

ARBORICULTURAL METHOD STATEMENT

Arboricultural Method Statement and Protection Plan

(in accordance with BS 5837:2012 - *Trees in relation to design, demolition and construction – Recommendations*)

Site: **land at Broughton Saw Mill, Ermine Street, Broughton, Brigg, DN20 0AJ**

Prepared for: **John Holmes / Lewis Holmes**

Date: **2nd February 2024**

Reference: QU-939-24-EQUANS

Surveyor/Report Author: **Andrew Hudson** ND Btec Forestry/Arb / TechArborA
Senior Arboricultural Consultant



andrew.hudson@equans.com / 07979 303 536 / dina.mysko@equans.com / 07971 804 783

EQUANS - Arboricultural Consultancy, New Oxford House, 2 George Street, Grimsby, North East Lincolnshire, DN31 1HB

Registered in England and Wales. Registered No: 00598379. Registered Office: Q3 Quorum Business Park, Benton Lane, Newcastle Upon Tyne NE12 8EX

Client Details: **NRH Contractors**

4, The Blackthorns
Broughton
Brigg
DN20 0BB

John Holmes / Lewis Holmes

Email: john@nrhcontractors.co.uk

Tel: 01652 658595

Mob: 07831 168095

Agent Details: **Flynn Architecture Ltd**

Tower Barn,
Archer Street,
Bishop Norton,
Lincolnshire,
LN8 2BG

Martin Fynn

Email: martinflynndesign@gmail.com

Tel: 01673 818929

Mob: 07894 511929



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APPENDICES

Appendix "A" **Tree Protection Plan**

Note: A copy of this method statement must be permanently available on site for the duration of development activity

1.0 INTRODUCTION

1.1 The purpose of this method statement is to evaluate the direct and indirect effects of the proposed design/layout and to ensure good practise in the protection of trees during the construction of this development.

1.2 Equans Arboricultural Consultancy has been instructed to prepare this Arboricultural Method Statement and Protection Plan for this proposed development, based on the recommendations and guidance outlined within the BS 5837:2012 '*Trees in relation to design, demolition and construction – Recommendations*'.

1.3 This method statement should be included as part of the specification and schedule of works and issued to all relevant parties including the building contractor and sub-contractors.

1.4 *Scope of Recommendations and Techniques*

An arboricultural consultant should be appointed by the developer for advice on the tree management for the site and to attend meetings, as set out within this method statement.

1.5 *Description of Development*

It is proposed to develop this site with development of a single detached residential dwelling with associated infrastructure and amenity garden space.

1.6 *Site Description*

The site is located within the village of Broughton. Broughton is a small town and civil parish situated on Ermine Street, in the North Lincolnshire district of Lincolnshire, and is situated approximately 2 miles (3 km) north-west from the town of Brigg. Situated on the western fringes of the town, the sites development 'red edge' is located within the grounds of an existing and established commercial business, known as NRH Contractors, Holmes Forestry. Holmes Forestry is a family run business, established under the current owners since 1999. It is proposed to re-develop part of this site utilising a small area of the existing commercial premises in order to introduce a residential dwelling for the purpose of continually monitoring business activities. Currently the sites 'red edge' forms part of the existing business activities, with a large barn storage facility and fire wood kiln drying containers as well as other out buildings and infrastructure. There is a large area for storing timber and split logs as well as numerous pieces of related equipment, machinery, and materials.



1.7 Site Description (cont.)

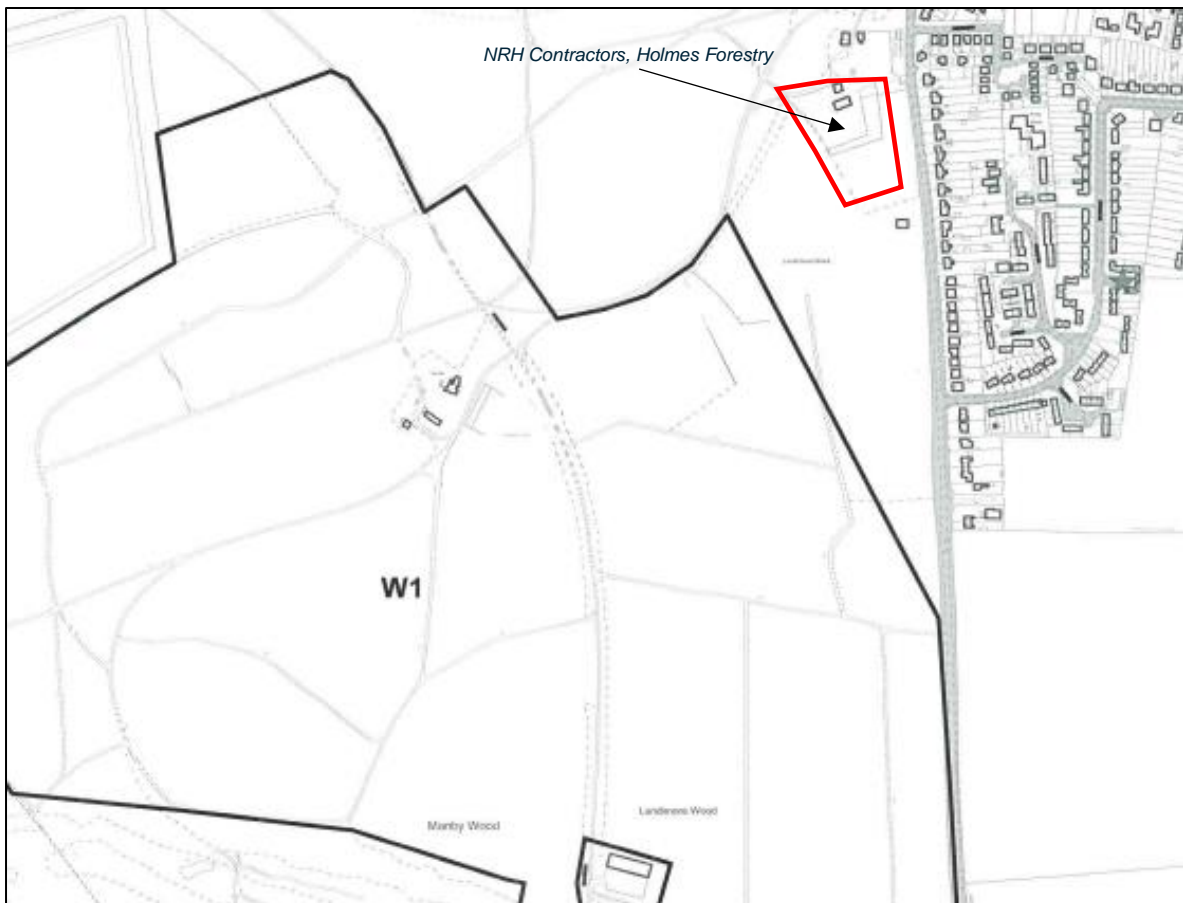
The principal area for the existing business activities extends to around 1.5 acres. The proposed 'red edge' development area within, extends to around 1205sq m. The surrounding land use is mainly woodland, extensive woodland that extends towards Dragonby, Scunthorpe and Appleby. The site is located just off Ermine Street to the west. To the east of Ermine Street are the residential dwellings of Broughton Town.



2.0 STATUS OF THE SITE

The Local Planning Authority (LPA) is North Lincolnshire Council. Using the Councils on-line interactive mapping system it was confirmed on the 29th of January 2024, that trees within the site are not afforded the protection of a Tree Preservation Order. Lundimore Wood however, adjacent to the site, is afforded the protection of a Tree Preservation Order. It has also been confirmed that the site and land adjacent is not within a Conservation Area.

Order Title: North Lincolnshire Borough Council Tree Preservation Order (Gadbury Wood, Lundimore Wood & Rose Cottage) Order 2017



Snip Shot: North East Lincolnshire Council formal Tree Preservation Order Model Document

Woodlands

(within a continuous black line on the map)

Reference on map	Description
W1	Mixed deciduous and conifer trees

Note: Any works to protected trees outside of planning permission will need permission from the LPA

Note: The tree numbers as described above are specifically in association with the TPO maps and schedules and bear no relevance to the BS 5837 survey/schedule



2.1 **Status of Site (cont.)**

According to the Natural England Open Data Geoportal the land adjacent to the site is classified as ancient woodland, Gadbury and Lundimore Woods and Far Wood.



Map data: snip shot – Natural England – Open Government Licence



3.0 ARBORICULTURAL METHOD STATEMENT (AMS)

3.1 Pre-Development Tree Work

Prior to any construction activity taking place the recommended tree works should be completed.

3.2 Specification of Tree Works

In accordance with the final design/layout tree works are required, as specified, to facilitate development (see '3.3 – 'Schedule of Tree Works' below and Appendix "A" - 'Tree Retention and Removal Plan' of the Arboricultural Impact Assessment (AIA). Reference should also be made to the details within the original formal Arboricultural Report and the AIA.

3.3 Schedule of Tree Works

KEY	
	Tree to be removed
	Tree identified for remedial work
	No work recommended

Individual Trees:	
T1	Clean out by removing any dead, dying, diseased or damaged branches. Re-inspect in June 2024 when crown is in full leaf. Monitor on a yearly basis.
T2	Sever ivy at base and remove first 6m. Re-inspect following ivy management.
T3	No work recommended.
T4	No work recommended.
Groups of Trees:	
G1	No work recommended.
G2	No work recommended.

Note: Competent contractors must be appointed. All works should be carried out in accordance with the BS 3998:2010 Tree Work – Recommendations

Note: All tree works must be completed to the satisfaction of the Local Authority Tree Officer before any other works begin



3.4 **Arboricultural Supervision (Pre-Commencement of Development)**

A pre-commencement meeting should be held on site before any site clearance, ground works and construction work begins. This would normally be attended by the site manager, the arboricultural consultant, and a local authority (“LA”) representative, preferably the Local Authority Tree Officer. In the event that an LA representative declines to be present, the arboricultural consultant should inform the LA in writing of the details of the meeting. This meeting should include the following:

- Inspection of pre-development tree works to ensure works have been carried out in accordance with the approved specification of works and has been carried out to the correct standards, i.e., BS 3998:2010 ‘*Tree work – Recommendations*’.
- Any additional tree works expected outside of the approved specification of works will be agreed and recorded.
- All protection measures detailed in this method statement should be fully discussed so that all aspects of implementation and sequencing are understood by all the parties.
- Any specialist engineered methods should be fully discussed so that all aspects of implementation and sequencing are understood by all the parties.
- The details of the programme of protection and no-dig solution, if required, should be agreed and finalised.
- Any site supervision arrangements between the arboricultural consultant and developer should be agreed and finalised. Including any site visits deemed necessary, by a local authority (“LA”) representative.



4.0 *INSTALLATION OF SERVICES*

When considering development for this site the installation of services must be kept as far as practically possible from the root protection area (RPA) of any retained trees.

4.1 Trenching near trees by conventional means, using a mechanical excavator, inevitably causes root loss, as the bucket easily rips through roots. For services such as foul, surface, electric, gas, BT etc., the most practical solution would be to run all services through one trench. Where encroachment into the RPA cannot be avoided trench-less techniques should be adopted. An alternative would be to hand dig a trench minimising the cutting of roots. Pipes and ducted cables can then be thread through enabling installation with very little damage, provided that the borehole is small and deeper than the main lateral roots.

4.2 In the UK, the usual guidelines for trenching by utility companies are provided by NJUG 10, which is available to download at www.njug.org.uk/publications.html. By agreeing to the guidelines to be followed during trenching, all parties are assured that problems can be solved using a common set of criteria. Supervisors from the appointed contractor should direct operatives to follow the agreed practices and it is quite likely that the Local Authority Tree Officer will monitor for compliance.

5.0 **INSTALLATION OF PROTECTION MEASURES**

Trees will be protected by barriers as described in appendix "A". The positioning of protective measures is also shown in appendix "A". The barriers will form an exclusion zone that will be regarded as sacrosanct. Vertical barriers will be installed as soon as the pre-development tree work is complete. Once erected the barriers should be regarded as sacrosanct and should not be removed or altered without approval from the LPA. This should be installed as soon as the pre-development tree work is complete.

5.1 The barriers should be fit for the purpose of excluding all construction activity. For this site the barrier should consist of 2m tall, welded mesh panels on rubber or concrete feet joined together using a minimum of two anti-tamper couplers, installed so they can only be removed from inside the fence. The panels should be supported on the inner side by stabiliser struts, which would normally be attached to a base plate secured with ground pins (see Appendix "A"). All weather notices should be securely attached to the barrier with words such as "*Construction Exclusion Zone – KEEP OUT! Removing or moving these barriers may result in a breach of planning conditions*".

5.2 The primary concern for the protection of trees on this site is to protect, improve and maintain the micro-environment/root system and protect against physical damage.

5.3 **Arboricultural Inspection** (*Protection Measures*)

Once the protective barriers have been installed, prior to any other works taking place on site, all tree protective measures will be checked and approved in writing by the appointed arboricultural consultant and/or the Local Authority Tree Officer. Arrangements will be made at a convenient time for the arboricultural consultant and/or Local Authority Tree Officer to carry out an inspection of the site.



5.4 *Detail for Specification of Protective Barrier*

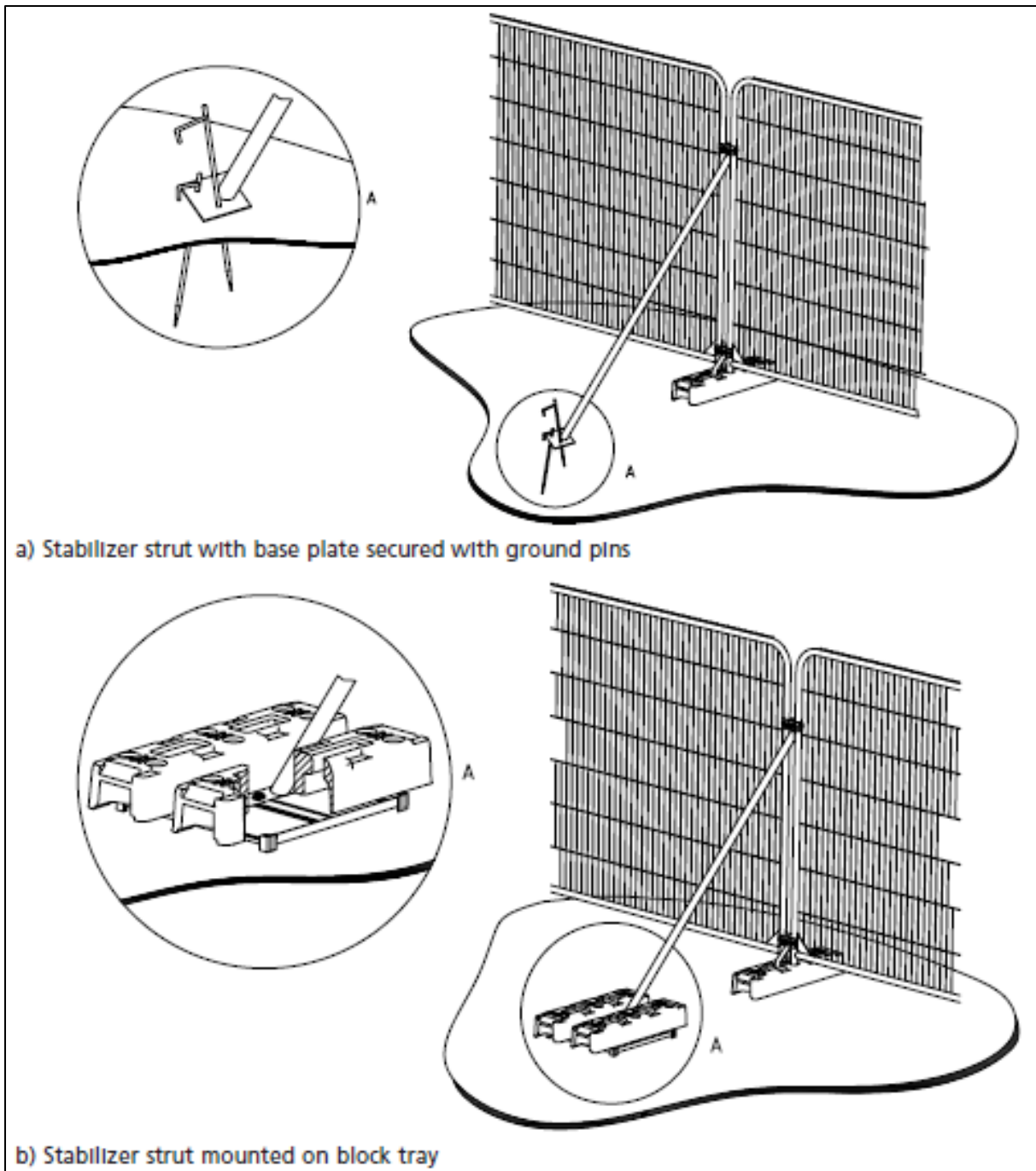


Image source: © The British Standards Institution - *BS 5837:2012 Trees in relation to design, demolition, and construction – Recommendations* – alternative specification for protective barrier



6.0 CONSTRUCTION PHASE

Prior to works starting all site personnel including sub-contractors should be inducted in the requirements expected in order to ensure the future health of trees.

6.1 **Main Site Construction Works**

Begin the main site works for the construction of the single detached residential dwelling with associated infrastructure and amenity garden space. The protection measures will preserve existing ground conditions, as detailed in the Protection Plan (see Appendix "A"). The protective fencing should only be removed once all the construction works are complete.

6.2 **Construction Phase Complete**

Once all construction activity has finished on site the protective fencing can be removed. Any post development landscape finishes should take into account existing trees and any deep cultivation within the RPA of the trees should be avoided.

6.3 **Snagging**

During construction activities, should there be a need for any variations to the scheme of tree protection and/or methods and techniques, whether planned or reactive, these variations shall be agreed in writing by the Local Authority Tree Officer.

6.4 During construction activities, in the event of incidents likely to result in the loss of trees that are to be retained then the site manager shall notify the appointed Arboricultural Consultant and LPA Tree Officer of the incident within 48 hours.

6.5 The protective measures will seal off the exclusion zone and preserve the existing ground conditions, as detailed in the Protection Plan (Appendix "A"). The protection measures should only be removed once all construction activities are complete.



7.0 KEY PERSONNEL

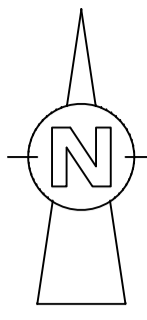
A list of the known contact details of the relevant parties is as follows:

Role	Name	Company
Client	NRH Contractors John Holmes / Lewis Holmes	NRH Contractors 4, The Blackthorns Broughton Brigg DN20 0BB Email: john@nrhcontractors.co.uk Tel: 01652 658595 Mob: 07831 168095
Agent	Flynn Architecture Ltd Martin Fynn	Flynn Architecture Ltd Tower Barn, Archer Street, Bishop Norton, Lincolnshire, LN8 2BG Email: martinflynndesign@googlemail.com Tel: 01673 818929 Mob: 07894 511929
Arboricultural Consultant	Andrew Hudson	Equans Arboricultural Consultancy New Oxford House 2 George Street Grimsby North East Lincolnshire DN31 1HB Mob. +44 (0) 07919 304 536 Email: andrew.hudson@engie.com
Tree Officer – Local Authority North Lincolnshire Borough Council	North Lincolnshire Council	North Lincolnshire Council Environment Officer (Trees and Landscape) Transport, Highways and Environment Directorate of Operations North Lincolnshire Council. 01724 297000 Email: planning@northlincs.gov.uk



8.0 SUMMARY AND PHASING OF WORK

Phased Project Management of Tree Issues Throughout Construction	
Action	Summary of Detail
<p>Pre-Development Tree Work – Prior to any construction activity taking place the recommended tree work should take place</p>	As specified within this Arboricultural Method Statement - 'Schedule of Tree Work' pg. 8 (3.2-3.3) – Works to trees
<p>Arboricultural Supervision – A pre-commencement meeting should be held on site before any of the site clearance, ground works and construction work begins</p>	<ul style="list-style-type: none"> • Inspection of pre-development tree works to ensure works have been carried out in accordance with the approved specification of works and has been carried out to the correct standards • Any additional tree works expected, outside of the approved specification of works will be agreed and recorded • All tree protection measures detailed in this method statement should be fully discussed so that all aspects of implementation and sequencing are understood by all the parties • The details of the programme of tree protection should be agreed and finalised • Any site supervision arrangements between the arboricultural consultant and developer should be agreed and finalised. Including any site visits deemed necessary, by a local planning authority ("LPA") representative
<p>Installation of Tree Protection Measures - Trees will be protected by barriers as described in Appendix "A". The location of the barriers is also shown in Appendix "A"</p>	The barriers should be fit for the purpose of excluding all demolition/construction activity. Vertical barriers will be installed as soon as the pre-development tree work is complete. Once protection measures are installed, they should be regarded as sacrosanct and should not be removed or altered without approval from the LPA.
<p>Arboricultural Inspection – Tree Protection Measures</p>	All tree protective measures will be checked and approved in writing by the appointed arboricultural consultant and/or the Local Authority Tree Officer.
<p>Construction Phase – Once tree protective measures have been formally approved main site construction may begin</p>	<ul style="list-style-type: none"> • Any variation to tree protective measures needs to be formally agreed. • Any variation to methods/techniques, design/construction needs to be formally agreed. • Any incidents of tree loss during development needs to be reported within 48hrs. • Tree protective measures should be regarded as sacrosanct and should not be removed or altered without approval from the LPA.
<p>Construction Phase Complete</p>	The tree protective measures can be removed. Post development landscape finishes should still consider the trees below ground constraints



Appendix "A"

Tree Protection Plan

Tree Barriers:

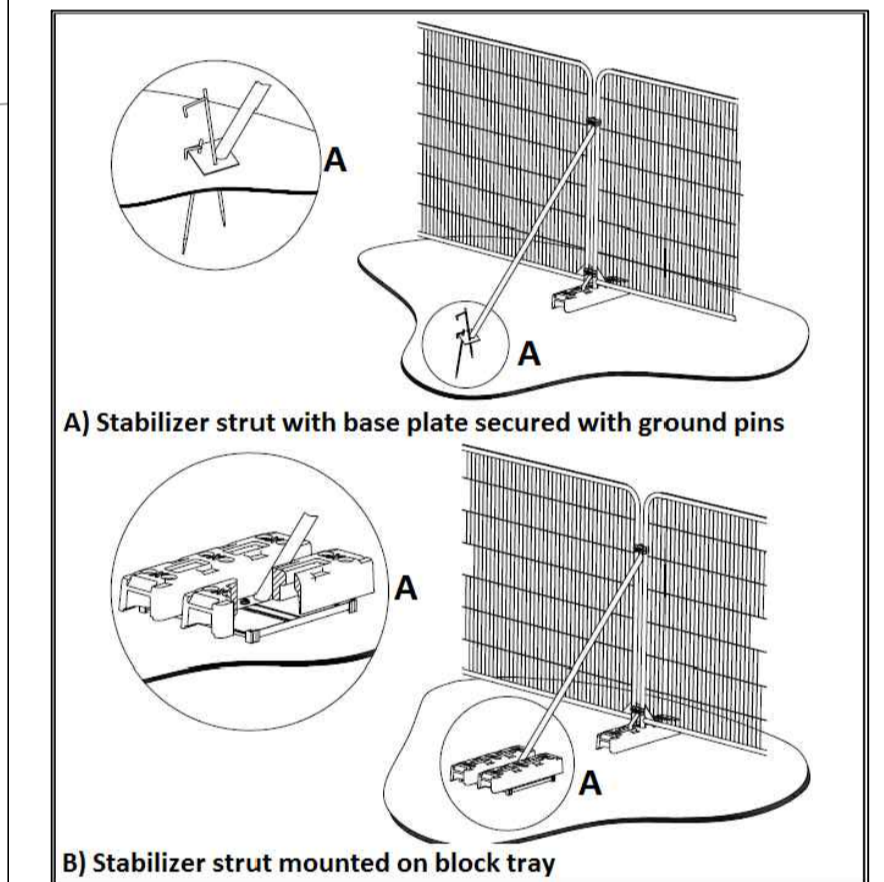
Barriers should be fit for the purpose of excluding construction activity from the root protection area (RPA) of retained trees. The barriers should remain rigid and complete throughout the demolition/construction phase.

BS 5837:2012 - 'Trees in relation to design, demolition and construction' recommends the barrier type specification is commensurate to site circumstances and associated risk of damage within the RPA of retained trees.

Pre-development site inspection should be carried out by an arboriculturist or Local Authority Tree Officer to ensure protective measures are to the correct specification and fit for purpose. The Local Planning Authority should be made aware of any amendments.

Tree protective barriers protect the RPA of retained trees. Any contamination into these areas such as chemical, petrol, diesel and oil spillage should be avoided. The mixing of cement and use of toxic materials should have a designated area well away from tree barriers.

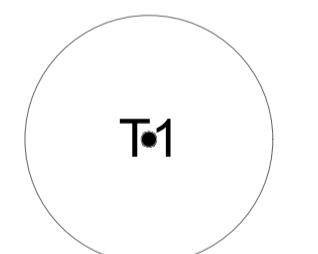
Barrier Specification



A) Stabilizer strut with base plate secured with ground pins

B) Stabilizer strut mounted on block tray

KEY



Root Protection Area

Barrier Position

ARBORICULTURAL CONSULTANCY



New Oxford House
2, George Street
Grimsby
North East Lincolnshire
DN31 1HB

CLIENT John Holmes / Lewis Holmes

PROJECT Residential Development
land at Broughton Saw Mill, Ermine St, Broughton

TITLE Tree Protection Plan

DRAWN	AH	CHECKED	-	APPROVED	-
DATE	2nd February 2024	ORIGINAL SIZE	A1 (594 x 841)	SCALE	1:200
FILE REF	AH-EQUANS	DRAWING No.	TPP01050224_AH	REVISION NO	-

Tree protective measures should be erected before any materials or machinery is brought onto site and before any demolition, development or stripping of soil commences. Once erected, protection measures should be regarded as sacrosanct and should not be removed or altered without approval from the Local Planning Authority and recommendation of an arboriculturist