

# **St Minver Holiday Park Wadebridge**

## **Tree Protection Plan and Arboricultural Method Statement**

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**13th December 2021**

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The logo for Advanced Arboriculture, featuring a large, stylized letter 'A' that incorporates a circular element, possibly representing a tree or a globe, with a smaller 'A' nested within it.

# Tree Protection Statement

## Introduction

### Heads of Terms

This document provides information for the benefit of the local planning authority and the project team, however, the specific tree protection details are contained within the attached Tree Protection Plan, Arboricultural Method Statement and Arboricultural Guidance Sheets.

The document 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 after the relevant arboricultural conditions have been cleared. It is the responsibility of the project manager to draw any changes in the project scope to our attention at the earliest opportunity.

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

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

### Tree Protection Overview

The included 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 client or their delegated 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 client/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.

## Tree Protection Measures Overview

### Arboricultural Supervision

An ad-hoc arboricultural inspection programme is shown on the Arboricultural Method Statement Plans. Inspections must be requested by the client, 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 99 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.

A total of 38 metres of high visibility fencing (see Arboricultural Guidance Sheet AGS105) is also shown on the Tree Protection Plan. The purpose of this is to act as a visual demarcation of the construction exclusion zones where there is considered to be a low risk of damage to retained trees from plant, materials or personnel.

All fencing must be erected prior to the 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.

### No-dig Surfacing

No-dig surfacing is shown on the Tree Protection Plan where an access route crosses root protection areas. This must be installed at the earliest opportunity, utilising a temporary wear course as required for the duration of the construction programme, replacing this with a final permanent wear course on completion of all construction works.

A suggested specification detail is shown within Arboricultural Guidance Sheet AGS301 though this will need to be reviewed and amended as necessary by a suitably qualified engineer. During the review of this document by the project manager and/or site manager, the site levels will need to be reviewed, noting that no-dig surfacing can typically add 250-300mm to existing ground levels, and surrounding surfaces may therefore need to be amended to match.

### 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.

### 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.

Engineering drawings showing the proposed service routes should be forwarded to Advanced Arboriculture Ltd for review prior to the commencement of any ground works or services installation. Advanced Arboriculture is 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. We are able to provide an independent verification of the quality of new trees prior to planting on request.

### Tree Works

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.

## Attachments

- Arboricultural Data Tables
- Tree Location Plan
- Tree Protection Plan
- Arb Method Statement Plan
- AGS101 Braced Heras Fencing
- AGS105 High-Visibility Barrier Fencing
- AGS301 No-Dig Specification
- AGS408 Demolition of Structures and Surfaces Near Trees
- AGS801 Protective Fencing Poster
- AGS802 Site Office Tree Poster

Document Title:

## Background Information

Location:

### St Minver Holiday Park Wadebridge

Date:	Project Reference:	Revision:
13.12.2021	JG/B152/1221	1.0
Scale:	Paper Size:	Drawn By:
n/a	A3	JG

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# Arboricultural Data Tables

## Notes

- The categorisation of trees in accordance with British Standard 5837:2012 is a subjective exercise and may be subject to variation when compared with other professionals' evaluations.
- Trees are dynamic structures and advice should be taken on validity two years after the survey was undertaken.
- The survey data may not be considered valid after more than three years.
- The survey has been prepared using all reasonable skill and care.
- Opinions are provided in good faith.

## Data Table Fields and Abbreviations

Abbreviations used in the survey are as follows:

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

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

**Category and definition**      **Criteria (including subcategories where appropriate)**

### Trees unsuitable for retention

#### Category U

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

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)

Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline

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

*Note: Category U trees can have existing or potential conservation value which it may be desirable to preserve*

#### 1. Mainly arboricultural qualities

#### 2. Mainly landscape qualities

#### 3. Mainly cultural values, including conservation

### Trees to be considered for retention

#### Category A

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)

#### Category 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)

#### Category C

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

Document Title:

**Arboricultural Data Tables**

Location:

**St Minver Holiday Park Wadebridge**

Date:	Project Reference:	Revision:
13.12.2021	JG/B152/1221	1.0
Scale:	Paper Size:	Drawn By:
n/a	A3	JG

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Data Type: Individual Trees	Site Reference: JG/B152/1221	Location: St Minver Holiday Park	Inspection Date: 9th December 2021	Lead Surveyor: Joel Gray
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Tree No.	Species	Tree Height	Crown Spread	Stem Dia (mm)	RPA Radius	RPA Area	LB Ht / Dir	Cr Ht	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T1	Sycamore	11.0	N: 7.0 E: 7.0 S: 6.0 W: 6.5	570 m/s	6.90	150	1.5/E	2.0	MA	10-20	G/P	<ul style="list-style-type: none"> <li>Multi-stemmed specimen with inherently weak base</li> <li>Limited rooting anticipated south of the adjacent wall</li> </ul>	• No works required	C1
T2	Sycamore	11.0	N: 4.5 E: 6.5 S: 4.0 W: 4.0	450	5.40	92	3.5/N	1.5	MA	>40	G/G	<ul style="list-style-type: none"> <li>Tree forks at ~4.0m</li> <li>Potential rooting under road, however no evidence of damage is present in the surfacing</li> </ul>	• No works required	B2
T3	Sycamore	13.0	N: 8.0 E: 8.5 S: 7.5 W: 5.0	850 m/s	10.20	327	1.5/S	2.0	M	>40	G/F	<ul style="list-style-type: none"> <li>Large open-crowned multi-stemmed specimen</li> <li>Potential rooting under road, however no evidence of damage is present in the surfacing</li> </ul>	• No works required	B2
T4	Lime	12.0	N: 6.5 E: 5.0 S: 5.0 W: 5.0	670	8.10	206	2.0/W	2.0	M	>40	G/G	<ul style="list-style-type: none"> <li>Extensive epicormic growth at base has been trimmed</li> <li>Historically reduced specimen</li> <li>Multiple advanced suckers present</li> </ul>	• No works required	B2
T5	Swedish Whitebeam	7.0	N: 2.5 E: 2.5 S: 2.0 W: 2.0	180	2.10	14	2.0/N	1.5	Y	10-20	f/f	<ul style="list-style-type: none"> <li>Young ornamental specimen</li> </ul>	• No works required	C1
T6	Alder	12.0	N: 4.0 E: 3.5 S: 3.5 W: 3.5	390	4.80	72	2.0/N	1.5	Y	>40	G/G	<ul style="list-style-type: none"> <li>Young ornamental specimen</li> <li>Tree leans slightly</li> </ul>	• No works required	B1
T7	Swedish Whitebeam	6.0	N: 2.0 E: 2.5 S: 2.0 W: 2.0	150	1.80	10	2.0/E	2.0	Y	10-20	f/f	<ul style="list-style-type: none"> <li>Young ornamental specimen</li> </ul>	• No works required	C1
T8	Swedish Whitebeam	6.0	N: 2.0 E: 2.0 S: 2.0 W: 1.0	130	1.50	7	2.0/S	2.0	Y	20-40	G/f	<ul style="list-style-type: none"> <li>Young ornamental specimen</li> </ul>	• No works required	C1
T9	Alder	14.0	N: 3.5 E: 4.5 S: 3.0 W: 2.0	370	4.50	64	3.0/S	2.0	Y	>40	G/G	<ul style="list-style-type: none"> <li>Young ornamental specimen</li> <li>Tree leans slightly</li> </ul>	• No works required	B1

Data Type: Individual Trees	Site Reference: JG/B152/1221	Location: St Minver Holiday Park	Inspection Date: 9th December 2021	Lead Surveyor: Joel Gray
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Tree No.	Species	Tree Height	Crown Spread	Stem Dia (mm)	RPA Radius	RPA Area	LB Ht / Dir	Cr Ht	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T10	Ash	13.0	N: 4.5 E: 6.0 S: 5.0 W: 4.0	560	6.60	137	1.5/S	1.0	MA	>40	F/F	<ul style="list-style-type: none"> <li>Extensive cankering on main scaffold limbs</li> <li>Ivy present</li> <li>Reduced outer crown density evident</li> <li>Inner stress growth induced by ADD</li> <li>Deadwood present</li> </ul>	<ul style="list-style-type: none"> <li>Dismantle to near ground level to facilitate construction</li> </ul>	C1
T11	Sycamore	11.0	N: 4.5 E: 5.5 S: 4.0 W: 3.0	320	3.90	48	3.0/E	2.0	MA	>40	F/F	<ul style="list-style-type: none"> <li>Hedgerow specimen</li> <li>Tree probably naturally regenerated</li> <li>Ivy present</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> </ul>	B2
T12	Sycamore	11.0	N: 4.0 E: 5.0 S: 6.0 W: 5.0	350 m/s	4.20	55	4.5/E	3.0	MA	>40	F/F	<ul style="list-style-type: none"> <li>Hedgerow specimen</li> <li>Tree probably naturally regenerated</li> <li>Ivy present</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> </ul>	B2
T13	Elm	11.0	N: 3.0 E: 8.0 S: 9.5 W: 1.0	400 m/s	n/a	n/a	2.0/S	2.0	MA	20-40	G/P	<ul style="list-style-type: none"> <li>Leaning specimen due to the proximity of the Sycamore stems within area A3</li> <li>Partner tree to the north has recently failed at the base</li> <li>Ivy present</li> <li>Evidence of crown separation from neighbouring Sycamore</li> </ul>	<ul style="list-style-type: none"> <li>Fell irrespective of development</li> </ul>	U
T14	Sycamore	17.0	N: 9.0 E: 7.5 S: 9.0 W: 9.0	960 m/s	11.40	408	2.0/N	2.0	M	>40	G/F	<ul style="list-style-type: none"> <li>Large specimen growing on southern bank of stream</li> <li>Tree forks into four stems at ~1.0m</li> <li>Ivy present</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> </ul>	B2
T15	Copper Beech	10.0	N: 4.0 E: 4.0 S: 5.0 W: 4.0	390	4.80	72	1.5/E	1.0	Y	>40	G/F	<ul style="list-style-type: none"> <li>Tree has experienced significant and repeated strimmer damage in the past</li> <li>Poor historic pruning present</li> </ul>	<ul style="list-style-type: none"> <li>No works required</li> </ul>	B2
T16	Horse Chestnut	13.0	N: 5.5 E: 7.5 S: 5.5 W: 7.0	750	9.00	254	2.5/W	2.5	M	>40	F/F	<ul style="list-style-type: none"> <li>Tree forks at ~2.5m</li> <li>Evidence of passing vehicle damage on stem overhanging road</li> <li>Ivy present</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> </ul>	B2

Data Type: Individual Trees      Site Reference: JG/B152/1221      Location: St Minver Holiday Park      Inspection Date: 9th December 2021      Lead Surveyor: Joel Gray

Tree No.	Species	Tree Height	Crown Spread	Stem Dia (mm)	RPA Radius	RPA Area	LB Ht / Dir	Cr Ht	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T17	Sycamore	15.0	N: 6.0 E: 8.0 S: 3.5 W: 6.0	690 m/s	8.40	222	1.0/N	1.5	M	20-40	F/F	<ul style="list-style-type: none"> <li>Multi-stemmed specimen located on bank</li> <li>Ivy present</li> <li>Deadwood present</li> <li>Epicormic growth at the base of the tree</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> </ul>	B2
T18	Sycamore	11.0	N: 4.0 E: 2.0 S: 4.5 W: 5.0	410 m/s	4.80	72	2.0/W	2.0	MA	>40	F/F	<ul style="list-style-type: none"> <li>Tree forks at ~1.2m</li> <li>One sided specimen due to the proximity of area A5 adjacent</li> </ul>	<ul style="list-style-type: none"> <li>No works required</li> </ul>	B2

Data Type: Areas	Site Reference: JG/B152/1221	Location: St Minver Holiday Park	Inspection Date: 9th December 2021	Lead Surveyor: Joel Gray
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Ref No.	Species	Tree Height	Crown Spread	Stem Dia (mm)	RPA Radius	RPA Area	LB Ht	Cr Ht	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
A1	• Elm	<12	N: <4 E: <4 S: <4 W: <4	<300	<3.60	<41	>0	>0	MA	10-20	F/F	<ul style="list-style-type: none"> <li>Line of boundary Elms</li> <li>Sewer runs ~3.0m to the east of the hedgeline</li> <li>Occasional dead stems present probably due to Dutch Elm Disease</li> </ul>	<ul style="list-style-type: none"> <li>Consider removal of existing stems and replacement with a native hedgerow mix</li> </ul>	C1
A2	• Willow • Hawthorn	<16	N: <5 E: <8 S: <5 W: <4	<450	<5.40	<92	>0	>0	MA	10-20	F/F	<ul style="list-style-type: none"> <li>Four middle-aged Willow stems with a primarily Hawthorn understorey</li> <li>The Willow stems lean considerably</li> <li>Occasional Ivy present</li> <li>Trees have limited long term future potential</li> <li>Sewer runs within 5.0m of the base of the trees</li> </ul>	<ul style="list-style-type: none"> <li>Dismantle to near ground level to facilitate construction</li> </ul>	C1
A3	• Sycamore • Elm	<13	N: <5 E: <5 S: <5 W: <7	<520	<6.30	<125	>0	>0	MA	20-40	F/F	<ul style="list-style-type: none"> <li>Sycamore stems on the site boundary with an Elm understorey</li> <li>Ivy present</li> <li>Deadwood present</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> <li>Remove overhanging deadwood</li> <li>Remove heavily leaning stems</li> </ul>	C1
A4	• Sycamore • Ash	<17	N: <7 E: <7 S: <7 W: <7	<480	<5.70	<102	>0	>0	MA	>40	F/F	<ul style="list-style-type: none"> <li>Dense clump of predominantly Sycamore stems which are probably naturally regenerated</li> <li>Ivy present</li> <li>Ash stock not yet showing signs of ADD</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> </ul>	B2
A5	• Sycamore	<14	N: <7.5 E: <7.5 S: <7.5 W: <7.5	<600	<7.20	<163	>0	>0	MA-M	>40	F/F	<ul style="list-style-type: none"> <li>Line of scruffy Sycamore stems</li> <li>Stems probably follow an old hedgerow line</li> <li>Ivy present</li> </ul>	<ul style="list-style-type: none"> <li>Sever ivy at base of tree</li> </ul>	B2

Data Type: Groups	Site Reference: JG/B152/1221	Location: St Minver Holiday Park	Inspection Date: 9th December 2021	Lead Surveyor: Joel Gray
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Ref No.	Species	Tree Height	Crown Spread	Stem Dia (mm)	RPA Radius	RPA Area	LB Ht	Cr Ht	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
G1	• Bay	<5.5	N: <5 E: <5 S: <4 W: <3	<300	<3.60	<41	>0	>0	M	20-40	G/F	• Scruffy group of dense stems with limited future potential	• Maintain by regular trimming	C1
G2	• Elm	<5	N: <7 E: <6 S: <6 W: <3	<200	<2.40	<18	>0	>0	Y	10-20	F/F	• Group of Elm on boundary which have been heavily reduced to approximately 1.0m stumps • Regrowth from stumps is currently approximately 5.0m in height	• No works required	C1
G3	• Sycamore • Ash • Copper Beech	<12	N: <4 E: <5.5 S: <5 W: <6	<550	<6.60	<137	>0	>0	MA	>40	F/F	• Line of mixed stems running along a possible field boundary line	• No works required	B2



Data Type: Hedges      Site Reference: JG/B152/1221    Location: St Minver Holiday Park    Inspection Date: 9th December 2021    Lead Surveyor: Joel Gray

Ref No.	Species	Tree Height	Crown Spread	Stem Dia (mm)	RPA Radius	RPA Area	LB Ht	Cr Ht	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
H1	<ul style="list-style-type: none"> <li>• Laurel</li> <li>• Sycamore</li> <li>• Goat Willow</li> </ul>	<10	N: <5 E: <5 S: <5 W: <5	<300	<3.60	<41	>0	>0	MA	20-40	F/F	<ul style="list-style-type: none"> <li>• Mixed hedgerow separating two areas of the site</li> <li>• Tarmac surface extends immediately adjacent to the base of the hedgerow on its northern side</li> <li>• Scruffy and unmanaged appearance</li> </ul>	<ul style="list-style-type: none"> <li>• Manage by flailing</li> </ul>	B2



### 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
- Crown spread
- Root protection area
- ✕ Trees to remove
- Braced Heras fencing (see AGS101)
- ~~~~~ High-visibility barrier fencing (see AGS105)
- Proposed development footprint
- Construction exclusion zone
- No-dig surfacing (see AGS301)
- Controlled hard surface removal (see AGS 408)

**Notes**

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Drawing Title:  
**Tree Location Plan**

Location:  
**St Minver Holiday Park  
 Wadebridge**

Date:	Project Reference:	Revision:
13.12.2021	JG/B152/1221	1.0
Scale:	Paper Size:	Drawn By:
1:600	A3	JG

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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.



### 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
- Crown spread
- Root protection area
- ⊗ Trees to remove
- Braced Heras fencing (see AGS101)
- High-visibility barrier fencing (see AGS105)
- Proposed development footprint
- Construction exclusion zone
- No-dig surfacing (see AGS301)
- Controlled hard surface removal (see AGS 408)

### 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:  
**St Minver Holiday Park  
 Wadebridge**

Date:	Project Reference:	Revision:
13.12.2021	JG/B152/1221	1.0
Scale:	Paper Size:	Drawn By:
1:600	A3	JG

**Advanced Arboriculture**  
 Venmore Barn  
 Woodbury  
 Devon EX5 1LD  
 t: 01395 239002  
 e: info@advancedarb.com  
 w: www.advancedarb.com

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:

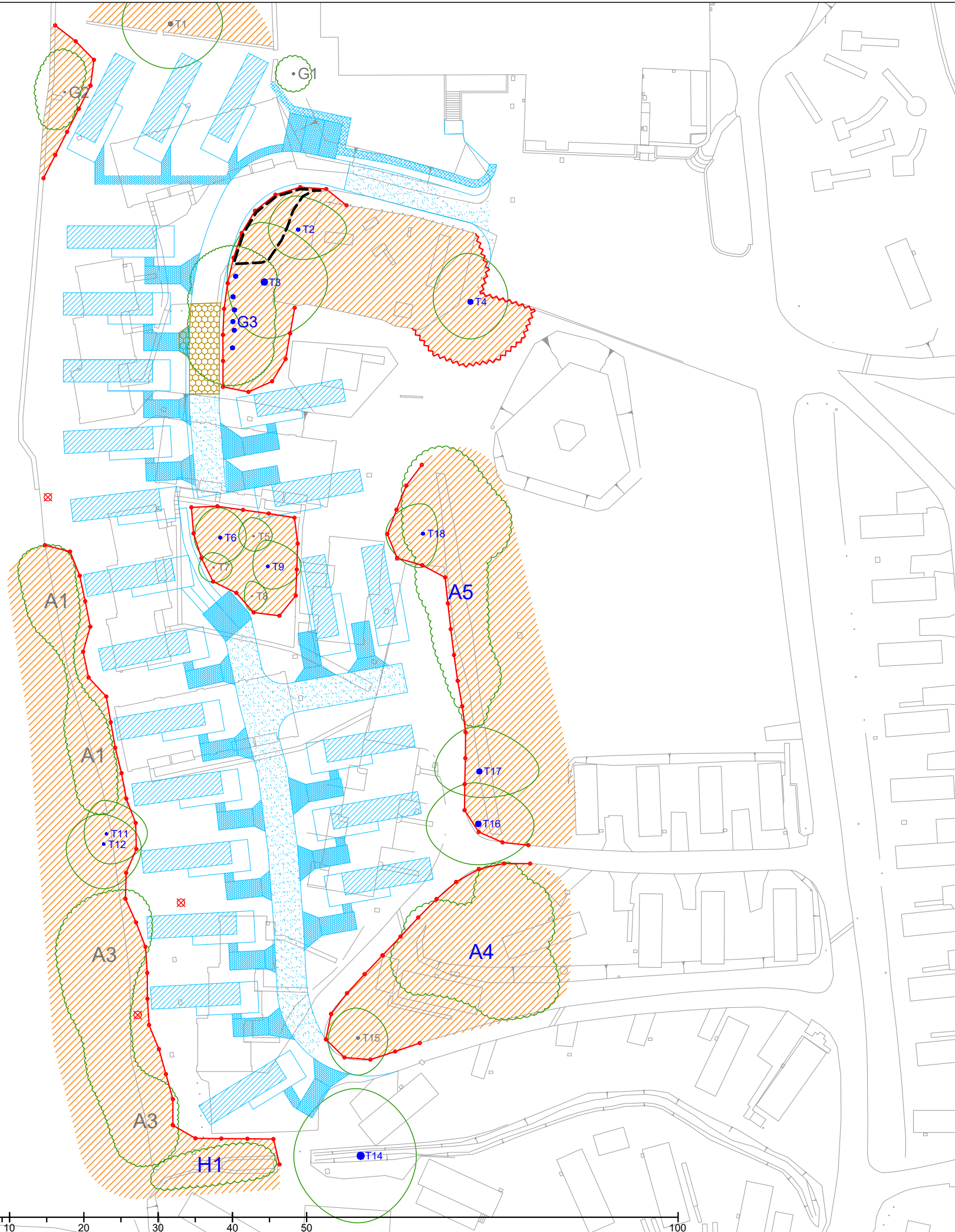
1. Tree Protection Plan and Arboricultural Method Statement to be reviewed and signed off by the Site Manager and Arboricultural Supervisor (see below). Any amendments to be made and a copy of all revised documents sent to the local planning authority as necessary. Signed off copy to be held on file 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. Hard surfacing adjacent to T2/T3 to be carefully removed as detailed within Arboricultural Guidance Sheet AGS408.
5. Protective fencing to be installed as per the specification detailed within Arboricultural Guidance Sheet AGS101.
6. Arboricultural supervisor to attend site to inspect fencing prior to the commencement of any construction activities (may be done via Skype/Facetime where practicable).
7. Demolition and construction to commence in accordance with approved site layout.
8. Advanced Arboriculture 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.
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.

**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"/>



**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
- Crown spread
- Root protection area
- Trees to remove
- Braced Heras fencing (see AGS101)
- High-visibility barrier fencing (see AGS105)
- Proposed development footprint
- Construction exclusion zone
- No-dig surfacing (see AGS301)
- Controlled hard surface removal (see AGS 408)



**Notes**

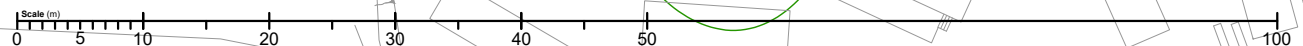
- Protective fencing must not be breached or dismantled at any point during the construction programme without the written consent of the local planning authority.
- Failure to fully comply with this Arboricultural Method Statement may result in the local planning authority pursuing enforcement action.
- 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:  
**Arboricultural Method Statement Plan**

Location:  
**St Minver Holiday Park  
 Wadebridge**

Date:	Project Reference:	Revision:
13.12.2021	JG/B152/1221	1.0
Scale:	Paper Size:	Drawn By:
1:600	A3	JG

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Note: The original of this drawing was produced in colour - a monochrome copy should not be relied upon. A copy of this drawing can be requested in DWG format to allow for setting out of tree protection measures. All drawings © Advanced Arboriculture.

# 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: _____ -----
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: _____ -----

### 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:  
**St Minver Holiday Park Wadebridge**  
Date: 13.12.2021 Project Reference: JG/B152/1221 Revision: 1.0  
Scale: 1:600 Paper Size: A3 Drawn By: JG

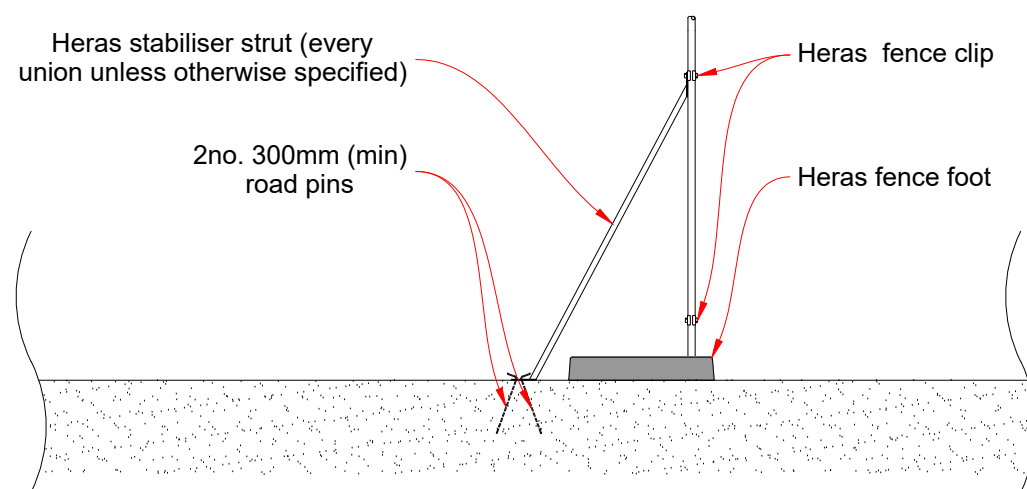
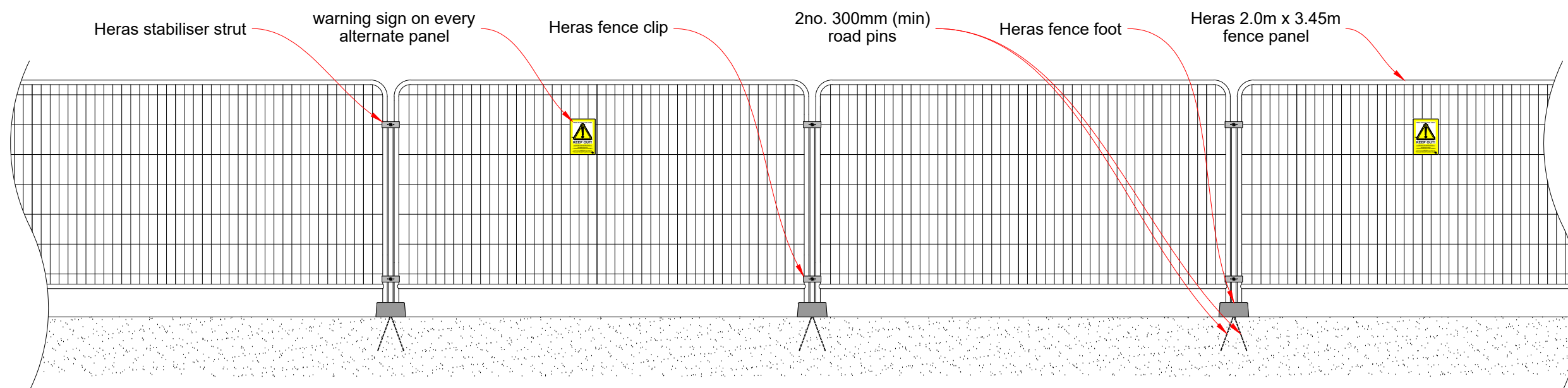
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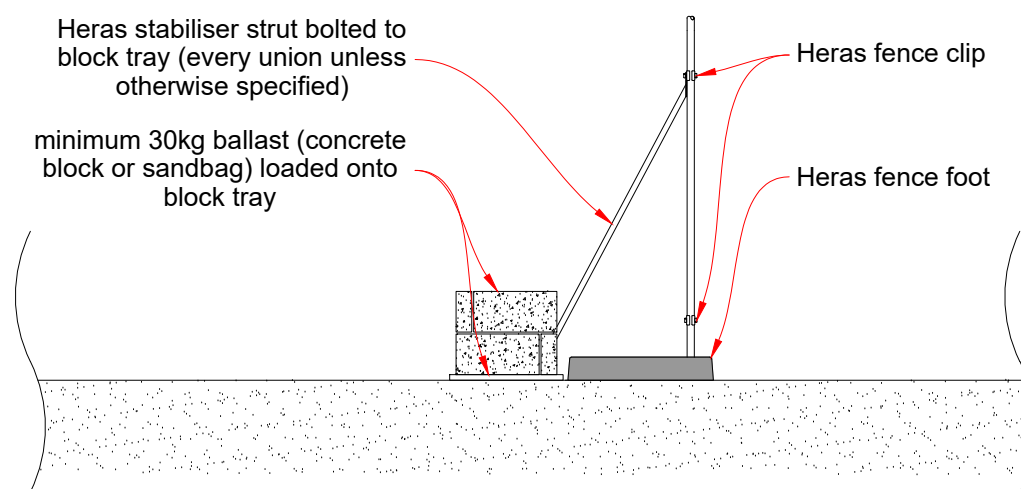


**Notes**

- 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)**

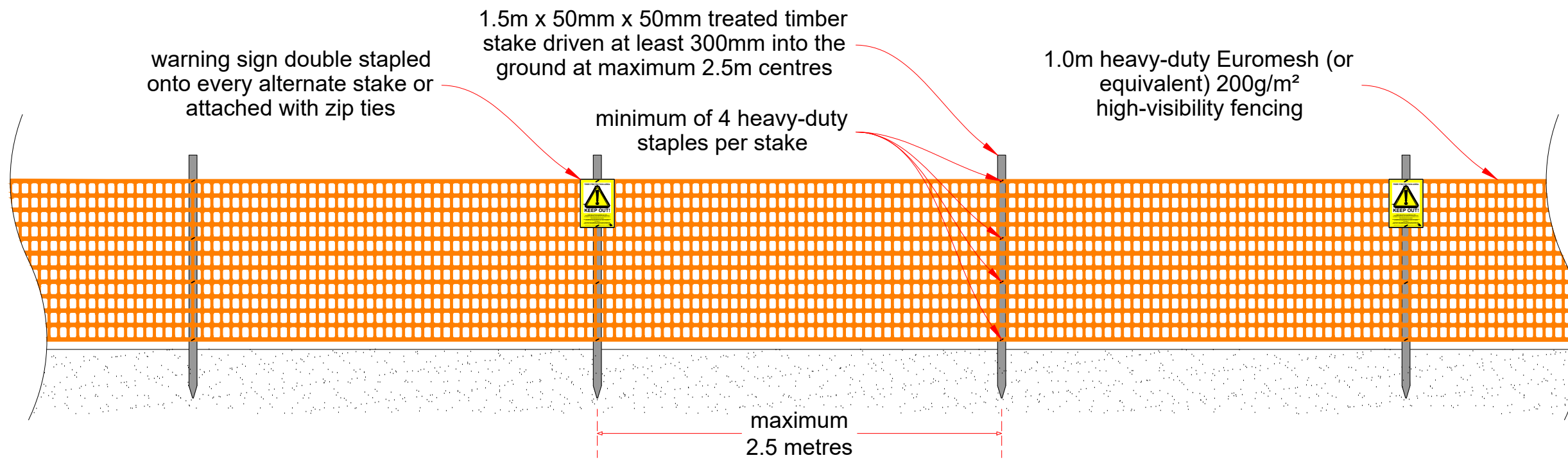
Drawing Title:  
**Braced Heras Fencing**

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

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 e: info@advancedarb.com  
 w: www.advancedarb.com

**Notes**

- These specifications are for guidance only.
- A check for underground services must be completed before driving any stakes into the ground. Where underground services may prevent safe use of stakes driven into the ground, consent must be sought from the local planning authority for the use of rigid plastic construction barriers or a water-filled plastic barrier block system.
- 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.

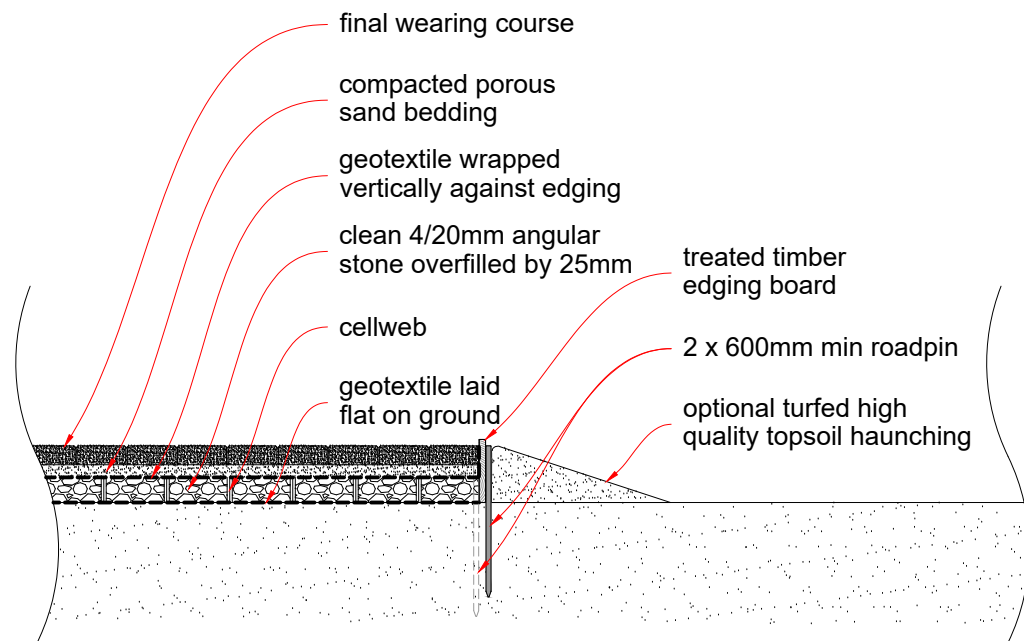


**High-Visibility Barrier Fencing**

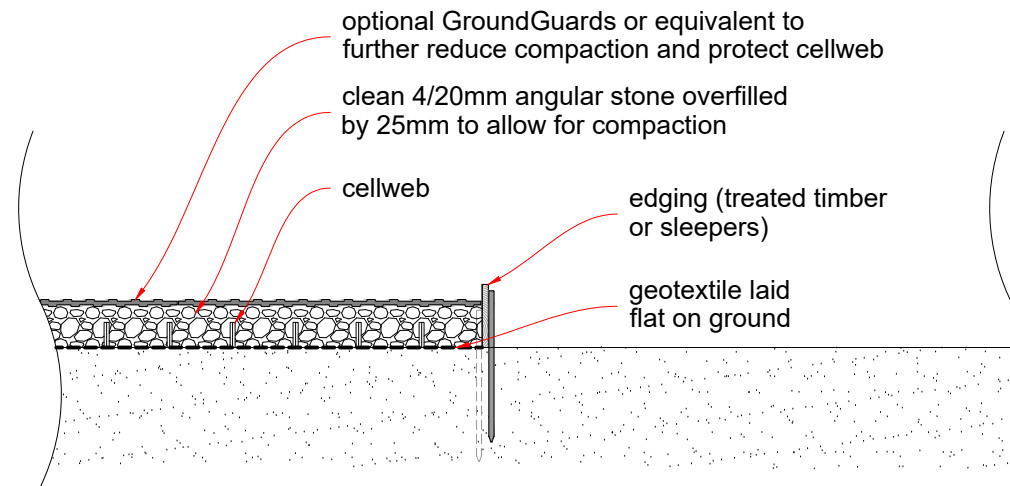
Date:	Drawing Number:	Revision:
01.02.2021	AGS105	2.0
Scale:	Paper Size:	Drawn By:
1:30	A3	TH

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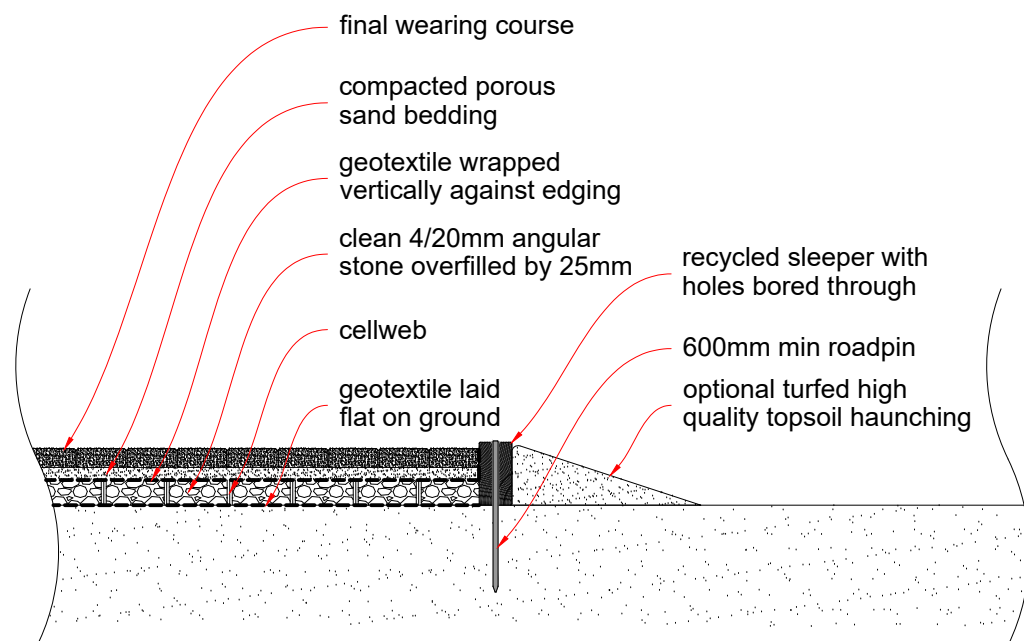




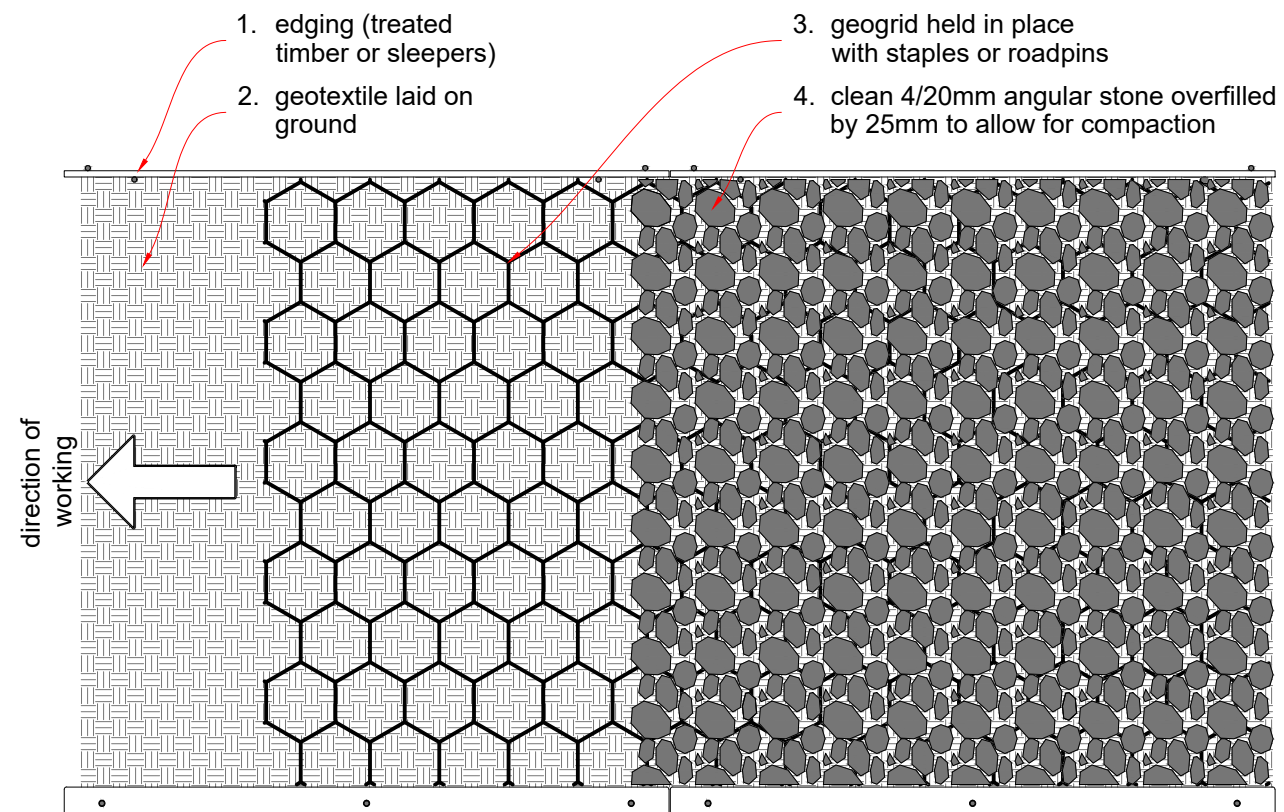
**Timber-Board Edging Cross Section**



**Temporary Ground Protection Cross Section**



**Recycled Sleeper Edging Cross Section**



**Plan View of No-Dig Installation**

**Notes**

- These specifications are for guidance only and **must** be reviewed by the Project Manager, Project Engineer and Arboricultural Supervisor prior to commencement of any works on site.
- We recommend Greenfix to provide a comprehensive engineering and design service for no-dig surfaces (t: 01608 666027, w: www@greenfix.co.uk).
- The Arboricultural Method Statement below is to be followed for all no-dig surfacing permitted within the root protection area (RPA) by a full planning consent.
- This information must accompany all tender documents to enable contractors to factor these specifications in their costings.
- Local planning authority consent for these specifications cannot be assumed and must be sought prior to commencement of any construction works.

**Arboricultural Method Statement**

1. Chosen specification to be reviewed by suitably qualified engineer to ensure that it is fit for purpose.
2. Ground to be raked clear of debris including leaf litter and twigs.
3. Treated timber or recycled sleeper edging to be installed, ensuring no services are present before driving roadpins in to secure edging.
4. A layer of geotextile (Greenfix TRP-3000 or equivalent) to be laid out across the entire area to be surfaced.
5. Layer of cellular confinement geogrid (Greenfix GEOWEB or equivalent) to be secured into place along the entire length of the route using Greenfix ATRA Keys and roadpins.
6. The geogrid to be overfilled by 25mm with 4/20mm clean angular stone using a mini-dumper truck, powered barrow or hand barrow, working along the route from its starting point so that the stone delivery only runs over filled areas of grid.
7. If the no-dig is to be used as a construction access, it should be slightly overfilled with stone and optional GroundGuards or equivalent placed on top to protect the geogrid and further reduce compaction.
8. Remove GroundGuards (if fitted) to allow for installation of final wear course.
9. Some tamping down may be necessary to ensure a firm interlock between stones and minimise settlement.
10. A layer of geotextile (Greenfix TRP-3000 or equivalent) to be laid out across the entire area to be surfaced, wrapping the sides up to the level of the top of the timber or sleeper edging.
11. Cover the geotextile in a layer of sand and firm down thoroughly.
12. Install the final wearing course, ensuring that any block paving is permeable.

Alternative wear courses including permeable tarmac or resin-bound gravel may be suitable for installation on the stone and geogrid base but will require further arboricultural input to ensure the specification, sub-base and installation method are acceptable.

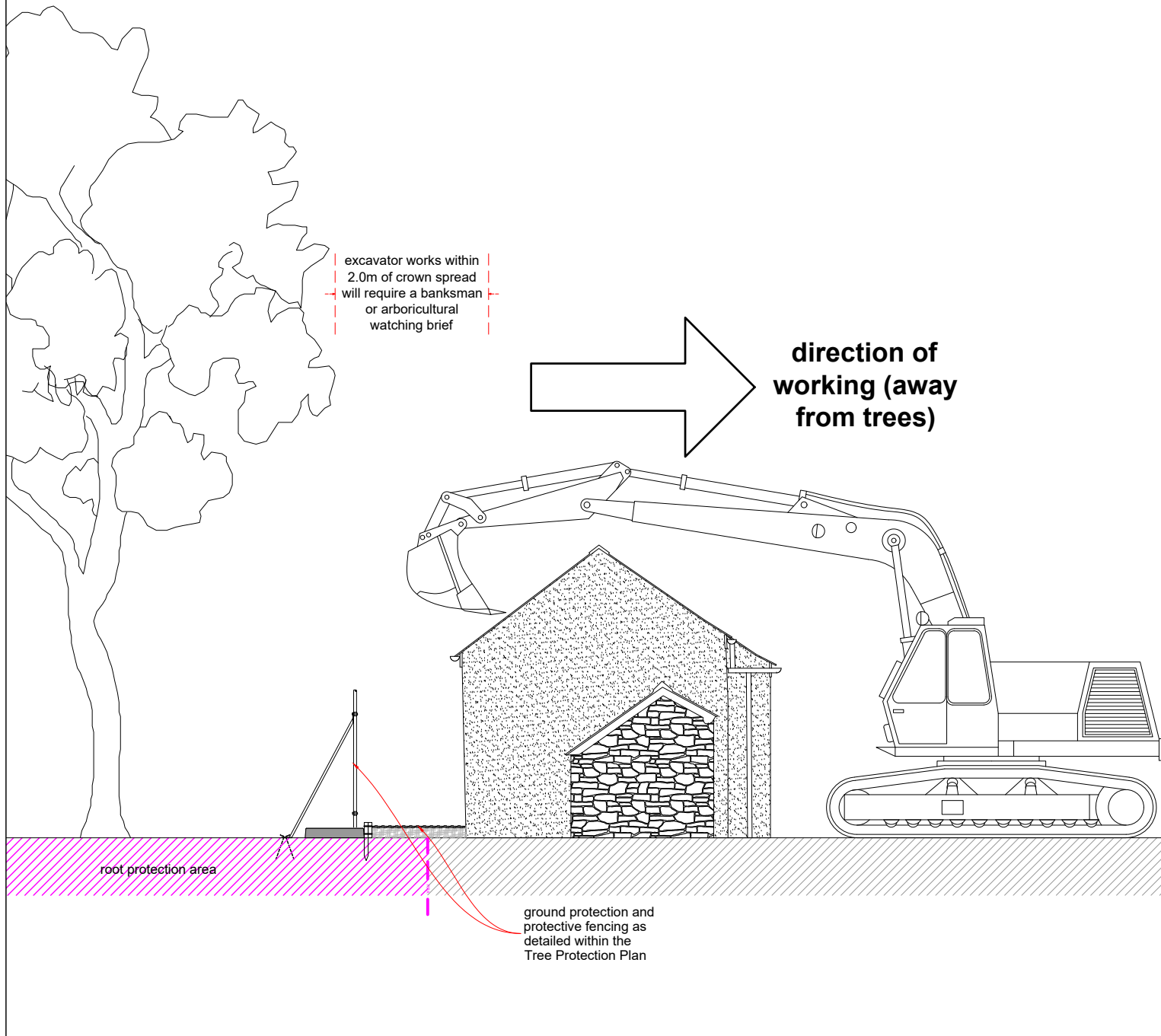
Drawing Title:

**No-Dig Specification**

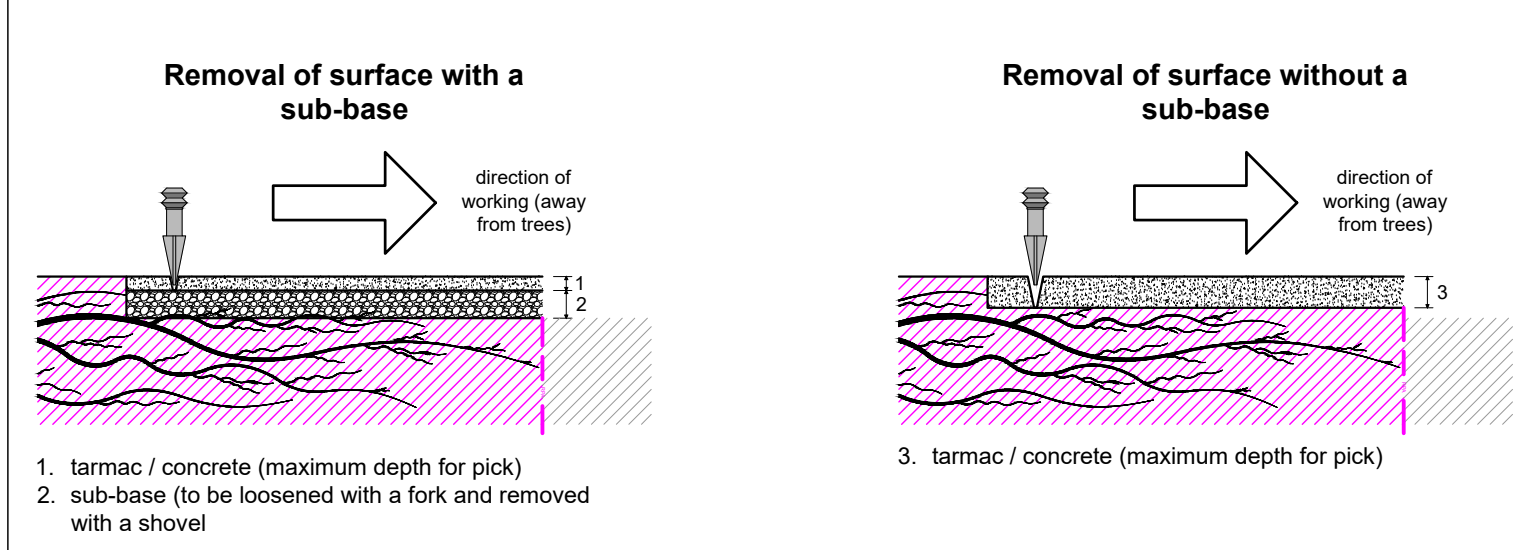
Date:	Drawing Number:	Revision:
01.02.2021	AGS301	1.0
Scale:	Paper Size:	Drawn By:
1:30	A3	TH

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# Demolition Zone Working Directions



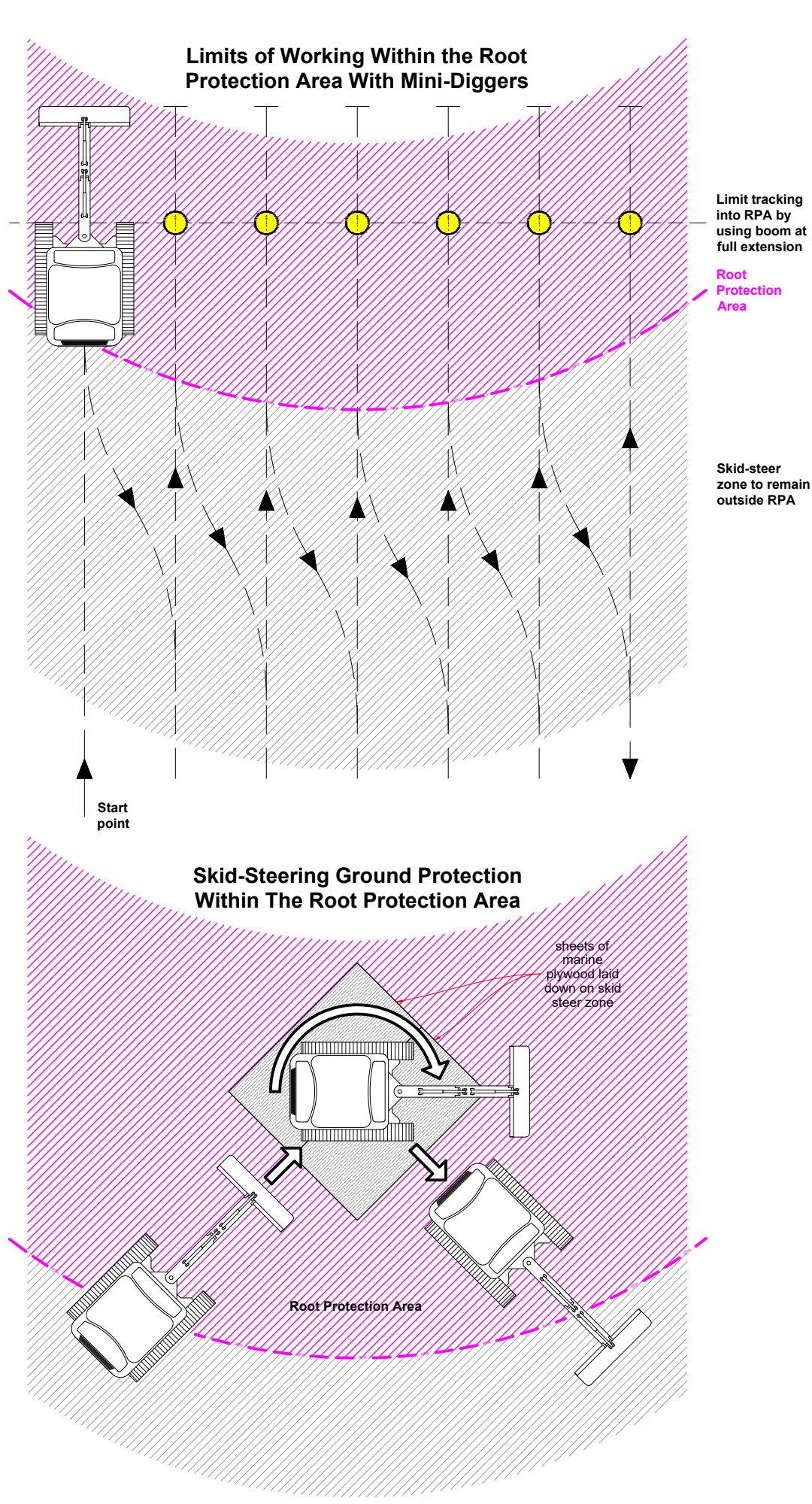
# Removal of Hard Surfaces Near Trees



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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