TREE CONSULTANTS

# ARBORICULTURAL METHOD STATEMENT

to BS 5837:2012 at:

***Station Road,***
***Darton,***
***Barnsley,***
***South Yorkshire***
***S75 5HW***

This document describes how the trees will be protected and managed during the development of this site. It explains how and when the protection measures must be installed and maintained throughout the development.

A copy of this document report must be permanently available on site for the duration of all development activity and should be referenced for practical guidance on how to protect the retained trees at this site.

Prepared for:
***White Agus Partnership***

Date: *March 2022*

Reference: *AWA4271AMS*

Institute of Chartered Foresters
Registered Consultant

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# 1. Introduction

## 1.1 Instruction

1.1.1 We were instructed by White Agus Partnership to prepare an arboricultural method statement for the proposed development at:

- **Station Road, Darton, Barnsley, South Yorkshire S75 5HW**

## 1.2 Purpose

1.2.1 This method statement has been prepared in order to demonstrate that the development operations at this site can be undertaken with minimal risk of adverse impact on the trees to be retained.

1.2.2 This method statement conforms to BS 5837:2012 *Trees in relation to design, demolition and construction - Recommendations*. It is based on the arboricultural data, collected at a site visit during October 2019, detailed within Appendix 3 of this report.

## 1.3 Description of Development

1.3.1 It is proposed to build a new residential development with associated access, parking, landscaping and facilities.

1.3.2 The proposed development layout has been provided by my client and is the basis for the Tree Protection Plan at Appendix 4.

## 1.4 Details of Consent

1.4.1 Planning consent is subject to this method statement being agreed upon in advance by the Local Planning Authority. The contents of this report must be adhered to, before, during, and after the construction phase.

1.4.2 As such, no equipment, machinery or materials shall be brought onto the site in connection with the development until this arboricultural method statement detailing tree management and tree protection measures has been submitted to and approved by the Local Planning Authority.

# 2. Method Statement Timeline

## 2.1 Overview of Sequence of Operations

2.1.1 In overview, it is necessary to undertake the following sequence of operations in relation to arboricultural input for development operations.

1 Method statement approved by the LPA

2 Undertake tree removals and pruning works

3 Install tree protection fencing

4 Pre commencement meeting/ confirm fencing is as specified

5 Construct new development

6 Remove tree protection fencing

## 2.2 Specific Sequence of Operations

2.2.1 The following timeline table informs the key principles for development operations proceeding in relation to arboricultural requirements conditioned as part of this method statement.

2.2.2 The actions and timescales within this table must be adhered to in order to discharge the arboricultural method statement planning condition for this site.

2.2.3 The precise timing and order of some of the development operations may need to be changed due to site specific operational requirements, yet any operations that may affect the trees on the site must be done so under arboricultural supervision by a suitably qualified person appointed by the contractor.

| Sequence of Operations | | |
|---|---|---|
| ***Stages*** | ***Action*** | ***Arboricultural Input*** |
| **1 Approval** | This AMS is submitted to and approved in writing by the LPA. | If necessary, liaise with contractor and LPA to discuss methodologies detailed. |
| **2 Tree Works** | Tree removals and pruning works shall be carried out as the first operation on site, in accordance with Appendix 3 and as detailed in section 3.1. | Review the tree work requirements with the tree contractor. If necessary, liaise with the contractor on site during tree works. |
| **3 Tree Protection** | Installation of the tree protection fencing will take place as shown at Appendix 4, prior to any storage of plant, materials and machinery. | If necessary, liaise with the contractor installing the tree protection fencing until completed to the standard specified in this method statement. |
| **4 Site Meeting** | Following installation of tree protection fencing, the LPA shall be invited to inspect the fencing and tree works, and discuss any other site operations that have implications for trees. | Meeting with a representative of the LPA and the site manager. Alternatively, contractor can confirm the tree protection fencing and tree works are as specified by taking photographs. |
| **5 Construction** | Undertake the construction of the new development. | If necessary, liaise with the local authority and the site foreman to ensure any issues are adequately resolved. |
| **6 Site Finishing** | Removal of tree protection fencing must only be undertaken when all site traffic and machinery has left the site. | If acceptable to the LPA, the contractor can take photographs of the site to give to the LPA to gain approval for the removal of tree protection fencing. |

# 3. Tree Management

## 3.1 Tree Works

3.1.1 Adjacent retained trees T4, T6 and T9 require pruning works to facilitate the development, reducing and lifting their northern and eastern crowns as required to provide 2m clearance from the new residential properties, pruning to suitable points, not pruning beyond the site boundary.

3.1.2 Elder T10 is recommended for removal regardless of development at the site sue to its poor condition.

3.1.3 All tree work should be carried out according to British Standard 3998:2010 Tree Work - Recommendations.

3.1.4 When appointing a tree surgeon, only properly qualified and experienced companies should be used, who have adequate Public Liability and Employer's Liability Insurance.

# 4. Tree Protection

## 4.1 Tree Protection Fencing

4.1.1 The tree protection fencing for this site should be located as shown on the Tree Protection Plan at Appendix 4 (as illustrated with a thick purple line).

4.1.2 The tree protection fencing will be appropriate to the degree and proximity of likely construction works. In this instance, the default BS 5837:2012 tree protection fencing is deemed disproportionate.

4.1.3 It is suggested (if acceptable by the LPA) an adequate level of protection for the trees could be provided by 'Heras' type fencing, of welded mesh panels on rubber or concrete feet (see Figures 1 and 2 at Appendix 1 for examples).

4.1.4 The fencing should be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence (see Figure 3 at Appendix 1 for an example). The

fencing panels should be supported on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins or mounted on a block tray (see Figure 2 at Appendix 1 for an example).

4.1.5 The area enclosed by the fencing is referred to as the Construction Exclusion Zone (CEZ); this area should be considered a restricted area. No pedestrians, vehicles, storage of materials, equipment or machinery should be allowed within the CEZ unless specified in this method statement. The site manager must ensure that all personnel are aware of the restrictions that apply to the fenced-off area.

4.1.6 Once the fencing is erected, waterproof warning signs labelled 'Tree Protection Area' should be placed at 3m intervals to ensure that all personnel are aware of the restrictions that apply to the fenced-off area (see Figures 4 and 5 at Appendix 1 for example signs).

4.1.7 The tree protection fencing should be inspected for faults or damage by the site manager or other responsible named person on a regular basis and a written record kept. Any faults or defects should be repaired or replaced as soon as is reasonably practicable. The tree protection fencing shall not be removed, breached or altered without prior written authorisation from the local planning authority and under arboricultural supervision by a suitable named responsible individual appointed by the site manager.

## 4.2 New Boundary Fencing

4.2.1 Where new boundary fencing is to be installed within the RPAs of retained trees and tree groups the encroachment into the trees' RPAs should not significantly adversely impact on the health or future condition of the trees, provided posts and panels type footings are used as opposed to strip footings, with the holes for the posts dug by hand, avoiding significant tree roots where possible.

## 4.3 Drainage and Utilities

4.3.1 New drainage and underground utilities should be positioned outside of the RPAs of retained trees, and above ground utilities should ideally be routed away from areas where they are likely to interfere with the retained trees' crowns.

4.3.2 Further guidance is provided in NJUG 10: Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees.

## 4.4 Additional Precautions

4.4.1 Allowance should be made for operations outside of the CEZ that could indirectly impact on trees. Including space for site huts, temporary toilet facilities (including their drainage) and other temporary structures; and space for storing (whether temporary or long-term) materials.

4.4.2 Care must be taken to prevent contamination with chemical spillages, including petrol, diesel and oils. Cement mixers and any other toxic materials should not be permitted within the RPA of the trees. Any materials whose accidental spillage would cause damage to a tree should be stored and handled well away from the outer edge of its RPA.

4.4.3 Fires on the site should be avoided if possible. Where they are unavoidable, and approved by the Local environmental health authority, they should not be lit in a position where heat could affect foliage or branches. The potential size of a fire and the wind direction should be considered when determining its location, and it should be attended always until safe enough to leave.

## 4.5 Post Construction Landscaping

4.5.1 Many of the trees on site may be subject to some form of landscaping or seeding beneath their canopies after the development phase. At this stage the protective fencing will have been removed and the property may be occupied.

4.5.2 Landscaping works should be carried out in such a way as to avoid ground level changes or deep digging. Tractor mounted rotovation or other mechanised cultivation methods must not be used.

4.5.3 No heavy machinery should be brought into the vicinity of retained trees.

4.5.4 Herbicides should be appropriate for the purpose and should not be used in such a way as to damage any retained trees or vegetation.

# 5. Signature

I trust this report provides all the required information.

Signed



.....

**Adam Winson**
*Chartered Arboriculturist, MSc, BSc (Hons), MICFor, AIEEM.*

**30th March 2022**

**AWA Tree Consultants Limited**
**Union Forge**
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# Appendix 1: Images and Figures

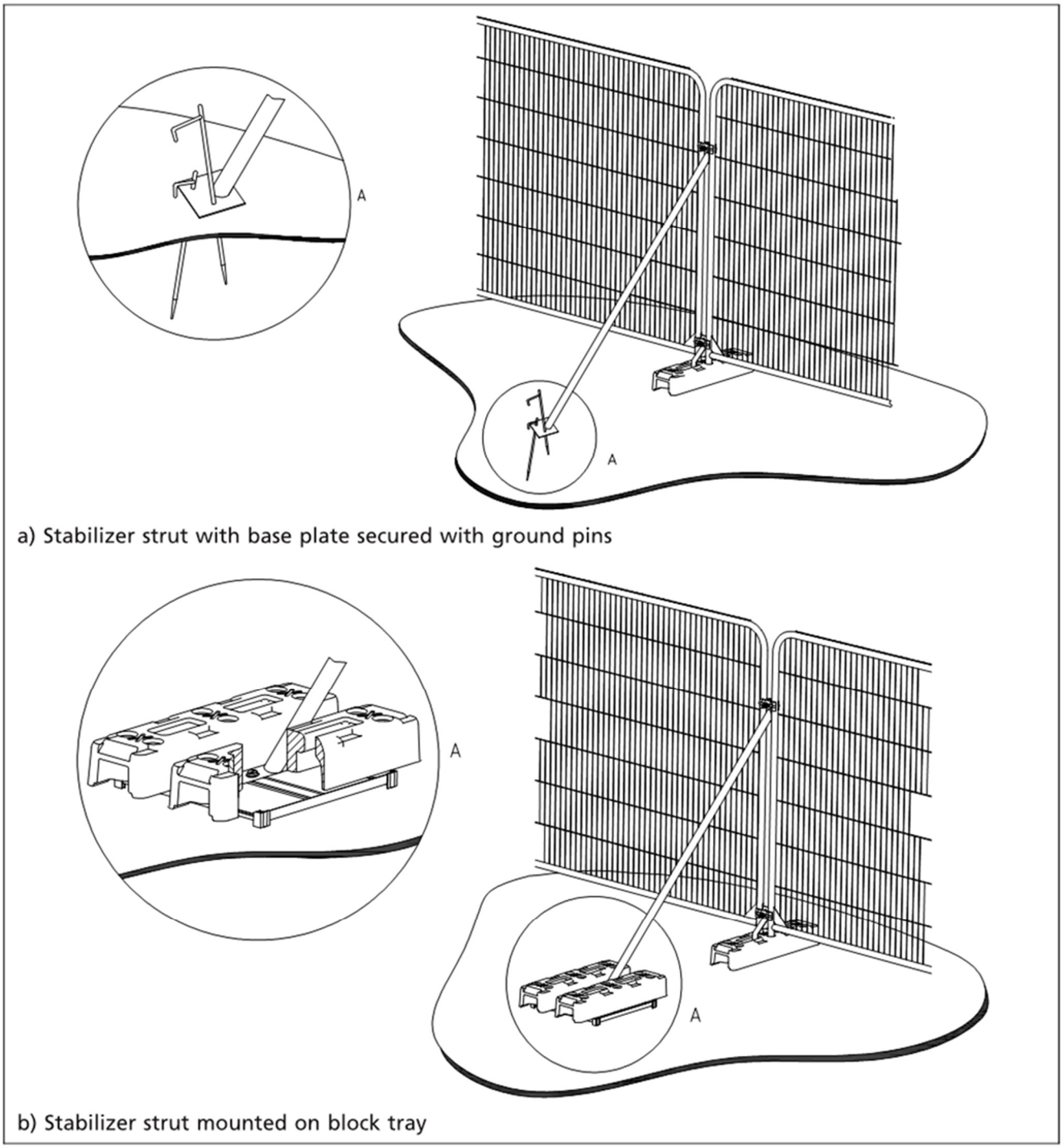



Figure 1: Secured 'Heras' type fencing with stabilizing system and fixed central pins (©BSI)



Figure 2: Secured 'Heras' type fencing with stabilizing system and anti-tamper couplers



Figure 3: Anti-tamper couplers to secure fencing and avoid unauthorised access




Figure 4: Warning sign for fencing




Figure 5: Example of A3 correx tree protection warning sign fixed to fencing panel



Figure 6: Interlinked ground protection boards placed on top woodchip

# Appendix 2: Relevant Contact Details

| Contact Name | Organisation/ Details | Contact Number | Contact E-mail |
|---|---|---|---|
| Robert Agus | White Agus Partnership | 01226 208 482 | robert@whiteaguspartnership.co.uk |
| Adam Winson | AWA Tree Consultants Ltd | 0114 272 1124 | adam@awatrees.com |
| Edward Jowett | Barnsley Tree Officer Development Management | 01226 772 557 | edwardjowett@barnsley.gov.uk |

| | Tree Species | | | Measurements | | | | Crown (m) | | | | | Tree Condition | | | | | | Value | | Management |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Tree ID* | *Common Name* | *Latin Name* | *Maturity* | *Height (m)* | *Stems* | *Stem Diameter (mm)* | *Estimated* | *Ave Height* | *N* | *E* | *S* | *W* | *Roots* | *Stem* | *Crown* | *Comments* | *Physiological* | *Structural* | *Life Expectancy* | *Amenity* | *Category* | *Works* |
| T1 | Ash | *Fraxinus excelsior* | Young | 6 | 2 | 70, 60 | Yes | 2 | 1.5 | 1.5 | 1.5 | 1.5 | Limited access around base | Twin stemmed at base. Vertical | Normal | Situated on adjacent railway banking. No access. | Good | Good | 20 to 40 yrs | Low | **C** | No works required |
| T2 | Ash | *Fraxinus excelsior* | Young | 7 | 2 | 120, 150 | Yes | 1 | 3.5 | 1.5 | 1.5 | 2 | Limited access around base. Soil erosion. Exposed roots | Twin stemmed at base. Vertical. Tight unions | Normal | Situated on adjacent railway banking. No access. | Good | Fair | 20 to 40 yrs | Low | **C** | No works required |
| T3 | Ash | *Fraxinus excelsior* | Young | 7 | 1 | 100 | Yes | 1 | 2.5 | 3 | 2.5 | 0.5 | Limited access around base | Single stemmed. Slight lean east | Normal | Situated on adjacent railway banking. No access. | Good | Fair | 20 to 40 yrs | Low | **C** | No works required |
| T4 | Ash | *Fraxinus excelsior* | Semi-mature | 16 | 8 | 200 | Yes | 1.5 | 7 | 8.5 | 8 | 7 | Limited access around base | Multiple stemmed at base. Vertical. Tight unions | Minor deadwood. Overhanging site | Situated on adjacent railway banking. No access. Crown overhangs into site. | Good | Fair | >40 yrs | Moderate | **C** | Pruning works required to facilitate development - Reduce and lift northern and eastern crown as required to provide 2m clearance from new residential property - Do not prune beyond site boundary |
| T5 | Apple | *Malus sp.* | Early-mature | 8 | 1 | 250 | Yes | 2.5 | 5.5 | 3 | 2.5 | 3.5 | Limited access around base | Single stemmed. Vertical. Ivy covered. Tight unions. Stubs | Minor dieback. Moderate deadwood | Situated on adjacent railway banking. No access. Very Ivy covered. | Fair | Fair | 20 to 40 yrs | Moderate | **C** | No works required |

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| | Tree Species | | | Measurements | | | | Crown (m) | | | | | Tree Condition | | | | | | | Value | | Management |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Tree ID* | *Common Name* | *Latin Name* | *Maturity* | *Height (m)* | *Stems* | *Stem Diameter (mm)* | *Estimated* | *Ave Height* | *N* | *E* | *S* | *W* | *Roots* | *Stem* | *Crown* | *Comments* | *Physiological* | *Structural* | *Life Expectancy* | *Amenity* | *Category* | *Works* |
| T6 | Cherry | *Prunus sp.* | Early-mature | 12 | 1 | 420 | No | 1.5 | 5.5 | 6.5 | 3.5 | 3 | No visual defects | Single stemmed. Significant lean east. Stubs | Old pruning wounds. Minor deadwood | Previous minor reduction works to crown. Two co-dominant stems at 3m. | Good | Fair | >40 yrs | Moderate | **C** | Pruning works required to facilitate development - Reduce and lift northern and eastern and east as required to provide 2m clearance from new residential property - Do not prune beyond site boundary |
| G7 | Ash | *Fraxinus excelsior* | Semi-mature | 15 | 7 | 150 | Yes | 1 | 5 | 6.5 | 3 | 3 | Limited access around base | Multiple stemmed at base. Vertical. Slight lean. Stubs. Bark damage. Tight unions. Ivy covered | Moderate dieback. Minor deadwood. Overhanging site | Situated on adjacent railway banking. No access. Two trees forming one crown. Crown overhangs into site. | Fair | Fair | 20 to 40 yrs | Moderate | **C** | No works required |
| G8 | Ash | *Fraxinus excelsior* | Semi-mature | 16 | 10+ | 150 | Yes | 1 | 4 | 9 | 7 | 4 | Limited access around base | Multiple stemmed at base. Vertical. Bark damage. Stubs. Tight unions | Minor dieback. Minor deadwood. Overhanging site | Situated on adjacent railway banking. No access. Several trees forming one crown. Crown overhangs into site. | Fair | Fair | 20 to 40 yrs | Moderate | **C** | No works required |

| | Tree Species | | | Measurements | | | | Crown (m) | | | | | Tree Condition | | | | | | | Value | | Management |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Tree ID* | *Common Name* | *Latin Name* | *Maturity* | *Height (m)* | *Stems* | *Stem Diameter (mm)* | *Estimated* | *Ave Height* | *N* | *E* | *S* | *W* | *Roots* | *Stem* | *Crown* | *Comments* | *Physiological* | *Structural* | *Life Expectancy* | *Amenity* | *Category* | *Works* |
| T9 | Ash | *Fraxinus excelsior* | Semi-mature | 10 | 3 | 100, 150, 120 | Yes | 2 | 4.5 | 4 | 3 | 2 | Limited access around base | Multiple stemmed at base. Slight lean east. Stubs | Minor dieback. Minor deadwood. Overhanging site | Situated on adjacent railway banking. No access. Crown overhangs into site. | Fair | Fair | 10 to 20 yrs | Low | **C** | Pruning works required to facilitate development - Reduce and lift northern and eastern crown as required to provide 2m clearance from new residential property - Do not prune beyond site boundary |
| T10 | Elder | *Sambucus nigra* | Semi-mature | 5 | 6 | 50 | No | 0.5 | 2.5 | 3.5 | 1.5 | 0.5 | No visual defects | Multiple stemmed at base. Significant lean east. Stubs. Bark damage. Minor cavities. Minor decay | Moderate dieback. Minor deadwood. Snapped/ hanging branches | Extensive bark damage to main stems and deadwood in crown | Poor | Poor | <10 yrs | Low | **U** | Removal recommended regardless of development |
| T11 | Ash | *Fraxinus excelsior* | Semi-mature | 10 | 4 | 150, 120, 70, 50 | Yes | 2 | 2 | 2.5 | 2.5 | 2.5 | Limited access around base | Multiple stemmed at base. Vertical. Old pruning wounds. Stubs. Bark damage. Minor cavities. Minor decay | Previously topped with regrowth forming crown | Situated on adjacent railway banking. Limited access. Regrowth from stump topped at 1m. | Fair | Poor | 10 to 20 yrs | Low | **C** | No works required |
| T12 | Ash | *Fraxinus excelsior* | Semi-mature | 12 | 10+ | 150 | Yes | 3.5 | 5 | 5 | 5 | 5 | Limited access around base. Soil erosion. Exposed roots | Multiple stemmed at base. Stubs. Old pruning wounds | Minor dieback. Minor deadwood. Overhanging site | Situated on adjacent railway banking. Limited access. Crown overhangs into site. | Fair | Fair | 10 to 20 yrs | Low | **C** | No works required |

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| | Tree Species | | | Measurements | | | | Crown (m) | | | | | Tree Condition | | | | | | | Value | | Management |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Tree ID* | *Common Name* | *Latin Name* | *Maturity* | *Height (m)* | *Stems* | *Stem Diameter (mm)* | *Estimated* | *Ave Height* | *N* | *E* | *S* | *W* | *Roots* | *Stem* | *Crown* | *Comments* | *Physiological* | *Structural* | *Life Expectancy* | *Amenity* | *Category* | *Works* |
| T13 | Willow | *Salix caprea* | Semi-mature | 10 | 10+ | 60 | Yes | 1.5 | 3 | 3 | 3 | 3 | Limited access around base | Multiple stemmed at base. Vertical | Minor dieback. Minor deadwood. Overhanging site | Situated on adjacent railway banking. Limited access. Crown overhangs into site. | Fair | Fair | 10 to 20 yrs | Low | **C** | No works required |

Reduce and lift northern and eastern crowns of retained adjacent trees T4, T6 and T9 to provide 2m clearance from new residential properties
Prune to suitable points
Do not prune beyond site boundary

T10 recommended for removal regardless of development

Existing boundary walls protect retained trees T11, T12 and T13

Existing boundary fences protect retained adjacent trees T1, T2 and T3, T5, G7, T8 and T9

Bridge St

Station Rd

Dearne St

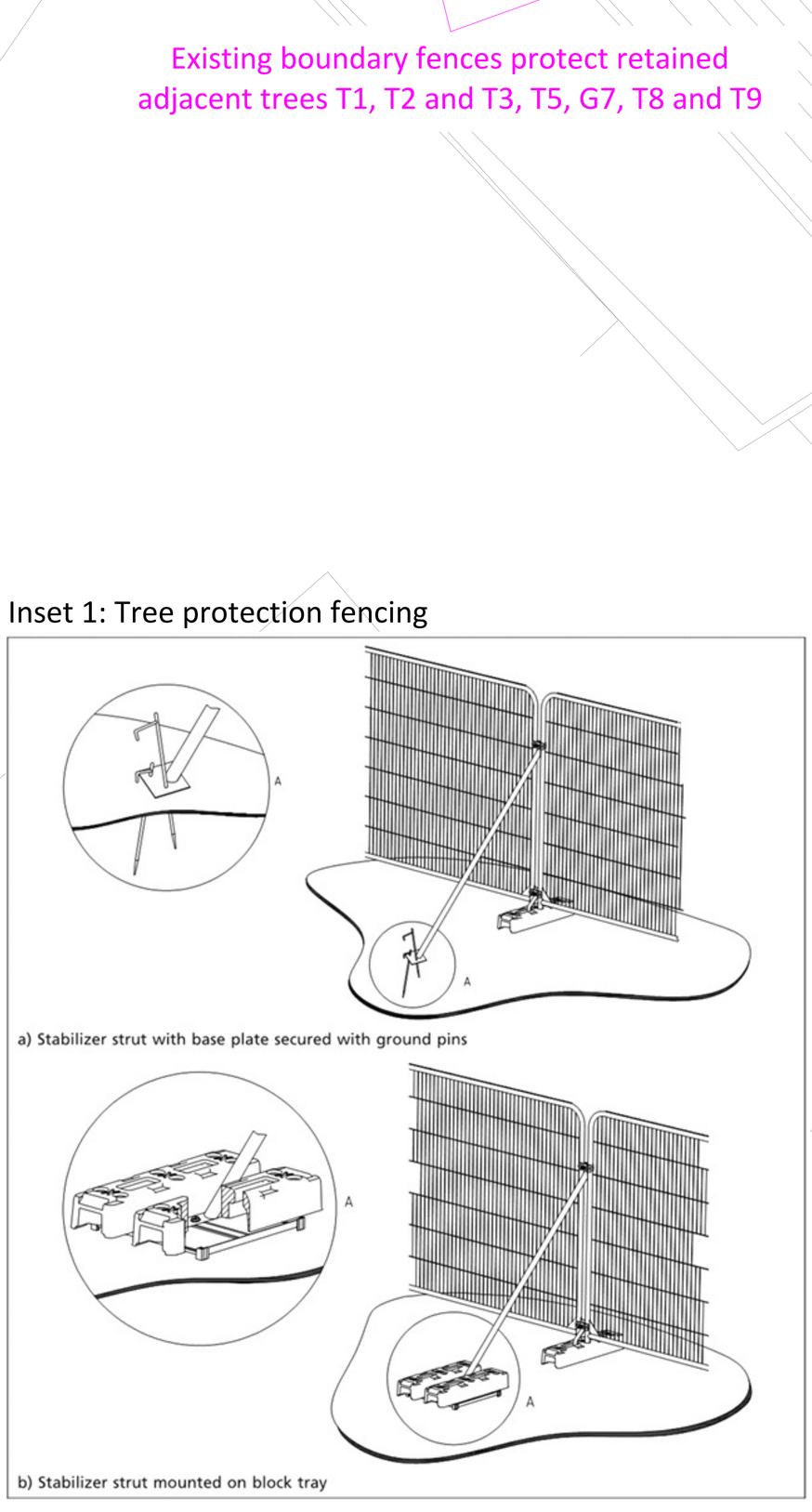
Area 78m
Area 99m
Area 64m
Area 144m
Area 63m
Area 64m
Area 84m
Area 237m
Area 332m

T1
T2
T3
T4
T5
T6
G7
G8
T9
T10
T11
T12
T13

Adjacent trees on railway banking
Adjacent dead Elder
Cherry saplings
Ash saplings
Ash and Sycamore saplings
Sycamore sapling
Goat Willow sapling
Ash sapling
Elder saplings
Adjacent Ash saplings
Adjacent Sycamore sapling

LPO

## Inset 1: Tree protection fencing




## Inset 2: Warning sign for tree protection fencing







NORTH

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# Appendix 4: Tree Protection Plan

Station Road, Darton, Barnsley
Ref: AWA4271AMS

BRITISH STANDARD 5837:2012

SCALE: 1:200 PAPER: A1

| | |
|---|---|
| | TREE/ TREE GROUP/ HEDGE TO BE RETAINED |
| | TREE/ TREE GROUP/ HEDGE TO BE REMOVED |
| | TREE STEM |
| | RPA: ROOT PROTECTION AREA |
| | TREE PROTECTION FENCING |