

**TREE T1 (OAK)**  
 The scheme has been designed to retain tree T1 which is subject to a TPO.  
 It was noted that previous site activity has resulted in earth being piled up in the Root Protection Area (RPA) of T1. The new levels of the earthworks are shown in the topographical survey. To maintain the health and long term retention of the tree, it is proposed to clear the excess soil and reinstate the original ground level. Compaction damage in the RPA will be remediated.  
 The construction of the proposed road is planned to follow the original site levels, therefore it can be constructed without a change in level at the boundary of the RPA.  
 Please refer to drawing 10-5610-201A for details of finished levels on the proposed road (tree report Appendix D).  
 Plot 39 has been moved further south to provide construction space and to allow for the tree's future growth.



**Key**

- Tree retention category A**  
High quality with an estimated life expectancy of at least 40 years
- Tree retention category B**  
Moderate quality with an estimated life expectancy of at least 20 years
- Group retention category B**  
Moderate quality with an estimated life expectancy of at least 20 years
- Tree retention category C**  
Low quality with an estimated life expectancy of at least 10 years, OR young tree with a stem diameter below 150mm
- Group retention category C**  
Low quality with an estimated life expectancy of at least 10 years, OR young tree with a stem diameter below 150mm
- Tree removal category U**  
Poor condition with an estimated life expectancy of less than 10 years
- RPA**  
minimum Root Protection Area
- Proposed tree removal**  
To facilitate development
- Proposed tree removal**  
Due to poor condition
- Tree protection fencing**  
see Detail 1 and method statement
- Construction Exclusion Zone**  
see method statement

Trees have been surveyed and categorized as per the recommendations and guidance in BS 5837:2012 Trees in relation to design, demolition and construction.

This drawing is to be read in conjunction with the Arboricultural Survey report.

This drawing is to be reproduced in colour.

**ARBORICULTURAL METHOD STATEMENT**  
**TREE PROTECTION FENCING**

Tree protection fencing must be installed in the position as shown on the Tree Protection Plan to form a Construction Exclusion Zone, before any other works on site can be undertaken.

Tree Protection Fencing should be set out as per Section 6.2 of BS5837: 2012 and will comprise a scaffold framework, consisting of vertical and horizontal scaffolds with vertical tubes spaced at a maximum of 3m intervals and driven securely into the ground. Weld mesh (Heras or similar) panels will be securely fixed on to this framework with scaffold clamps. Tubes will be firmed into holes in the ground made with post hole boring equipment. Bracing poles will be fixed to the inside of the barrier to ensure maximum rigidity, and should be located to avoid contact with structural roots.

See Detail 1 for details of the protective fencing to be employed in all circumstances, where existing site conditions allow. Fencing is to be erected as shown on the drawing. All fencing must be fixed in position with driven scaffold poles so that they cannot be moved during the construction period.

All-weather notices, A4 size, shall be attached to the tree protection fencing every 10m at 1.5m high with the words: 'Tree Protection Fence—strictly no access'.

**REMEDICATION OF ROOT PROTECTION AREA OF TREE T1**

The soils which have been piled up in the RPA of tree T1 will be removed and the previous ground level reinstated.

Following the removal of excess soil, the remaining ground will be aerated and de-compacted.

Surface compaction will be relieved using an air spade, moving the soil in situ to aerate and de-compact.

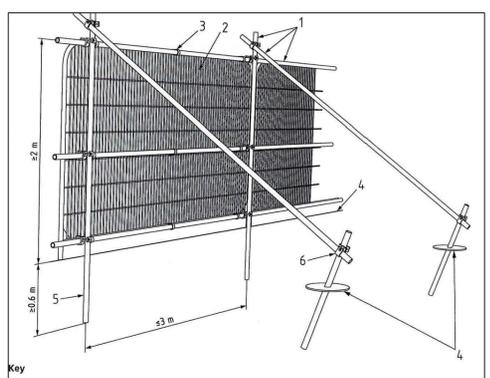
Deeper soil compaction to be alleviated using an air lance to inject compressed air, creating fissures and aerating the soil.

**FOOTPATH CONSTRUCTION IN THE RPA**

No dig construction with cellular confinement system (Cell web, or similar approved) to be installed and backfilled with clean aggregate, to be finished with porous paving.

The new surface must be established above the existing levels of the RPA. The ground must not be skimmed to establish the new hard surface at the former ground level. A geo-textile membrane will be laid out in position (to allow drainage and separation and prevent pollution of roots). A Cellular Confinement System (CCS) will be pinned out in position, using road pins and taking care to avoid any roots. The CCS will be backfilled with clean aggregate (no-fines stone to allow water percolation and gaseous exchange). The first layer of CCS must be infilled by hand, to prevent any machinery from tracking over any unprotected root protection areas. The subsequent layers of CCS must be infilled with machinery only running on filled CCS and not the exposed surface of the RPA, by starting work from outside the RPA, working inwards.

Construction will not be carried out during wet weather, and will be undertaken when the ground is driest and least prone to compaction.



**Detail 1 - Tree Protection Fencing (NTS)**

**FOR INFORMATION**

Rev.	Date	Comments	Drawn	Chkd

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**Project**  
 Cliff Hill, Denby Dale

**Title**  
 Tree Protection Plan and Method Statement

<b>Project No.</b> SF 3282	<b>Drawing No.</b> TPP01	<b>Rev.</b> A
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<b>Scale</b> 1:500 @ A1	<b>Date</b> 12.10.23
<b>Drawn by</b> DR	<b>Checked by</b> MS

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