

Arboricultural Method Statement

Cwrt Pentwmpath, Llay, Wrexham. LL12 0TT

Prepared for:

CASTLEMEAD GROUP

Our Ref: 23/AMS/WXM/289

Planning Ref: P/2022/0914 – Condition 6

March 2023

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SEQUENCE OF OPERATIONS

From commencement of the above development, the following methodology shall be implemented in the manner and sequence described:

1. Pre-construction site meeting 'Toolbox Talk'
2. Erect temporary tree protective fencing
3. Main construction phase
4. Removal of bound surface within the RPA of tree number 10
5. Installation of retaining wall within RPA of tree number 10
6. Re-profiling ground within RPA of trees
7. Removal of temporary fencing
8. Landscaping within RPA of trees
9. Arboricultural site supervision (ACoW)

1. Pre-Construction Site Meeting

1. A site meeting of the following shall take place prior to any construction activity adjacent to existing trees to agree suitable working methods
 - Client's supervisor
 - Main contractor's site manager/supervisor
 - Sub-contractors site manager/supervisor
 - Arboricultural Clerk of Works (ACoW)

2. Erect Temporary Tree Protective Fencing

1. Prior to commencement of any construction, preparation, excavation, or material deliveries the main contractor shall erect the temporary protective fencing as detailed in the 'Tree Protection Specification' and in the location indicated on the Tree Protection Plan.
2. Photographic evidence will be issued to Wrexham Council Tree Officer for approval upon completion. Any damage occurring to protective fencing during the development phase shall be made good by the main contractor.

3. Main Construction Phase

1. Tree protective fencing to be erected prior to any construction plant or materials entering the site
2. Tree protective barriers in accordance with BS 5837: 2012 will be erected to prevent damage to the tree stems and any movement of plant within the RPA
3. There shall be no storage of construction material, site parking, site accommodation or equipment in any area designated as a Construction Exclusion Zone (CEZ) and enclosed by temporary protective fencing
4. No materials that are likely to have an adverse effect on tree health such as oil, bitumen or cement will be stored or discharged within 10 metres of the trunk of a tree that is to be retained
5. No fires will be permitted
6. The main contractor site supervisor shall organise and supervise loading/off-loading of deliveries by crane or self-loading crane, with vehicles positioned in such a manner that retained trees are not at risk of damage
7. Any damage to trees as a result of construction work will be recorded and reported to the ACoW

Avoiding Damage to Stems and Branches

- Care shall be taken when planning site operations in proximity to trees to ensure that wide or tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact can result in serious injury to a tree resulting in making safe retention impossible

On Site Storage of Spoil and Building Materials

- Prior to and during all site construction works no spoil will be stored and no cement mixing will take place within the Root Protection Area of any tree on or adjacent to the site even if the proposed site work is to be within the crown spread. Any encroachment within this protected area will only be with the prior agreement of the ACoW

4. Removal of Bound Surface within the RPA of Tree Number 10

The following steps shall be taken when breaking out the existing tarmac surface:

1. Breaking-out shall be by hand, avoiding damage to the protective bark covering larger underlying tree roots. Excavation will be carried out using pickaxes rather than pneumatic equipment. The use of a mechanical excavator is prohibited.
2. Roots, whilst exposed, shall be wrapped in dry (winter), wet (summer) clean Hessian sacking to prevent desiccation and to protect from rapid temperature changes. Roots smaller than 25mm diameter and roots bound to arisings shall be pruned back preferably to a side branch, by use of sharp saw or secateurs. Roots larger than 25mm shall only be severed following consultation with the Wrexham Council Tree Officer and ACoW
3. No machinery shall pass over the surface once broken out. Arisings shall be picked and removed by manual means.
4. Prior to backfilling any Hessian wrapping shall be removed and retained roots shall be surrounded in at least 35mm of sharp sand or other loose granular fill before any soil is replaced
5. The area will be backfilled with a topsoil and grass seeded to match surrounding area

5. Installation of Retaining Wall within the RPA of Tree Number 10

1. Works to be undertaken under ACoW supervision
2. Any roots exposed shall be cleanly pruned back by the ACoW to the next available inner node by use of sharp saw or secateurs and covered over with topsoil
3. Photographic evidence of this work shall be submitted the WCBC upon completion

6. Reprofilling ground level within RPA of Trees

1. Tree protective fencing shall be removed where necessary to allow for the re-profiling works
2. All works shall be undertaken from working outside the RPA of trees
3. There shall be no storage of construction material, plant, site accommodation or equipment in any area designated as the Root Protection Area (RPA) and enclosed by temporary protective fencing
4. All construction plant will operate from outside the RPA of trees
5. Any undulation of land within the RPA of trees shall be filled with a 50-50 mix of sharp sand and imported topsoil in accordance with BS 3882 (2015). Fill level must not exceed 150mm at their deepest point and must be spread by hand
6. Movement of material shall be by hand using wheelbarrows. The use of any mechanical excavator or dumper within the RPA of trees is strictly prohibited
7. Any exposed roots shall be pruned back to a side branch, by use of sharp saw or secateurs by the project arboricultural consultant and not construction personnel

7. Remove all Temporary Tree Protective Fencing

1. Tree Protective fencing will only be removed upon completion of all engineering/construction work within each phase and once all plant & machinery associated with the works has left site.

8. Landscaping within RPA of Trees

1. There shall be **no rotovating** of ground within any area designated as a Root Protection Area (RPA) and enclosed by Temporary Protective Fencing.
2. Other than the approved works, there should be no additional hard landscaping works or excavation for cables, or any other service should be installed within the RPA without the consent of the ACoW.

9. Arboricultural Site Supervision – (ACoW)

1. The ACoW shall give toolbox talk training with the main contractor/sub-contractor on all tree protective measures and working practice within designated RPA's
2. The ACoW shall make visits to site to inspect all tree protection measures during all key development work within proximity to retained trees and when requested by the contractor.

TREE PROTECTIVE FENCING

- 1 Before the commencement of any site excavations and subsequent construction works (other than those set out in the schedule of tree works contained in this document), protective fencing will be erected as detailed on the Tree Protection Plan and as specified below.
- 2 The fencing will consist of a scaffold framework in accordance with Figure 2 of BS 5837 – 2012 (illustration below) comprising a metal framework, both vertical and horizontal, well braced to resist impacts. Vertical tubes will be spaced at a maximum interval of 3m. Onto this, weldmesh panels shall be securely fixed with wire or scaffold clamps. Weldmesh panels on rubber or concrete feet are not considered resistant to impact and for this reason will not be used. The site manager or other suitably qualified appointed person will be responsible for inspecting the protective fencing daily; any damage to the fencing or breaches of the fenced area will be rectified immediately.
- 3 Clearly legible weatherproof signage, stating “Protected Trees – Exclusion Zone” shall be attached to the fencing 1.5m from the ground, facing out of the Tree Protection Zone located at regular intervals along the fence line. A copy of the tree protection sign is at **Appendix 2**.
- 4 The fencing will remain in place until completion of all site works and then only removed when all site traffic is removed from site
- 5 Other than works detailed within this method statement or approved in writing by Wrexham Council no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.

Protective Fencing Detail

The fence types are shown on the Tree Protection Plan with the following colour key: -

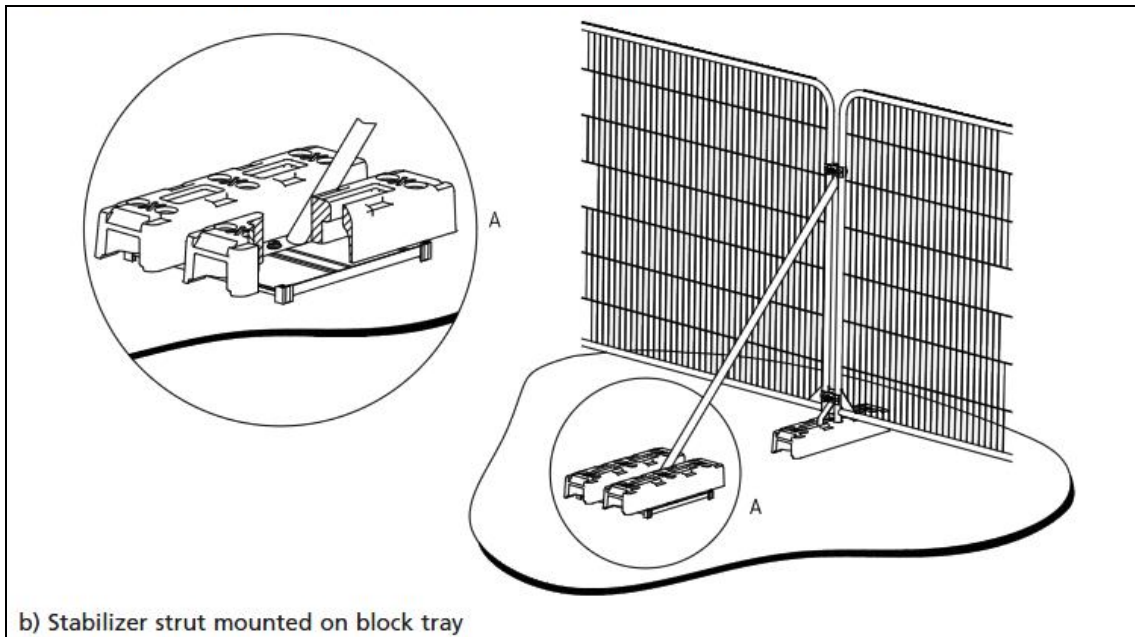
1. **Magenta** – Soft Ground

2.0M high heavy-duty Heras panels (with extra central support bar) mounted on scaffold poles (driven into the ground) and secured with anti-tamper bolts – as illustrated below.



Tree Protective Fencing Specification

2. Magenta – Hard Standing Area



Arboricultural Clerk of Works (ACoW)

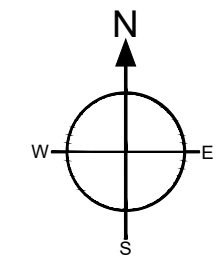
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Tel: 01244 389114

Mobile: 07766 774508

Appendix One

Tree Protection Plan



Legend

- Root Protection Area
Modified to Account for
Site Features
- Category
- Root Protection Area
- Crown Spread
- Tree Number
- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)

NOTE: Tree/group numbers marked with an * have approximate locations.

Client: Castlemead Group

Project: Cwrt Pentwmpath, Eighth Avenue, Llay, Wrexham

Title: Tree Protection Plan 1 - DEMOLITION

Scale: 1:250 @ A1 Date: March 2023

Drawn By: NB Revision:

Job Ref: 23/AMS\WXM/289 Drawing No: 03

Do not scale from this drawing all dimensions to be checked on site.

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Bound surface to be removed
by hand - refer to AMS

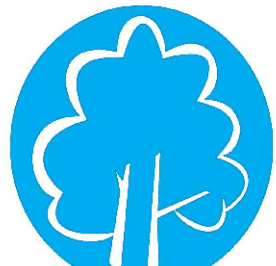
Hawthorn Hedge

Pivert Hedge

5m 10m



Tree Protective Fencing Specification

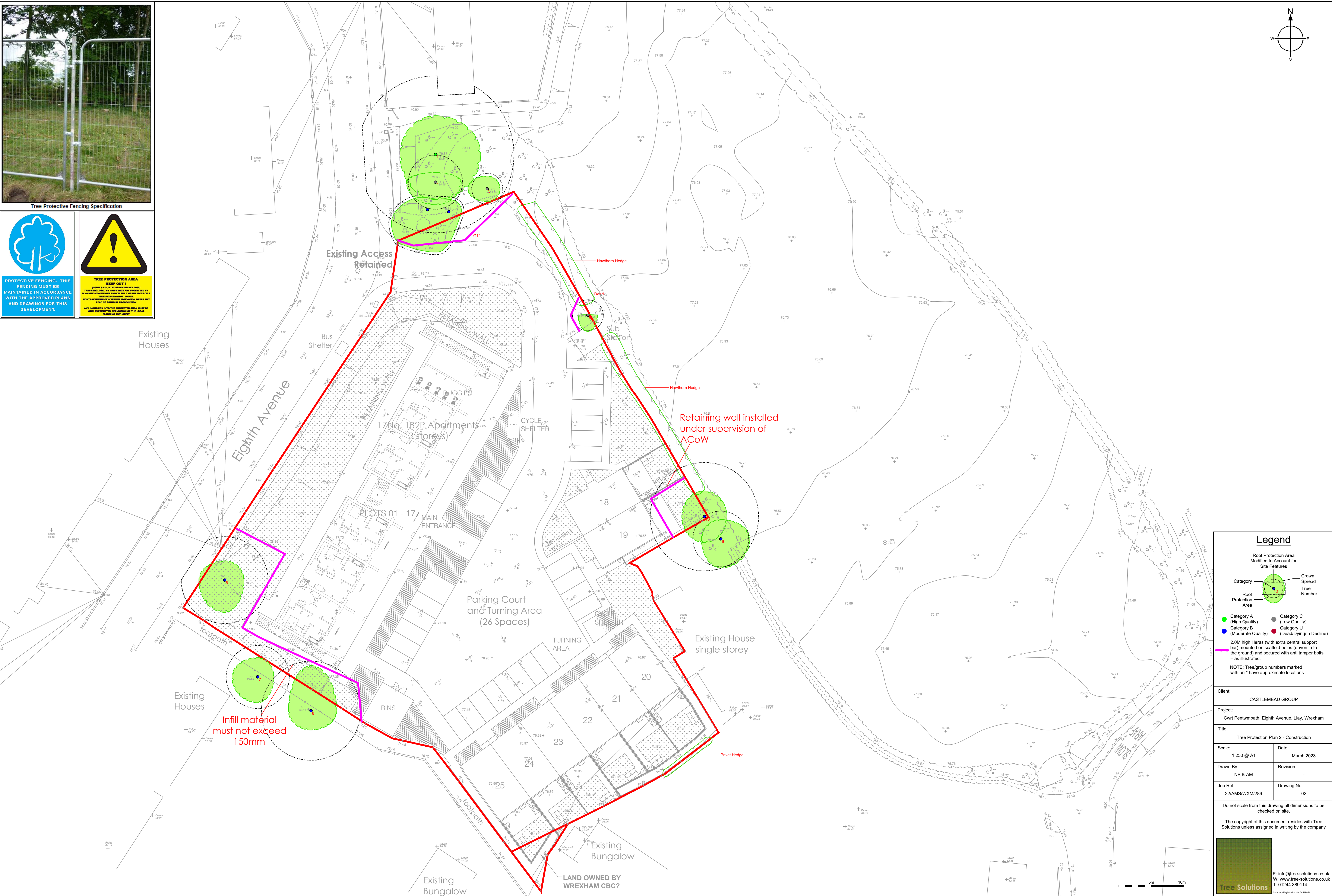


PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.



**TREE PROTECTION AREA
KEEP OUT !**
(TOWN & COUNTRY PLANNING ACT 1962)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF
TREE PRESERVATION ORDERS.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL



Legend

Root Protection Area Modified to Account for Site Features

A diagram of a tree with a green crown and a brown trunk. A dashed circle around the crown is labeled 'Crown Spread'. A dashed rectangle around the trunk is labeled 'Root'. A blue dot on the trunk is labeled 'Tree Number' with the number '13' next to it. A line points to the crown area labeled 'Category'.

Category A
(High Quality)

Category B
(Moderate Quality)

Category C
(Low Quality)

Category U
(Dead/Dying/In Dec)

2.0M high Heras (with extra central support bar) mounted on scaffold poles (driven in to the ground) and secured with anti tamper bolts – as illustrated.

NOTE: Tree/group numbers marked with an * have approximate locations.

Client: CASTLEMEAD GROUP

Project:
Cwrt Pentwmpath, Eighth Avenue, Llay, Wrexham

Title: Tree Protection Plan 2 - Construction

Scale: 1:250 @ A1	Date: March 2023
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Drawn By: NB & AM	Revision: -
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Job Ref:	Drawing No:
22/AMS/WXM/289	02

Do not scale from this drawing all dimensions to
checked on site.

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Appendix Two

Tree Protection Sign



**PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



**TREE PROTECTION AREA
KEEP OUT !**

**(TOWN & COUNTRY PLANNING ACT 1990)
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LEAD TO CRIMINAL PROSECUTION**

**ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL
PLANNING AUTHORITY**