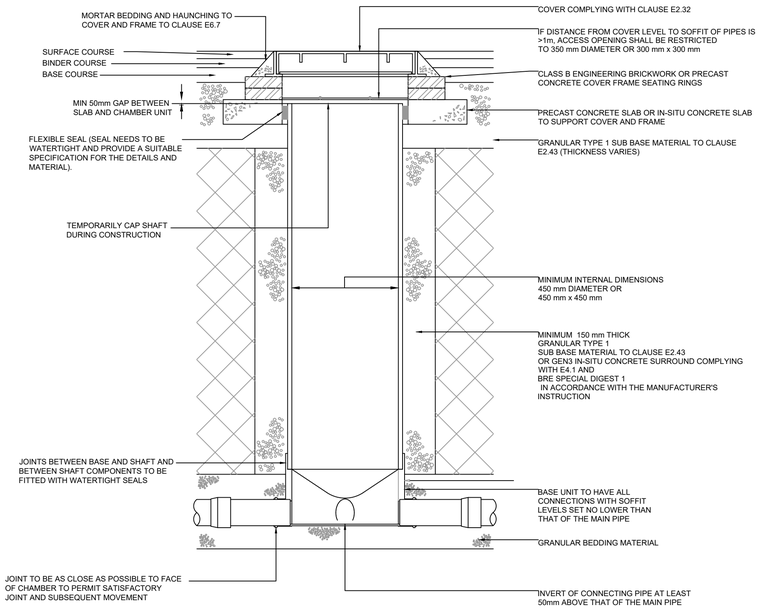
PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL



NOTE: WHERE THE ACCESS CHAMBER IS IN THE HIGHWAY (INCLUDING FOOTWAY), THE HIGHWAY AUTHORITY CAN HAVE SPECIFIC REQUIREMENTS

FIGURE B18
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

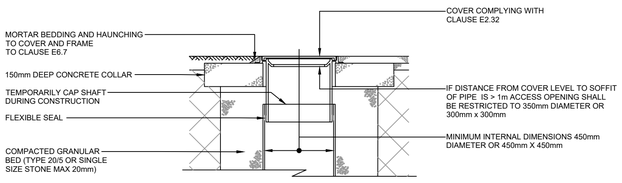
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 3m

FLEXIBLE MATERIAL CONSTRUCTION FOR USE IN AREAS SUBJECT TO VEHICLE LOADING

SCALE 1:20

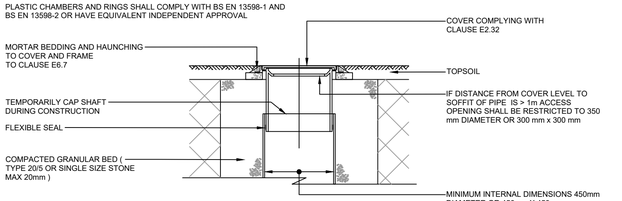
SITED IN DOMESTIC DRIVEWAYS OR FOOTWAYS

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



SITED IN DOMESTIC GARDENS

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

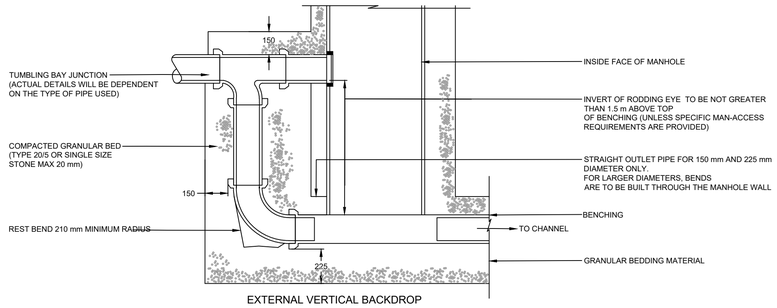


NOTE: WHERE THE ACCESS CHAMBER IS IN THE HIGHWAY (INCLUDING FOOTWAY), THE HIGHWAY AUTHORITY CAN HAVE SPECIFIC REQUIREMENTS.

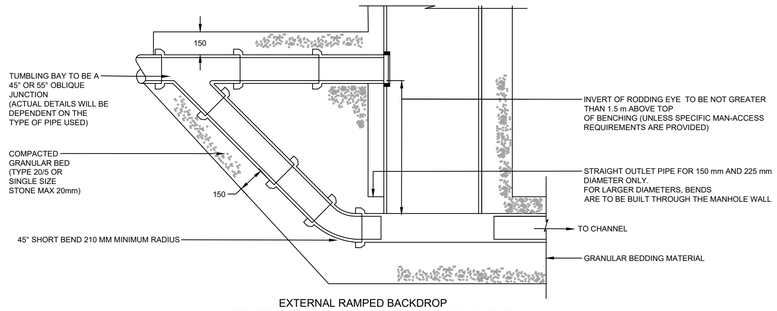
FIGURE B19
TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

FLEXIBLE MATERIAL CONSTRUCTION ALTERNATIVE TOP DETAILS
FOR USE IN AREAS OF LIGHT VEHICLE LOADING OR LANDSCAPED AREAS

SCALE 1:20



EXTERNAL VERTICAL BACKDROP



EXTERNAL RAMPED BACKDROP

NOTE: STEEPER GRADIENTS ARE PREFERRED TO THE USE OF BACKDROPS. TYPE OF BACKDROP TO BE USED TO BE AGREED WITH THE WATER COMPANY.

FIGURE B.17
TYPICAL VERTICAL AND RAMPED BACKDROP DETAIL (FLEXIBLE MATERIALS) FOR USE IN MANHOLES TYPES A TO D

SCALE 1:20

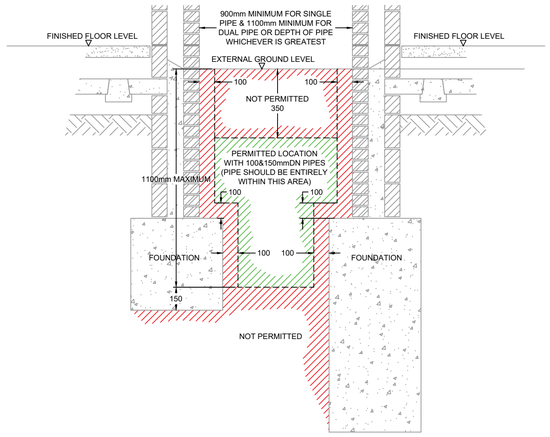


FIGURE B2
ILLUSTRATION OF THE PERMITTED LOCATIONS OF ADOPTABLE SEWERS AND LATERAL DRAINS BETWEEN BUILDING

SCALE 1:20

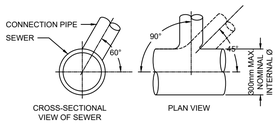


FIGURE B 26
CONNECTIONS TO SEWER

SCALE 1:20

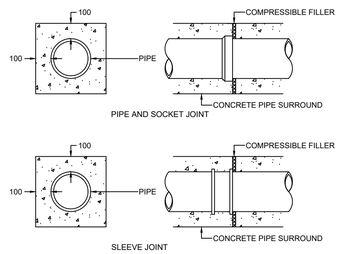
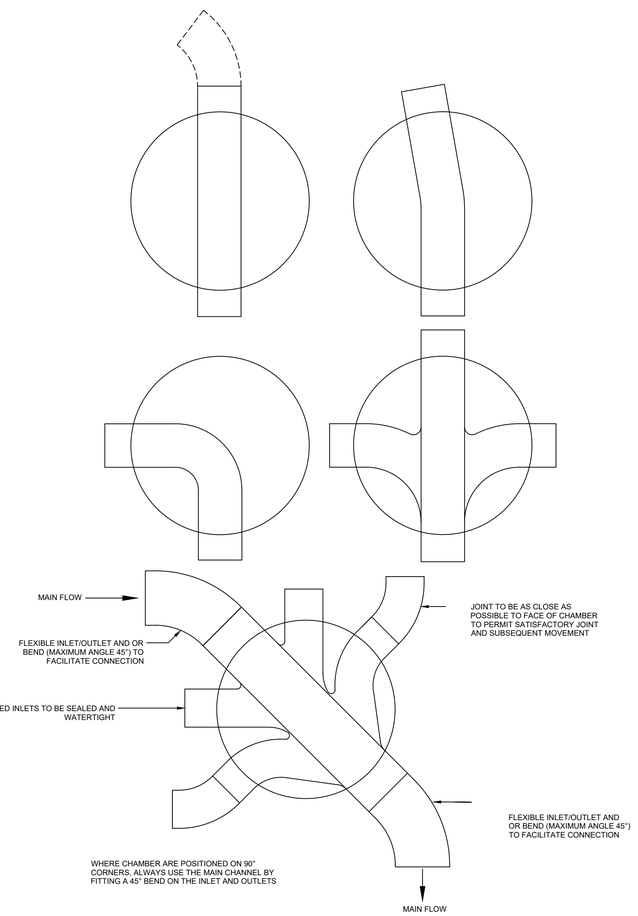


FIGURE B 28
JOINTS FOR ENCASED PIPE

SCALE 1:20



NOTE: WHERE A BEND IS USED IMMEDIATELY OUTSIDE THE MANHOLE THIS MAY BE USED AS THE ROCKER PIPE

FIGURE B22
TYPICAL BASE LAYOUTS FOR TYPE D CHAMBERS

SCALE 1:20

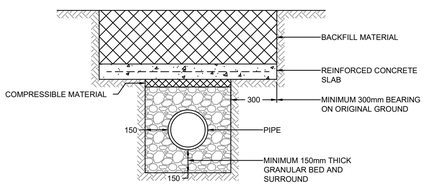


FIGURE B 27
PROTECTION OF PIPE LAID AT SHALLOW DEPTHS

SCALE 1:20

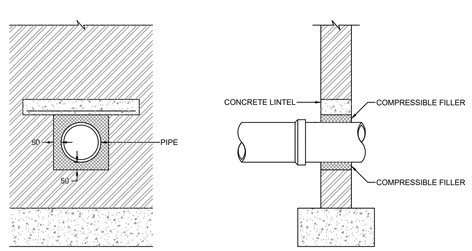


FIGURE B 29
PROTECTION OF PIPES PENETRATING SINGLE LEAF BOUNDARY WALLS

SCALE 1:20

Notes

1. All dimensions are in millimetres unless otherwise stated.
2. This drawing is to be read in conjunction with all other related drawings and specifications.
3. The drainage layout is the responsibility of the developer's engineer. The sewerage undertaker is responsible for the sewers and lateral drains shown on the drawing.
4. The engineer is to be notified of any discrepancies in the details shown on the drawings and any unrecorded connections encountered during the works.
5. The sewerage undertaker must be notified before any connection is made to confirming the point/cover of outfall into public sewers, watercourse or other outfall prior to construction the works commence.
6. Manholes shall be constructed to provide the minimum access for maintenance as detailed in the Sewers for Adoption and Building Regulations. Where the drawings indicate that the manholes are prefabricated and not for construction, should the contractor propose to construct manholes on site, approval must be obtained from the sewerage undertaker prior to the commencement of the works.
7. To protect the drainage system from construction site services, the contractor's attention is drawn to the requirement to provide adequate temporary silt traps on the site outlet. Silt traps shall be maintained during the contract and removed on completion of the works, only to be removed once the final cleansing of the manhole/chamber has been undertaken.
8. The design is based on the information available on the date of issue from the sewerage undertaker and other statutory undertakers. Liability for damage resulting from inaccuracy to be the available information from others.
9. Manholes and chambers to be constructed in accordance with BS EN 752:2017 Drains and Sewer Systems Outside Buildings.
10. Construction and materials of public surface, foul & combined water sewers to be constructed in accordance with Sewers for Adoption 8th Edition Appendix C" and in accordance with the standard details for pipe bed and surround.
11. All foul & combined drainage within 3m of buildings to be laid in accordance with Building Regulations Approved Document H, "BS EN 752:2017 Drains and Sewer Systems Outside Buildings".
12. Construction and materials of public surface, foul & combined water sewers to be constructed in accordance with Sewers for Adoption 8th Edition Appendix C" and in accordance with local sewerage undertaker requirements.
13. Domestic driveway, parking areas and yards with height restrictions to prevent entry by vehicles with a gross weight in excess of 2.5 tonnes.
14. Minor carriageway and footway, including cycleway, with height restriction 900mm. Agricultural & public highway access of 7.5 tonnes.
15. Carriageway with no restriction to prevent public access to vehicle with a gross weight in excess of 7.5 tonnes.
16. Backfill to drainage trenches under carriageways to be type 1 sub-base material, compacted in layers in accordance with the specification. Suitable material free from rubbish, organic matter, frozen soil, clay lumps and large stones shall be used in embankments and general fill.
17. A flexible joint shall be provided as close as is feasible to the outside face of any structure into which a pipe is built, connection with the satisfactory performance of the joint and structure. Pipes to be cut as follows:
    17.1. 150/225mm, 1500mm Long socket pipe.
    17.2. 300mm and above - 2000mm Long socket pipe.
    17.3. 75 mmDN and above - 1250mm Long socket pipe
18. Pipe invert and soffit levels are shown on the drawings. Where this cannot be achieved, the pipe shall be laid with the crown of the pipe not more than 100mm each side of the invert level. The extent of the concrete surround to be in accordance with the standard details for pipe bed and surround shown on the drawings.
19. Concrete mixes indicated on this drawing are designated mixes conforming to BS 8500-1:2006. All concrete to be site/plant assessed. Contractor should ensure adequate cover to reinforcement in accordance with BS EN 1992-1-1:2004.
20. All private manholes and inspection chambers to be constructed in accordance with Building Regulations Approved Document H & "BS EN 752:2017 Drain and Sewer Systems Outside Buildings".
21. All manholes and inspection chambers to be adopted to be constructed in accordance with Building Regulations Approved Document H & Sewerage Sector Guidance Appendix C" and in accordance with local sewerage undertaker requirements and standard details.
22. CCTV Survey of all the drainage should be carried out on completion of the building works and passed on to the client.
23. Rainwater down pipes are to connect to a drain (not a soil drain).

Key

- Manhole
- Rodding eye
- Gully
- Catchpit
- Rainwater down pipe
- Soil & vent pipe
- Ventilating pipe
- Flow direction
- Existing sewer
- Proposed foul sewer
- Proposed surface water sewer
- Proposed combined sewer
- Existing foul sewer
- Existing surface water sewer
- Existing combined sewer
- Proposed foul rising main
- Proposed surface water rising main
- Existing foul rising main
- Existing surface water rising main
- Existing combined rising main
- Proposed soakaway
- Existing soakaway
- Proposed attenuation tank
- Existing attenuation tank
- Proposed filter drain
- Existing filter drain
- Proposed swale
- Existing swale
- Proposed pond
- Existing pond
- Proposed reed bed
- Existing reed bed
- Proposed petrol interceptor
- Existing petrol interceptor
- Proposed oil interceptor
- Existing oil interceptor
- Proposed silt trap
- Existing silt trap
- Proposed grease trap
- Existing grease trap
- Proposed flow control device
- Existing flow control device
- Proposed pumping station
- Existing pumping station
- Proposed culvert
- Existing culvert
- Proposed ditch
- Existing ditch
- Proposed watercourse
- Existing watercourse
- Proposed land drain
- Existing land drain
- Proposed cut off ditch
- Existing cut off ditch
- Proposed overland flow route
- Existing overland flow route
- Proposed flood exceedance route
- Existing flood exceedance route
- Proposed flood defence
- Existing flood defence
- Proposed culvert
- Existing culvert
- Proposed bridge
- Existing bridge
- Proposed ford
- Existing ford
- Proposed weir
- Existing weir
- Proposed sluice gate
- Existing sluice gate
- Proposed penstock
- Existing penstock
- Proposed flap valve
- Existing flap valve
- Proposed non-return valve
- Existing non-return valve
- Proposed pressure reducing valve
- Existing pressure reducing valve
- Proposed pressure sustaining valve
- Existing pressure sustaining valve
- Proposed pressure relief valve
- Existing pressure relief valve
- Proposed pressure control valve
- Existing pressure control valve
- Proposed pressure regulating valve
- Existing pressure regulating valve
- Proposed pressure reducing valve
- Existing pressure reducing valve
- Proposed pressure sustaining valve
- Existing pressure sustaining valve
- Proposed pressure relief valve
- Existing pressure relief valve
- Proposed pressure control valve
- Existing pressure control valve
- Proposed pressure regulating valve
- Existing pressure regulating valve

STREAMLINE CONSULTANTS
WATER AND DRAINAGE SOLUTIONS

Preliminary

Revisions

P01 - 20th May 2025 - First Issue

Bower Edleston Architects

Land Adjacent to Wilmayne, Penley

Drawing Scale - 1:100 at A1

Proposed Drainage Construction Details

D-0504

00020-SC-XX-XX-DR-D-0504