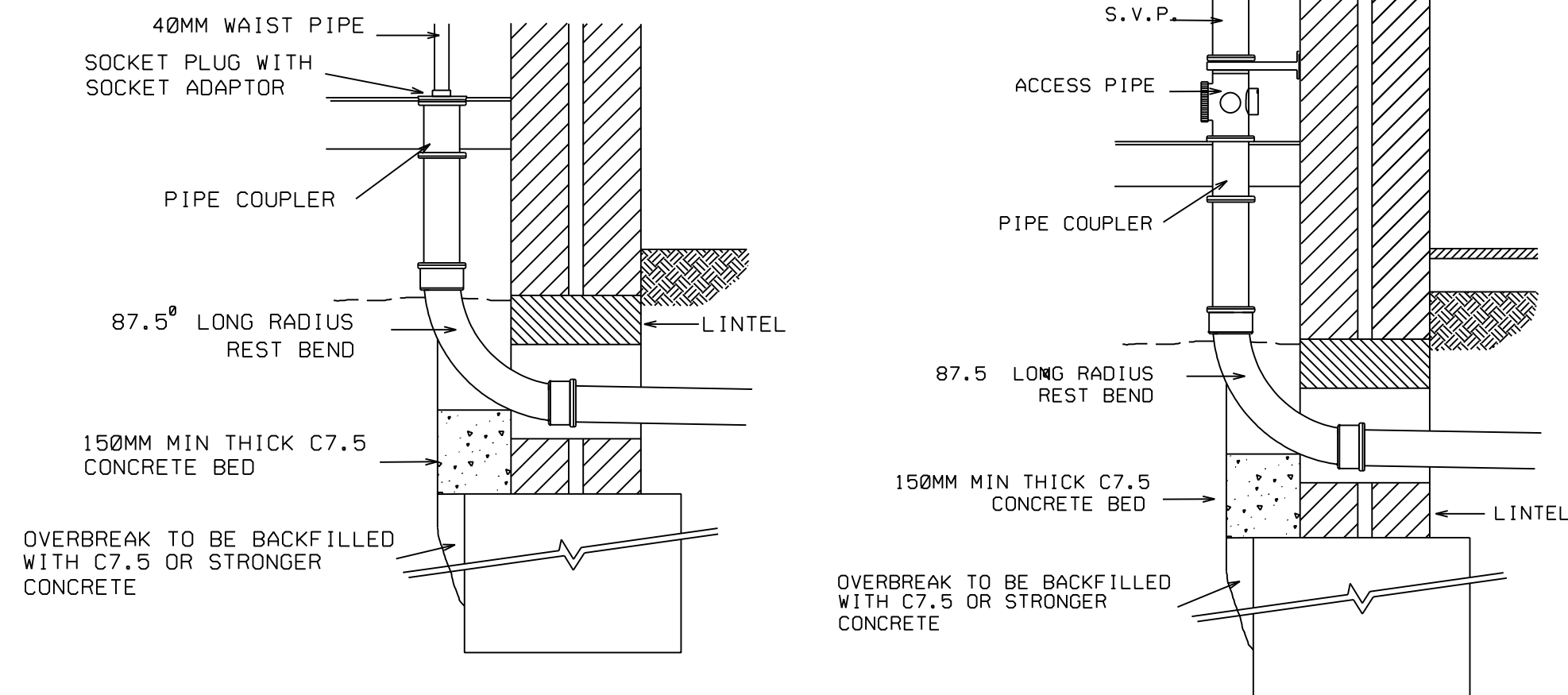
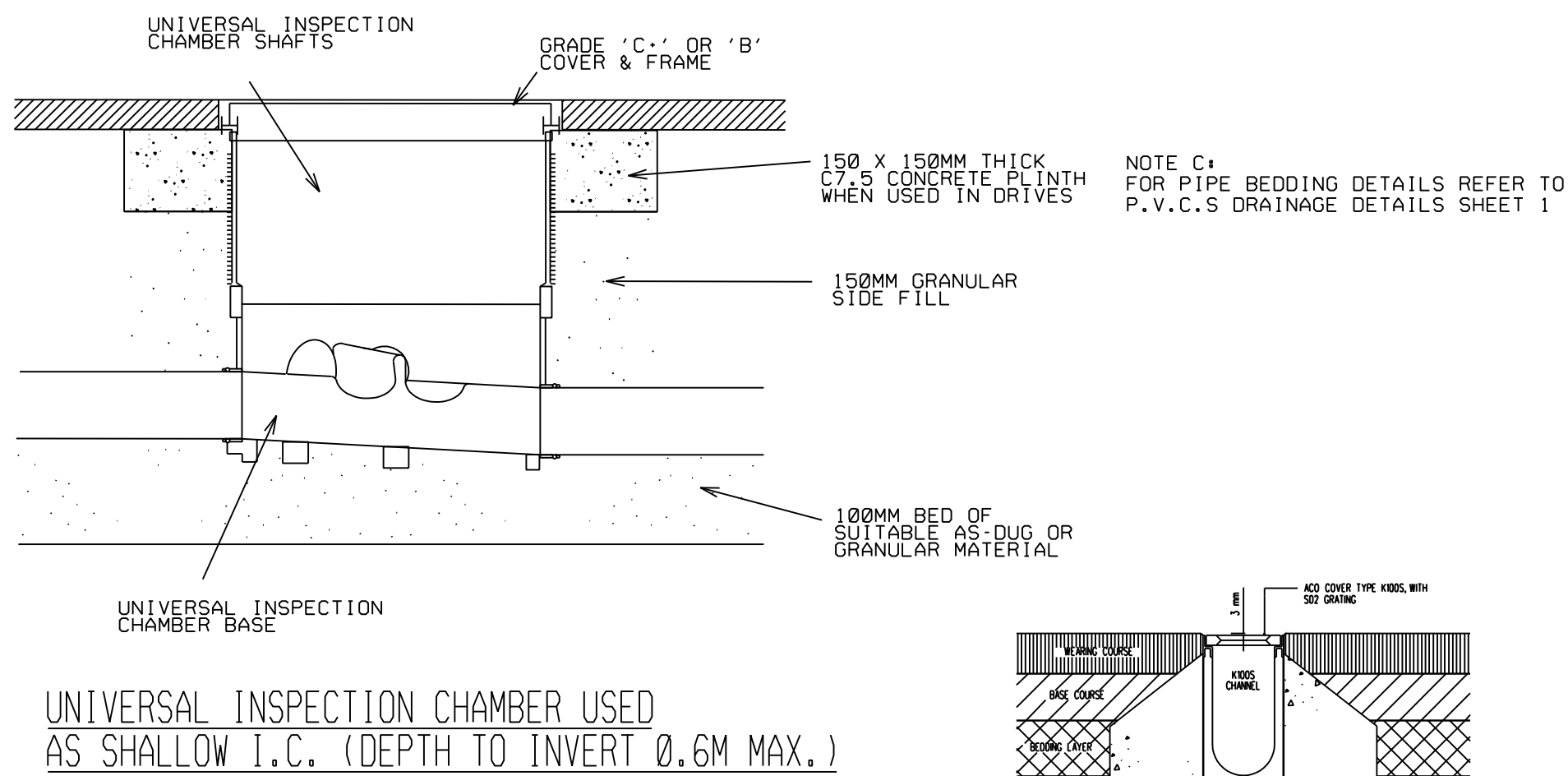


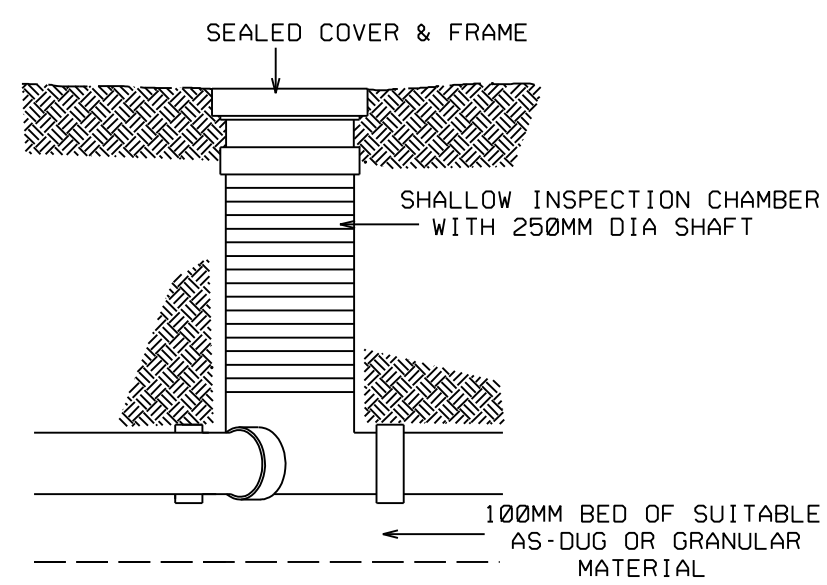
This drawing is not to be scaled: work to figured dimensions only.
Any discrepancy on this drawing to be reported immediately to the Paul Southcott for clarification.



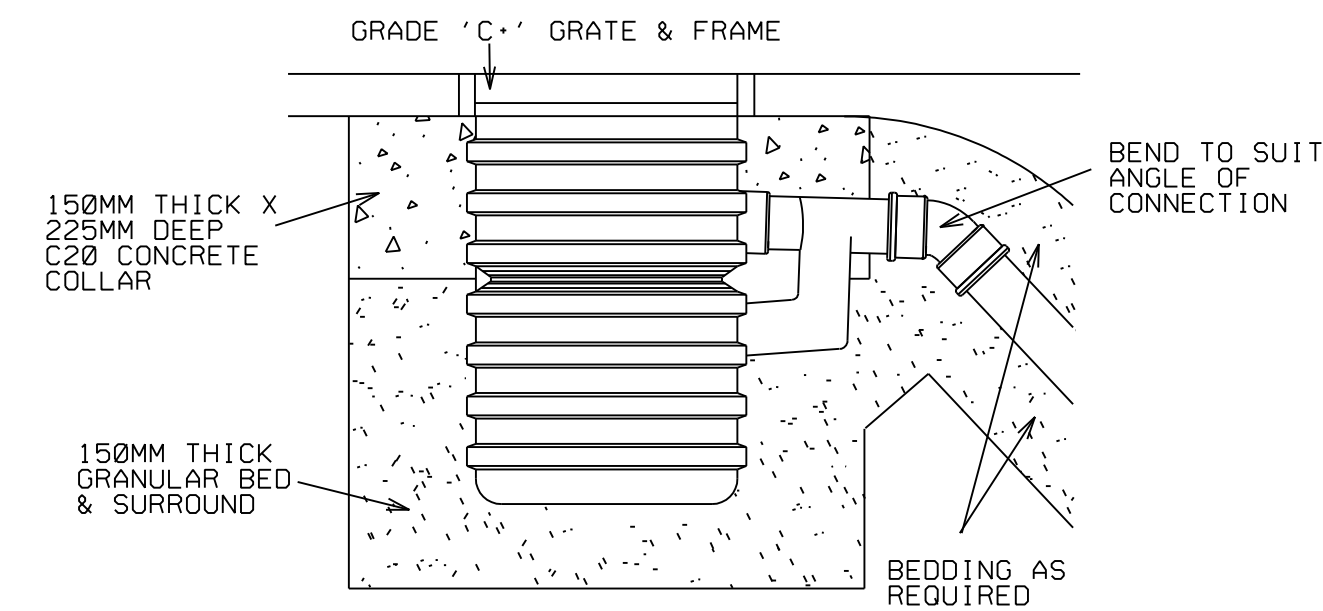
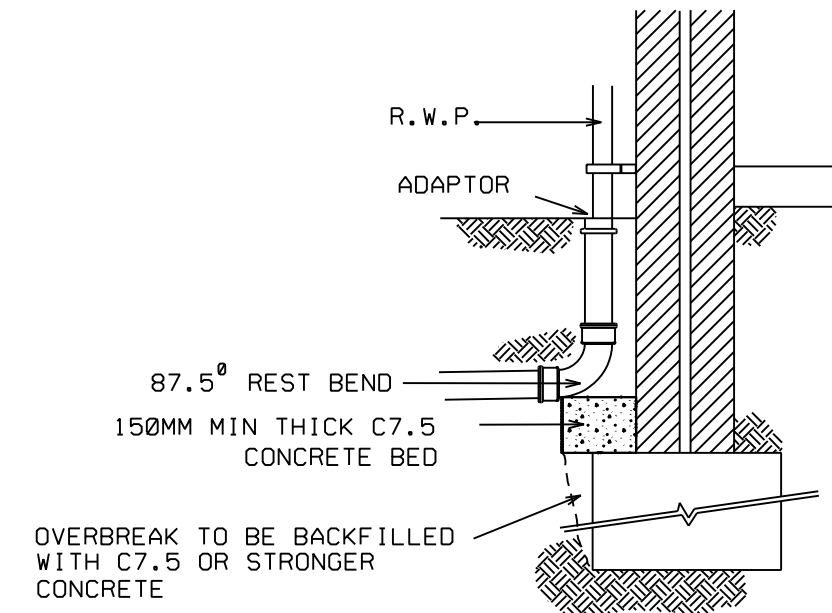
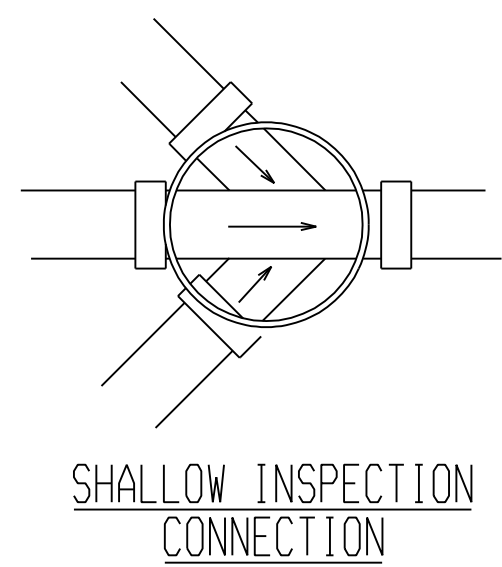
INTERNAL SOIL TO DRAIN



UNIVERSAL INSPECTION CHAMBER USED AS SHALLOW I.C. (DEPTH TO INVERT 0.6M MAX.)

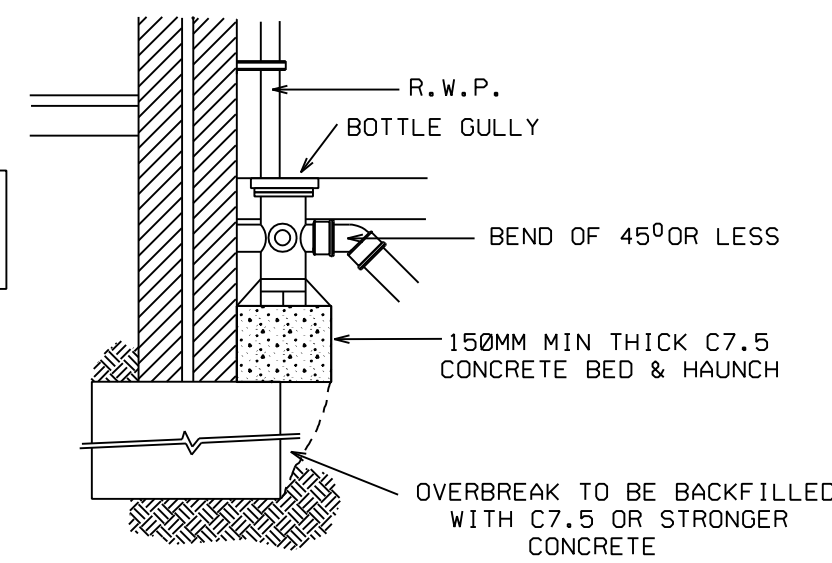


SHALLOW INSPECTION CHAMBER (DEPTH TO INVERT 0.6M MAX.)

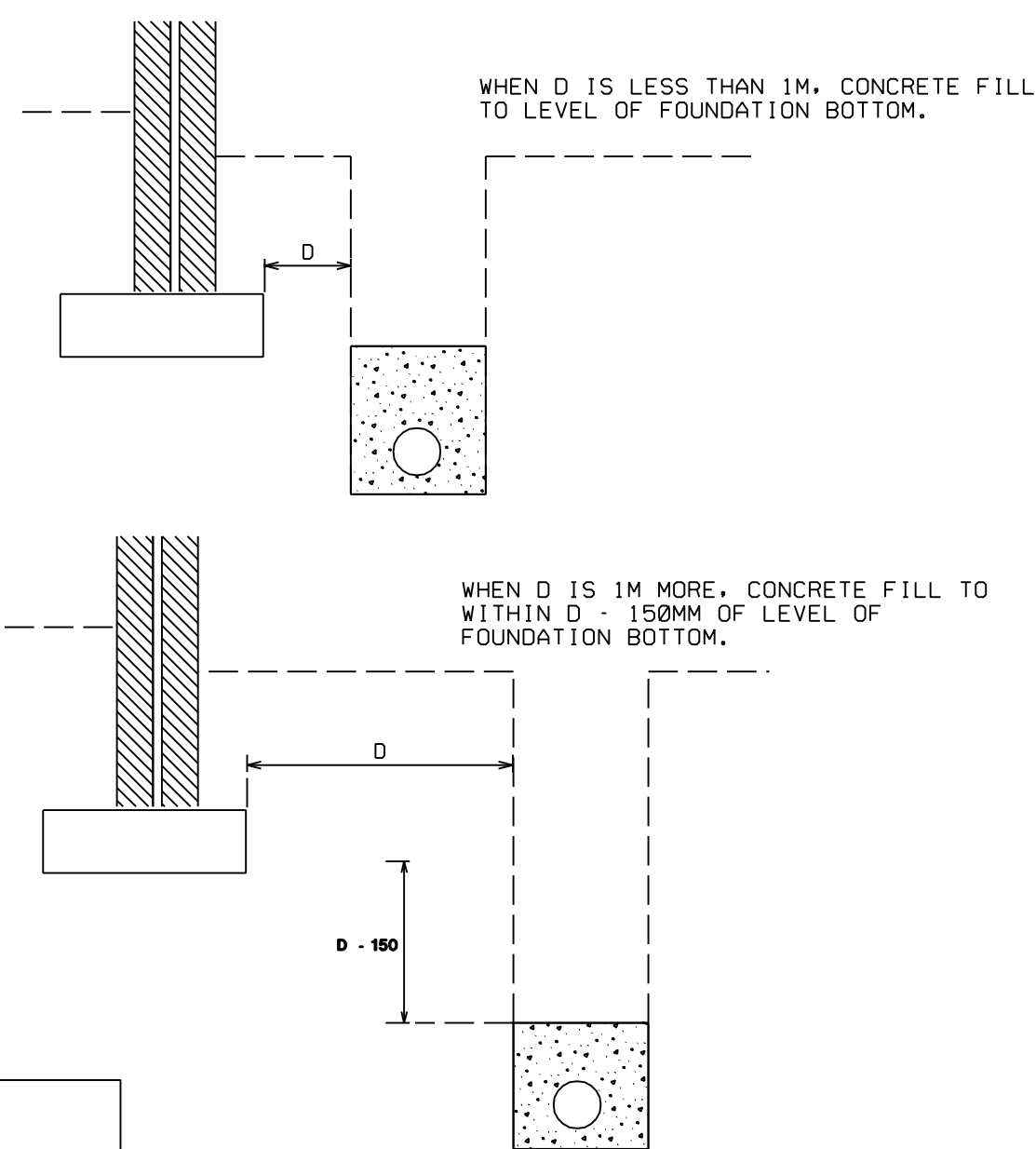


BS 8301:1985 Code of Practice for Building Drainage 3/11.1
The design of bedding for pipelines is based on the principle that the ability of a pipe to carry a load may be increased by the provision of suitable bedding. A rigid pipe has inherent strength but by providing a degree of encasement higher loads may be carried. A flexible pipe will deform under the application of loads and requires support from surrounding material, and thus from the sides of the trench, in order to avoid excessive deformation of the pipe.

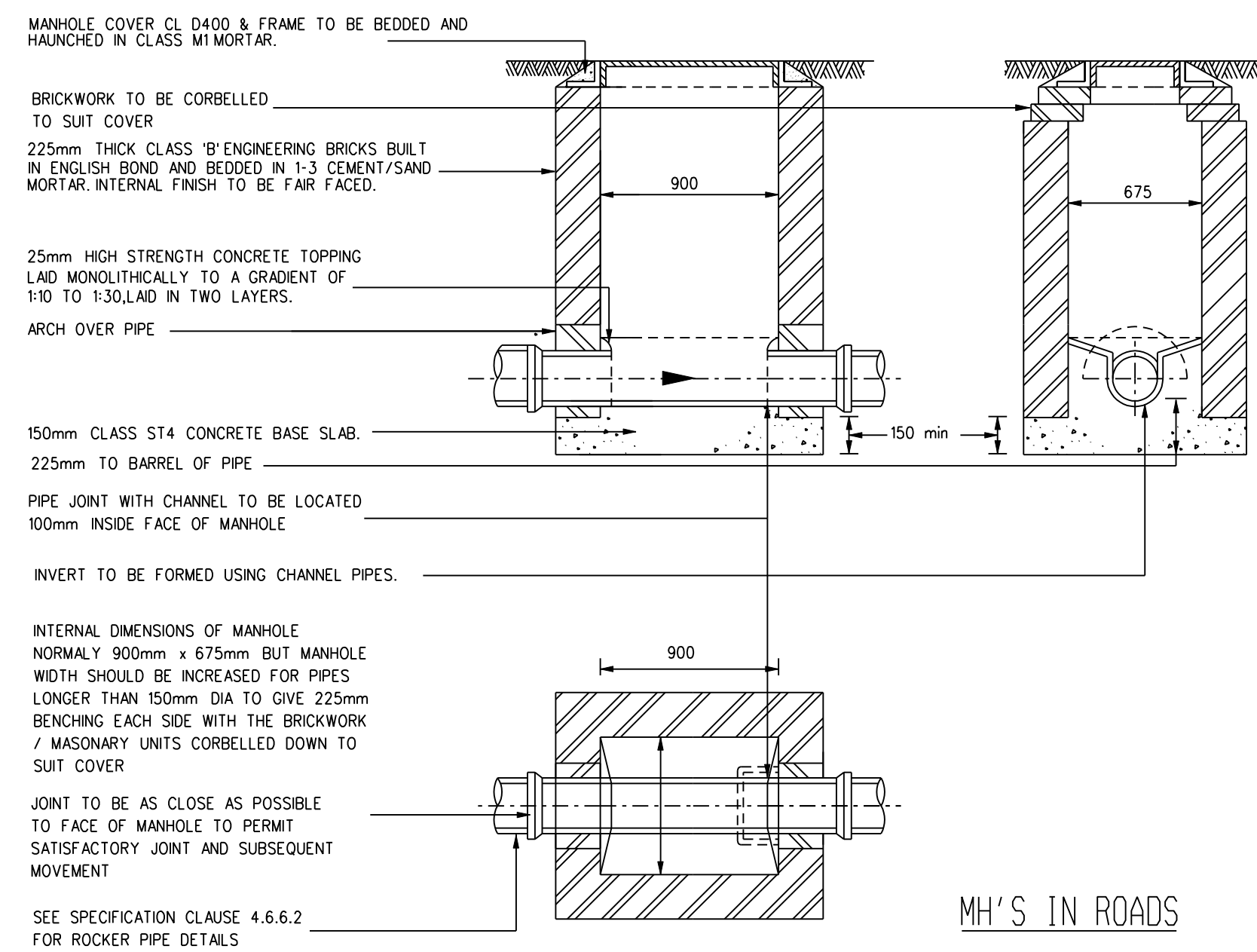
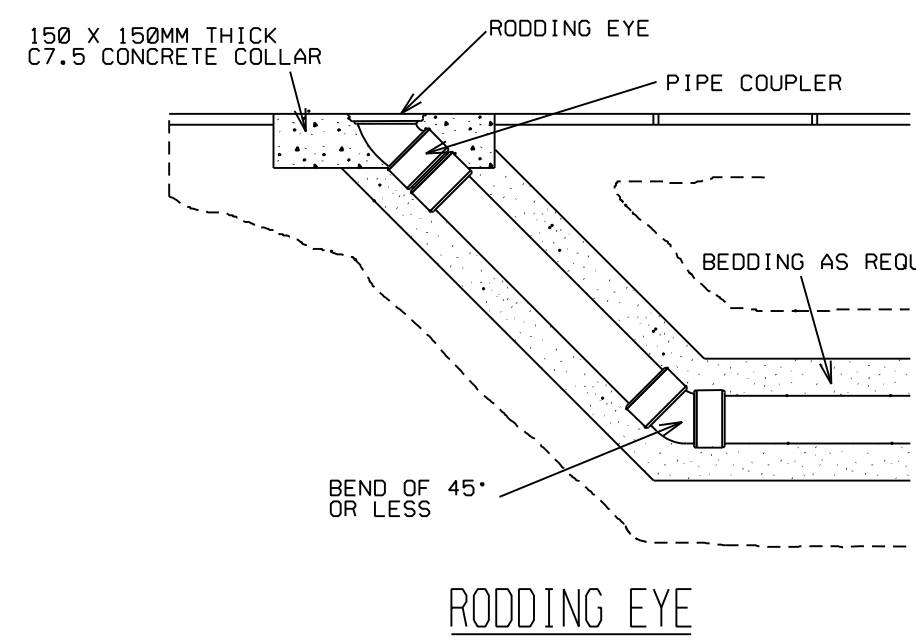
EXTERNAL R.W.P TO DRAIN



PIPES PENETRATING WALL / FOUNDATIONS



CONCRETING OF DRAINS LAID NEAR FOUNDATIONS (AS BS 8301 SECT. 5 : 1985)

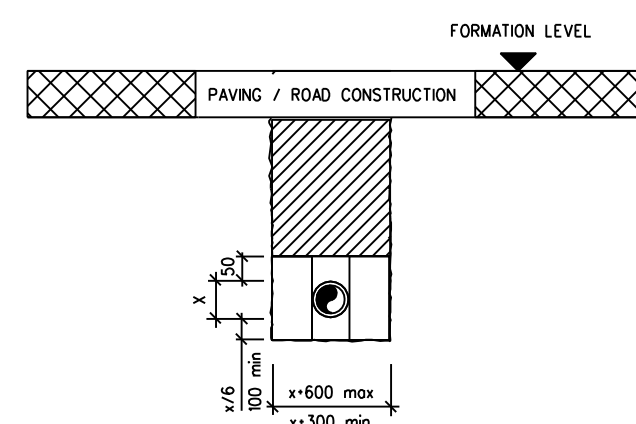


LEGEND

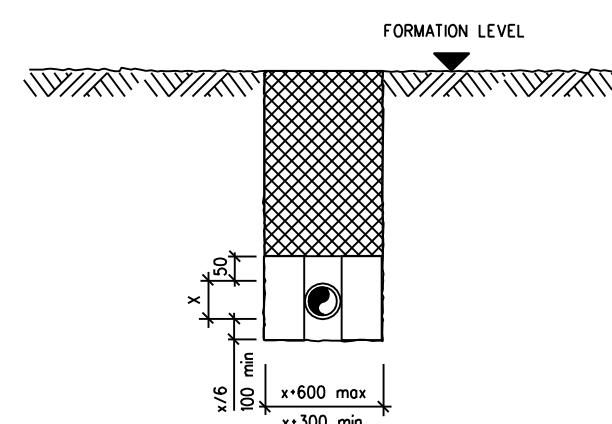
- TYPE 1 sub base backfill
- SELECTED as dug material backfill
- C20 concrete bed and surround
- GRANULAR BED as tabled below

GRANULAR BEDDING AND SIDE FILL MATERIALS FOR RIGID PIPES

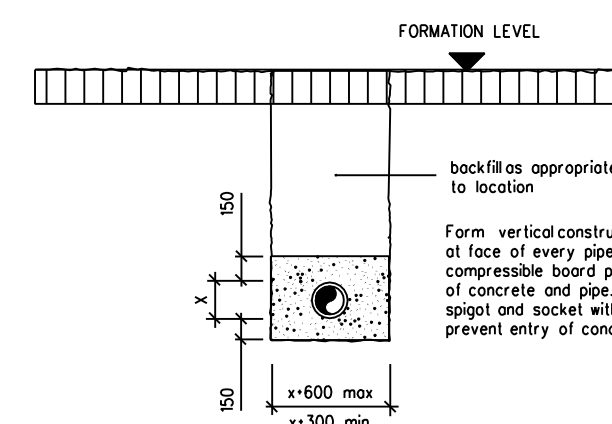
PIPE NOMINAL BORE (DN)	MAXIMUM PARTICLE SIZE (mm)	SUITABLE MATERIALS IMPORTED GRANULAR MATERIALS
100	10	100mm NOMINAL SINGLE-SIZED
OVER 100 TO 150	15	10 OF 14mm NOMINAL SINGLE-SIZED OR 14mm TO 5mm GRADED
OVER 150 TO 300	20	10, 14 OR 20mm NOMINAL SINGLE-SIZED OR 14mm TO 5mm GRADED OR 20mm TO 5mm GRADED
OVER 300	40	10, 14, 20mm OR 40mm NOMINAL SINGLE-SIZED CRUSHED ROCK OR 14mm TO 5mm GRADED OR 20mm TO 5mm GRADED OR 40mm TO 5mm GRADED



TYPE S
PIPE BEDDING IN ROADS AND TRAFFICKED AREAS



TYPE T
PIPE BEDDING IN VERGES AND OTHER UNTRAFFICKED AREAS



TYPE Z
PIPE BEDDING WHEN COVER IS LESS THAN (1.2m COVER IN HIGHWAYS OR 0.9m IN DRIVES)

CIVIL ENGINEERING SERVICES

19 THE HAMLET
NAILSEA
NR BRISTOL
BS48 1BY

TEL 07857644760 Email: paulsouthcott2@aol.com

job : LAND TO REAR OF 63 HIGH STREET,
WARGRAVE, READING RG10 8BU

dwg title: STANDARD DRAINAGE CONSTRUCTION DETAILS

client: MR N TOWERS

DATE
FEB 2025

SCALE
NTS @ A1

DRG NO
2025/06/04

BUILDING DRAINAGE DESIGN AND CONSTRUCTION

- All pipes and fittings, manholes, inspection chambers, access chambers, yard gullies and respective cover and frames shall be as specified and conform to the relevant BRITISH STANDARD and current BUILDING REGULATIONS.
- Inspection chambers located within buildings to have double seal bolt down covers.
- Pipes running under buildings without suspended floors shall have a 100mm granular surround.
- Pipes to have a 50mm clear space through wall and brickwork over shall be supported by a lintel.
- Pipes embedded in walls shall have joints formed within 150mm of either wall face. Adjacent rocker pipes of maximum 600mm length shall continue the pipework.
- Where drainage runs are situated under buildings rodding eyes shall be provided to facilitate access. House drainage connections shall be provided with rodding points to give access to any lengths of pipe which cannot be reached from any other part of the system.
- The backfilling of trenches which are in the proximity of foundations shall be in accordance with BS 8301:1985 figure 4 or requested and agreed with the Structural Engineer.
- All vehicular standing areas adjacent to buildings to be minimum 150mm below DPC level unless otherwise shown.
- Private drains under drives and parking bays are to be protected with type Z bed and surround if they have less than 900mm of cover.
- Private manholes 1.0m - 1.5m deep may be 'Polypipe Civils Ltd.' Twin Wall manholes 1050mm internal diameter with pre-formed chamber bases, step irons to BS 1247 and covers to BS 497 Grade B, Class 2 in drives, Grade C in gardens.
- Private manholes over 1.5m deep may be 'Polypipe Civils Ltd.' Structured Wall manholes 1200mm internal diameter with pre-formed chamber bases, or Class S14 concrete base and preformed channels, step irons to BS 1247 and covers to BS 497 Grade B, Class 2 in drives, Grade C in gardens.
- Levels shown on dwellings are FINISHED FLOOR LEVELS.
- A CCTV survey of the adoptable sewers shall be carried out by the contractor where required by the engineer.
- All building drainage to be 100mm diameter unless otherwise stated.
- Connections to adoptable sewers to be 150mm diameter unless otherwise stated.
- The contractors attention is drawn to the relevant provisions of the HEALTH AND SAFETY AT WORK ACTS which must be complied with during the execution of the works.
- This drawing should be read in conjunction with others issued in respect of the proposed development and also in conjunction with relevant engineers and specialist manufacturers drawings and specifications.
- All levels relate to ORDNANCE SURVEY DATUM unless otherwise stated.