

ARBORICULTURAL IMPACT ASSESSMENT

EVALUATION OF PROPOSED TREE REMOVAL AND NEW TREE PLANTING

14 trees and 14 groups will require removal to implement the proposed development.
3 trees and 3 groups are category B; trees of moderate quality and value with a minimum 20 years life expectancy.

11 trees and 11 groups are category C; trees of low quality and value with a minimum 10 years life expectancy, or young trees of low value with a stem diameter less than 150mm. A young tree in category C should not be regarded as a significant constraint as it can be easily replaced with new planting.

The removal of trees will be mitigated with new tree planting, as indicated on drawing SF3282 LL01. 58 new trees will be planted, including 16 heavy standard trees (girth 12-14cm), 30 extra heavy standard trees (height 4-4.5m, girth 14-16cm) and 12 Feathered (3/4m high).

Appropriate species selection will take account of the mature tree sizes and existing available space and site conditions. This will ensure new tree planting will successfully establish and will have sufficient space (above and below ground) and light requirements to attain a full term healthy life.

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 (Appendix D).

PLOT 39 IS LOCATED 13M FROM TREE T1. There will be 2.5m between the edge of the canopy and the proposed house. This will provide construction space and allow for the tree's future growth. 13m from the side elevation of the house would be an acceptable distance for a mature oak tree.

IMPACT OF PROPOSED POS FOOTPATH IN RPA. The RPA of T1 is 290m². The proposed footpath will cover 20m² of the total RPA. This represents an impact of 7% of the total RPA. This is well within the tolerance set out in BS5837, which recommends new hard surfacing should not exceed 20% of the RPA.

To minimize the impact of construction in the Root Protection Area (RPA) the proposed footpath must be installed using 'no dig' construction techniques which utilize a cellular confinement system (e.g Cell web, or similar approved) back filled with clean aggregate. This system can be installed directly onto the existing ground levels, without the need for excavation and therefore prevents root severance. The porous system allows water permeation and gaseous exchange to the root zone. The cellular confinement system spreads point loads, which minimizes soil compaction in the RPA.

Proposed tree removal to facilitate development

Trees proposed for removal to implement the design.

Tree No.	Species	Proposed Works	Category
T4	Hawthorn	Removal	C2
T5	Oak	Removal	C2
T8	Hawthorn	Removal	C3
T9	Hawthorn	Removal	C3
T10	Hawthorn	Removal	C3
T14	Hawthorn	Removal	C3
T18	Cherry	Removal	B3
T20	Holly	Removal	B3
T28	Oak	Removal	B2
T31	Hawthorn	Removal	C3
T32	Hawthorn	Removal	C3
T33	Oak	Removal	C3
T34	Oak	Removal	C2
T35	Whitebeam	Removal	C3

Total 14 individual trees

Proposed group removal to facilitate development

Groups proposed for removal to implement the design.

Tree No.	Species	Proposed Works	Category
G2	Mixed species	Removal	B2
G3	Mixed species	Removal	C3
G7	Hawthorn	Removal	C3
G11	Hawthorn	Removal	C3
G13	Holly, Hawthorn	Removal	C3
G15	Sycamore	Removal	C1
G16	Holly, Hawthorn	Removal	B2
G17	Mixed species	Removal	C3
G22	Mixed species	Removal	C3
G24	Mixed species	Removal	B3
G25	Mixed species	Removal	C2
G27	Mixed species	Removal	C3
G29	Holly, Hawthorn	Removal	C3
G30	Hawthorn, Elder	Removal	C3

Total 14 tree groups

Proposed tree removal due to poor condition

The following trees are recommended to be felled for management reasons, irrespective of the development proposals. These trees are assessed as Category U, those in poor condition which cannot realistically be retained in the context of the current land use for longer than 10 years.

Tree No.	Species	Proposed Works	Category
G12	Mixed species	Removal	U
T19	Ash	Removal	U
T21	Elder	Removal	U



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.

FOR INFORMATION

Rev.	Date	Comments	Drawn	Chkd
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Project **Cliff Hill, Denby Dale**

Title **Arboricultural Impact Assessment**

Project No. SF 3282	Drawing No. AIA01	Rev. -
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Scale 1:500 @ A1	Date 12.10.23
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Drawn by DR	Checked by MS
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