

File Location: L:\001_008_LIVE_VICARAGE219 - NORTHENDEN, MANCHESTER\PROJECTS\STRUCTURE\001 - ADAPTABLE DRAINAGE LAYOUT.DWG



Important Note
Prior to any Adoptable drainage groundworks being undertaken on site the contractor must confirm back to RSK the precise as-built or existing invert level, pipe diameter and condition of the receiving drainage system, watercourse and / or manhole in order to allow design reviewed if required.
All proposed private drainage groundworks must also prior to construction start on site first establish that a viable outfall connection can be made into the receiving drainage system. The contractor must also immediately advise RSK should any discrepancy or perceived conflict between as-built level and proposed design level information become apparent / identified during the implementation of any ongoing drainage / groundworks construction.

Please telephone RSK - Land and Development Engineering on 01942 493255

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.

Legend

- Proposed foul water sewer and manhole by Developer
- Proposed surface water sewer and manhole by Developer
- Proposed surface water rising main
- Existing Combined water sewer and manhole
- Proposed foul water dragouts
- Proposed surface water dragouts
- Demarcation for Build Phases
- Proposed S104 Drainage Easement
- FFL 102.85 Finished Floor Level
- Area indicates the proposed plots to be drained via Soakaways

- 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 40-17 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.

Rev.	Date	Amendment	Drawn	Chk'd	App'd
P5	12.08.22	Revised following the addition of impermeable areas plots 124-125, 140-149 and 214-217 added to adoptable system	AP	MAR	
P4	03.05.22	Revised to new planning layout Rev L	AP	MAR	
P3	18.03.22	Revised to planning layout Rev L and comments from MOC dated 18.03.22	AP	MAR	
P2	24.01.22	Revised following client comments	AP	MAR	
P1	21.10.21	Final issue	AP	MAR	

RSK
LAND & DEVELOPMENT ENGINEERING LTD
Spring Lodge
112 Chester Road
Hesley
Cheshire, W40 6AR
United Kingdom
Tel: +44 (0) 1928 726006
Fax: +44 (0) 1928 726033
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client
miller homes

Project Title
Northenden
Manchester

Status
INFORMATION

Adoptable Drainage Layout

Drawn	Date	Checked	Date	Approved	Date
AP	Oct 20	MAR	Oct 20		
Scale	Orig Size	Dim	Dimensions		
1:500	A0		mm		
Project No.	Drawing File				
882187					
Drawing No.	Rev.				
40-01	P5				

