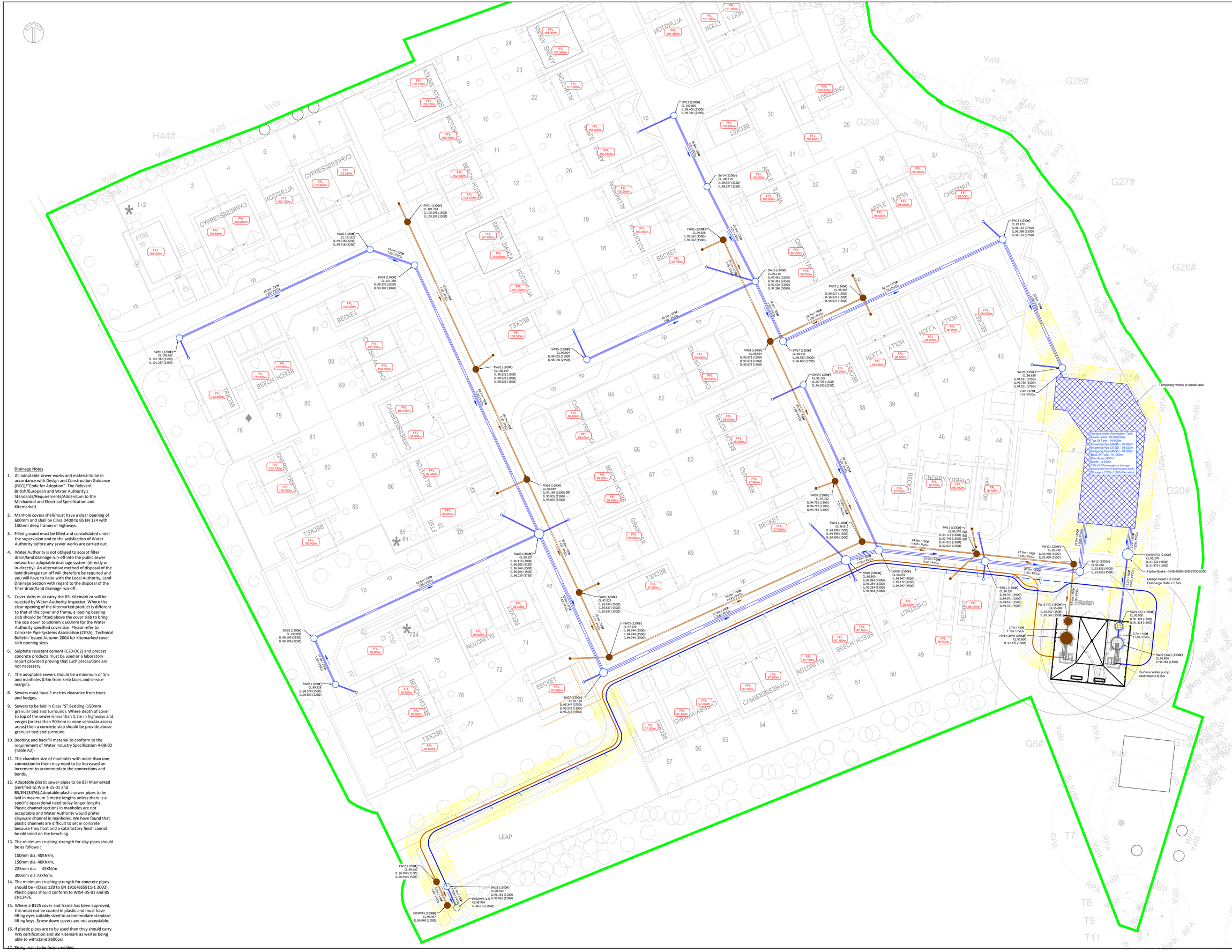

Drainage Notes

1. All adoptable sewer works and material to be in accordance with Design and Construction Guidance (DCG)/"Code for Adoption". The Relevant British/European and Water Authority's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
2. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Water Authority before any sewer works are carried out.
4. Water Authority is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
5. Cover slabs must carry the BSI Kitemark or will be rejected by Water Authority Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Water Authority specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes
6. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
7. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
8. Sewers must have 5 metres clearance from trees and hedges.
9. 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.
10. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
11. 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.
12. 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 Water Authority would prefer clayware channel 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 benching.
13. The minimum crushing strength for clay pipes should be as follows :

    100mm dia. 40KN/m,
    150mm dia. 40KN/m,
    225mm dia. 45KN/m
    300mm dia.72KN/m.
14. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS4-35-01 and BS EN13476.
15. 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.
16. If plastic pipes are to be used then they should carry WIS certification and BSI Kitemark as well as being able to withstand 2600psi
17. Rising main to be fusion welded.

Do Not Scale

Drawing Notes

Drawing & schedule based on the following information:

Architect's drawing/model:	**VWYM2-PHS-XX-XX-DR-A-07000_Site Layout_For Information**
Revision:	**P13**
Topographic Survey:	**4830_ZS Surveys - Topo and Utility Mapping Survey (April 2026)_For Information_1_0**

Residual Hazards

Health, Safety & Environmental Notes

Key

- Site Boundary
- Existing FW sewer
- Existing SW sewer
- Adoptable SW sewer
- Adoptable FW sewer
- Sewer easement
- Adoptable SW Rising Main
- Adoptable FW Rising Main

Surface Water Drainage

The surface water drainage has been designed to drain by gravity too an attenuation tank located in the landscaping in the East of the development. The Surface Water will then be restricted to 5.5l/s via a flow control before being pumped at a peak flow rate of 6.0l/s. The Surface Water rising main will terminate in the South-West of the development before having a gravity connection into the existing Surface Water chamber located within the boundary.

Flow Control Rate	= 5.5l/s
Pumping Rate	=6.0l/s
Impermeable Area (INC Urban Creep 10%)	=1.4Ha
Attenuation Tank	
Plan Area	= 545m²
Depth	= 2.5m
Volume (95% Porosity)	= 1294m³

The proposed surface water drainage strategy has been sized to cater for 1in100yr storm + 40%CC + 10%UC.

Foul Water Drainage

The Foul water drainage has been designed to drain by gravity to an adoptable pumping station located in the of the East of the development. The Foul Water will then be pumped at a flow rate of 6.0l/s. Which has been agreed with YW. The Foul Water rising main will terminate in the South-West of the development before having a gravity connection into the existing Foul Water chamber located within the boundary.

Date	Description	By	Chk	Rev
19.08.26	Rising Main route amended to suit LA layout	BHB	AL	P4
03.08.26	Revised to suit YW Correspondence	BHB	RP	P3
31.07.26	Revised to suit latest site layout	BHB	TT	P2
16.06.26	Initial Issue	BHB	TT	P1

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Project
Wakefield Road, Mapplewell - Phase 2

Title
Drainage Strategy

Client
Vistry

Scale @ A0	Initial author	Initial checker	Approver	Initial Date
1:250	BHB	TT	RP	JUN 26

Status	Purpose	Adept Project Number
S2	Preliminary	08.26003

Project Originator-Functional Breakdown-Spatial Breakdown-Form-Discipline-Number

	Rev.
08.26003-ACE-ZZ-ZZ-D-C-1000	P4