



ARBORICULTURAL METHOD STATEMENT

SITE LOCATION

The Old Rectory,
Market Bosworth

ISSUE DATE

13.02.2024

SEED REF

1535-AMS-V1-B

CLIENT

Witherslack Group

ARBORICULTURAL CONSULTANCY

SEED-ARB.CO.UK

DOCUMENT CONTROL

Date	Author	Checked	Revision
20.12.2023	Sam Selwyn <i>Dip Arb L4 (abc)</i>	SH	Rev A
13.02.2024	Sam Selwyn <i>Dip Arb L4 (abc)</i>	SH	Rev A

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LIMITATIONS

The contents of this report are valid at the time of writing. SEED Arboriculture 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.



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Tree Protection Plan

Ref: 1535-TPP-003-C

Revision: C

1. Introduction

Background & Instruction

- 1.1.1. This report has been prepared by Sam Selwyn *Dip Arb L4 (abc), TechArborA*. Sam is a Technician 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 and Bosworth Borough Council granted planning permission on 15 December 2023 for “Change of use of the Old Rectory from a dwellinghouse (Class C3) to a Specialist Education Needs (SEN) School (Class F1), erection of two single storey classrooms, a Multi-Use Gaming Area (MUGA), revised parking layout with electric charging points, widening of access, replacement perimeter fencing and external landscaping, works to trees and other works.” (app ref: 23/00667/FUL).
- 1.1.3. This Arboricultural Method Statement (AMS) has been prepared by SEED Arboriculture Ltd to satisfy planning condition no.7 (Arboricultural Method Statement).

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
Topographical Survey	PMS230032	PMS Surveys Ltd	March 2023
Classrooms & Therapy Building Foundation Details	TC/T21131/23/200	Thomas Consulting Ltd	September 2023
Surfacing Proposals	TC / T21130/ 23 / 120	Thomas Consulting Ltd	September 2023

2. Planning History

Planning Application

- 2.1.1. Hinckley and Bosworth Borough Council granted planning permission on 15 December 2023 for “Change of use of the Old Rectory from a dwellinghouse (Class C3) to a Specialist Education Needs (SEN) School (Class F1), erection of two single storey classrooms, a Multi-Use Gaming Area (MUGA), revised parking layout with electric charging points, widening of access, replacement perimeter fencing and external landscaping, works to trees and other works.” (app ref:23/00667/FUL).
- 2.1.2. This AMS and the associated documents address the relevant planning condition of the Approved Development which relates to trees.

Condition 7:- Arboricultural Method Statement (AMS)

Prior to the commencement of the development, an Arboricultural Method Statement (AMS) should be submitted to, and approved in writing by, the Local Planning Authority. The Method Statement should identify:

- *Individual responsibilities and key personnel*
- *Statement of delegated powers*
- *Timing and methods of site visiting and recording keeping, including updates.*
- *Procedures for dealing with variations and incidents.*

The development shall be implemented in accordance with the approved AMS.

3. Arboricultural Supervision

- 3.1.1. 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.
- 3.1.2. All elements of the arboricultural supervision will be undertaken by the retained arboricultural clerk of works (ACoW). The ACoW will be a suitably qualified arboriculturist from SEED Arboriculture Ltd.

Key Personnel

Table 2 – Key personnel involved with the construction.

Role	Relevant party
Client	Witherslack Group
Arboricultural Clerk of Works (ACoW)	SEED Arboriculture Ltd
Local Planning Authority representative	Hinckley and Bosworth Borough Council
Main Contractor	Big Red Construction

Scheme of arboricultural supervision

- 3.1.3. Based on the expected timings for the stages of development available at this time, a schedule for site supervision has been provided in **Table 3**.
- 3.1.4. Exact timings of each element of work and supervision are subject to change based on the progress of development on site. Ongoing communication with the client and main contractor will enable supervision visits to be timed accordingly to the specific operations set out in the schedule.

Table 3– Arboricultural supervision schedule

ARBORICULTURAL SUPERVISION 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. Agree locations of Tree Protection Fencing as required for commencement of development. Agree extent of facilitation tree removal and tree pruning as required for demolition / remediation phase of development. Spray marking of trees / groups for removal in accordance with approved plans. Only trees requiring removal / pruning for demolition / remediation work to be removed as part of this operation.	Undertaken on 31 st January 2024
Monitoring of specific operations	- Monitoring of installation of hard-surfacing within RPAs and installation of cellular confinement Tree Root Protection. - Monitoring of installation of ground screws / raft foundation for external classroom buildings. Personnel: Site Manager, Main Contractor, Project Arboriculturist Set out plan for work being undertaken within RPAs, in accordance with this AMS.	March 2024 – June 2024 Exact dates of work will be notified to us by the Main Contractor
Monitoring Visit	Monitoring and progress update visit. Personnel: Client, Site Manager, Main Contractor, Project Arboriculturist Check installation Tree Protection Fencing. Discuss progress, incidents, queries and any variations to project schedule with project team.	Regular monitoring visits every 8 weeks unless otherwise required.

Supervision recording

- 3.1.5. Following each supervision visit, a supervision record sheet will be completed by the Project Arboriculturist. A copy of the supervision sheet will be issued to the site manager and other parties as required and retained by the project arboriculturist.
- 3.1.6. Details of the operations, development progress, observations and any reported issues will be recorded and where required recommendations will be made for remedial work or any required amendments to the tree protection and/or methods set out within this AMS.
- 3.1.7. During supervision visits the Project Arboriculturist will take photographs as required to provide additional evidence of the implementation of tree protection measures.
- 3.1.8. The record sheets and photographs will provide an auditable trail of evidence that all required tree protection measures have been adhered to. Record sheets will be provided to the Local Planning Authority as required.
- 3.1.9. A pro-forma record sheet is attached at **Appendix 4**.

Reporting process

- 3.1.10. The reporting process set out here should be adhered to when possible, to enable quick and effective communication of matters relating to tree protection and the implementation of tree protection measures.
- 3.1.11. The Site manager will be responsible for reporting any queries or incidents relating to trees to the Project Arboriculturist.
- 3.1.12. The Project Arboriculturist will contact the Local Planning Authority to discuss any issues which may arise.
- 3.1.13. Any variation of the Approved Development which may impact upon trees should be reported to the Project Arboriculturist.
- 3.1.14. Any damage to the stem, branches or roots of any retained tree should be reported to the Project Arboriculturist. Where required, recommendations for remedial work will be made and reported to the Local Planning Authority.

4. Method Statement

External classroom foundations

- 4.1.1. Two options are being explored for the foundation solution. Both options provide an acceptable solution for construction of the buildings within the RPAs, as per the Approved Development.

Raft Foundation

- 4.1.2. Detailed designs for a raft foundation have been provided by Thomas Consulting Ltd for the construction of the GA classroom and GA therapy building which specifies supporting a raft foundation.
- 4.1.3. The specification details that the raft will sit on lightweight hardcore fill, placed on 150mm Tree Root Protection system (Greenfix Geoweb or similar alternative).
- 4.1.4. In accordance with the scheme of Arboricultural supervision the ACoW will be on site during the initial works to form the base for the raft foundation.

Ground screw foundations

- 4.1.5. Ground screws with a suspended timber floor are being explored as an alternative and preferred option. The feasibility of this option is currently being reviewed.
- 4.1.6. Installation of ground screws within the RPA should be undertaken under the direct supervision of the Arboricultural Clerk of Works (ACoW).
- 4.1.7. 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.

Tree Root Protection (Geoweb)

- 4.1.8. The location of this Tree Root Protection is shown on the Tree Protection Plan at **Appendix 1**.
- 4.1.9. The Tree Root Protection will be utilised in several areas, including:
- **Car parking bays**- 100mm Geoweb will be installed as the subbase for the car parking bay. The top surface will be a 40mm permeable paver with gravel infill. 100mm Geoweb is suitable for vehicles up to 6t Gross Weight.
 - **Footpaths**- 75mm Geoweb will be installed as the subbase of the footpaths. This depth is suitable for pedestrian foot traffic and cycleways (up to 1t gross weight).
 - **MUGA**- The construction requires 150mm staggered layers of Geoweb infilled with lightweight aggregate integrating into the capping.
 - **New accessway construction**- 150mm Geoweb (suitable for 30t Gross Weight).
 - Access road widening- 150mm Geoweb.
- 4.1.10. In accordance with the scheme of Arboricultural supervision the ACoW will be on site during the installation of the cell web.
- 4.1.11. The manufacturers recommended method statement for installation of the system can be found at **Appendix 3**.



5. Tree Protection

Tree Protection Fencing

- 5.1.1. The principal protection for the retained trees (above and below ground) and associated soils within the Site is through the erection of Tree Protection Fencing (TPF) to create a Construction Exclusion Zone (CEZ). The CEZ will be maintained throughout development, no access will be allowed to the area other than for operations specified in this AMS document or those agreed with the Council later.
- 5.1.2. The positioning of the CEZ will be in line with the Tree Protection Plan at **Appendix 1**.
- 5.1.3. Prior to any on-site demolition or construction, tree protective measures and the CEZ must be in place. The tree protection fence/barrier once erected will not be moved or relocated without approval from the Council or PA.
- 5.1.4. The following points are critical to the function of the CEZ:
- The TPF shall be maintained throughout the development phase
 - No materials, machinery, temporary structures, chemicals or fuel shall be stored within the CEZ
 - No excavations or increases in soil level within the CEZ are permitted without prior written approval from the LPA
 - Care should be taken to ensure that wide or tall loads or plant with booms, jibs and counterweights do not come into contact with retained trees. Any transit or traverse of plant in close proximity to trees should be conducted under the supervision of a banks person to ensure that adequate clearance from trees is maintained at all times
 - Material which will contaminate the soil such as concrete mixing, diesel oil and vehicle washing must not be discharged within 10m of the tree stems. In the event of an accident or spillage the PA must be notified
 - Fires must not be lit in a position where their flames can extend to within 5m of foliage, branches or trunk. This will depend on the size of the fire and the wind direction
- 5.1.5. The TPF specification should consist of a vertical and horizontal scaffold framework, well braced to resist impacts, as illustrated in BS5836:2012 Figure 3 (attached at **Appendix 2**). The vertical 2m tall, welded mesh panels on rubber or concrete feet, the panels should be joined using a minimum of two anti-tamper couplers, installed so that they can only be removed from within the fence. The distance between fence couplers should be at least 1m and should be uniform throughout the fence. The panels should be supported on the inner side by stabilizer struts, which should be attached to a base plate secured with ground pins.
- 5.1.6. Weatherproof signage will be attached to the fencing with words such as 'Construction Exclusion Zone – No Access' (see signage example at **Appendix 2**).
- 5.1.7. At the end of the project the TPF will be removed only after confirmation by the Project Arboriculturist that this is appropriate.

Tree Protection

- 5.1.8. Tree Protection Fencing will be erected in the locations illustrated on the Tree Protection Plan (ref: 1535-TPP-003-C- at **Appendix 1**) and a working zone will be established and protected using temporary ground protection as set out later within this AMS.

Excavation within RPAs

- 5.1.9. Excavation within the RPAs to the depth required will be supervised by the Project Arboriculturist.
- 5.1.10. Excavation within RPAs will be carried out using hand tools only. Limited mechanical excavation may be carried under supervision of the Project Arboriculturist where hand excavation is not possible or practical.
- 5.1.11. As set out in Paragraph 7.2.3 of BS5837:2012, roots smaller than 25 mm diameter may be pruned back, making a clean cut with a suitable sharp tool (e.g. bypass secateurs or handsaw), except where they occur in clumps. Roots occurring in clumps or of 25 mm diameter and over should be severed only following consultation with the Project Arboriculturist, as such roots might be essential to the tree's health and stability.

Temporary Ground Protection

- 5.1.12. 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 1.
- 5.1.13. 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.
- 5.1.14. 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;
- 5.1.15. 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.
- 5.1.16. An example specification has been included at **Appendix 2**.

Post Construction

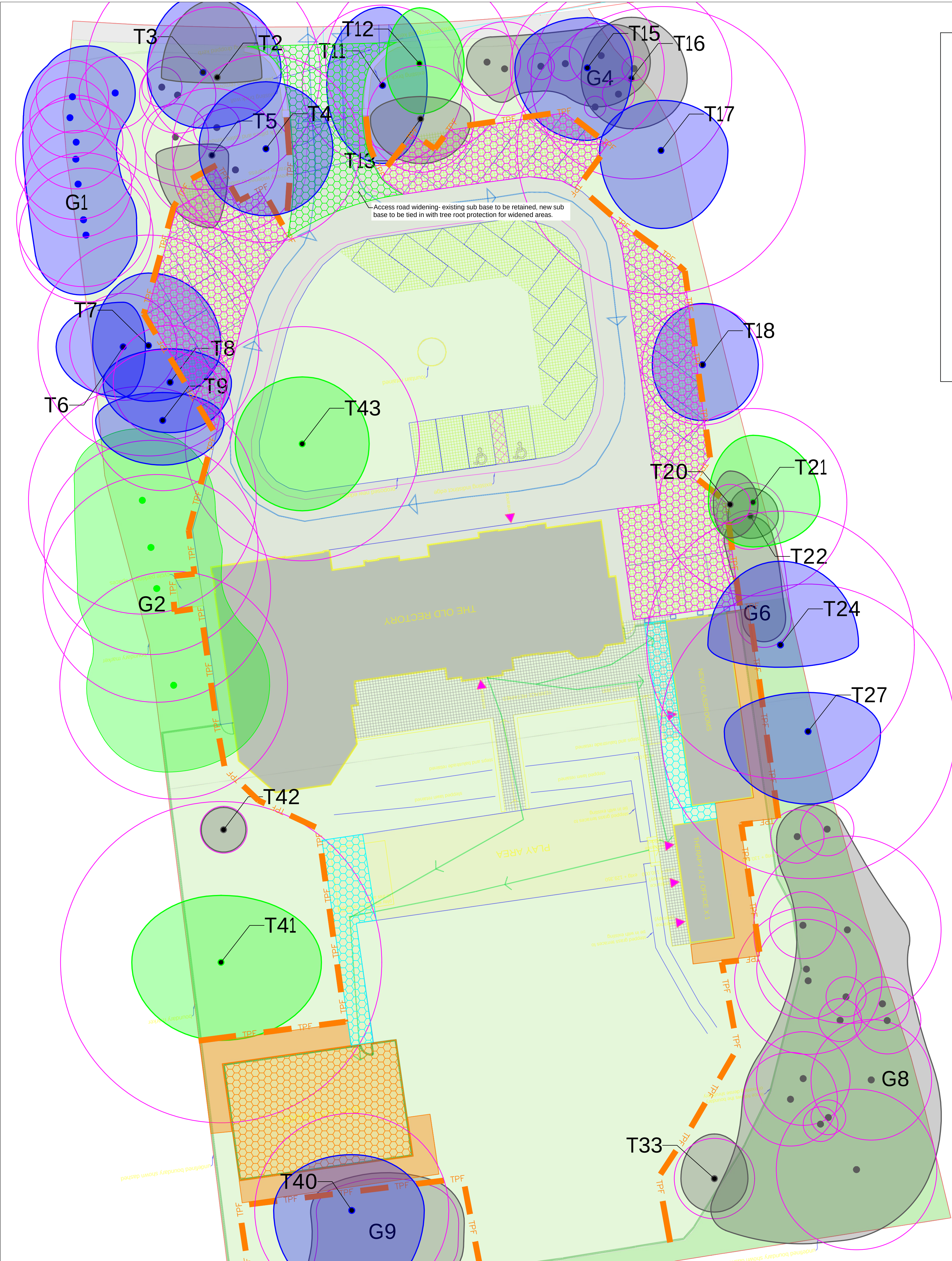
- 5.1.17. Following completion of the proposed development and removal of tree protection measures, an assessment of the trees should be undertaken to highlight any required remedial work.
- 5.1.18. All remedial tree work should be carried out in accordance with British Standard 3998:2010 'Tree work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

6. References

- 6.1.1. British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction - Recommendation'
- 6.1.2. British Standard 3998:2010 'Tree work – Recommendations'
- 6.1.3. BS8545:2014 Trees: from nursery to independence in the landscape – Recommendations
- 6.1.4. National Planning Policy Framework (NPPF) 2023
- 6.1.5. The Forestry Act 1967
- 6.1.6. The Town and Country Planning Act 1990
- 6.1.7. The Town and Country Planning (Tree Preservation) (England) Regulations 2012.

Appendix 1 – Tree Protection Plan & Tree Schedule





Tree Protection Fencing

The principal protection for the retained trees (above and below ground) and associated soils within the Site is through the erection of Tree Protection Fencing (TPF) to create a Construction Exclusion Zone (CEZ).

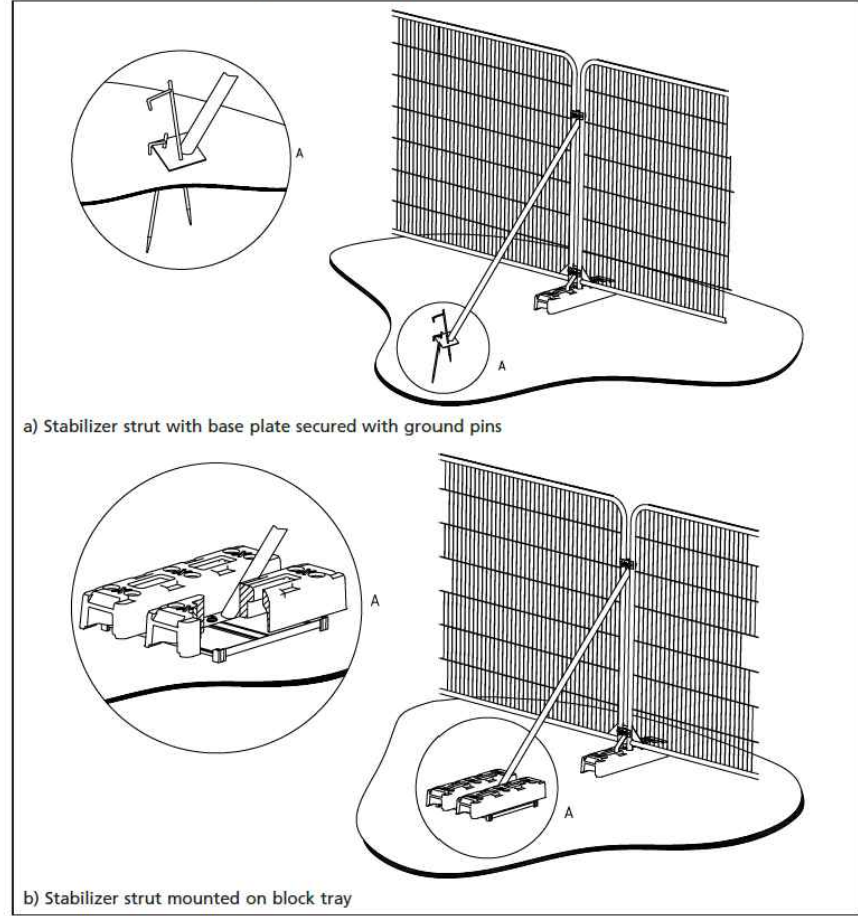
Prior to any on-site demolition or construction, tree protective measures and the CEZ must be in place. TPF Specification is show in Figure 3 (BS5837:2012) - pictured above.

The following points are critical to the function of the CEZ:

- The protective tree fencing shall be maintained throughout the development phase
- No materials, machinery, temporary structures, chemicals or fuel shall be stored within the CEZ
- No excavations or increases in soil level within the CEZ are permitted without prior written approval from the LPA
- Care should be taken to ensure that wide or tall loads or plant with booms, jibs and counterweights do not come into contact with retained trees. Any transit or traverse of plant in close proximity to trees should be conducted under the supervision of a banks person to ensure that adequate clearance from trees is maintained at all times
- Material which will contaminate the soil such as concrete mixing, diesel oil and vehicle washing must not be discharged within 10m of the tree stems. In the event of an accident or spillage the PA must be notified
- Fires must not be lit in a position where their flames can extend to within 5m of foliage, branches or trunk. This will depend on the size of the fire and the wind direction
- Any landscaping within the CEZ must avoid soil disturbance. Therefore, re-grading and rotavators are not permitted. Any agreed soil re-profiling to facilitate final agreed levels must be carried out by hand with topsoil.

Tree Protection Fencing - BS5837:2012 Figure 3

Figure 3 Examples of above-ground stabilizing systems



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:

- 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;
- 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;

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

- Tree Protection Fencing
- Temporary Ground Protection
- 150mm - No dig tree root protection to installed in staggered layers
- 150mm - No dig tree root protection to be tied into existing sub-base for access widening
- 100mm - No dig tree root protection for the construction of permeable car park bays
- 75 mm - No dig tree root protection for the construction of paths in RPAs



Rev	Description	Date
Rev C	Update tree protection	20.12.2023
Rev B	Change to tree removal	04.09.2023
Rev A	Issue to client	27.06.2023
Rev		

SEED

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PROJECT The Old Rectory, Market Bosworth	
TITLE Tree Protection Plan	
DRAWING REF 1535-TPP-003-C	DRAWING NO 003
SCALE 1:200 @ A1	REVISION Rev C

BS5837:2012 TREE SCHEDULE

DATE
04/09/2023

CLIENT
Witherslack Group

SITE
The Old Rectory, Market Bosworth

REFERENCE
1535-TS-001-B

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	Scots pine	<i>Pinus sylvestris</i>	18	400	4	4	1	1	9	Dead	Dead	Poor	Standing dead tree on edge of group.	Fell for safety reasons.	U	72	4.80
T2	Wych elm	<i>Ulmus glabra</i>	12	524	7	4	1	5	5	E/Mat	Fair	Fair	Heavily leaning multistemmed tree on edge of tree group.	No works required at time of survey	C1, 2	125	6.30
T3	Horse chestnut	<i>Aesculus hippocastanum</i>	18	880	7	7	5	5	9	Mat	Fair	Fair	Large mature tree on edge of group.	No works required at time of survey	B1, 2	346	10.50
T4	Sycamore	<i>Acer pseudoplatanus</i>	18	700	6	6	6	6	8	Mat	Good	Good	-	No works required at time of survey	B1, 2	222	8.40
T5	Horse chestnut	<i>Aesculus hippocastanum</i>	17	500	1	2	7	5	6	E/Mat	Good	Fair	Drawn up tree towards edge of group.	No works required at time of survey	C1, 2	113	6.00
T6	Common lime	<i>Tilia x europaea</i>	16	402	4	2	5	6	5	E/Mat	Good	Fair	Twin stemmed tree with partial lean west adjacent to neighbouring access track.	No works required at time of survey	B1, 2	72	4.80
T7	Sycamore	<i>Acer pseudoplatanus</i>	19	822	7	7	5	5	7	Mat	Good	Fair	Large mature tree, multi-stemmed from 1m. Well formed radial canopy.	No works required at time of survey	B1, 2	308	9.90
T8	Sycamore	<i>Acer pseudoplatanus</i>	18	430	3	6	5	6	8	E/Mat	Good	Good	Tree stands to southern end of group. Well formed radial canopy.	No works required at time of survey	B1, 2	82	5.10
T9	Common beech	<i>Fagus sylvatica</i>	15	530	3	6	4	6	3	E/Mat	Good	Fair	-	No works required at time of survey	B2	125	6.30
T10	Sycamore	<i>Acer pseudoplatanus</i>	17	350	3	6	3	2	4	E/Mat	Fair	Fair	Tree within group, stem partially obscured by ivy. Canopy suppressed to west by adjacent trees.	Remove to facilitate proposed development	C2	55	4.20
T11	Sycamore	<i>Acer pseudoplatanus</i>	17	590	7	4	7	5	6	Mat	Good	Good	Mature tree on northern site boundary.	No works required at time of survey	B1, 2	163	7.20
T12	Scots pine	<i>Pinus sylvestris</i>	18	700	5	4	5	3	7	Mat	Good	Good	Mature tree on site frontage.	No works required at time of survey	A1, 2	222	8.40
T13	English holly	<i>Ilex aquifolium</i>	9	396	2	5	4	5	2	Mat	Good	Fair	Twin stemmed three within frontage border.	No works required at time of survey	C1, 2	72	4.80
T14	English holly	<i>Ilex aquifolium</i>	10	420	2	3	3	3	1.5	Mat	Good	Fair	Individual within frontage border.	Remove to facilitate proposed development	C1, 2	82	5.10
T15	Sycamore	<i>Acer pseudoplatanus</i>	18	567	5	4	7	7	7	E/Mat	Good	Fair	-	No works required at time of survey	B1, 2	150	6.90
T16	Horse chestnut	<i>Aesculus hippocastanum</i>	17	750	6	5	5	5	7	Mat	Fair	Fair	Large tree on site boundary. Dense ivy obscuring main stem and structural limbs.	Remove ivy to all detailed assessment.	C1, 2	254	9.00
T17	Horse chestnut	<i>Aesculus hippocastanum</i>	17	1080	5	6	7	6	7	Mat	Fair	Fair	Large tree on site boundary. Dense ivy obscuring main stem and structural limbs. Large cavity on west side of main stem with internal decay visible, further inspection required to determine future management.	Remove ivy to facilitate detailed assessment.	B1, 2	523	12.90
T18	European larch	<i>Larix decidua</i>	18	460	6	5	5	5	3.5	Mat	Good	Fair	-	No works required at time of survey	B1	92	5.40
T19	Horse chestnut	<i>Aesculus hippocastanum</i>	9	450	7	3	4	7	2.5	E/Mat	Declining	Declining	Extensive bleeding canker infection with bark splitting and staining throughout.	Remove to facilitate proposed development	U	92	5.40
T20	Sycamore	<i>Acer pseudoplatanus</i>	10	150	3	3	3	2	9	S/Mat	Fair	Fair	Slender tree, cavity in upper canopy.	No works required at time of survey	C1, 2	10	1.80
T21	Scots pine	<i>Pinus sylvestris</i>	21	710	6	6	4	4	12	Mat	Good	Good	Large tree adjacent to site boundary.	No works required at time of survey	A1	222	8.40

BS5837:2012 TREE SCHEDULE

DATE
04/09/2023

CLIENT
Witherslack Group

SITE
The Old Rectory, Market Bosworth

REFERENCE
1535-TS-001-B

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									
T22	English holly	<i>Ilex aquifolium</i>	15	250	3	3	2	2	3	S/Mat	Good	Fair	-	No works required at time of survey	C1, 2	28	3.00
T23	Scots pine	<i>Pinus sylvestris</i>	16	400	1	3	3	3	8	Dead	Dead	Poor	Standing dead tree	Remove to facilitate proposed development	U	72	4.80
T24	Horse chestnut	<i>Aesculus hippocastanum</i>	19	1000	8	7	2	7	4	Mat	Fair	Fair	Large horse chestnut on site boundary. Suppressed canopy to south from tree which has previously failed tree.	No works required at time of survey	B1, 2	452	12.00
T25	Yew	<i>Taxus baccata</i>	6	200	5	4	4	5	0.5	S/Mat	Good	Fair	-	Remove to facilitate proposed development	C1, 2	18	2.40
T26	Horse chestnut	<i>Aesculus hippocastanum</i>	8	900	1	1	1	5	3.5	Mat	Poor	Poor	Mature tree adjacent to boundary. Previously failed at 7m. One remaining live limb to west. Very limited remaining value.	Remove to facilitate proposed development	U	366	10.80
T27	Horse chestnut	<i>Aesculus hippocastanum</i>	20	1100	4	7	7	8	3	Mat	Fair	Fair	Large mature tree on site boundary. Twin stemmed from 1.5m. Dense ivy partially obscuring main stem. Evidence of bleeding canker throughout, longitudinal bark splits associated with structural limb to east overhanging garden. Tree may benefit from canopy reduction to improve form preventing limb failures.	No works required at time of survey	B1, 2	547	13.20
T28	Common ash	<i>Fraxinus excelsior</i>	20	640	10	3	9	8	8	Mat	Declining	Declining	Large tree adjacent to building. Inonotus hispidus bracket at 2m. Tight forked union with crossing / rubbing branches. Canopy overhangs building to north. Onset of ash dieback visible within canopy.	Remove to facilitate proposed development	U	191	7.80
T29	Common ash	<i>Fraxinus excelsior</i>	20	600	9	6	7	6	12	Mat	Fair	Fair	Large ash on edge of boundary group. Stem bifurcates at 4m. Ivy obscuring stem. Sparse canopy with indications of ash dieback.	Remove to facilitate proposed development	C1, 2	163	7.20
T30	Common ash	<i>Fraxinus excelsior</i>	18	600	2	4	7	7	5	Mat	Fair	Fair	Large ash on edge of boundary group. Ivy obscuring stem. Sparse canopy with indications of ash dieback.	Remove to facilitate proposed development	C1, 2	163	7.20
T31	Common ash	<i>Fraxinus excelsior</i>	18	463	3	4	4	5	5	Mat	Fair	Fair	Stands on lawn area. Bifurcates at 1m. Sparse canopy with indications of ash dieback.	Remove to facilitate proposed development	C1, 2	102	5.70
T32	Common apple	<i>Malus domestica</i>	4	150	3	2	3	2	3	E/Mat	Good	Fair	Small ornamental tree.	Remove to facilitate proposed development	C1	10	1.80
T33	Norway spruce	<i>Picea abies</i>	14	290	4	3	3	3	2	E/Mat	Good	Fair	-	No works required at time of survey	C1	41	3.60
T34	Wild cherry	<i>Prunus avium</i>	15	460	7	6	4	4	1	Mat	Good	Fair	-	Remove to facilitate proposed development	C1, 2	92	5.40
T35	Wild cherry	<i>Prunus avium</i>	15	430	5	4	1	5	7	Mat	Fair	Poor	Large cavity associated with base and lower stem.	Remove to facilitate proposed development	U	82	5.10
T36	Wild cherry	<i>Prunus avium</i>	15	361	5	3	2	3	7	Mat	Fair	Fair	-	Remove to facilitate proposed development	C1, 2	55	4.20

BS5837:2012 TREE SCHEDULE

DATE
04/09/2023

CLIENT
Witherslack Group

SITE
The Old Rectory, Market Bosworth

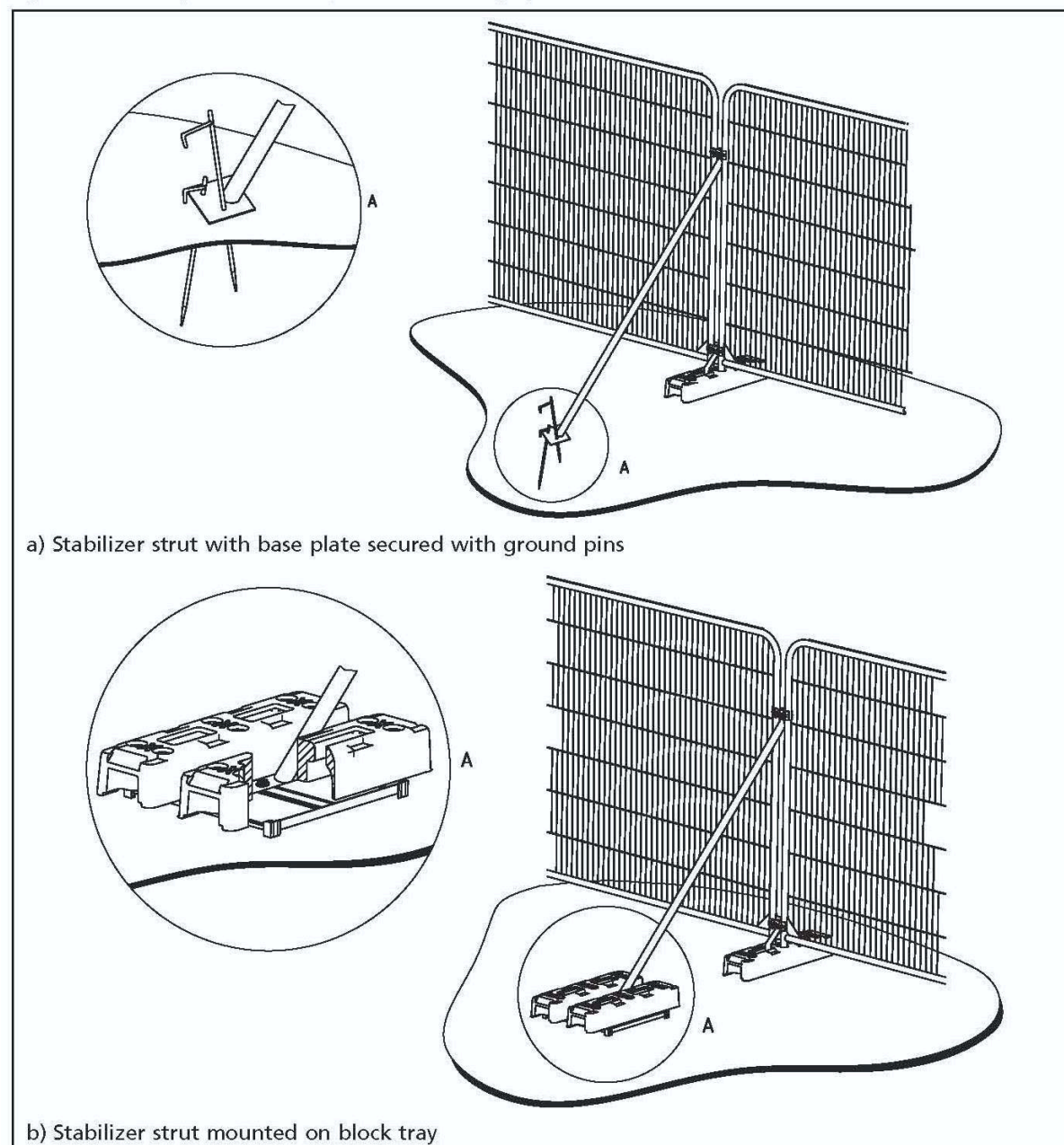
REFERENCE
1535-TS-001-B

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									
T37	Wild cherry	<i>Prunus avium</i>	15	560	4	10	3	2	7	Mat	Fair	Fair	Narrow included union at 2m. Canopy biased east.	Remove to facilitate proposed development	C1, 2	137	6.60
T38	Common ash	<i>Fraxinus excelsior</i>	16	340	4	3	3	3	8	Mat	Declining	Fair	Slender drawn up specimen. Evidence of ash dieback within canopy.	Remove to facilitate proposed development	C1, 2	55	4.20
T39	Wild cherry	<i>Prunus avium</i>	11	274	4	1	3	4	4	E/Mat	Fair	Fair	-	Remove to facilitate proposed development	C1, 2	34	3.30
T40	Common ash	<i>Fraxinus excelsior</i>	20	730	5	7	8	7	7	Mat	Fair	Fair	Large individual. Minor dieback visible within canopy, generally good with some indications of early ash dieback.	No works required at time of survey	B1	238	8.70
T41	Cedar of Lebanon	<i>Cedrus libani</i>	25	1200	6	9	7	8	0	Mat	Good	Fair	Large individual with two significant lower limbs to east. Second lower limb has limited remaining canopy due to previous failure. Small cavity to south of base.	No works required at time of survey	A1	651	14.40
T42	English holly	<i>Ilex aquifolium</i>	5	180	2	2	2	2	1	E/Mat	Fair	Fair	-	No works required at time of survey	C1	14	2.10
T43	Yew	<i>Taxus baccata</i>	8	866	6	6	6	6	2	Mat	Good	Good	-	No works required at time of survey	A1	346	10.50
G1	Common lime		Ave 19	Ave 500	See associated plans				4	Mat	Good	Fair	Line of lime trees. Lapsed coppice growth. Provides good contribution to area.	No works required at time of survey	B2	See associated plans	
G2	Common lime		Ave 20	Ave 850	See associated plans				5	Mat	Fair	Fair	Row of four pollarded lime trees on site boundary. Moderate decay around some pollard unions. Trees will require repollarding or reduction to manage.	No works required at time of survey	A1, 2	See associated plans	
G3	Sycamore, English holly, Cherry laurel, Yew		Min 2 - Max 9	Min 60 - Max 250	See associated plans				0.5	S/Mat	Fair	Fair	Dense scrub and small trees within understorey of group.	Remove to facilitate proposed development	C2	See associated plans	
G4	Sycamore, English holly		Ave 11	Min 60 - Max 37-	See associated plans				1.5	E/Mat	Fair	Fair	Group of holly trees within overgrown area adjacent to northern boundary. Dense ivy throughout many, provides screening to boundary.	No works required at time of survey	C2	See associated plans	
G5	English holly		Ave 4	Ave 80	See associated plans				0.5	S/Mat	Fair	Fair	Linear group recently cut to 4m, hedge like screen on boundary.	Remove to facilitate proposed development	C2	See associated plans	
G6	English holly		Ave 9	Ave 150	See associated plans				1	E/Mat	Fair	Fair	Group of small scrubby trees along boundary.	No works required at time of survey	C2	See associated plans	
G7	Yew		Ave 7	Min 150 - Max 300	See associated plans				1.5	E/Mat	Good	Fair	-	Remove to facilitate proposed development	C2	See associated plans	
G8	Sycamore, Common ash, Myrobalan Plum, Yew		Min 5 - Max 17	Ave 200	See associated plans				0.5	E/Mat	Fair	Fair	Dense group in southeast corner. Offers good boundary screening.	No works required at time of survey	C2	See associated plans	
G9	Common ash, Cherry laurel		Min 4 - Max 15	Min 140 - Max 350	See associated plans				0.5	E/Mat	Fair	Fair	Cluster of smaller regeneration ash and Laurel understorey.	No works required at time of survey	C2	See associated plans	

Appendix 2 – Tree Protection Specification

BS5837:2012 – Figure 3

Figure 3 Examples of above-ground stabilizing systems



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



TREE PROTECTION AREA



NO ACCESS - TREE PROTECTION AREA

- NO MATERIALS, MACHINERY, TEMPORARY STRUCTURES OR CHEMICALS SHALL ENTER OR BE STORED WITHIN THIS AREA
- FENCING WILL NOT BE ALTERED OR MOVED WITHOUT PRIOR AGREEMENT OF THE PROJECT ARBORICULTURIST.



TREE PROTECTION FENCING

- TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A TREE PRESERVATION ORDER.
- UNAUTHORISED DAMAGE TO PROTECTED TREES IS A CRIMINAL OFFENCE AND COULD LEAD TO ENFORCEMENT ACTION.



ARBORICULTURAL CONSULTANTS

For any issues relating to this Tree Protection Fencing or other guidance with any arboricultural matters on this development, please contact **Seed Arboriculture Ltd.**

www.seed-arb.co.uk

- info@seed-arb.co.uk

- 01625 460 252

Appendix 3 – Greenfix Geoweb installation methodology



PRESTO



INSTALLATION GUIDE

■ **simplified**



GEOWEB® Tree Root Protection



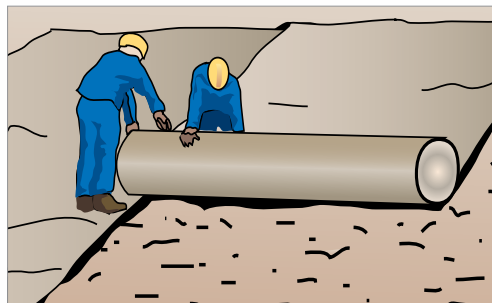


GEOWEB® Tree Root Protection

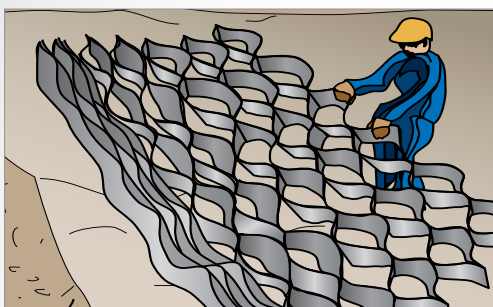
- 1 Prepare subgrade. Remove debris, rocks.



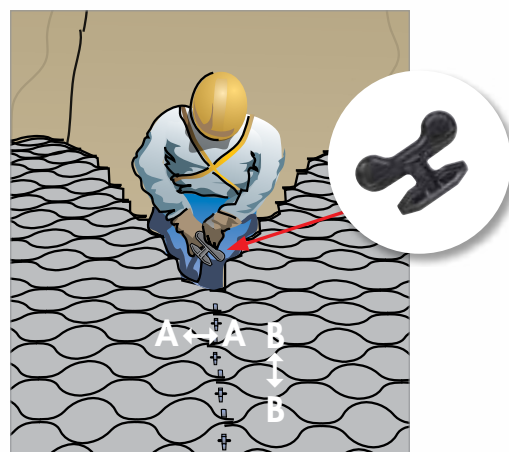
- 2 Install TRP4000 geotextile.
Overlaps by minimum 300 mm.



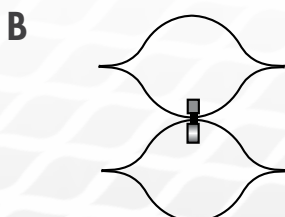
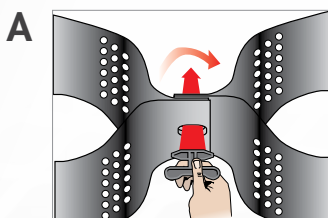
- 3 Partially expand GEOWEB® sections.



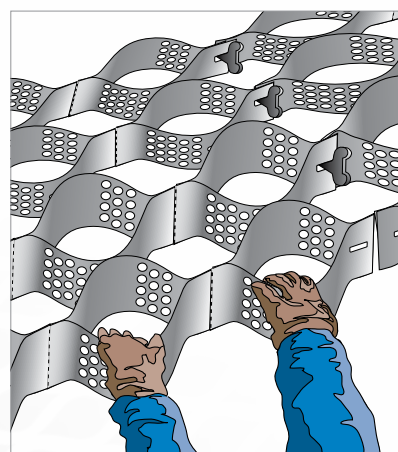
- 4 Connect GEOWEB® sections with ATRA® keys.



- 5 Connect side to side (A) and end to end (B).



- 6 Fully expand GEOWEB® sections.



IMPORTANT NOTE:

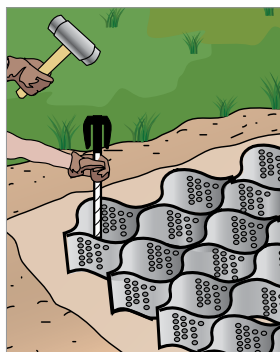
The simplified installation guide provided by Presto GEOSYSTEMS® is intended as a general guideline only. The contractor should follow contract plans and specifications and refer to detailed installation guidelines for more information.

- 7** Hold sections open. Use Options A, B, C or D.

A T-Bars



B ATRA® anchors



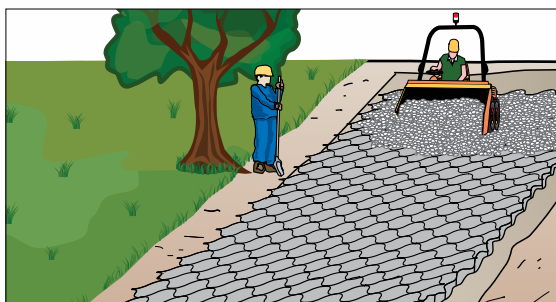
C Wood Stakes



D Infill Select Cells



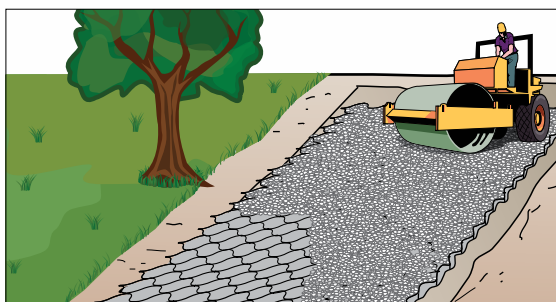
- 8** Infill GEOWEB® cells.



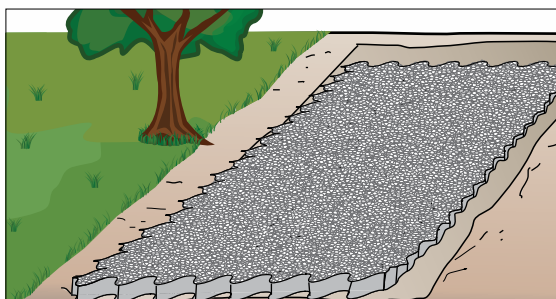
- 9** Spread Infill ensuring a 25 mm overfill at all times.



- 10** If required, use a 4t smooth, non-vibrating roller on overfilled GEOWEB® system. Refill as needed to ensure a 25 mm overfill.



- 11** Surface option ready to install according to specification.



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tel: 01608 666027
www.greenfix.co.uk

Geoweb infill material for Tree Root Protection

Clean Angular Stone 4-20mm

Specification for open graded infill material for Geoweb cellular confinement within tree root protection applications. The no fines material is to ensure high ratio void space which corresponds with ideal soil void ratios for tree root health.

Material to BS EN1342 or BS EN12620. Crushed gravel is not permitted.

Properties of material	Test	Value
Grading of particle size	BS EN 13242	Grading 4-20mm
Fines Content	BS EN 13242	f ₈
Shape flatness index	BS EN 13242	F ₈₀
Resistance to fragmentation	BS EN 13242	LA ₁₀
Resistance to wear	BS EN 13242	M ₁₀ 20
Water absorption rate BS EN 1097-6:2000 clause 7	BS EN 13242	WA ₂ 2
For typical WA>2% magnesium sulphate soundness	BS EN 13242	MS ₁₈
Acid soluble sulphate content air-cooled blast furnace slag	BS EN 13242	ASo ₁
Acid soluble sulphate content non air cooled blast furnace slag	BS EN 13242	ASo ₂
Total sulphur aggregates other than air cooled blast furnace slag	BS EN 13242	<1% by mass
Total sulphur air cooled blast furnace slag	BS EN 13242	<2% by mass

Sieve Size mm	Percentage of 4-20mm passing
40	100
31.5	98 - 100
20	90 - 99
10	25 - 70
4	0 - 15
2	0 - 5
1	-

Air cooled blast furnace and steel slag should be free from Dicalcium silicate and iron disintegration in accordance with BS EN 13242:2002, 6.4.2.2 v5

Leaching of materials for blast furnace slag and other recycled materials should meet requirements of the Environmental waste acceptance criteria for inert waste when tested in accordance with BS EN 12457-3

On poor site conditions which require compaction, this should be minimum 4 passes of a smooth wheeled roller at max weight 1000kg/m width without vibration.

For assistance on correct 4–20mm clean angular stone infill specification, please contact Greenfix technical team.

MATERIALS SUPPLIED BY **Greenfix**

GEOWEB®



TRP4000
Non-woven Geotextile



ANCHORS



ATRA® KEY



ADDITIONAL MATERIALS REQUIRED

4–20mm clean, angular stone



LIMITED WARRANTY

Presto GEOSYSTEMS® warrants each GEOWEB® section which it ships to be free from defects in materials and workmanship at the time of manufacture. Presto's exclusive liability under this warranty or otherwise will be to furnish without charge to Presto's customer at the original f.o.b. point a replacement for any section which proves to be defective under normal use and service during the 10-year period which begins on the date of shipment by Presto. Presto reserves the right to inspect any allegedly defective section in order to verify the defect and ascertain its cause.

This warranty does not cover defects attributable to causes or occurrences beyond Presto's control and unrelated to the manufacturing process, including, but not limited to, abuse, misuse, mishandling, neglect, improper storage, improper installation, improper alteration or improper application.

PRESTO MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, WRITTEN OR ORAL, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, IN CONNECTION WITH THE GEOWEB® SYSTEM. IN NO EVENT SHALL PRESTO BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR FOR ANY OTHER REASON, INCLUDING NEGLIGENCE, IN CONNECTION WITH THE GEOWEB® SYSTEM.

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GEOWEB® MANUFACTURER:



PRESTO GEOSYSTEMS®
Appleton, Wisconsin, USA

EU HEAD OFFICE/ENGINEERING SUPPORT:



SOILTEC GmbH: Germany
www.soiltec-geosystems.de

DISTRIBUTED BY:



Greenfix Soil Stabilisation & Erosion Control Limited
Old Manor Farm Yard
Beckford Road
Ashton under Hill
Evesham
Worcestershire
WR11 7SU
info@greenfix.co.uk
www.greenfix.co.uk
01608666027

Appendix 4 – Supervision Record Sheet



SITE SUPERVISION RECORD			
Client:			Date:
Site reference:			
Planning App ref:		Development stage:	
Purpose of visit			
Key Personnel:			

SUPERVISION NOTES	
Tree protection checked	
Additional comments / issues identified	

ACTIONS
Remedial work / further actions required

Notify Local Planning Authority / Tree Officer	Y / N
Notify Client	Y / N
Date of next visit:	

SIGNED			
Project Arboriculturist		Signed	