



- Notes**
- This drawing is to be read in conjunction with all other relevant drawings.
For Drainage Works refer to the following drawings:-
520 - Drainage GA
521 - Drainage Details
522 - Drainage Tables
523 - Drainage Sections
525 - Drainage Sections
- Sewer Adoption Notes**
- All adoptable sewer works and materials to be in accordance with "Sewerage Sector Guidance - Appendix C" v2.1, the relevant British/European and Yorkshire waters standards/requirements/addendum and kitemarked.
 - Manhole covers shall/must have a clear opening of 600mm and shall be class D400 to BS EN 124 and BS EN 7903 with 150mm deep frames.
 - Filled ground must be filled and consolidated under the supervision 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 will therefore be required, liaising with the local authority, land drainage section with regard to the disposal of the filter drain/land drainage run-off.
 - The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
 - Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height.
 - Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provide above granular bed and surround.
 - There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm: if crossover is near the rocker then the clearance needed may be increased".
 - Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
 - Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS/EN13476). Adoptable plastic sewer pipes to be laid in maximum 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 channel in manholes.
 - The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/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.
 - Yorkshire water policy is not to accept type "C" brick manholes and 1050mm Dia. manhole rings. It is preferred that type "B" manholes be used with 1200mm dia. or 1500mm dia. rings, with the opening sited over the channel where depth of cover to pipe soffit is 1-1.5m.
 - 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.

Updated in-line with comments from YW.	C	25/05/2023	KA	KGP
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DESCRIPTION	REV	DATE	CHK	APR

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PROJECT
Residential Development
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DRAWING TITLE
S104 Flow Control MH
GA & Details

CLIENT
ABM Developments Ltd.

STATUS
Information

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