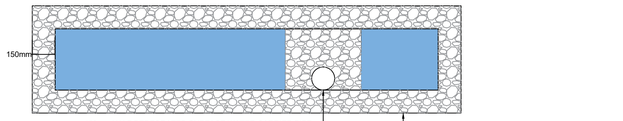
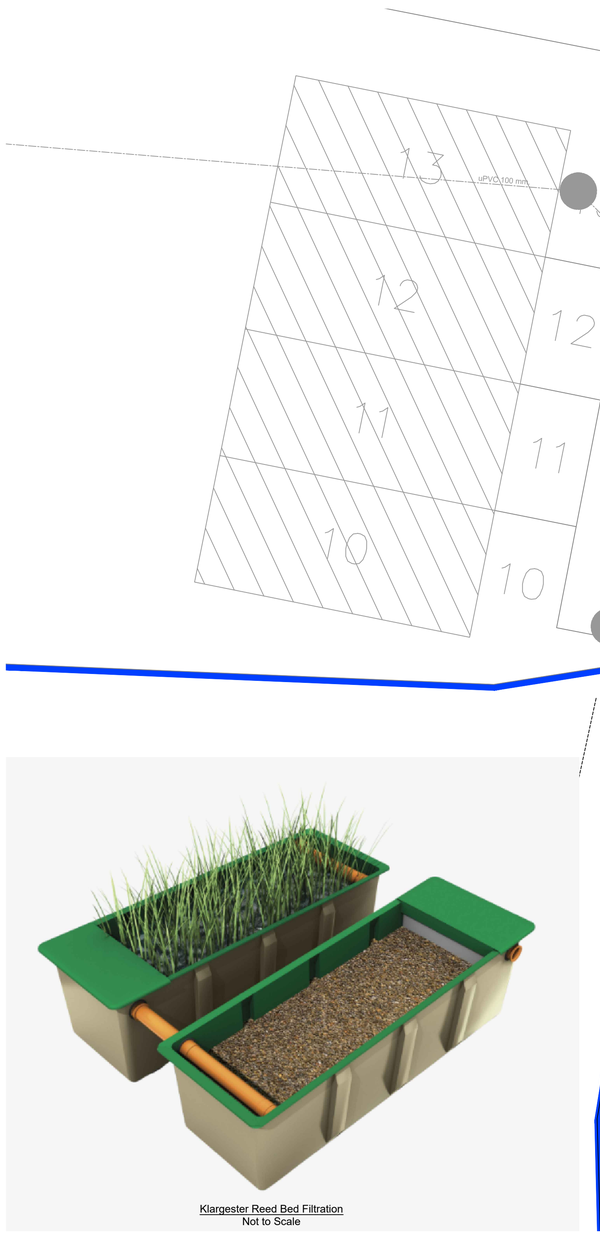


Section A-A - Through Cellular Infiltration Structure
Scale 1:20



Section B-B - Through Cellular Infiltration Structure
Scale 1:20



Klargester Reed Bed Filtration
Not to Scale

STREAMLINE CONSULTANTS
WATER AND FLOOD RISK SOLUTIONS

1. Water drainage is considered a 0° drop invert for proposed above proposed foul water level.
2. Minimum depth of cover to the crown of gravity pipes with pedestrian areas should be 600mm and 900mm with vehicular areas in accordance with Building Regulations Approved Document H and Sewers for Adoption 8th Edition.
3. Minimum depth of cover and subformed without any possibility of vehicular access.
4. Domestic driveway, parking areas and yards with height restrictions to prevent entry by vehicles with a gross weight in excess of 2.5 tonnes.
5. Domestic driveway, parking areas and yards with height restrictions to prevent entry by vehicles with a gross weight in excess of 2.5 tonnes. Access for maintenance and emergency vehicles only. Constructed to withstand occasional access by vehicles with a gross weight in excess of 7.5 tonnes.
6. Backfill to drainage trenches under carriageways to be Type 1 sub-base material, compacted in accordance with Specification for Highway Works. Acceptable material free from rubbish, organic matter, friable soil, clay lumps and large stones and compacted in accordance with Specification for Highway Works.
7. 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. Only to be removed once the final cleansing of the manhole is complete.
8. The design is based on the information available on the date of issue from various sources and is provided in good faith. Streamline Consultants accept no liability resulting from inaccuracies to the available information from others.
9. All works proposed to be undertaken in the vicinity of existing public sewers shall be subject to the requirements of Sewers for Adoption 8th Edition. This drawing is to be read in conjunction with all other related planning and engineering drawings.
10. The drainage contractor is responsible to making any application to any sewerage undertaker prior to construction of any connection into a public sewer.
11. The engineer is to be notified of any discrepancies in this details shown on the drainage and any unrecorded connections must be shown on the drawings.
12. The existing drainage is assumed to be in good working order. Where the existing drainage is proposed to be used for the proposed development, the condition and capacity of the existing drainage must be investigated and recorded prior to the commencement of any new drainage. Any defects found during the investigation must be reported to the Engineer before any further work is undertaken. Where the existing drainage is found to be defective, it must be repaired or renewed to the approval of the Engineer.
13. Any existing drainage to be abandoned is to be grouted up at the footway crossing or highway boundary.
14. Where proposed drainage is proposed to be located within the influence of trees, reference should be made to the National House Building Council (NHBC) Standards Chapter 4.2 Building Near Trees.
15. Minimum depths of cover to the crown of gravity pipes with pedestrian areas should be 600mm and 900mm with vehicular areas in accordance with Building Regulations Approved Document H, Sewers for Adoption 8th Edition and Sewers Systems Outside Guidance Appendix C7.
15.1. Construction and materials of public surface, foul & combined water sewers to be in accordance with the Specification for Highway Works and Sewers for Adoption 8th Edition & 'Model Design Specification for Wastewater Pumping Stations'.
15.2. Construction and materials of public surface, foul & combined water sewers to be in accordance with the Specification for Highway Works and Sewers for Adoption 8th Edition & 'Model Design Specification for Wastewater Pumping Stations'.
15.3. Concrete shall be in accordance with Building Regulations Approved Document C 'Site preparation and resistance to contaminants and moisture' Table C1 Class of Mix for Concrete Cover to Reinforcement. Minimum cement content 300kg/m3 at mm 11/20 for 32 exemption to class.
15.4. Minimum cement content 300kg/m3 at mm 11/20 for 32 exemption to class.
15.5. Minimum cement content 300kg/m3 at mm 11/20 for 32 exemption to class.
16. Backfill to drainage trenches under carriageways to be Type 1 sub-base material, compacted in accordance with Specification for Highway Works. Acceptable material free from rubbish, organic matter, friable soil, clay lumps and large stones and compacted in accordance with Specification for Highway Works.
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. Only to be removed once the final cleansing of the manhole is complete.
17.1. 150x150mm, 1500mm Long socket pipe
17.2. 150x150mm, 1500mm Long socket pipe
17.3. 75 l/min@2M and above - 1250ml Long socket pipe
18. Flow controls to take advantage of 80mm diameter orifice plate, set at the lower pipe and backs bottom of the upper pipe. Where this cannot be achieved, the orifice plate shall be set at the lowest point in the chamber with not less the 1000mm each side of the control point. The extent of the concrete surround to the chamber shall be extended to encase the control point. Details should be in accordance with the standard details for pipes laid and surrounded in concrete.
19. Concrete mixes indicated on this drawing are designated mixes conforming to BS 8500-1:2006. All concrete to be batch-weighed. Contractor should familiarise himself with the requirements of the Concrete Specification.
20. All private manholes and inspection chambers to be constructed in accordance with Building Regulations Approved Document H & 'Sfd 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 & Sewers for Adoption Sewage Sector Guidance Appendix C" and in accordance with Inset Specification for Highway Works Series 600 & 700.
22. CCTV Survey of all the drainage should be carried out on completion of the building works and passed on to the client.
23. Pre-cast concrete cover slabs to be laid to manufacturers to level new covers and ensure the full area rests and surfacing where required.

Preliminary

Revisions
P01 - 20th May 2025 - First Issue
P02 - 5th October 2025 - Planning Layout Revised

Bower Edleston Architects

Land Adjacent to Wilmayne, Penley

Drawing Scale - 1:100 at A1

Proposed Drainage Layout

D-0501

00020-SC-XX-XX-DR-D-0501