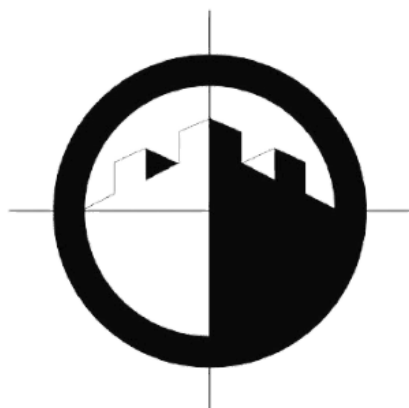




CASTLE SURVEYS LTD

ARBORICULTURAL METHOD STATEMENT

SITE LOCATION

5 Hornsey Rise, Wellesborough

ISSUE DATE

19th December 2023

SEED REF

1584-AMS-V1-A

CLIENT

Mr & Mrs Cartwright



MIDLANDS 01530 569338



LONDON 020 3728 2884



MANCHESTER 01615 490206



DOCUMENT CONTROL

Date	Author	Checked	Revision
19.12.2023	Sam Selwyn Dip Arb L4 (abc)	SH	Rev A

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LIMITATIONS

The contents of this report are valid at the time of writing. Castle Surveys Ltd shall not be liable for any use of this report other than for the purposes for which it was produced. Owing to the dynamic nature of trees, this report is valid for a period of 12 months.

Any alteration to the application site or development proposals could change the current circumstances and may invalidate this report and any recommendations made.

The tree survey was a preliminary assessment from ground level and observations were made solely from visual inspection for the purposes of an assessment relevant to planning and development. This report is not a tree risk assessment and should not be construed as such. While every attempt has been made to provide a realistic and accurate assessment of the trees' condition at the time of inspection, it may have not been appropriate, or possible, to view all parts or all sides of every tree to fulfil the assessment criteria of a tree risk assessment.

This is not an ecological report. The Wildlife and Countryside Act 1981 (as amended) and the Conservation of Species and Habitat Regulations 2017 make it an offence to disturb nesting birds or recklessly endanger a bat or its roost. Where the presence of birds or bats is suspected, a qualified ecologist or Natural England should be contacted for advice.

Contents

1. Introduction.....	3
2. Arboricultural Supervision.....	4
3. Method Statement.....	6
4. Tree Protection	7
5. References.....	8

Appendices

Appendix 1	Tree Protection Plan & Tree Schedule
Appendix 2	Temporary Ground Protection
Appendix 3	Foundation Design

Plans

Tree Protection Plan

Ref: 1584-TPP-003-B

Revision: B

1. Introduction

Background & Instruction

- 1.1.1. This report has been prepared by Sam Selwyn *Dip Arb L4 (abc), TechArborA*. Sam is a Technical Member of the Arboricultural Association (AA) and is therefore required to uphold the professional and ethical standards within the AA Code of Conduct. Sam holds the LANTRA certificate in Professional Tree Inspection.
- 1.1.2. Hinckley & Bosworth Borough Council granted planning permission on 24th October 2023 for “Single storey rear extension to garage” (App ref: 23/00834/HOU), hereafter referred to as the “Approved Development”.
- 1.1.3. This Arboricultural Method Statement (AMS) has been prepared by SEED Arboriculture Ltd to satisfy planning conditions No 4 & 5 of the Approved Development).

Reference Documents

- 1.1.4. **Table 1** provides a summary of documents used to produce this AMS.

Table 1 - Reference Documents

Document	Reference Number	Prepared By	Date
Existing Site Plan	-	-	June 2023
Proposed Plan	Design 4A-27.07.23	Rosenthal Architectural Services	July 2023
Foundation Plan	DWG. No 2023-459-SK02	GMB Consultancy	December 2023

2. Arboricultural Supervision

- 2.1.1. To ensure that all tree protection measures are correctly implemented, and no foreseeable damage occurs to retained trees, a scheme for arboricultural supervision and a process for monitoring and reporting has been set out within this AMS.
- 2.1.2. All elements of the arboricultural supervision will be undertaken by the retained arboricultural consultant or Project Arboriculturist (PA). The PA will be a suitably qualified arboriculturist from SEED Arboriculture Ltd.

Scheme of arboricultural supervision

- 2.1.3. Based on the provisional timings for the stages of development available at this time, a framework for site supervision has been provided in **Table 2**.
- 2.1.4. Details of any required variation of the supervision scheme will be reported to the Local Planning Authority by the Project Arboriculturist and agreed in writing where required.
- 2.1.5. There will be a phased approach to implementation of the Approved Development and current project timetables are available for the works associated with the construction of the proposed building and the associated landscaping within the Phase 1 boundary.
- 2.1.6. Timescales and further details for Tree Protection for later phases will be provided in line with the process outlined in this AMS.

STAGE - Construction Est. Start Date – TBC subject to construction schedule		
Operation	Details	Date
Initial Pre-commencement meeting	Initial pre-commencement meeting with key personnel responsible for implementation of development and tree protection. Personnel: Client, Site Manager, Main Contractor, Project Arboriculturist and Local Authority Tree Officer. Check locations of Tree Protection Fencing & Temporary Ground Protection as required for development. Agree extent of facilitation tree pruning as required for construction phase of development.	TBC subject to construction schedule



Monitoring of specific operations	Monitoring of site investigation to determine pile locations for pile foundation. Personnel: Site Manager, Main Contractor, Project Arboriculturist Feedback to structural engineer on any amendments required to foundation specification and design.	TBC as per construction schedule
Monitoring of specific operations	Monitoring installation of pile foundations. Personnel: Site Manager, Main Contractor, Project Arboriculturist	TBC as per construction schedule

3. Method Statement

Screw pile foundations

- 3.1.1. A foundation design has been provided by GMB Consultancy (ref: 2023 _459_SK02) which specifies the use of screw pile foundations and provides a floor slab specification. Please see the Foundation Plan attached at **Appendix 3**.
- 3.1.2. The current design requires further information on precise pile specification and locations. The drawing states "Excavation depth and level of slab to be agreed with Tree Specialist. Slab can be raised to reduce excavation depth if required."
- 3.1.3. The design will need to allow for the level of the piles and floor slab to be raised to require no more than c. 100mm of surface vegetation removal at any point within RPAs.
- 3.1.4. Site investigation to determine pile locations, and the subsequent installation of screw pile foundations within the RPA should be undertaken under the direct supervision of the Arboricultural Clerk of Works (ACoW).
- 3.1.5. Where roots are identified, these will be pruned back, making a clean cut with a suitable sharp tool (e.g. bypass secateurs or handsaw) as per the recommendations in Paragraph 7.2.2 of BS5837:2012.
- 3.1.6. If necessary and upon the recommendation of the ACoW, the location of piles will be adjusted if large diameter roots are discovered.

4. Tree Protection

Tree Protection Fencing

- 4.1.1. Due to the location of the trees and the existing boundary fence, the boundary fence will effectively act as Tree Protection Fencing during construction. There is sufficient room for storage of building supplies outside the RPAs of the retained trees.

Temporary Ground Protection

- 4.1.2. To reduce the likelihood of ground compaction through development there will be a requirement to install temporary ground protection in the locations illustrated on the Tree Protection Plan at Appendix 3.
- 4.1.3. BS5837:2012 - Paragraph 6.2.3.3 recommends that new temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.
- 4.1.4. The ground protection might comprise one of the following:
- a) For pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geotextile membrane;
- 4.1.5. For pedestrian-operated plant up to a gross weight of 2t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geotextile membrane.
- 4.1.6. An example specification has been included at **Appendix 2**.

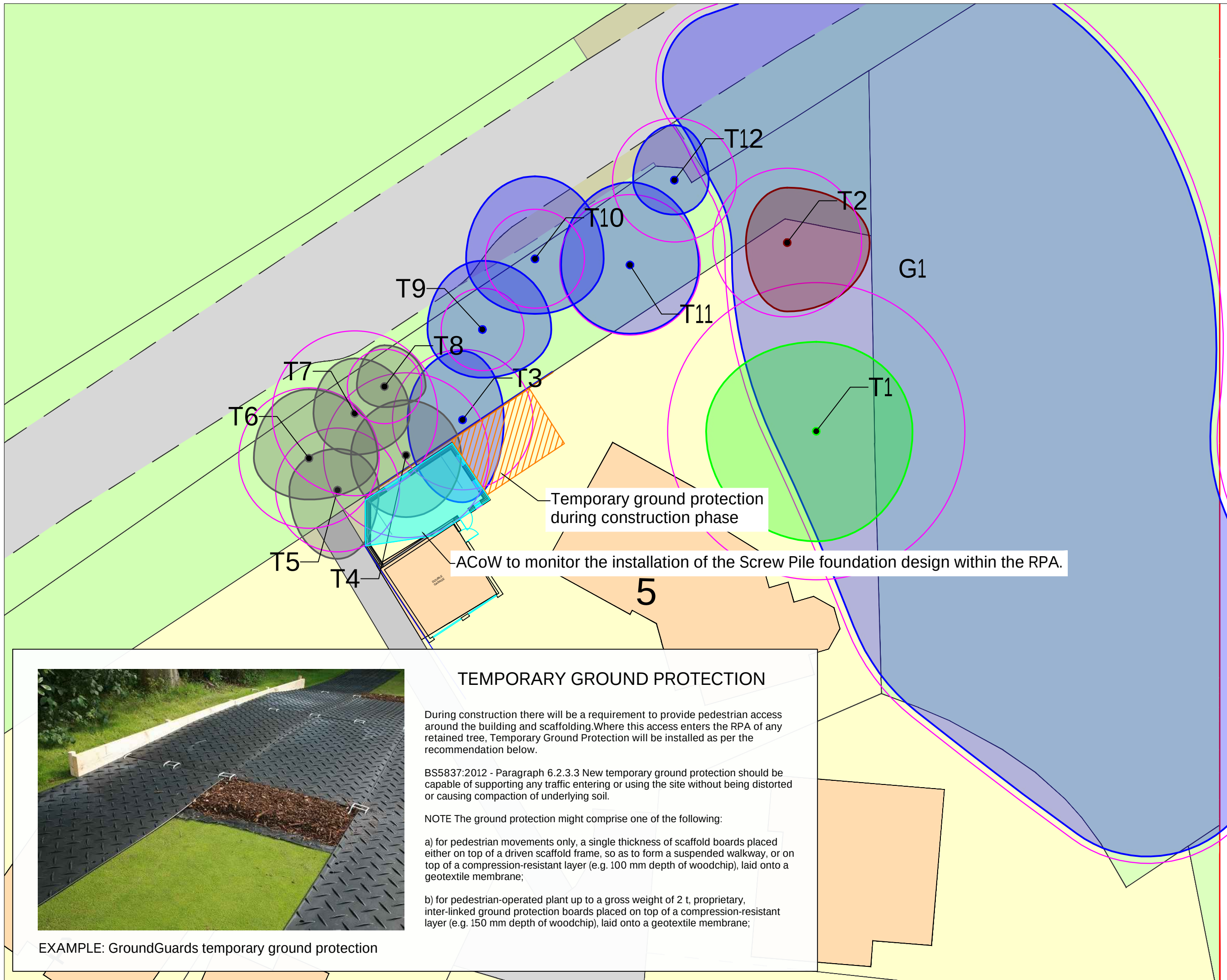
Post Construction

- 4.1.7. Following completion of the proposed development and removal of tree protection measures, an assessment of the trees should be undertaken to highlight any required remedial work.
- 4.1.8. All remedial tree work should be carried out in accordance with British Standard 3998:2010 'Tree work – Recommendations'.

5. References

- 5.1.1. British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction - Recommendation'
- 5.1.2. British Standard 3998:2010 'Tree work – Recommendations'
- 5.1.3. BS8545:2014 Trees: from nursery to independence in the landscape – Recommendations
- 5.1.4. National Planning Policy Framework (NPPF) 2023
- 5.1.5. The Forestry Act 1967
- 5.1.6. The Town and Country Planning Act 1990
- 5.1.7. The Town and Country Planning (Tree Preservation) (England) Regulations 2012.

Appendix 1 – Tree Protection Plan & Tree Schedule



KEY:

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree (High quality / retention value)

B Category Tree (Moderate quality / retention value)

C Category Tree (Low quality / retention value)

U Category Tree (No remaining retention value)

Hedgerows (Not assigned BS5837:2012 category)

TREE PROTECTION

ACoW to monitor pile foundation locations

Temporary ground protection

NOTES:
Tree locations are estimated from measurements on-site. No topographical survey available at the time of tree survey.



EXAMPLE: GroundGuards temporary ground protection

TEMPORARY GROUND PROTECTION

During construction there will be a requirement to provide pedestrian access around the building and scaffolding. Where this access enters the RPA of any retained tree, Temporary Ground Protection will be installed as per the recommendation below.

BS5837:2012 - Paragraph 6.2.3.3 New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.

NOTE The ground protection might comprise one of the following:

- a) for pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geotextile membrane;
- b) for pedestrian-operated plant up to a gross weight of 2 t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geotextile membrane;



Rev B	Issue to client	19.12.2023
Rev A	Issue to client	22.8.2023
Rev	Description	Date



CASTLE SURVEYS LTD

PROJECT
5 Hornsey Rise, Wellesborough

TITLE
Tree Protection Plan

DRAWING REF
1584-TPP-003-B

SCALE
1:250 @ A3

DRAWING NO
003

REVISION
Rev A



CASTLE SURVEYS LTD

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
02/06/2023	Mr & Mrs Cartwright	5 Hornsey Rise, Wellesborough	1584-TS-001-A

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T1	Common beech	<i>Fagus sylvatica</i>	21	910	7	7	8	8	8	Mat	Good	Good	Located within residential garden. Tree is twin stemmed from base.	No work required at the time of assessment.	A1	366	10.80
T2	Silver birch	<i>Betula pendula</i>	17	450	4	6	5	3	6	E/Mat	Declining	Poor	Located on edge of residential garden. Tree has large previous wounds on main stem with decay associated. Canopy heavily declining with moderate deadwood associated. Sparse canopy. Very limited future contribution.	No work required at the time of assessment.	U	92	5.40
T3	Yew	<i>Taxus baccata</i>	13	434	5	3	6	4	2.5	E/Mat	Good	Fair	Located offsite next to footpath. Twin stemmed from base. Canopy comes onto site by approx. 3m. Good future value.	No work required at the time of assessment.	B1, 2	82	5.10
T4	English holly	<i>Ilex aquifolium</i>	13	490	4	4	5	4	4	E/Mat	Fair	Fair	Located offsite next to footpath. Multistemmed from base. Canopy comes onto site by approx. 2.5m. Minor deadwood associated with canopy. Good future value.	No work required at the time of assessment.	C1, 2	113	6.00
T5	Yew	<i>Taxus baccata</i>	15	364	3	3	5	4	3	E/Mat	Good	Fair	Located offsite next to footpath. Twin stemmed from base, stems starting to graft together. Minor deadwood associated with canopy. Good future value.	No work required at the time of assessment.	C1, 2	64	4.50
T6	English holly	<i>Ilex aquifolium</i>	13	432	5	5	3	4	2.5	E/Mat	Good	Fair	Tree located offsite next to main road. Footpath is present to South East directly at base. Roots unlikely to be within site boundary.	No work required at the time of assessment.	C1, 2	82	5.10
T7	Yew	<i>Taxus baccata</i>	14	490	4	4	3	3	2	E/Mat	Good	Fair	Tree located offsite next to main road. Footpath is present to South East directly at base. Roots unlikely to be within site boundary.	No work required at the time of assessment.	C1, 2	113	6.00
T8	English holly	<i>Ilex aquifolium</i>	12	230	3	3	2	2	2	E/Mat	Good	Fair	Tree located offsite next to main road. Footpath is present to South East directly at base. Roots unlikely to be within site boundary.	No work required at the time of assessment.	C1, 2	23	2.70
T9	Common beech	<i>Fagus sylvatica</i>	18	260	5	5	4	4	3.5	E/Mat	Good	Good	Tree located offsite next to main road. Footpath is present to South East directly at base. Roots unlikely to be within site boundary.	No work required at the time of assessment.	B1, 2	28	3.00
T10	Pedunculate oak	<i>Quercus robur</i>	19	300	6	5	4	5	4	E/Mat	Good	Good	Tree located offsite next to main road. Footpath is present to South East directly at base. Roots unlikely to be within site boundary.	No work required at the time of assessment.	B1, 2	41	3.60
T11	Common lime	<i>Tilia x europaea</i>	20	420	6	5	5	5	1.5	E/Mat	Good	Good	Tree located offsite next to main road. Footpath is present to South East directly at base. Roots unlikely to be within site boundary.	No work required at the time of assessment.	B1, 2	82	5.10



CASTLE SURVEYS LTD

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
02/06/2023	Mr & Mrs Cartwright	5 Hornsey Rise, Wellesborough	1584-TS-001-A

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T12	Common lime	<i>Tilia x europaea</i>	19	370	4	3	3	3	3	E/Mat	Good	Good	Tree located offsite next to main road. Footpath is present to South East directly at base. Roots unlikely to be within site boundary.	No work required at the time of assessment.	B1, 2	64	4.50
G1	Silver birch, Common beech, English holly, Scots pine, Cherry laurel, Yew, Common lime		Ave 15	Ave 280	See associated plans				3	Mat	Good	Good	Group located directly offsite behind garden wooden fence. Trees are grown close together. Minor deadwood. Good future value.	No work required at the time of assessment.	B2	See associated plans	

Appendix 2 – Temporary Ground Protection

Recommended specification

BS5837:2012 - Paragraph 6.2.3.3 - *For pedestrian-operated plant up to a gross weight of 2t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geotextile membrane.*

Membrane - TERRAM T1000 Geotextile

Compression later – woodchip (provided on-site by tree work contractors) 150mm depth

Ground Protection Boards – Ground-Guards MultiTrack 39kg mats

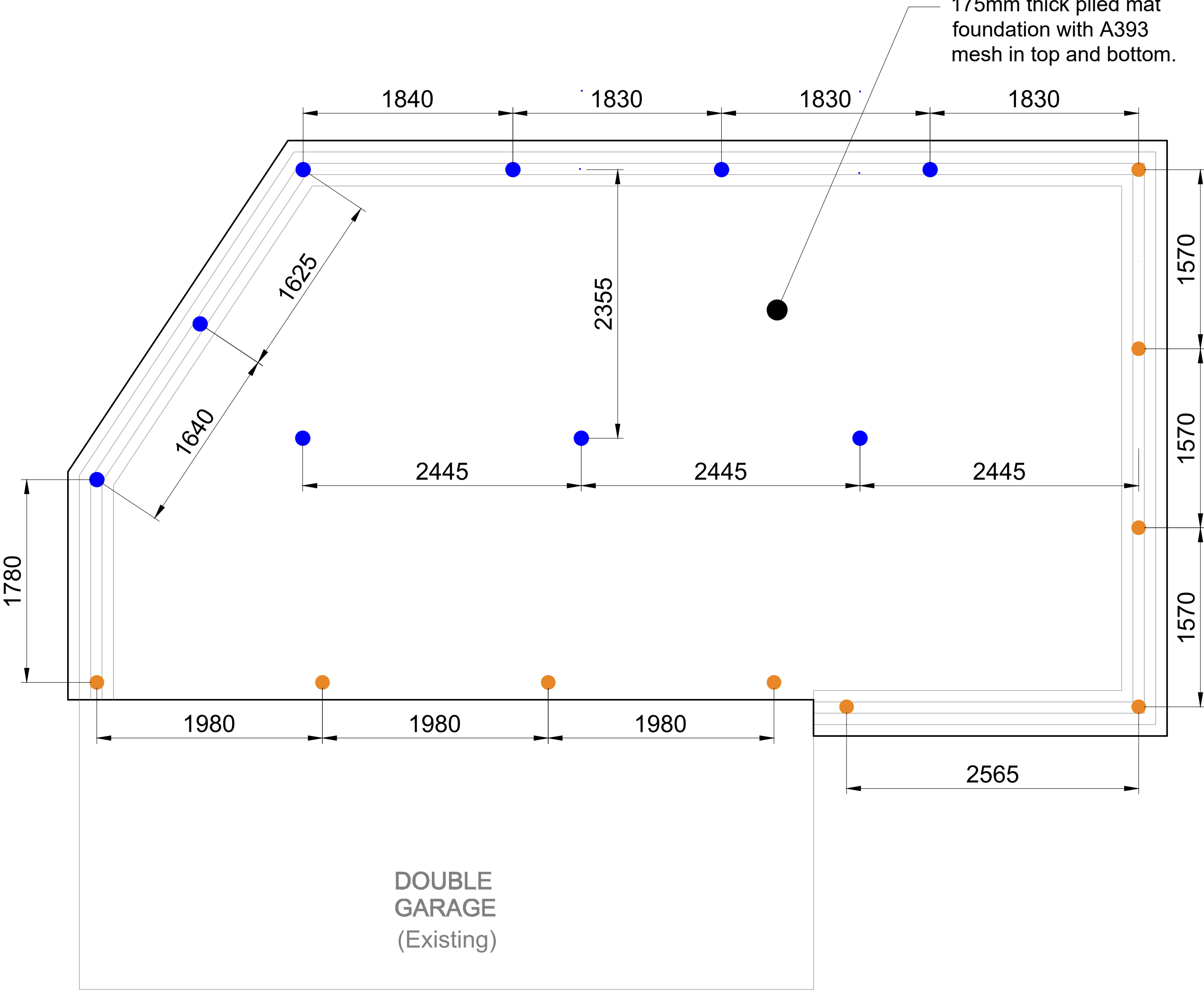
Edging – Timber or other similar.

Image 1 – Ground-Guards temporary tree root protection - example



Appendix 3 – Foundation Design

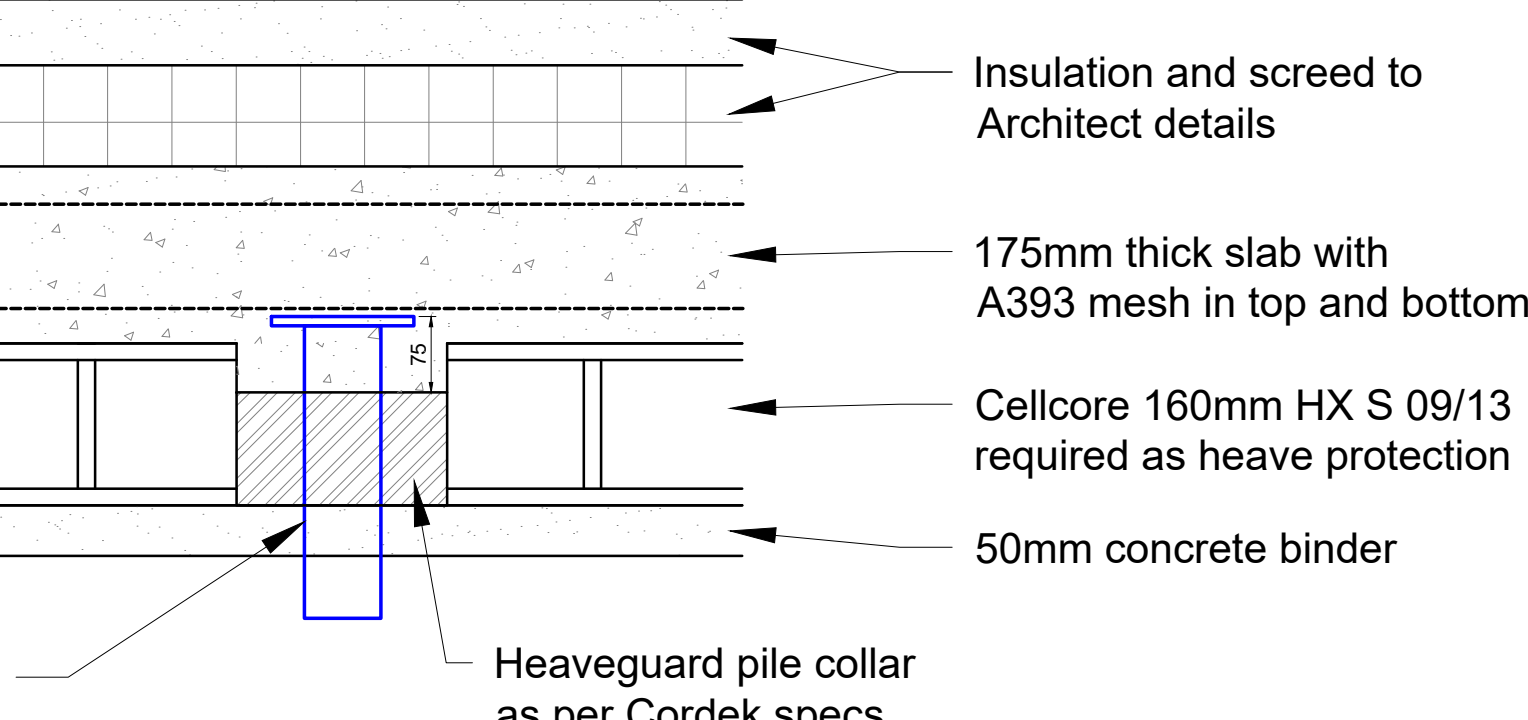
GMB Consultancy (ref: 2023 _459_SK02



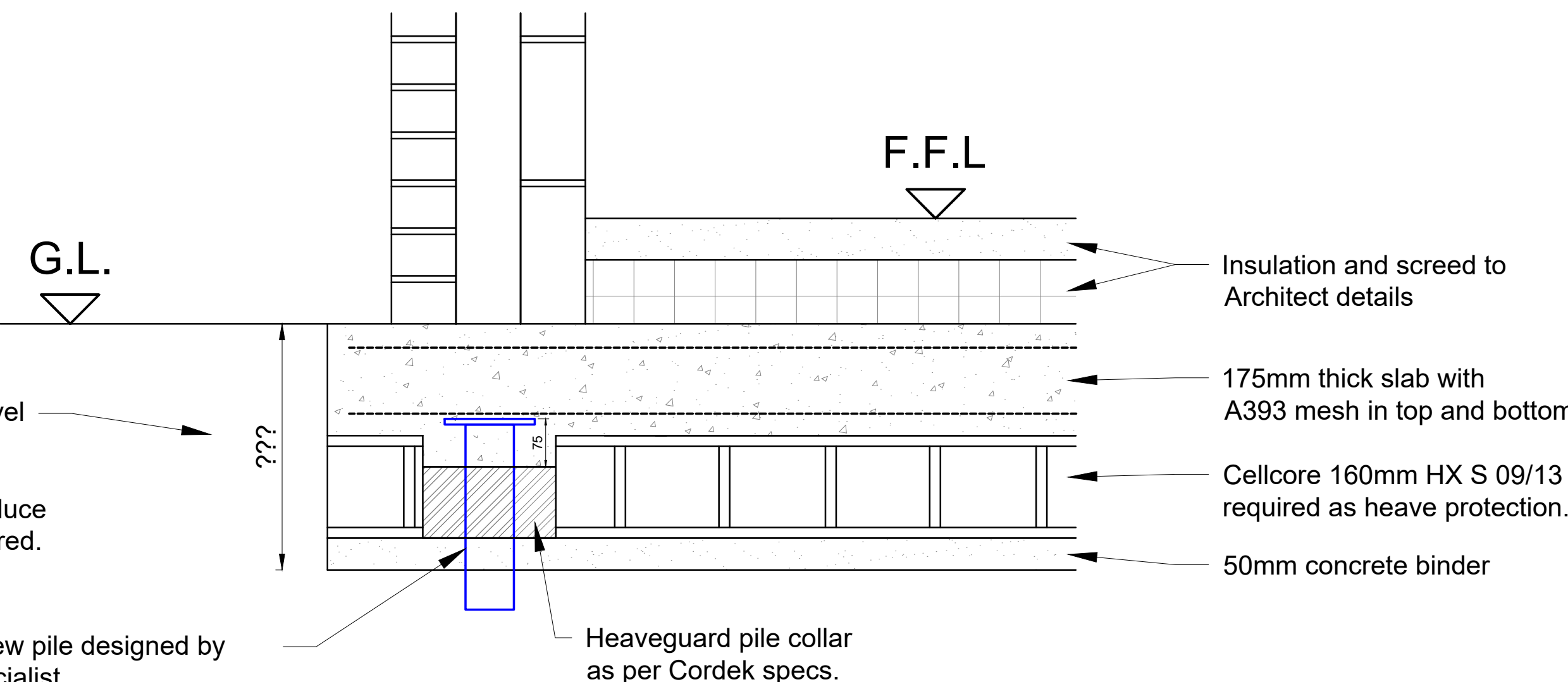
- Foundation notes:**
- Dimensions to be checked on site by contractor.
 - Minimum concrete strength RC35.
 - Reinforcement cover to be min. 50mm.
 - Minimum 400mm overlapping of mesh at joints required.
 - Depth of screw piles to be determined on site by specialist. Depth depend on test load test result.
 - Min pile embedment into slab to be 75mm.
 - Exact location of pile to be confirmed following on site investigation. Contact SE if final position of piles is different than the one shown on this drawing.

- SCREW PILE LOADS:**
- Piles must be designed to withstand an axial load of minimum 35 KN.
 - Piles must be designed to withstand an axial load of minimum 50 KN.
- Note: load shown above is unfactored.

FOUNDATION PLAN



TYPICAL SECTION THROUGH MAT FOUNDATION



TYPICAL SECTION THROUGH EDGE OF SLAB