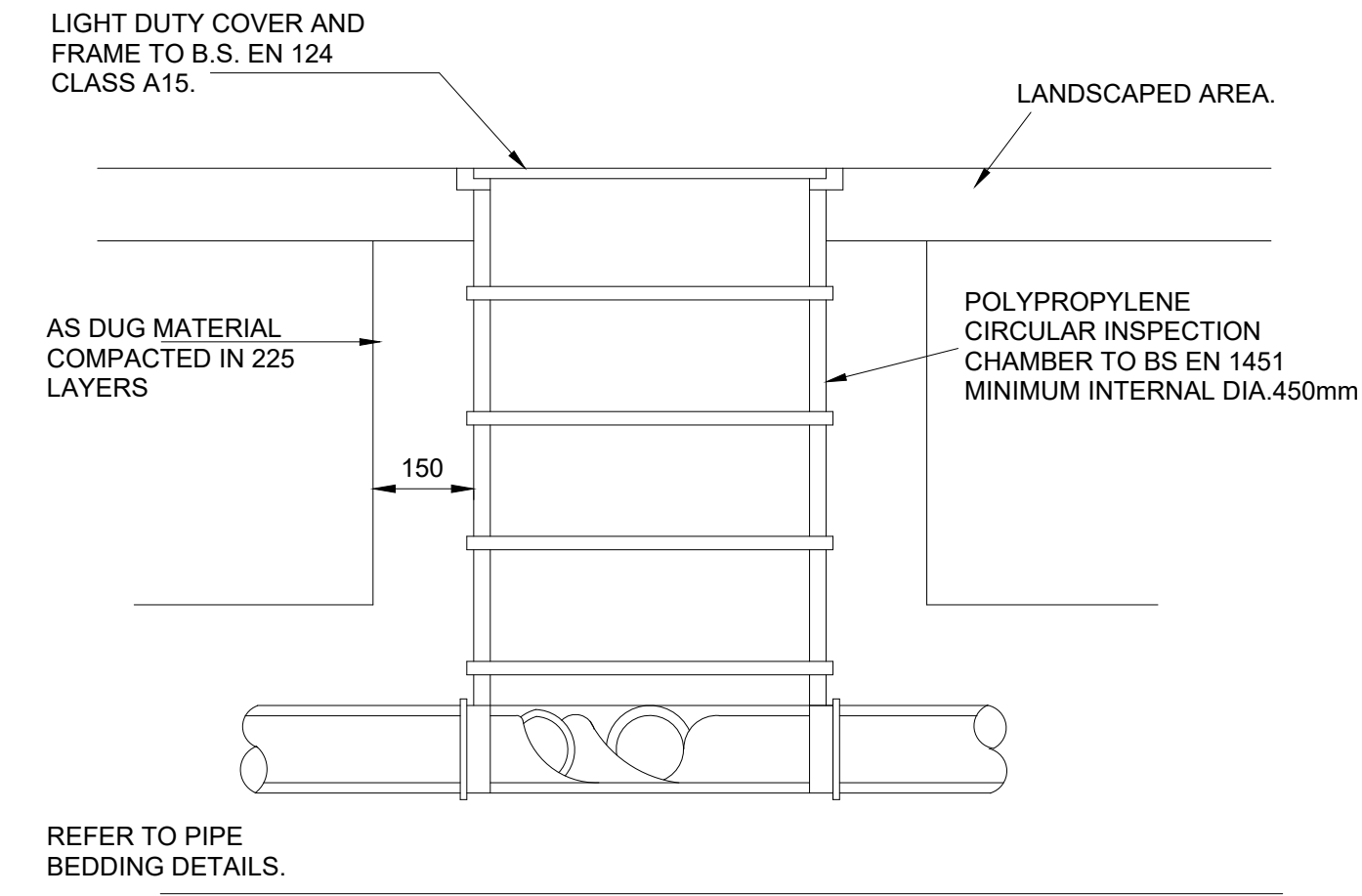
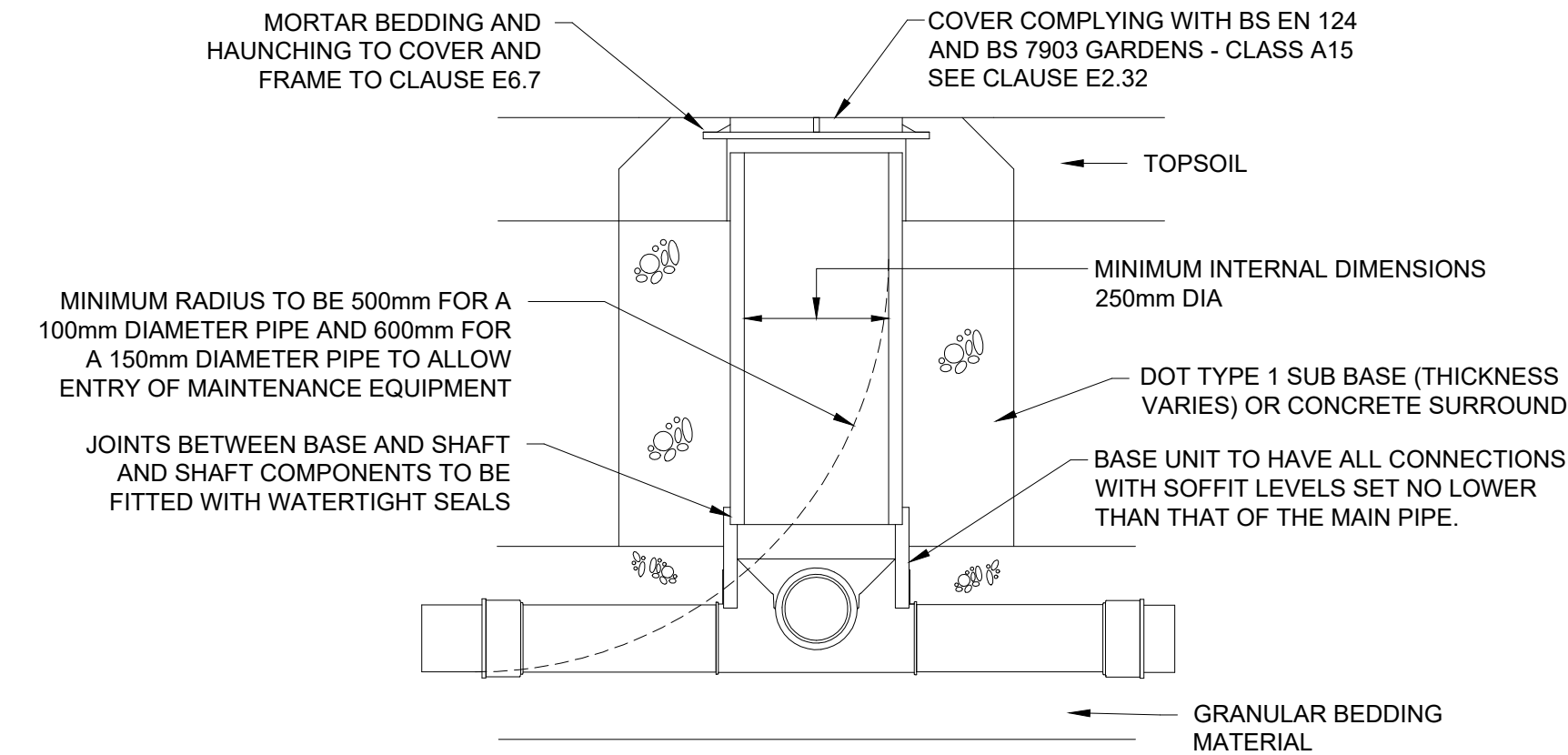




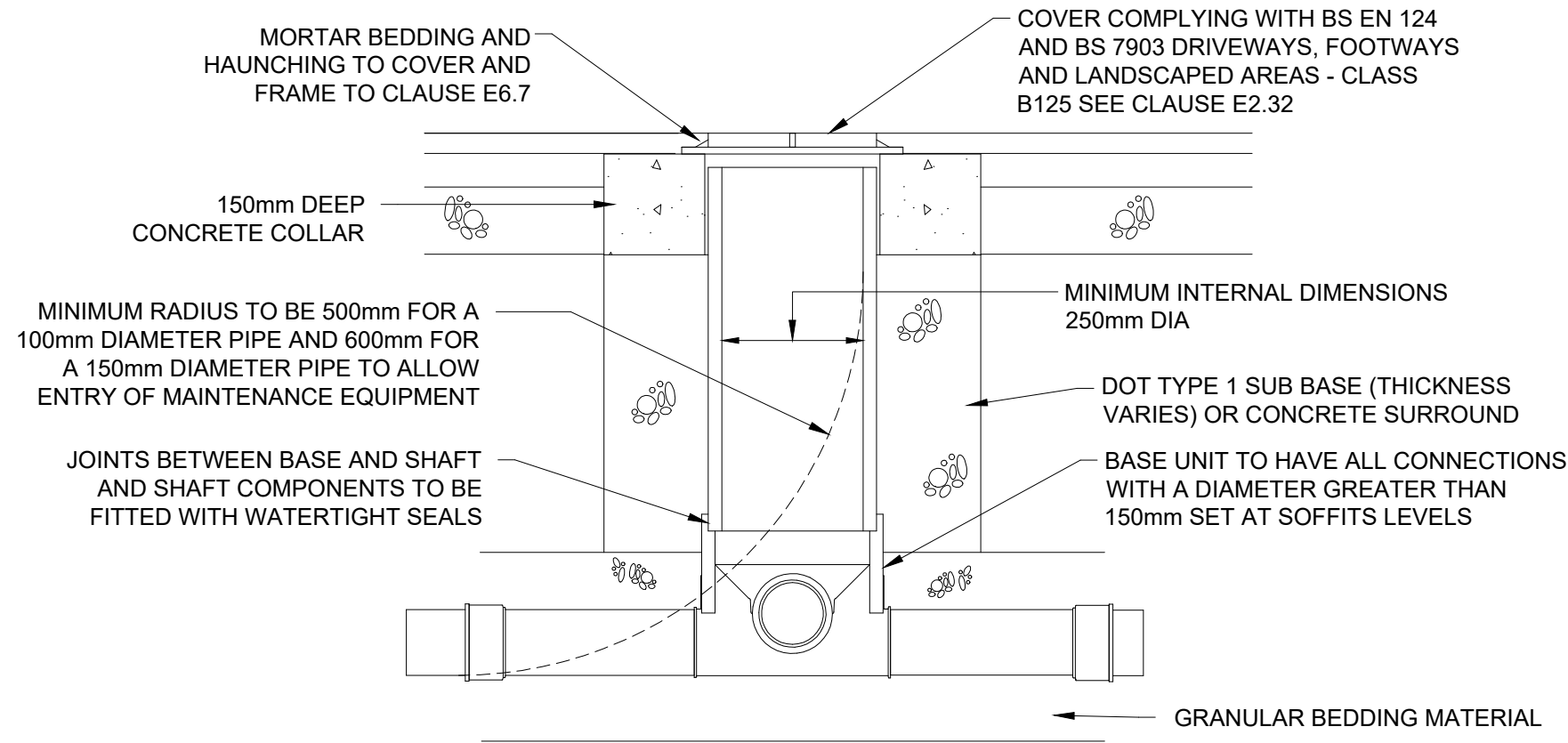
INSPECTION CHAMBER - IC3

LOCATED WITHIN PRIVATE AREAS INACCESSIBLE TO MOTOR VEHICLES
FOR DEPTH TO INVERT GREATER THAN 1200mm ACCESS OPENING TO BE RESTRICTED TO 350mm.



TYPICAL INSPECTION CHAMBER - IC4

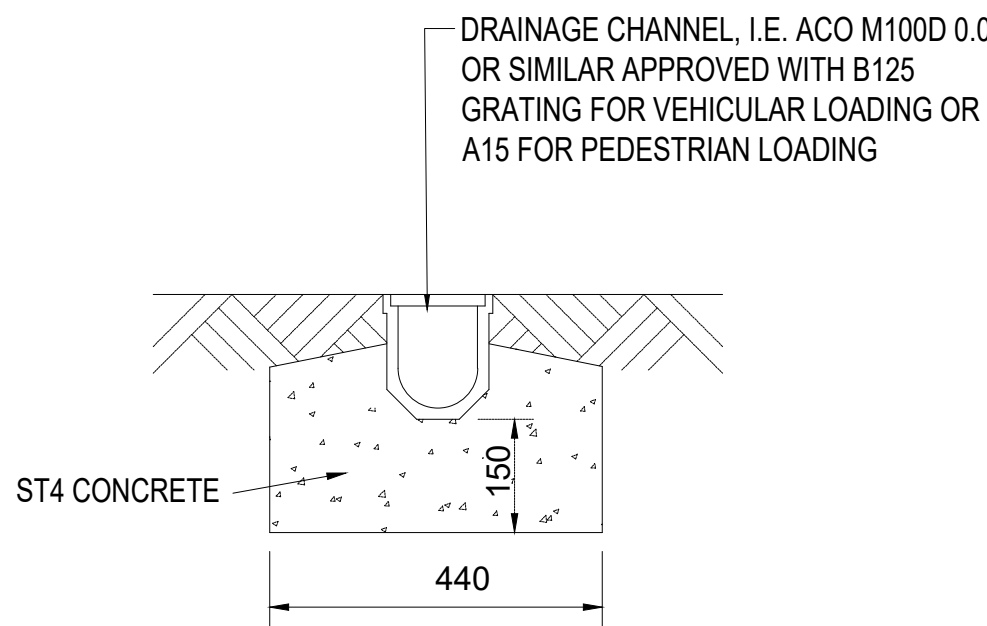
SITED IN DOMESTIC GARDENS (MAX DEPTH TO INVERT 600mm)



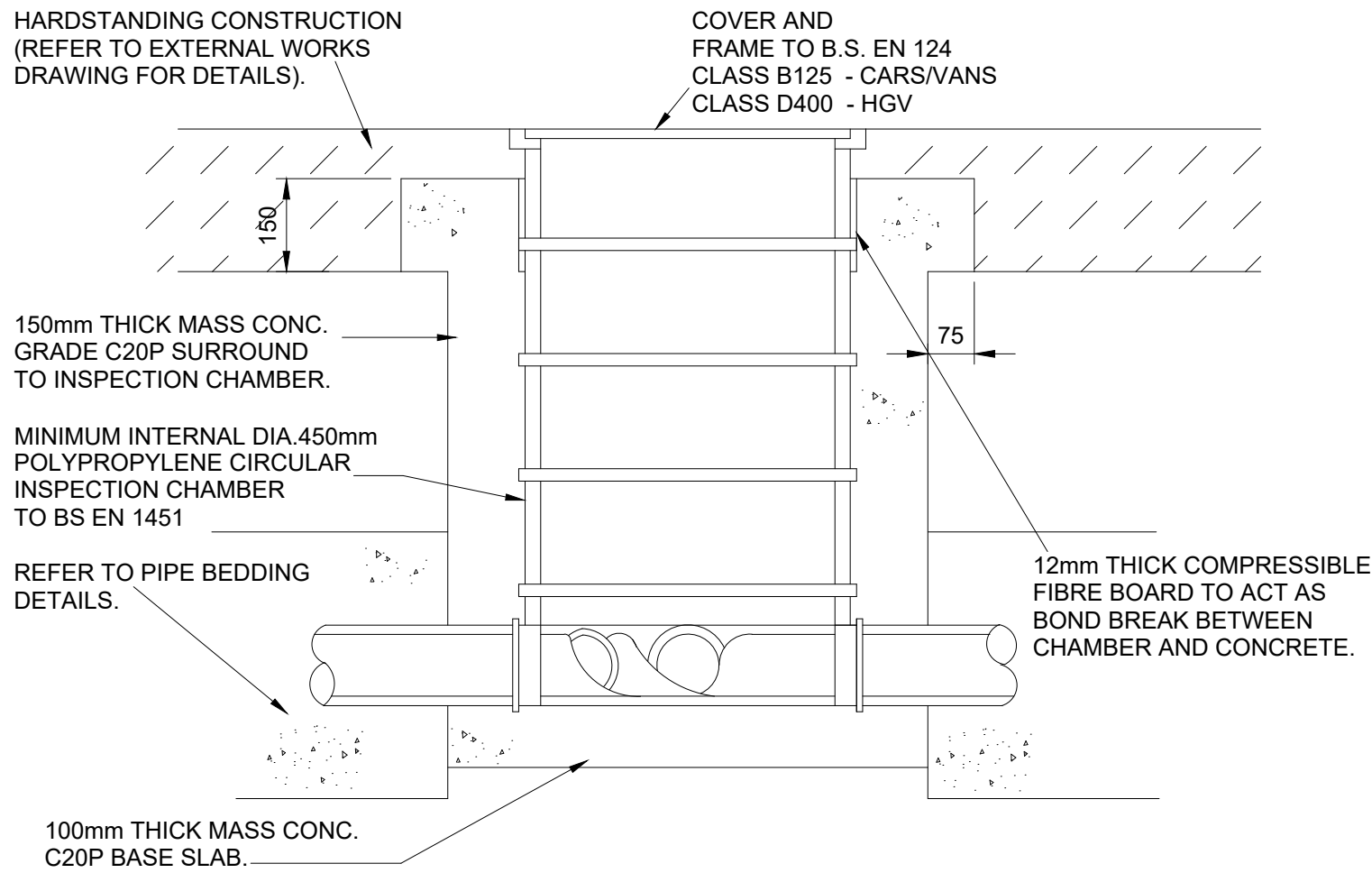
TYPICAL INSPECTION CHAMBER - IC4

SITED IN DRIVEWAYS/PAVED AREAS (MAX DEPTH TO INVERT 600mm)

PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1
AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL

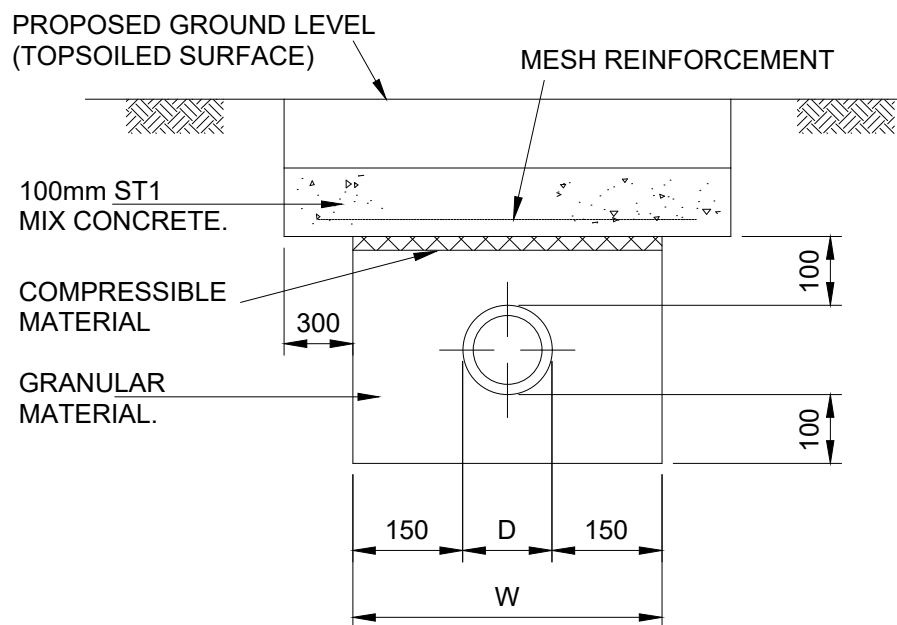
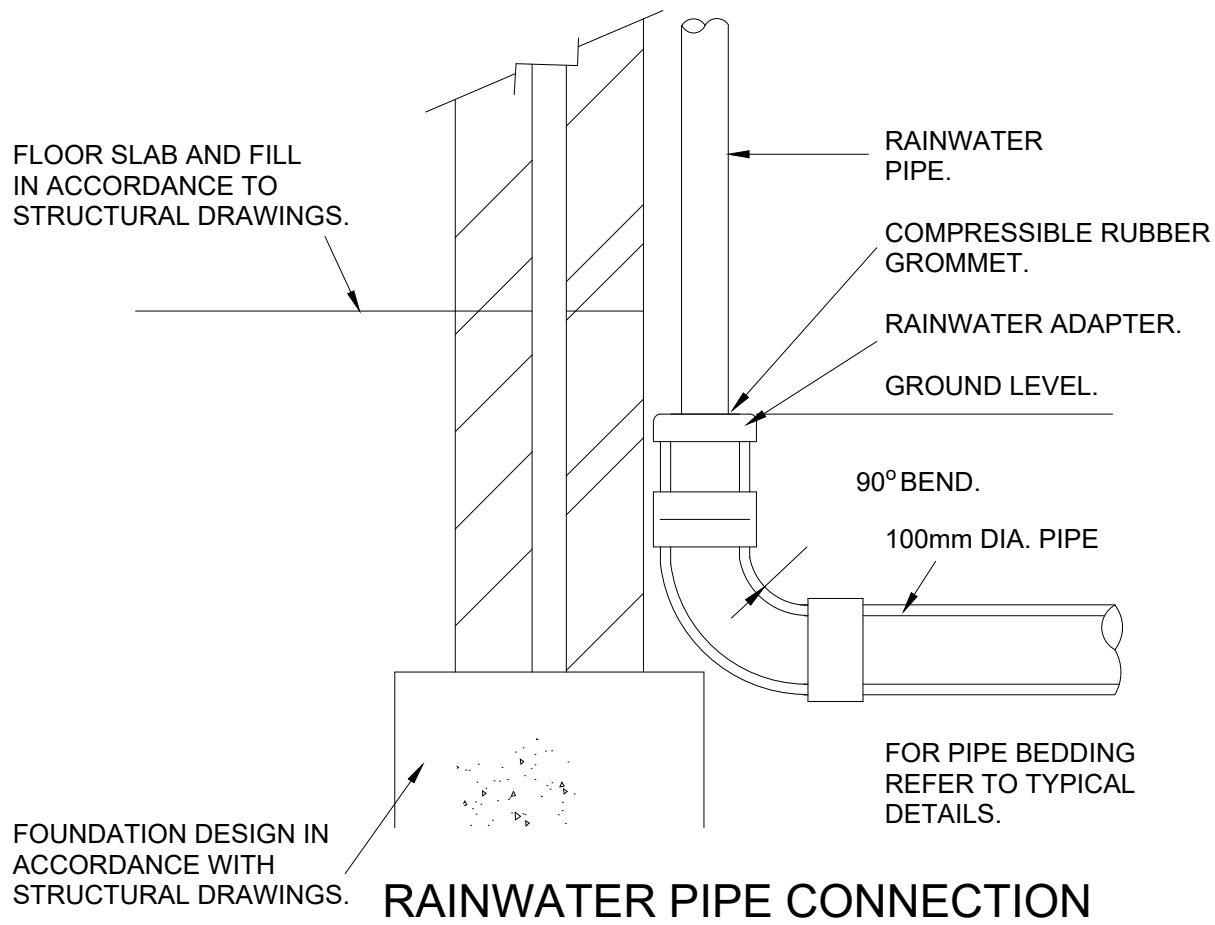
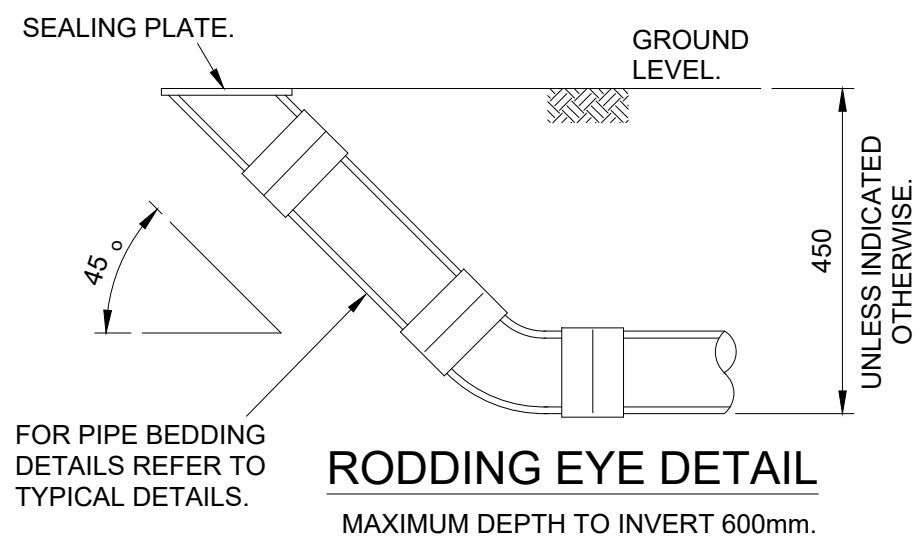


DRAINAGE CHANNEL



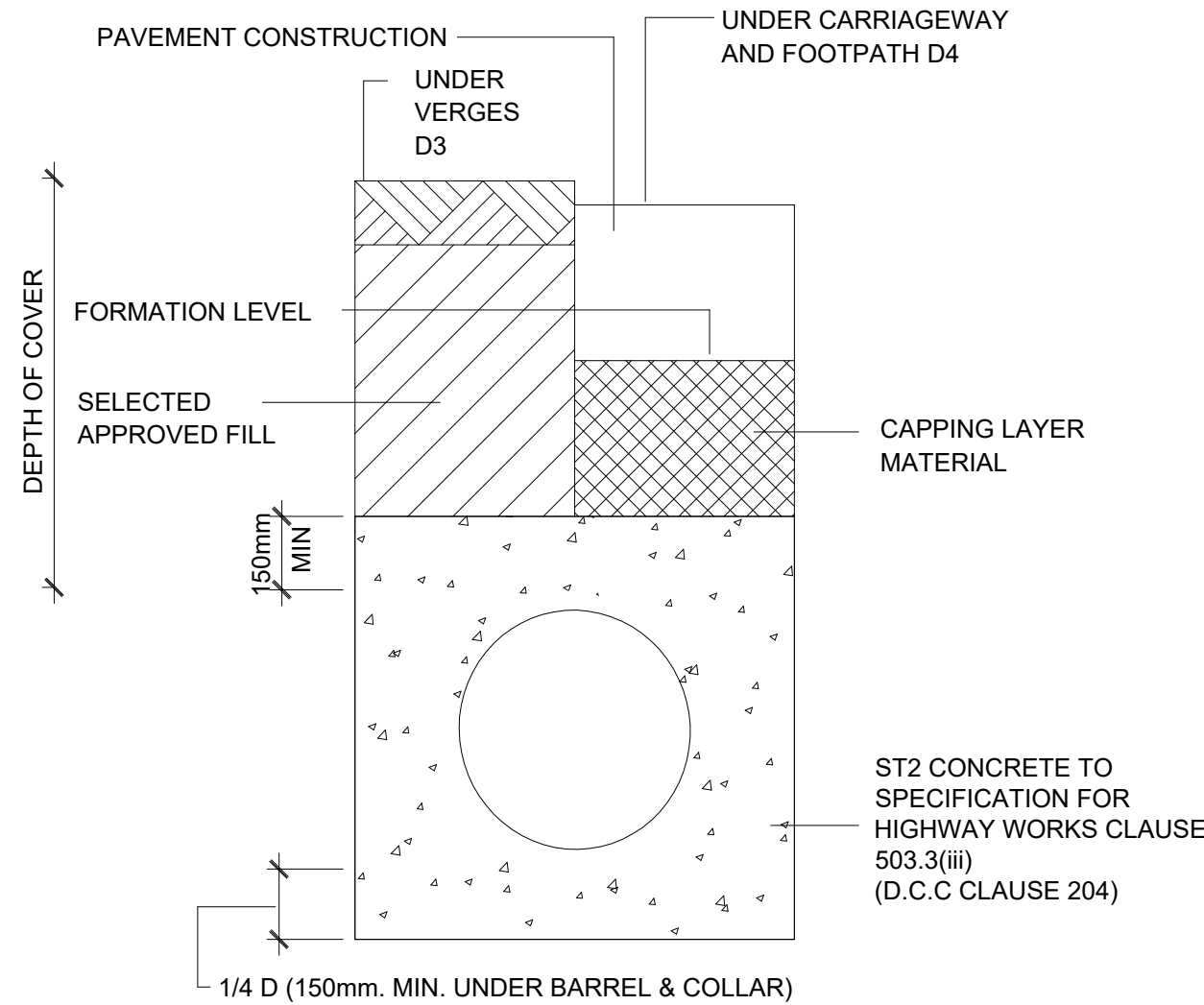
INSPECTION CHAMBER - IC3 - VEHICULAR ACCESS

LOCATED WITHIN PRIVATE AREAS ACCESSIBLE TO MOTOR VEHICLES
FOR DEPTH TO INVERT GREATER THAN 1200mm ACCESS OPENING TO BE RESTRICTED TO 350mm.

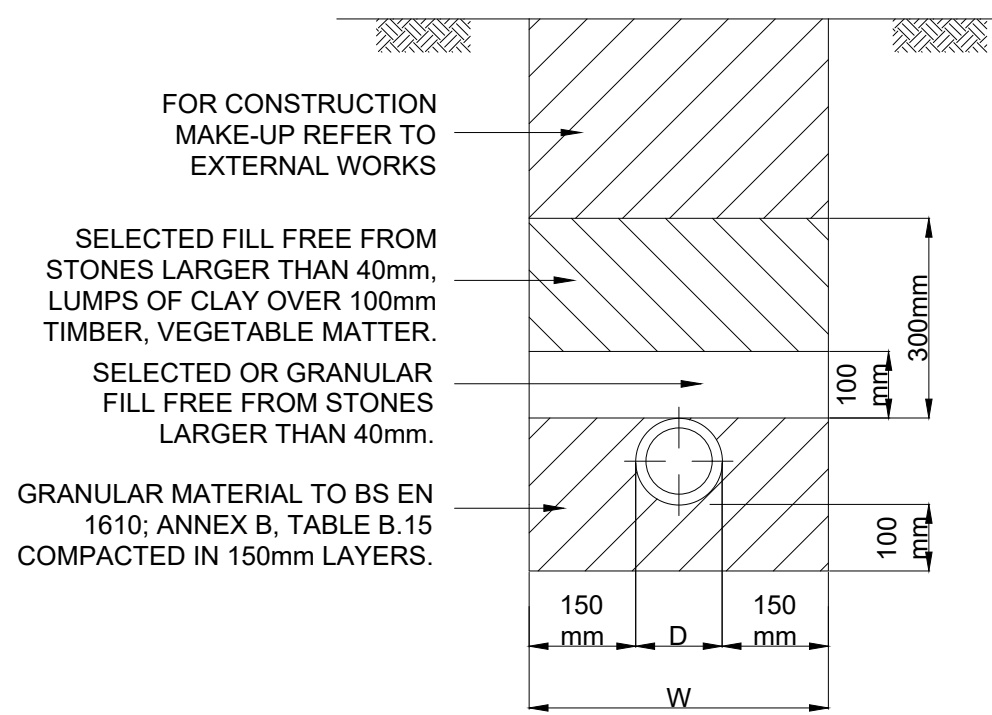


TYPICAL PIPE PROTECTION DETAIL (ALTERNATIVE DETAIL)

LOCATION: PEDESTRIAN AREAS: LESS THAN 0.6m OF COVER
LIGHT VEHICLE AREAS: LESS THAN 0.9m OF COVER
HEAVY VEHICLE AREAS: LESS THAN 1.2m OF COVER

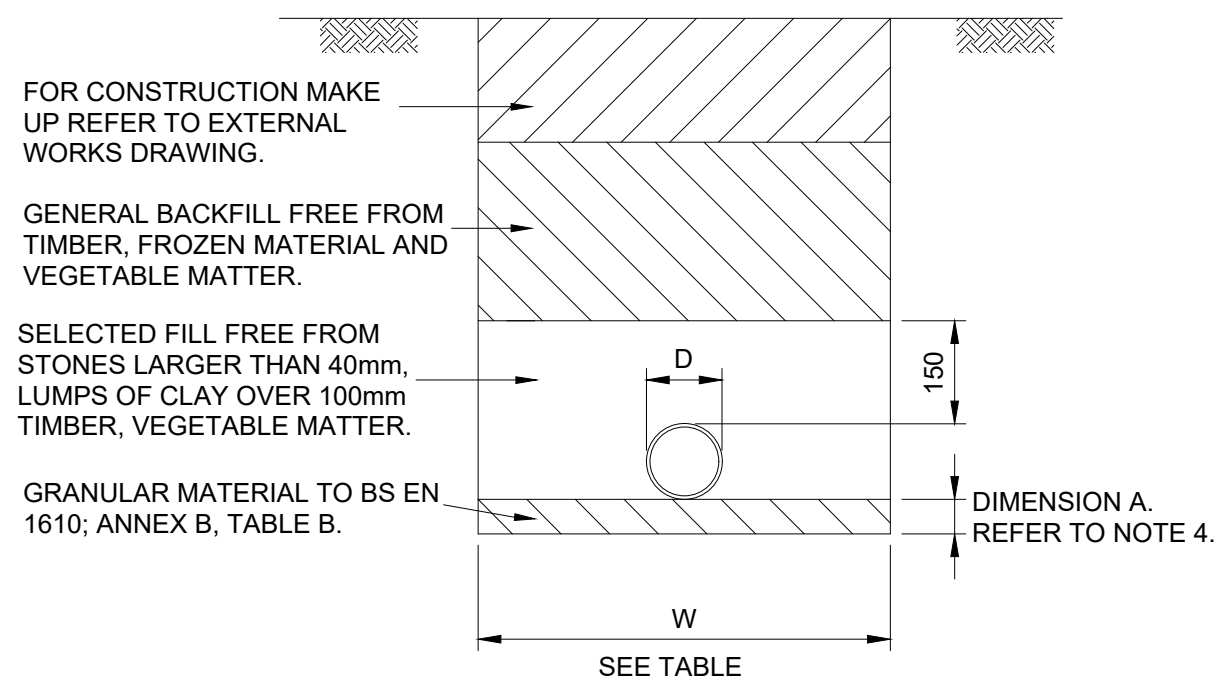


DESIGN D3 (UNDER VERGES < 0.9m COVER)
DESIGN D4 (UNDER CARRIAGEWAYS < 1.2m COVER)



TYPICAL PIPE BEDDING DETAIL: TYPE 3 (UPVC PIPES)

LOCATION: PEDESTRIAN AREAS: 0.6 m - 8.0 m DEEP.
VEHICLE AREAS: 1.2 m - 8.0 m DEEP.



TYPICAL PIPE BEDDING DETAIL: TYPE 1 (CLAY PIPES) CLASS F

LOCATION: PEDESTRIAN AREAS UP TO 8.0 M DEEP.
VEHICLE AREAS: 1.2 M - 8.0M (100mm DIA. PIPE).
1.2 M - 8 M (150mm DIA. PIPE).

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND SPECIFICATIONS ISSUED BY THE ARCHITECT, ENGINEER, SIGMA HOMES SPECIFICATIONS AND NHBC STANDARDS.
- IF THERE IS ANY AMBIGUITY BETWEEN THE SPECIFICATION AND THE DRAWINGS OR ANY OTHER DISCREPANCIES ARE FOUND THESE SHOULD BE REPORTED TO THE ENGINEER AND/OR CLIENT IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
- ANY SOFT SPOTS TO BE REMOVED AND REPLACED WITH TYPE 1 MATERIAL OR ENGINEER APPROVED MATERIAL.
- DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- DIMENSION A - 50mm FOR SLEEVED PIPES AND 1/6 OUTSIDE PIPE DIA. OR 100mm WHICHEVER IS THE GREATER FOR SOCKET PIPES.
- WHERE GROUND CONDITIONS DICTATE CONCRETE TO BE SULPHATE RESISTANT.
- ALL PIPES ENTERING INSPECTION CHAMBER / MANHOLE OR OTHER STRUCTURE TO INCORPORATE ROCKER PIPES MIN. 600mm LONG AND FLEXIBLE JOINTS
- DRAINS TO BE CONSTRUCTED UNDER DWELLINGS WITH SUSPENDED FLOOR SLABS SHOULD EITHER BE INSTALLED USING A PROPRIETARY HANGER SYSTEM WHERE "BEAM AND POT" OR SIMILAR CONSTRUCTION IS USED, OR SHOULD BE CAST INTO LOCAL SLAB THICKENING WHERE REINFORCED CONCRETE GROUND SLABS ARE TO BE POURED IN SITU.
- PIPE LAYING IN MADE / SOFT GROUND WHERE THE TRENCH FORMATION HAS LITTLE BEARING STRENGTH AND THEREFORE WILL NOT SUPPORT PIPE BEDDING MATERIAL EFFECTIVELY, IT IS NECESSARY TO PROVIDE A STABLE FORMATION BEFORE PIPE LAYING. SUCH CONDITIONS MOST COMMONLY OCCUR IN PEAT, SILTY GROUND, SOFT TO VERY ALLUVIAL CLAYS, RUNNING SAND OR IN ARTIFICIALLY FILLED GROUND. THE TRENCH FORMATIONS AND MANHOLE BASE SHOULD BE OVER-EXCAVATED BY 600-800MM, DEPENDING ON THE BEARING STRENGTH OF THE GROUND. GRAVEL REJECT MATERIAL OR SMALL HARDWARE, LESS THAN 75mm, IS THEN COMPACTED IN LAYERS TO FORM A FIRM TRENCH BOTTOM. A 50MM THICKNESS OF LEAN-MIX CONCRETE IS THEN PLACED AS BINDING. THE PIPE IS THEN LAID ON GRANULAR BEDDING MATERIAL. THE PIPE BEDDING CONSTRUCTION REQUIREMENTS ARE CALCULATED IN THE NORMAL WAY, BUT IT IS IMPORTANT THAT "WIDE TRENCH" DESIGN CRITERIA ARE USED BECAUSE "NARROW TRENCH" CONDITIONS CANNOT BE GUARANTEED IN THIS SITUATION.

Rev	Amendments	Dwn	Chk	App	Date
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Job Title
**FORMER SRUBLANDS NURSERY
ROUNDSTONE LANE, ANGEMRING**

Drawing Title
**DRAINAGE
CONSTRUCTION DETAILS (SHEET 1)**

Client
SIGMA HOMES

Scale NTS @A1	Date APR 2022	Designed AK
Drawn AK	Checked SW	Approved SW
Job No 21-254	Drawing No 21-254-501	Rev -