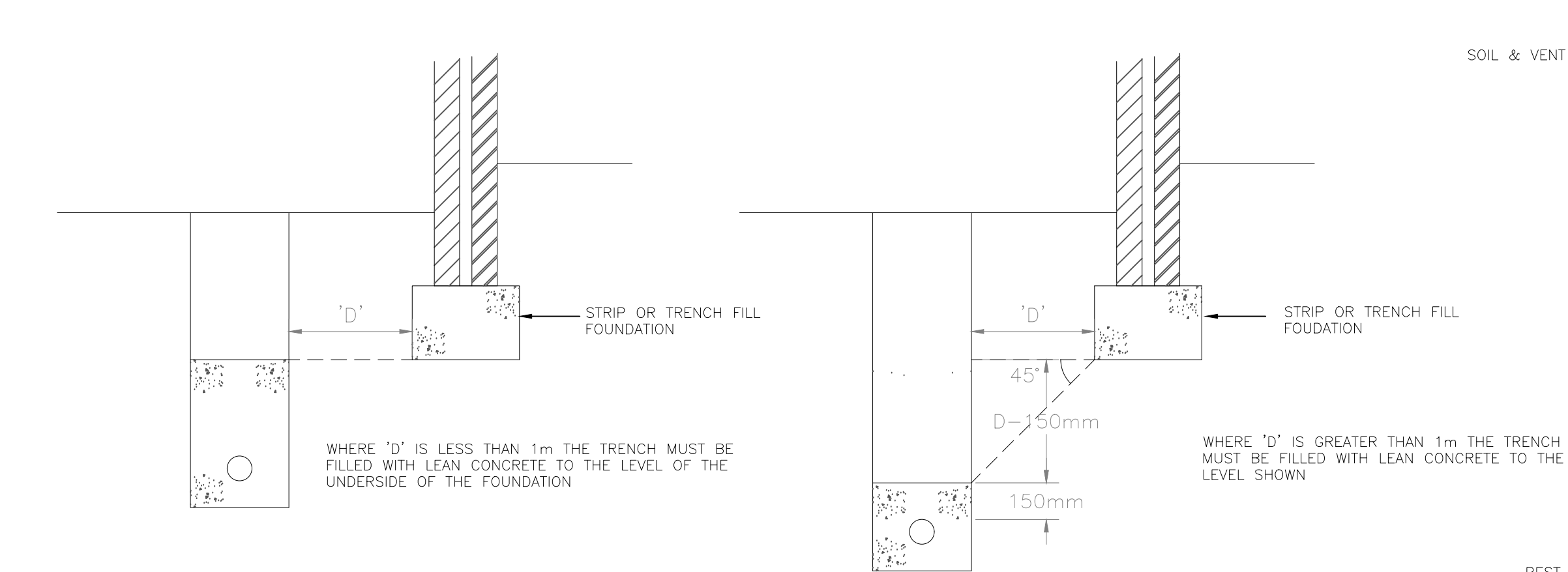
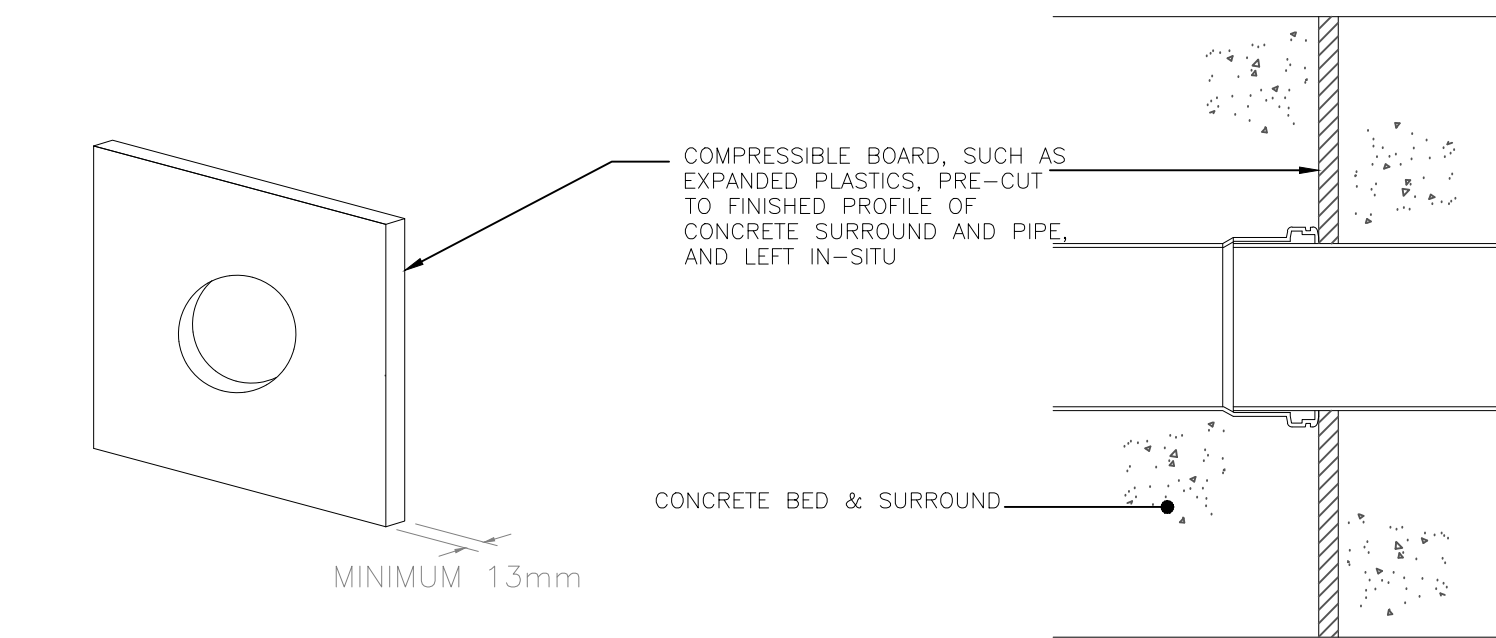




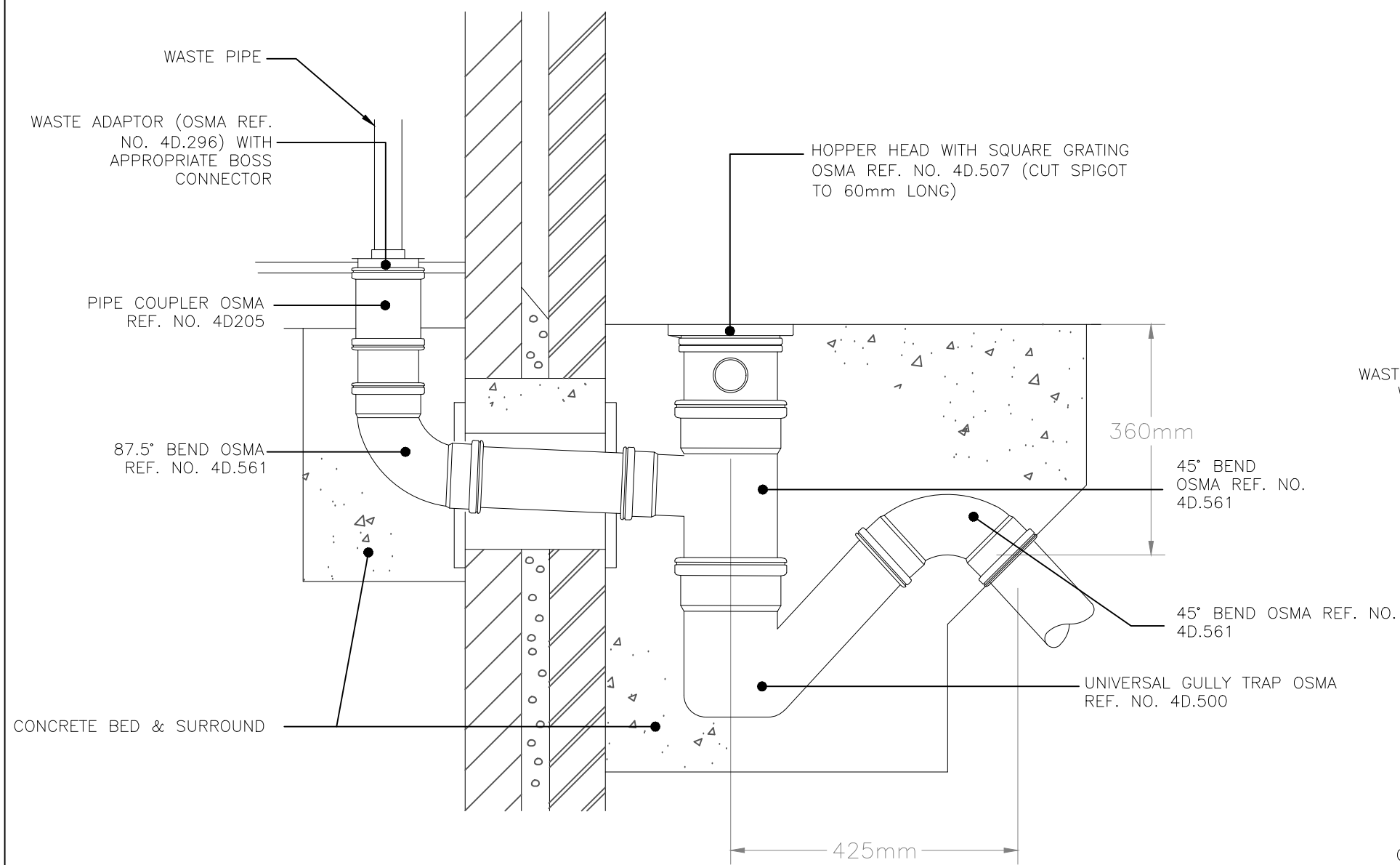
NOTE:
THE CONCRETE FILLING MUST HAVE MOVEMENT JOINTS AT A MAXIMUM OF 5m CENTRES, & PREFERABLY EVERY PIPE JOINT.

WHERE A TRENCH EXCAVATION IS LESS THAN ONE METER FROM A WALL FOUNDATION OR MORE THAN ONE METER BUT WITHIN A 45° SPREAD LINE, THEN A CONCRETE BED & SURROUND, & CONCRETE TRENCH BACKFILL WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING DETAILS.

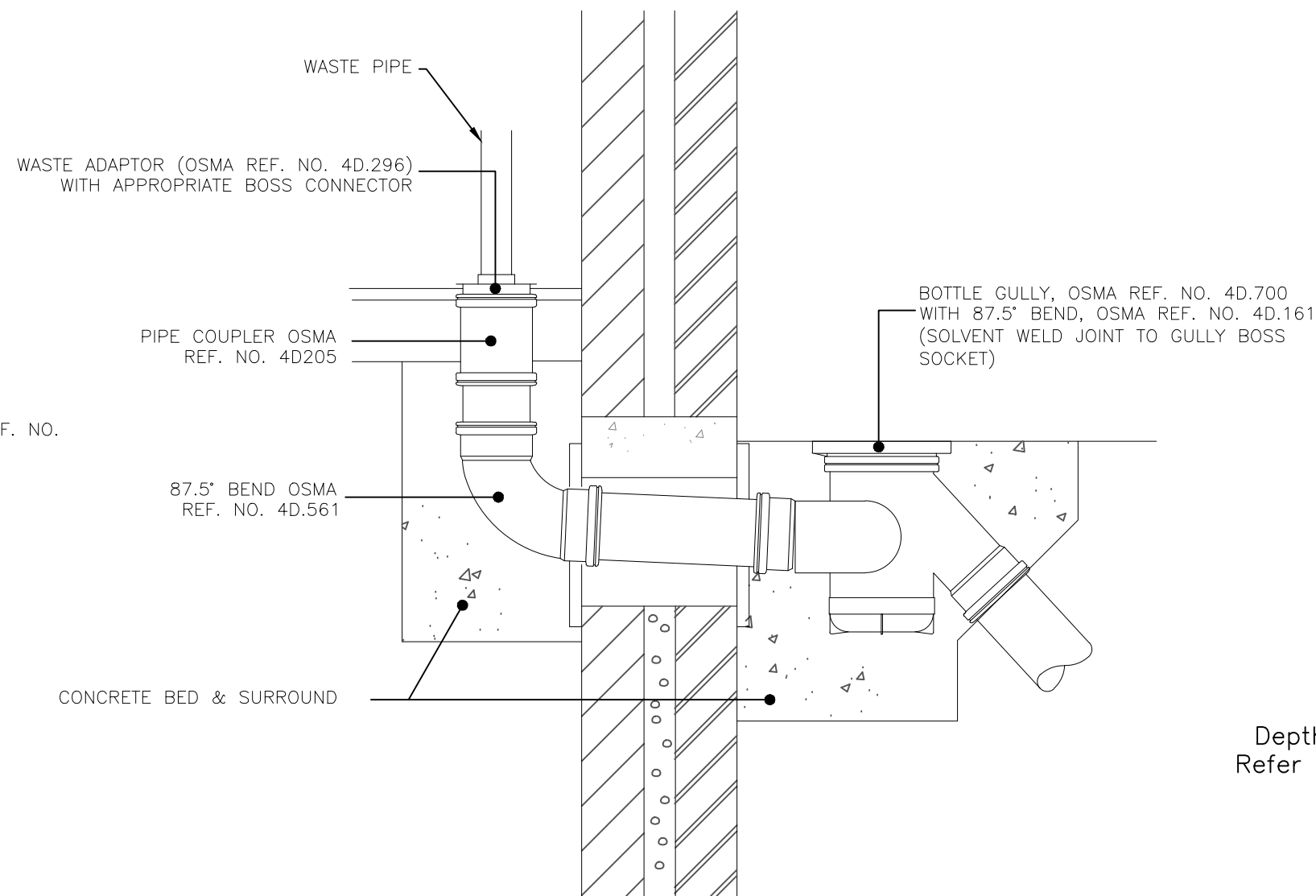
TRENCHES ADJACENT TO OR BELOW NEARBY FOUNDATION



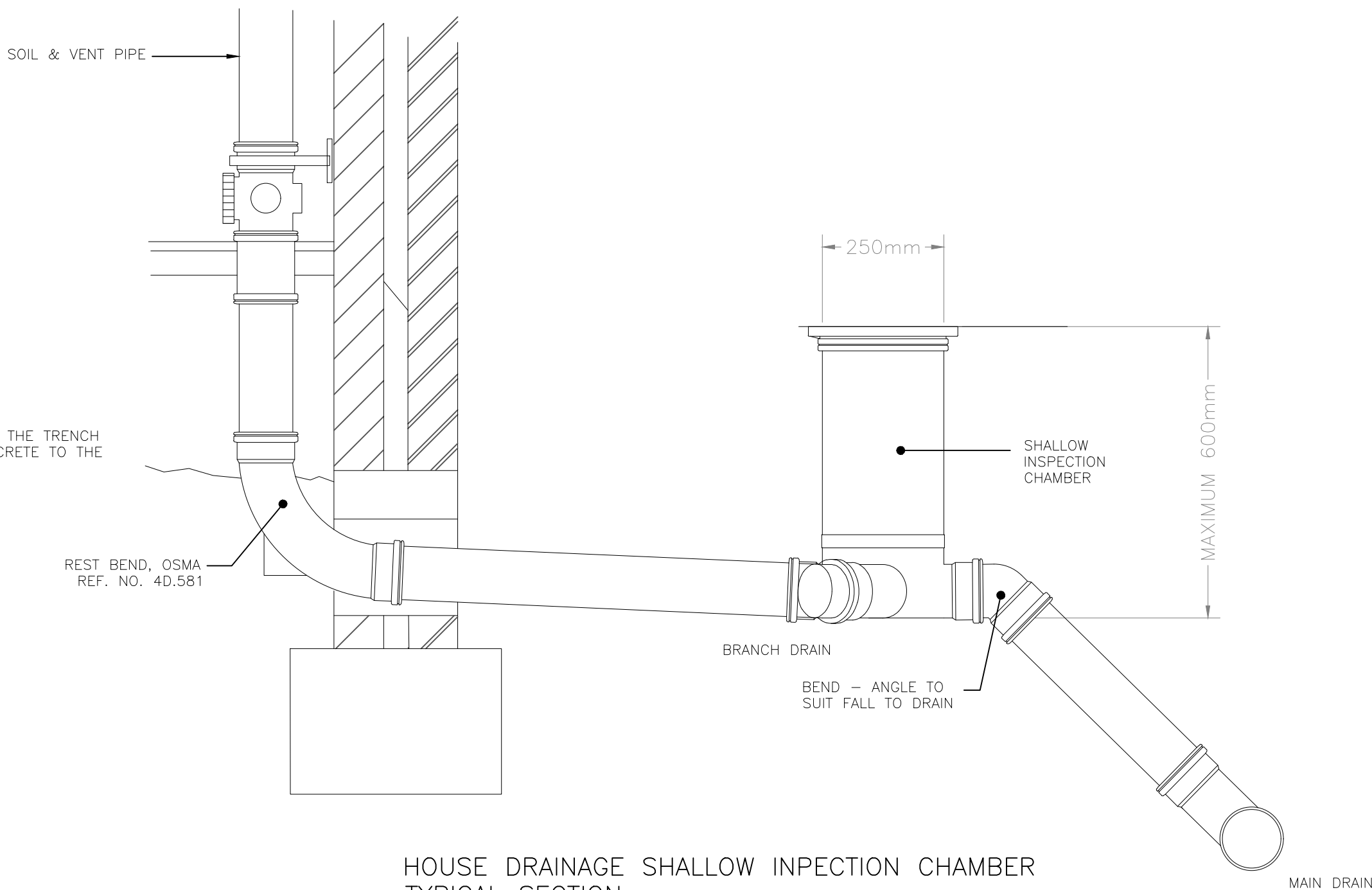
FLEXIBLE JOINT DETAIL



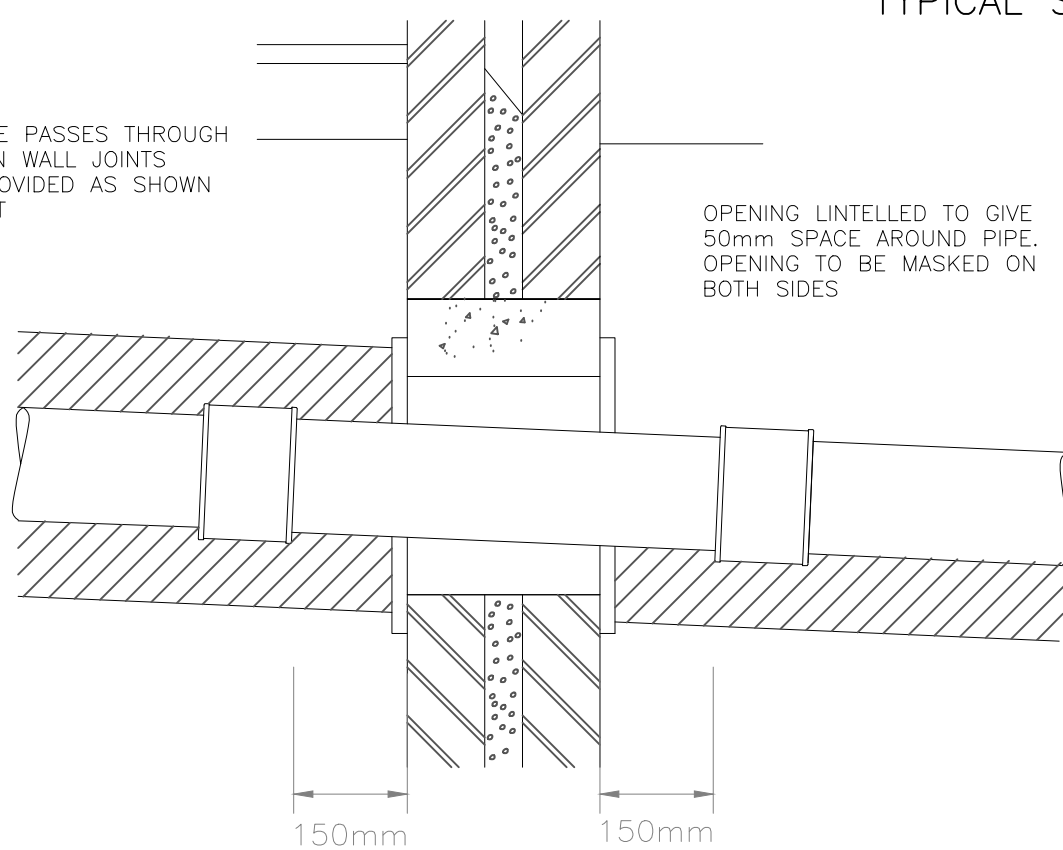
BACK INLET GULLY (UNIVERSAL TYPE)



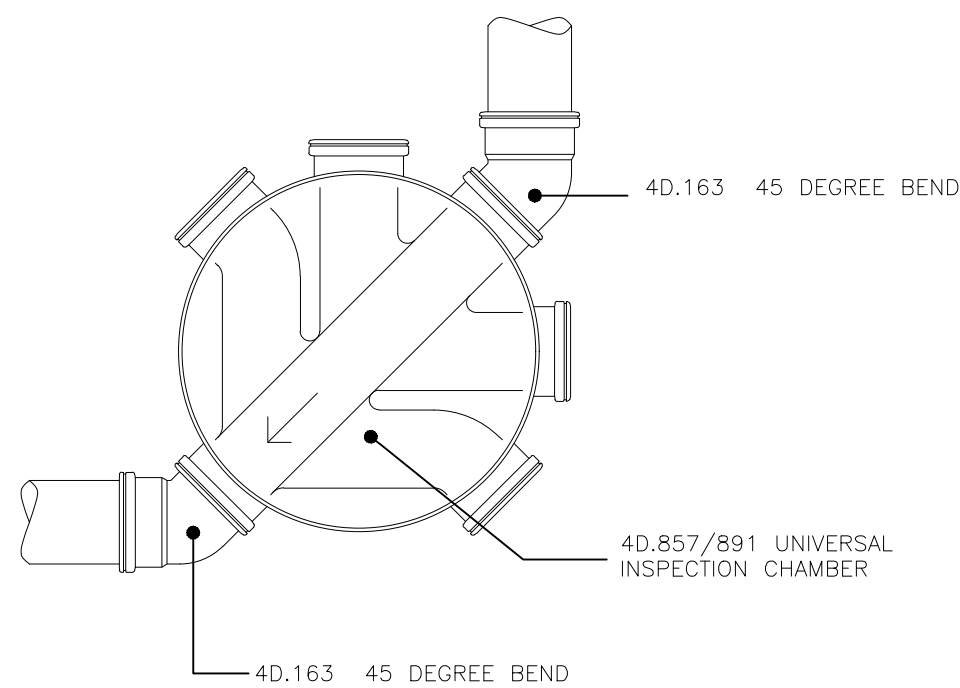
SIDE INLET GULLY (BOTTLE GULLY)



HOUSE DRAINAGE SHALLOW INSPECTION CHAMBER
TYPICAL SECTION



PIPES THROUGH WALL



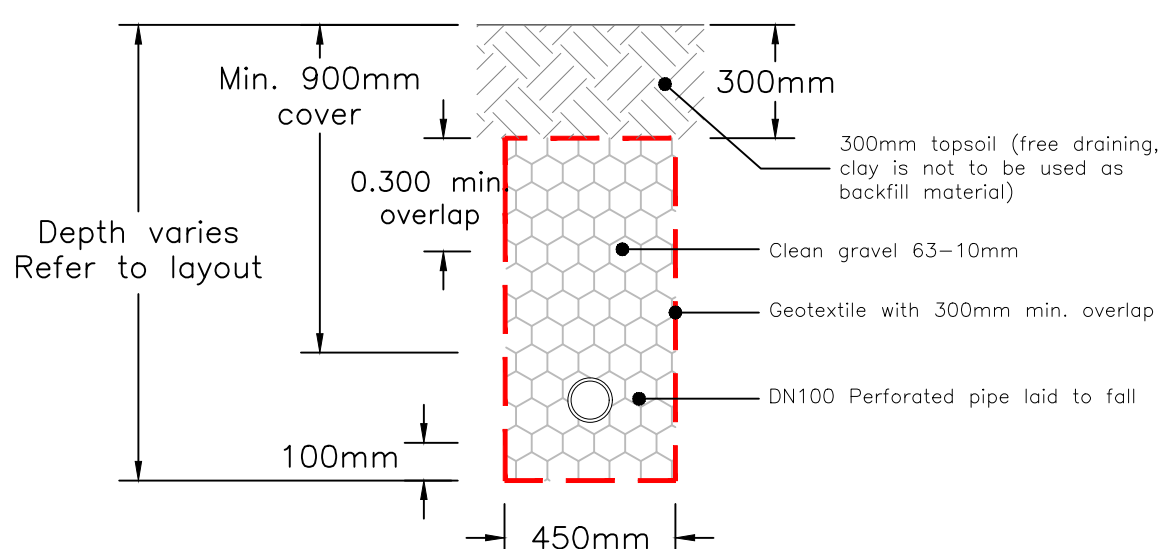
90° CHANGE OF DIRECTION USING
UNIVERSAL INSPECTION CHAMBER

Pipe Bedding Backfill Key

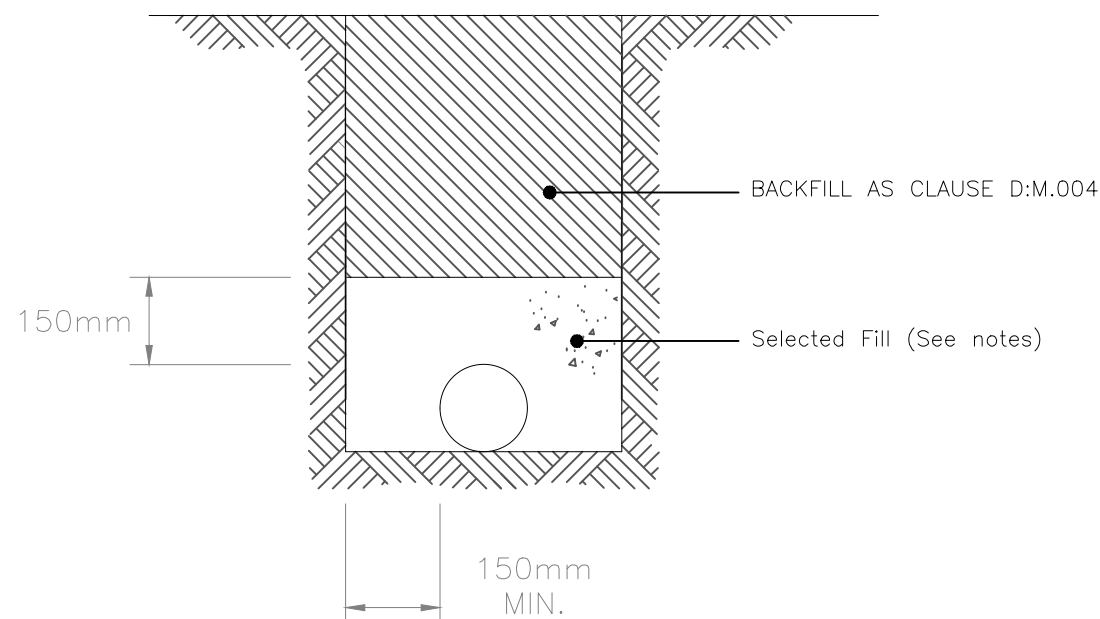
- Selected Fill – should be free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material, vegetable matter.
- Granular material – for rigid pipes should conform to BS EN 1610 Annex B Table B.15 and should be single-size material from 5mm up to a maximum size of 10 mm for 100mm 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.

Notes:

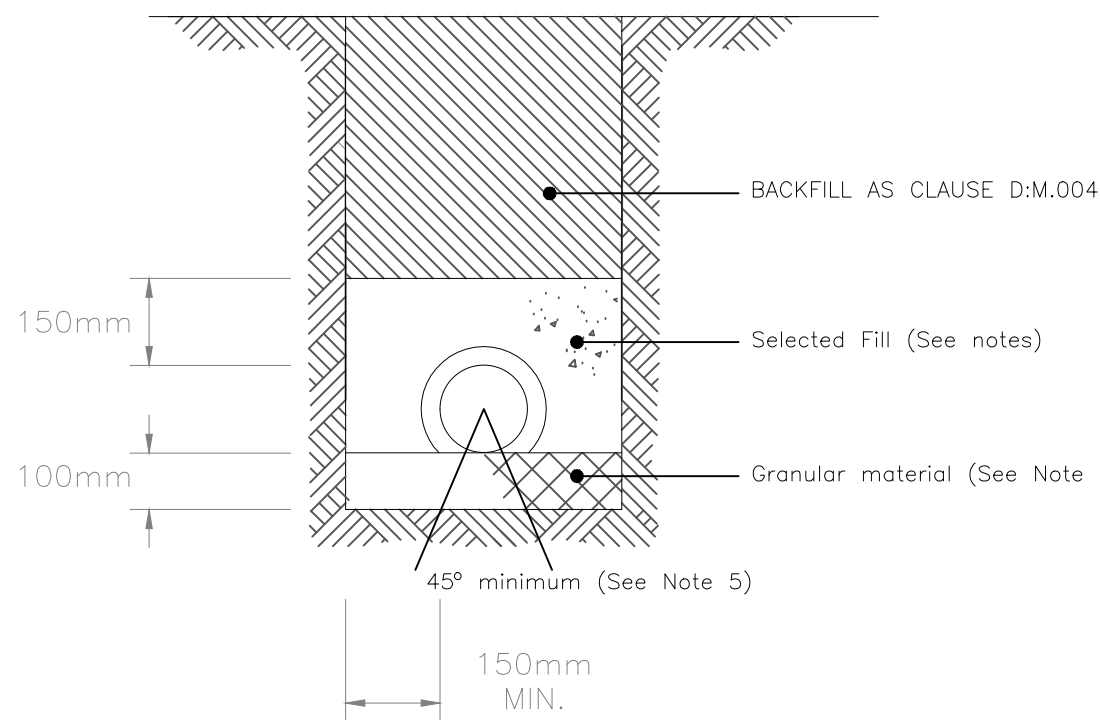
- Provision may be required to prevent groundwater flow in trenches with Class N, F or B type bedding.
- Where the pipe has sockets and Class D bedding is used, holes which should be as short as is practicable should be prepared in the trench bottom to give a clearance of 50mm beneath the socket.
- Where the pipe has sockets and Class F or N bedding is used, the sockets should not be less than 50mm above the floor of the trench.
- All dimensions are in mm.
- The 45° angle (Class F diagram) refers to the angle of the joint that is within the granular material.



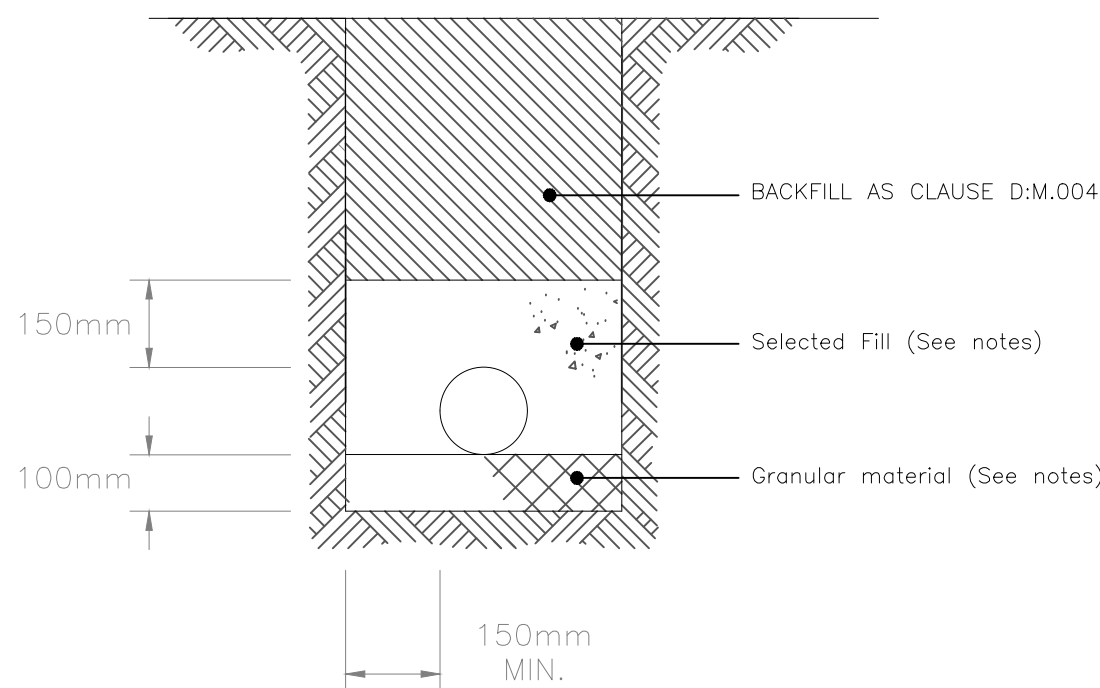
TYPICAL DN100 FILTER DRAIN
Scale 1:20



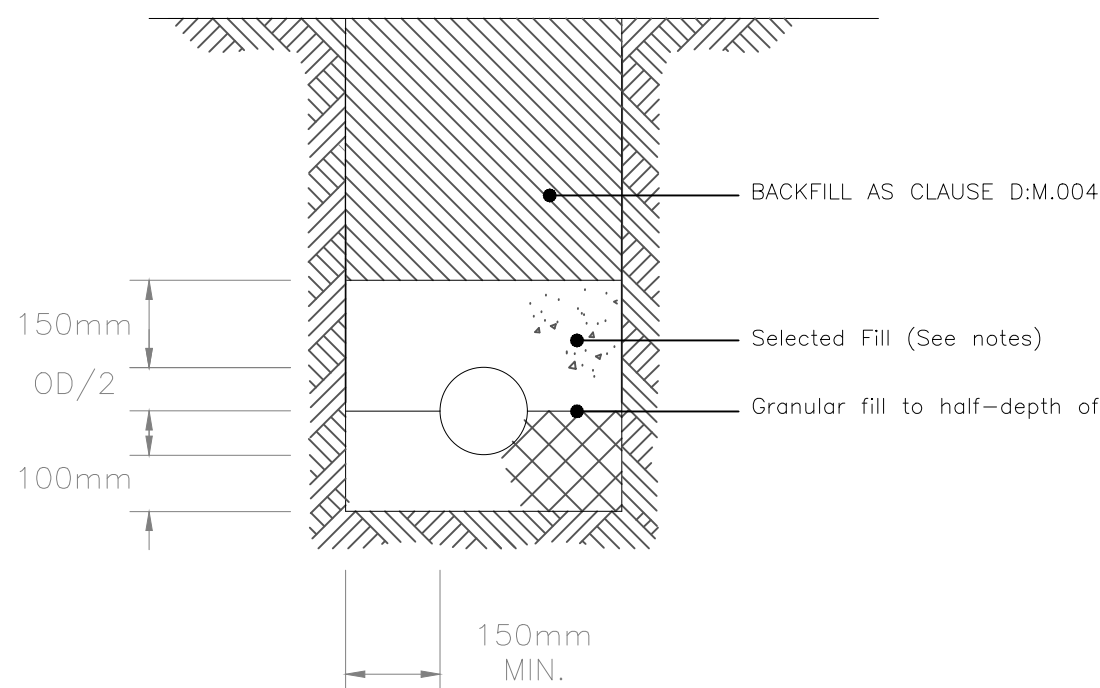
CLASS D: BEDDING FACTOR 1.1
High standard of workmanship required
Not to be used unless accurate hand trimmed by shovel is possible



CLASS F: BEDDING FACTOR 1.5
Generally suitable for all soil conditions



CLASS N: BEDDING FACTOR 1.1
Where accurate hand trimming is not possible, Class N is an alternative to class D



CLASS B: BEDDING FACTOR 1.9
General Suitable for all soil conditions

C1	21.03.22	Construction Issue.	TC	TC
P2	05.11.21	Filter drain added.	TC	TC
P1	25.06.21	First issue, preliminary.	JW	TC
REV. No.	DATE	DESCRIPTION	DRAWN	CHECKED
Client		Vistry Group		
Project		MJA CONSULTING CIVIL & STRUCTURAL ENGINEERS Ipsum Court, 24 The Quadrant, Abingdon Science Park, Abingdon Oxon, OX14 3YS Tel: 01235 555173 Email: mail@mjaconsulting.co.uk		
Title		Scale: AS SHOWN @ A1	Status: CONSTRUCTION	
Private Drainage Details		Drawn: JW	Project Engineer: TC	MJA Project No: 6470
		Drawing Number: B1015-MJA-P6-XX-DR-C-202	Date: 06/2021	Rev: C1