Arboricultural Impacts

Impacts	Nos. of trees
Trees to be removed	1
Groups / Hedges to be removed (Partial removal of groups)	0 (4)
Trees with proposed incursions into RPAs	8
Groups / Hedges with proposed incursions into RPAs	3
Trees that will require pruning	4
Groups / Hedges that will require pruning	0
Trees to be transplanted	0
Groups / Hedges to be transplanted	0

No.	Species	Proposed structure	Incursion
G03	Various	Hard surface	RPA
G04	Various	Hard surface	RPA & crown
G11	Various	Hard surface	RPA
T06	Pine	Hard surface	RPA
T10	Common Beech	Hard surface	RPA
T11	Common Horse Chestnut	Hard surface	RPA & crown
T13	Common Horse Chestnut	Hard surface	RPA & crown
T14	Silver Birch	Hard surface	RPA & crown
T19	Silka Spruce	Foundation	RPA

Arboricultural Impacts - RPAs (Area)

No.	Species	RPA	Incursion	
			(m^2)	(%)
G03	Various	162.9	9.6	5.9
G04	Various	33.0	6.3	19.1
G11	Various	221.7	35	15.8
T06	Pine	152.2	13.3	8.7
T10	Common Beech	268.2	56	20.9
T11	Common Horse Chestnut	58.6	18.4	31.4
T13	Common Horse Chestnut	191.1	50.8	26.6
T14	Silver Birch	30.6	6.9	22.6
T19	Silka Spruce	319.2	11.6	3.6

Tree Work Schedule

No.	Species	Works	Category
G02	Various	Partial removal of group: Fell trees to ground level, grind out stumps	C2
G05	Various	Partial removal of group: Fell trees to ground level, grind out stumps. Crown lift remaining trees to achieve 4m clearance over the current soil level.	B2
H04	Common Beech	Partial removal of group: Fell trees to ground level, grind out stumps	C2
T04	Common Lime	Fell tree to ground level, remove stump	U
T08	Silver Birch	Fell tree to ground level, remove stump	C1
T09	Silver Birch	Fell tree to ground level, remove stump	C1
T11	Common Horse Chestnut	Prune: Crown lift trees to achieve 4m clearance over the current soil level in region where the proposed hard surface will be installed.	B1
T12	Staghorn sumac	Fell tree to ground level, remove stump	C1
T13	Common Horse Chestnut	Prune: Crown lift trees to achieve 4m clearance over the current soil level in region where the proposed hard surface will be installed.	B1
T14	Silver Birch	Prune: Crown lift tree to achieve 4m clearance over the current soil level in region where the proposed hard surface will be installed.	B1
T15	Cedar	Fell tree to ground level, remove stump	B13
T16	Common Beech	Prune: Crown reduce northern aspect by 2m	B1

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.
All arising's are to be removed and the site is to be left as found.
Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

No. of individual trees to be removed

U	A	B	C
1	0	1	3

No. of groups / hedges to be removed

U	A	B	
0 (0)	0 (0)	0 (1)	0 (2)

( ) = Partial removal of a groups

Arboricultural Method Statement

All tree work is to be undertaken in accordance with British Standard Please refer to Arbtech Consulting Ltd. Tree Schedule, Arboricultural Method Statement and Tree Protection Plan, for full details of all surveyed trees and how all aspects of the development maybe implemented without detriment to retained trees.

'No Dig' Surfacing

Multi-dimmensional confinement system
Existing vegetation may be removed with hand tools or sprayed with an approved non residual herbicide such as 'Glyphosate'. The new hard surfacing will be constructed using a 'No Dig' surfacing situated entirety above the existing soil surface and where needed using a proprietary cellular confinement system (GeoWeb or similar) laid over a bi-axel geo-grid (tensar TriAx or similar). Prior to this any small hollows on the surface may be filled with clean sharp sand (not builders sand) to a maximum depth of 150mm. The 'GeoWeb' is to be back filled by hand with a no-fines aggregate of 20mm - 30mm. The area of 'GeoWeb' will be covered with a permeable geotextile fabric and the finished wearing course laid on top. Edge supports of an appropriate size and strength should be set above ground level and secured with haunching or steel pins driven into the ground. the outer edge of the supports may be banked up with clean top soil.
NOTE: The use of a multi-dimensional confinement system will affect the finished level of the hard surfacing by raising the levels and needs to be taken into consideration when designing foundations and setting the finished floor levels of adjacent buildings.

Utility apparatus

Underground utility apparatus
Mechanical trenching for the installation of underground apparatus and drainage severs any roots present and can change the local hydrology in a way that adversely affects the health of the tree. For this reason, particular care should be taken in the rout and methods of installation of all underground apparatus. Wherever possible, apparatus should be routed outside of RPAs. Where this is not possible, it is preferable to keep apparatus together in common ducts, all inspection chambers should be sited outside of the RPAs.
Where underground apparatus is to pass within the RPAs, detailed plans showing the proposed route should be drawn up in conjunction with the project arboriculturist. In such cases trenchless insertion methods should be used with entry and retrieval pits being located outside of the RPAs. If this option is not feasible and providing roots can be retained and protected excavations should be undertaken using hand held tools (air-spade, forks, shovels) or a combination of trenchless and manual excavation (broken trench).
Any design and installation should be undertaken in accordance with the National Joint Utilities Guidelines (NJUG).
Above-ground utility apparatus
Above-ground apparatus(including CCTV cameras and lighting) should be sited to avoid the need for detrimental tree pruning, as such the current and future crown size of the tree should be assessed.
Tree branches can be pruned back with care to provide space, though it is not appropriate for repetitive and significant tree work to bean initial design solution unless this is a suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010



Rev:	Date:	Notes:
A	18/09/23	Amended proposal
B	13/10/23	T10 retained
C	13/11/23	Amended proposal to reduce impact to T10

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Project:
Shipley Hall Nursing Home - The Field,
Shipley,
Heanor,
DE75 7JH

Client:
Cygnet Healthcare

Drawing:
Arboricultural Impact Assessment

Based on:
001017-ABDS-V1-XX-DR-A-2000-Rev.D

Drawing No:		Rev:
Arbtech AIA 01		C
Date:	Scale:	Drawn:
Nov 2023	1:150 @ A0	JCH

Key:
Tree Nos.: T01 | Tree Canopies: | Trunks:
RPAs: | Category 'U' trees: | Category 'B' trees:
Category 'B' groups: | Category 'C' trees: | Trees to be removed: T04
Existing Site (Topo.): | Proposed Site Plan: | Incursion - Structures:
Incursion - Hard surfacing:

All dimensions should be checked on site. No dimensions are to be scaled from this drawing. Please notify us of any discrepancies found. Arbtech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based.
This drawing has been designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.
This drawing is not to be read as a definitive part of the engineering or construction designs or method statement. Arbtech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.
This drawing was produced in colour - a monochrome copy should not be relied upon.

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