Detailed Arboricultural Method Statement
&
Tree Protection Plan

2 Belgrave Road
Wrexham
LL13 7ES

Ref:
AMS/BGR/09/25

Date:
17th September 2025

Commissioned by:
Mr D. Edwards
on behalf of
Blueprint Architectural LTD

Prepared by
S. Shields

Shields Arboricultural Consultancy
T: **01691 657189**
M: **07989 626923**
Email: info@shieldsac.co.uk
59 Oakhurst Road Oswestry Shropshire SY11 1BL

Institute of Chartered Foresters
Registered Consultant

Shields Arboricultural Consultancy
Ref: AMS/BGR/09/25
Date 17th September 2025

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

Detailed Arboricultural Method Statement

&

Tree Protection Plan

Including design specification for CCS hard surface and driveway installation

Land at
2 Belgrave Road
Wrexham
LL13 7ES

This Arboricultural Method Statement has been prepared in accordance with the protocols, standards and procedures set out in BS 5837: 2012 'Trees in relation to design, demolition and construction' & BS 3998: 2010 'Tree Work – Recommendations'

This report, including appendices and attached plans, is the property of Shields Arboricultural Consultancy and is issued for the sole use of the client as identified in section 1.1 on the condition it is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part without the written consent of Shields Arboricultural Consultancy. Ordnance Survey material is used with permission of The Controller of HMSO, Crown copyright 0100031673.

Institute of Chartered Foresters
Registered Consultant

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

Contents

1.0 Instruction
2.0 Introduction
3.0 Site Operations
4.0 Arboricultural Operations
5.0 Formation of No Dig Hardstanding
6.0 Arboricultural Method Statement
Tree Protection Plan

Date	Revision	
17th September 2025	Original	Issued for Discharge of Condition

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

Instruction

1.1 Shields Arboricultural Consultancy received instructions from Mr D. Edwards of Blueprint Architectural Services Ltd. on behalf of Davies Brothers Ltd. to prepare a detail Arboricultural Method Statement and Tree Protection Plan in respect of the above site. The client or their agents may copy and distribute this report as required for the purpose of applying for planning permission discharge of conditions or for or preparing any documents or plans for this or future applications at this site.

Introduction

2.1 Planning permission has been conditionally granted to develop the site to provide two residential dwellings and associated infrastructure under planning reference P/2025/2069 and in accordance with site layout DC 151/005 below.



2.2 An Arboricultural Impact Assessment ref: AIA/BGR/09/21 was prepared by Shields Arboricultural Consultancy in respect of the trees at the site. This AIA included an interim Arboricultural Method Statement and was considered in determination of the planning application.

2.3 This AMS updates the AIA and provides site specific tree protection details for tree protection measures on the site including work within the Root Protection Area of retained trees for the installation of a Cellular Confinement System 'no dig' access drive and hard standing and drains and services to meet the requirements of the pre commencement planning condition 8.

Institute of Chartered Foresters
Registered Consultant

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

Site Operations

Phasing

Phase	Operation	Tree Protection Measures
Pre-construction	Arboricultural Works	Supervision from Competent Person (CP)
Pre-construction	Install Tree Protection Fencing and Ground Protection	Verification by Supervising Arboriculturalist (SA)
Pre-construction	Installation of Site Welfare Facilities	Verification by SA
Preliminary meeting and contractor briefing by SA to explain tree protection measure. Appointment of responsible person to supervise day to day tree protection measures		
Construction Phase One	Site clearance and preparation work	Site supervision by CP
Construction Phase Two	Main construction operations	Site supervision by CP and verification by SA
Construction Phase Three	Removal of tree protection to allow landscaping operations	Site supervision by CP and verification by SA
Construction Phase Four	Completion of all on-site work removal of all remaining Tree Protection Fencing	Site supervision by CP and verification by SA

Details of Plant, Machinery and Equipment – Residential Housing Construction (Including Site Roads and Landscaping)

Welfare and Site Establishment

- **Self-contained Welfare Unit (Oasis Unit)** – Mobile unit providing office, canteen, WC, and drying room.
- **Rigid Wagons & Fixed Crane (HIAB)** – For delivery and installation of cabins and facilities.

Tree Works and Vegetation Clearance

- **Chainsaw** – Tree felling and major limb removal.
- **Wood Chipper** – Processing of tree arisings into mulch or chips.
- **Hedge Trimmer / Leaf Blower** – Management of shrubs and undergrowth.
- **Pick-Up Truck / Transit Van** – Transport of crew and arboricultural equipment.

Site Clearance and Preparation

- **6T - 8T 360-Degree Excavator** – Site strip, vegetation and bulk material removal.
- **8-Wheel Tipper Wagons (Visiting)** – Removal of arisings and waste.
- **10m^3 Builder's Skips** – Containment of vegetation and demolition waste.

Groundworks and Foundations

- **6T - 8T 360-Degree Excavator** – Trenching and foundation works.

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

- **3T Forward Tipping Dumper** – On-site spoil and material transport.
- **Sit-On Twin Drum Roller** – Sub-base and base course compaction.
- **Wacker Plate (Compactor)** – Localised compaction.
- **Stihl Saw / Petrol Cut-Off Saw** – Cutting concrete, metal, and masonry.

Site Access Driveway

- **6T - 8T 360-Degree Excavator** – Formation of access.
- **3T Dumpers** – Haulage of stone, topsoil and spoil.
- **Laser Level and Staff** – Ensuring falls, levels and drainage compliance.
- **Sit-On Roller / Ride-On Roller** – Road base and tarmac compaction.
- **Wacker Plate** – For edge detail and restricted areas.
- **Tarmac Paver (Visiting)** – Laying bituminous surfacing.
- **Hotbox / Bitumen Boiler (Visiting)** – Localised road surface repairs.
- **Kerb Lifter / Block Grab** – Installation of kerbs and paving packs.
- **3T–5T Mini Excavator** – Trenching for drainage and edge works.

Structural Work

- **12m Boom Forklift (Telehandler)** – Material distribution across site.
- **Mobile Concrete Pump** – Concrete delivery to upper floors and footings.
- **Power Floats** – Finishing of concrete slabs.
- **Scaffold Wagon (Visiting)** – Delivery and collection of scaffold materials.
- **6m³ Concrete Wagons (Visiting)** – Delivery of ready-mix concrete.
- **Bricklayer's Kit** – For construction of walls.
- **Stihl Saw / Disc Cutter** – Cutting pavers and stone edgings.
- **Plate Compactor (Wacker Plate)** – Compacting laying course or paving base.
- **Trade Tools** – General construction.

Site Load Handling and Access

- **12m Boom Forklift (Telehandler)** – Material distribution across site.

Landscaping – Softworks

- **Mini Excavator (1.5T–3T)** – Planting pits, trenching and shaping.
- **Tracked Dumper / Power Barrow** – Access to restricted garden areas.
- **Rotavator / Soil Conditioner** – Soil preparation prior to turfing or seeding.
- **Topsoil Spreader / Box Grader (Attachment)** – Final levelling of soil.
- **Turf Cutter (Visiting)** – Removal of old turf or grass areas.
- **Petrol Strimmer / Brush Cutter** – Clearance of overgrown vegetation.
- **Water Bowser with Hose** – Irrigation during establishment.
- **Hand Tools** – Spades, rakes, mattocks, forks, lump hammers, etc.
- **Wheelbarrows** – Manual material handling in finished landscape areas.

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

Landscaping – Hardworks

- **Stihl Saw / Disc Cutter** – Cutting pavers and stone edgings.
- **Plate Compactor (Wacker Plate)** – Compacting laying course or paving base.
- **Block Splitter (Manual / Hydraulic)** – Cutting pavers and blocks cleanly.
- **Bricklayer's Kit** – For low walls, edging, and hard landscape detailing.

Arboricultural Operations

Permission to remove any tree must be obtained from the Local Planning Authority and must not be undertaken until a Full Planning Permission has been granted and all pre-commencement conditions have been discharged. In cases where trees are protected by Tree Preservation Orders or Conservation Areas additional consent may be required.

4.1 Tree removal and pruning will be required, subject to a grant of planning permission, to implement this development. It is recommended that the work should be undertaken by a suitably qualified person, holding public liability insurance for the sum of £5,000,000. All operators must hold relevant NPTC certificates. A site-specific risk assessment must be prepared, and operators must work to a health and safety method statement. The use of Arboricultural Association Approved Contractors www.trees.org.uk/find-a-professional/Directory-of-Tree-Surgeons is recommended.

4.2 The contractor undertaking the work is responsible for any loss or damage arising as a result of the operations and agrees to indemnify the owner against such occurrences.

Formation of No Dig Access and Hard Standing

No Dig CCS Access Drive Performance Specification

NB Where no dig construction is specified this must be installed prior to any machinery access in the area or an alternative temporary ground protection system must be used.

5.1 The approved plans indicate a driveway / parking area within the RPA of retained tree T22. As traditional construction has the potential to cause damage to the tree's root systems and soil environment, which would be detrimental to them, it is necessary to use an alternative method of construction. In this case, as the ground conditions appear to be suitable, it is recommended that a no dig above ground method, such as the cell web TRP cellular confinement system (*Geosynthetics Limited, Fleming Road, Harrowbrook Ind Est, Hinckley, Leicestershire, LE10 3DU. Tel: 01455 617139*) be used.

5.2 Essentially no-dig CCS are installed over existing ground levels and without the need for compacting the sub-base. This ensures that the trees' root systems are not damaged by excavation and the soil

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

structure is maintained. Using a porous tarmac or other porous top surface such as gravel, ensures that water can permeate through the footpath to the root system and the exchange of gases and oxygen between the soil and the air is unaffected and is recommended. The CCS must be installed in accordance with the details provided in the AMS (see section 6).

5.3 The design will need to consider surface transitions between the new hard standing and the existing access road. In this case this can be done outside of the 'no dig' area and will not impact on the instillation.

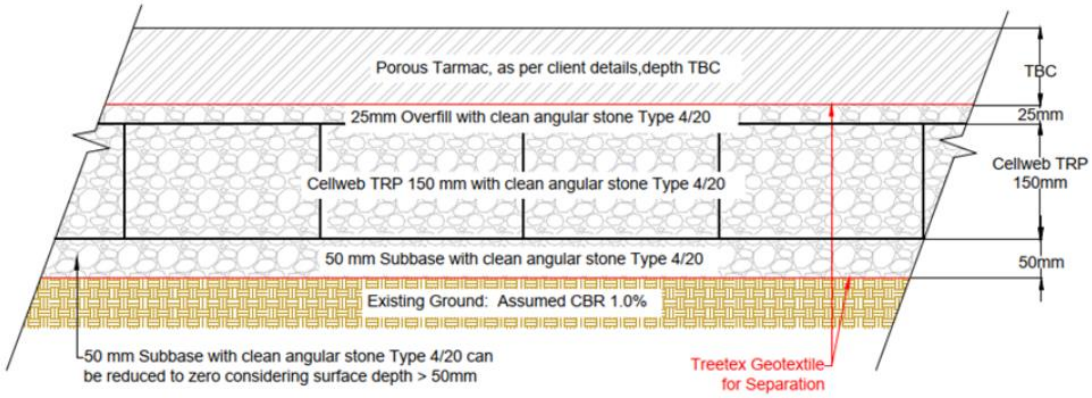


Figure 1 Illustration of Cellweb TRP 150mm Cellular Confinement System

5.4 The CCS system is edged using treat timber boards held in place with short stakes. There a gap of 1m between the CCS and the base of any retained tree must be maintained. The edges of the CCS can be incorporated into the landscape using granular fill soil to create a graded edge.

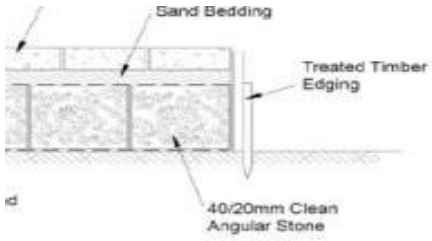


Figure 2 Illustration of Cellweb edging

N.B This report does not provide engineering specifications for the no dig CCS Driveway and the suitability for the use of a 3-dimensional grid system in this location must be confirmed by an appropriately qualified person. Geosynthetics Limited provides a design service for their products and Green Grid will advise on the RBS.

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

Arboricultural Method Statement

6.1 This arboricultural method statement (AMS) sets out the principles and of tree protection measures afforded to the retained trees on and adjacent to the site.

6.2 This AMS should be read in conjunction with the Tree Protection Plan, ref: BGR/TPP/09/25. The TPP indicates the construction exclusion zone (CEZ) that must be maintained around each retained tree. These areas must remain undisturbed during the construction process and must be protected using suitable fencing or ground protection as specified.

6.3 Copies of the TPP & the AMS must be available on-site and all tree protection requirements explained to all persons undertaking activities on the site during the site induction process.

6.4 All general tree protection measures must be installed and inspected prior to bringing onto the site any plant, materials or equipment or undertaking any construction works or demolition or any arboricultural works. The LPA must be informed in writing once the tree protection measures are installed.

6.5 The site is to be inspected by the consulting arboriculturalist in accordance with the schedule of inspections (see section 6.23).

6.6 All measurements are given in metric using standard abbreviations.

Fencing and Ground Protection

6.7 The TPP indicates the position all protective fences.

6.8 Protective fencing will comprise herras fencing, securely fixed into place and braced to resist impact, or as otherwise agreed with the Local Planning Authority.

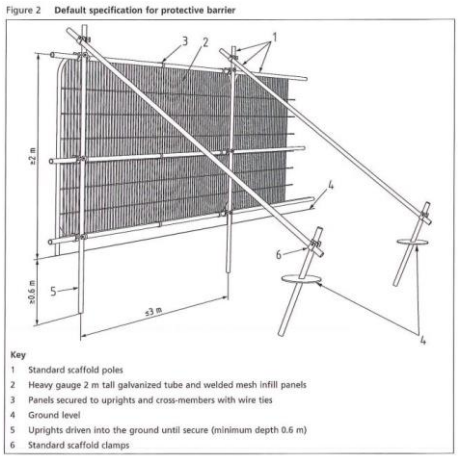


Figure 3 Illustration of Tree Protection Barriers/Fencing

6.9 Ground protection is to be used within any Precautionary Area, identified on the TPP, during the construction phase of the development and will consist of a proprietary system such as Ground Guard protective plates which must extend over the entire PA indicated on the TPP and be securely fastened in place. The type of guard used

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

must be suitable for loads up to 10 tonnes or more. Alternatively, where CCS is to be used this can be installed and used as ground protection.

6.10 The protective fencing and ground protection must be inspected on installation and will remain in place until completion of the construction phase and then only removed with the consent of the LPA.

6.11 Other than works approved in writing by the LPA, no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.

General Precautions

6.12 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 10m of the trunk of a tree that is to be retained or within any part of the CEZ. Spills kits, suitable for the type fluids, fuels and chemicals stored on site must be available on site and site operatives must have training in their use.

6.13 No fires will be lit within 20m of the trunk of any tree that is to be retained.

6.14 Storage and mixing areas, contactor parking and all site huts must be outside the CEZ.

6.15 Access to the work area is via the main site entrance and must not traverse the CEZ.

6.16 All service and drainage routes, below or above ground must avoid the CEZ. All services are to be installed in accordance with NJUG volume 4 Guidelines.

Working within Precautionary Areas

6.17 This section sets out the specific requirements when working within the Precautionary Area. A pre-commencement meeting is to take place between site operatives and an arboriculturist from Shields Arboricultural Consultancy. This meeting will discuss the tree protection requirements.

6.18 Ground protection must be installed across the PA during all operations. This ground protection must be retained in position unless it is removed to facilitate the installation of the access road as detailed below,

Construction of Access Drive and Parking Area – CCS

6.19 The area where the no-dig system is to be used is identified on the TPP and should be marked out on the ground.

6.20 It is recommended that ground protection be used during the construction phase and the CCS be installed as part of the landscaping operations on the site. This will prevent any damage to the CCS by construction machinery. The ground protection should only be removed immediately prior to the installation of the CCS.

T 01691 657189
M 07989 626923
Email: info@shieldsac.co.uk

6.21 Initial preparations require any ground vegetation to be carefully removed and the basic levelling of the site. This should be undertaken using hand tools, preferably an airspade, under the supervision of the arboriculturalist. Where small high points exist, these can be levelled off and small low points filled with sharp sand to provide reasonably even ground on to which the cell web system is laid. Changes in levels to even out the ground should not exceed +/-50mm or exceed an area of 2.5m^2 and no significant roots (25mm+) are to be severed or damaged.

6.22 Once an even surface has been achieved the 3-dimensional CCS is to be installed in accordance with the manufacturer's instructions and details of the technical specification. This will require a layer porous of geo-textile (Geosynthetics Treetex) is placed over the ground beneath the CCS. On to this is laid the 3-dimensional CCS grid, which is pegged into place using proprietary pegs. The cells are then filled using 4/20 mm clean angular stone, of neutral pH, with no fines. This should occur from the outside edge working in and the charged cells used as a working platform. A second layer of geotextile is then laid and then topped with the finished surface material. The geogrid structure and surface layer are retained and edged using treated timber edging held in place by short wooden stakes. The edges can then be incorporated into the existing landscape as required.

6.23 To ensure that all tree protection measures are properly installed and maintained the site shall be monitored by Shields Arboricultural. Details of the findings and photographic evidence of the site inspection visits will be reported to the LPA by email within 24 hrs of the visit. All tree protection measures must remain in place until development work is completed and only removed after receiving written confirmation from the LPA.

Schedule of Inspection

1. Prior to work commencing to inspect tree protection fencing and undertake pre-commencement meeting.

9.18 Prior to the commencement on site of any work, a competent person is to be appointed to monitor the day to day activities on site. In the case of a tree being damaged or where an unexpected event arises it will be for this person to contact Shields Arboricultural Consultancy to seek advice on contingency measures.

S.J.A. Shields

Uni Cert For. & F.P. (Bangor),
P. Dip. Arb. (RFS), MSc. Arb. & Urban For. (UCLan)
M.Arbor.A, MICFor.
Chartered Forester

17th September 2025

North

T4-C2 T3-C2 H25-C2 S2-C2

T5-A2 T6-U

T1-B2

T7-B2 T8-U T9-U

T21-U

T10-C1

T22-C1

T11-C2

H24-C1

T20-C1

T23-C1

T12-C2

T19-C2

G18-C2

T13-B2 T14-C1 T15-B2 T16-C1 T17-C2

Shields Arboricultural Consultancy

Tree & Woodland Management Solutions

Tree Removal Plan

2 Belgrave Road
Wrexham

Key

- Cat B Tree
- Cat C Tree
- Cat U Tree
- Canopy Spread Tree / Group

Drawing No: BGR/TRP/09/25

Drawn By: S. Shields

Scale: 1:200 @ A2

Date: 17th September 2025

Revision:

Do not scale from this drawing all dimensions to be checked on site
Drawing is colour coded and a monochrome copy should not be relied upon

© Shields Arboricultural Consultancy
© Crow n copyright and database rights 2025
Ordnance Survey 0100031673

North

No obstruction in excess of 600mm high within pedestrian visibility splay. Hedgerow to be reduced in height/removed as required to form splays and access required to Plot 1.

Existing Access to be retained for use as access point to Plot 2.

Existing A
to 2, Belg

Vehicular Visibility Splay 2.0m x 25m

New Silver birch

BELGRAVE ROAD

Veh
Visib
2.0m

Pedestrian visibility Splay 2.4m x 3.3m

New Entrance

Pedestrian visibility Splay 2.4m x 3.3m

3200

960

985

2

10

Approx
sition of
idambar
yraciflua

T7-B2

T11-C2

T22-C1

T23-C1

Approx Position of Cut-leaf alders

Plot 1

Plot 2

T13-B2

T14-C1

T15-B2

T16-C1

T17-C2

C18-C2

Shields Arboricultural Consultancy

Tree & Woodland Management Solutions

Tree Protection Plan

2 Belgrave Road
Wrexham

- Cat A Tree
- Cat B Tree
- Cat C Tree
- Cat U Tree
- CEZ
- Precautionary Area
- Fencing

Drawing No: BGR/TPP/OL/09/25

Drawn By: S. Shields

Scale: 1:200 @ A2

Date: 17th September 2025

Revision:

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

Drawing is colour coded and a monochrome copy should not be relied upon

© Shields Arboricultural Consultancy
© Crown copyright and database rights 2025
Ordnance Survey 0100031673