BRITISH STANDARD 5837 TREE SURVEYS ARBORICULTURAL IMPLICATION STUDIES TPO/PLANNIG ADVICE/ PROJECT MANAGEMENT
TREE INVENTORIES AND RISK ASSESSMENTS WOODLAND MANAGEMENT PLANS TREE PLANTING SCHEMES TPO RE-SURVEY






ARBORICULTURAL METHOD STATEMENT

PROPOSED DEVELOPMENT

AT

LOWER RACKERY FARM
WREXHAM
LL12 0AG

Author: C. Salisbury
Date: 01 December 2025
Ref: TRE/LRFW/Rev C

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1.0 Discussion

1.1 The majority of the root system, of a tree, is in the surface 600mm of the soil, extending radially for distances frequently in excess of the trees height. Beyond the main structural roots (close to the base of the trunk), the root system rapidly sub-divides into smaller diameter roots: off this main system, a mass of fine roots develops.

1.2 The shape of the main structural roots develops in response to the need for the tree to have physical stability. Beyond these major roots, root growth and development is influenced by the availability of water and nutrients. Unless conditions are uniform around the tree, which would be unusual, the extent of the root system will be very irregular and difficult to predict. It will not generally show the symmetry seen in the branch system.

1.3 The parts of the root system, which are active in water and nutrient uptake, are very fine, typically less than 0.5mm diameter. They are short lived, developing in response to the needs of the tree, with the majority dying each winter. It is *essential* that conditions in the soil remain conducive to the healthy growth of these fine roots so that the water and nutrients necessary for healthy tree growth can be absorbed.

1.4 All parts of the root system, but especially the fine roots, are vulnerable to damage. Once they are damaged, water and nutrient uptake will be restricted until new roots have regenerated. Vigorous young trees will be capable of rapid regeneration but over mature trees will respond slowly, *if at all*.

1.5 In order to live and grow, roots need oxygen from the soil. Respiration by the roots and other soil organisms depletes this oxygen and increases carbon dioxide levels in the soil; a correct balance of these gases is normally maintained by diffusion between the soil and the atmosphere. Anything, which disturbs this balance, will affect the condition of the root system.

1.6 The factors that most commonly affect this diffusion adversely, and therefore damage roots, are the following: -

a) Compaction of the ground, which reduces the space between soil particles. This is particularly important on clay soils. A single passage by heavy equipment on clay soils or storage of heavy materials can cause significant damage.
b) Changing soil levels, even for a few weeks.
c) Covering the root area with impervious surfaces.
d) A rise in the level of the water table. Roots can tolerate submersion for short periods. But a permanent rise will deplete the soil of oxygen.

1.7 Serious damage is often caused during preliminary site works by stripping the topsoil. For this reason, such works should be avoided until protective fencing has been erected.

1.8 Excavations in the rooting area can severe roots. As the majority of roots are in the surface 600mm, even shallow excavations can cause damage.

1.9 Excavations for foundations, landscaping or service trenches are usually sufficiently deep to sever most of the roots, and it should therefore be assumed that all parts of the root system beyond the excavation would no longer serve the tree.

1.10 Excavation or soil stripping which severe or damage the roots may impair the stability of the tree and make it dangerous.

2.0 Method Statement

Before any form of development commences on the site the following works should be undertaken: -

2.1 Tree Works

No tree works are required for the proposed works.

2.2 Protective Fencing and Ground Protection

All fencing used on the site should fully comply with BS 5837:2012 (Trees in Relation to Construction – Recommendations).

2.2.1 The fencing should be strong and suitable for local conditions. It should also take into account the degree of construction activity on the site.

2.2.2 The fencing should be at least 2.3m in height and should be erected with both a vertical and horizontal scaffolding framework capable of withstanding impact, with vertical tubes spaced at a maximum of 3 m. This should support either weldmesh panels which should be securely fixed with wire or scaffold clamps.

2.2.3 Notices should also be erected on the fencing stating ‘Protected Area - No operations within fenced area’.

2.2.4 The positioning of the protective fencing and ground protection is also very important and should be erected in the proposed location identified in Appendix One. Once the fence has been erected it should never be crossed and particular care should be taken not to store any materials or soil within the protected area.

2.3 Additional Precautions Outside Fenced Areas

2.3.1 Oil, bitumen, cement or other material likely to cause damage to the tree will not be stacked or discharged within 10m of the trees stem or within the protective area. Also materials in general will not be stacked or discharged within the exclusion zone.

2.3.2 Concrete mixing and washing will not be carried out within 10m of any retained trees.

2.3.3 Fires will not be lit beneath the foliage or in a position where the flames could extend to within 5m of the foliage, branches or trunk. If the fire is large then this may necessitate a distance of at least 20m.

2.3.4 Trees that are to be retained will not be used as anchorage for equipment.

2.3.5 Notice boards, telephone cables, or other services will not be attached to any part of the retained tree.

2.3.6 Care should be taken when using cranes or other equipment near the canopy of the retained trees. Also any trees to be felled in proximity to the retained trees should be done so with particular care.

2.4 Proposed Drainage

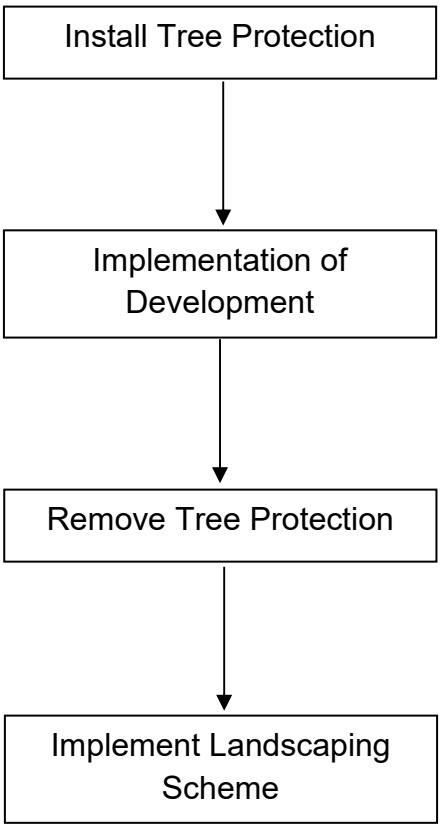
2.4.1 The proposed drainage has been designed to be located outside the RPA's of the four trees. Its route is contained within Appendix One of this document.

2.5 Installation Of Landscaping Within RPA's

2.5.1 The only proposed landscaping within the RPA's of the four trees is the creation of a meadow verge and a native hedge. To minimise the impacts from the works will be undertaken as detailed below:

- Excavation must be carried out using hand tools to avoid direct damage to the bark of the roots.
- Roots less than 25mm diameter may be pruned back, preferably to a growing point. A sharp cutting tool such as bypass secateurs or a handsaw should be used to leave the smallest wound possible. Roots greater than 25mm in diameter should be retained wherever possible.

2.6 Summary of Methodology for the Protection of the Trees



Appendix One

Tree Plan



Existing Trees Retained

Existing Trees Removed

Root Protection Area

Tree protection fencing

Ground Protection

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Tel: 0161 955 3628
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Site Address:
Lower Rackery Farm
Wrexham

Drawing Title:
Method Statement Plan

Drawing No:
LRFW/MS/01 Rev C

Date:	Scale:	Drawn by:
14/11/2025	1:200@A1	CS

Note: Dimensions are not to be scaled from this drawing. All written measurements are to be checked on site by the contractor. Copyright Mulberry TMC.
Note: All rights described in Chapter IV of the Copyright Design & Patents Act 1988 have generally been asserted.



Revision:

P1 First issue of drawing.

JB	KM	18.04.24	Prelim

Barron Design

Insole Court, Llandaff, Cardiff, CF5 2LN | 4 Oak Drive, Marford, LL12 8XT
www.barrondesign.co.uk|CIAT Chartered Practice No. F2683

Project

Lower Rackery Barns, Dark Lane, Burton LL11 0AG
Mr and Mrs Phillips

Drawing Title

PROPOSED DRAINAGE PLAN

Drawn By:	Checked By:	Date:	Scale:
JB	KM	18.04.24	1:500 @ A3

Job No.:	Drawing No.:	Revision:
P645	104	P1



KEY

General

- Proposed Development Footprints (Dwelling, Garages and Storage)

Surfacing to Access and Car Parking

- Paving Flags Colour- Buff.
- Bitumen Macadam/ SMA Surfacing- (Vehicle Overrun Areas)
- Gravel 20mm/ Colour- Buff/ Pink.
- Natural Set Cobbled Paving- (100x200mm Temple sets by CED for similar)

Hard Boundaries and Delineation

- Natural Stone Boundary Wall & Gate Pillars
- Timber Fencing (Max height 2.0m)

Existing Trees and Vegetation

- Existing Trees to Remain

Proposed Trees and Vegetation

- New Tree Planting (See Schedule)
- New Mixed Species Hedgerow Planting (See Schedule)
- New Single Species Hedgerow Planting (See Annotation & Schedule)
- Ornamental Planting (See Schedules)
- Meadow Grass and Wildflower Mix (For Under Tree Canopy. EW1 Grass and Wildflower Mix by Emorgate Seeds- or Similar)
- Amenity Grass

Drainage
See Consultants Drawings for Details

- Surfacing Water
- Foul

Tree Root Barrier

- Tree Root Barrier
  By Green Blue Urban (or similar) to be used to protect existing and proposed services and hard-standing and foundations. To be reviewed and developed prior to construction phase with engineering and M&E design. Depth of barrier to suit depth of construction or service, typically 600mm.

Drawing not for construction.
Do not scale from drawing.

FOR PLANNING

REV A- Client and Drainage Amendments 30.06.24

Lower Rackery Barns, Dark Lane, Burton. LL11 OAG

Hard and Soft Landscape General Layout Plan

SCALE: 1/500 @ A3 **DATE:** Nov 23

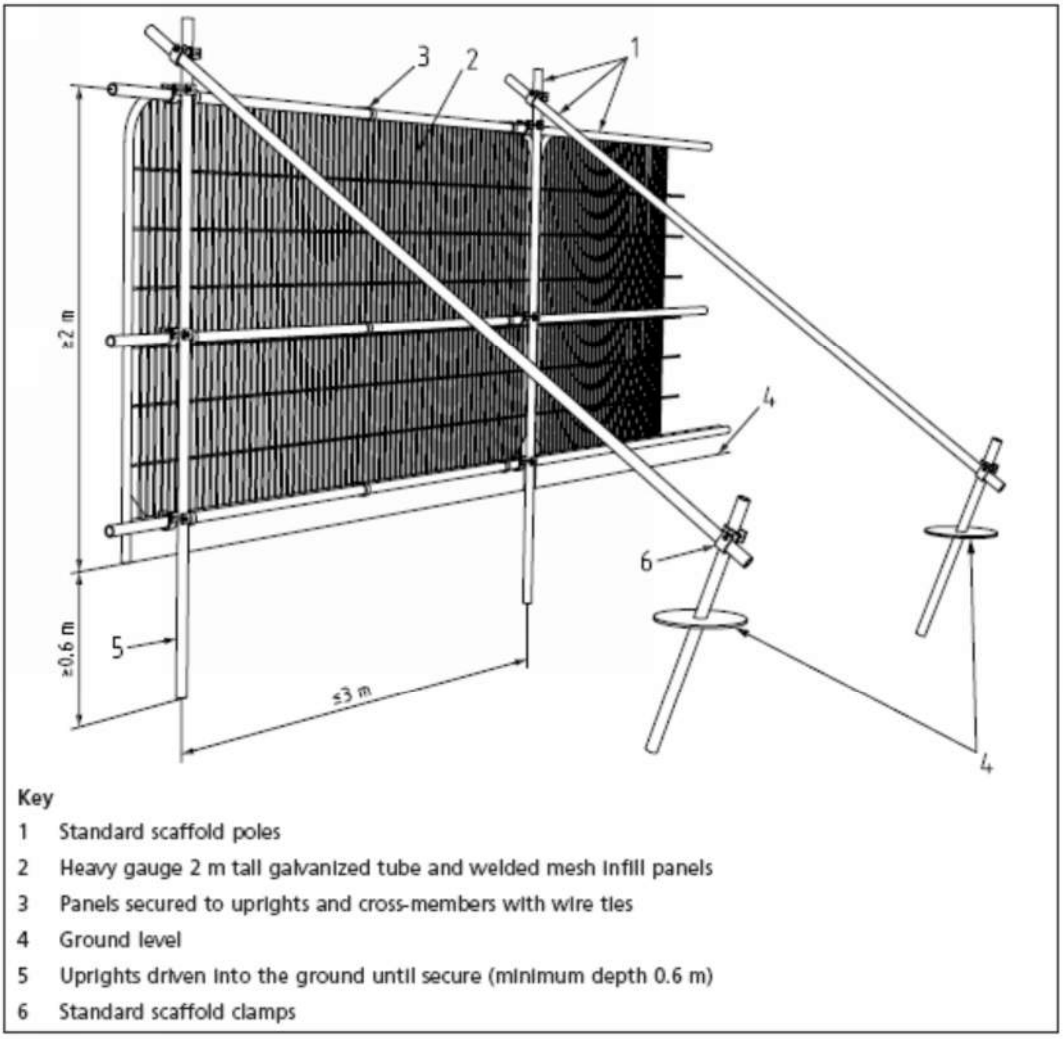
DRAWING: M703.03/LRB/LAND/01A

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Appendix Two

Tree Protection Fencing

Tree Protection Fencing (BS5837: 2012)



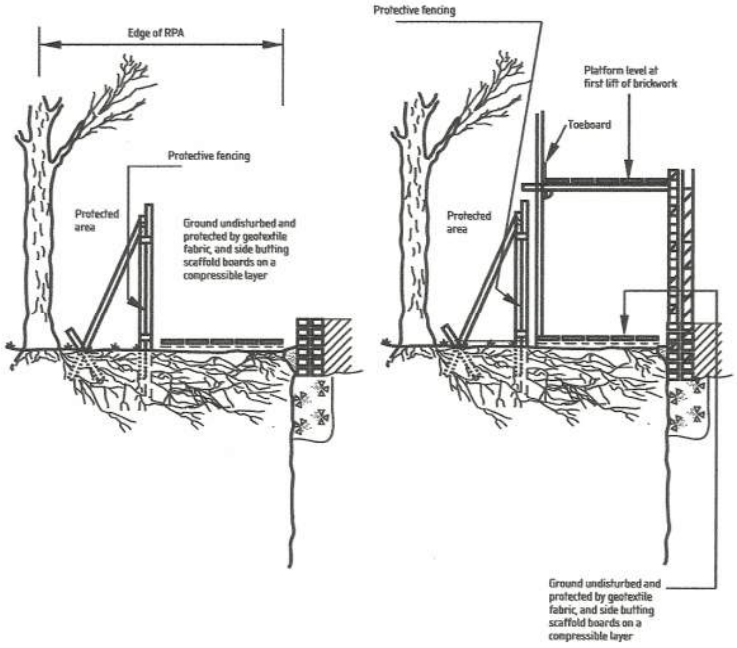
Key

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

Appendix Three

Ground Protection

Special Measures Area (pedestrian)



Ground protection and scaffolding within the RPA (taken from BS5837:2012)

Interlinked plastic boards with a layer of chip can be used as ground protection.

The below picture courtesy of Ground Guards (http://www.ground-guards.co.uk/solutions/tree-root-protection/) illustrates a possible method.



Appendix Four

Tree Survey Schedule

TREE SURVEY SCHEDULE

Arboricultural Data Sheet:				Date of Survey: 12/10/23						Surveyor: C. Salisbury		
Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	E	S	W					
T1	Oak	1210	10.20	FM	5.0	4.5	5.0	4.0	3.0	B	A co-dominant specimen with reasonable for situated on the site boundary	80+	A2
T2	Oak	710	9.60	FM	4.0	3.0	4.0	3.5	3.0	B/C	A slightly supressed co-dominant specimen with reasonable for situated on the site boundary	80+	B2
T3	Oak	980	10.60	FM	5.0	4.5	5.5	4.5	3.0	B	A co-dominant specimen with reasonable for situated on the site boundary	80+	A2
T4	Oak	680	10.0	FM	4.5	3.0	4.0	4.0	3.0	B	A co-dominant specimen with reasonable for situated on the site boundary	80+	B2