



- YORKSHIRE WATER SEWER NOTES**
- All adoptable sewer works and materials to be in accordance with Design and Construction Guidance. The relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and kitemarked.
 - Manhole covers shall have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
 - Filled ground must be filled and consolidated under the supervision of and to the satisfaction of Yorkshire Water before any sewer works are carried out.
 - Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off with therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with the regard to the disposal of the filter drain/land drainage run-off.
 - Cover slabs must carry the BS1 Kitemark or will be rejected by Yorkshire Water Inspectors. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a load bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), Technical Bulletin issued autumn 2004 for kitemarked cover slab opening sizes. As an alternative 600mm x 600mm access cover slabs are now available (must be kitemarked) and Yorkshire Water would accept without the requirement of the reducing piece.
 - Sulphate resisting cement (C20/DC2) and pre-cast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
 - The adoptable sewers should be located a minimum of 1m and manholes 0.5m from kerb faces and service margins.
 - Sewers must have 5 metres clearance from trees and hedges (please also refer to Figure 2.3 on page 33 in 'Sewers for Adoption' 6th Edition for restrictions on tree planting adjacent to sewers).
 - Sewers to be laid with Class 'S' Bedding (150mm granular bed and surround). Where depth of cover to top of sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular areas), then a concrete slab should be provided above the granular bed and surround.
 - Bedding and backfilling material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
 - The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
 - Yorkshire Water policy is not to accept Type 'c' brick manholes and 100mm diameter rings. Instead it is preferred that you use a type 'B' manhole with 1200mm dia or 1500mm dia rings with the opening sited over the channel where depth of cover to pipe soffit is 1.5m.
 - Adoptable plastic sewer pipes to be BS1 Kitemarked (certified to WIS 4-3-01 and BS EN13476). Adoptable plastic sewer pipes to be laid in 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channels in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the bedding.
 - The minimum crushing strength for clay pipes should be as follows:- 100mm dia 40kN/m, 150mm dia 40kN/m, 225mm dia 40kN/m and 300mm dia 72kN/m. The minimum crushing strength for concrete pipes should be - Class 120 to EN 1916(BS5911-1:2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
 - Where a B125 cover and frame has been approved, this MUST NOT be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.



KEY

- Adoptable surface water sewer
- Adoptable foul water sewer
- Public sewer diverted under Section 185 Agreement.

The position of SVP/sub stack and RWP are approximate only. Use Architects drawings to locate and check. All levels relate to the topographical survey carried out by CT Surveys and to OSBM by GPS.

B12 is flow control and emergency draw down chamber. 11.9% flow @ 2.2m head. Hydrostatic reference: MD-SHE-0736-1190-2500-1190

1	First issue for approvals.	25/01/23
Checked	Rev #	Description
		Date

Client
BIG CITY CO. MD

Job Title
**GARDEN HOUSE CLOSE
MONK BRETTON
BARNSELY**

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Drawing Title
HIGHWAYS AND DRAINAGE

**SECTION 104
SEWER AGREEMENT
PLAN**

Scale	Date	Drawn	Checked
1:250 @ A0	JANUARY 2023	HM	JB
Dwg No.	4019/104		Rev
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