

British Standard 5837
ARBORICULTURAL IMPACT ASSESSMENT
At Holme House, Sandy Lane,
Aylmerton, NR11 8QE

Prepared for Mr R Walton

By Target Trees.

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Appendix 1 Tree Survey

Appendix 2 Tree Protection Plan

1. Terms of Reference

- 1.1. This assessment has been carried out survey trees that may be affected by the creation of a new extension to the current property and a cart shed towards the eastern boundary. This assessment has been carried out in advance of any plans being submitted.
- 1.2. This assessment evaluates the impact of the proposed building development on the surrounding trees and to produce recommendations for the protection and safeguarding of retained trees during the construction processes. These recommendations are based on British Standards 5837:2012 "Trees in relation to design, demolition & construction – Recommendations" and other documentation which has helped with the mitigation of trees in conflict with design.
- 1.3. Our clients have provided us with any information or additional documentation. This is in the form of site plans showing the proposed design.

2. Site Description

- 2.1. The site is located off Sandy Lane and only access can be gained from here. The site has been cleared of bramble and small scrub to allow access and assessment of the site.
- 2.2. The sites boundaries are met by private residence and the highway.

3. Details of the Tree Survey

- 3.1. The trees were survey on 4th of March 2022 The assessment was carried out from ground level using a BS:5837 format, Trimble TDC100 linked to a juniper geode to accurately GPS the trees and record data. The heights have been measured using a Nikon Forestry Pro Rangefinder with the crown width being measured accurately using a measuring wheel. The data has been used in conjunction with Pear Technologies to produce a Tree Protection Plan and Survey Sheets.
- 3.2. My data which has been recorded during the survey has been collected independently of any development proposal, and my recommendations have been based on arboricultural grounds only.
- 3.3. No soil assessment has taken place as part of this report. British Standards states that a soil assessment should be carried out by a competent person to establish structure, clay content and potential for volume change of the soil. A survey/report of this nature is considered outside the scope of this Arboricultural assessment. Guidance and advice for this should be sought from a Structural Engineer whilst guidance can be found in NHBC standards, Chapter 4.2.

4. Assessment of Tree Constraints

- 4.1. To enable the correct assessment of the Tree Protection Plan (TPP) we have attached these to this report Appendix 2. The plan has been produced as the basis for the assessment of conflict and constraints imposed by existing trees on the proposed design.
- 4.2. The TPP highlights and mitigates with constraints that trees may impose on this development. These are listed below.
 - 4.2.1. Below ground constraints - The Root Protection Areas (RPA) for the trees are shown as a light grey coloured circle to match the retention category colour. The RPA will be used to help inform the closest positions of any future buildings. The RPA will be protected during any development work with temporary barriers as prescribed by the British Standard.
 - 4.2.2. Above ground constraints - The branch spreads were measured at the four cardinal compass points, with a shape drawn around these points to indicate approximate branch spread, represented by broken lines on the plan with colours following their allocated category.
 - 4.2.3. A shade pattern has been shown for each tree forming an arc from northwest to due east. This gives an indication of the patterns of shadows created by the trees around mid-day in the summer. This is as recommended in BS5837:2012 (Section 5.2.2) but actual shade patterns throughout the year will vary widely. Our shading is calculated by Pear Technologies software.

5. Arboricultural Impact Assessment

- 5.1. During my site inspection I surveyed 60 trees in total, with 7 trees identified as requiring works before or during construction works. The erecting of protective barriers must be carried out before any construction begins, with non-compressive matting installed across the driveway to ensure no significant increases in ground compression occurs.
- 5.2. No trees have been classed as Category A which is the highest category available under the British Standard 5837:2012. These trees are of such quality that they should be retained in the context of the development.
- 5.3. 16 trees have been classed as Category B. This tree is generally in good condition and are a focal point with landscape values. These trees significantly add to the landscape or will become landscape features within the future. They should be retained where possible in the context of a development
- 5.4. 40 trees have been classified as Category C. These trees although the frame and play a significant part of the landscape have been classed within this category due to their structure, form and requirement for scheduled re-pollarding works.
- 5.5. 4 trees have been classed as Category U in poor condition and unlikely to provide a landscape contribution for more than 10 years.
- 5.6. Trees that are retained will be provided with their proper protection according to BS5837:2012 regardless of the category in which they have been placed.
- 5.7. The tree constraints for each component (building, demolition, excavation, installation, etc) of the development, are considered separately below.

Component	Details of Constraints
Category U trees	To be removed due to poor form.
Protective fencing	To be installed ahead of construction process to ensure trees are protected from damage. These will also form the boundary between the site and the construction exclusion zones (CEZ).
0459	Lime tree which is situated in the middle of the current driveway to have a reduced protective barrier are because of access. Non-compressive matting to be used to cover the remainder of the RPA.
0458-0468	Protective non-compressive matting to be used over current driveway to mitigate any additional ground compression increases from heavy vehicles delivering materials to the site.
0489	Building situated on borderline of RPA. Inspected digging required for this section of footings.
CEZ	Construction Exclusion Zone – Not to be entered or materials stored within these areas.
RPA	Root Protection Area – Not to be entered or materials stored within these areas.

6. Tree Management & Replanting Schedule

- 6.1. Remedial works are listed within the schedule of works (Appendix 1) and the recommendations have been created following a detailed site inspection, taking into considerations many factors including: health and safety, longevity, future impact, risk, facilitation, lift safety, aerial impacts during lifts and value.

- 6.2.** The schedule of works does not supersede any approvals that may be granted by the planning authority. Once approved this will become approved works under planning control.
- 6.3.** An inspection of trees under British Standard 5837 is designed to gather information to assess which, if any tree constraints it will have on the proposed development. Whilst tree defects and other issues may be recorded in the survey and appropriate action identified this assessment does not constitute as a tree condition survey which focuses on health and safety. This report and any comments on the surveyed trees relating to health and safety issues remain valid for 12 months from the signature date within this report, after this date all trees will require re-inspection.
- 6.4.** Replacement hedging – It is not proposed to create new hedging due to the current site being wooded and existing hedging around parts of the perimeter.
- 6.5.** Replacement trees – Tree planting must follow British Standard 8545: 2014 Trees: from nursery to independence in the landscape – Recommendations. This will provide clear guidance and information to any person(s) required to carry out planting. Additionally, the trees will require a 5-year maintenance period. Works will include watering during hot periods to ensure drought conditions do not kill the tree, applying a layer of woodchip to retain moisture at a distance of 0.5m radius from the trees stem, ensuring weed growth is managed to reduce competition for nutrition, checking supports, guards and stakes, whilst replacing any failures of trees with the same species during this period. We do not plan to plant any new trees currently. This may change as the design develops and landscape enhancement is considered after the proposed buildings are constructed.

7. Additional input and considerations

- 7.1.** Should the proposed developments footprint/site layout change it will be necessary to revise this report.
- 7.2.** The TPP will clearly identify any tree issues and the Arboricultural Method Statement (AMS) contains the timetable for implementation of the tree works, including tree protection and management. These should be read together to gain a clear understanding of the tasks proposed within this report.
- 7.3.** Trees are living organisms whose health and condition can rapidly change and works must be carried out within the timeframe identified to ensure you the client are not liable for failings under duty of care.
- 7.4.** Disclaimer: I have no connection with any of the parties involved with this proposal that could influence the opinion expressed within this document.

8. Permissions and Constraints

- 8.1.** I have enquired with the local planning authority to ascertain whether the site is covered by any Tree Preservation Orders.
- 8.2.** To assist with your planning process the local planning authority should be provided with a copy of this report and invited to comment on the proposal laid out within the document and schedules.
- 8.3.** Special attention should be paid to the related legislation ensuring that the development will not breach or become in breach of the Wildlife & Countryside Act 1994, Countryside Rights of Way Act 2000, Conservation of Habitats & Species Regulations 2010 must be adhered to fully. You must also ensure that nesting birds, protected species such as bats and reptiles as well as some species of flora.

9. Conclusion

- 9.1.** We are proposing remedial works to be carried out to 7 trees on this site. With the remaining trees requiring protective fencing independently to the main protective fencing requirements.
- 9.2.** All trees outside the scope, design or adjacent to the site will be retained and protected in accordance to BS5837:2012 throughout the works. Any damages to this protective fencing will be rectified within 24 hours.
- 9.3.** The proposed design will sit outside any RPA that is to be retained then the impact on the tree will be minimal.
- 9.4.** The site currently has a roadway to the property.
- 9.5.** The proposed development will incur shading from trees 489 and 495.

9.6. Installation of post holes for garden fences which are within an RPA of any retained tree must be excavated by hand digging, taking care to ensure that the major roots are not severed and that the roots are protected from contamination and leaching from the concrete mixture.

Where new structures are located near and will have conflict pruning will be required, either before to allow enough space for the trees and buildings, or future considerations after the construction period has ended to maintain an adequate and sufficient clearance.

9.7. This reports proposal has been based on my findings during my site visit, knowledge and information provided by our clients.

10. Signature

Mr I Flatters

05/04/2022

Arboricultural Method Statement – Holme House

1. Scope of Works

- 1.1 This document provides a methodology for the protection of trees during the proposed building works as identified on the Tree Protection Plan. This document should be read in conjunction with the Tree Protection Plan and Timetable of Works.
- 1.2 The main features in the protection of trees to be retained on site are:
 - Erection of protective fencing along the RPA to create a CEZ to prevent access to these areas.
 - Ensuring the protective fencing is adequate and to identify created work areas.
 - Pre-construction arboricultural works.
 - Specialist supervision in supervised dig areas.
- 1.3 A meeting between the site manager and a consulting arboriculturalist will take place prior to construction work commencing to discuss, identify location for fencing and agree the tree protection measures to be put into place.
- 1.4 Protective fencing and ground protection MUST be in place before any construction works commences.
- 1.5 The pre-construction works include remedial works to 11 trees, with protective fencing installed on an additional 12 trees and 1 hedgerow.

2.0 Timing of Works

- 2.1 Erection of protective fencing will be completed in accordance with the Timetable of Works Appendix 4.
- 2.2 The date of construction is not known; however, the Timetable of Works gives the order that the pre-construction works must be completed before this date to ensure tree protection is achieved.
- 2.3 Any tree felling or remedial works recommended in the Arboricultural Impact Assessment, or as highlighted in the tree survey, is to be carried out prior to any construction work. Works will adhere to industry best practice including BS: 3998 2010 'Recommendations for Tree Work'. Stump grinding operations must grind to a minimum depth of 10 inches below the surface.
- 2.4 Nesting seasons should be avoided to ensure the risk of a delay. However, works can be carried out during this period if a wildlife inspection is carried out prior to any works and the law is not broken.
- 2.5 Wildlife protection measure should be undertaken prior to any works. This is covered by the Wildlife and Countryside Act, Habitat regulations and European Protected Species Legislation.

3.0 Protective Fencing and Ground Protection

- 3.1 A construction Exclusion Zone (CEZ) will be created along the line of any Root Protection Area and any other area highlighted for protection within the Arboricultural Impact Assessment and Tree Constraints Plan Appendix 2. Temporary fencing will be erected along the RPA of trees to be retained to form a CEZ. This line will be fully identified as per the results of the test pits requested.
- 3.2 The fencing will exclude all access to the CEZ.
- 3.3 Signs will be erected at four places on the protective fencing for each CEZ stating 'Construction Exclusion Zone Keep Out'
- 3.4 Fencing will be maintained and inspected by the site manager regularly and repairs to damaged fencing must be rectified within 24hrs. This will ensure access is denied to the CEZ throughout the construction process.
- 3.5 Protective fencing is only to be removed once all construction work is completed and final inspections have been made.

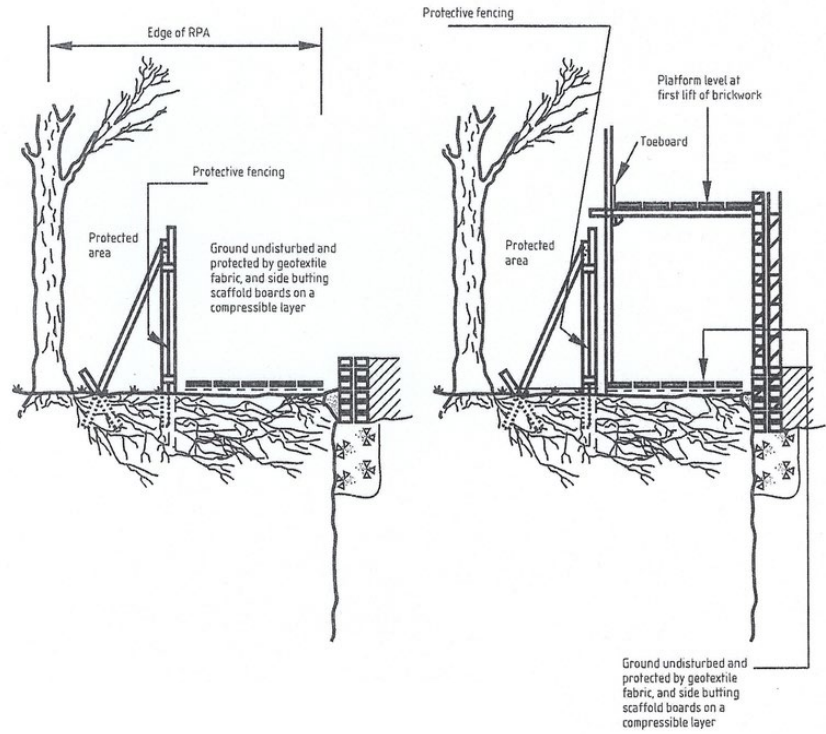


Figure 2 Default specification for protective barrier

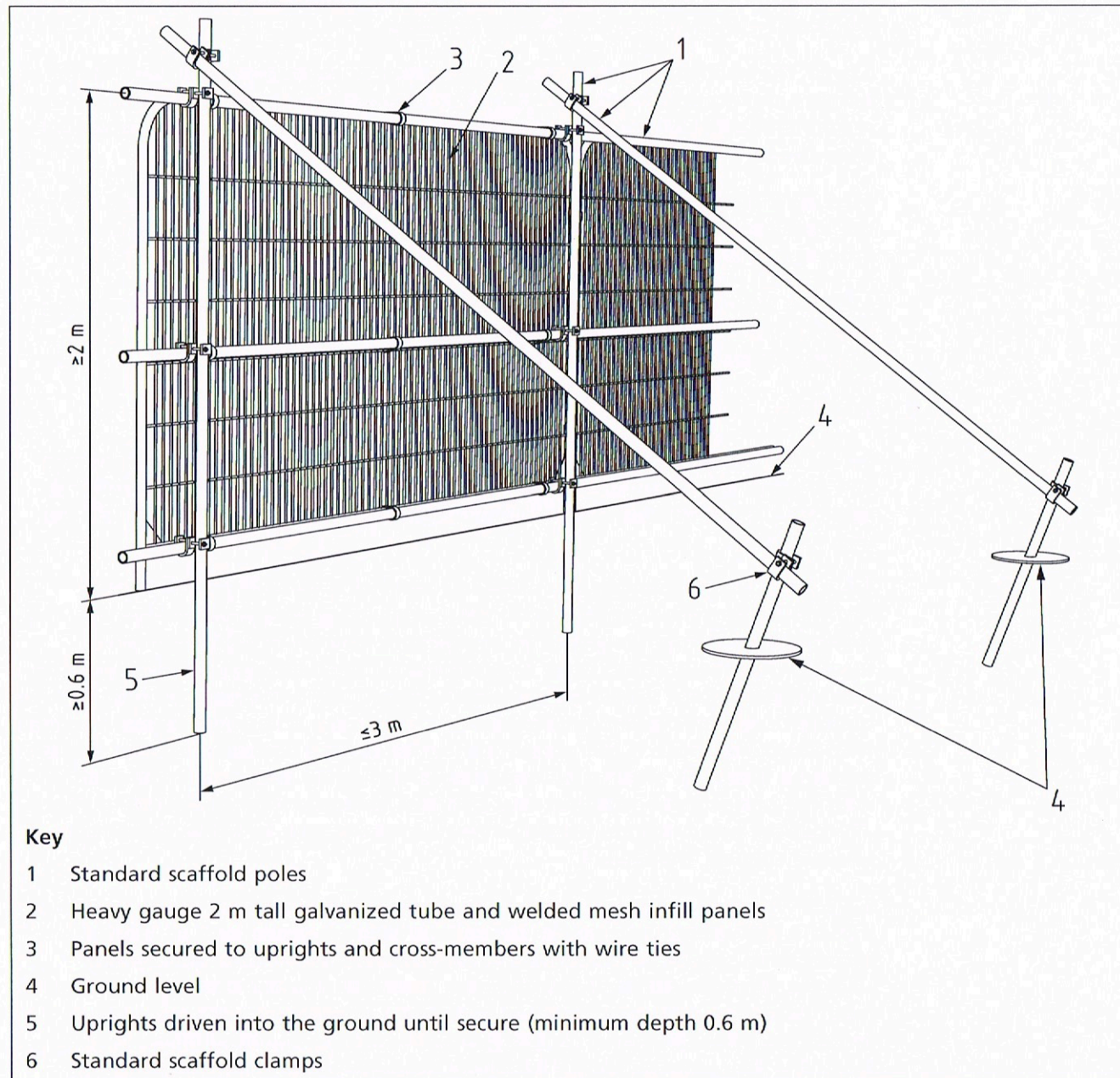
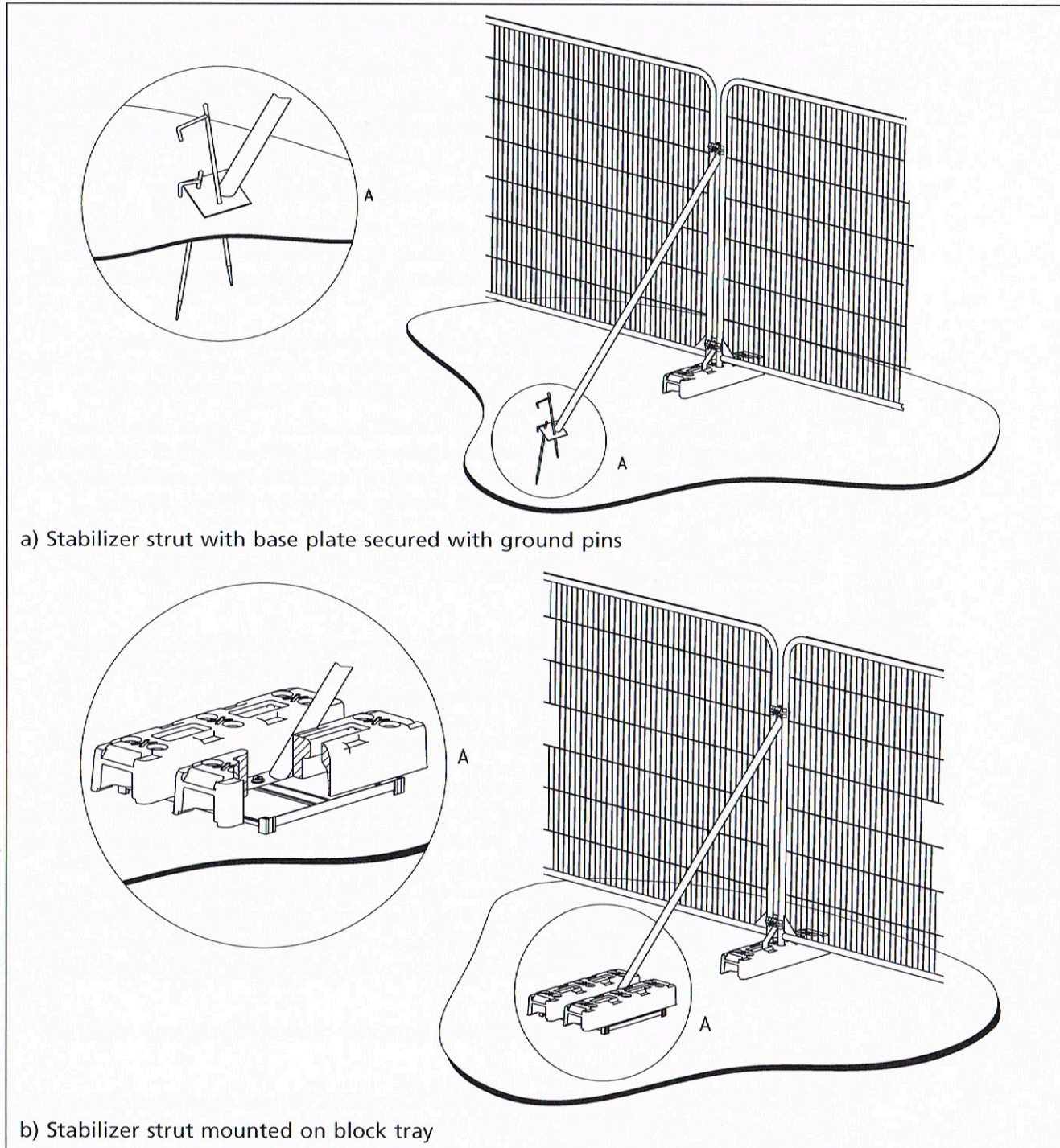


Figure 3 Examples of above-ground stabilizing systems



a) Stabilizer strut with base plate secured with ground pins

b) Stabilizer strut mounted on block tray

4.0 Site Access

4.1 Site access can only be gained via Sandy Lane only w3w location ///convines.jigsaw.broad.

5.0 Site Huts and Temporary Buildings

5.1 Site huts should be situated in the open spaces outside any CEZ. This must not be placed within any RPA.

6.0 General Protection Measures

6.1 Non compressive matting must be agreed and approved by the local Council for working areas within any RPA to avoid irrevocable ground compression.

6.2 No cement, oil, fuel or any other products likely to be detrimental to tree growth and life expectancy will be stored within 10m of the trunk of the tree, or any materials of any type stored within 10m. This is to stop contamination risks to the environment.

6.3 The following general protection measures will be implemented throughout the construction period:

- Concrete mixing or washing out will not be carried out within 10m of the trees RPA.
- No fires to be allowed at this site.
- Hydraulic cranes, forklifts (Inc. tele-handlers), excavators, plant or vehicles will not be used under and in the immediate vicinity of the trees crown.

7.0 Service Trenches

7.1 Any service trenches within any RPA will follow NJUG volume 7 and must be hand dug or completed with an airspade. This is to ensure no serious damage occurs to the roots and rooting matter. Root pruning where required will be carried out by an arboriculturalist. The services will be routed outside any RPA due to the location of the proposed area for the modular building.

8.0 Arboricultural Supervision and Aftercare

- 8.1 Supervision will be carried out throughout the construction process by a nominated arboriculturalist who will be responsible for consultations and guidance if required.
- 8.2 The arboriculturalist will complete checks throughout the construction process to ensure Tree Protection is sufficient and correct. The frequency of the visits will be dictated by the level of activity and volume of construction works taking place on the site. A report will be forwarded onto the site manager after the inspection.
- 8.3 On completion of the works the trees will be inspected by the arboriculturalist to check the condition of the tree and advise if any remedial work is necessary.

Appendix 4 Timetable of Works

Operations	Before commencing Construction Works	During Construction Works	On Completion of Construction Works
Carry out pre-construction remedial works	X		
Erect Protective Fencing and Ground Protection as directed in BS5837	X		
Attach warning signs on fencing around CEZ	X		
Maintain protective fencing and warning signs in good condition		X	
Complete construction works		X	
Arboricultural supervision and advice including site visits	X	X	X
Remove Protective Fencing			X
Check condition of protected trees and identify if remedial works is required	X		X
Sign off of site			X
Note: All works to comply with the attached Arboricultural Method Statement, BS5837: 2012 Tree in relation to design, demolition and construction – Recommendations and BS3998: 2010 Recommendations for tree work.			

BS5837:2012 Tree Survey

Target Trees

Client: Rob Walton
 Project: AIA Holme House V2
 Survey Date: 04/03/2022
 Surveyor: Mr I Flatters

79 Stalham Road
 Hoveton
 Norwich
 Norfolk
 NR128EF
 Phone: 01603916154

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC																								
		No	Ø (mm)	Spread (m)	Clear (m)																														
489 0489																																			
Common Beech <i>Fagus sylvatica</i>	19	1	1150	N 10.2 E 10 S 9.8 W 7.2	1.2 1.5 1.5 1.5	M	A: 598.4 R: 13.8	Good	C: Good S: Fair B: Good	Reduce crown(s) :: By 3.0m	B.1.2.3 20 to 40 yrs																								
461 0461																																			
Scots Pine <i>Pinus sylvestris</i>	15.4	1	368	N 4.5 E 1.2 S 2 W 1.1	4.5 8 8 8	SM	A: 61.3 R: 4.41	Fair	C: Fair S: Poor B: Fair	Fell :: Fell and remove stump(s)	U.2 <10 yrs																								
487 0487																																			
Scots Pine <i>Pinus sylvestris</i>	14.8	1	482	N 3 E 7.3 S 1.8 W 1.2	11 7 11 9	M	A: 105.1 R: 5.78	Good	C: Fair S: Poor B: Poor	Fell :: Fell to ground level Poor form, excessive lean towards property.	U.2 <10 yrs																								
487 487																																			
Scots Pine <i>Pinus sylvestris</i>	14.8	1	482	N 3 E 7.3 S 1.8 W 1.2	11 7 11 9	M	A: 105.1 R: 5.78	Good	C: Fair S: Poor B: Poor	Fell :: Fell to ground level Poor form, excessive lean towards property.	U.2 <10 yrs																								
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Age Classifications:</td> <td style="width: 15%;">N Newly planted</td> <td style="width: 15%;">EM Early Mature</td> <td style="width: 15%;"></td> <td style="width: 15%;">Condition:</td> <td style="width: 15%;">C Crown</td> <td style="width: 15%;">Stems:</td> <td style="width: 15%;">Ø Diameter</td> </tr> <tr> <td></td> <td>Y Young</td> <td>M Mature</td> <td></td> <td></td> <td>S Stem</td> <td></td> <td>(Eq) Equivalent stem diameter using BS5837:2012 definition</td> </tr> <tr> <td></td> <td>SM Semi-mature</td> <td>OM Over Mature</td> <td></td> <td></td> <td>B Basal area</td> <td>ERC:</td> <td>Estimated Remaining Contribution</td> </tr> </table>												Age Classifications:	N Newly planted	EM Early Mature		Condition:	C Crown	Stems:	Ø Diameter		Y Young	M Mature			S Stem		(Eq) Equivalent stem diameter using BS5837:2012 definition		SM Semi-mature	OM Over Mature			B Basal area	ERC:	Estimated Remaining Contribution
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Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
461 461 Scots Pine <i>Pinus sylvestris</i>	15.4	1	368	N E S W	4.5 1.2 2 1.1	4.5 8 8 8	SM A: 61.3 R: 4.41	Fair	C: Fair S: Poor B: Fair	Fell :: Fell and remove stump(s)	U.2 <10 yrs	
489 489 Common Beech <i>Fagus sylvatica</i>	19	1	1150	N E S W	10.2 10 9.8 7.2	1.2 1.5 1.5 1.5	M A: 598.4 R: 13.8	Good	C: Good S: Fair B: Good	Reduce crown(s) :: By 3.0m	B.1.2.3 20 to 40 yrs	
515 0515 Common Beech <i>Fagus sylvatica</i>	15.6	2	1170 (Eq)	N E S W	14 15 13 13	4 4 4 4	M A: 619.4 R: 14.04	Good	C: Good S: Poor B: Poor	Reduce crown(s) :: By 3.0m Multiple stems with varying tight unions.	C.2.3 10 to 20 yrs	
488 488 Scots Pine <i>Pinus sylvestris</i>	15	1	332	N E S W	2 1.5 2 2	10 10 11 11	M A: 49.9 R: 3.98	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
485 485 Douglas Fir <i>Pseudotsuga menziesii</i>	10.1	1	284	N E S W	4 4 4 2	1 1 1 1	SM A: 36.5 R: 3.4	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
469 469 Scots Pine <i>Pinus sylvestris</i>	15.4	1	514	N E S W	5 5 5 7.2	4 9.7 10 4	M A: 119.5 R: 6.16	Fair	C: Fair S: Fair B: Good	No action :: Unspecified	C.2 10 to 20 yrs	
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:			C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	ERC:		Estimated Remaining Contribution

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC			
		No	Ø (mm)	Spread (m)	Clear (m)									
458 0458 Cherry Laurel <i>Prunus laurocerasus</i>	7	2	206 (Eq)	N E S W	3 3 3 3	1.5 1.9 2 2	SM	A: 19.3 R: 2.47	Good	C: Good S: Fair B: Good	No action :: Unspecified ----- 20 to 40 yrs	C.2		
476 476 Western Red Cedar <i>Thuja plicata</i>	16.4	3	510 (Eq)	N E S W	4.5 2.8 7.2 4.3	2 2 2 2	M	A: 117.8 R: 6.12	Good	C: Good S: Fair B: Fair	No action :: Unspecified ----- 10 to 20 yrs	C.2		
482 482 Scots Pine <i>Pinus sylvestris</i>	14.8	1	375	N E S W	0 6.5 6.1 1.7	12 7 7 7	SM	A: 63.6 R: 4.49	Good	C: Good S: Fair B: Fair	No action :: Unspecified ----- 10 to 20 yrs	C.2		
481 481 Scots Pine <i>Pinus sylvestris</i>	14.6	1	251	N E S W	0 5 5 3.5	10 10 10 10	SM	A: 28.5 R: 3.01	Good	C: Good S: Fair B: Fair	No action :: Unspecified ----- 10 to 20 yrs	C.2		
480 480 Scots Pine <i>Pinus sylvestris</i>	15.4	1	482	N E S W	4.1 6.6 5.2 3.3	10 7 5 5	M	A: 105.1 R: 5.78	Good	C: Good S: Fair B: Good	No action :: Unspecified ----- 10 to 20 yrs	C.2		
479 479 Scots Pine <i>Pinus sylvestris</i>	15.4	1	547	N E S W	2 4.4 5 4.5	10 7 7 7	M	A: 135.4 R: 6.56	Good	C: Good S: Good B: Good	No action :: Unspecified ----- 20 to 40 yrs	B.1.2		
Age Classifications:	N	Newly planted	EM	Early Mature			Condition:	C	Crown	Stems:	Ø	Diameter		
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition		
	SM	Semi-mature	OM	Over Mature				B	Basal area	ERC:		Estimated Remaining Contribution		

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
477 477 Western Red Cedar <i>Thuja plicata</i>	12.6	1	253	N E S W	3.2 2.6 4.8 4.5	2 2 2 2	M A: 29 R: 3.03	Good	C: Good S: Good B: Good	No action :: Unspecified	B.1.2 20 to 40 yrs
484 484 Common Silver Fir <i>Abies alba</i>	12	1	254	N E S W	6 6 6 6	2 2 2 2	SM A: 29.2 R: 3.04	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs
474 474 Western Red Cedar <i>Thuja plicata</i>	15.3	1	313	N E S W	0 3 6 5	2 2 2 2	SM A: 44.3 R: 3.75	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs
459 0459 Common Lime <i>Tilia europaea</i>	12.8	1	660	N E S W	8.6 8.3 12.4 6.9	4 4 4 4	M A: 197.1 R: 7.92	Good	C: Good S: Fair B: Fair	No action :: Unspecified Located within driveway, area of heavy compression due to years of regular usage.	B.1.2.3 20 to 40 yrs
471 471 Western Red Cedar <i>Thuja plicata</i>	15.3	1	697	N E S W	5 5 5 5	2 2 2 2	M A: 219.8 R: 8.36	Good	C: Good S: Good B: Fair	No action :: Unspecified	B.1.2 20 to 40 yrs
468 468 Lawson Cypress <i>Chamaecyparis lawsoniana</i>	10.4	2	230 (Eq)	N E S W	2 2 2 2	0.5 0.5 0.5 0.5	SM A: 23.9 R: 2.75	Good	C: Good S: Fair B: Good	No action :: Unspecified	C.2.3 10 to 20 yrs
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	C	Crown	Stems:	Ø	Diameter	
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature		B	Basal area	ERC:		Estimated Remaining Contribution	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
467 467 Scots Pine <i>Pinus sylvestris</i>	15.4	1	411	N E S W	1 2 6 5	10 10 10 10	M A: 76.4 R: 4.93	Good	C: Good S: Fair B: Good	No action :: Unspecified	B.2 20 to 40 yrs	
466 466 Scots Pine <i>Pinus sylvestris</i>	15.4	1	403	N E S W	0.5 5 7 3	10 10 10 10	M A: 73.5 R: 4.83	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
465 465 Scots Pine <i>Pinus sylvestris</i>	15.4	1	348	N E S W	0 3 6 4	10 10 10 10	M A: 54.8 R: 4.17	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
464 464 Scots Pine <i>Pinus sylvestris</i>	15.4	1	395	N E S W	1.2 2 5.2 4	9 9 9 9	M A: 70.6 R: 4.74	Good	C: Good S: Good B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
463 463 Scots Pine <i>Pinus sylvestris</i>	15.4	1	359	N E S W	1.2 1.2 2.5 3.2	9 9 9 9	M A: 58.3 R: 4.3	Good	C: Good S: Good B: Good	No action :: Unspecified	B.2 20 to 40 yrs	
462 462 Scots Pine <i>Pinus sylvestris</i>	15.4	1	468	N E S W	6 5 1.5 5	9 9 9 9	M A: 99.1 R: 5.61	Good	C: Good S: Fair B: Good	No action :: Unspecified	C.1.2.3 20 to 40 yrs	
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:		C	Crown	Stems:		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	ERC:			Estimated Remaining Contribution

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
460 460 Sycamore <i>Acer pseudoplatanus</i>	15.2	1	602	N 9.8 E 9.9 S 8.4 W 9.9	4 4 4 4	M	A: 164 R: 7.22	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
459 459 Common Lime <i>Tilia europaea</i>	12.8	1	660	N 8.6 E 8.3 S 12.4 W 6.9	4 4 4 4	M	A: 197.1 R: 7.92	Good	C: Good S: Fair B: Fair	No action :: Unspecified Located within driveway, area of heavy compression due to years of regular usage.	B.1.2.3 20 to 40 yrs	
473 473 Western Red Cedar <i>Thuja plicata</i>	15.3	1	474	N 0.5 E 0.2 S 5 W 5	2 2 2 2	M	A: 101.7 R: 5.68	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
476 0476 Western Red Cedar <i>Thuja plicata</i>	16.4	3	510 (Eq)	N 4.5 E 2.8 S 7.2 W 4.3	2 2 2 2	M	A: 117.8 R: 6.12	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
513 0513 Douglas Fir <i>Pseudotsuga menziesii</i>	10	1	335	N 4.2 E 4.2 S 4.2 W 4.2	3 3 3 3	SM	A: 50.8 R: 4.02	Good	C: Good S: Good B: Good	No action :: Unspecified	B.1.2 20 to 40 yrs	
512 0512 Scots Pine <i>Pinus sylvestris</i>	10.1	2	589 (Eq)	N 6 E 6 S 6 W 3	6 6 6 6	M	A: 156.8 R: 7.06	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:		C	Crown	Stems:		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	ERC:			Estimated Remaining Contribution

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
511 0511 Scots Pine <i>Pinus sylvestris</i>	12	2	710 (Eq)	N 6 E 7.2 S 7.2 W 3.7	5 7 7 7 7 7 7 7	M	A: 228 R: 8.51	Good	C: Fair S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
510 0510 Scots Pine <i>Pinus sylvestris</i>	12	1	402	N 5 E 4 S 5.5 W 5	7 7 7 7 7 7 7 7	M	A: 73.1 R: 4.82	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
504 0504 Scots Pine <i>Pinus sylvestris</i>	12	1	469	N 3.6 E 4 S 2 W 4	9 9 9 9 9 9 9 9	M	A: 99.5 R: 5.62	Good	C: Fair S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
495 0495 Cedar of Lebanon <i>Cedrus libani</i>	15.9	1	863	N 6 E 6 S 6 W 6	2 2 2 2 2 2 2 2	M	A: 337 R: 10.35	Good	C: Good S: Fair B: Good	No action :: Unspecified	B.1.2.3 20 to 40 yrs	
488 0488 Scots Pine <i>Pinus sylvestris</i>	15	1	332	N 2 E 1.5 S 2 W 2	10 10 10 10 11 11 11 11	M	A: 49.9 R: 3.98	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
485 0485 Douglas Fir <i>Pseudotsuga menziesii</i>	10.1	1	284	N 4 E 4 S 4 W 2	1 1 1 1 1 1 1 1	SM	A: 36.5 R: 3.4	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	C	Crown	Stems:	Ø	Diameter		
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition		
	SM	Semi-mature	OM	Over Mature		B	Basal area	ERC:		Estimated Remaining Contribution		

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
484 0484 Common Silver Fir <i>Abies alba</i>	12	1	254	N E S W	6 6 6 6	2 2 2 2	SM A: 29.2 R: 3.04	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
482 0482 Scots Pine <i>Pinus sylvestris</i>	14.8	1	375	N E S W	0 6.5 6.1 1.7	12 7 7 7	SM A: 63.6 R: 4.49	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
481 0481 Scots Pine <i>Pinus sylvestris</i>	14.6	1	251	N E S W	0 5 5 3.5	10 10 10 10	SM A: 28.5 R: 3.01	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
480 0480 Scots Pine <i>Pinus sylvestris</i>	15.4	1	482	N E S W	4.1 6.6 5.2 3.3	10 7 5 5	M A: 105.1 R: 5.78	Good	C: Good S: Fair B: Good	No action :: Unspecified	C.2 10 to 20 yrs	
460 0460 Sycamore <i>Acer pseudoplatanus</i>	15.2	1	602	N E S W	9.8 9.9 8.4 9.9	4 4 4 4	M A: 164 R: 7.22	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
477 0477 Western Red Cedar <i>Thuja plicata</i>	12.6	1	253	N E S W	3.2 2.6 4.8 4.5	2 2 2 2	M A: 29 R: 3.03	Good	C: Good S: Good B: Good	No action :: Unspecified	B.1.2 20 to 40 yrs	
Age Classifications:	N	Newly planted	EM	Early Mature			Condition:	C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	ERC:		Estimated Remaining Contribution

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC		
		No	Ø (mm)	Spread (m)	Clear (m)								
458 458 Cherry Laurel <i>Prunus laurocerasus</i>	7	2	206 (Eq)	N E S W	3 3 3 3	1.5 1.9 2 2	SM	A: 19.3 R: 2.47	Good	C: Good S: Fair B: Good	No action :: Unspecified ----- 20 to 40 yrs	C.2	
474 0474 Western Red Cedar <i>Thuja plicata</i>	15.3	1	313	N E S W	0 3 6 5	2 2 2 2	SM	A: 44.3 R: 3.75	Good	C: Good S: Fair B: Fair	No action :: Unspecified ----- 10 to 20 yrs	C.2	
473 0473 Western Red Cedar <i>Thuja plicata</i>	15.3	1	474	N E S W	0.5 0.2 5 5	2 2 2 2	M	A: 101.7 R: 5.68	Good	C: Good S: Fair B: Fair	No action :: Unspecified ----- 10 to 20 yrs	C.2	
471 0471 Western Red Cedar <i>Thuja plicata</i>	15.3	1	697	N E S W	5 5 5 5	2 2 2 2	M	A: 219.8 R: 8.36	Good	C: Good S: Good B: Fair	No action :: Unspecified ----- 20 to 40 yrs	B.1.2	
469 0469 Scots Pine <i>Pinus sylvestris</i>	15.4	1	514	N E S W	5 5 5 7.2	4 9.7 10 4	M	A: 119.5 R: 6.16	Fair	C: Fair S: Fair B: Good	No action :: Unspecified ----- 10 to 20 yrs	C.2	
468 0468 Lawson Cypress <i>Chamaecyparis lawsoniana</i>	10.4	2	230 (Eq)	N E S W	2 2 2 2	0.5 0.5 0.5 0.5	SM	A: 23.9 R: 2.75	Good	C: Good S: Fair B: Good	No action :: Unspecified ----- 10 to 20 yrs	C.2.3	
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:			C	Crown	Stems:	Ø	Diameter	
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature				B	Basal area	ERC:		Estimated Remaining Contribution	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
467 0467 Scots Pine <i>Pinus sylvestris</i>	15.4	1	411	N E S W	1 2 6 5	10 10 10 10	M A: 76.4 R: 4.93	Good	C: Good S: Fair B: Good	No action :: Unspecified	B.2 20 to 40 yrs	
466 0466 Scots Pine <i>Pinus sylvestris</i>	15.4	1	403	N E S W	0.5 5 7 3	10 10 10 10	M A: 73.5 R: 4.83	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
465 0465 Scots Pine <i>Pinus sylvestris</i>	15.4	1	348	N E S W	0 3 6 4	10 10 10 10	M A: 54.8 R: 4.17	Good	C: Good S: Fair B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
464 0464 Scots Pine <i>Pinus sylvestris</i>	15.4	1	395	N E S W	1.2 2 5.2 4	9 9 9 9	M A: 70.6 R: 4.74	Good	C: Good S: Good B: Fair	No action :: Unspecified	C.2 20 to 40 yrs	
463 0463 Scots Pine <i>Pinus sylvestris</i>	15.4	1	359	N E S W	1.2 1.2 2.5 3.2	9 9 9 9	M A: 58.3 R: 4.3	Good	C: Good S: Good B: Good	No action :: Unspecified	B.2 20 to 40 yrs	
517 0517 Douglas Fir <i>Pseudotsuga menziesii</i>	16	1	659	N E S W	7 7 7 7	2 4 2 2	M A: 196.5 R: 7.9	Good	C: Good S: Good B: Fair	No action :: Unspecified	C.2 10 to 20 yrs	
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:		C	Crown	Stems:		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	ERC:			Estimated Remaining Contribution

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
462 0462												
Scots Pine <i>Pinus sylvestris</i>	15.4	1	468	N	6	9	M	A: 99.1 R: 5.61	Good	C: Good S: Fair B: Good	No action :: Unspecified	C.1.2.3 20 to 40 yrs
479 0479												
Scots Pine <i>Pinus sylvestris</i>	15.4	1	547	N	2	10	M	A: 135.4 R: 6.56	Good	C: Good S: Good B: Good	No action :: Unspecified	B.1.2 20 to 40 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area ERC: Estimated Remaining Contribution												

Report selection criteria.

Projects.

AIA Holme House V2

Date Range.

Any Date

Work types.

----> Fell :: Fell and remove stump(s)
 ----> Fell :: Fell to ground level
 ----> No action :: Unspecified
 ----> Reduce crown(s) :: By 3.0m

Latest Survey.

All surveys for the selected trees.
 ---> Last survey for each selected tree.

Work Completed.

---> Work Completed
 ---> Work Not Completed

Number of trees in selected Project(s) 34

Number of trees in Report selection 60

Age Classifications:

N	Newly planted	EM	Early Mature
Y	Young	M	Mature
SM	Semi-mature	OM	Over Mature

Condition:

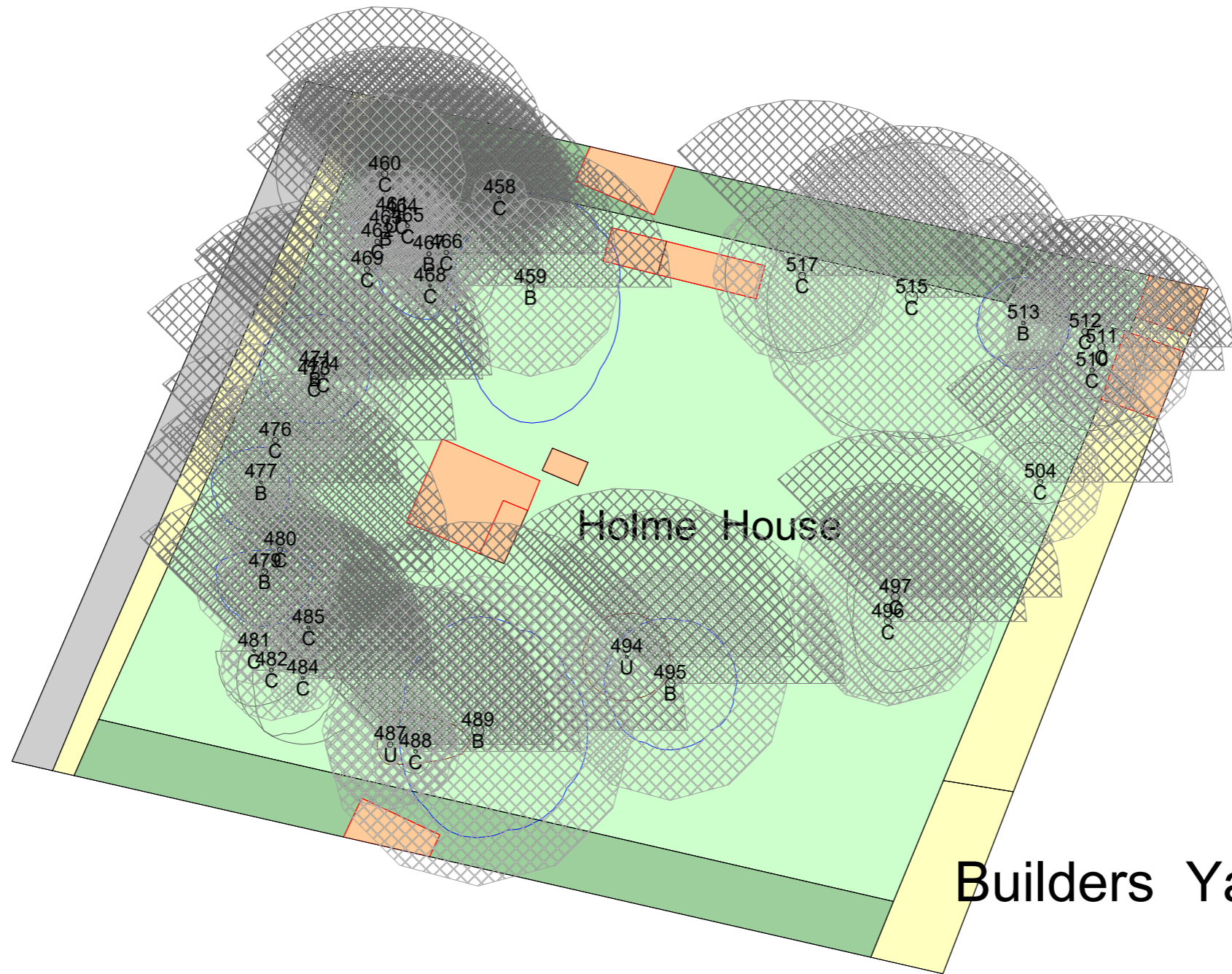
C	Crown
S	Stem
B	Basal area

Stems:

∅	Diameter
(Eq)	Equivalent stem diameter using BS5837:2012 definition

ERC:

Estimated Remaining Contribution



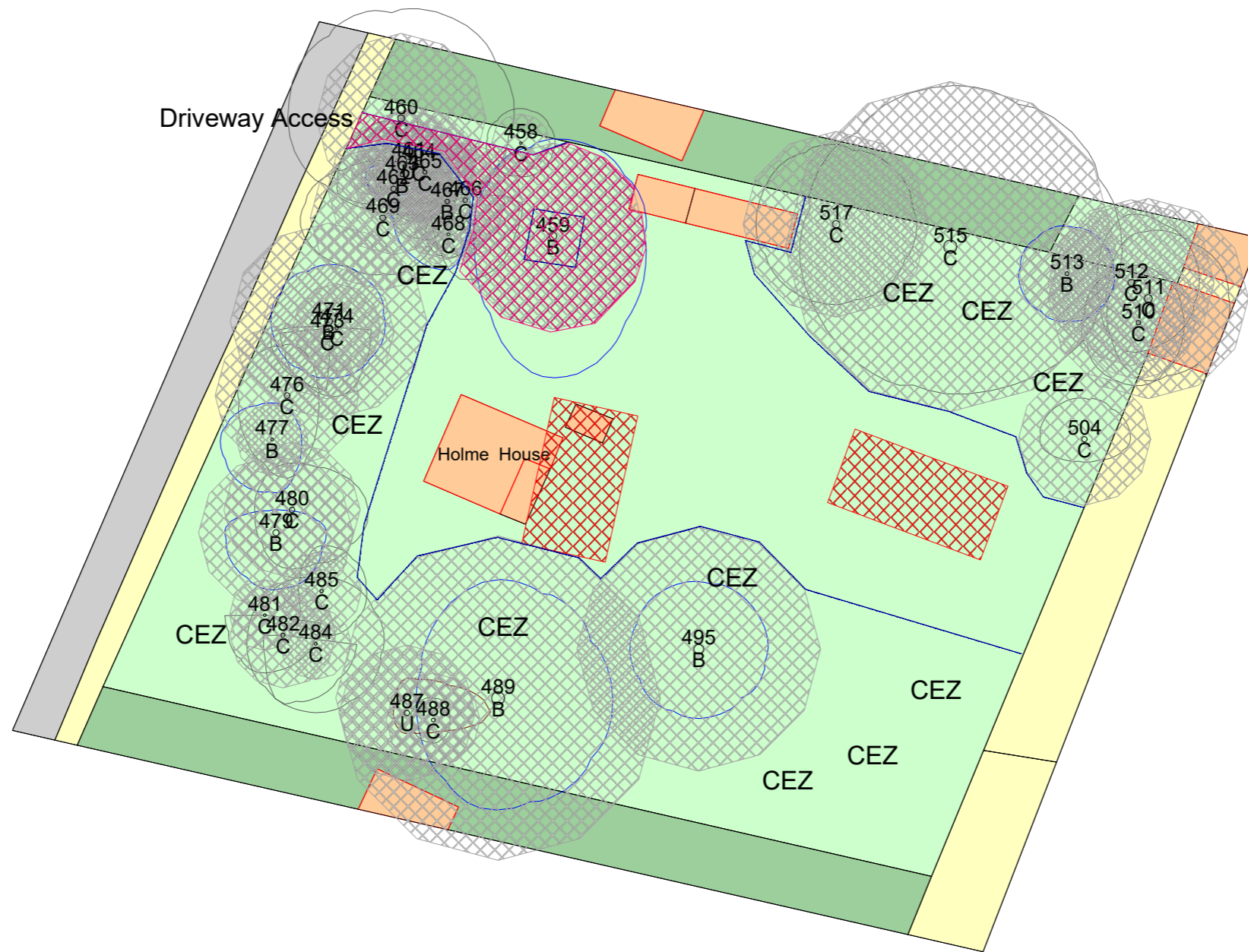
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Target Trees
 79 Stalham Road, Hoveton, Norfolk, NR12 8EF
 T: 01603 916154 E: info@targettrees.com

TPP - Holme House

SCALE : 1 : 500 @ A3	DATE : 11/03/2022	
MAP FILENAME : AIA-RWalton-2022		

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Key

- Ground Protective matting
- Protective fencing

Crown Spread	Root Protection Area	Shading Arc
Category 'A'	Category 'B'	Category 'C'
Category 'U'		

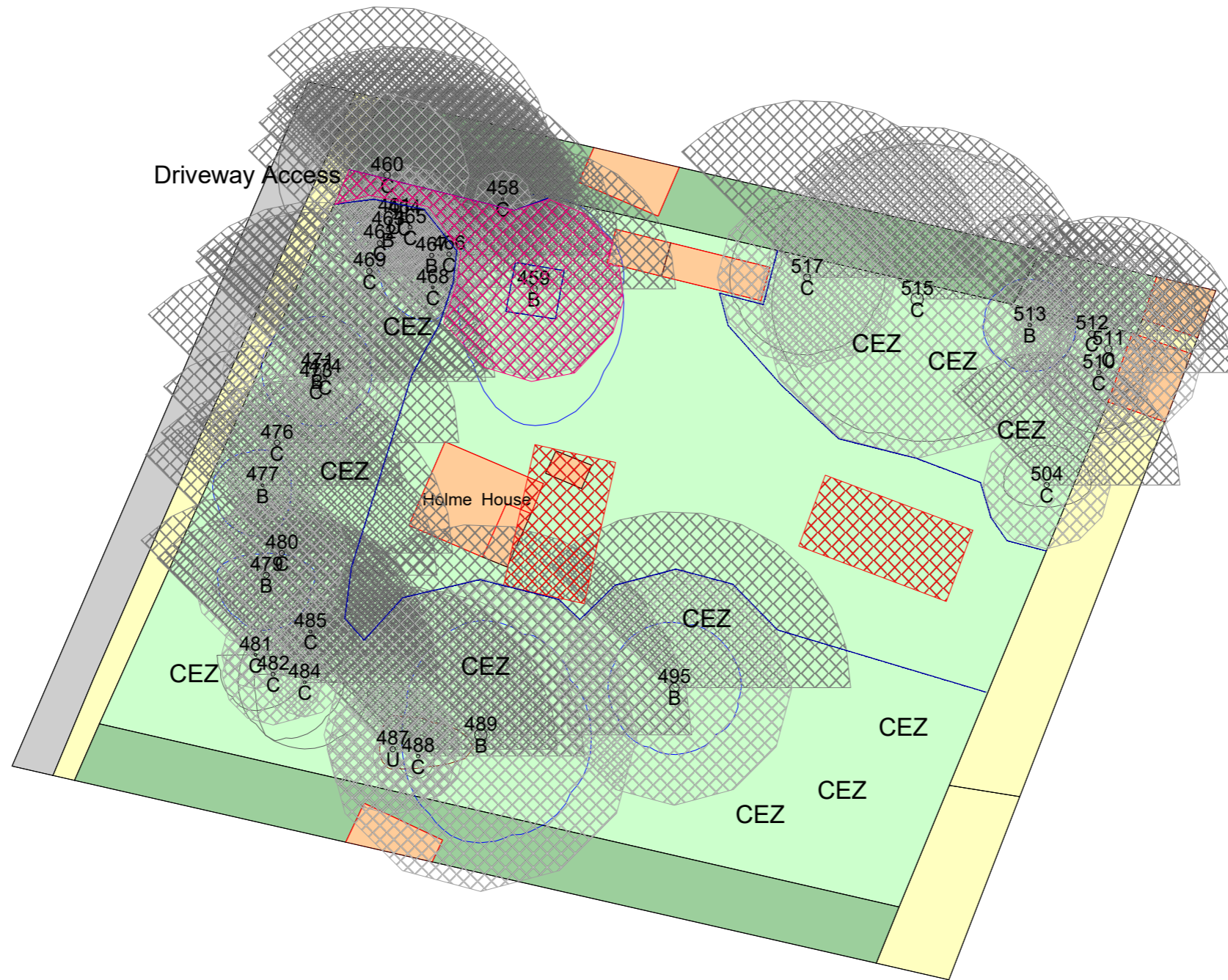
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TPP - Holme House


SCALE : 1 : 500 @ A3	DATE : 05/04/2022	
MAP FILENAME : AIA-RWalton-2022		

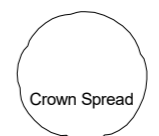






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Key

 Ground Protective matting


 Protective fencing

 Crown Spread	 Root Protection Area	 Shading Arc	
 Category 'A'	 Category 'B'	 Category 'C'	 Category 'U'

0 40m

Target Trees
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T: 01603 916154 E: info@targettrees.com

TPP - Holme House

SCALE : 1 : 500 @ A3	DATE : 05/04/2022	
MAP FILENAME : AIA-RWalton-2022		

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