CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Notes

- All adoptable sewer works and material to be in accordance with Sewers for Adoption 6th Edition, The Relevant British/European and United Utilities' Standards/Requirements/Addendum and Kitemarked.
- Manhole covers shall have a minimum 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 and to the satisfaction of United Utilities before any sewer works are carried out.
- United Utilities 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.
- Cover slabs must carry the BSI Kitemark or will be rejected by United Utilities 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 United Utilities specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
- Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 6 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)
- Unless noted otherwise, sewers are to be laid in Class S bedding in accordance with United Utilities standard details. Refer to RSK drawing 40-10 for pipe embedment details. 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 bed and surround shall be provided.
- United Utilities policy is not to accept Type "C" brick manholes and 1050mm dia manhole 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 - 1.5m.
- All lateral drains to be 150mm dia.

Legend:

- Development Boundary
- FFL 93.000 — Finished Floor Level
- Proposed SW rodding eye & drain
- Proposed SW inspection chamber and drain
- Proposed private road gully
- Proposed linear drainage channel
- Proposed FW mini access chamber
- Proposed FW inspection chamber & drain
- Proposed adoptable FW Inspection Chamber/manhole and drain

All surface water on site to remain private/under maintenance company

All drains 100mmØ unless stated otherwise

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
P1	03.03.20	First Issue	LGS	GPY	

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Client: MACBRYDE HOMES

Project Title: Wrexham Road, Holt

Status: Detailed Design

Drawing Title: Plot Drainage

Drawn	Date	Checked	Date	Approved	Date
LGS	DEC 19	GPY	DEC 19		

Scale	Org.Size	Dimensions
1:250	A0	m

Project No.: 881986
Drawing File:
Drawing No.: 40-06
Rev.: P1

Scale 1:500
0 5 10 15 20 25m

File Location: L:\001 JOBS\ LIVE WIGAN\881986 - WREXHAM ROAD, HOLT, MACBRYDE HOMES\GRAPHWRK\PRASTRUCTURE\40-06 PLOT DRAINAGE RE DO.DWG