



**Notes**

Do not scale off drawing - refer to the tree data schedule for accurate crown spread measurements.

Depictions of tree canopies are based on measurements taken to four cardinal compass points.

No liability of any kind is accepted for any omissions or inaccuracies in respect of this plan.

All rights reserved.

**NOTES** - Where tree works are proposed to 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.

Existing tree's & vegetation on the site boundaries or overhanging the boundaries from the adjacent land which are to be retained 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 lamper fixings.

Protective fencing shall be erected outside the canopy drip-line or beyond the minimum Root Protection Area (RPA) distance, detailed in the Tree Survey 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.

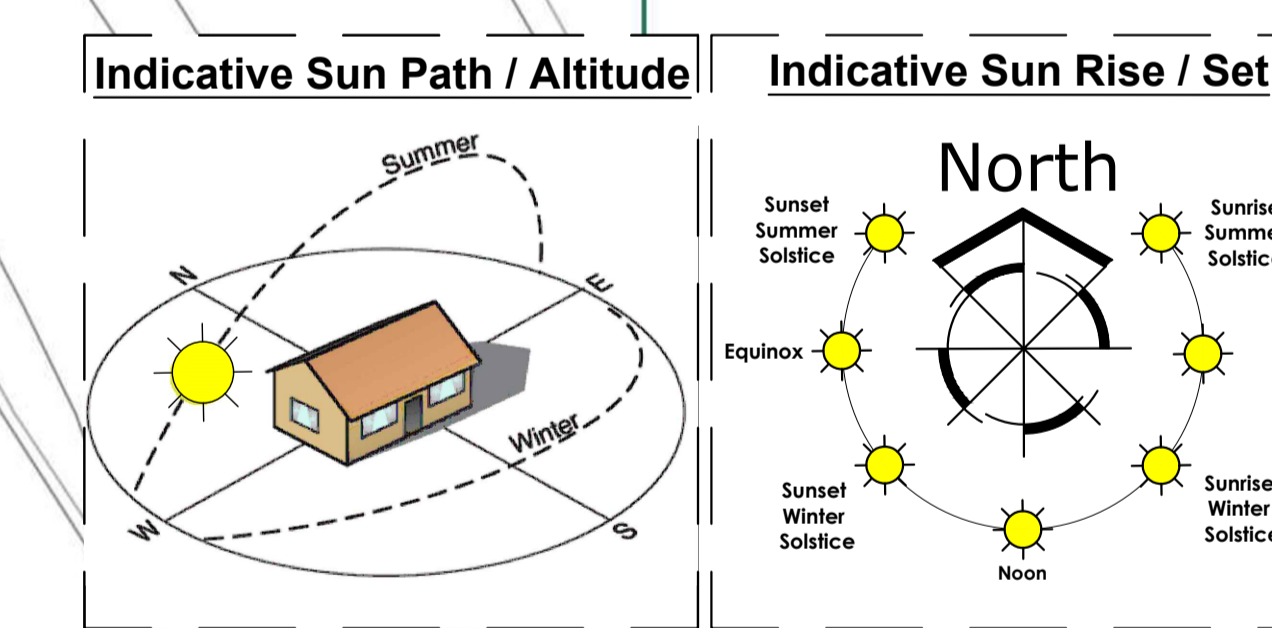
No fire lighting. In addition to the above, further precautions are necessary adjacent to trees: -

- 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	TREE PROTECTION	DON'TS
<p><b>TREE ROOTS</b></p> <p>Spread out a 100 further than the branches over a large area and see exactly found close to the surface of the soil, making them susceptible to damage.</p>	<p><b>TREE ROOTS</b></p> <p>Many people believe tree roots extend as deep as the tree's high, or simply dig into the ground far away from the canopy.</p> <p>We must avoid any unauthorised damage to trees. The use of temporary positional protective fencing can prevent tree deaths occurring.</p> <p>To help their survival any proposed change in structure should be undertaken in accordance with a Tree Protection Plan or should be written in a Construction Exclusion Zone. These are normally detailed in the Protection Plan or should be written in a Construction Exclusion Zone. These are normally detailed in the Protection Plan or should be written in a Construction Exclusion Zone. These are normally detailed in the Protection Plan or should be written in a Construction Exclusion Zone.</p>	<p><b>TREE ROOTS</b></p> <p>Many people believe tree roots extend as deep as the tree's high, or simply dig into the ground far away from the canopy.</p> <p>We must avoid any unauthorised damage to trees. The use of temporary positional protective fencing can prevent tree deaths occurring.</p>
<ul style="list-style-type: none"> <li>• This Protection is not a substitute for any other work you need to do in the Arboricultural Method Statement.</li> <li>• Before work starts ensure you maintain the correct fencing and ground protection.</li> <li>• The protection must be maintained throughout the duration of the work and any changes to the protection must be recorded in writing.</li> </ul> <p>This document can be used as a guide for help. Help avoid costly shut downs and financial penalties.</p>	<p><b>RESULTS OF BREACHING THE CEZ</b></p> <ul style="list-style-type: none"> <li>• Soil Compaction: Stresses roots of saplings and prevents them from growing and water run off the site.</li> <li>• Excavation: Cuts or damages the roots, which can result in tree death or injury.</li> <li>• Fuel or Oil Spills: Fuel, oil, and other substances can harm or damage the tree's health and root system.</li> <li>• Chemical Spill: Includes cement, lime, acids, herbicides, and other chemicals that can harm the tree's health and root system.</li> <li>• Physical Damage: Includes tree roots being cut, crushed, or otherwise damaged.</li> </ul>	<p><b>Tree Pruning T4</b> The tree requires removing however the canopy may be removed to retain a standing stem of 5m for ecological benefit.</p> <p><b>Tree Pruning T5</b> Crown lift to 5m above the proposed highway limiting wound size to 50mm removing deadwood over 40mm and any other dangerous branches.</p>



**BS5837:2012 Tree Categories**

- Category A:** Trees of high quality with an estimated remaining life expectancy of at least 40 years. Groups shown as shaded shapes.
- Category B:** Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Groups shown as shaded shapes.
- Category C:** Trees of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 100 mm. Groups shown as shaded shapes.
- Category D:** Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. Groups shown as shaded shapes.

**Tree Symbols**

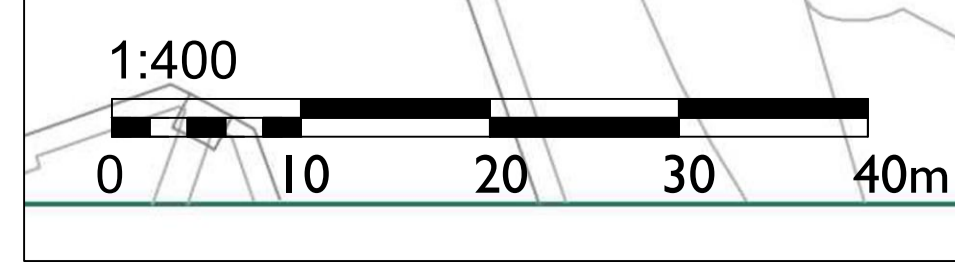
- Tree symbols shown as dashed centre line. Colour represents category (see above).
- Tree Group Removal: Shaded red.
- Full removal dashed red line.

**Tree Management Requirements**

Trees to be retained within the site with the guidelines set out in BS5837.

Trees to be retained and protected in the site with BS5837 through retaining the existing pruning. Pruning to be in line with BS5837.

Trees to be removed to enable the scheme to be undertaken in line with BS5837.



**BARNES associates**

Unit 1 Foundry Yard, New Row  
Boroughbridge YO51 9AX  
01423 322 371  
info@barnesassociates.co.uk  
barnesassociates.co.uk  
Company Number: 10438116  
Registered in England and Wales

Client	Keepmoat
Project	Land off Keesforth Road, Dodworth
Drawing Title	Arboricultural Impact Assessment