

**Bridge End, Newton Poppleford**

**British Standard 5837:2012 Arboricultural Report**

**Tom Hurley** BSc(For)Hons, MArborA

20<sup>th</sup> February 2024

advanced

Arboriculture

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Drawings and Arboricultural Guidance Sheets included within this report:

- Tree Location Plan
- Tree Constraints Plan
- Tree Protection Plan
- Arboricultural Method Statement Plan
- Arboricultural Induction Sheet
- Arboricultural Supervision Inspection Record
- AGS101 Braced Heras Fencing
- AGS408 Demolition of Structures and Surfaces Near Trees
- AGS801 Protective Fencing Poster
- AGS802 Site Office Tree Poster

# Introduction and Heads of Terms

<b>Project Reference</b>	TH/B803/0923
<b>Site Address</b>	Bridge End, Newton Poppleford
<b>Instruction</b>	Bell Cornwell, LLP
<b>Lead Surveyor</b>	Tom Hurley, BSc(For)Hons, MArborA
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<b>Revision</b>	1.0

## **Heads of Terms and Document Limitations**

The purpose of this report is to provide a full arboricultural appraisal of the site and consider the effect of any construction proposals based on the data collected, following the principles of British Standard 5837:2012 *Trees in relation to design, demolition and construction – Recommendations*. As well as informing the overall design and layout of the site, the report shall provide a supporting statement for a planning application to the local planning authority. This report has been undertaken in accordance with the instructions of the client and is intended for their sole and specific use. Any transfer of ownership of this report will require the written consent of the original client and Advanced Arboriculture Ltd reserve the right to charge a fee for the preparation of any future Letters of Resilience.

The report has been prepared based on information available to Advanced Arboriculture Ltd at the time of writing, however, further technical, topographical, arboricultural, architectural, ecological or engineering information may come to light at any point subsequent to the site survey, including after the relevant arboricultural conditions have been cleared. It is the responsibility of the client or their delegated team to draw any changes in the project scope to our attention at the earliest opportunity.

Trees are dynamic structures and advice should be taken on validity two years after the survey was undertaken. The report may not be considered valid after more than three years. The report has been prepared using all reasonable skill and care. Opinions are provided in good faith.

The scheduling and implementation of any tree protection measures detailed in the report also remains the responsibility of the client or their delegated team. Whilst the project team may appoint any suitably qualified third-party arboricultural supervisor, Advanced Arboriculture Ltd are able to take on this role subject to the project manager's formal instruction.

Advanced Arboriculture Ltd shall not be held liable for any unauthorised deviation from the tree management recommendations, the tree protection measures and the project scheduling detailed within this report.

This report, its drawings, Arboricultural Guidance Sheets and any photographs remain © Advanced Arboriculture Ltd.

# Tree Stock Appraisal

Bridge End in Newton Poppleford comprises a redundant agricultural yard set to the south of the A3052. The River Otter runs immediately adjacent to the western boundary while the mill stream runs off to the east.

The yard features one large barn set approximately centrally, along with a number of smaller outbuildings and storage containers. A soil mound has been generated to the north-west of the barn but otherwise the central area is relatively clear and heavily compacted.

A total of two individual trees, three areas and one group of trees have been identified and surveyed for the purposes of this report.

The first individual tree, T1, is a Poplar set immediately to the east of the entrance gate. The tree features a compromised structural form and an inherently limited safe useful life expectancy, however, it is highly visible from the public highway.

The second individual tree, T2, is a mature Willow set towards the western side of the yard. This riparian specimen has partially collapsed in the past and will be vulnerable to further structural failures due to the length and weight of the lateral limbs.

Both individual trees are British Standard 5837:2012 category C specimens.

Area A1 comprises a discrete, incoherent cluster of trees growing to the north-east of the barn. No individually or collectively outstanding stems are present within the group and it is therefore considered to be a category C feature.

Area A2 forms a strip of primarily naturally regenerated stems growing atop the riverbank. Whilst none of the stems are individually outstanding, collectively they do form a good landscape feature as well as offering effective habitat.

Area A3 comprises a line of stems running alongside the road. Probably established as a hedgerow originally, they offer good screening between the site and the public highway, though the presence of Ash is a concern. It is reasonable to expect these stems to be kept at a restricted height so as to maintain a clearance from the overhead telephone line above. It is noted that even in the absence of the Ash in due course, there will still be ample vegetation retained.

Both area A2 and A3 are British Standard 5837:2012 category B features.

Finally, group G1 comprises four Cypress stems growing immediately adjacent to the entrance track. These trees are not in keeping with the rural character of the location and are further compromised by Poplar T1 which is growing at the northern end of the group. Group G1 is a category C feature.

A comprehensive commentary on each tree, including full spatial data, is provided within the attached Arboricultural Data Tables.

## A Note on Ash

Ash Dieback Disease (ADD) is now widespread throughout the UK, though specific symptoms are not always obvious on more mature trees in the early stages of infection. The rate of decline of infected trees and the long-term prognosis for the health of Ash trees generally is currently uncertain. Some sources suggest that the UK may experience losses of up to 90% or more of its Ash trees in some areas; woodland trees in particular appear to be particularly prone to decline.

The identification of ADD infected Ash can be difficult from around October through early June, when trees are normally not in full leaf, unless the trees are very severely affected and contain large sections of deadwood.

Once infected, trees can decline rapidly and quickly lose their structural integrity. On reaching less than 50% of their normal foliar density, they are likely to require removal where they pose a threat to persons or property. Such trees can become unpredictable and dangerous to fell or even to dismantle using normal rope access techniques, and may thus require removal using a mobile elevated work platform (MEWP) or other machinery. Hence, where trees in an early stage of infection are in locations that are inaccessible to machinery and would pose a risk to persons or property if they declined further, it may be appropriate to consider their pre-emptive removal while it is still possible to deal with them safely using conventional techniques. Each tree will need to be considered on its own merits, but the removal of good quality trees as a precautionary measure is unlikely to be recommended at this stage.

Current recommendations on those sites where Ash trees are present within falling distance of significant targets are that trees be inspected regularly, so as to account for the potentially rapid decline of currently healthy trees should ADD occur; this also applies where we may have not noted specific cases of ADD on a site at the time of survey, but we have no doubt that the disease will be present throughout the locality. Should any Ash trees on site show signs of rapid defoliation or dieback then further advice from an experienced arboriculturist should be sought.

When considering the longer-term management of Ash trees on a site, our advice is that, where such trees are within falling distance of significant targets or otherwise present a significant constraint to the site, then lesser quality trees are unlikely to be worthy of consideration for longer term retention. In these cases, removal of these lesser-quality Ash trees and their replacement with suitable alternative may well result in a net gain in amenity, landscape and biodiversity values for the site over the medium to long term.

# Arboricultural Impact Assessment

The proposals show the conversion of the existing barn into a residential dwelling. The proposals show the existing yard utilised for parking with the land to the south-east of area A1 being used for a drainage field connected to the package treatment plant.

The dwelling itself presents a negligible threat to any trees on site as it is an existing structure located some distance from any arboricultural constraints. Furthermore, the structure is not subject to any shade or perceived domination constraints associated with trees.

The area between the barn and the northern boundary remains heavily compacted as is therefore well-suited to parking and turning. Whilst the driveway runs across the nominally circular root protection area of Poplar T1 and the Cypresses of group G1, this is an existing surface and can be reasonably utilised for a domestic access; resurfacing this access will not pose a significant risk of harm to the adjacent trees.

The provision of the foul drainage system is also considered to be arboriculturally sustainable with the pipework, package treatment plant and the drainage field all sitting outside of any trees' root protection areas.

It is recommended that this opportunity be taken to reduce Willow T2 in size. This will allow for the clearance of all failed limbs and ensure that the tree is kept as an appropriate size for its location. These works will have a negligible detrimental impact on the tree's visual amenity value and should serve to prolong its safe useful life expectancy.

Care will be required prior to mobilisation to site for construction in order to remove the large area of soil and rubble located to the east of Willow T2. It is recommended that this be extracted using a grab lorry or excavator working on the existing heavily compacted surface, prior to installation of the protective fencing.

Whilst the details for the provision of new electricity and water supplies are not yet known, it is anticipated that these can be

installed with negligible risk of harm to retained trees. It may, however, be necessary to install a trench through area A3 from the public highway; this could be located through the line of one of the Ash stems in recognition of its limited safe useful life expectancy due to Ash Dieback Disease.

## **Recommendations and Conclusions**

Overall, the proposals allow for the retention of all key trees with a negligible risk of any harm as a consequence of construction activities. The site layout is therefore considered to be sustainable from an arboricultural perspective subject to the appropriate care being taken during construction, and robust protective fencing and ground protection being installed and maintained for the duration of the project.

This document includes a full detailed Tree Protection Plan and Arboricultural Method Statement which will ordinarily be referenced within a condition of any planning consent granted by the local planning authority.

# Tree Works Recommendations

Ref	Species	Proposed Works
T2	Willow	<ul style="list-style-type: none"><li>• Reduce northern, eastern and southern aspects by approximately 6.0m to contain and tidy while taking out all damaged limbs.</li></ul>

## **Informatives**

The appointed tree work contractor must ensure that all tree works comply with British Standard 3998:2010 *Tree Works – Recommendations* and it is strongly advised that the appointed tree contractor is Arboricultural Association Approved to ensure high standards and a consistency of work.

Under the Wildlife & Countryside Act 1981 & Countryside & Rights of Way Act 2000 it is an offence to recklessly damage or destroy the nest of a wild bird whilst in use or being built; planning consent does not provide a defence against prosecution under these Acts. Trees, shrubs and hedgerows on this site may contain nesting birds between 1st March and 31st August and it is advisable to undertake a survey of the site before commencing any vegetation removal between these dates, to ensure that no nesting birds are present. Advanced Arboriculture are able to undertake a survey to identify the presence of bats or nesting birds if required at the request of the client.

# Tree Protection Statement

## Tree Protection Statement Introduction

The attached Tree Protection Plan and Arboricultural Method Statement detail the tree protection measures required for the proposals, the timing of the provision of tree protection measures, and the retention of a suitably qualified arboricultural supervisor in the event of any accidental damage to the trees.

This document must be reviewed by the project manager and/or site manager with the arboricultural supervisor prior to the commencement of any works to ensure that both the scheduling and protection measures detailed within the Arboricultural Method Statement remain achievable and realistic. Once the Tree Protection Plan and Arboricultural Method Statement Plans have been reviewed and signed off by both the site manager and arboricultural supervisor, these drawings must be held on site for ongoing reference and to allow the local planning authority to check them at any reasonable time. Any variations to the Tree Protection Plan or Arboricultural Method Statement must be copied to the local planning authority; in the case of major variations to these documents, written approval may be required.

## Arboricultural Supervision

An ad-hoc arboricultural inspection programme is shown on the Arboricultural Method Statement Plans. Inspections must be requested by the project manager and/or site manager where the project scope changes, or where unforeseen construction activities may present a threat to retained trees on or adjacent to the site. The attached Arboricultural Supervision Record Sheet must be filled in on an ongoing basis and retained on site for inspection by the local planning authority at any reasonable time.

## Staff Induction

The Arboricultural Method Statement references the attached Arboricultural Staff Induction Sheet. This must be read, understood and signed by all site operatives, including sub-contractors, as an integral element of their initial site induction. The purpose of this is to minimise the potential for damage to trees during construction.

## Protective Fencing

Protective fencing is a key element of the tree protection measures for this project. This comprises 49 braced Heras panels (see Arboricultural Guidance Sheet AGS101 attached); the specification for these matches the specification detailed within British Standard 5837:2012. There may be instances on site where it is desirable to substitute braced Heras fencing with site hoarding; the specification for the hoarding and the method statement for its construction must be approved prior to installation by the arboricultural supervisor.

All fencing must be erected following clearance of the soil and rubble mound to the east of Willow T2 but prior to the main commencement of any mobilisation to site by contractors, plant or materials and must remain in situ until all construction works have been completed and approval for removal is granted by the arboricultural supervisor.

## Site Organisation

Prior to the commencement of any demolition or construction activities on site, the locations for site offices, welfare facilities, parking, a materials storage area and a concrete/plaster mixing area must be designated and marked on the Tree Protection Plan.

It may be possible to locate site huts, cabins and welfare facilities where protective fencing is shown on the Tree Protection Plan, however, this will only be possible with the written consent of the arboricultural supervisor and subject to the following conditions:

- The site huts will remain in situ for the duration of the project (if not, protective fencing will still be required prior to the installation of the huts, or after their removal);
- There is sufficient crown height available to accommodate the huts without the need for unauthorised crown lifting or pruning;
- Any services or sewerage for the huts must be remain above ground and not require excavation;

- No discharge from the huts, including grey water, shall be permitted within the demarcated construction exclusion zone, with the exception of rainwater from the roofs or guttering;
- Where foundation pads are required to support huts, these must comprise timber sleepers or Jack Pads (see [www.jackpad.co.uk](http://www.jackpad.co.uk)) placed on the existing ground level (digging foundations in must be avoided).

Parking, materials storage and materials mixing must remain outside of the designated construction exclusion zones, and the materials mixing area should be bunded or contained such that any spillage or rinsings cannot run towards the root protection areas of any retained trees.

If bonfires are permitted, these must remain at least ten metres from either the construction exclusion zone, root protection area or crown spread of any tree, whichever is closer; this is to minimise any risk of heat damage to either the rooting system or crown of any retained tree.

## Demolition of Existing Structures and Surfaces

Care will be required when undertaking demolition works on site. Demolition activities must be informed by the diagrams and information detailed within Arboricultural Guidance Sheet AGS408. A copy of this document must be included within all tender documents to ensure that the appointed contractor factors tree constraints and protection into their workflow and costings.

## Root Pruning

Where excavation is required on the outer sections of the root protection area, it will be necessary to undertake controlled excavation and root pruning. It is recommended that this be undertaken by a suitably qualified arboricultural contractor in accordance with the method statement detailed within Arboricultural Guidance Sheet AGS403. Advanced Arboriculture Ltd are able to arrange these works on request.

# Tree Protection Statement

## Services

The location of proposed new services has not been made available to Advanced Arboriculture Ltd at the time of this report's preparation. All services must be routed outside of the root protection areas of all retained trees. Where this is not possible, alternative installation methods must be investigated, including manual digging, directional boring, etc.

It is recommended that the engineering drawings showing the proposed service routes are forwarded to Advanced Arboriculture Ltd for review prior to the commencement of any ground works or services installation. Advanced Arboriculture Ltd

are able to forward a PDF or AutoCAD DWG file directly to the project engineers on request showing the accurate locations of the root protection areas.

## Hard and Soft Landscaping

Any hard landscaping within the root protection area of any retained trees which includes changes in ground levels (cut or fill), new walls or new paths will require further arboricultural review to ensure that any detrimental impact is limited. If unsustainable damage is considered to be unavoidable then the landscaping scheme will require revision.

Soft landscaping near retained trees, including the planting of new trees and shrubs, must be undertaken with considerable care due to the potential for rooting damage. Mechanical rotovation or cultivation within the construction exclusion zones shown on the Tree Protection Plan must be avoided as this can cause significant damage to the rooting system of adjacent trees.

All new trees must be sourced from a reputable nursery and planted in accordance with the recommendations detailed within British Standard 8545:2014. Advanced Arboriculture Ltd are able to provide an independent verification of the quality of new trees prior to planting on request.



# Arboricultural Data Tables

## Cascade Chart For Tree Quality Assessment (Source: British Standard 5837:2012)

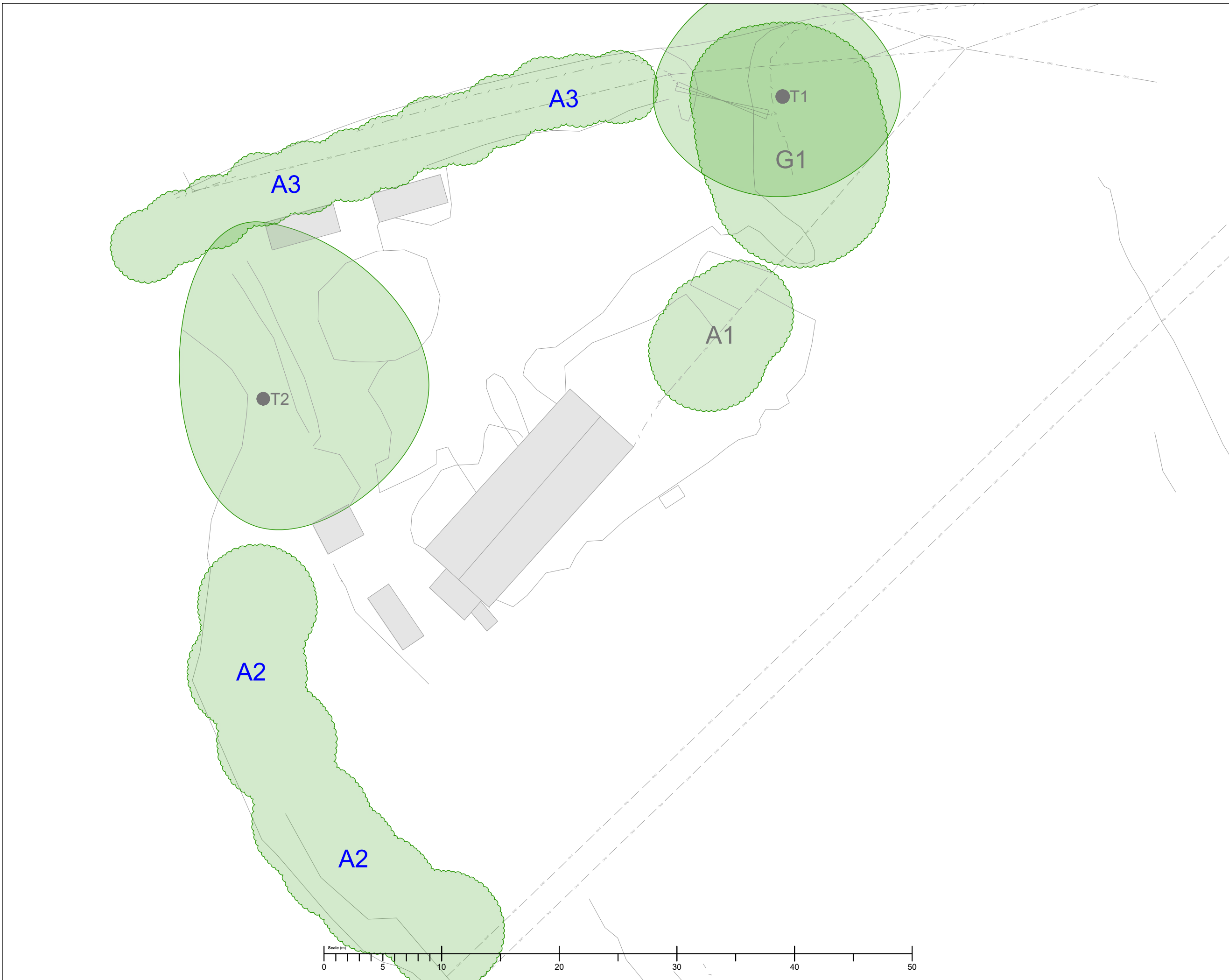
Category and definition	Criteria (including subcategories where appropriate)		
<b>Trees unsuitable for retention</b>			
<b>Category U</b> Those in such a condition that they cannot realistically be retained as living trees in the context or the current land use for longer than 10 years	<ul style="list-style-type: none"> <li>Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li> <li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li> <li>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li> </ul> Note: Category U trees can have existing or potential conservation value which it may be desirable to preserve		
	<b>1. Mainly arboricultural qualities</b>	<b>2. Mainly landscape qualities</b>	<b>3. Mainly cultural values, including conservation</b>
<b>Trees to be considered for retention</b>			
<b>Category A</b> Trees of high quality with an estimated life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual: or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)
<b>Category B</b> Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to a wider locality	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood - pasture)
<b>Category C</b> Trees of low quality with an estimated remaining life expectancy or at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of a very limited merit or such an impaired condition that they so not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value

Abbreviations used in the survey are as follows:

<b>Tree No</b>	Corresponding to plan	<b>Cr Ht</b>	Height of crown above ground level	<b>P</b>	Poor (trees with significant defects)
<b>Species</b>	Common name	<b>Age Class</b>	Y Young (grown to less than one third of life expectancy)	<b>Dead</b>	Dead
<b>Ht</b>	Detailed in metres			<b>BS Cat</b>	British Standard 5837:2012 Category (see Table 1 in British Standard 5837:2012 for full details)
<b>Sprd</b>	Crown spread as measured at the four cardinal points of the compass		MA Middle Aged (grown to between one to two-thirds of life expectancy)	<b>m/s</b>	Denotes multistem tree along with the individual stem diameters
<b>Stem Dia</b>	Diameter at breast height in mm (1.5 metres above ground level), or measured in accordance with the prescribed British Standard protocol in the case of multi-stemmed specimens (see Annex C in British Standard 5837:2012 for full details)		M Mature (grown to over two thirds of normal life expectancy)	<b>#</b>	Denotes estimated value where access was not possible
			OM Over Mature		
			V Veteran		
<b>RPA</b>	Root Protection Area radius in metres (derived from the British Standard 5837:2012 formulae)	<b>SULE</b>	Safe useful life expectancy range in years		
		<b>Cond</b>	Condition, both physiological and structural:		
<b>Ht to L/B</b>	Crown height, as measured to the height of the lowest branch		G Good (trees with no significant defects)		
			F Fair (trees with some defects amenable to surgery)		
<b>Dir</b>	Direction from which the lowest branch arises				


Tree No.	Species	Height (m)	Cr Sprd (m)	Stem Dia (mm)	RPA Rad (m)	RPA Area (m <sup>2</sup> )	LB Ht (m)	Cr Ht (m)	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T1	Poplar	26.0	N: 10.0 E: 10.0 S: 8.5 W: 11.0	1170 (m/s: 900, 750)	14.10	625	0.0/S	1.0	MA	10-20	G/F	<ul style="list-style-type: none"> <li>• Tree features low fork at crown break</li> <li>• Form compromised by stems in adjacent group G1</li> <li>• Front boundary specimen</li> <li>• Suitability for retention in proposed setting: Low</li> </ul>	<ul style="list-style-type: none"> <li>• No works required at the present time</li> </ul>	C1
T2	Willow	14.0	N: 15.0 E: 14.0 S: 11.0 W: 7.0	1100	13.20	547	0.5/N	1.0	M	10-20	F/P	<ul style="list-style-type: none"> <li>• Riparian specimen</li> <li>• Tree partially collapsed historically</li> <li>• Ivy covered specimen</li> <li>• Multistem specimen with low crown break</li> <li>• Extensive amount of rubble deposited within root protection area</li> <li>• Suitability for retention in proposed setting: Moderate</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce northern, eastern and southern aspects by approximately 8m</li> </ul>	C2

Ref No.	Species	Height (m)	Cr Sprd (m)	Stem Dia (mm)	RPA Rad (m)	RPA Area (m <sup>2</sup> )	LB Ht (m)	Cr Ht (m)	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
A1	<ul style="list-style-type: none"> <li>Cypress</li> <li>Hawthorn</li> <li>Sycamore</li> <li>Poplar</li> </ul>	<15.0	Max: 5.0m	<550	<6.60	<137	>=0.0	>=0.0	Y-MA	10-20	F-G/P-G	<ul style="list-style-type: none"> <li>Line of overgrown ornamental conifers</li> <li>Mixed understory of trees</li> <li>Suitability for retention in proposed setting: Low</li> </ul>	<ul style="list-style-type: none"> <li>No works required at the present time</li> </ul>	C1
A2	<ul style="list-style-type: none"> <li>Sycamore</li> <li>Goat Willow</li> <li>Alder</li> <li>Elder</li> </ul>	<14.0	Max: 5.0m	<400	<4.80	<72	>=0.0	>=0.0	Y-MA	>40	F-G/F-G	<ul style="list-style-type: none"> <li>Belt of riparian specimens</li> <li>Specimens run parallel with river bank</li> <li>Landscape feature</li> <li>Suitability for retention in proposed setting: High</li> </ul>	<ul style="list-style-type: none"> <li>No works required at the present time</li> </ul>	B2
A3	<ul style="list-style-type: none"> <li>Hawthorn</li> <li>Sycamore</li> <li>Ash</li> <li>Blackthorn</li> </ul>	<8.0	Max: 3.0m	<250	<3.00	<28	>=0.0	>=0.0	Y	>40	F-G/F-G	<ul style="list-style-type: none"> <li>Telephone cables above specimens</li> <li>Unmanaged roadside stems with Ash present</li> <li>Suitability for retention in proposed setting: High</li> </ul>	<ul style="list-style-type: none"> <li>No works required at the present time</li> </ul>	B2
G1	<ul style="list-style-type: none"> <li>Cypress</li> </ul>	<24.0	N: <4.0 E: <8.0 S: <6.5 W: <8.0	<650	<7.80	<191	>=1.0	>=2.0	MA	20-40	G/F-G	<ul style="list-style-type: none"> <li>Line of 4 conifers</li> <li>Ornamental specimens</li> <li>Compromised by T1 growing within group</li> <li>Suitability for retention in proposed setting: Low</li> </ul>	<ul style="list-style-type: none"> <li>No works required at the present time</li> </ul>	C1



### Key

- T<sub>n</sub> Category A tree
- T<sub>n</sub> Category B tree
- T<sub>n</sub> Category C tree
- T<sub>n</sub> Category U tree
- Individual tree crown spread
- Collective crown spreads
- Root protection area
- BS5837:2012 shade path
- Proposed development footprint
- Proposed underground services routes
- Construction exclusion zone
- Braced Heras fencing (see AGS101)



N

### Notes

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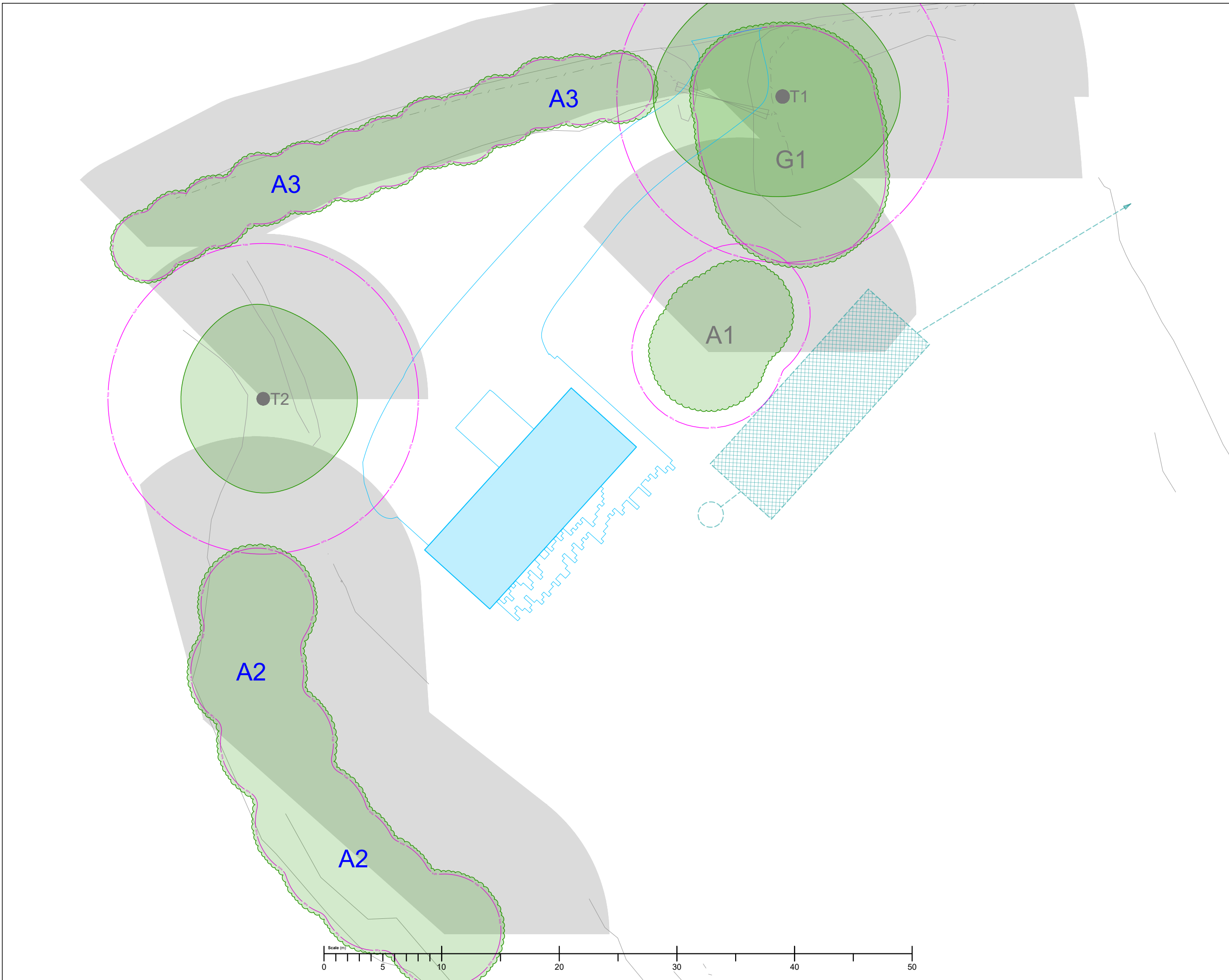
Drawing Title:  
**Tree Location Plan**

Location:  
**Bridge End  
Newton Poppleford**

Date:	Project Reference:	Revision:
20.02.2024	TH/B803/0923	1.1
Scale:	Paper Size:	Drawn By:
1:300	A3	TH

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### Key

- $T_n$  Category A tree
- $T_n$  Category B tree
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N

**Notes**

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Drawing Title:  
**Tree Constraints Plan**

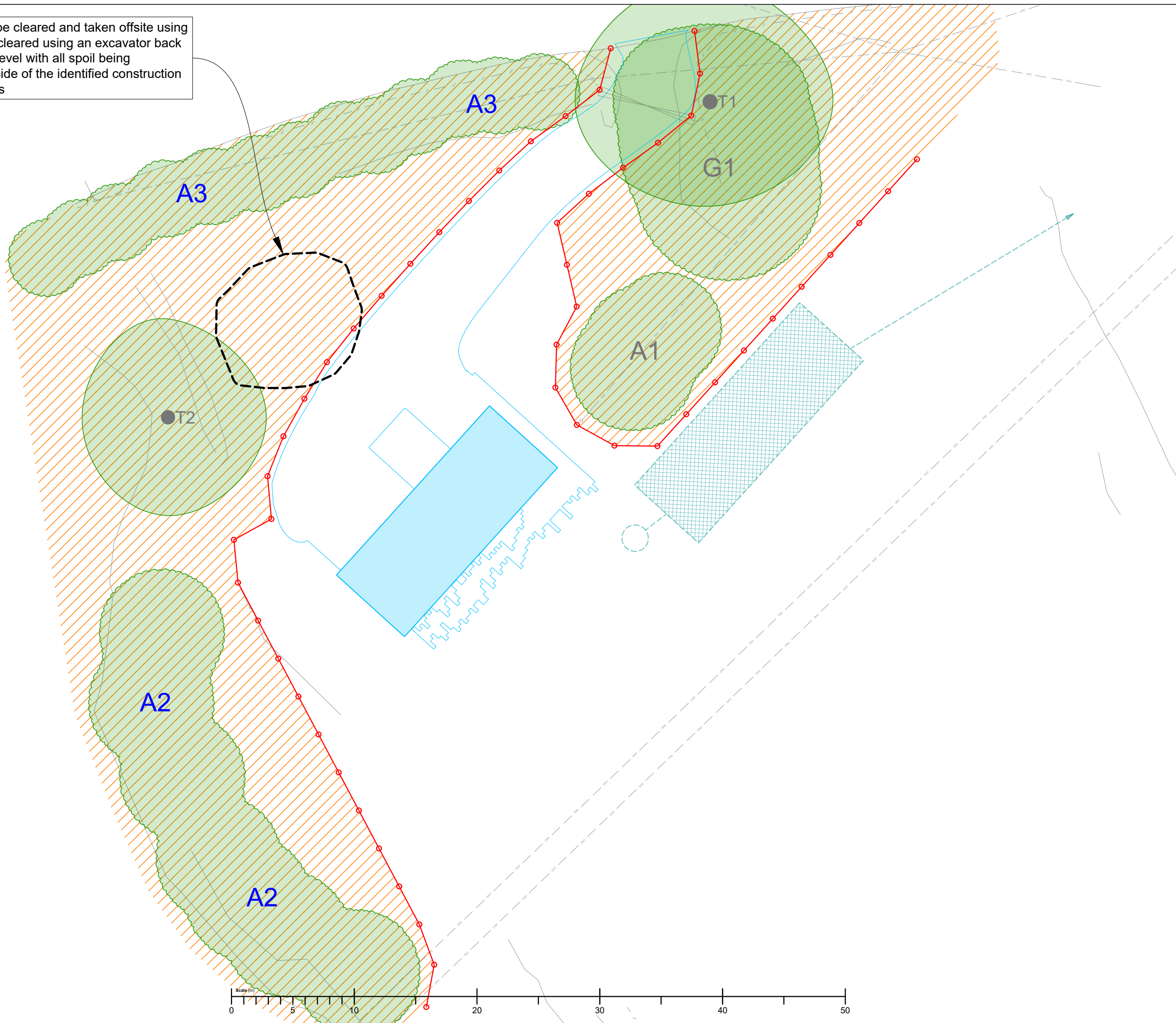
Location:  
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1:300	A3	TH

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Soil mound to be cleared and taken offsite using a grab lorry or cleared using an excavator back to original soil level with all spoil being distributed outside of the identified construction exclusion zones



### Key

- T<sub>n</sub> Category A tree
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- Construction exclusion zone
- Braced Heras fencing (see AGS101)

N

- ### Notes
- Protective fencing must not be breached or dismantled at any point during the construction programme without the written consent of the local planning authority.
  - Failure to fully comply with this Tree Protection Plan may result in the local planning authority pursuing enforcement action.
  - It is the Site Manager's responsibility to ensure that all site personnel, plant and materials remain outside of the Construction Exclusion Zones and protective fencing at all times.

Drawing Title:  
**Tree Protection Plan**

Location:  
**Bridge End  
Newton Poppleford**

Date:	Project Reference:	Revision:
20.02.2024	TH/B803/0923	1.1
Scale:	Paper Size:	Drawn By:
1:300	A3	TH

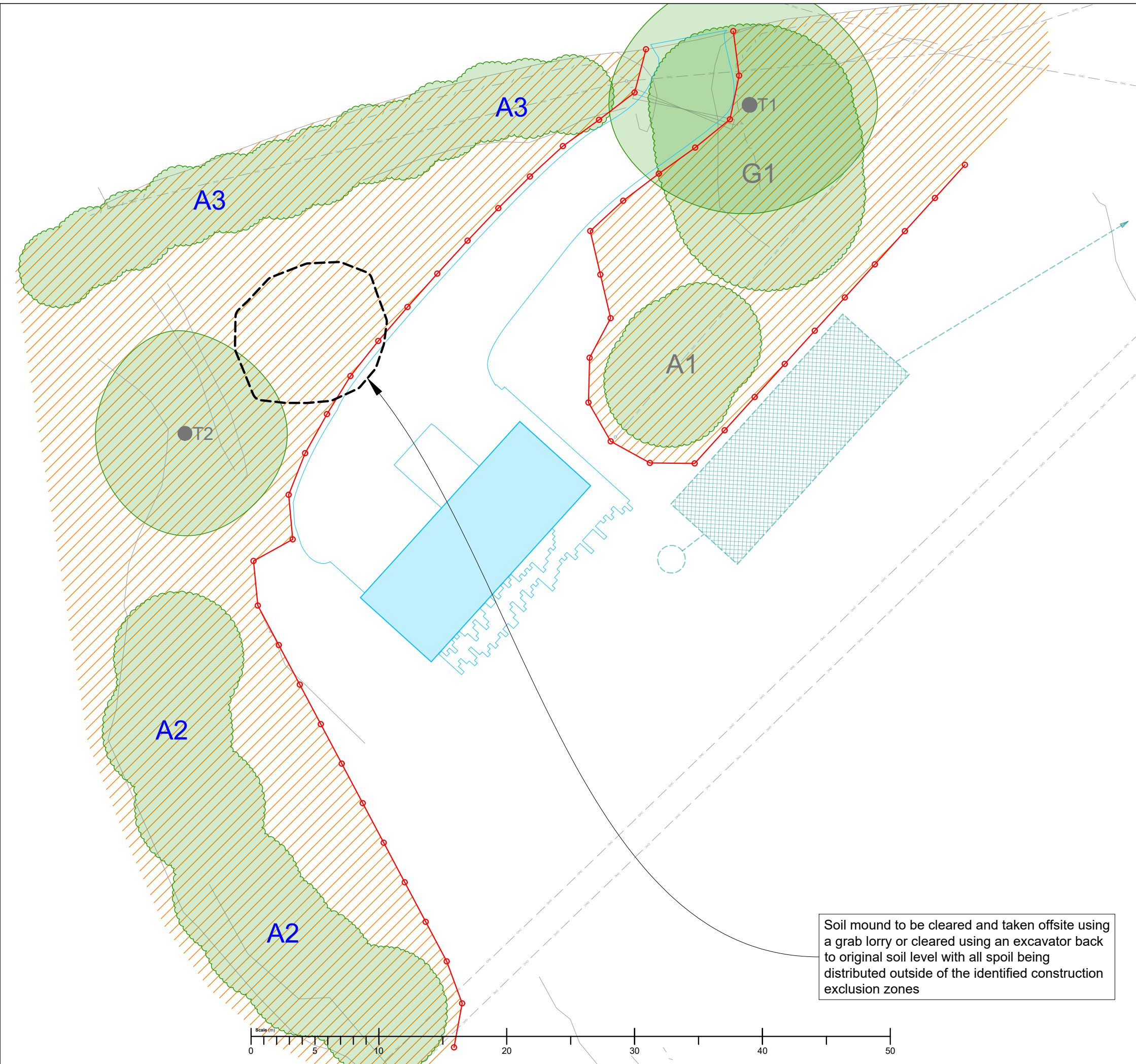
**Advanced Arboriculture**  
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Note: The original of this drawing was produced in colour - a monochrome copy should not be relied upon. All drawings © Advanced Arboriculture.

**Arboricultural Method Statement**

All works to be undertaken sequentially in accordance with the following schedule:

1. Tree Protection Plan and Arboricultural Method Statement to be reviewed and signed off by the Site Manager and Arboricultural Supervisor (see below). Any amendments to be made and a copy of all revised documents sent to the local planning authority as necessary. Signed off copy to be held on file in the site office for the duration of construction works.
2. All site personnel, including sub-contractors, to be advised of tree protection requirements during induction (see Arboricultural Induction Sheet).
3. All tree works to be undertaken in accordance with British Standard 3998:2010.
4. Soil mound to the east of Willow T2 to be cleared with care.
5. Protective fencing to be installed as per the specification detailed within Arboricultural Guidance Sheet AGS101.
6. Arboricultural supervisor to attend site to inspect tree protection measures prior to the commencement of any construction activities (may be done via Skype/Facetime where practicable).
7. Construction to commence in accordance with approved site layout.
8. Advanced Arboriculture to undertake inspections at key trigger points (see Arboricultural Supervision Inspection Record) along with ad hoc inspections at the request of the site manager or client. All inspections to be logged on the Arboricultural Supervision Inspection Record and any issues to be raised within an Exception Report to the client.
9. Any accidental damage to trees to be reported immediately to Advanced Arboriculture with any necessary remedial works to be agreed with the local planning authority.
10. Fencing to be dismantled only on completion of all construction works and to allow for soft landscaping.
11. Signed copy of this drawing and Arboricultural Supervision Inspection Record to be held on project files on completion of all construction works.



Soil mound to be cleared and taken offsite using a grab lorry or cleared using an excavator back to original soil level with all spoil being distributed outside of the identified construction exclusion zones

**Notes**

- The arboricultural supervision requirements are detailed within the attached supervision record but may be further modified by a planning condition.
- The arboricultural supervision schedule must be incorporated into the project programme, ensuring that the arboricultural supervisor is contacted with a minimum of five working days before the identified key trigger points.
- Failure to fully comply with this Arboricultural Method Statement and supervision programme may result in the local planning authority refusing to sign off any tree-related planning conditions, or pursuing enforcement action.
- It is the client's responsibility to appoint an arboricultural supervisor prior to the commencement of the project on site. Advanced Arboriculture Ltd cannot be held liable for any failure to follow this schedule or for non-compliance with the prescribed tree protection measures and method statements.
- The client may appoint any suitably qualified and experienced arboricultural consultant to fulfil the role of arboricultural supervisor, but Advanced Arboriculture Ltd are able to take on this role on request.

**Document Review**

The Arboricultural Method Statement must be reviewed and signed off by the Site Manager and Arboricultural Supervisor prior to the commencement of works to ensure that it is fit for purpose.

Site Manager: \_\_\_\_\_  
 Arb Supervisor: \_\_\_\_\_  
 Date: \_\_\_\_\_

Document reviewed?	<input type="checkbox"/>	<input type="checkbox"/>
Issues raised?	<input type="checkbox"/>	<input type="checkbox"/>
Revised document required?	<input type="checkbox"/>	<input type="checkbox"/>

**Arboricultural Method Statement Plan**

Location:  
**Bridge End**  
**Newton Poppleford**

Date:	Project Reference:	Revision:
20.02.2024	TH/B803/0923	1.1
Scale:	Paper Size:	Drawn By:
1:300	A3	TH

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# Tree Protection Information



## Trees on this site are legally protected by the Local Planning Authority.

- Planning conditions, Tree Preservation Orders and Conservation Area regulations mean that damage to trees may result in enforcement action and all site works being stopped.



## Protective fencing must not be moved or dismantled under any circumstances.

- The protective fencing for the trees is there to protect the trees and their rooting systems.
- The fencing must not be moved for any reason unless it has been approved by the Site Manager and the Arboricultural Supervisor.



## The Construction Exclusion Zones are not to be used for any reason.

- These areas are there for a reason: to protect the tree above and below the ground.
- Storage of materials, the mixing of concrete, the fueling of machines, the parking of vehicles, etc. all cause damage to a tree's roots so use a designated zone for these activities.



## Trees are not to be used for any purpose - they are there for the future.

- Trees are not to be used as a place to screw signs onto, or as cable supports.
- Fires can do massive damage to trees, both above and below ground, and even some distance away. If a fire is permitted on site, it must be at least ten metres from the nearest branch of any retained tree.



## Extra care will always be required when craning or using excavators.

- It's too easy to accidentally swing an excavator boom, HIAB, crane jib or load into the branches or trunk of a tree so extra care is always required.
- Plan all movements carefully, make sure the operator has good visibility and, where possible, use an experienced banksman.



## What to do if it all goes wrong?

- Accidents can happen so if a tree is damaged, even only slightly, this must be reported to the Site Manager immediately.
- If the Site Manager is not available then contact Advanced Arboriculture immediately to seek further advice.

All site staff including archaeologists, consultants, contractors, sub-contractors, arborists and landscapers must sign below to confirm that they have read and understood this information

Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
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Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____

### Notes for Site Manager

- **Damage to trees during construction can result in enforcement action, including the local authority issuing Stop Notices or pursuing prosecution for damage to trees covered by a Tree Preservation Order.**
- It is essential that all staff working on site, including contractors, sub-contractors and delivery drivers, are made aware of the tree protection measures in operation on this site.
- It may be necessary to read the sheet out to personnel with limited literacy or language skills.
- Every member of staff must sign this sheet to confirm that they have fully understood the tree protection measures. The sheet must remain on site with the Tree Protection Plan and Arboricultural Method Statement to allow for inspection at any reasonable time by the Arboricultural Supervisor or the Local Planning Authority Arboricultural Officer.
- In the event of any queries, concerns or amendments, please contact Advanced Arboriculture at the earliest opportunity.
- **It is essential that the project has a designated Arboricultural Supervisor. If this role has not been assigned then please contact the client or Project Manager to request authorisation to appoint an Arboricultural Supervisor.**
- **It is the Site Manager's responsibility to ensure that all staff are fully inducted, that all tree protection measures are installed and maintained correctly, and that the scheduling detailed within the Arboricultural Method Statement is followed.**

### Arboricultural Supervisor

(unless otherwise instructed)

**Name:** Tom Hurley  
**Company:** Advanced Arboriculture  
**Tel:** 01395 239002  
**Mobile:** 07967 384910  
**Email:** th@advancedarb.com

Drawing Title:

**Arboricultural Site Induction Sheet**

Location:

**Bridge End  
 Newton Poppleford**

Date:	Project Reference:	Revision:
20.02.2024	TH/B803/0923	1.1
Scale:	Paper Size:	Drawn By:
n/a	A3	TH

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# Arboricultural Supervision Inspection Record

## Notes for Site Manager

- Where arboricultural supervision is included as a condition of a planning consent, there is a legal obligation to ensure that it is complied with in full.
- It is the site manager's responsibility to ensure that the arboricultural supervisor is appointed and inspections commissioned as per the planning consent. Failure to comply with the prescribed arboricultural supervision requirements remains the responsibility of the client.
- Reasons for requesting additional ad hoc inspections may include accidental damage to trees, an amendment to proposals, or to clarify a detail on the Tree Protection Plan or Arboricultural Method Statement. The Arboricultural Supervisor shall make every effort to attend site within 48 hours of receiving a request from the Site Manager.
- Inspections at key trigger points may coincide with scheduled inspections
- Local planning authority officers may ask to see the completed Arboricultural Supervision Inspection Record at any reasonable time.
- Any issues raised during an inspection may require the Arboricultural Supervisor to prepare an Exception Report detailing remedial works or actions; these must also be kept on file in the site office.
- On completion of all construction works, a copy of this completed document must be sent to the local planning authority by the Arboricultural Supervisor to discharge the relevant conditions of the planning consent.

### Inspection Trigger Point Stages

The following project stages will trigger the need for an inspection by the arboricultural supervisor (tick all that apply):

- A Tree Protection Statement review
- B Tree protection inspection
- C Pre-site-enabling inspection\*
- D Pre-demolition inspection
- E Pre-groundworks inspection
- F Pre-construction inspection
- G Mid-construction inspection\*\*
- H Construction completion inspection
- I Pre-landscaping inspection
- J Project completion inspection
- S Scheduled inspections
- X Ad-hoc inspection (client request)
- Y Ad-hoc inspection (LPA request)
- Z Unannounced inspection

#### Note:

The number of inspections will be determined during the preparation of the Tree Protection Statement based on anticipated risk of harm to trees. These trigger points may be modified by the local planning authority and included as a condition of any planning consent.

- \* Site enabling includes construction of access routes, site compound setup, materials storage setup, etc.
- \*\* Timing of mid-construction to be defined at Tree Protection Statement Review stage

### Tree Protection Statement Review

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Consultees: Client   
Architect   
Project Engineer   
Project Manager   
Site Manager   
Demolition Contractor   
Groundworks Contractor   
Landscape Contractor   
LPA Tree Officer

Others: \_\_\_\_\_  
(Please specify)

Comments: \_\_\_\_\_

Planning conditions checked? Yes  No

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Inspection Record

Stage (see trigger points): \_\_\_\_\_

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Project Completion Inspection (Stage H)

Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Meeting: On-site   
On-line

Comments: \_\_\_\_\_

All concerns addressed/resolved? Yes  No

Tree issues? Yes  No

Fencing/ground protection issues? Yes  No

Document revision required? Yes  No

### Arboricultural Supervisor

(unless otherwise instructed)

**Name:** Tom Hurley  
**Company:** Advanced Arboriculture  
**Tel:** 01395 239002  
**Mobile:** 07967 384910  
**Email:** th@advancedarb.com

### Arboricultural Supervision Log

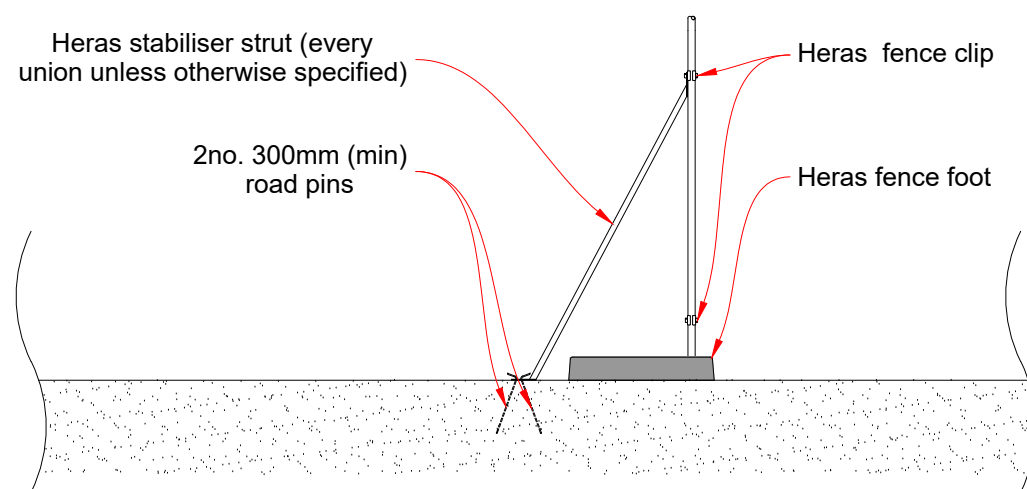
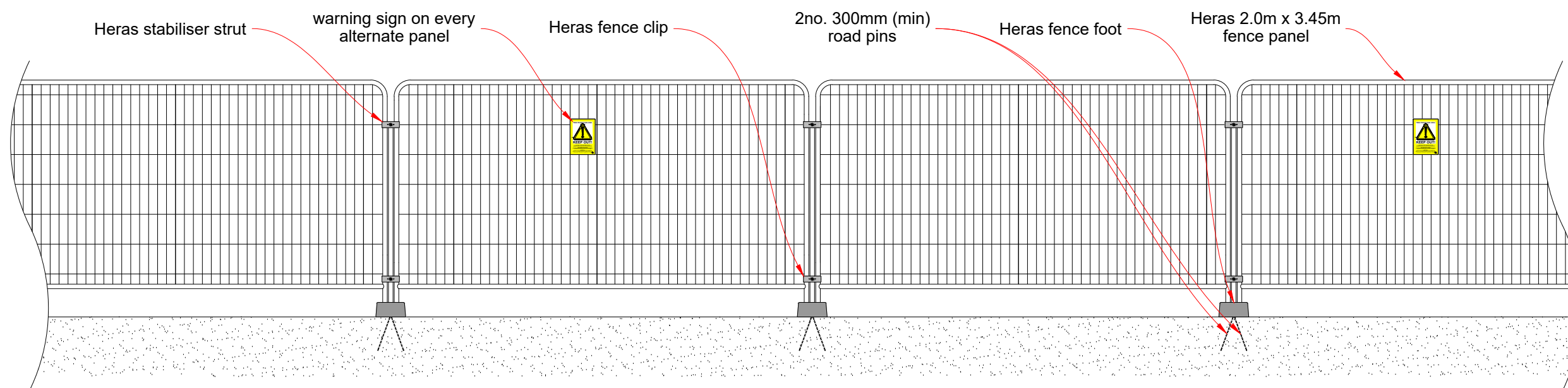
Location: **Bridge End  
Newton Poppleford**

Date: 20.02.2024 Project Reference: TH/B803/0923 Revision: 1.1  
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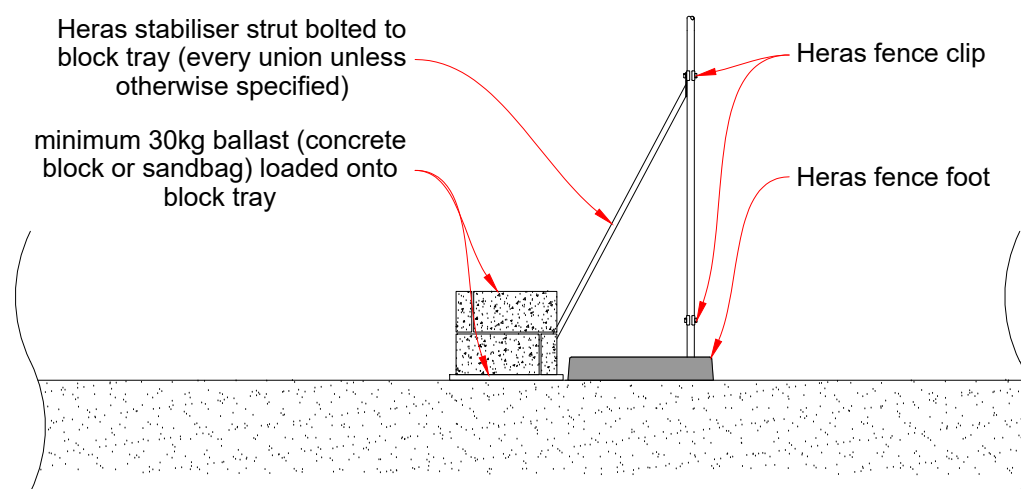
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**Notes**

- These specifications are for guidance only.
- This fencing specification is based on the specification detailed within British Standard 5837:2012 Figure 3 but adds an additional detail for where the use of road pins is not possible.
- Stabiliser struts to be attached at every panel union unless specified otherwise.
- A check for underground services must be completed before driving any road pins into the ground.
- Where it is not possible to use road pins due to hard surfacing or the presence of underground services, a Heras block tray may be used with a minimum of 10kg of ballast (concrete blocks, metal weights or sandbags).
- This information must accompany all tender documents to enable contractors to include tree protection measures in their costings.
- Local planning authority consent for these specifications cannot be assumed and must be sought prior to commencement of any construction works.



**Back Bracing Cross Section (for use where road pins may be driven into the ground)**



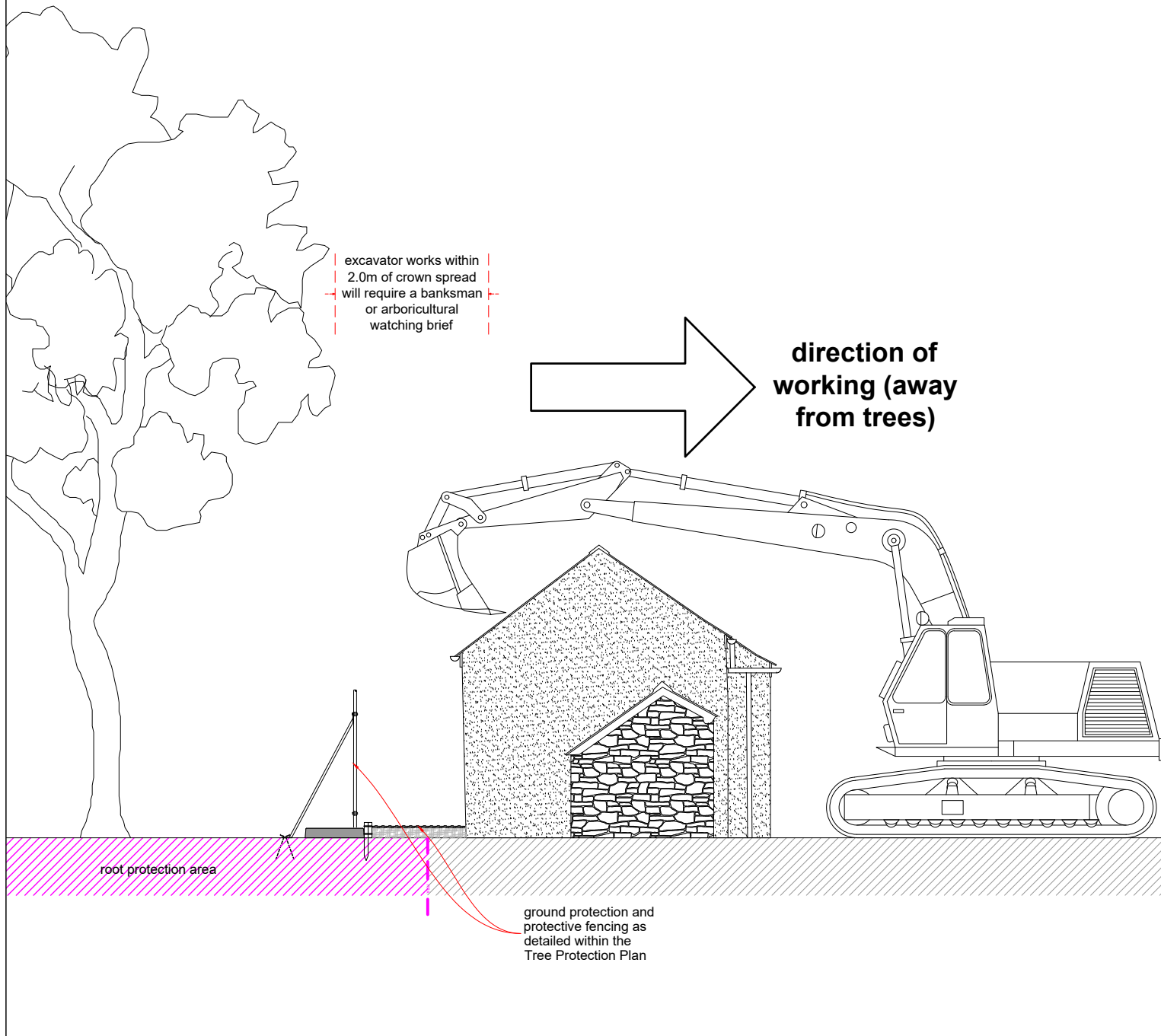
**Back Bracing Cross Section (for use where road pins cannot be driven into the ground)**

Drawing Title:  
**Braced Heras Fencing**

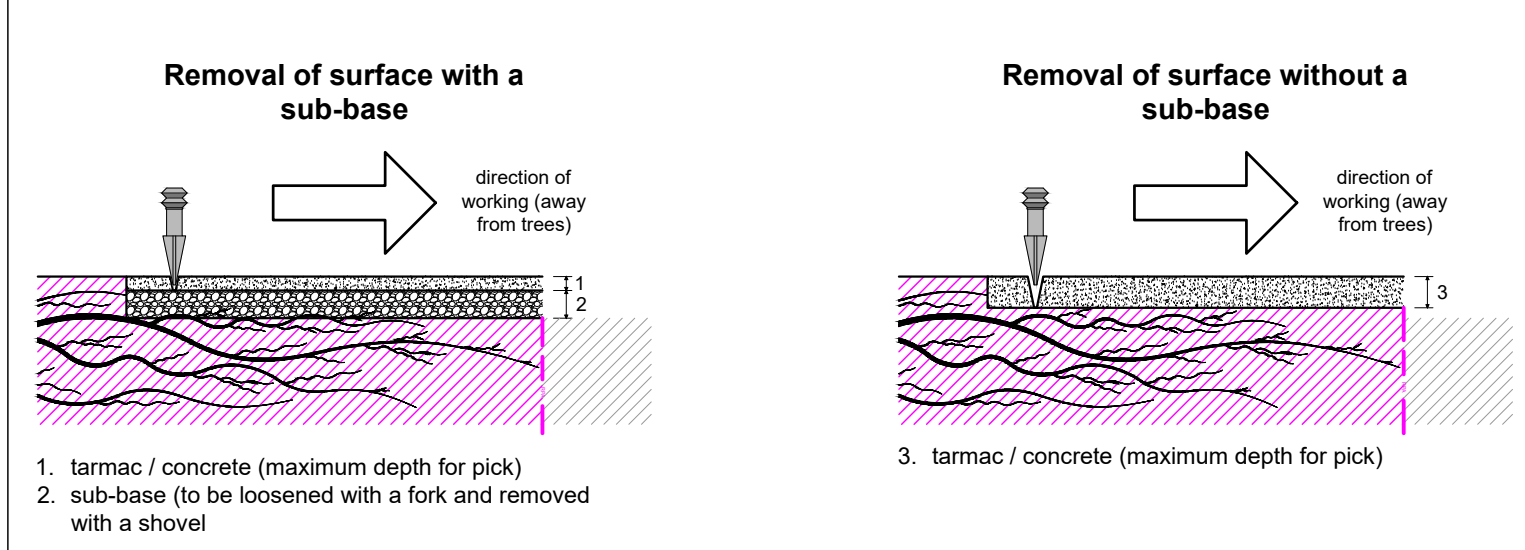
Date:	Drawing Number:	Revision:
01.02.2021	AGS101	1.0
Scale:	Paper Size:	Drawn By:
1:40	A3	TH

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# Demolition Zone Working Directions



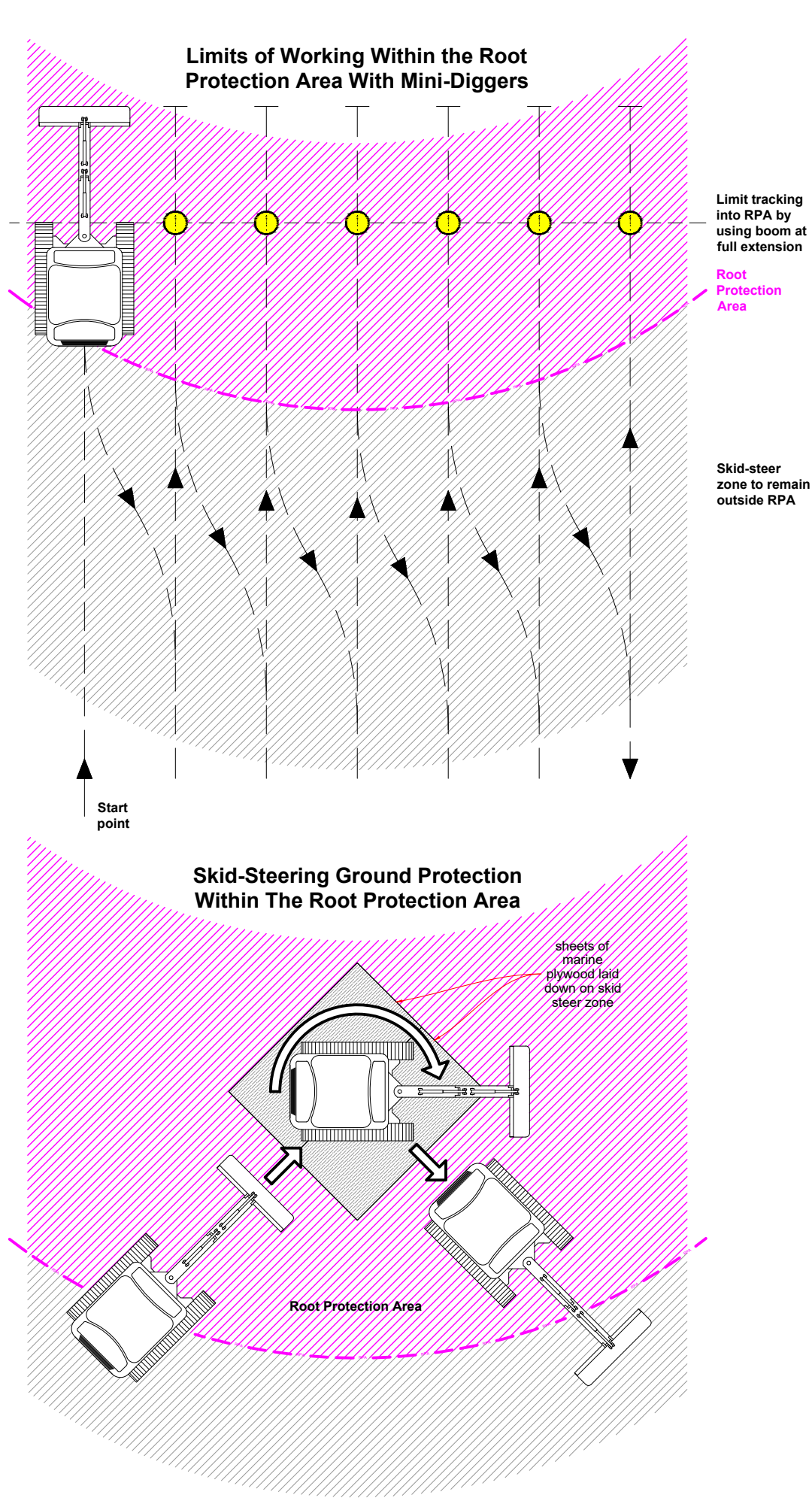
# Removal of Hard Surfaces Near Trees



1. tarmac / concrete (maximum depth for pick)
2. sub-base (to be loosened with a fork and removed with a shovel)

3. tarmac / concrete (maximum depth for pick)

# Mechanical Plant Operations Near Trees



- Notes**
- These specifications are for guidance only and must be reviewed by the Project Manager, Demolition Contractor and Arboricultural Supervisor prior to commencement of any works on site.
  - This information must accompany all tender documents to enable contractors to include for specific working requirements in their costings.
  - Local planning authority consent for these specifications cannot be assumed and may need to be sought prior to commencement of any demolition works.

- Site Organisation**
1. All works to be undertaken from outside of the root protection areas.
  2. Tree protection measures to be installed prior to mobilisation to site by demolition contractors.
  3. Any excavator or crane works within 2.0m of the crown spread of retained trees will require an experienced banksman or arboricultural watching brief.
  4. Structures to be demolished in opposite direction from retained trees.
  5. All arisings to be stored outside of the root protection areas in a location that allows rubble, etc. to be collected without unnecessary HGV movements across any root protection areas.
  6. Any crushed rubble piles to be located so that fine particles cannot be carried towards root protection areas by rainfall.
  7. All hard surfacing within root protection areas to be removed as detailed, working away from retained trees.

- Arboricultural Method Statement**
1. All permitted tree works, including access facilitation pruning or felling, to be undertaken as per permitted tree works specification and in accordance with BS3998:2010 and any relevant ecological legislation.
  2. Ground protection measures (as detailed within the Tree Protection Plan) which may include protective fencing, ground protection, signage, or other elements to be installed prior to demolition contractor mobilising to site.
  3. Layout of site for demolition to be set out as agreed with Arboricultural Supervisor
  4. Schedule of demolition to be agreed with Arboricultural Supervisor to allow for pre-booking of arboricultural watching brief if required.
  5. Demolition works to commence as agreed.
  6. Arboricultural Supervisor to undertake ad hoc inspections at the request of the site manager or client. All inspections to be logged on the Arboricultural Supervision Inspection Record and any issues to be raised within an Exception Report to the client.
  7. Any accidental damage to trees to be reported immediately to Advanced Arboriculture with any necessary remedial works to be agreed with the local planning authority.

Drawing Title:  
**Demolition of Structures and Surfaces Near Trees**

Date:	Drawing Number:	Revision:
13.10.2021	AGS408	1.0
Scale:	Paper Size:	Drawn By:
n/a	A3	TH

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# TREE PROTECTION AREA



# KEEP OUT

(TOWN AND COUNTRY PLANNING ACT 1990)

TREES ENCLOSED BY THIS FENCE ARE LEGALLY PROTECTED BY PLANNING CONDITIONS AND MAY BE THE SUBJECT OF A TREE PRESERVATION ORDER.

ANY INCURSION INTO THE PROTECTED AREA MUST HAVE THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.

IN CASE OF ANY DAMAGE TO PROTECTIVE FENCING OR TREES, CALL ADVANCED ARBORICULTURE ON 01395 239002.

Advanced Arboriculture • [www.advancedarb.com](http://www.advancedarb.com) • [office@advancedarb.com](mailto:office@advancedarb.com) • 01395 239002

## Notes

This poster may be printed out and laminated or requested electronically as an A4 PDF or ready printed on laminated board.

### Printing Instructions (A4 printing only):

- For the best results, this document should be printed using a colour laser printer and laminated.
- Open this file in Adobe Acrobat Reader or Acrobat Pro.
- Select *File > Print*.
- Choose the printer and make sure it is set to print on A4 paper.
- Under *Size Options*, choose "Actual size".
- Under *Orientation*, choose "Portrait".
- Select *Print*.

### Electronic Copies:

- This document may be downloaded directly from the Advanced Arboriculture website using the following links:

A4: <http://www.advancedarb.com/download/A4.pdf>

A3: <http://www.advancedarb.com/download/A3.pdf>

These documents may only be used for projects where Advanced Arboriculture have been appointed as the arboricultural supervisors.

All documents are © Advanced Arboriculture.

## Arboricultural Supervisor

(unless otherwise instructed)

**Name:** Tom Hurley  
**Company:** Advanced Arboriculture  
**Tel:** 01395 239002  
**Mobile:** 07967 384910  
**Email:** [th@advancedarb.com](mailto:th@advancedarb.com)

### Drawing Title:

## Protective Fencing Poster

Date:	Drawing Number:	Revision:
01.02.2021	AGS801	1.0
Scale:	Paper Size:	Drawn By:
n/a	A3	TH

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# CAUTION



## PROTECTED TREES ON SITE

- DO NOT ENTER TREE PROTECTION FENCING
- ALWAYS USE DESIGNATED STORAGE, MIXING AND PARKING AREAS
- TAKE ADDITIONAL CARE WHEN DRIVING HIGH SIDED VEHICLES
- ALWAYS USE A BANKSMAN WHEN USING HIABS, CRANES AND EXCAVATORS NEAR TREES

**REPORT ANY TREE DAMAGE TO SITE MANAGER IMMEDIATELY**

### Notes

**The poster must be put up on the site office board and in the workforce welfare facilities at the commencement of construction and must remain clearly visible for the duration of the project.**

The Site Manager must enter their name and mobile telephone number in the box on the poster. In the event of any accidental damage to any trees (including rooting damage), the Site Manager must contact the Arboricultural Supervisor immediately to seek further advice.

This poster may be printed out and laminated or requested electronically as an A4 PDF or ready printed on laminated board.

#### Printing Instructions (A4 printing only):

- For the best results, this document should be printed using a colour laser printer and laminated.
- Open this file in Adobe Acrobat Reader or Acrobat Pro.
- Select *File > Print*.
- Choose the printer and make sure it is set to print on A4 paper.
- Under *Size Options*, choose "Actual size".
- Under *Orientation*, choose "Portrait".
- Select *Print*.

#### Electronic Copies:

- This document may be downloaded directly from the Advanced Arboriculture website using the following links:

A4: <http://www.advancedarb.com/download/siteposterA4.pdf>  
A3: <http://www.advancedarb.com/download/siteposterA3.pdf>

These documents may only be used for projects where Advanced Arboriculture have been appointed as the arboricultural supervisors.

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### Arboricultural Supervisor

(unless otherwise instructed)

**Name:** Tom Hurley  
**Company:** Advanced Arboriculture  
**Tel:** 01395 239002  
**Mobile:** 07967 384910  
**Email:** [th@advancedarb.com](mailto:th@advancedarb.com)

#### Drawing Title:

**Site Office Tree Poster**

<b>Date:</b>	<b>Drawing Number:</b>	<b>Revision:</b>
01.02.2021	AGS802	1.0
<b>Scale:</b>	<b>Paper Size:</b>	<b>Drawn By:</b>
n/a	A3	TH

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