

NOTES - Where works to trees are proposed on site, or to overhanging vegetation to enable construction, this shall be undertaken by qualified tree surgeon in accordance with the requirements of BS3998:2010, prior to the installation of Protective Fencing.

Retained trees and vegetation, either within the site or on adjacent land, shall be protected where necessary during works by 2300mm high mesh panel (Heras type) fencing secured to a scaffold tubing framework or supported on a suitable base pinned into the ground and connected by none tamper fixings.

Protective fencing shall be erected outside the canopy drip-line or beyond the minimum Root Protection Area (RPA) distance wherever possible. The tree works & fencing works shall be carried out prior to any demolition, groundworks, construction works.

Laminated, waterproof A4 signs shall be fixed to the fence posts at 10m intervals bearing the words 'CONSTRUCTION EXCLUSION ZONE - NO STORAGE OR OPERATIONS WITHIN FENCED AREA' as per the example on the plan.

PROTECTION OF CONSTRUCTION EXCLUSION ZONE

Inside the exclusion area of the fencing, the following prohibitions shall apply: -

- No mechanical excavation whatsoever.
- No excavation by any other means without arboricultural site monitoring.
- No hand digging without a written Method Statement approved in writing by the Project Arborist.
- No lowering of levels for any purpose (except removal of grass sward using hand tools).
- No construction of a sealed hard surface - except where agreed with the Project Arborist.
- No storage of plant or materials.
- No storage or handling of any chemical, including cement washings.
- No vehicular access.

No fire lighting. In addition to the above, further precautions are necessary adjacent to trees: -

- A 10m separation distance shall be observed between any tree and substances injurious to tree health, including fuel, oil, bitumen, cement (including cement washings), builders' sand, concrete mixing and other chemicals.
- No fire shall be lit such that flames come within 5m of tree foliage; this shall be taken to mean a fire separation distance of 20m from any tree's canopy.

ALL WORKS AFFECTING TREES SHALL BE SUBJECT TO THE REQUIREMENTS OF BS5837:2012.



DO'S

Trees add value to the site, provide shade, improve habitat, improve air quality and are typically protected as part of any planning approval, so their protection is in everyone's interest to avoid costly stoppages and damage.

TREE ROOTS

Spread out a lot further than the branches over a large area and are usually found close to the surface of the soil, making them susceptible to damage.



To help trees survive any proposed changes a minimum amount to undisturbed rooting area needs to be protected or provided to help the tree feed itself and survive this can easily be done by creating a Construction Exclusion Zone. These are normally detailed on a Tree Protection Plan or detailed within an Arboricultural Method Statement. Please look at these before you start work to understand what fencing and ground protection are to be used where.



Tree Protection is not a puzzle, everything you need is on the Tree Protection Plan or can be found in the Arboricultural Method Statement.

- Before work starts erect and maintain the correct fencing and ground protection.
- Tree protection is usually a planning condition and breaches can result in a stop notice, prosecution or fines.

Tree damage can be avoided, if in doubt ask for help. Help avoid costly shut downs and financial penalties.

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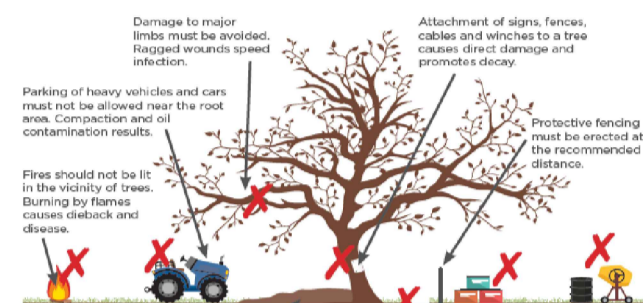
TREE PROTECTION

DON'TS

TREES ROOTS

Many people believe tree roots extend as deep as the tree is high, or simply plug into the ground like carrot, which is untrue.

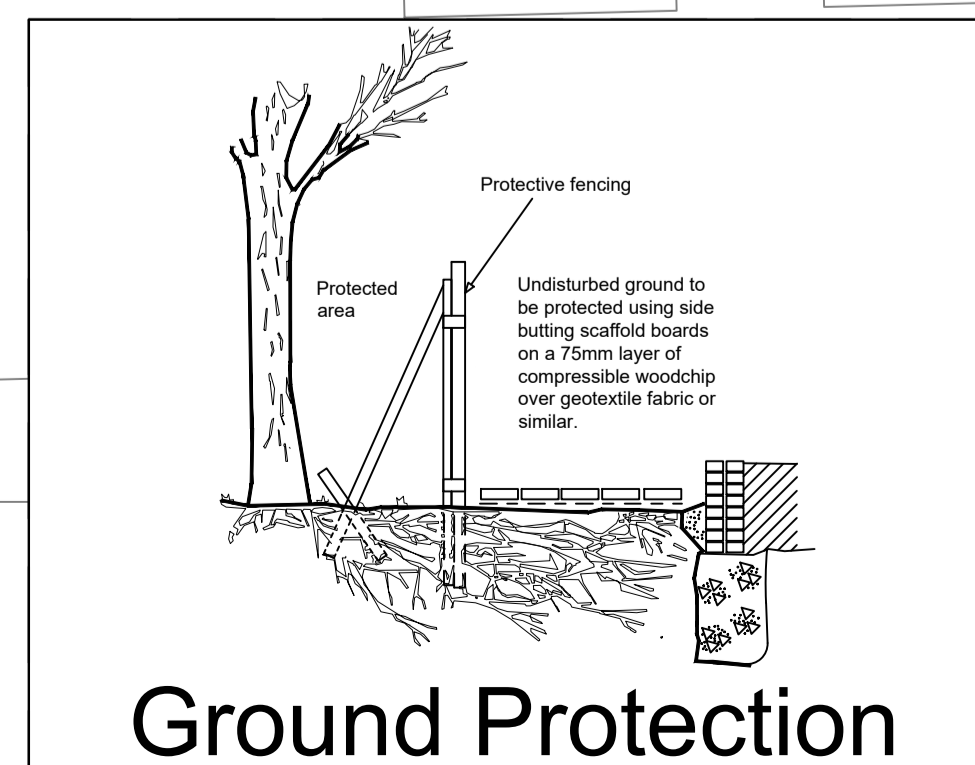
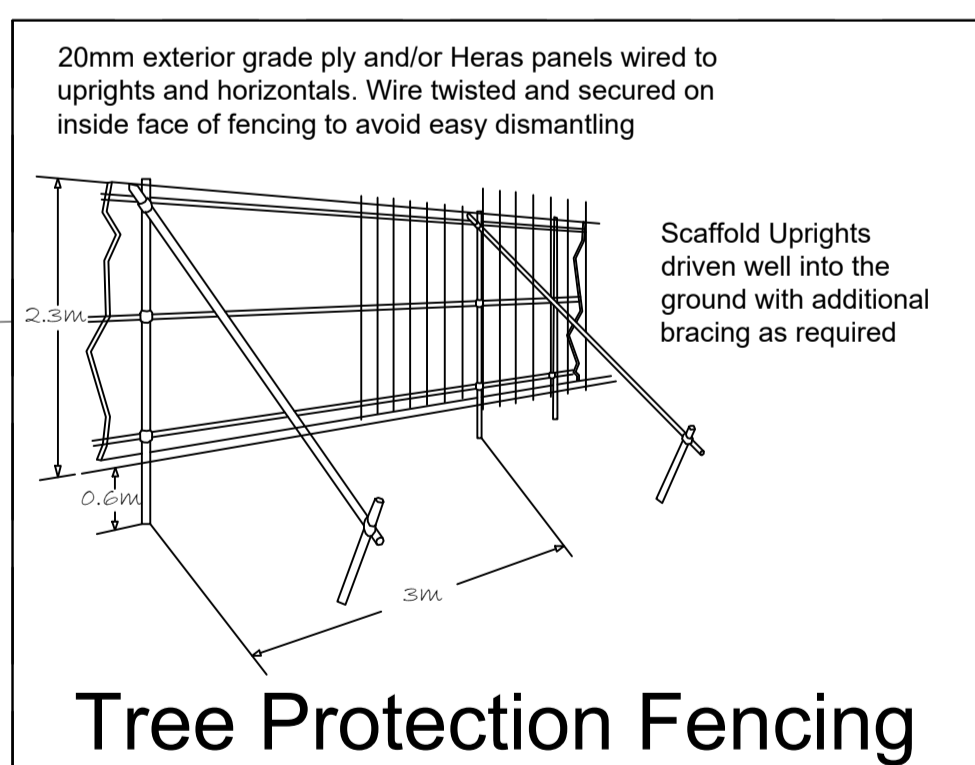
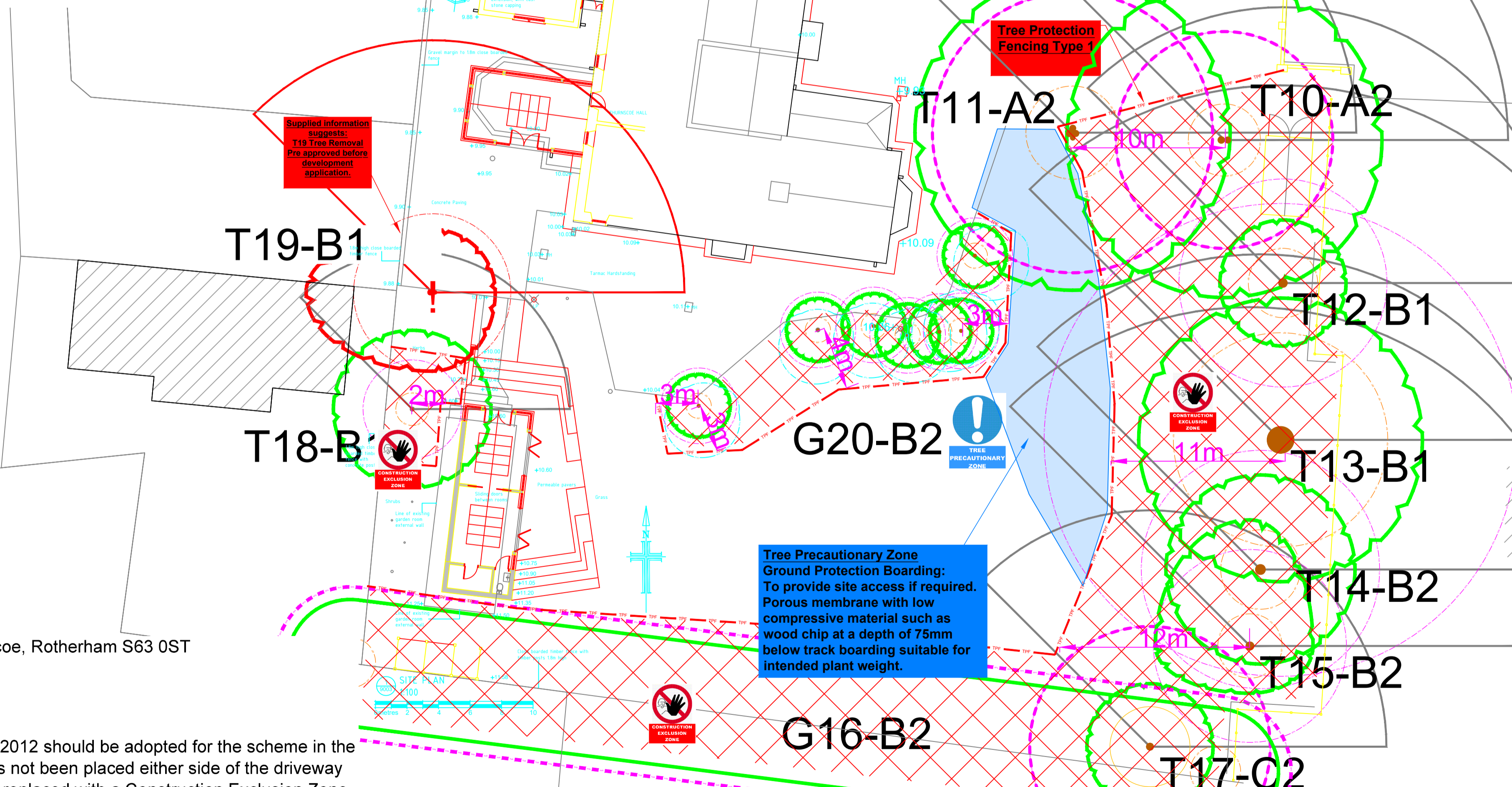
We must all avoid any unauthorised damage to trees. The use of properly positioned protective fencing can prevent tree deaths occurring.



Damage to major trees must be avoided. Suggest excavations should be avoided. Parking of heavy vehicles and cars must not be allowed near the root area. Construction and all construction methods. Piles should not be drilled in the vicinity of trees. Bracing by Heras must not be used. Leaving ground levels lower could cause water ingress. Having ground levels down for only a few weeks and by only several centimetres, can affect tree stability and crown balance. Treeless dig with root area under trees causing instability and crown balance. Storage of materials within root area under trees causing instability and crown balance.

RESULTS OF BREACHING THE CEZ

- **Soil Compaction** Starves roots of oxygen and nutrients and increases water run off the site. X
- **Excavation** Cuts or damages the roots, which can affect a trees health or stability. X
- **Turf or Soil Removal** Even shallow excavations can remove or damage fine feeder roots. X
- **Canopy/Branch Damage** Limits food production and encourages pest or disease. X
- **Chemical Spill Including Cement** Kills roots, starving the tree oxygen, water and nutrients. X
- **Fires** Scorch and burn leaves, stems and branches. X



Site Address: Thurnscoe Hall, High Street, Thurnscoe, Rotherham S63 0ST

Tree Protection Plan

Tree Protection Fencing

Type 1 Tree Protection Fencing in line with BS5837:2012 should be adopted for the scheme in the identified locations and offset distances. Fencing has not been placed either side of the driveway intentionally as the perceived risk is low and instead replaced with a Construction Exclusion Zone

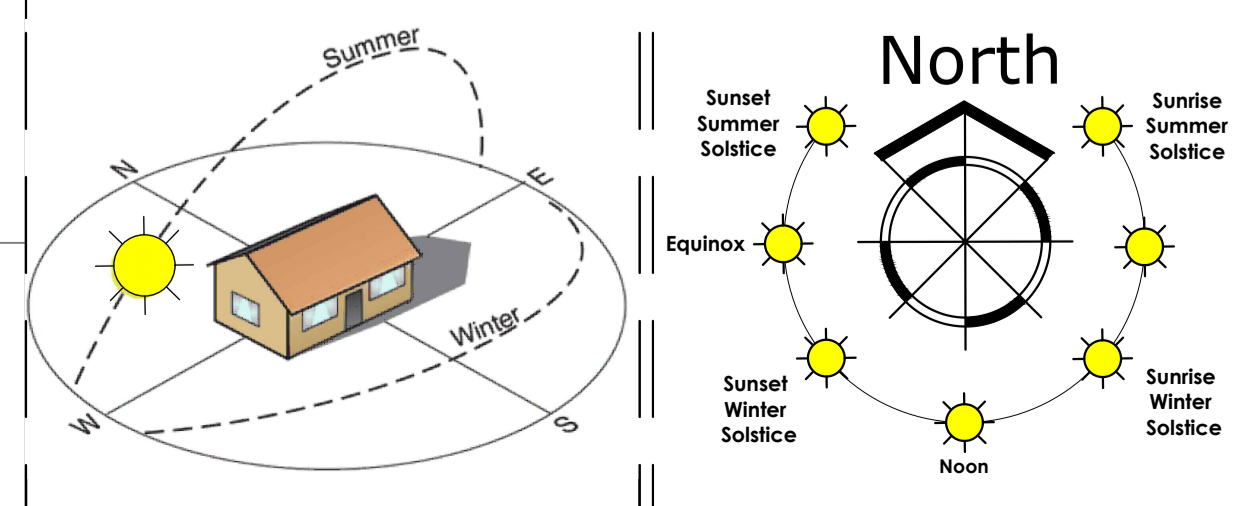
Construction Exclusion Zone

Construction Exclusion Zones are active on the site which prohibits access to construction staff, plant, machinery and storage. Normal access for the resident may be authorised to complete routine garden maintenance that excludes tree pruning/removal.

Tree Precautionary Zone

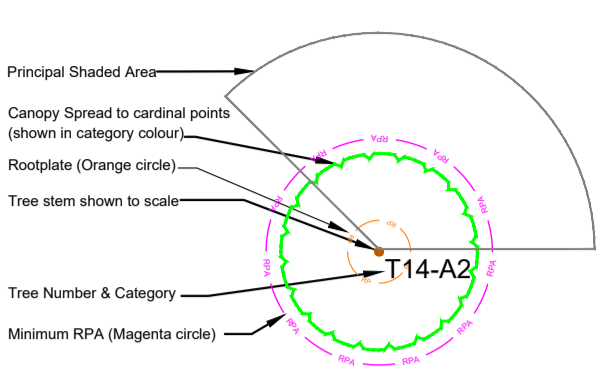
Access from the side elevation to the proposal is expected to be around the east of the property within RPA's of retained trees. Tree Precautionary Zones are in place to deter from ground compaction leading to root damage and reduced vitality. Ground protection as a minimum should include a porous membrane with a low compressive material beneath track matting or similar.

Indicative Sun Path / Altitude



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Individual Tree Symbols



Tree Protection Methods

Construction Exclusion Zone (CEZ) Indicated by the red Net Hatching. These are 'NO-GO ZONES' for site works, storage and operatives. To be protected by appropriate Fencing and/or Ground Protection. These areas shall be identified with signage.

Tree Precautionary Zone (TPZ) Indicated by Blue shading. Tree root activity is likely in these areas and will need to be appropriately protected before the start of the works. Materials and methods need to limit excavation, root loss or damage to soils.

High Risk Tree Protection Fencing Type 1 (TPF) Indicated by the red line. This is to be provided by Braced Heras Fencing or solid panels. Post-holes shall be excavated by powered hand auger or low ground-pressure plant working of ground protection or outside the Precautionary Zone.

Tree Protection Fencing Distance Markers Magenta arrows with distance indicating offset distances from trees to fence lines.

Notes: Plan is based upon an aerial image sourced from Google Earth. As such, precision scaling cannot be guaranteed.

Drainage/Utility layout not provided. Excavation dimensions/battering not provided.

Design	Description
01/11/2023	Preliminary Issue

Client: Pearce Bottomly

Project: Thurnscoe Hall, High Street

Title: Tree Protection Plan

Drawing No: BA12012TPP Status: p

Scale: 1:200 @ A1

Date: 01/11/2023

Drawn By: BS Checked: MM Approved: SB

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