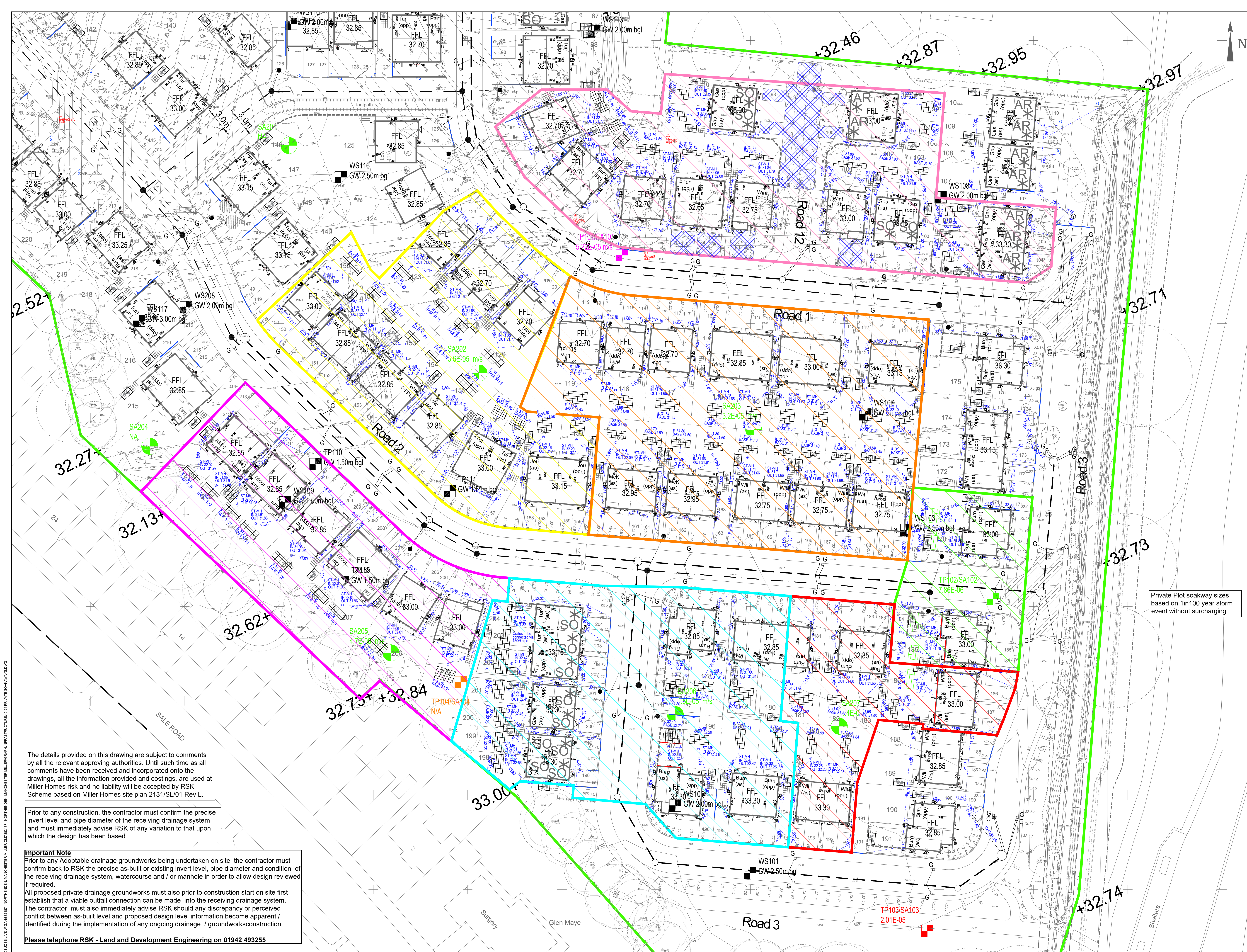




CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Anomalous 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 design shown on this drawing. Anomalous 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:

1. This drawing is to be read in conjunction with all engineering drawings, standard details and specifications for this job.

2. This drawing has been prepared for house drainage purposes only, and must not be used for house setting out.

3. All drains and connections to be 100mm diameter, unless shown otherwise.

4. This drawing is schematic for clarity, and where possible drains should be laid within 2m of houses, and connections kept as short as possible.

5. Where pipes pass under buildings, unless beam & block floors are used, they are to be surrounded in concrete.

6. All branch drains, or connections, are to discharge to the collectors obliquely, and in the direction of the main flow.

7. House levels are Finished Floor Levels (FFL's).

8. Figures quoted next to inspection chambers' rodding eyes are invert levels, in metres AOD.

9. Private footpaths are to be laid with a crossfall to allow drainage to soft landscaped areas.

10. Where possible all drainage runs shall be kept a minimum of 4.0m from any existing tree that is to be retained.

11. All drainage design is subject to technical approval, no connections shall be made to any public sewer without written consent from the drainage authority.

12. The location of R.W.P's and waste/S.V.P's are subject to confirmation by the Architect / Services Engineer.

13. Any inspection chamber in landscaped area to have an A15 cover.

14. Any inspection chamber in handstanding area to have a B125 cover.

Drainage Legend:

Proposed SW rodding eye & drain

Proposed SW inspection chamber to be 450mm dia

Polystyrene Lite Cells (PSM2) geo-cellular infiltration system with 4500 advanced silt trap (or similar/ other manufacturers are available) 1 segment = 0.5m² (1 grate)

Cellular infiltration crates to be stacked two deep

Drives to be constructed using a permeable paving system/Alternatively a system such as FormFave could be used and replace the soakaways

ACO Drainage Channel

Private Gully

Dash Channel (water to drain to soft landscaping)

Soakaways design and sizes in this area are influenced by TP102/SA102 that recorded an infiltration of 7.86E-06m/s

Soakaways design and sizes in this area are influenced by SA202 that recorded an infiltration of 6.06E-05m/s

Soakaways design and sizes in this area are influenced by SA203 that recorded an infiltration of 3.20E-05m/s

Soakaways design and sizes in this area are influenced by SA205 that recorded an infiltration of 4.70E-05m/s

Soakaways design and sizes in this area are influenced by SA206 that recorded an infiltration of 1.50E-05m/s

Soakaways design and sizes in this area are influenced by SA207 that recorded an infiltration of 1.40E-05m/s

Proposed Adoptable foul water sewer and manhole

Proposed watercourse diversion route

Proposed highway drain

Private Plot soakway sizes based on 1in100 year storm event without surcharging

P3	22.09.22	Revised soakways to plots 184-187, 170-171, and 14-15	AP	MAR	
P2	12.08.22	Revised following the addition of impermeable areas, plots 124-125, 146-149 and 214-217 added to adoptable system	AP	MAR	
P1	26.11.21	First Issue	AP	MAR	
Rev.	Date	Amendment	Drawn	CHKD	Appt

RSK

LAND & DEVELOPMENT ENGINEERING LTD

Spring Lodge
172 Chester Road
Hesley
Cheshire, W44 6AS
United Kingdom

Tel: +44 (0) 1928 726008
Fax: +44 (0) 1928 726033
Email: ldes@rsk.co.uk
Web: www.rsk.co.uk

Client

Project Title

Status

Drawing Title

Northenden
Manchester

INFORMATION

Private Soakaways

Drawn	Date	Checked	Date	Approved	Date
AP	Nov 21	MAR	Nov 21		
Scale	1:250	Orig Size	A0	Dimensions	mm
Project No.	862187	Drawing File			
Drawing No.	40-24-01				Rev. P3

Scale 1:250

0 2.5 5 7.5 10 12.5m

The details provided on this drawing are subject to comments by all the relevant approving authorities. Until such time as all comments have been received and incorporated onto the drawings, all the information provided and costings, are used at Miller Homes risk and no liability will be accepted by RSK. Scheme based on Miller Homes site plan 2131/SL/01 Rev L.

Prior to any construction, the contractor must confirm the precise invert level and pipe diameter of the receiving drainage system and must immediately advise RSK of any variation to that upon which the design has been based.

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

Please see 40-22-02 for continuation