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Design

# JAMES BLAKE

A S S O C I A T E S

## Arboricultural Method Statement

### Phase 2B

Haverhill, Phases 2-6

On behalf of

**Persimmon Homes Suffolk**

5 July 2021

JBA 18/351 AR05

Over 30 Years of Service, Value and Innovation

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<b>Project</b>	Haverhill, Phases 2-6
<b>Report</b>	Arboricultural Method Statement Phase 2B
<b>Date</b>	5 July 2021
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## 1 SUMMARY

- 1.1 This Arboricultural Method Statement (AMS) has been commissioned by Persimmon Homes Suffolk to ensure retained trees and vegetation are adequately protected during the construction activities of Phase 2B.
- 1.2 This report has been prepared in accordance with British Standard 5837: Trees in relation to design, demolition and construction – Recommendations (2012) and The National Joint Utilities Group (NJUG) Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees Volume 4 Issue 2 (2007). These documents provide best practice advice, assessment and guidance to ensure the protection of trees and significant vegetation on development sites.
- 1.3 In order to successfully work in close proximity to trees, the methods described within this document should only be carried out in conjunction with the direct appointment of a qualified arboricultural consultant. Failure to implement the approved tree protection measures and procedures could lead to enforcement action, the destabilisation of trees and/or the ultimate death of the trees.

### Definitions

- 1.4 Construction Exclusion Zone (CEZ) – a fenced off area based upon the root protection area that is prohibited for the duration of a project (unless subject to supervised works)
- 1.5 Root Protection Area (RPA) – a layout design tool indicating the minimum area around a tree containing sufficient roots to maintain a trees viability.
- 1.6 Supervised works – demolition or construction works that require specific arboricultural advice and supervision to prevent damage from occurring.

### Scope

- 1.7 This method statement addresses the following;
- Tree protection specifications and requirements
  - Supervision requirements

## 2 LIMITATIONS

- 2.1 Trees are dynamic, living organisms whose health and condition can change quickly. Any changes to a tree, or to trees and the land surrounding it, may affect the tree's condition and/or stability. If any such changes occur further examination would be required and may affect the validity of this report.
- 2.2 The survey is not intended to be a detailed tree hazard assessment. Where significant faults that pose an immediate risk to persons or property are observed recommendations will be made; however the lack of any management recommendations within the survey schedule does not infer that a detailed health and safety assessment has been made and it is recommended that a formal management and inspection plan is considered.
- 2.3 The contents of this report are copyright of James Blake Associates and may not be copied without the author's permission. James Blake Associates' Terms and Conditions apply to this report and all associated works in conjunction with this project.

### 3 GENERAL TREE PROTECTION MEASURES

- 3.1 No fires will be permitted within 20m of the crown of any tree.
- 3.2 No alterations in soil levels other than those already agreed, will occur within the Construction Exclusion Zone (CEZ) without prior agreement from the appointed arboricultural consultant.
- 3.3 No materials, vehicles, plant or personnel will be permitted into the CEZ at any time without prior consent from the arboricultural consultant.
- 3.4 Any liquid materials spilled on site will be immediately cleared up and removed from the site. If liquid fuel or cement products are spilled within 2m of the tree protection zone, the contractor will report the incident to the arboricultural consultant immediately.
- 3.5 The contractor will report any damage to trees or shrubs, whether caused by construction activities or from any other cause, to the arboricultural consultant immediately.

## 4 TREE PROTECTION

### Protective fencing specification

- 4.1 Protective fencing will be installed prior to any enabling works, demolition or construction activity commences.
- 4.2 The position of protective fencing is shown on drawings JBA 18/351 TP06 (**pre-commencement**) and JBA 18/351 TP07 (**construction phase**) at Appendix 2.
- 4.3 The protective fencing will be installed initially, as shown on drawing JBA 18/351 TP06, before any works begin.
- 4.4 The fencing will be erected around G43 and H53 to form a 4 metre wide buffer zone.
- 4.5 The ditch west of the offsite vegetation (G48-G52 inclusive) inhibits root growth into the site. This precludes the need for a buffer zone and the fencing will be erected along the western edge of the ditch.
- 4.6 The protective fencing will be repositioned around G43 for the construction of parking spaces to the south and path construction to the east: and around H53 for earthworks to the east and path construction to the west. The fence positions are as shown on drawing JBA 18/351 TP07.
- 4.7 Protective fencing will be constructed of weld mesh panels securely fixed to a static framework fit for the purpose of excluding construction traffic i.e., constructed in accordance with the default specification in Figure 2 of BS5837:2012 and as shown at Appendix 3 of this document.
- 4.8 Alternative specifications to those shown must be agreed prior to installation by the local authority and arboricultural consultant (JBA).
- 4.9 All weather signage will be securely fixed to panels at regular intervals stating the purpose of the fencing and contact details of the arboricultural consultant. A suggested sign can be found at Appendix 4 and may be copied for use on site.
- 4.10 Upon completion of tree protection, the site manager will invite the arboricultural consultant to inspect and sign off the specification and position of all tree protection.
- 4.11 Once installed, protective fencing will remain in position for the duration of the project or until it requires removal to a specified alternative position to allow for works.

## 5 SUPERVISION REQUIREMENTS

- 5.1 The arboricultural consultant will be available for ongoing advice and design input to ensure works close to trees is avoided or correctly specified.
- 5.2 Any works that could impact upon retained trees will be supervised and monitored by the arboricultural consultant (JBA). The supervision visits will occur as follows;
- Pre-commencement site meeting with project manager to discuss tree protection and tree works
  - Inspection of protective fencing at pre-commencement phase
  - Inspection of protective fencing prior to the works near G43 (parking spaces and path construction) and H53 (water attenuation works and path construction), as shown on drawing JBA 18/351 TP07
  - Monthly inspections to monitor location and condition of protective fencing
  - Any works within Construction Exclusion Zones i.e., within tree protection fencing
- 6.3 A site attendance log of the monthly fencing inspections will be maintained by the site manager and be available for inspection by the LPA at 48 hours' notice, should it be required.



## 6 CONSTRUCTION

### Manual excavation within RPAs

- 6.1 All works within Root Protection Areas (RPAs) will be carried out under the direct supervision of the appointed arboricultural consultant (JBA).
- 6.2 No site personnel will enter these areas until a representative from JBA is present.
- 6.3 A section of protective fencing will be temporarily removed to provide access to the required area.
- 6.4 Where necessary, the appointed arboricultural consultant will specify the location of temporary ground protection and the level of protection required.
- 6.5 Excavations will be carried out manually using appropriate hand tools OR using an air lance to expose tree roots.
- 6.6 No machinery will be permitted into the working area unless agreed by the arboricultural consultant.
- 6.7 All excavated spoil will be manually removed from the area or placed on temporary ground protection to be used for back filling upon completion.
- 6.8 All roots in excess of 25mm in diameter and all clumps of fibrous roots greater than 25mm in diameter will be retained and wrapped in dry hessian during the works to prevent desiccation.
- 6.9 Roots less than 25mm may be pruned by the arboricultural consultant where deemed essential to complete works.
- 6.10 Root pruning will only be carried out by the arboricultural consultant, using sharp, sterile tools suitable to the size of the root to be cut. Where possible roots will be pruned cleanly back to a side branch.
- 6.11 Prior to backfilling any hessian wrapping will be removed from retained roots.
- 6.12 The roots will then be surrounded with topsoil, sharp sand (builders' sand will not be used due to its high salt content) or other loose inert granular fill, before soil or other medium is replaced. This material should be uncontaminated and free from injurious objects.
- 6.13 Temporary ground protection will be removed in a backwards direction away from the tree so as always to be positioned on protection and not on unprotected ground.

- 6.14 Once the work area is cleared of ground protection the recently backfilled spoil will be watered and the removed section of protective fencing reinstalled.

## APPENDIX 1: TREE SURVEY SCHEDULE

## Tree Survey Schedule

Site name: Haverhill Phase 2B  
Client: Persimmon Homes Suffolk  
Job Number: 18/351

Survey Date: 13 December 2018  
Surveyor: Simon Smith

Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	Radii Single Stem (m)	RPA (m)
						N	E	S	W							
G43	Common Ash ( <i>Fraxinus excelsior</i> ). Blackthorn ( <i>Prunus spinosa</i> ). Elm ( <i>Ulmus sp.</i> ).	SM	100	4	0	2	2	2	2	Good	Stem diameter estimated. Hedgerow with gaps.	10+	C2	1.2	5	
G48	Field Maple ( <i>Acer campestre</i> ). Elm ( <i>Ulmus sp.</i> ).	SM	300	8	0.5	3	4	3	3	Fair	Unable to fully inspect - vegetation. Stem diameter estimated. Two dead trees in group (elm?).	10+	C2	3.6	41	
G49	Hornbeam ( <i>Carpinus betulus</i> ).	SM	120	6	1	2.5	2.5	2.5	2.5	Good	Unable to fully inspect - ditch. Stem diameter estimated. Typical crown form with no obvious major defects.	10+	C2	1.4	7	
G50	Cherry Laurel ( <i>Prunus laurocerasus</i> ).	M	100	4	0	2	2	2	2	Good	Unable to fully inspect - fence/wall. Stem diameter estimated. Maintained hedgerow.	10+	C2	1.2	5	
G51	Common Ash ( <i>Fraxinus excelsior</i> ). Hornbeam ( <i>Carpinus betulus</i> ). Leyland Cypress (x <i>Cupressocyparis leylandii</i> ).	SM	100	2.5	0.5	1	1	1	1	Good	Unable to fully inspect - fence/wall. Stem diameter estimated. Maintained small groups of conifers interspersed with occasional planted hornbeam and ash.	10+	C2	1.2	5	
G52	Common Hawthorn ( <i>Crataegus monogyna</i> ).	SM	200	4	0.5	2	2	2.5	2	Fair	Unable to fully inspect - fence/wall. Stem diameter estimated. Branch pruning wounds.	10+	C2	2.4	18	
H53	Elm ( <i>Ulmus sp.</i> ). Common Hazel ( <i>Corylus avellana</i> ).	M	100	5	2	2	3.5	2	2	Fair	Stem diameter estimated. Low canopy. Maintained hedgerow.	10+	C2	1.2	5	

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## APPENDIX 2: JBA DRAWINGS

# PHASE 2A

# POS/NEAP

# PHASE 3A

PHASE 3B  
DEVELOPMENT

# SUDS/POS

# PHASE 2B

# ALLOTMENTS

G43: PROTECTION FENCING 4m BUFFER ZONE

## KEY

- Existing Tree or Group colour referenced in accordance with BS 5837:2012 as shown below
- Existing hedge or group colour coded as above in accordance with BS 5837.
- Blue - Category B tree of moderate quality and value.
- Grey - Category C tree of low quality and value.
- Red - Category U tree in irreversible decline or dead.
- Blue - Cat B Groups/hedges of moderate quality and value.
- Grey - Cat C Groups/hedges of low quality and value.
- Red - Cat U Groups/hedges that are dead or showing signs or irreversible decline.
- Root Protection Area as calculated in accordance with BS 5837:2012
- Line of protective fencing to be erected in accordance with BS 5837:2012 to be maintained throughout demolition and construction works.
- Site Boundary.

1. (35x30x1.6m)  
el - 88.262m AOD  
el - 89.862m AOD  
Volume - 1.596m3

POND 1 (dry)  
Bed Level - 89.200m AOD  
Bank Level - 90.900m AOD  
Top Water Level - 90.475m AOD  
Maximum Storage Volume - 1.928m3  
Overall Crs - 7.084m3  
Overall Crs - 7.084m3

Interception storage areas: 300mm maximum depth with 1:4 side slopes additional storage - 128m3

OUTFALL 1 - Phase 2a and 2b  
Maximum outflow rate - 11.7 litres/second for all storms up to and including 100y +40% CC

OUTFALL 2 - Catchment area 2  
Maximum outflow rate - 6.5 litres/second for all storms up to and including 100y +40% CC

0.94 ACRES



GENERAL NOTES  
-DO NOT SCALE OFF THIS DRAWING  
-ALL DIMENSIONS TO BE CHECKED ON SITE  
(C)JAMES BLAKE ASSOCIATES LTD 2021

REV.	DATE	DETAILS	DWG. TITLE
CLIENT	PERSIMON HOMES SUFFOLK		
SITE	HAYSHILL PHASE 2B		
PURPOSE OF ISSUE	TREE PROTECTION PLAN - PRE-COMMENCEMENT		
DRG BY	CHECKED	AUTHD	SCALE
SAS	JBA	JBA	1:500 (B4)
DATE	DWG. NO.	REV.	
12.05.2021	JBA 18/01/1908		

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# PHASE 2A

# POS/NEAP

# PHASE 3A

PHASE 3B  
DEVELOPMENT

# SUDS/POS

# PHASE 2B

# ALLOTMENTS

G43: PROTECTION FENCING 4m BUFFER ZONE

## KEY

- Existing Tree or Group colour referenced in accordance with BS 5837:2012 as shown below
- Existing hedge or group colour coded as above in accordance with BS 5837.
- Blue - Category B tree of moderate quality and value.
- Grey - Category C tree of low quality and value.
- Red - Category U tree in irreversible decline or dead.
- Blue - Cat B Groups/hedges of moderate quality and value.
- Grey - Cat C Groups/hedges of low quality and value.
- Red - Cat U Groups/hedges that are dead or showing signs or irreversible decline.
- Root Protection Area as calculated in accordance with BS 5837:2012
- Line of protective fencing to be erected in accordance with BS 5837:2012 to be maintained throughout demolition and construction works.
- Site Boundary.

1. (35x30x1.6m)  
el - 88.262m AOD  
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Volume - 1.596m3

POND 1 (dry)  
Bed Level - 89.200m AOD  
Bank Level - 90.900m AOD  
Top Water Level - 90.475m AOD  
Maximum Storage Volume - 1.928m3  
Overall Crs - 7.084m3  
Overall Crs - 7.084m3

Interception storage areas: 300mm maximum depth with 1:4 side slopes additional storage - 128m3

OUTFALL 1 - Phase 2a and 2b  
Maximum outflow rate - 11.7 litres/second for all storms up to and including 100y +40% CC

OUTFALL 2 - Catchment area 2  
Maximum outflow rate - 6.5 litres/second for all storms up to and including 100y +40% CC

0.94 ACRES



GENERAL NOTES  
-DO NOT SCALE OFF THIS DRAWING  
-ALL DIMENSIONS TO BE CHECKED ON SITE  
(C)JAMES BLAKE ASSOCIATES LTD 2021

REV.	DATE	DETAILS	DWG. TITLE
CLIENT	PERSIMON HOMES SUFFOLK		
SITE	HAYSHILL PHASE 2B		
PURPOSE OF ISSUE	TREE PROTECTION PLAN - CONSTRUCTION		
DRG BY	CHECKED	AUTHD	SCALE
SAS	JBA	JBA	1:500 (B4)
DATE	DWG. NO.	REV.	
12.05.2021	JBA 18/01 TRP		

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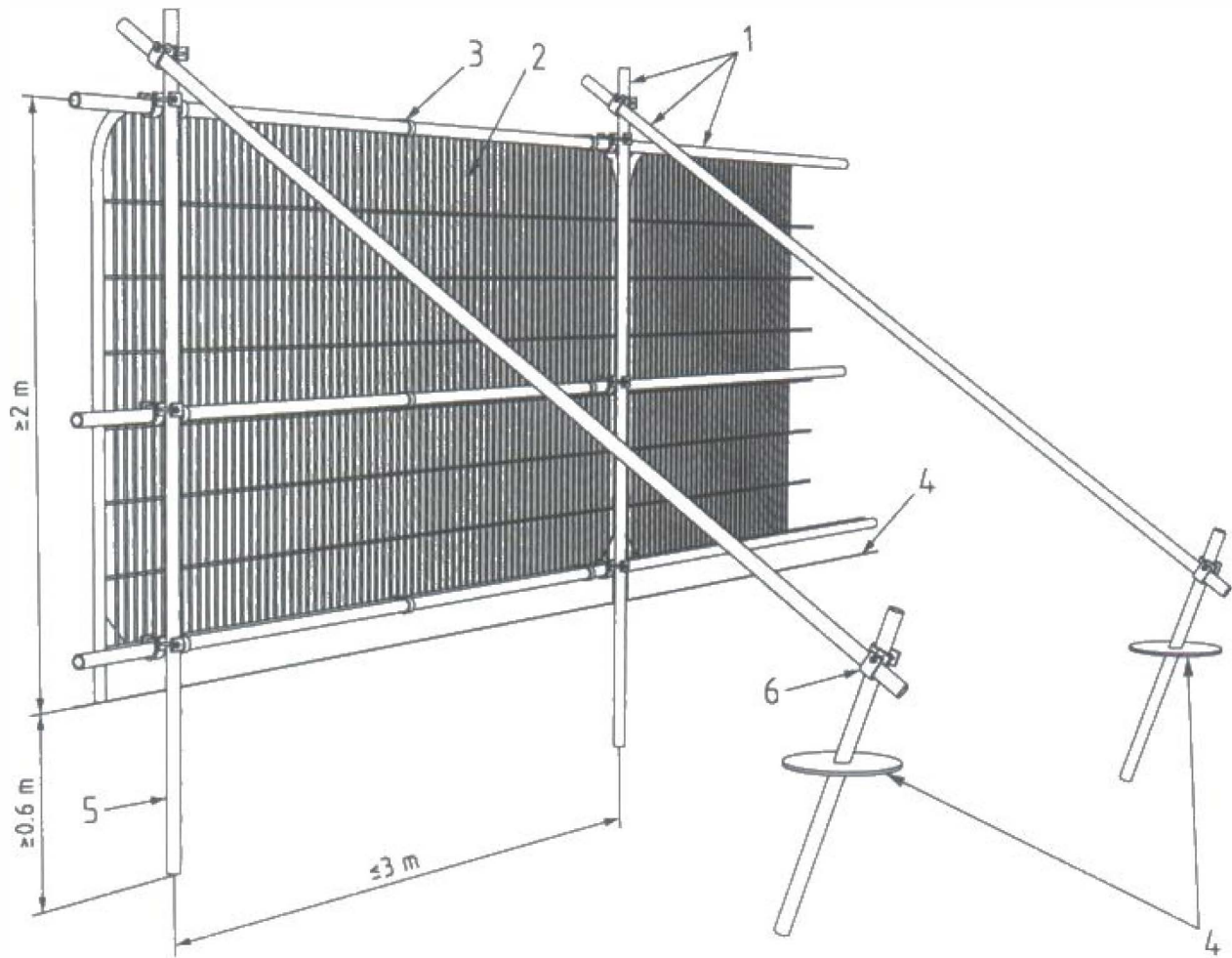
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## APPENDIX 3: PROTECTIVE FENCING SPECIFICATION



Figure 2 Default specification for protective barrier



Key

- 1 Standard scaffold poles
- 2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
- 3 Panels secured to uprights and cross-members with wire ties
- 4 Ground level
- 5 Uprights driven into the ground until secure (minimum depth 0.6 m)
- 6 Standard scaffold clamps

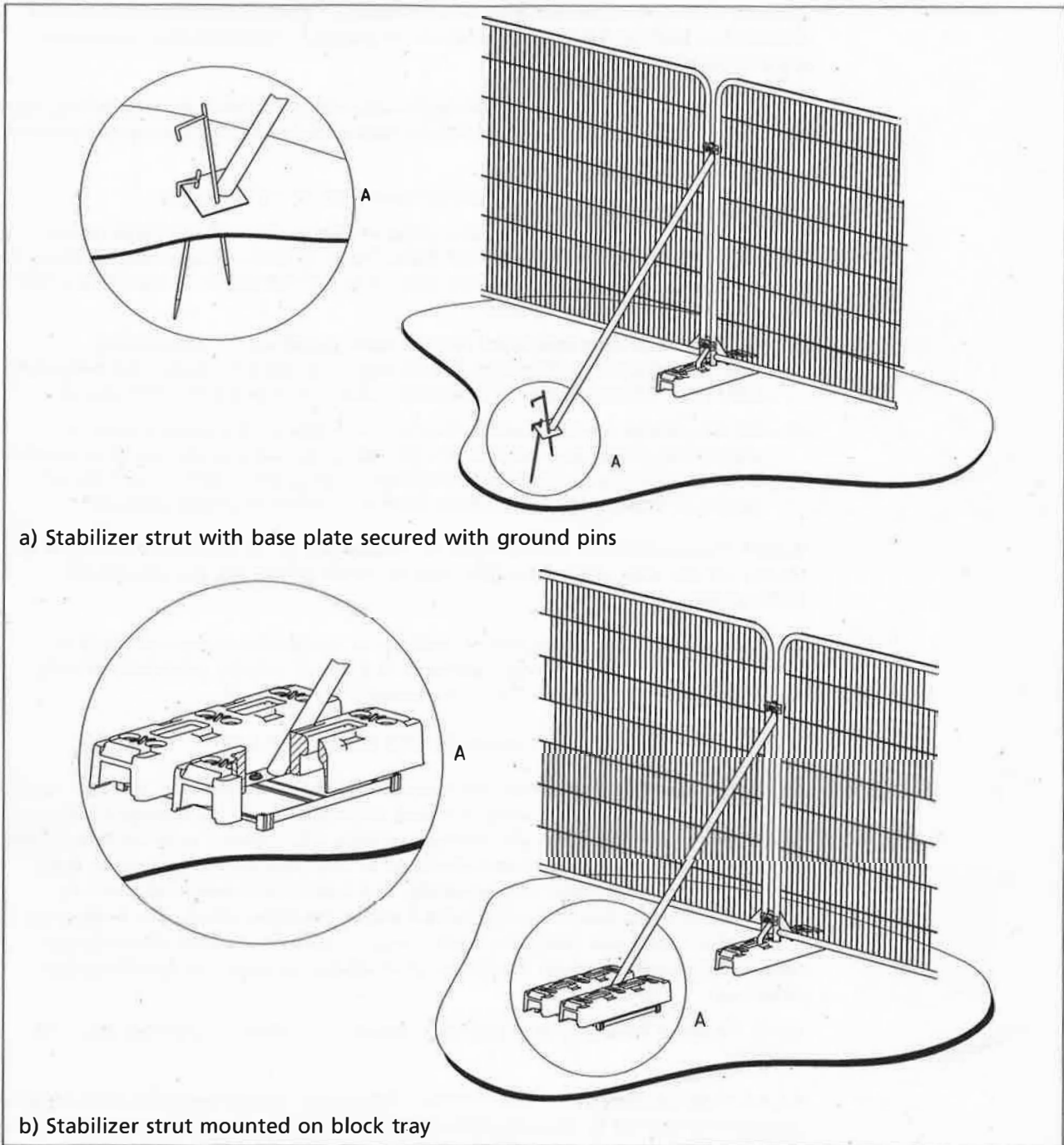
PURPOSE OF ISSUE						TREE PROTECTION IN CN BS5837:2012	
DRG BY	CHECKED	AUTH'D	SCALE	DATE	DWG NO.	REV	
DCG	JBA	JBA	NIS @A4	JUNE 2019	BS5837:2012 - 1		

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Figure 3 Examples of above-ground stabilizing systems



## APPENDIX 4: PROTECTIVE FENCING SIGNAGE



**TREE PROTECTION AREA**  
**KEEP OUT!**

NO WORKS TO BE CARRIED OUT IN THIS AREA WITHOUT PRIOR  
AGREEMENT OF THE LOCAL AUTHORITY OR APPOINTED  
ARBORICULTURAL CONSULTANT

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