

Notes:

- Foundations on this site are to be designed and constructed in accordance with NHBC: Chapter 4.2 (Building near trees) and Sharon Hosegood and D.F. Clark Bionomique Ltd Arboricultural Planning Statement. The soils underlying the site are of HIGH volume change potential in accordance with the findings of the MLM Phase 2 Geo-assessment and RSK site investigation report (pending).
- The foundation strategy indicated above is in accordance with proposed FFL's.
- Foundations are to be taken to non-desiccated soils, which should be taken as the greater of:
 - The minimum depths shown on the drawing, which are derived from chapter 4.2
 - 500mm below evidence of live roots or other signs of desiccation.
- It is essential to ensure that the foundation formation is inspected and approved by a competent person to ensure that there are no tree roots present. Alternatively material excavated from the trench bottom should be examined.
- If there is any doubt regarding the foundation zoning, RSK should be contacted for advice.
- This foundation zoning plan is to be read in conjunction with recommendations made within MLM site investigation report.
- This foundation zoning plan has been produced based on the types and locations of trees shown within Arboricultural Survey, and does not allow for trees/hedges not shown within this assessment, including areas of proposed planting.
- Depths due to tree's are based on the mature tree heights noted in NHBC Chapter 4.2.
- If any of the assumptions above are found to be incorrect then the recommendations will need to be revised to suit.
- No assessment has been made for proposed planting. Foundations may need to be increased in areas adjacent to this planting.
- Heave precautions will be required for all piled plots within 1.0m tree influence area and for trench fill plots within 1.5m tree influence area.
- U.N.O steps to the underside of foundations are to comply with limits below. When the difference in formation level is:
 - Less than 450mm, provide step at mid span
 - More than 450mm but less than 900mm, provide steps at 1/3 length
 - More than 900mm and less than 1350mm, provide steps at 1/4 length
- Internal foundation depths are to be at the same depths as the externally connecting foundations. Where varying depths are shown on one side of the block, the foundation may be stepped in increments not greater than 450mm vertically and not less than 1000mm horizontally.
- The bearing pressure taken from the site investigation report is 90kN/m².
- All footings must be founded on consistent material. Where soft spots are encountered, the excavation must be deepened until a satisfactory founding material is reached. Localised soft spots are to be removed and replace by a suitable fill material and adequately compacted to the satisfaction of the Supervising Officer.
- Species of proposed trees should be selected such that they do not affect foundation depths when mature.
- Foundations to contain B785 mesh reinforcement top and bottom with main bars running along the line of the foundation. Cover to reinforcement to be a minimum of 50mm. This must be increased to 75mm where concrete is cast against earth faces (sides and underside if blinding is not used).

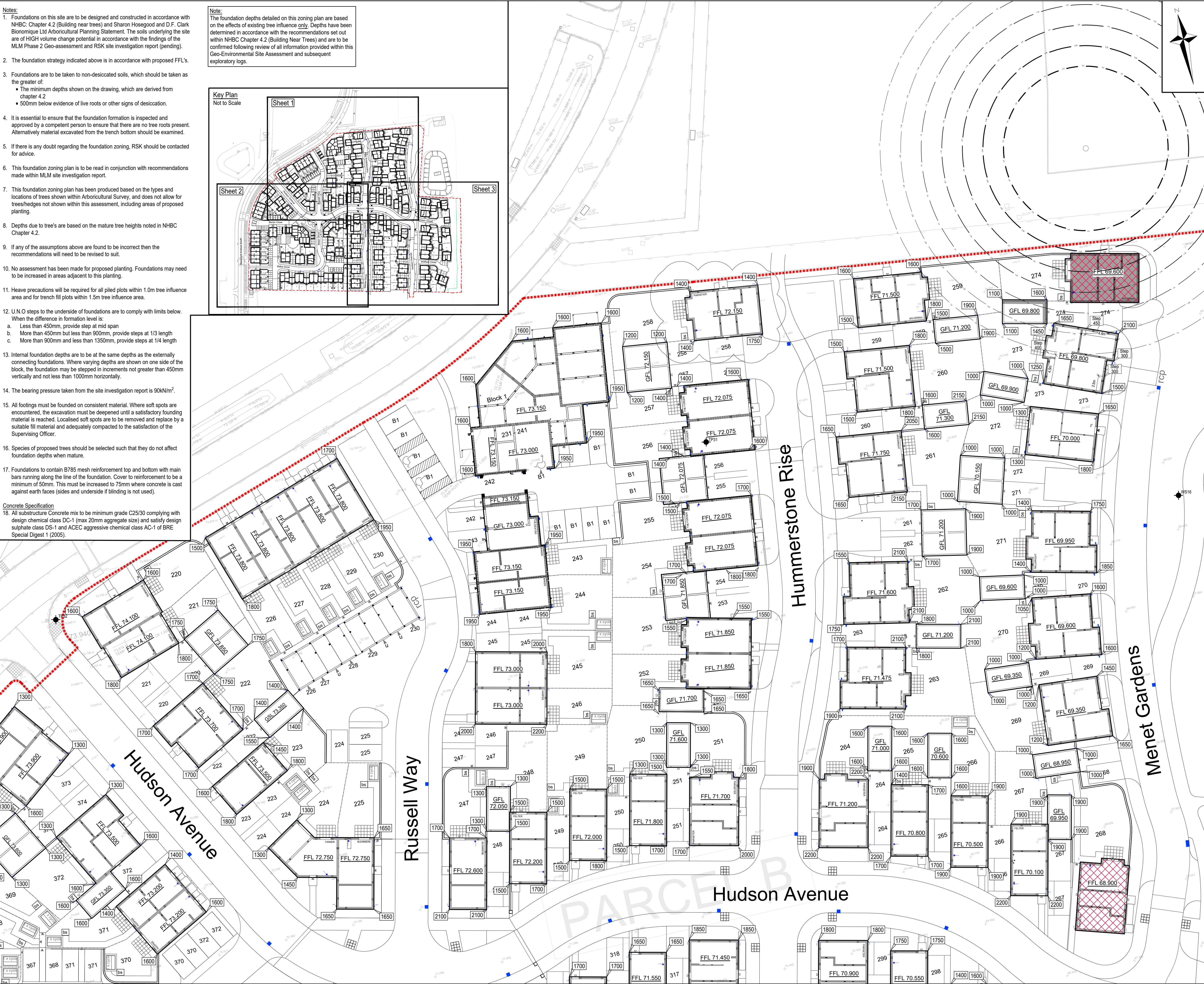
Concrete Specification

- All substructure Concrete mix to be minimum grade C25/30 complying with design chemical class DC-1 (max 20mm aggregate size) and satisfy design sulphate class DS-1 and ACEC aggressive chemical class AC-1 of BRE Special Digest 1 (2005).

Note:

The foundation depths detailed on this zoning plan are based on the effects of existing tree influence only. Depths have been determined in accordance with the recommendations set out within NHBC Chapter 4.2 (Building Near Trees) and are to be confirmed following review of all information provided within this Geo-Environmental Site Assessment and subsequent exploratory logs.

Key Plan
Not to Scale



CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

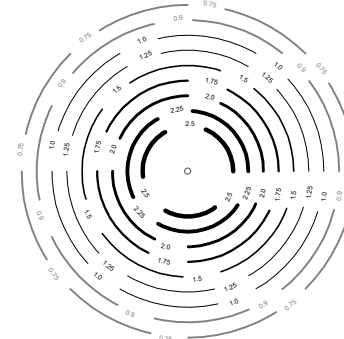
Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

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.

Foundation Depths Legend

Tree Influence Circles indicating foundation depth required in metres

Existing Trees



1400 Proposed typical depth of footing below FFL (in millimeters)

2500 Proposed depth of footing below FFL greater than 2.5m due to raising levels

Step 450 Proposed step in underside of trench fill foundation within Tree influence zone (in millimeters)

Steps to the underside of foundations outside of tree influence are to comply with the limits below. When the difference in formation level is:

- Less than 450mm, provide steps at mid point.
- More than 450mm but less than 900mm, provide steps at 1/3 length
- More than 900mm and less than 1350mm, provide steps at 1/4 length.

FFL XX.XXX Proposed finished floor level

Piled foundation units

Piled foundation units with Heave Precaution and Heave Guard around perimeter. (For details refer to RSK Drawing 134215-RSK-ZZ-ZZ-DR-S-1300)

Trench fill foundation extent of Heave precautions. (For details refer to RSK Drawing 134215-RSK-ZZ-ZZ-DR-S-1301)

Ground Investigation Location

Ground investigation locations taken from MLM Geoenvironmental Assessment 773587-MLM-ZZ-XX-RP-J-0002 Date: 2017. These locations are indicative therefore detailed information should be obtained from the report referenced above.

Rev	Date	Amendment	Drawn	Chkd	Appd
C04	30.07.24	Plot 258 layout updated		PKE	PKE VV
C03	10.11.2022	Levels Reverted		SJW	VV VV
C02	07.10.2022	Levels raised		SJW	VV VV
C01	25.05.2022	Issued for Construction		SJW	VV VV

RSK

LAND & DEVELOPMENT ENGINEERING LTD

18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP5 9RT
United Kingdom

Tel: +44 (0) 1442 437500
Fax: +44 (0) 1442 437550
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Bellway					
Project Title					
PARCEL B WHITTINGTON WAY					
Status					
CONSTRUCTION					
Drawing Title					
FOUNDATION DEPTHS PLAN SHEET 1					
Drawn SAY Date 01.22		Checked PKE Date 01.22		Approved VV Date 01.22	
Scale 1:250		Orig Size A1		Dimensions m	
Project No. 134215			File Name 134215-RSK-00-ZZ-DR-S-0001		
Drawing No.			Rev.		
134215	RSK	00	ZZ	DR	S 0001 C04
Project No.	Orig.	Vol./Sys.	Lev./Loc.	Type	Role
Draw. No.					
Scale 1:250					
02.557.51012.5m					