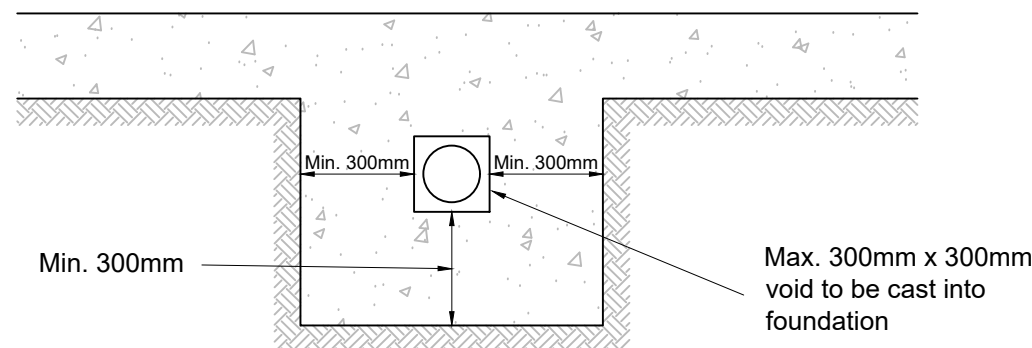
Pipe Passing Through Foundation
Detail 1



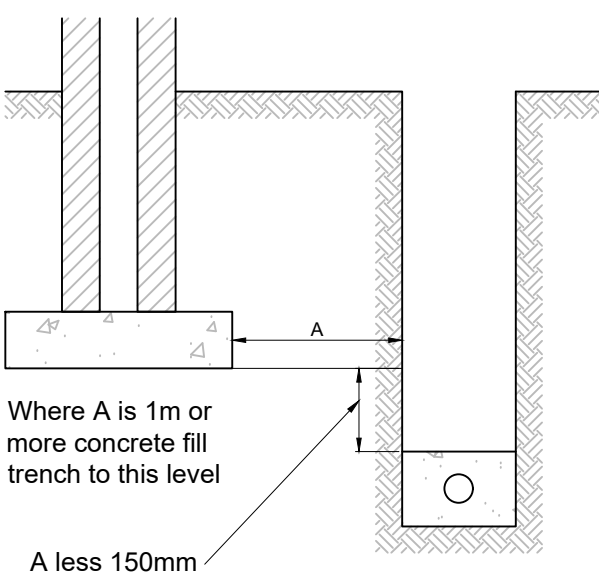
Pipe Passing Through Foundation
Detail 2



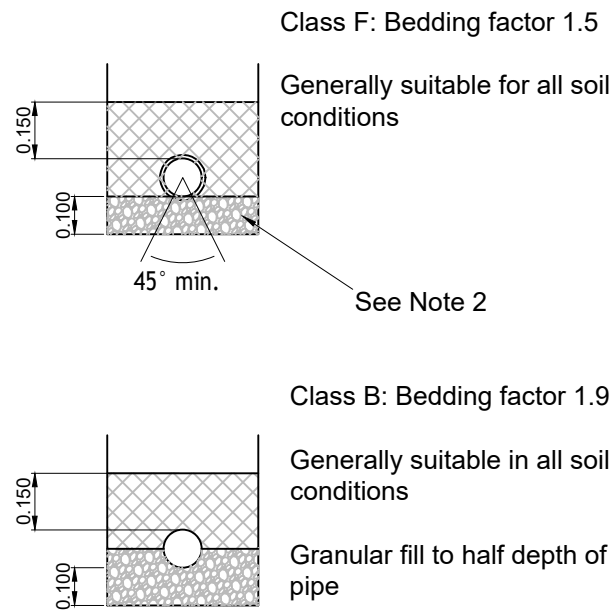
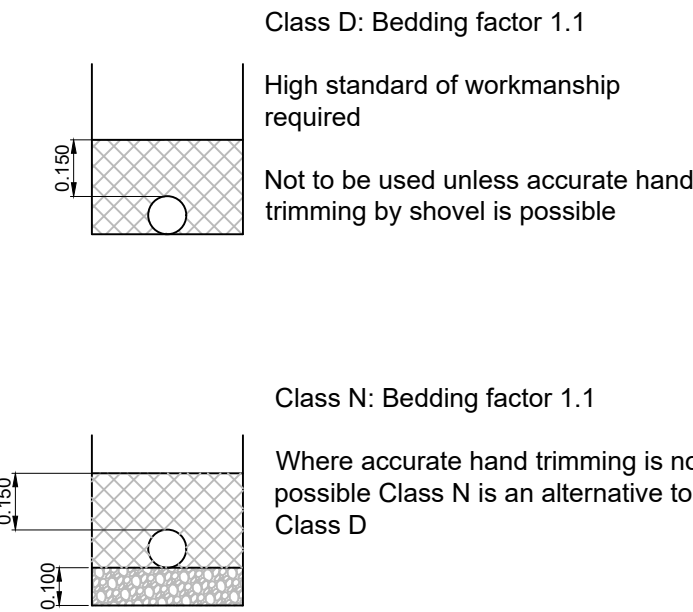
Pipes Passing Below or Through Shallow
Foundation (Standard Foundation stepped
down)



Pipes Passing Below or Through Shallow
Foundation (Foundation Deepened Locally)



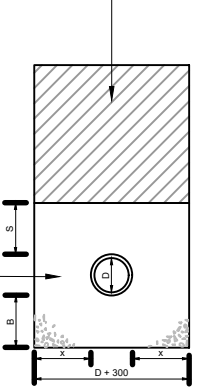
Building Regulations Part 'H' Private Pipe Runs
Near Buildings
Detail 1



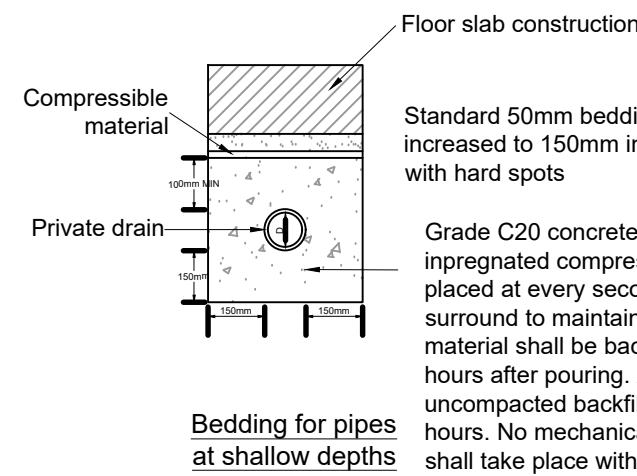
Open ground:
Selected as-dug backfill comprising readily compatible material free from vegetable matter and construction debris.

Paved Areas (Footways / Driveways etc):
Type 1 granular material in accordance with clause 803 of the specification for highway works compacted in layers not exceeding 300mm thickness.

Grade C20 concrete with 25 thick bitumen impregnated compressible board or joint filler, placed at every second joint, for full thickness of surround to maintain pipeline flexibility. No material shall be backfilled for a period of 24 hours after pouring. A protective layer of uncompacted backfill may be placed after 24 hours. No mechanical compacting of backfill shall take place within 72 hours of pouring.



Type 'Z' Bedding

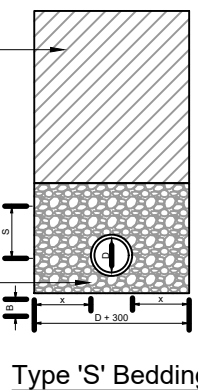


Bedding for pipes
at shallow depths

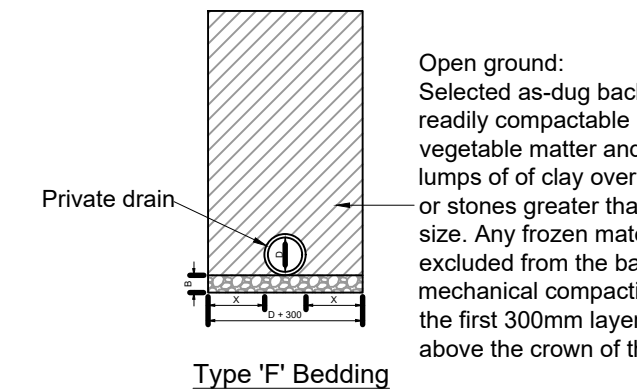
Sizing of Pipe Bedding		
Nominal Bore Of Pipe	Single Size (mm)	Graded (mm)
100 - 125	10	-
150 - 200	10 or 14	14 to 5
225 - 300	10, 14, or 20	14 to 5 or 20 to 5

Open ground:
Selected as-dug backfill comprising readily compactable material free from vegetable matter and construction debris.

Paved Areas (Footways / Driveways etc):
Type 1 granular material in accordance with clause 803 of the specification for highway works compacted in layers not exceeding 300mm thickness.



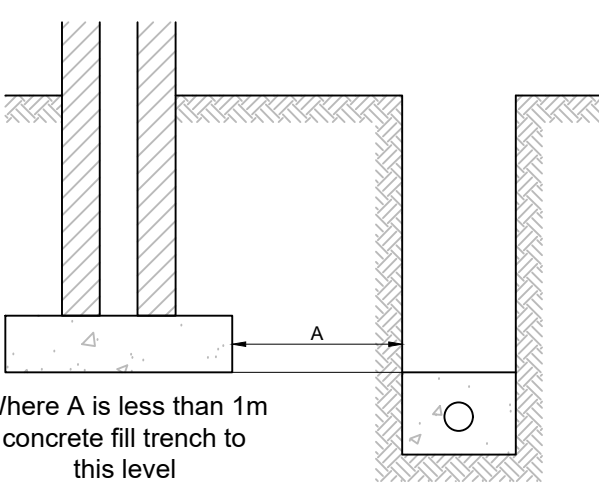
Type 'S' Bedding



Type 'F' Bedding

Notes: Pipe Bedding / Trenches

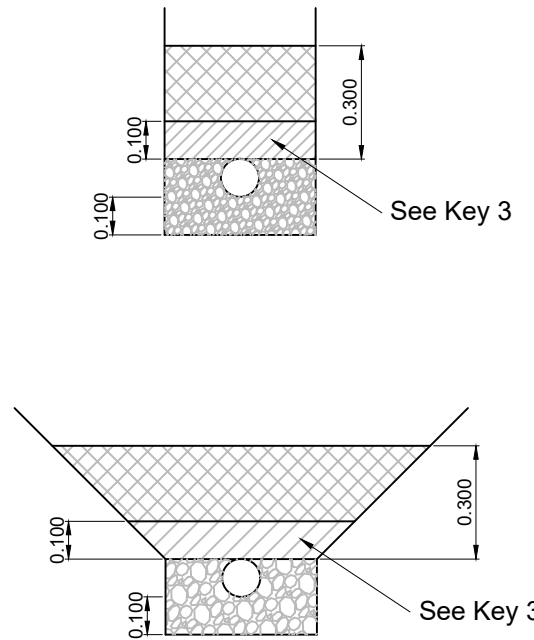
- Trench excavation and pipe bedding shall comply with the requirements of sewers for adoption and the civil engineering specification for the water industry.
- Prior to any excavation the position of all underground services shall be established by utility company plans and marked onsite using detection equipment and hand dug trial pits.
- Trenches shall be excavated and supported as and when necessary.
- To ensure uniform support along the run all hard or soft spots, that may cause differential settlement, shall be removed and replaced with tamped selected as-dug backfill or type 1 granular material.
- The finished trench base shall be true to line and gradient.
- Trench bases shall be free of standing water and have minimal disturbance by foot traffic to reduce damage to the formation.
- Immediately following the excavation of the trench, the pipes shall be laid and jointed on the pipe bed. Pipes shall be laid so that each one is in contact with the bed throughout the length of its barrel.
- Trenches shall be backfilled as soon as possible to prevent injury by falls, where trenches are left open they shall be appropriately secured by barriers to prevent access into the excavation. Backfilling shall be undertaken in such manner to prevent uneven loading or damage to the pipe. Filling material shall be deposited in layers not exceeding 225 unconsolidated thickness, and then compacted to form a stable backfill. Where excavations have been supported and the supports are to be removed, these where practicable, shall be withdrawn progressively as backfilling proceeds. The progressive withdrawal shall be done in such a manner as to minimise the danger of collapse and all voids formed behind the supports shall be carefully filled and compacted to prevent depressions forming in the final surface.
- Recommended trench widths:
100mm pipe - 0.45m width
150mm pipe - 0.60m width
225mm pipe - 0.70m width
300mm pipe - 0.80m width
- Lever type chain cutters should be used on 100 & 150mm pipes with 225mm cut by either a double screw type chain cutter or masonry saw. Cut ends shall be trimmed with a pipe trimmer / emery stone.



Building Regulations Part 'H' Private Pipe Runs
Near Buildings
Detail 2

- Key:
- Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material, vegetable matter.
 - Granular material - for rigid pipes the granular material should conform to BS EN 1610 Annex B table B.15 and should be single size material or graded material from 5mm up to a maximum size of 10mm for 100mm pipes, 14mm for 150mm pipes, 20mm for pipes from 150mm up to 600mm diameter and 40mm for pipes more than 600mm diameter. Compaction fraction maximum 0.3 for class N or B and 0.15 for class F.
 - Selected fill or granular fill free from stones larger than 40mm.

- Notes:
- Provision may be required to prevent groundwater flow in trenches with class N, F or B type bedding.
 - Where the pipe has sockets and class D bedding is used, holes which should be as short as is practicable should be prepared in the trench bottom to give a clearance of 50mm beneath the socket.
 - Where the pipe has sockets and class F or N bedding is used, the sockets should be not less than 50mm above the floor of the trench.
 - All dimensions are in mm.



Detail for V trench

Flexible Pipes

Building Regulations Part 'H' Pipe Bedding Details

- General Notes:
- All dimensions and details are to be checked prior to the commencement of any work or preparation of other drawings.
 - This drawing should not be scaled, refer to figured dimensions only.
 - Any drawing or design discrepancies identified should be reported to Civil Studio immediately.
 - This drawing is to be read in conjunction with all architectural and / or other relevant drawings and details.
 - The Contractor is required to verify the location and depth of all Statutory Undertakers' Apparatus prior to commencement of work and to take any precautions necessary when working in the vicinity of apparatus.
 - In the event of any contradiction between this drawing and the specification, the Contractor shall seek clarification from Civil Studio before proceeding.

THESE DETAILS ARE GENERIC ONLY AND MAY NOT BE APPLICABLE TO THE CURRENT FOUNDATION DESIGN. SHOULD THERE BE ANY DOUBT IN IMPLEMENTING THE INFORMATION SHOWN IN THESE DETAILS THE PLEASE CONTACT THE ENGINEER.

DRAINAGE SHOULD BE INSTALLED TO AVOID PASSING UNDER OR THROUGH FOUNDATIONS IF POSSIBLE.

FOUNDATIONS SHOWN IN DETAILS ARE INDICATIVE ONLY, FOR EXACT FOUNDATION DETAILS REFER TO STRUCTURAL FOUNDATION PLANS

A	Initial Preliminary Issue	04.04.25
REV:	DESCRIPTION:	DATE:

STATUS: PRELIMINARY



CLIENT: CAPITAL HAIR & BEAUTY LTD

SITE: UNIT A, CONSORT WAY, BURGESS HILL, RH15 9TJ

TITLE: PRIVATE DRAINAGE CONSTRUCTION DETAILS SHEET 1

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
NTS	Apr 2025	JT	JP
PROJECT NO:	DRAWING NO:	REVISION:	
24.064	41.01	A	