



Halsnead Park

Whiston

ARBORICULTURAL METHOD STATEMENT

Version 4.0, August 2024

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Document Control

Document Title	Arboricultural Method Statement
Prepared for	Taylor Wimpey North West
Prepared by	The Environment Partnership (TEP) Ltd
Document Ref.	7137.01.001
Date	November 2020
Author	Heather Eilbeck
Checked	Jonathan Smith
Approved	Jonathan Smith

Amendment History					
Version	Date	Modified by	Approved by	Reason(s) for issue	Status
0.1	12/11/2020	HEE	JGS	Checking	Draft
1.0	15/01/2021	HEE	JGS	Approval	Superseded
2.0	16/03/2022	HEE	TDP	Updated layout (Rev M) and external works/drainage plans, additional survey data added within Fox's Clump	Superseded
3.0	09/05/2023	HEE	JGS	Updated layout (Rev T); inclusion of boundary treatment AMS; additional pruning to G20 and increased pruning of H1 and G19	Superseded
4.0	20/08/2024	HEE	JGS	Revised construction methodology for external footpath around Fox Clump woodland (W1)	Final

Halsnead Park, Whiston
Arboricultural Method Statement
Overview and Sign-Off

This document comprises 6 separate Method Statements together with supporting plans and has been produced to support a detailed planning application. The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

Failure to adhere to the correct sequence, manner and timing of operations detailed below may result in irremediable damage to trees, and thereby breach of planning consent. All retained trees are protected and damage or removal could result in a stop notice or prosecution.

GENERAL TERMS

- A. This document should be reproduced in its entirety, in colour and at A3 size.
- B. The Site Manager will read and understand this Method Statement. It will be the responsibility of the Site Manager to ensure compliance with this Method Statement.
- C. A copy of this Method Statement will be made available for inspection on site and introduced to all relevant contractors.
- D. An Arboricultural Contractor will be appointed to undertake the removal of trees.
- E. An Arboricultural Consultant will be appointed to supervise activities as specified by this document. They must be provided with contact details for the site manager and notified of the date of commencement of works.
- F. All areas that are protected by Tree Protection Fencing or ground protection will be collectively defined as a Construction Exclusion Zone (CEZ). Access, works or storage within the CEZ will be prohibited unless specified by this AMS.
- G. If unexpected large roots (>25mm diameter) are encountered or if additional pruning is required the arboricultural consultant will be contacted.
- H. The Site Manager will be responsible for contacting the Arboricultural Consultant as required by this AMS or any requirement to enter a protected area arises.
- I. Each of the elements within this Method Statement will be signed-off by the arboricultural consultant in the Operations Sign-off inset on this sheet. A copy will be retained by the Site Manager and the Arboricultural Consultant.
- J. It will also be the responsibility of the appointed Arboricultural Consultant to undertake inspections not less than every two months to ensure compliance with the approved protection scheme. Any deviation from the approved scheme will be recorded below and reported to the site manager and local planning authority Tree Officer.

OVERVIEW OF OPERATIONS

- 1. APPOINTMENT OF ARBORICULTURAL CONSULTANT
- 2. APPOINTMENT OF ARBORICULTURAL CONTRACTOR
- 3. TREE AND HEDGEROW WORKS
- 4. SIGN OFF BY ARBORICULTURAL CONSULTANT
- 5. INSTALLATION OF DEMOLITION TREE PROTECTION FENCING
- 6. REMOVAL OF EXISTING STRUCTURES AND HARD SURFACING
- 7. SIGN OFF BY ARBORICULTURAL CONSULTANT
- 8. SETTING OUT OF CONSTRUCTION TREE AND HEDGE PROTECTION
- 9. INSTALLATION OF CONSTRUCTION TREE AND HEDGE PROTECTION
- 10. SIGN OFF BY ARBORICULTURAL CONSULTANT
- 11. ARBORICULTURAL WATCHING BRIEFS AND ROOT PRUNING
- 12. SIGN OFF BY ARBORICULTURAL CONSULTANT
- 13. REMOVAL OF PROTECTION MEASURES
- 14. INSTALLATION OF ABOVE GROUND CONSTRUCTION
- 15. SELECTIVE PRUNING WITHIN GROUP G20 FOR BOUNDARY TREATMENT
- 16. SUPERVISED EXCAVATION OF ACOUSTIC FENCING POST HOLES
- 17. INSTALLATION OF BOUNDARY TREATMENTS
- 18. FINAL SIGN OFF BY ARBORICULTURAL CONSULTANT

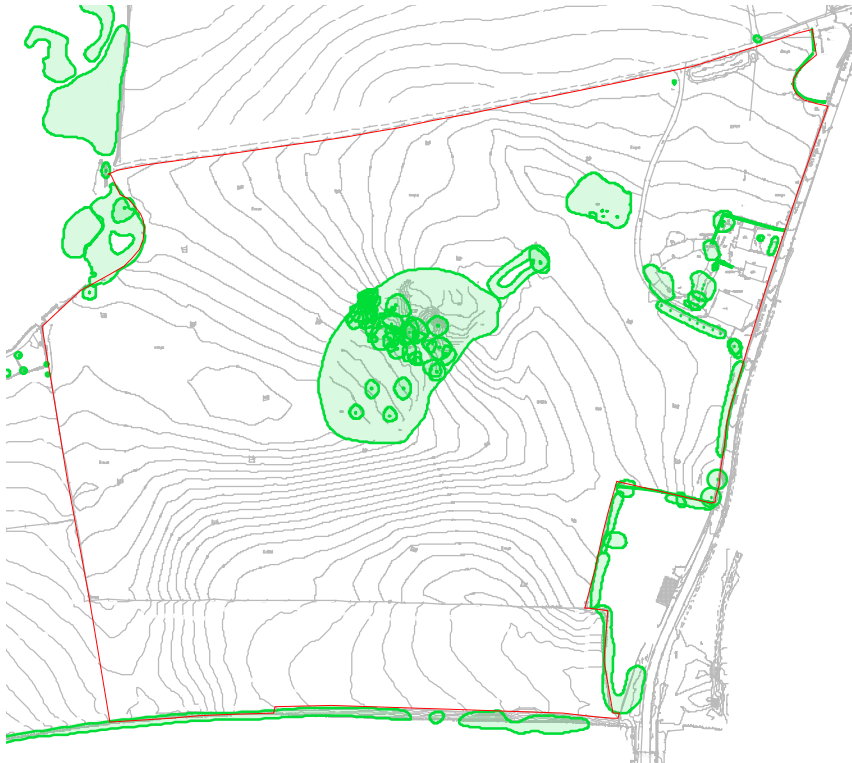


Figure 1: Existing Tree Stock



Figure 2: Tree Stock Post-Development

KEY
[This drawing must be reproduced in colour]
Application Boundary
Figure 1
Existing Trees
Existing Hedgerow
Figure 2
Retained Trees
Retained Hedgerow

Arboricultural Consultant:

Telephone: | Email:

Table with 3 columns: Task, Date, Initials. Rows include Tree and Hedgerow Works, Demolition, Construction Phase Tree Protection, Arboricultural Watching Briefs and Root Pruning, Above Ground 'no-dig' Construction, and Boundary Treatment Installation.

The above Method Statement elements have been discharged in full to the best of my knowledge and professional assessment. Where there has been any deviation from the specification, I am satisfied that this has not been injurious to retained trees and that all such deviations have complied with the spirit of the instruction insofar as was reasonably practicable or were approved in advance by the proper authority.

Signed:

Notes:

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Revision table with columns: Rev, Description, Drawn, Approved, Date. Rows B and A.

TEP THE ENVIRONMENT PARTNERSHIP logo and contact information: Genesis Centre, Birchwood Science Park, Warrington WA3 7BH. Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project: Halsnead Park, Whiston

Title: AMS Overview and Operation Sign-off

Drawing Number: D7137.01.001

Table with 5 columns: Drawn, Checked, Approved, Scale, Date. Values: HE, JGS, JGS, 1:5000 @ A3, 14/01/2021

Halsnead Park, Whiston
Arboricultural Method Statement

Tree and Hedgerow Works

Tree works must be completed before commencement of the construction phase, including the creation of compounds, access by vehicles or plant, delivery of materials, ground investigations or works, or any other construction works unless specified in this AMS.

All tree removal and pruning works will be undertaken according to British Standard 3998:2010 by a suitably qualified, experienced and insured arboricultural contractor.

The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

This AMS must be read in conjunction with the following drawings:

- D7137.01.001 AMS Overview and Operation Sign-off
- D7137.01.008 Tree and Hedgerow Works (Sheet 2 of 2)
- D7137.01.009 Boundary Treatment Installation
- Appendix B - Tree Works Schedule

NESTING BIRD CHECK

- If tree works are scheduled in period March to August inclusive, trees identified for removal and pruning will be checked by a suitably qualified ecologist for nesting birds 24hrs prior to any works.
- Should any nesting birds be found or suspected during the course of the works, the advice for an ecologist will be required.

TREE AND HEDGEROW WORKS

- Trees indicated by a red outline and line hatch and hedges indicated by a thick pink line on Figure 1 opposite and on D7137.01.008 Tree and Hedgerow Works (Sheet 2 of 2) will be removed.
- Small trees (<70mm stem diameter at 1.5m) indicated by a brown outline and red line hatch on D7137.01.008 will be removed.
- Trees to be removed may be marked with spray by the Arboricultural Consultant to assist with identification if required.
- Trees indicated by a solid dark purple hatch on Figures 1 and 2 opposite and on D7137.01.008 will be crown lifted as annotated on that plan.
- Trees indicated by a solid cyan hatch on Figures 1 and 2 opposite and on D7137.01.008 will be crown reduced as annotated on that plan.
- Trees within group G20, indicated by a magenta cross hatch on Figure 2 opposite, will be selectively pruned during the boundary treatment installation phase of works only to allow removal of the existing fencing and installation of new 2m high close boarded fencing. Pruning will be completed in accordance with the methodology detailed on D7137.01.009 Boundary Treatment Installation.
- All tree works are detailed within the Tree Works Schedule appended to this document in Appendix B.
- Arisings will not be stored beneath the canopy of retained trees.
- Plant and vehicles used for the tree works and storage of fuels and oils will not be permitted beneath the canopy of any retained tree or within its Root Protection Area (calculated as a circle with a radius 12 times the stem diameter).
- Stumps within 5m of retained trees will be ground out or chemically treated and left in-situ (i.e. not excavated or pulled).
- The stumps of removed trees located beneath the canopies of retained trees will be accessed via existing areas of hard-standing or by using temporary boards over the rooting areas of retained trees.
- Where doubt exists over the appropriate treatment of trees, the appointed arboricultural consultant will be contacted prior to acting on assumption.
- The completion of tree works according to this Method Statement will be verified by the appointed arboricultural consultant.



Figure 1: Tree and Hedgerow Works (1:2000)

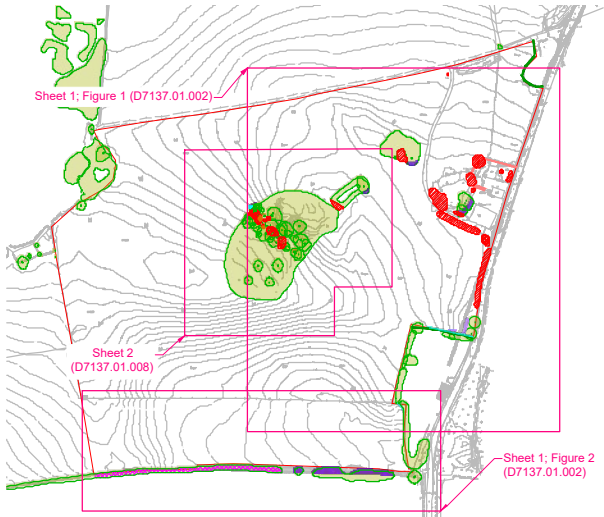


Figure 3: Tree Work Insets Overview (1:8000)

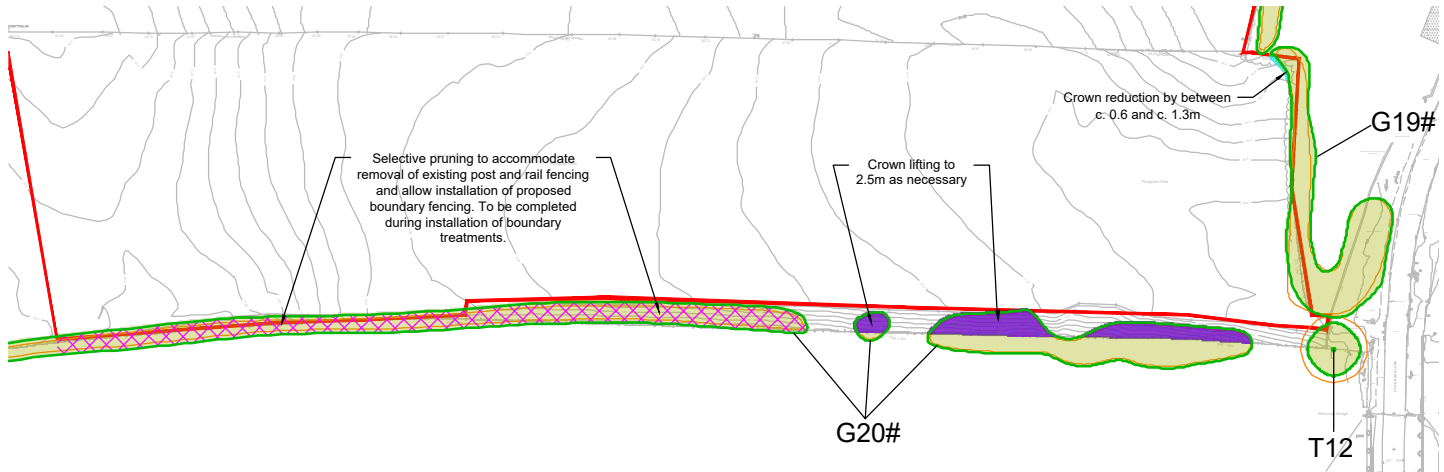


Figure 2: Tree and Hedgerow Works (1:2000)

KEY

[This drawing must be reproduced in colour]

T1/G1 Trees

H1 Hedgerow

Root Protection Area (RPA)

Small Trees (<70mm stem diameter at 1.5m)

Application Boundary

Approximate location (Feature not shown on supplied topographical survey)

* Tree Preservation Order 64/00001/TPO (Halsnead Park, Lickers Lane Tree Preservation Order No. 1)

Trees and hedgerow to be retained and protected

Trees to be retained

Hedgerow to be retained

Small trees to be retained (<70mm stem diameter at 1.5m)

Proposed tree and hedgerow works

Trees to be removed

Hedgerow to be removed

Small trees to be removed (<70mm stem diameter at 1.5m)

Retained trees to be crown reduced as annotated

Retained trees to be crown lifted as annotated

Retained trees to be selectively pruned during boundary treatment installation

Retained hedgerow to be pruned

NOTE: Coloured tree retention hatch not shown for W1 on drawing D7137.01.008 for clarity.



B	Additional pruning of H1, G19, and G20	HEE	JGS	09.05.2023
A	Updated tree survey data; removals/works; key	HEE	TDP	16.03.2022
Rev	Description	Drawn	Approved	Date

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Project
Halsnead Park, Whiston

Title
Tree and Hedgerow Works (Sheet 1 of 2)

Drawing Number
D7137.01.002

Drawn	Checked	Approved	Scale	Date
HEE	JGS	JGS	See Figures @ A3	14/01/2021

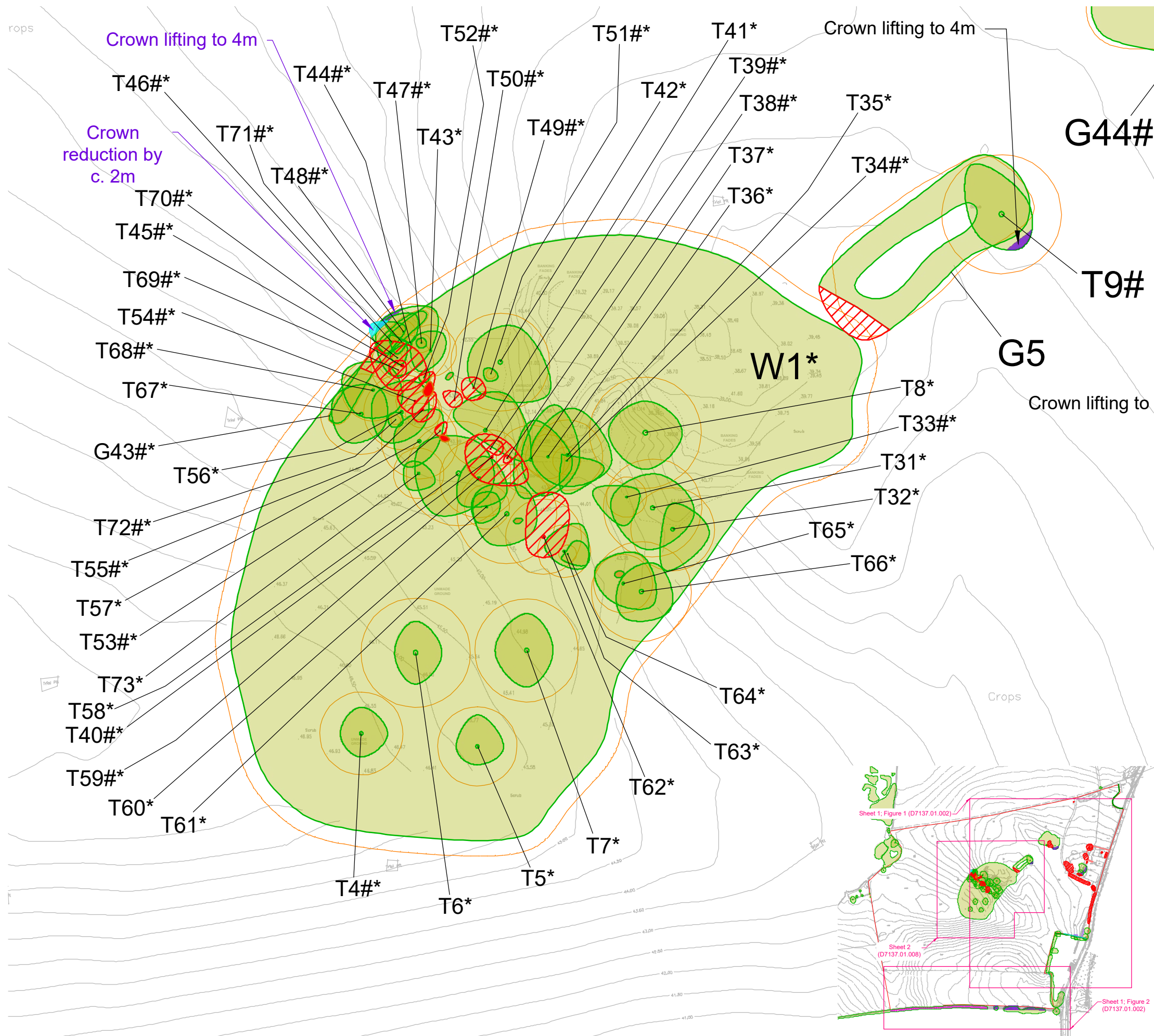


Figure 1: Tree and Hedgerow Works (1:750)

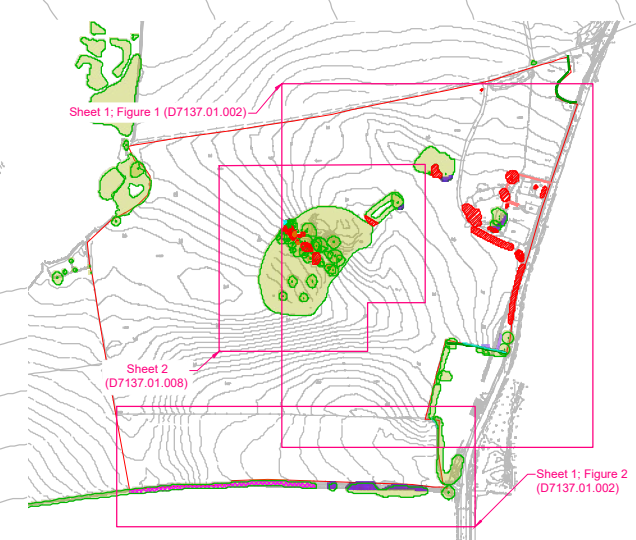


Figure 2: Tree Work Insets Overview (1:8000)

KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Small Trees (<70mm stem diameter at 1.5m)
- Application Boundary
- # Approximate location (Feature not shown on supplied topographical survey)
- * Tree Preservation Order 64/00001/TPO (Halsnead Park, Lickers Lane Tree Preservation Order No. 1)

Trees and hedgerow to be retained and protected

- Trees to be retained
- Hedgerow to be retained
- Small trees to be retained (<70mm stem diameter at 1.5m)

Proposed tree and hedgerow works

- Trees to be removed
- Hedgerow to be removed
- Small trees to be removed (<70mm stem diameter at 1.5m)
- Retained trees to be crown reduced as annotated
- Retained trees to be crown lifted as annotated
- Retained trees to be selectively pruned during boundary treatment installation
- Retained hedgerow to be pruned

NOTE: Coloured tree retention hatch not shown for W1 on drawing D7137.01.008 for clarity.

Rev	Description	Drawn	Approved	Date

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Project
Halsnead Park, Whiston

Title
Tree and Hedgerow Works (Sheet 2 of 2)

Drawing Number
D7137.01.008

Drawn	Checked	Approved	Scale	Date
HEE	TDP	TDP	See Figures @ A3	16/03/2022

Halsnead Park, Whiston

Arboricultural Method Statement

Demolition in Proximity to Trees

This document describes the process of demolition of an existing steel building and removal of existing hard surfacing that are within Restricted Areas close to trees. The removal of these structures must be done in accordance with this document. If, for whatever reason, it is not possible to comply with this document, works must cease until the Arboricultural Consultant has been contacted and an alternative method has been agreed. All tree protection measures must be in place before demolition commences.

The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

This AMS must be read in conjunction with the following drawings:

- D7137.01.001 AMS Overview and Operation Sign-off
- TEP.ARB.FEN.003 Temporary Tree Protection Fencing Specifications

DEMOLITION PHASE TREE PROTECTION FENCING

- Prior to the commencement of demolition works, the Site Manager will arrange for protection fencing to be installed.
- The alignment of fencing will be set out by the demolition contractor, as shown by a **thick blue line** on Figure 1 opposite, and will be aligned with the outer canopy edge of T10 and G9.
- Fencing will be installed according to the specification shown in **Appendix A** (ref: TEP.ARB.FEN.003). A large pdf of the sign to be laminated and affixed to alternate panels is appended to this document.
- The installation and maintenance of demolition tree protection measures according to this Method Statement will be verified via date stamped photographs sent by the Site Manager to the appointed arboricultural consultant.

REMOVAL OF HARD-SURFACES AND EXISTING STRUCTURES

- When the demolition program has been drafted, the Site Manager will contact the arboricultural consultant to arrange supervision of works within the Root Protection Areas (RPA) of T10 and G9.
- The existing industrial building, shown on Figure 1 opposite as a **solid pink hatch**, will be removed in accordance with the approved demolition plans.
- Removal of existing hard surfacing within the RPA, shown on Figure 1 opposite as a **magenta cross hatch**, will be completed under supervision of the arboricultural consultant. No breaking out of the existing sub-base will be undertaken except as directed. Any plant machinery required for excavation will be positioned outside the RPA unless on existing intact hard-surface.
- Existing hard-surfacing will be removed in layers by scraping with a flat untoothed bucket. Scoring of the wearing course with a disc cutter is permissible provided that the cutting depth is limited to 50mm. If tree roots are encountered beneath the hard surfacing, the supervising arboricultural consultant will advise on protection.
- Compliance with this Method Statement must be verified by the arboricultural consultant.



Figure 2: Demolition Inset Overview (1:8000)

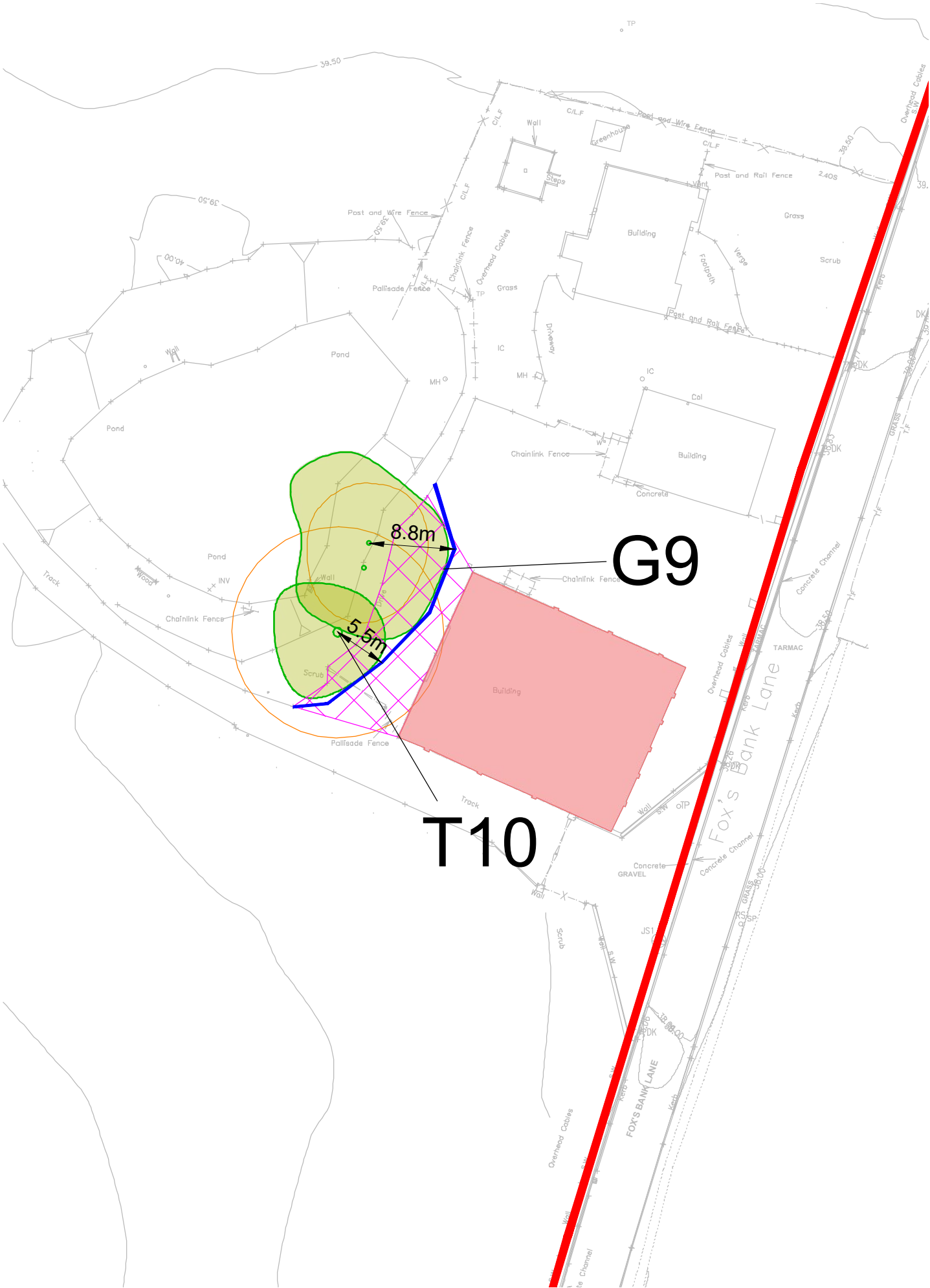


Figure 1: Demolition in Proximity to Trees (1:500)

KEY

[This drawing must be reproduced in colour]

- T1/G1 Retained trees and groups
- Root Protection Area (RPA)
- Application Boundary
- Demolition Tree Protection Fencing (c. 31.5m or 9 Heras Panels) (Must be installed prior to demolition works commencement)
- Excavation of Existing Hard Surfacing under Arboricultural Supervision
- Existing Building to be Demolished



A	Updated G9 canopy and demolition fencing alignment	HEE	TDP	16.03.2022
Rev	Description	Drawn	Approved	Date



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Project
Halsnead Park, Whiston

Title
Demolition in Proximity to Trees

Drawing Number
D7137.01.003

Drawn	Checked	Approved	Scale	Date
HEE	JGS	JGS	See Figures @ A3	14/01/2021

Halsnead Park, Whiston

Arboricultural Method Statement

Construction Phase Tree Protection (Sheet 1 of 2)

The installation of physical tree protection measures must be completed before commencement of the construction phase, including the creation of compounds, access by vehicles or plant, delivery of materials, ground investigations or works, or any other construction works. The installation of tree protection fencing and ground protection must be completed at the same time. All tree protection must be retained throughout construction and not modified in any way or removed except in strict compliance with this method statement.

The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

This AMS must be read in conjunction with the following drawings:

- **D7137.01.001 AMS Overview and Operation Sign-off**
- **D7137.01.005 Construction Phase Tree Protection (Sheet 2 of 2)**
- **TEP.ARB.FEN.003 Temporary Tree Protection Fencing Specifications**
- **TEP.ARB.GRO.001 Ground Protection Indicative Specification**

TREE PROTECTION FENCING

1. Following the completion and sign-off of tree works, the Site Manager will arrange protection fencing and ground protection to be installed.
2. The alignment of fencing will be set out by a topographical surveyor using wooden pegs as shown on Figure 1 opposite and on *D7137.01.005 Construction Phase Tree Protection (Sheet 2 of 2)* as a **thick black line**. This **must be done accurately** to ensure that tree protection does not obstruct construction. This may require the overlapping of fence panels in some areas to avoid obstruction.
3. Northings and Eastings can be provided by TEP for setting out.
4. Where a **thick dashed blue line** is shown on Figure 1 opposite, or on *D7137.01.005*, it is assumed that site hoarding fencing will be erected which will provide adequate protection to adjacent retained trees. If the existing boundary feature is removed, or site hoarding is not erected, additional tree protection measures will be required.
5. Once tree protection fencing is installed, ground protection will be laid.
6. All Root Protection Areas outside of the protective fencing which is not to be root pruned shall be covered by appropriate ground protection in accordance with the recommendations at of BS 5837: 2012. Locations where ground protection is to be installed are shown with a **solid light purple hatch** on *D7137.01.005*.
7. Within these areas, proprietary inter-linked ground protection boards (such as interlocking plastic tread boards such as "Ground-Guards" or similar) will be placed above a compressible material (150mm depth of woodchip or similar), laid onto an appropriate geotextile membrane.
8. A contractor will be engaged to install the tree protection.
9. Tree protection fencing and ground protection will be installed according to the specifications shown in **Appendix A** (ref: *TEP.ARB.FEN.003* & *TEP.ARB.GRO.001*). A large pdf of the sign to be laminated and affixed to alternate fencing panels is appended to this document.
10. Tree protection will remain in situ for the duration of the construction and will not be moved unless at the instruction of the arboricultural consultant or as detailed within this document.
11. The installation and maintenance of tree protection measures according to this Method Statement will be verified by the appointed arboricultural consultant.
12. Tree protection measures will be subject to inspection by the appointed arboricultural consultant not less than every two months. It will be the responsibility of the arboricultural consultant to report their findings to the site manager and local planning authority.



Figure 1: Tree and Hedgerow Protection (1:2000)

KEY

[This drawing must be reproduced in colour]

- T1/G1/W1 Retained trees, groups and woodland
- H1 Retained hedgerow
- Root Protection Area (RPA)
- Retained small trees (<70mm stem diameter at 1.5m)
- Application Boundary
- Approximate location (Feature not shown on supplied topographical survey)
- Tree Preservation Order 64/00001/TPO (Halsnead Park, Lickers Lane Tree Preservation Order No. 1)
- Tree Protection Fencing (c. 1507m or 431 Heras Panels) (Must be installed prior to works commencement)
- Assumed Site Hoarding
- Ground protection (c. 45m²) (Must be installed prior to works commencement)



Figure 2: Tree Protection Insets Overview (1:8000)



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B	Updated layout (Rev T)	HEE	TDP	02.05.2023
A	Updated tree protection measures	HEE	TDP	16.03.2022
Rev	Description	Drawn	Approved	Date



THE ENVIRONMENT PARTNERSHIP

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Project
Halsnead Park, Whiston

Title
Construction Phase Tree Protection (Sheet 1 of 2)

Drawing Number
D7137.01.004

Drawn	Checked	Approved	Scale	Date
HEE	JGS	JGS	See Figures @ A3	14/01/2021

Halsnead Park, Whiston

Arboricultural Method Statement

Construction Phase Tree Protection (Sheet 2 of 2)

The installation of physical tree protection measures must be completed before commencement of the construction phase, including the creation of compounds, access by vehicles or plant, delivery of materials, ground investigations or works, or any other construction works. The installation of tree protection fencing and ground protection must be completed at the same time. All tree protection must be retained throughout construction and not modified in any way or removed except in strict compliance with this method statement.

The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

This AMS must be read in conjunction with the following drawings:

- D7137.01.001 AMS Overview and Operation Sign-off
- D7137.01.004 Construction Phase Tree Protection (Sheet 1 of 2)
- TEP.ARB.FEN.003 Temporary Tree Protection Fencing Specifications
- TEP.ARB.GRO.001 Ground Protection Indicative Specification

TREE PROTECTION FENCING

- Following the completion and sign-off of tree works, the Site Manager will arrange protection fencing and ground protection to be installed.
- The alignment of fencing will be set out by a topographical surveyor using wooden pegs as shown on Figure 1 opposite and on *D7137.01.004 Construction Phase Tree Protection (Sheet 1 of 2)* as a **thick black line**. This **must be done accurately** to ensure that tree protection does not obstruct construction. This may require the overlapping of fence panels in some areas to avoid obstruction.
- Northings and Eastings can be provided by TEP for setting out.
- Where a **thick dashed blue line** is shown on Figure 1 opposite, or on *D7137.01.004*, it is assumed that site hoarding fencing will be erected which will provide adequate protection to adjacent retained trees. If the existing boundary feature is removed, or site hoarding is not erected, additional tree protection measures will be required.
- Once tree protection fencing is installed, ground protection will be laid.
- All Root Protection Areas outside of the protective fencing which is not to be root pruned shall be covered by appropriate ground protection in accordance with the recommendations at of BS 5837: 2012. Locations where ground protection is to be installed are shown with a **solid light purple hatch** on Figure 1 opposite.
- Within these areas, proprietary inter-linked ground protection boards (such as interlocking plastic tread boards such as "Ground-Guards" or similar) will be placed above a compressible material (150mm depth of woodchip or similar), laid onto an appropriate geotextile membrane.
- A contractor will be engaged to install the tree protection.
- Tree protection fencing and ground protection will be installed according to the specifications shown in **Appendix A** (ref: *TEP.ARB.FEN.003* & *TEP.ARB.GRO.001*). A large pdf of the sign to be laminated and affixed to alternate fencing panels is appended to this document.
- Tree protection will remain in situ for the duration of the construction and will not be moved unless at the instruction of the arboricultural consultant or as detailed within this document.
- The installation and maintenance of tree protection measures according to this Method Statement will be verified by the appointed arboricultural consultant.
- Tree protection measures will be subject to inspection by the appointed arboricultural consultant not less than every two months. It will be the responsibility of the arboricultural consultant to report their findings to the site manager and local planning authority.



Figure 1: Tree and Hedgerow Protection (1:2000)

KEY

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- T1/G1/W1 Retained trees, groups and woodland
- H1 Retained hedgerow
- Root Protection Area (RPA)
- Retained small trees (<70mm stem diameter at 1.5m)
- Application Boundary
- # Approximate location (Feature not shown on supplied topographical survey)
- * Tree Preservation Order 64/00001/TPO (Halsnead Park, Lickers Lane Tree Preservation Order No. 1)
- Tree Protection Fencing (c. 1507m or 431 Heras Panels) (Must be installed prior to works commencement)
- Assumed Site Hoarding
- Ground protection (c. 45m²) (Must be installed prior to works commencement)



Figure 2: Tree Protection Insets Overview (1:8000)



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B	Updated layout (Rev T)	HEE	JGS	09.05.2023
A	Updated tree protection measures	HEE	TDP	16.03.2022
Rev	Description	Drawn	Approved	Date



THE ENVIRONMENT PARTNERSHIP

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Project
Halsnead Park, Whiston

Title
Construction Phase Tree Protection (Sheet 2 of 2)

Drawing Number
D7137.01.005

Drawn	Checked	Approved	Scale	Date
HEE	JGS	JGS	See Figures @ A3	14/01/2021

Halsnead Park, Whiston

Arboricultural Method Statement

Arboricultural Watching Briefs and Root Pruning

The development layout necessitates an root pruning due to the installation of a footpath, sub-station and drainage in close proximity to retained trees. An arboricultural watching brief is therefore required in areas of increased likelihood of tree roots and therefore sensitivity. The watching brief must be performed by an arboricultural consultant.

The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

This AMS must be read in conjunction with the following drawings:

- D7137.01.001 AMS Overview and Operation Sign-off
- D7137.01.004 Construction Phase Tree Protection (Sheet 1 of 2)
- D7137.01.005 Construction Phase Tree Protection (Sheet 2 of 2)
- TEP.ARB.EXC.001 Excavation - Watching Brief Root Pruning Specification

WATCHING BRIEF AND ROOT PRUNING

- As soon as practicable (ideally immediately following the installation of tree protection fencing) the Site Manager will arrange with the arboricultural consultant a date to undertake the watching brief for root pruning.
- The watching brief and root pruning will be undertaken in locations shown on Figure 1 opposite by a **thick magenta line**.
- Tree protection fencing may be temporarily realigned at the instruction of the arboricultural consultant to allow for root pruning to take place.
- A trench will be dug using hand tools, compressed air or soil vacuum to a depth of 600mm or until, in the opinion of the arboricultural consultant, no deeper roots are anticipated. The use of plant is prohibited.
- Root pruning will not be completed during or immediately following heavy rain.
- The Arboricultural Consultant will monitor the level of root loss and make a on-site recommendations according to the following findings:
 - No roots - Continue without constraint
 - Minor roots (1 to 10mm diameter) - Continue to monitor
 - Moderate roots (11 to 24mm diameter) - Prune roots neatly
 - Major roots (25mm and above) - On-site recommendations by arboricultural consultant*

*Where major roots are found, it may be necessary to agree additional measures with the LPA before works proceed. The presence of several major roots may necessitate additional tree removal.

- Where minor and moderate roots are encountered, they will be severed neatly at the trench face closest to the tree using a sharp spade, bypass secateurs or a pruning saw as appropriate.
- Upon completion of root pruning, tree protection fencing must be moved back to the original alignment shown on drawings D7137.01.004 and D7137.01.005 Construction Phase Tree Protection.
- A photographic record of the number, diameter and location of roots will be maintained by the Arboricultural Consultant for inspection by the local authority.
- The completion of root pruning according to this Method Statement must be verified by the Arboricultural Consultant.

SUPERVISED POND DRAINAGE INSTALLATION

- When the construction programme dictates that drainage is to be installed, the Site Manager will arrange for the arboricultural consultant to attend site to supervise.
- Where a **thick green line** is shown on Figure 1 opposite, arboricultural supervision is required during excavation.
- Tree protection fencing may be temporarily realigned at the instruction of the arboricultural consultant to allow for excavation to take place.
- A trench will be dug using hand tools, or air lance and soil vacuum to a depth of 750mm. The use of other plant is prohibited and all permitted plant will be located outside of protected areas.
- Should any roots be found during excavation, the supervising arboricultural consultant will make on-site recommendations regarding root pruning in accordance with the methodology detailed in point 5 above.
- Should any root pruning be required, it will be the responsibility of the arboricultural consultant to maintain a photographic record of the number, diameter and size of roots pruned for inspection by the local authority.
- Following on from excavation in this area, the drainage pipe will be installed.
- Upon completion of pipe installation, tree protection fencing must be moved back to the original alignment shown on drawings D7137.01.004 and D7137.01.005 Construction Phase Tree Protection.
- The completion of supervised drainage installation according to this Method Statement must be verified by the Arboricultural Consultant.



Figure 1: Arboricultural Watching Briefs and Root Pruning (1:1250)

KEY

[This drawing must be reproduced in colour]

- T1/G1/W1 Retained trees, groups and woodlands
- H1 Retained hedgerow
- Root Protection Area (RPA)
- Application Boundary
- # Approximate location (Feature not shown on supplied topographical survey)
- * Tree Preservation Order 64/00001/TPO (Halsnead Park, Lickers Lane Tree Preservation Order No. 1)
- Root Pruning (Requires Arboricultural Supervision)
- Supervised Pond Drainage Installation



Figure 2: Watching Briefs Inset Overview (1:8000)



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B	Updated layout (Rev T)	HEE	JGS	09.05.2023
A	Updated layout and root pruning/watching brief areas	HEE	TDP	16.03.2022
Rev	Description	Drawn	Approved	Date



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Project
Halsnead Park, Whiston

Title
Arboricultural Watching Briefs and Root Pruning

Drawing Number
D7137.01.006

Drawn	Checked	Approved	Scale	Date
HEE	JGS	JGS	See Figures @ A3	14/01/2021

Halsnead Park, Whiston

Arboricultural Method Statement

Above Ground 'no-dig' Construction

Above ground construction close to retained trees must be done in a sensitive manner to avoid or minimise damage to their roots or aerial parts. The conduct of site operatives and the design of built elements must be within certain parameters in order to allow the vital functions of trees, in particular their roots, to survive.

The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

This AMS must be read in conjunction with the following drawings:

- **D7137.01.001 AMS Overview and Operation Sign-off**
- **D7137.01.004 Construction Phase Tree Protection (Sheet 1 of 2)**
- **D7137.01.005 Construction Phase Tree Protection (Sheet 2 of 2)**
- **TEP.ARB.CCS.001 No-dig CCS Indicative Specifications - Combined**

ABOVE GROUND 'NO-DIG' FOOTPATH CONSTRUCTION

- Once all external works, inclusive of dwelling construction, have been completed, the Site Manager will arrange a date with the Arboricultural Consultant to complete supervise installation of new footpaths in close proximity to retained trees.
- Supervised footpath construction will be undertaken in locations shown on the plan opposite as a **cyan, blue** or **magenta hatch**. Footpaths will be constructed using a cellular confinement system (e.g. Geosynthetics Cellweb or a similar product).
- Tree protection fencing may be temporarily realigned to allow pedestrian access to restricted areas to install the footpaths.
- Plant and vehicles are prohibited in all areas where tree protection fencing has been temporarily realigned unless at the instruction of the arboricultural consultant. The use of heavy plant within Fox's Clump Woodland (W1) will be prohibited. Light plant, such as mini diggers no heavier than 2 tonnes, may be used within W1 under supervision and at the instruction of the Arboricultural Consultant to assist with movement of materials. Light plant must be located on temporary ground protection boards at all times. The use of light plant within W1 may be withdrawn by the supervising Arboricultural Consultant at any time.
- The storage of materials or plant within W1 or the RPA of any retained tree is not permitted.
- Footpath alignments will be marked out by a topographical surveyor using wooden pegs.
- The new footpaths within W1, shown as a **cyan hatch**, or adjacent to G9 and T10, shown as a **blue hatch**, will be constructed on-top of the existing ground level at the alignment shown. A maximum depth of 50mm may take place, no other penetration or disturbance of the existing ground level will be allowed. Within Fox's Clump Woodland (W1) this vegetation scrape will be completed using hand tools only.
- The new footpath around the perimeter of W1, shown opposite as a **magenta hatch**, will be installed at a reduced dig depth of 150mm below existing ground levels to ensure the top of the path is flush with surrounding ground. In these areas plant may be used to assist with reduced dig excavation. Excavators must use non-toothed, utility grade buckets and must be positioned outside of the RPA of W1 on the side of the footpath alignment furthest from the woodland trees. Excavation must be to no more than 150mm depth from existing ground level.
- Following vegetation scrapes/reduced dig excavation, staked treated timber edging affixed with galvanised nails will be used to form and retain the edges of the footpath.
- A blinding or levelling layer of up to 50mm of washed sharp sand (no salt or fines) may be laid within the timber edging to infill minor undulations.
- A permeable geotextile membrane will be laid on top of this blinding layer.
- The cellular confinement system will be laid on top of the blinding layer and pinned to the ground in accordance with the manufacturers instructions and to the indicative specification (ref: **TEP.ARB.CCS.001**) shown in **Appendix A**.
- It may be necessary to stack sections of cellular confinement systems dependant on the depth of the product selected and on the level increase required. Should this be the case, the construction build up (inclusive of footpath and batters) will be no more than 250mm.
- The laid and pinned cellular confinement system will then be filled and with 20-40mm clean angular stone (no fines).
- The final wearing course will be applied and will comprise a permeable gravel product. All surfacing specifications will be verified by an engineer prior to installation.
- Where required, a batter will be created and compacted using clean top soil. It will be consolidated using hand tools only and seeded. No soil containing site debris (e.g. rubble or stone) will be imported into W1 or within the root protection area of any retained tree.

- No level changes except the footpath surface itself and any adjacent batter or as detailed within this AMS will be permitted.
- No further ground piercing other than that described in this AMS will be permitted.
- Upon completion of above ground footpath installation, the tree protection fencing will be moved back to the original alignment shown on drawings **D7137.01.004** and **D7137.01.005 Construction Phase Tree Protection**, unless all external works (excluding soft landscaping) have been completed. Should this be the case, tree protection measures can be removed.
- The completion of above ground 'no-dig' footpaths according to this Method Statement must be verified by the appointed Arboricultural Consultant.



Figure 1: Above Ground Construction Footpaths (1:2000)

KEY
[This drawing must be reproduced in colour]

- T1/G1 Retained trees and groups
- H1 Retained hedgerow
- Root Protection Area (RPA)
- Retained small trees (<70mm stem diameter at 1.5m)
- Application Boundary
- Approximate location (Feature not shown on supplied topographical survey)
- Tree Preservation Order 64/00001/TPO (Halsnead Park, Lickers Lane Tree Preservation Order No. 1)
- Internal footpath within W1 (Constructed using above ground 'no-dig' construction methodology)
- External footpaths outside of W1 (Constructed using above ground 'no-dig' construction methodology)



Figure 2: Above Ground Construction Footpaths Inset Overview (1:8000)

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C	Updated construction method for external path around W1	HEE	JGS	20.08.2024
B	Updated layout (Rev T)	HEE	JGS	09.05.2023
A	Updated areas of above ground construction and method	HEE	TDP	16.03.2022
Rev	Description	Drawn	Approved	Date

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Project
Halsnead Park, Whiston

Title
Above Ground 'no-dig' Construction

Drawing Number
D7137.01.007

Drawn	Checked	Approved	Scale	Date
HEE	JGS	JGS	See Figures @ A3	14/01/2021

Halsnead Park, Whiston

Arboricultural Method Statement

Boundary Treatment Installation

The approved layout necessitates the installation of permanent fences within the Root Protection Areas (RPA) of retained trees and in close proximity to retained hedgerow. This can be achieved, provided that the following methods are observed.

The detail and requirements of this Method Statement must inform the production of all relevant tender documents and instructions to contractors.

This AMS must be read in conjunction with the following drawings:

- D7137.01.001 AMS Overview and Operation Sign-off
- D7137.01.002 Tree and Hedgerow Works (Sheet 1 of 2)
- Appendix B - Tree Works Schedule

REMOVAL OF EXISTING FENCING WITHIN G20 AND PREPARATION FOR PROPOSED FENCING

- Immediately prior to the commencement of boundary treatment installation, existing fencing within group G20 will be removed.
- Prior to its removal, the Site Manager will organise a date with the appointed arboricultural consultant to walk the alignment of the existing fencing with the fencing contractor to mark trees and branches that will necessitate pruning to accommodate the fencing removal and installation works. This will take place within the area shown as a magenta cross hatch in Figure 2 opposite.
- Trees will not be removed to accommodate fencing. Where pruning is not a suitable treatment to accommodate fencing removal and installation, the fencing alignment will be micro-sited as agreed on site to avoid these trees and allow for their retention.
- Pruning will then be completed in accordance with BS3998:2010 and the methodology detailed on D7137.01.002 Tree and Hedgerow Works by a suitably qualified arboricultural contractor.

SUPERVISED EXCAVATION OF ACOUSTIC FENCING POST HOLES

- When acoustic fencing, shown opposite as a magenta line, is to be installed, the Site Manager will arrange a date with the arboricultural consultant to supervise excavation of post holes that are within, or in close proximity to, retained trees.
- Supervised post hole excavation will take place in locations shown as a solid green hatch in Figures 1 and 2 opposite.
- Holes will be dug using hand tools to formation depth. The use of plant is prohibited.
- Should any roots be found during excavation, they will be severed at the hole face closest to the tree/hedge using a sharp spade, bypass secateurs or pruning saw as appropriate.
- Should any root pruning be required, it will be the responsibility of the arboricultural consultant to maintain a photographic record of the number, diameter and size of roots pruned for inspection by the local authority.
- All post holes in these areas will be lined with a non-permeable membrane to prevent contact between cementitious products and adjacent soil.
- Acoustic fencing may then be installed in accordance with the approved specification.

EXISTING WALLS WITHIN RPA OF RETAINED TREE GROUP G13

- An existing red sandstone wall, shown opposite as a green line, is to be installed to match the existing wall with the exception of where it is located within the RPA of retained tree group G13, shown opposite as a solid cyan hatch.
- In this location, it has been confirmed that the existing sandstone wall will remain in situ and will be repointed. No new wall or foundations are proposed.

BOUNDARY TREATMENT

- The following restrictions and observations will apply to all fences and walls located outside of RPA of retained trees.
- All fences will be designed such that no fence post is installed within 1m of any tree stem unless it can be driven (i.e. avoiding the need for a cement footing). This may necessitate spanning timbers or variation in post spacing.
- Post holes and wall foundations will be dug by hand and roots found will be severed at the trench face closest to the tree as per the method detailed above. In these instances, it will be the responsibility of the contractor and Site Manager to keep record of the location, number and diameter of roots pruned.
- All post holes and wall foundations will be lined with a non-permeable membrane to prevent contact between wet cementitious products and adjacent soil.
- Temporary ground protection will be laid around working areas during installation to prevent soil compaction.



Figure 1: Boundary Treatment (1:2000)

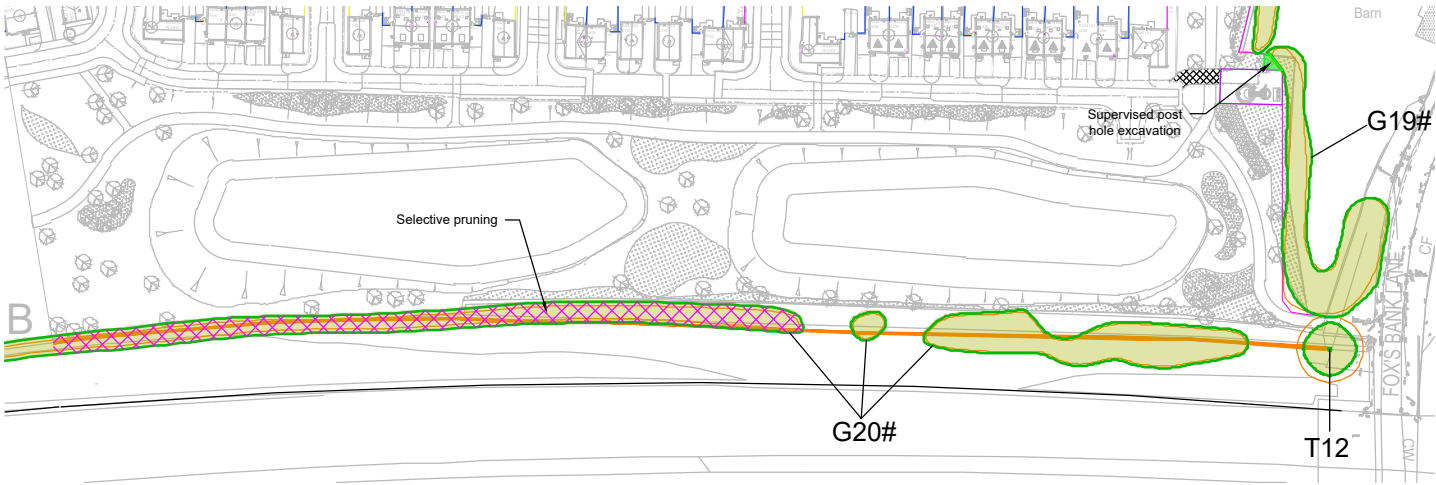


Figure 2: Boundary Treatment (1:2000)

KEY

(This drawing must be reproduced in colour)

- T1/G1 Retained trees and groups
- H1 Retained hedgerow
- Root Protection Area (RPA)
- Retained small trees (<70mm stem diameter at 1.5m)
- Application Boundary (Figure 3 only)
- # Approximate location (Feature not shown on supplied topographical survey)
- * Tree Preservation Order 64/00001/TPO (Halsnead Park, Lickers Lane Tree Preservation Order No. 1)

Proposed boundary treatment

- 1.8m high close boarded fence
- 1.8m high brick wall
- 1.8m high paladin fencing
- 2m high close boarded fencing
- 2.4m high acoustic fencing
- Red sandstone wall to match existing

Proposed tree works and special construction measures

- Retained trees to be selectively pruned during boundary treatment installation phase
- Supervised excavation of acoustic fence post holes
- Existing sandstone wall to be retained and repointed



Figure 3: Boundary Treatment Insets Overview (1:8000)

Rev	Description	Drawn	Approved	Date



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Project
Halsnead Park, Whiston

Title
Boundary Treatment Installation

Drawing Number
D7137.01.009

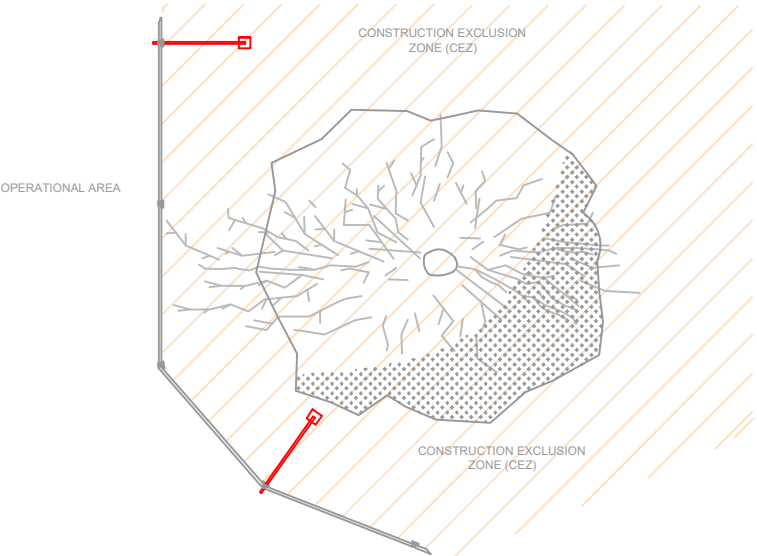
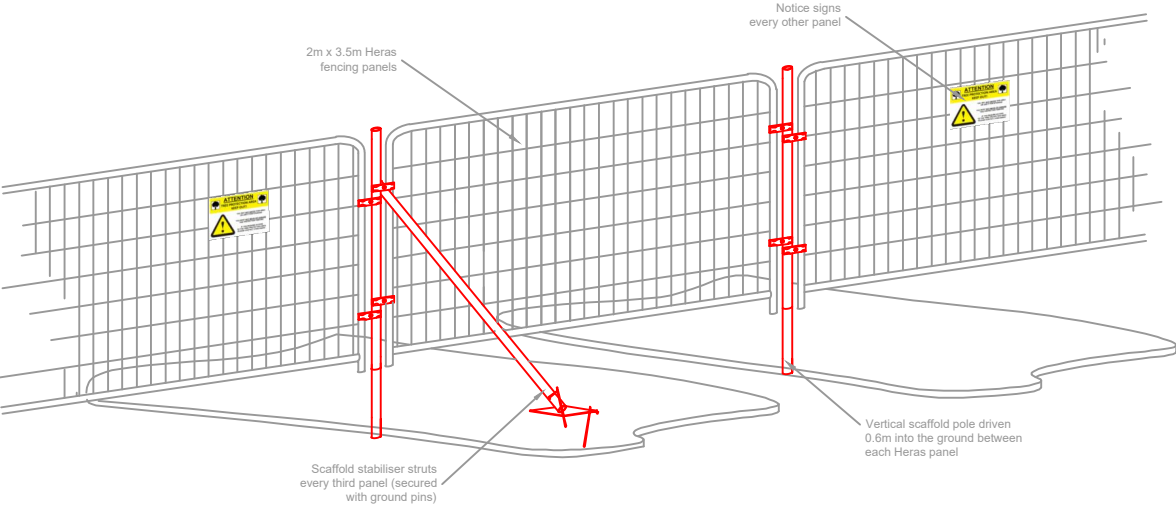
Drawn	Checked	Approved	Scale	Date
HEE	JGS	JGS	See Figures @ A3	09/05/2023



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APPENDIX A: Specification Drawings

Tree Protection Fencing for use on soft surfaces

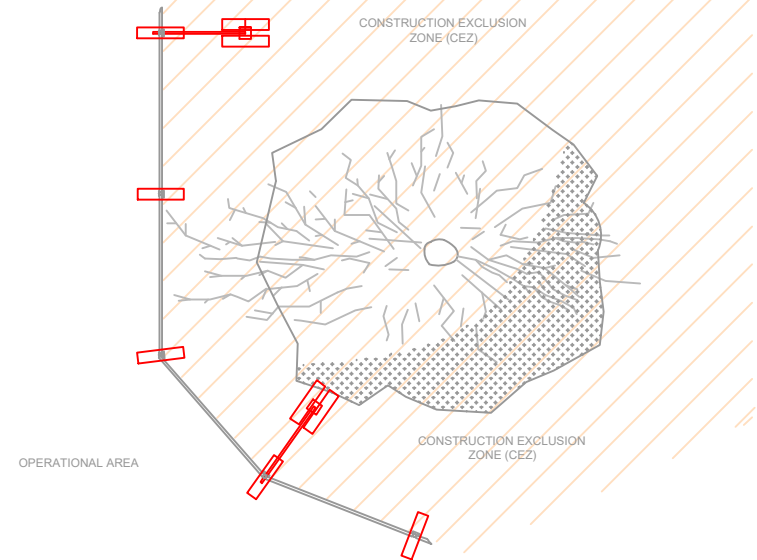
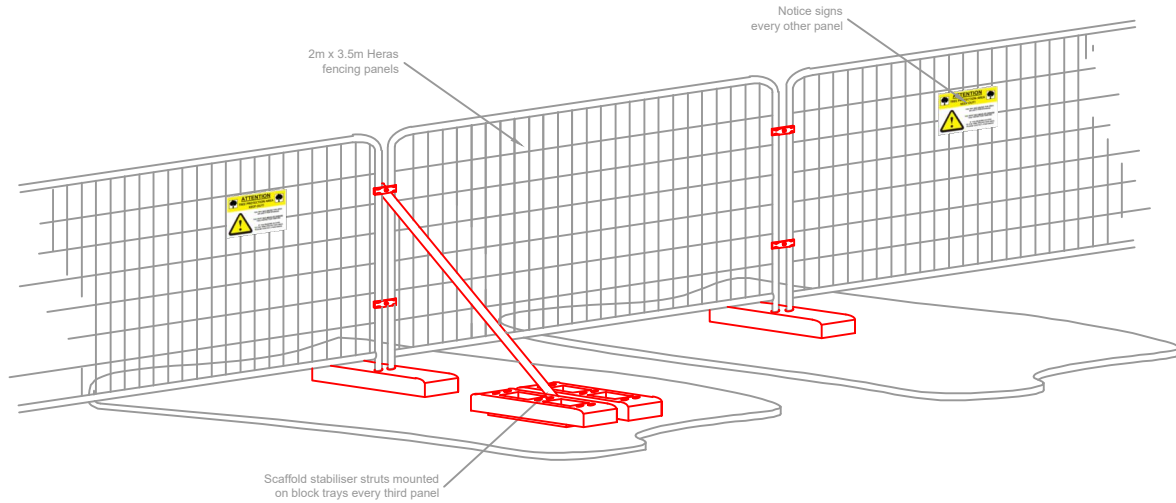


Per 3No. Heras panels (10.5m)

Component	Quantity
2m x 3.5m Standard Heras panels	3
3m Galvenised steel scaffold pole	3
Heras fecurity fence clip	12
Heras stabilising support bar	1
Stabilising pin	2
Tree protection notice	2

Notes:

Tree Protection Fencing for use on hard surfaces



Per 3No. Heras panels (10.5m)

Component	Quantity
2m x 3.5m Standard Heras panels	3
Rubber fencing block tray (footing)	5
Scaffold clamp double coupler	6
Heras stabilising strut support bar	3
Tree protection notice	2

Notes:

Rev	Description	Drawn	Approved	Date
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Project

Title
Temporary tree protection fencing specifications

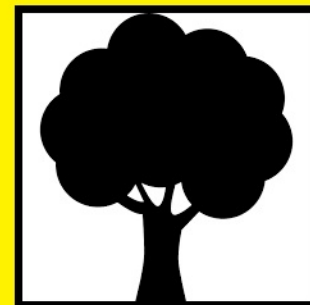
Drawing Number
TEP.ARB.FEN.003

Drawn	Checked	Approved	Scale	Date
TDP	RMG	JGS	(not to scale) @ A3	09/07/2019



ATTENTION

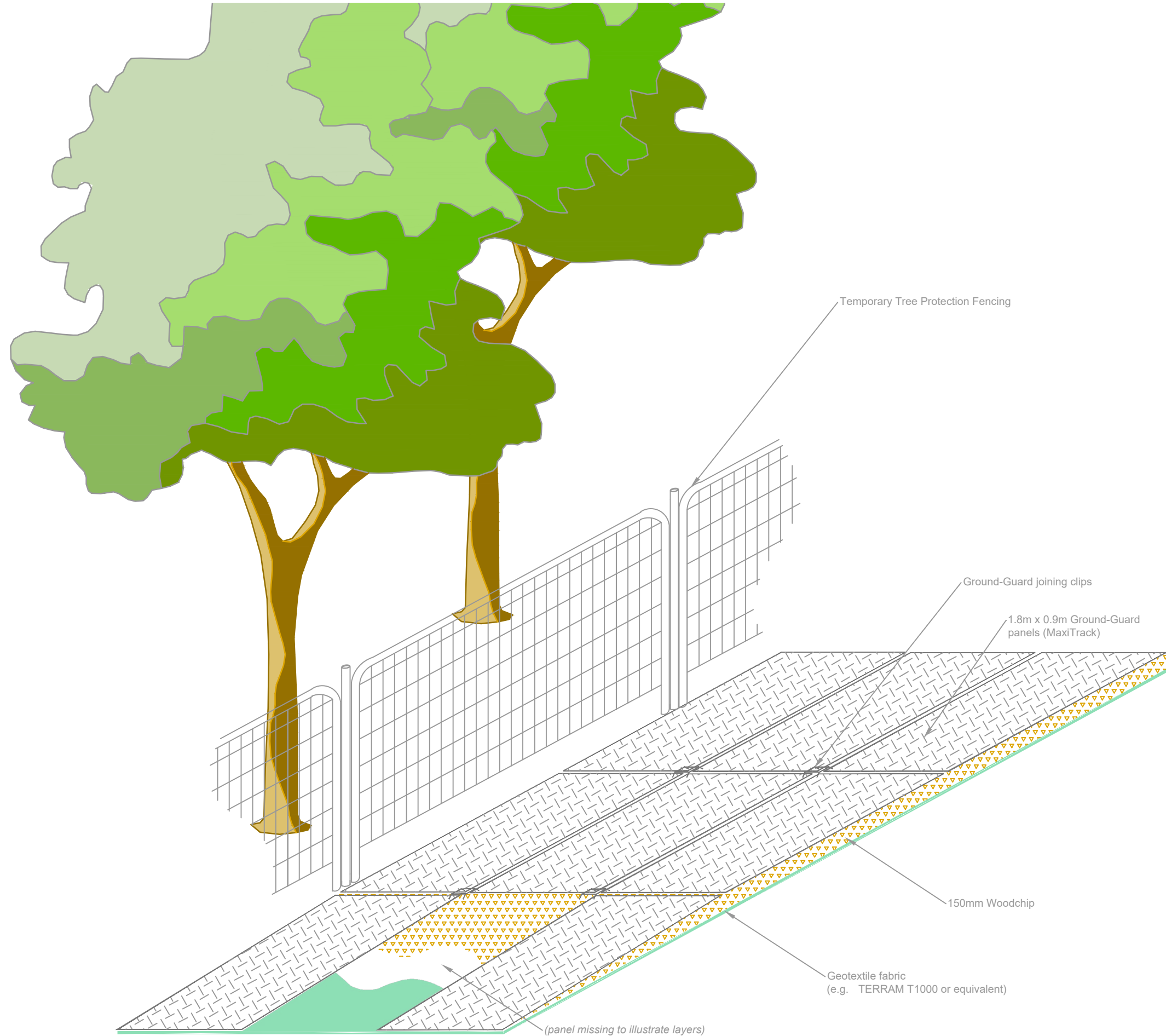
TREE PROTECTION AREA KEEP OUT!



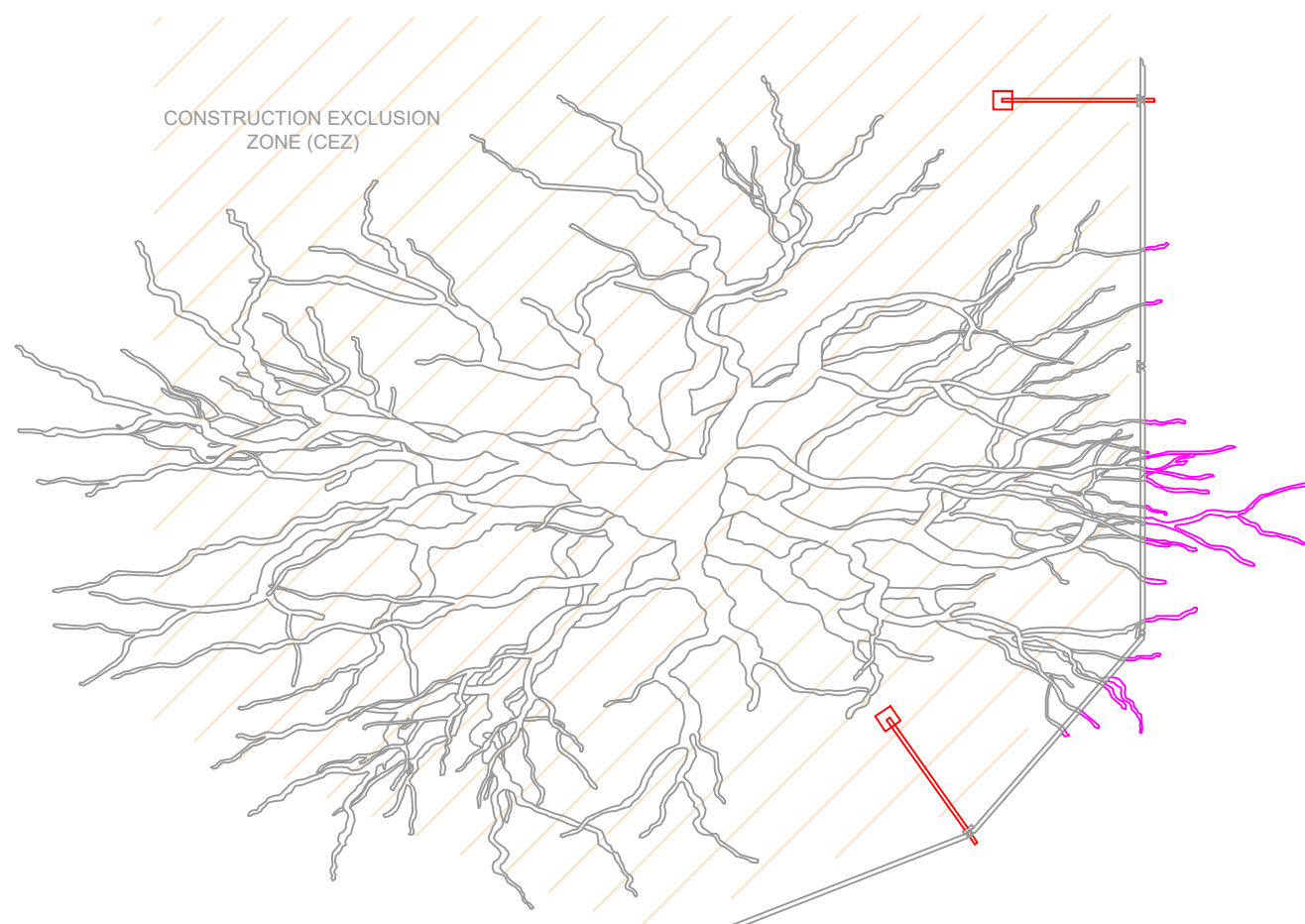
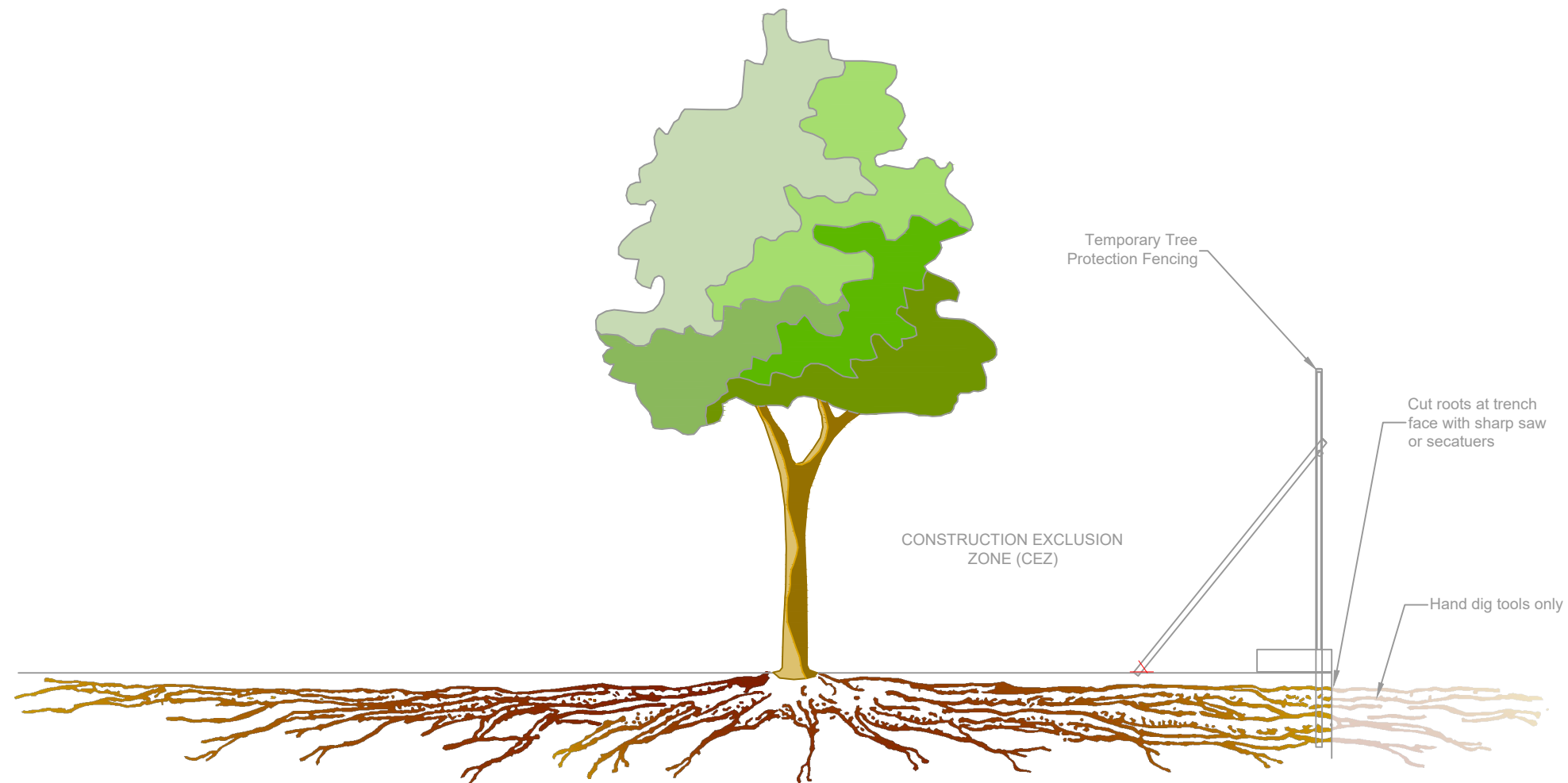
**YOU MAY NOT ENTER THIS AREA
OR USE IT FOR STORAGE**

**YOU MUST NOT MOVE OR DAMAGE
THIS PROTECTION FENCING**

**IF YOU REQUIRE ACCESS
TO THE TREE PROTECTION AREA
PLEASE CONTACT 01925 844004**



Rev	Description	Drawn	Approved	Date
T E P THE ENVIRONMENT PARTNERSHIP Genesis Centre, Birchwood Science Park, Warrington WA3 7BH Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com				
Project				
Title Ground Protection (Ground-Guards) Indicative Specification				
Drawing Number TEP.ARB.GRO.001				
Drawn RMG	Checked TDP	Approved JGS	Scale (not to scale) @ A3	Date 16/09/2019



Rev	Description	Drawn	Approved	Date
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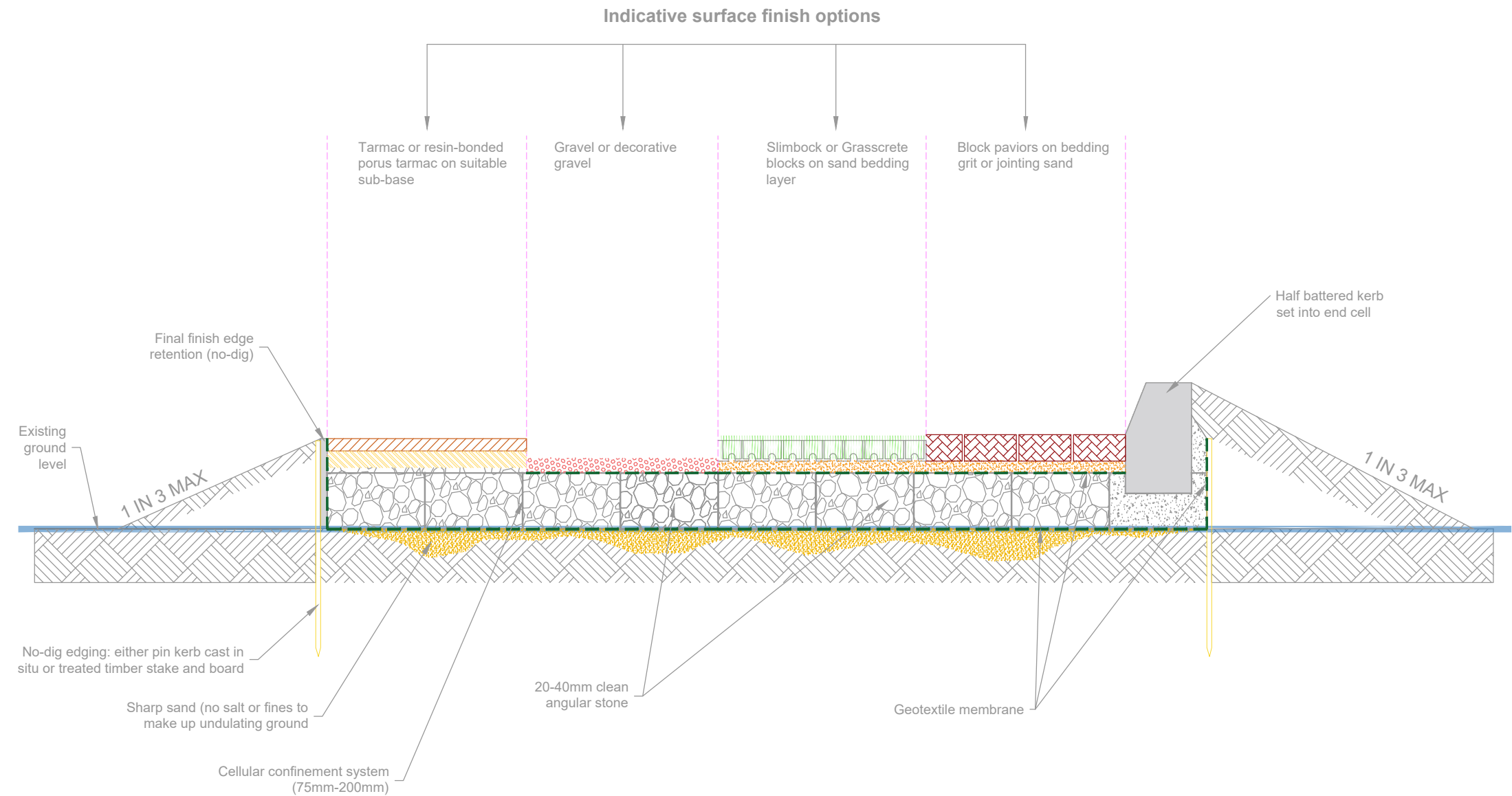
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
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Project

Title
Excavation - Watching Brief Root Pruning

Drawing Number
TEP.ARB.EXC.001

Drawn	Checked	Approved	Scale	Date
RMG	TDP	JGS	Not to scale @ A3	25/07/2019



Installation Notes

1. All surfacing specifications to be verified by an engineer prior to installation
2. A vegetation scrape to a maximum depth of 50mm may be undertaken by a flat toothed bucket.
3. A leveling layer of washed sharp sand (no salt or fines) may be laid as required to a maximum depth of 50mm to make up undulating ground.
4. A geotextile membrane will be laid across the whole footpath area with 300mm dry overlapping joints.
5. A no-dig cellular confinement system (CCS) will be laid across the whole area identified on the plans.
6. Clean angular stone (20-40mm) will be loose tipped onto the CCS and spread to give even coverage. Plant and vehicles will not be permitted to track on exposed ground or empty cells.
7. Aggregate will be settled using a walk-behind vibratory plate compactor.
8. In areas of blockwork, a second layer of geotextile membrane will be laid above the filled cells with 300mm dry overlapping joints. Bedding grit and jointing sand without fines or salt will be used to the architect's specified depth and blocks or pavers will be brush jointed. No wet cementitious products will be used.
9. In areas of hot surface application, the CCS will be overfilled with aggregate by 25mm. Surfacing will be applied directly to the aggregate base according to the manufacturer's instruction and architect's specification. All products will be pervious.
10. Timber board edging will be used where edge restraints are required.
11. New no-dig surfaces will then be tied into existing ground levels.
12. The no-dig cellular confinement system and geotextile membrane should be laid in accordance with the manufacturers' specifications.



Rev	Description	Drawn	Approved	Date
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Project

Title
No-dig CCS Indicative specifications - Combined

Drawing Number
TEP.ARB.CCS.001

Drawn	Checked	Approved	Scale	Date
RMG	TDP	JGS	Not to scale @ A3	08/07/2019



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APPENDIX B: Tree Works Schedule

Feature reference	Tree works to be completed to accommodate development
T9	Crown lift south-eastern canopy to 4m
T10	Crown lift south-eastern and southern canopy to 4m
T11	Remove
T26	Remove
T27	Remove
T28	Remove
T29	Remove
T30	Remove
T38	Remove
T39	Remove
T40	Remove
T44	Crown lift north-western canopy to 4m
T45	Remove
T46	Crown reduce north-western canopy by c. 2m
T49	Remove
T50	Remove
T54	Remove
T55	Remove
T62	Remove
T69	Remove
G5	Partial removal of south-western end of group as per AMS Tree and Hedgerow Works - Sheet 1 (ref: D7137.01.002)
G6	Removal of 2 oak trees to south of group as per AMS Tree and Hedgerow Works - Sheet 1 (ref: D7137.01.002); crown lift south-eastern canopy to 4m
G7	Remove
G8	Remove
G9	Crown lift south-eastern canopy to 4m
G10	Remove
G11	Remove
G12	Remove
G14	Crown reduce northern canopy by c. 1m
G19	Crown reduce western canopy by between c. 0.6m and c. 1.3m
G20	Crown lift 2 eastern compartments to 2.5m as necessary; selective pruning of western compartment to allow for removal of existing fencing and installation of new fencing
G40	Remove
G41	Remove
G43	Partial removal of group as per AMS Tree and Hedgerow Works - Sheet 2 (ref: D7137.01.008)
H1	Minor trimming of hedge to allow for installation of proposed cycle shed 6 (adjacent to proposed plot 26) and acoustic fencing
H8	Remove

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