Central Somers Town CIP

Arboricultural Impact Assessment

DECEMBER 2015





ARBORICULTURAL CONSULTANTS

ARBORICULTURAL IMPACT ASSESSMENT

AT

CENTRAL SOMERS TOWN

LONDON

NOVEMBER 2015

SUMMARY

I have inspected all the trees on and near the site that could be affected by any proposed development and list their details in Appendix A. The proposal is the comprehensive redevelopment of Central Somers Town, including the construction of new residential blocks and the demolition of Edith Neville School and Plot 10 and construction of new facilities.

The design layout is constrained by various factors with trees only one aspect. Whilst the design has tried to retain as many trees as possible, restricted space requires that 45 trees and 5 groups are removed to facilitate the development (including 6 recommended for removal on arboricultural reasons). A comprehensive landscape proposal is included in the Planning Submission that includes the planting of 88 new trees.

The retained trees will require robust protection measures and construction must be carried out with care to ensure the long-term potential of the trees. Extensive changes in both hard and soft landscaping has the potential to cause damage and will require careful construction and supervision.

1. Introduction

1.1. Instructions

1.1.1. We are instructed by DSDHA Architects, on behalf of their client the London Borough of Camden, to inspect and report on a number of trees at the existing Central Somers Town site (see fig 1 below for survey extents). We are to report on the tree stock, their current condition, amenity value, and suitability for retention.



Fig 1: Extent of survey

1.2. Drawings and Documents

- 1.2.1. We confirm sight of the following documents and drawings:
 - Existing Site Plans.
 - Topographic plan.
 - Tree Removal & Retention.
 - Proposed tree Planting & Mitigation.
 - Tree Impacts.
 - Proposed Site Surface Plan.

2. Report on site visit

2.1. General

2.1.1. The site was inspected on 15th July 2015 by F Critchley and G. Causey of Arboricultural Solutions LLP. All arboricultural data contained in this report was recorded at that time. Weather conditions were overcast with occasional bright intervals; visibility was satisfactory.

3. Tree inspection and methodology

3.1. Inspection

3.1.1. Trees likely to be affected by any developments were identified and inspected from ground level only and were not climbed. No invasive examination technique (such as increment boring, or internal decay detection) was carried out. As the inspection was visual only, no guarantee, either expressed or implied, of the internal condition of the wood of these trees can be given.

3.2. Marking

3.2.1. The provided site plan was converted for use in Arbortrail tree data software. Where a tree is missing from the supplied topographic survey, it is plotted by eye or triangulation from set points (using a laser rangefinder) and a note made on the comments section of the tree schedule (Appendix A).

3.2.2. Each reference number on the plan refers to a survey sheet entry completed on site to show the following data:

- Sequential tree reference number (recorded on tree survey plan)
- Species Common name followed by the Latin name for the first entry of each different species
- Height in metres
- Trunk diameter in millimetres, measured in accordance with Annex C of BS 5837:2012
- Crown radius measured at the four cardinal points where only one measurement is given, the crown is symmetrical
- First significant branch height and direction of growth
- Crown clearance above ground level
- Life stage (young, semi-mature, early mature, mature, over-mature, veteran)
- General observations, particularly of structural and/or physiological condition, and/or preliminary management recommendations
- Estimated remaining contribution in years (less than 10, 10+, 20+, more than 40)
- 3.2.3. Survey sheet entries are shown at Appendix A of this report.

3.3. Tree categorisation

3.3.1. Trees vary in, size, age, and landscape importance. All trees were categorised in accordance with the British Standard Trees in relation to design, demolition and construction - recommendations BS 5837: 2012. BS Categories have been entered in the tree schedule and are as follows:

U – **Trees unsuitable for retention**. 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.

A - High Category. Trees of high quality with an estimated remaining life expectancy of at least 40 years.

B - **Moderate Category.** Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

C - Low Category. Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.

3.3.2. The site plans were edited to show the above and belowground constraints relative to the existing site, and to inform the developer of the potential conflicts with the tree population (refer to drawing TCP_CNSOMERSTWN_1). The root protection areas (RPAs) have been calculated using Trees in Relation to Design, Demolition and Construction - recommendations BS 5837: 2012. The RPAs of trees implicated in the design proposal have not been adjusted in shape to take into account the existing or past site conditions such as the presence of roads, structures and underground services. Whilst the presence of roads and building foundations may restrict root spread, hard surfaces such as tarmac footpaths are likely to have roots present beneath them. Where foundations or other major structures are planned within the theoretical RPAs of retained trees it is recommended that, a test trench is excavated by Air Spade to assess the actual presence of roots.

3.3.3. The trunk diameter circle and crown outline shows the BS Category in the following colours:

Category U	Dark red
High Quality (A)	Light green
Moderate Quality (B)	Mid-blue
Low Quality (C)	Grey

3.3.3. Trees in Relation to Design, Demolition and Construction - Recommendations BS 5837: 2012 do not include arguments for or against development, or for the removal or retention of trees. Where development is likely to occur the standard provides guidance on how to decide which trees are appropriate for retention.

4. Brief Site Description

4.1. General

4.1.1. The proposed development area is bounded by Coopers Lane flats to the east, Chalton Street to the west and includes the open spaces at Brill Place, Polygon Road and the Edith Neville School.

4.1.2. Despite the location of the site close to Kings Cross and St Pancras rail stations the area is relatively quiet with a lack of heavy traffic. The area benefits from a good population of early-mature and mature trees with two distinct open spaces and associated green infrastructure. The current layout provides an almost 'wooded' feel to the open spaces and helps soften the built environment.

4.2. Tree Preservation Orders

4.2.1. The Town and Country Planning (Tree Preservation) (England) Regulations 2012 allows for trees either as groups, or individuals, or as woodlands, to be protected by Tree Preservation Orders (TPO). These have the effect of preventing the cutting down, topping, lopping, uprooting, wilful damage or wilful destruction of trees except in certain circumstances, other than with the consent of the local planning authority.

4.2.2. A Conservation Area (CA) is an area designated by the Local Planning Authority as one of "special architectural or historic interest, the character or appearance of which it is desirable to preserve or enhance". Special controls exist with regard to demolition and alteration of buildings; Listed Building Consent must also be obtained for any demolition, even if the building is not itself listed. Similarly, trees are given some protection with the requirement for the local authority to be given six weeks written notice before carrying out any work on trees; this gives the authority time to decide if a TPO is necessary.

4.2.3. We are unaware if any of the trees are covered by a TPO but it is unlikely given that they are the responsibility of the London Borough of Camden; it is advised that this is confirmed prior to any works.

4.3. Development Proposal

4.3.1 The proposed development includes the demolition of the Edith Neville School and construction of a new school on the existing site. To the south of Brill Place will be a 25 storey residential block and to the north new residential properties and community garden and hall.

4.3.2. The Edith Neville School will be demolished and a 2-storey building constructed creating new public space to the south to link with the existing amenity areas and residential space to the west of the site. There will be a new community hub to the north of the public open space in Polygon Road (Plot 10), including a play project, sports pitch and residential

properties. Refer to the Masterplan by DSDHA for detailed information of development layout and drawing TCP_ CNSOMERSTWN_2 for the relationship between the trees and the proposed layout.

5. Tree Population

5.1. Tree schedule

5.1.1. Refer to appendix A for detailed records of individual trees and drawing Tree Constraints Plan (drawing number TCP_CNSOMERSTWN_1) for the locations of trees and groups. The tables below refer only to individual trees and not groups or individual trees within groups.

5.2. Species diversity

Species	Number
Cherry spp.	3
Apple	1
Ash spp.	16
Birch spp.	7
Maple spp.	44
Pear	2
Hawthorn	1
Willow	1
Hornbeam	1
Alder	5
Lime	1
Black locust	14
London plane	36
Rowan spp.	9
Sweet chestnut	1
Sweet gum	4
Tulip tree	3
Total:	149

5.2.1. The tree population has a reasonable number of species present for the size of the area implicated in the development proposal although some species are represented by a single specimen; there are no rare or unusual species present.

5.3. Age distribution

Age class	Number
Semi-mature	11
Early-mature	76
Mature	48
Young	13
Over-mature	1
Dead	0
Total:	149

5.3.1. Whilst the number of young trees would not be expected to sustain the local tree population, this is a managed site and trees are likely to be replaced as they reach the end of their safe remaining life

5.4. Grade classification

Tree grade	B\$5837:2012 Definition	Number
A	High	5
В	Moderate	97
С	Low	41
U	Remove	6
	Total:	149

5.4.1. The tree categories are weighted to the moderate category and reflects the importance of the trees in an urban environment. There are five trees of high landscape value reflecting their prominent location and visibility in the street scene. Six trees are recommended for removal on arboriculture grounds.

6. Arboricultural Impact Assessment

6.1. Summary of impact

Impact	Reason	Low value (Cat C & U) trees	Moderate value (Cat B) trees	High value (Cat A) trees	Potential design & mitigation techniques
Trees to be removed	Building construction and/or surfacing	Trees 113, 114, 128, 173, 174, 176, 181, 205, 206, 207, 241, 255, 256, 257, 258, 263, 266 Groups G1, G2, G3, G4	Trees 122, 123, 126, 127, 129, 130, 132, 133, 164, 165, 180, 207, 215, 220, 221, 222, 225, 226, 262 Group G5	Trees 108, 159, 178	Replacement trees can be planted following completion of the development to compensate for any necessary removals
Tre	Arboricultural reasons	Trees 204, 227, 182, 242, 155, 246			Replacement trees as part of a proposed landscape scheme.
Retained trees to be managed	Enabling works/space for development	Trees 125, 208	Trees 105, 106, 107, 131, 136, 137, 138, 167, 224		Crown reduction and lifting required to clear the required construction access. It is recommended that the pruning specification is finalised once the site is pegged out to avoid discrepancies between the plot positions on the plans and on site.
	Removal of existing structures		Trees 171, 172, 264, 265,		Robust protection measures required adjacent to areas of demolition, particularly Edith Neville School. Ground protection required.
	Removal of existing surfacing	All retained trees	All retained trees	All retained trees	Use of hand tools only within the RPAs of retained trees. Ground protection required and no-dig techniques when working in RPAs.
p dge d	Material storage/washing areas/welfare areas	All retained trees	All retained trees	All retained trees	All material storage/washing areas/welfare areas to be located away from RPAs of retained trees.
Retained trees that may be damaged	Temporary access to construction areas	All retained trees	All retained trees	All retained trees	All construction access will be routed outside RPAs of retained trees or will be restricted to areas of ground protection and existing access/hard surfacing.
that may	Installation of new structures	All retained trees	All retained trees	All retained trees	New buildings/structures encroach into the RPAs of retained trees and special precautions are required to prevent long-term damage.
led trees	Installation of new surfacing	All retained trees	All retained trees	All retained trees	Construction of any new paths/parking within RPAs to be undertaken using hand tools only and all roots over 25mm protected & retained.
Retain	Excavations or ground level changes	All retained trees	All retained trees	All retained trees	No changes in levels within the RPAs of retained trees unless using a cellular confinement system or carrying out a trial exploration using an Air Spade.
	Installation of services*	All retained trees	All retained trees	All retained trees	New services should be routed outside the RPAs of retained trees. If this is not practicable, trenchless techniques should be adopted where possible or hand excavation carried out.
	Landscaping works	All retained trees	All retained trees	All retained trees	All landscaping works with RPAs of retained trees to be undertaken using hand tools only

6.2. Arboricultural Impact Assessment

6.2.1. The root protection areas (RPAs) have been calculated using Trees in Relation to Design, Demolition and Construction - recommendations BS 5837: 2012. The British Standard provides a way of determining the volume of soli required to maintain healthy growth and ensure the long-term potential of a tree. However, in our experience, the actual root spread may exceed or be considerably less than the calculated volume predicts. It is for this reason that we recommend the use of trial excavation by Air Spade when constructing near or within the RPA. In addition, certain species are tolerant of root severance e.g. London plane and lime can quickly regenerate new roots when severed.

6.2.2. The proposed layout requires the removal of 45 trees and 5 groups to achieve the desired design (refer to drawing TCP_CNSOMERSTWN_2); 6 trees are recommended for removal on arboricultural grounds; table 6.1 above summarises those losses and the trees that may be implicated in the proposal. In addition to the constraints imposed on the site from the existing tree population there are a number of additional constraints that dictate the final layout of the site and are outside the scope of this report.

6.2.3. To the south boundary of Brill Place, the construction of a 25 storey residential block necessitates the removal of trees T108, T205, 206 and 207. The crowns of trees T105 and T107 will require some minor pruning on the west side to ensure clearance for construction access. The crowns of the trees are currently unbalanced and therefore the pruning may benefit the overall crown shape for future growth. The construction includes a basement level extending beyond the footprint of the main build. There is a minor encroachment into the RPA of tree T105, however, the excavation will require care to ensure damage to the roots is minimised by exposing the roots and carefully pruning them back beyond the outer face of the proposed basement excavation.

6.2.4. Trees T113, T114, T122, T123 and potentially T215 (subject to Air Spade investigation) are to be removed to allow re-profiling of the open space to improve access and visibility. The retention of surrounding trees to the outside of the open space will help mask these losses. The changes in levels may impact on tree T124 and to a lesser extent T125 and preliminary excavation by Air Spade may be required to determine the extent of any root pruning required. Tree T125 is of drawn form with a small crown originating at height and consideration should be given to allowing its removal and replacement with a tree of long-term potential.

6.2.5. The construction of a residential block to the north of Brill Place will require the removal of trees T126 – 130 inclusive and 220 – 222 inclusive. Trees retained to the west of the build will provide some screening. At the junction of Purchese Street and Hampden Close a new residential block will be constructed requiring the removal of trees T132, T225, T226, T133 and group G1 (within the existing community garden). The existing tree in the community garden (T131) is to be retained and this will require careful construction as there is an encroachment into the RPA of the tree from the footprint of the new build. The crown of the tree will also require pruning to provide the necessary clearance for construction access. The tree has

clearance to the east elevation of the new block. Tree group G1 consists of young birch trees some of which are in raised planters. There may be potential to transplant some of these trees to other areas on site or used elsewhere in the Borough. A limiting factor may be the close planting leading to roots being intertwined. Trees T136 – T138 will require crown reduction on the south side to provide construction clearance. The trees have unbalanced crowns with growth to the south as a result of suppression from adjacent trees and the pruning will help 'balance' the crowns. It is likely that long-term management will be required to maintain a satisfactory clearance to the north elevation of the new block.

6.2.6. The demolition of the existing Edith Neville School and construction of the new facility requires that robust protection measures are in place for retained trees but also requires the removal of trees T176, T178, T180, T181, T256 – T258, T262, T263, T266, and groups G4 and G5. Trees T173 and T174 require removal as they obstruct the proposed footpath, the trees are low value and generally of poor form. The loss of the majority of these trees is not significant in terms of the effect on the overall amenity value, however, the loss of trees T178 and T262 (grade A and B) is significant and will have an impact on the street scene. There is little suitable space on the east elevation of the proposed new school for replacement planting and consideration should be given to extending the planting of new trees on the west side of Purchese Street. This will require approval from the Council and other constraints may be in force, but additional planting would help mitigate the loss of two mature trees.

6.2.7. The redevelopment of Plot 10 will require the removal of trees T159, T164, T165, T246, T255 and group G3. In general, the loss of the majority of these trees will have a minor impact on the overall amenity of the area due to the presence of other trees, however, T159 is of high value and prominent in the street scene.

6.2.8. The redevelopment of the existing open spaces will include an additional area gained from a change in the south boundary of the Edith Neville School which will provide a continuous landscaped area from Chalton Street the junction of Brill Place and Midland Road.

6.2.9. The construction of a new residential block at the south end of Charrington Street requires the removal of trees T256, T257 and T258. There is a minor encroachment into the RPA of tree T167 that will require a hand excavated trench to sever any roots crossing into the area of excavation for the foundations. The crown of the tree will require some reduction to clear the construction access.

6.2.10. The development proposal will have a broad impact on the majority of retained trees as a result of extensive planned changes in hard and soft landscaping throughout the site. The removal of hard surfacing within the RPAs of retained trees can be very damaging as roots may be shallow and tracking beneath the hard surfaces. The use of mechanical plant to break up and scrape off the old surface can lead to roots being ripped out the ground and therefore this work requires care, and should be restricted to hand tools. It is common for roots to be found at the soil/grass surface in soft landscaped areas, particularly if the trees are located on made-up ground. The design and implementation of any development must therefore take into account that there should be no level changes within the RPAs unless trial excavation by Air Spade confirms that significant roots are not present.

6.3. Mitigation

6.3.1. With reference to Section 6.2.1., the current proposal requires the removal of 17 C grade trees and 4 groups, 19 B grade trees and 1 group and 3 A grade trees. Whilst this represents a significant number, many of the losses are in areas where retained trees will help mask those losses. A comprehensive landscape proposal is included as part of the Planning Submission and is summarised in the Design & Access Statement (DSDHA).

6.3.2. The new school site will benefit from the provision of 24 replacement trees that will provide screening to the playground and additional groups of trees in the habitat areas.

6.3.3. The new Community Hub will require the removal of 1 tree on the existing site and 2 trees (including a Category A tree) and 1 group adjacent to facilitate the development; the new Hub will include 4 replacement trees.

6.3.4. The redevelopment of the existing park will include 46 new trees including multistemmed specimens and fruit trees in the community garden. The proposed trees are a mix of semi-mature, feathered, multi-stem and pleached including a variety of species to improve biodiversity. The use of mixed clear stem and multi-stemmed specimens will improve the canopy structure of the tree population providing a grading in tree heights; the choice of species will provide improved year-round interest both in flowering, autumn colour and form. 6.3.4. It is currently proposed to plant 4 trees in Purchese Street to help mitigate the loss of a Category A tree (T178) and a Category B tree (T262) within the existing school. Purchese Street has had 4 trial pits excavated by Street Tree Care Ltd to determine if it is feasible to plant within the street. The results of the excavations indicated that three of the sites were clear of utilities whilst a fourth was aborted due to the presence of gas and water at 500mm depth. However, Street Tree Care Ltd are confident that a fourth site close to the 3 successful pits would prove viable (between pits 1 and 2). Fig 1 below shows the location of the trial pits with pit 4 adjacent to the existing pedestrian crossing.

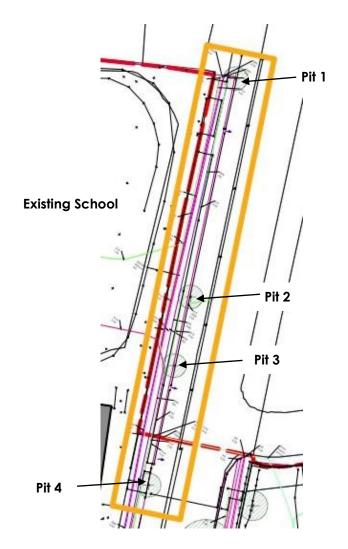


Fig 1. Location of trial pits (courtesy Street Tree Care Ltd)

6.3.5. Chalton Street has also been scanned for utilities to determine if it is feasible to plant trees within the carriageway on build-outs. The information provided by Street Tree Care Ltd indicates that water services run in the centre of the road with some spurs running across the carriageway on the south side toward Aldenham Street. It is therefore considered that there is scope for additional planting in Chalfont Street. However, it should be noted that the Highway Authority reserves the right to construct the adjoining Public Highway (carriageway, footway and/or verge) as considered appropriate. Proposals on the Public Highway are indicative only and it is highlighted that any planning permission does not guarantee that

highways works will be implemented as it is always subject to further detailed design, consultation and approval by the Highway Authority

6.3.6. The use of structural soils or a proprietary system such as Silva Cells for planting in hard surface areas will ensure suitable soil volume for the future development of the trees and help prevent long-term damage to wearing surfaces. Such systems can also be designed with integrated SUDS for a sustainable drainage solution.

6.3.7. The retained trees will require robust protection measures to ensure their long-term potential and it is recommended that an Arboricultural method Statement is prepared as part of Conditions following Planning Approval.

7. Development

7.1. Threats to trees during development

7.1.1. The following information is provided to highlight to the developers the ways in which trees may be damaged. These may be listed, in general terms as:

- Compaction of ground
- Covering rooting areas with impervious surfaces
- Excavations for foundations
- Excavation for service runs
- Alterations in ground level
- Access and movement of machinery
- Need for temporary site storage
- Crown damage by passage of high-sided vehicles

7.1.2. British Standard 5837 (1991) 'Trees in relation to construction' provided useful guidance for the assessment and formulation of measures for the mitigation of such threats. Using the experience gained from this Standard, it was revised and upgraded to 'Recommendation' status as British Standard 5837 'Trees In Relation To Construction' (2005). This British Standard was withdrawn on 30th April 2012 and replaced with Trees in Relation to Design, Demolition and Construction - Recommendations BS 5837: 2012. To assist in the prediction of the likely impact of development on retained trees, a model is used. This model is based on the age, vitality and size of individual specimens.

7.1.3. The British Standard relies heavily on the creation of a protected zone (RPA) around each tree. This area should be protected from disturbance "in order to avoid unacceptable damage to the tree as a result of severance or asphyxiation of the root system." The recommended minimum area (m²) for each tree to avoid potentially harmful disturbance have been calculated for all the trees surveyed and entered into the tree schedule (appendix A).

7.1.4. BS 5837: (2012) acknowledges that the shape of the tree root system may be affected by several factors and that the shape of the RPA should reflect this. Any deviation in the RPA from the original circular plot should take account of the following factors whilst still providing adequate protection for the root system:

- a) the morphology and disposition of the roots, when influenced by past or present existing site conditions (e.g. the presence of roads, structures and underground apparatus);
- **b)** topography and drainage;
- c) likely tolerance of the tree to root disturbance or damage based on factors such as species, age, condition and past management.

7.2. Root Damage

7.2.1. Trees that are growing satisfactorily have achieved equilibrium with their surroundings. Any construction work that affects this equilibrium could be detrimental to health, future growth and the safety of the tree.

7.2.2. The part of the tree most susceptible to damage is the root system, which, because it is not immediately visible, is frequently ignored. Damage or death of the root system will affect the health, growth, life expectancy and safety of the rest of the tree. The effects of such damage may only become evident several years later.

7.2.3. The majority of a tree's root system is generally considered to be in the top 600mm of the soil, extending radially in any direction for distances frequently in excess of the tree's height. However, roots are adventitious and if conditions suitable for root development exist to a greater depth, the roots may extend to depths of three metres or more. Works within the root spread may damage the root system.

7.2.4. Close to the trunk are the main structural roots that develop in response to the tree's need for structural stability. Beyond these major roots, the root system rapidly subdivides into smaller diameter roots; off this main system a mass of fine roots develop.

7.2.5. Tree root systems can be damaged in a number of ways during construction works. Root severance. Severing of a root will destroy all parts of the root beyond that point. Even roots less than 10mm diameter may be serving a mass of fine roots over a large area. The larger the root severed, the greater the impact on the tree.

- Damage to root bark. The bark protects the root and is essential for further root growth; it is loosely attached and easily damaged. If damage extends around the whole circumference, the root beyond that point will be killed.
- Compaction of the soil. Compaction of the ground reduces the space between soil particles, particularly in clay soils. A single passage of heavy equipment or the storage of materials can cause significant damage. Compaction can restrict or even prevent gaseous diffusion through the soil and thereby asphyxiate the roots. The roots must have oxygen for survival, growth and effective functioning.
- Alterations in ground levels. Lowering the level will strip out the mass of roots near to the surface. Raising the ground levels will have the same effect as compaction.
- Covering the rooting area with impervious surfaces. This prevents natural diffusion of gases between the soil and the atmosphere and can lead to oxygen depletion in the soil.
- Direct toxicity of some materials. For instance, petrol or diesel spillage or lime in cement can kill underlying roots.

- Wounding. Minor wounds to root bark can allow pathogens into the tree root system that can lead to a further impairment of water absorption. The general debilitation of trees due to root severance can make them more susceptible to invasion by some decay fungi such as Armillaria spp.
- Damage to the fine roots by severance of a main root, or by compaction, or by alteration of levels, will prevent the fine roots absorbing the water and nutrients essential for tree growth. The effects of damage from different causes will be cumulative.

7.2.6. The effects of tree root damage may not be immediately apparent. If the root system is capable of rapid regeneration, the tree may recover without noticeable ill effects, though usually symptoms take several years to develop. The range of symptoms varies from minor branch dieback, to deterioration and ultimate tree death depending on the severity of the damage and the ability of the roots to regenerate.

7.2.7. The default position should be that structures are **located outside the RPAs of trees that are to be retained**. The cumulative effects of incursions into the RPA e.g. from excavations for utility apparatus are damaging and should be avoided. Where there is evidence that a tree has been previously subjected to damage by construction activity this should be taken into account when considering the acceptability of further activity within the RPA.

8. General

8.1.1. Limitations of report: This report is intended to highlight the impact on the existing tree population of the final design layout. It is expected that a tree protection method statement will be required as part of Conditions of Planning Consent.

8.1.2. Arboricultural Standards: Any tree works should be done in accordance with the British Standard Recommendations for Tree work, BS 3998 as modified by later research. Works should be undertaken by properly qualified and experienced tree contracting company as recommended by a local authority or one approved by the Arboricultural Association. A Register of Contractors is available from The Arboricultural Association The Malthouse, Stroud Green, Standish, Stonehouse, Gloucestershire GL10 3DL, UKTel +44 (0) 1242 522152 Fax +44 (0) 1242 577766 Email: admin@trees.org.uk.

8.1.3. Statutory wildlife implications: Wildlife in this country is afforded protection under the Wildlife and Countryside Act 1981 as amended by the Countryside and Rights of Way Act 2000. Statutory protection is given to birds, bats and other species that inhabit trees. Tree work is governed by these statutes and advice should be sought from an ecologist before undertaking any works that may constitute an offence.

Graham M Causey B.Sc.(Hons), F. Arbor. A, R.F.S Cert Arb.

APPENDIX A TREE SCHEDULE

Tree No.	Species	Height (m)	DBH mm (No. of		Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
NO.		(11)	stems)	N	E	S	w		height (m)	sidge			contrib'n	
T101	Pear Calleryana	5	70(1)	1	1	1	1	2.5(S)	2.5	Y	Not found on plan Plotted by eye on plan In neighbouring property Long-term potential Full healthy crown		40+	C2
T102	Ash	18	470(1)	4	6	9.5	6	3(S)	7	EM	Drawn form Stem divides above 1.5m Decay pockets present in crown Light deadwood Unbalanced crown shape		20+	B2
T103	Ash	19	320(1)	4	6	5.5	4	7(S)	9	EM	Drawn form Decay pocket Stem divides above 1.5m Light deadwood Crown distorted due to group pressure Nott particularly visible		10+	C2
T104	London Plane	18	490(1)	8	6	4	6	4(E)	4	EM	Light deadwood Full healthy crown Long-term potential		40+	B2
T105	London Plane	17	530(1)	9	6	5	10	2.3(E)	2.5	EM	Decay pocket Stem divides above 1.5m Multiple stems above 1.5m Light deadwood Crown distorted due to group pressure Long-term potential		40+	B2
T106	London Plane	18	450(1)	4.5	5.5	9	10	2(W)	4	EM	Decay pocket Stem divides above 1.5m Multiple stems above 1.5m Light deadwood Crown distorted due to group pressure Long-term potential		40+	B2

Tree Species No.		Height (m)	DBH mm (No. of					FSB & Lower direction crown	Life stage	General observations Recommendation:	Recommendations	Est. Rem'ing	BS Cat	
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T107	Ash	18	390(1)	3	2	9	8	3(W)	6	EM	Drawn form Decay present on stem Decay pocket Major bark wounding on stem Stem divides above 1.5m Multiple stems above 1.5m Light deadwood Unbalanced crown shape Crown distorted due to group pressure		20+	B2
T108	London Plane	16	590(1)	8	10	10	8	2.5(W)	1.5	EM	Stem divides above 1.5m Multiple stems above 1.5m Light deadwood Long-term potential Prominent		40+	A2
T109	Ash 'Raywood'	14	340(1)	6	5.5	6	8	3(S)	1.5	EM	Surface roots sustained bark damage Stem divides above 1.5m Multiple stems above 1.5m Decay pockets present in crown Light deadwood Raywood Minor bark wounds Surface root action to 3m from trunk		20+	B2
TI 10	Norway Maple	13	280(1)	3	4.5	5	2	3(W)	3	EM	Decay present on stem Decay pocket Major bark wounding on stem Decay pockets present in crown Light deadwood Crown distorted due to group pressure Surface root action		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations Est. Rem'ing		BS Cat
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
TIII	Ash	12	250(1)	8	6	2	4	3(E)	4.5	EM	Poor shape & form Surface roots sustained bark damage Decay present on stem Decay pocket Major bark wounding on stem Stem divides above 1.5m Decay pockets present in crown Light deadwood Crown distorted due to group pressure		20+	B2
T112	Ash	14	310(1)	6	2	5	6	3(W)	2.5	EM	Surface roots sustained bark damage Stem divides above 1.5m Multiple stems above 1.5m Decay pockets present in crown Light deadwood Crown distorted due to group pressure Raywood and previous		20+	B2
T113	Swedish Whitebeam	7	210(1)	3	1	3	3	2.5(W)	3	EM	Decay present on stem Major bark wounding on stem Stem divides above 1.5m Multiple stems above 1.5m Decay pockets present in crown Light deadwood Crown distorted due to group pressure Large occluding trunk wound - heartwood exposed and decayed		20+	C2
T114	Swedish Whitebeam	9	280(1)	3	2	3.5	4	3(S)	2.5	EM	Decay present on stem Stem divides above 1.5m Light deadwood Unbalanced crown shape Constriction base of trunk Minor bark wounds		20+	C2
T115	Norway Maple	15	360(1)	4	7	8	3	3(E)	4	EM	Surface roots sustained bark damage Stem divides above 1.5m Light deadwood Crown distorted due to group pressure Occluded trunk wound		20+	B2

Tree	Tree Species No.		DBH mm (No. of	C	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(m)	stems)	N	E	S	w	direction	height (m)	Juge			contrib'n	
T116	Norway Maple	14	350(1)	5	1	6	8	2.5(W)	4	EM	Leaning West Surface roots sustained bark damage Stem divides above 1.5m Light deadwood Unbalanced crown shape Crown distorted due to group pressure Occluded trunk wound.		20+	B2
T117	Norway Maple	13	270(1)	5	6	3	4	4(E)	4	EM	Decay present on stem Major bark wounding on stem Light deadwood Unbalanced crown shape Trunk wound ground level - 2m occluding		20+	C2
T118	Ash	15	400(1)	6	6	4.5	6	4(S)	5	EM	Leaning North-West Surface roots sustained bark damage Major bark wounding on stem Light deadwood Unbalanced crown shape		20+	B2
T119	Locust Tree	16	430(1)	4	6	5	5	4.5(E)	2	м	Part of linear group Light deadwood Full healthy crown		20+	B2
T120	Locust Tree	17	400(1)	5	6.5	5	5.5	5.5(S)	5	м	Part of linear group Light deadwood Full healthy crown		20+	B2
T121	Locust Tree	14	400(1)	5	5	2	4	1.5(N)	2	М	Diameter estimated Part of linear group Epicormics on stem Light deadwood Unbalanced crown shape Crown distorted due to group pressure Full healthy crown		20+	B2
T122	Norway Maple	15	330(1)	4	5.5	5	7	2.5(SW)	3	EM	Light deadwood Unbalanced crown shape Minor bark wounds		20+	B2

Tree	Tree Species No.	Height (m)	DBH mm (No. of		Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.			stems)	N	E	S	w		height (m)	Juge			contrib'n	
T123	Norway Maple	16	340(1)	6	4	4.5	6	3.5(SW)	2.5	EM	Light deadwood Crown distorted due to group pressure Occluded trunk wound		20+	B2
T124	London Plane	18	340(1)	4	4.5	5.5	4	3(W)	1.5	EM	Drawn form Stem divides above 1.5m Light deadwood Crown distorted due to group pressure		10+	B2
T125	Locust Tree	19	390(1)	5	4	3.5	5	8(S)	7	EM	Drawn form Decay present on stem Major bark wounding on stem Large wound ground level - 2m		10+	C2
T126	London Plane	20	360(1)	3	5	6	2	5.5(E)	6	EM	Leaning East Decay pocket Full healthy crown		40+	B2
T127	London Plane	20	320(1)	4	4	5	5	4(NE)	5	EM	Drawn form Full healthy crown		40+	B2
T128	Silver Birch	8	120(1)	3	1	0.5	3	3.5(W)	1.2	SM	Poor shape & form Drawn form Decay present on stem Cavity on stem Unbalanced crown shape Crown distorted due to group pressure Suppressed		10+	C2
T129	London Plane	15	390(1)	9	8	5	3	4.5(S)	2	EM	Surface roots sustained bark damage Multiple stems above 1.5m Light deadwood Unbalanced crown shape Crown distorted due to group pressure Full healthy crown Surface root action to 3m north		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown rad	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(,	stems)	N	E	S	w		height (m)	Jidge			contrib'n	
T130	London Plane	16	330(1)	7	6	4	4.5	4(E)	2.5	EM	Drawn form Light deadwood Unbalanced crown shape Crown distorted due to group pressure Full healthy crown		20+	B2
T131	London Plane	17	800(1)	8	8	8	8	4.5(S)		м	Not found on plan Plotted by eye on plan Diameter estimated Canopy estimated In neighbouring property Decay pocket Recently heavily reduced		40+	B2
T132	London Plane	16	350(1)	5	7	4	4	3(E)		EM	Surface roots sustained bark damage Full healthy crown		40+	B2
T133	London Plane	17	470(1)	5	6	5	6	3.5(S)	4.5	EM	Full healthy crown Streetlight		40+	B2
T134	Locust Tree	20	420(1)	5	6	4	1	10(S)	11	Μ	Not found on plan Plotted by eye on plan Drawn form Leaning East Tree located within raised bed Decay pocket Decay pockets in pruning wounds		10+	B2
T135	London Plane	19	580(1)	7	5	5	8	4(S)	5	M	Not found on plan Plotted by eye on plan Tree located within raised bed Decay pocket Stem divides above 1.5m Full healthy crown Cut back from flats		10+	B2
T136	London Plane	19	490(1)	0	6	10	3	9(SE)	8	EM	Not found on plan Plotted by eye on plan Leaning South Tree located within raised bed Stem divides above 1.5m Unbalanced crown shape Crown distorted due to group pressure		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of		Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.			stems)	N	E	S	w	direction	height (m)	sidge			contrib'n	
T137	London Plane	20	370(1)	1.5	4	9	4	4(E)	5	EM	Not found on plan Plotted by eye on plan Leaning South Surface roots sustained bark damage Tree located within raised bed Unbalanced crown shape Crown distorted due to group pressure		20+	B2
T138	London Plane	18	500(1)	4.5	3	9	9	3(NW)	5.5	EM	Not found on plan Plotted by eye on plan Surface roots sustained bark damage Tree located within raised bed Stem divides above 1.5m Decay pockets present in crown Unbalanced crown shape Crown distorted due to group pressure		40+	B2
T139	London Plane	19	330(1)	2	3	4	7	3(W)	5.5	EM	Not found on plan Plotted by eye on plan Drawn form Surface roots sustained bark damage Tree located within raised bed Stem divides above 1.5m Decay pockets present in crown Light deadwood Unbalanced crown shape Crown distorted due to group pressure		40+	B2
T140	London Plane	19	450(1)	4	5.5	3	9	3(SW)	5	EM	Not found on plan Plotted by eye on plan Drawn form Surface roots sustained bark damage Tree located within raised bed Decay pockets present in crown Unbalanced crown shape Crown distorted due to group pressure		40+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown rad	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
NO.		(11)	stems)	N	E	S	w	direction	height (m)	sidge			contrib'n	
T141	Himalayan Birch	7	170(1)	2.5	2.5	2.5	2.5	2.5(SW)	2.5	SM	Not found on plan Plotted by eye on plan Part of linear group Tree located within hard surface area Full healthy crown Long-term potential		40+	C2
T142	Ash 'Raywood'	11	310(1)	4.5	3	4	5.5	2.5(E)	5	EM	Not found on plan Plotted by eye on plan Part of linear group Tree located within hard surface area Decay pocket Stem divides above 1.5m Decay pockets present in crown Storm damage with shed limbs Light deadwood Minor bark wounds		20+	B2
T143	Sweet Gum	4.5	70(1)	1	1	1	1	2.2(E)	2	Y	Part of linear group Tree located within hard surface area Young staked tree Long-term potential		40+	C2
T144	Sweet Gum	4.5	70(1)	1	1	1	1	2.2(E)	2	Y	Part of linear group Tree located within hard surface area Young staked tree Long-term potential Robinia suckers in pit		40+	C2
T145	Sweet Gum	4.5	70(1)	1	1	1	1	2.2(E)	2	Y	Part of linear group Tree located within hard surface area Young staked tree Long-term potential		40+	C2
T146	Sweet Gum	4.5	70(1)	1	1	1	1	2.2(E)	2	Y	Not found on plan Plotted by eye on plan Part of linear group Tree located within hard surface area Young staked tree Long-term potential		40+	C2
T147	Tulip Tree	4	70(1)	1.5	1.5	1.5	1.5	2(S)	1.5	Y	Tree located within hard surface area Low branches over road footpath Long-term potential		40+	C2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
			stems)	N	E	S	w		height (m)				contrib'n	
T148	Tulip Tree	5	70(1)	1.5	1.5	1.5	1.5	2(S)	1.5	Y	Tree located within hard surface area Long-term potential		40+	C2
T149	Tulip Tree	5	70(1)	1.5	1.5	1.5	1.5	2(S)	1.5	Y	Tree located within hard surface area Long-term potential		40+	C2
T150	Silver Birch	4	40(1)	1	1	1	1	2	1.5	Y	Tree located within hard surface area Long-term potential		40+	C2
T151	Silver Birch	10	90(1)	1.5	1.5	1.5	1.5	2	1.7	Y	Part of linear group Tree located within hard surface area Low bud leaf density Long-term potential		40+	C2
T152	Italian Alder	28	600(1)	6	5	4	6.5	5(W)	8	М	Drawn form Leaning North-West Tree located within hard surface area Decay present on stem Cavity on stem Stem divides above 1.5m Decay pockets in pruning wounds Cut back from flats		10+	B2
T153	Whitebeam	11	650(1)	8	8.5	2	6	3(NW)	4	м	Not found on plan Plotted by eye on plan Part of linear group Leaning North Tree located within hard surface area Stem divides above 1.5m Included bark present in main fork Decay pockets present in crown Unbalanced crown shape Cut back heavily from flats		10+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown rad	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w	direction	height (m)	Jidge			contrib'n	
T154	Whitebeam	12	600(1)	9	6.5	3	7	3(S)	4.5	Μ	Not found on plan Plotted by eye on plan Part of linear group Leaning North Tree located within hard surface area Stem divides above 1.5m Included bark present in main fork Decay pockets present in crown Light deadwood Unbalanced crown shape Cut back heavily from flats		10+	B2
T155	Whitebeam	10	600(1)	7	6	3	7			ОМ	Plotted by eye on plan Tree considered dangerous Dead Labelled for removal by Council		<10	U
T156	Hawthorn 'Prunifolia'	5	270(1)	4	4.5	2	3	2(SW)	2.5	Μ	Not found on plan Plotted by eye on plan Part of linear group Leaning North Tree located within hard surface area Decay pocket Epicormics on stem		20+	C2
T157	Norway Maple	16	430(1)	8	9	4	3.5	3(W)	5	М	Part of linear group Leaning North Tree located within hard surface area Cavity on stem Stem divides above 1.5m Decay pockets present in crown Unbalanced crown shape Cut back from flats		20+	B2
T158	London Plane	15	580(1)	6.5	5	3	6	5.5(E)	5	Μ	Part of linear group Leaning North Surface roots sustained bark damage Tree located within hard surface area Cut back from flats Anthracnose present Maintained by crown reduction		40+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
NO.			stems)	N	E	S	w	direction	height (m)	siuge			contrib'n	
T159	Norway Maple	17	580(1)	5	5	4.5	6.5	2.5(E)	2	м	Surface roots sustained bark damage Stem divides above 1.5m Light deadwood Full healthy crown		20+	A2
T160	Norway Maple	15	400(1)	4	5	4	4	3.5(NW)	2.5	EM	Tree located within hard surface area Stem divides above 1.5m Included bark present in main fork Light deadwood Minor bark wounds Surface root action		20+	B2
T161	Norway Maple	17	540(1)	7	8	8	7	3(W)	3.5	М	Light deadwood Full healthy crown prominent		20+	A2
T162	Norway Maple	12	410(1)	6	5	6.5	7	2.5(E)	3	EM	Stem divides above 1.5m Decay pockets present in crown Light deadwood Minor bark wounds		20+	B2
T163	Norway Maple	13	620(1)	9	10	8	10	2.5(W)	2.5	Μ	Decay present on stem Major bark wounding on stem Stem divides above 1.5m Decay pockets present in crown Light deadwood Generally full healthy crown Prominent		20+	A2
T164	Norway Maple	14	590(1)	9	8	7	9	2(SW)	3	М	Decay present on stem Decay pocket Stem divides above 1.5m Decay pockets present in crown Light deadwood Minor bark wounds Girdling root	Remove major deadwood.	20+	B2
T165	Norway Maple	14	550(1)	7	5	4.5	7	2.5(W)	4	М	Surface roots sustained bark damage Decay present on stem Major bark wounding on stem Epicormics on stem Multiple stems above 1.5m Decay pockets present in crown Storm damage with shed limbs Light deadwood	Remove major deadwood.	20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.			stems)	N	E	S	w	urcenon	height (m)	Juge			contrib'n	
T166	Field Maple	11	330(1)	4	2	4	4	2(SW)	2	EM	Surface roots sustained bark damage Decay pocket Stem divides above 1.5m Decay pockets present in crown Light deadwood Minor bark wounds		20+	B2
T167	Field Maple	12	450(1)	5	4.5	6	4.5	1.5(S)	4.5	м	Surface roots sustained bark damage Stem divides above 1.5m Decay pockets present in crown Light deadwood		20+	B2
T168	Field Maple	13	400(1)	5	4	4	3	2(N)	5	M	Surface roots sustained bark damage Decay pocket Major bark wounding on stem Stem divides above 1.5m Decay pockets present in crown Light deadwood Unbalanced crown shape		20+	B2
T169	Field Maple	11	340(1)	4.5	3	5	5	2(S)	5	м	Stem divides above 1.5m Decay pockets present in crown Unbalanced crown shape		20+	B2
T170	Field Maple	14	410(1)	5	4	3	5.5	3(W)	5	м	Stem divides above 1.5m Unbalanced crown shape.		20+	B2
T171	Locust Tree	16	720(1)	6	5.5	7	7	3(N)	2	M	Suckers around stem base Tree located within raised bed Stem divides above 1.5m Decay pockets in pruning wounds Light deadwood Crown reduced		20+	B2
T172	Locust Tree	14	320(1)	6	5	6	4	3(S)	2.5	EM	Surface roots sustained bark damage Tree located within hard surface area Light deadwood		20+	B2
T173	Locust Tree	7	80 140(2)	1	3	4	4.5	3.5(S)	2	SM	Poor shape & form Decay present on stem Stem divides below 1.5m Unbalanced crown shape Crown distorted due to group pressure		20+	C2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown rac	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(,	stems)	N	E	S	w	urcenon	height (m)	Juge			contrib'n	
T174	Locust Tree	12	1 <i>5</i> 0 200(2)	3	4	4.5	2	5(S)	5	SM	Poor shape & form Drawn form Suckers around stem base Decay pocket Stem divides below 1.5m Included bark present in main fork Crown distorted due to group pressure		20+	C2
T175	Locust Tree	17	400(1)	5	5	4.5	4.5	6(S)	6	EM	Drawn form Tree located within hard surface area Stem divides above 1.5m Light deadwood Crown distorted due to group pressure Prominent		20+	B2
T176	Sycamore	4.5	100(1)	2.5	3	3	1.5	3(N)	2	Y	Poor shape & form Stem divides above 1.5m Unbalanced crown shape		40+	C2
T177	Locust Tree	11	290(1)	5	5.5	5	4.5	3.5(W)	3	EM	Full healthy crown Screen value		40+	B2
T178	Ash	16	780(1)	10	12	11	10	2.5(W)	4	Μ	Stem divides above 1.5m Decay pockets present in crown Light deadwood Full healthy crown Screen value Prominent Soil compaction at base Exposed roots Girdling root		20+	A2
T179	Silver Maple	15	600(1)	5	5	9	7	4(SW)	2	Μ	Leaning South-East Surface roots sustained bark damage Epicormics on stem Decay pockets present in crown Crown reduced Prominent Screen value		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
NO.		(11)	stems)	N	E	S	w	direction	height (m)	sidge			contrib'n	
T180	Silver Maple	14	540(1)	6	6	5	5.5	3(N)	1.6	M	Epicormics on stem Decay pockets present in crown Crown reduced Prominent Screen value		20+	B2
T181	Apple	4	110(1)	3	1	2	2	1 (E)	1	EM	No particular landscape value		20+	C2
T182	Crack Willow	7	170(1)	4	2	1	2.5		1	SM	Not found on plan Plotted by eye on plan Unsuitable location		40+	U
T183	Ash Diversifolia	13	360(1)	5	6	7	5	4.5(E)	4	EM	Stem divides above 1.5m Light deadwood Prominent		40+	B2
T201	London Plane	12	500(1)	4	3	3	4	4(S)	5	EM	Diameter estimated Normal vigour Average condition Pollard Occluded wounds on trunk Crown distorted due to group pressure Screen value Some landscape amenity value.		40+	B2
T202	London Plane	18	470(1)	5	8	7	3	3(5)	8	EM	Diameter estimated Normal vigour Average condition Leaning East Bark wounds on surface roots Bark wounds present Crown distorted due to group pressure Branches restricting highway light Appropriate to location Screen value Some landscape amenity value.		40+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T203	London Plane	16	450(1)	4	6.5	8	5	3(SE)	2	EM	Diameter estimated Normal vigour Average condition Bark wounds present Stem divides above 1.5m Crown distorted due to group pressure Low branches over road/footpath Branches restricting highway light Light deadwood in crown Appropriate to location Screen value Some landscape amenity value.		40+	B2
T204	Locust Tree	20	580(1)	9	7	7	6	4	5	M	Average condition Basal decay present Suckers around stem base Tree located within raised bed Root spread restricted Fungal brackets visible on stem Stem divides above 1.5m Included bark present in main fork Crown distorted due to group pressure Branches encroaching upon building Light deadwood in crown Contributes to general amenity of area Appropriate to location Ganoderma bracket at 0.5m on southwest side.		<10	U

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(,	stems)	N	E	S	w	uncenon	height (m)	Juge			contrib'n	
T205	Norway Maple	9	250(1)	4.5	4	5	3	3.5(N)	3	EM	Normal vigour Average condition Bark wounds on surface roots Occluded wounds on trunk Stem divides above 1.5m Unbalanced crown shape Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area.		20+	C2
T206	Norway Maple	8	250(1)	3	4	5	5	3(S)	3	EM	Normal vigour Average condition Stem divides above 1.5m Unbalanced crown shape Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area.		20+	C2
T207	Norway Maple	9	310(1)	4	5	5	3.5	3(N)	3	EM	Normal vigour Average condition Exposed roots Bark wounds on surface roots Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area.		20+	B2
T208	Norway Maple	9	280(1)	4	2	4	5	2.5(NW)	4	EM	Normal vigour Average condition Bark wounds on surface roots Occluded wounds on trunk Stem divides above 1.5m Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area Possible trunk constriction at 0.2m.		20+	C2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)	Jugo			contrib'n	
T209	Bastard service tree	6	250(1)	3.5	3.5	2.5	2.5		2.5	EM	Normal vigour Average condition Part of linear group Bark wounds on surface roots Root spread restricted Occluded wounds on trunk Bark wounds present Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area Contributes to low level screening		20+	C2
T210	Bastard service tree	6	220(1)	3.5	3.5	3	3		2	EM	Normal vigour Average condition Part of linear group Bark wounds on surface roots Root spread restricted Occluded wounds on trunk Bark wounds present Crown distorted due to group pressure Low branches over road/footpath Light deadwood in crown Contributes to general amenity of area Contributes to low level screening		20+	C2
T211	Bastard service tree	5	270(1)	3.5	3.5	3.5	3.5		2	EM	Normal vigour Average condition Part of linear group Root spread restricted Occluded wounds on trunk Trunk decay present Bark wounds present Low branches over road/footpath Light deadwood in crown Contributes to general amenity of area Girdling roots.		20+	C2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.			stems)	N	E	S	w	direction	height (m)	Juge			contrib'n	
T212	London Plane	15	510(1)	5	7	8	7	2.5(S)	1.7	EM	Normal vigour Average condition Root spread restricted Low branches over road/footpath Light deadwood in crown Contributes to general amenity of area Appropriate to location Screen value.		40+	B2
T213	Norway Maple	12	360(1)	6	5	4	6	3(W)	3	EM	Normal vigour Average condition Bark wounds present Stem divides above 1.5m Crown distorted due to group pressure Branches restricting highway light Light deadwood in crown Contributes to general amenity of area Extensive bark removal between 0.4 & 2.3m height on north side Some wound-wood development around wound.		20+	C2
T214	Norway Maple	12	420(1)	5.5	7	6	6	3(NE)	1.7	EM	Normal vigour Average condition Occluded wounds on trunk Bark wounds present Stem divides above 1.5m Unbalanced crown shape Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area.		20+	B2
T215	London Plane	17	480(1)	8	7	8	7	2(W)	2	EM	Normal vigour Average condition Low branches over road/footpath Light deadwood in crown Some landscape amenity value.		40+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown rad	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(,	stems)	N	E	S	w	diceion	height (m)	Juge			contrib'n	
T216	Ash	17	480(1)	6	7	7	6		3.5	Μ	Normal vigour Average condition Leaning North Occluded wounds on trunk Stem divides above 1.5m Light deadwood in crown Contributes to general amenity of area Girdling root.		20+	B2
T217	London Plane	14	400(1)	7	7	7	7	2(NW)	4	EM	Normal vigour Average condition Roots lifting surfacing Stem divides above 1.5m Included bark present in main fork Branches restricting highway light Light deadwood in crown Contributes to general amenity of area.		40+	B2
T218	London Plane	15	350(1)	5.5	5	5	3		4	EM	Normal vigour Average condition Occluded wounds on trunk Bark wounds present Stem divides above 1.5m Included bark present in main fork Crown distorted due to group pressure Branches restricting highway light Light deadwood in crown Contributes to general amenity of area.		20+	B2
T219	London Plane	20	350(1)	3	5	8	8	2(SW)	1.6	EM	Normal vigour Average condition Leaning South-West Unbalanced crown shape Crown distorted due to group pressure Low branches over road/footpath Light deadwood in crown Some landscape amenity value.		40+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T220	Norway Maple	14	320(1)	4	6.5	8	8	2.5(E)	2	EM	Normal vigour Average condition Exposed roots Bark wounds on surface roots Occluded wounds on trunk Unbalanced crown shape Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area.		20+	B2
T221	London Plane	18	500(1)	6	8	4	7		3.5	EM	Normal vigour Average condition Roots lifting surfacing Bark wounds present Crown distorted due to group pressure Light deadwood in crown Screen value Some landscape amenity value Bowed trunk.		40+	B2
T222	London Plane	17	440(1)	8	6	7	7		2.5	EM	Normal vigour Average condition Soil levels raised around base Bark wounds present Crown distorted due to group pressure Low branches over road/footpath Light deadwood in crown Contributes to general amenity of area.		40+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(11)	stems)	N	E	S	w	direction	height (m)	Juge			contrib'n	
T223	London Plane	17	440(1)	8	9	4	6		2	EM	Normal vigour Average condition Soil levels raised around base Bark wounds present Crown distorted due to group pressure Light deadwood in crown Contributes to general amenity of area Potential weak fork with included bark.		40+	B2
T224	London Plane	20	620(1)	8	8	6	8	2.5(N)	3	EM	Normal vigour Average condition Roots lifting surfacing Bark wounds on surface roots Stem divides above 1.5m Crown distorted due to group pressure Light deadwood in crown Prominent tree Screen value Some landscape amenity value Railings embedded in exposed surface roots.		40+	B2
T225	Sweet Chestnut	7	290(1)	4	4	3.5	4	2.5(W)	1.5	EM	Normal vigour Average condition Basal decay present Suckers around stem base Occluded wounds on trunk Unbalanced crown shape Low branches over road/footpath Branches restricting highway light Contributes to general amenity of area Screen value Bowed trunk.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(,	stems)	N	E	S	w	direction	height (m)	sidge			contrib'n	
T226	London Plane	11	350(1)	3	6	4	6	2.5(W)	1.5	EM	Normal vigour Average condition Bark wounds present Crown distorted due to group pressure Low branches over road/footpath Screen value Some landscape amenity value Bowed trunk.		40+	B2
T227	Hornbeam	3	70(1)	0.5	0.5	0.5	0.5		1.6	Y	Young staked tree Low vitality No particular landscape value.		<10	U
T228	London Plane	18	470(1)	8	8	5	8		3	EM	Normal vigour Average condition Leaning East Bark wounds present Stem divides above 1.5m Crown distorted due to group pressure Branches encroaching upon building Screen value Some landscape amenity value.		40+	B2
T229	London Plane	18	380(1)	3	5	5	8		4	EM	Normal vigour Average condition Bark wounds present Stem divides above 1.5m Possible Massaria present Crown distorted due to group pressure Branches encroaching upon building Screen value Some landscape amenity value.		40+	B2
T230	Locust Tree	14	400(1)	2.5	2.5	2.5	2.5	7		EM	Average condition Basal decay present Stem divides above 1.5m Included bark present in main fork Crown becoming sparse Previously crown reduced Screen value.		10+	C2

Tree No.	Species	Height (m)	DBH mm (No. of		Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
NO.		(11)	stems)	N	E	S	w	direction	height (m)	sidge			contrib'n	
T231	Locust Tree	18	500(1)	3	3.5	3	5		6	EM	Normal vigour Average condition Suckers around stem base Epicormics on stem Previously crown reduced Contributes to general amenity of area Screen value.		10+	C2
T232	London Plane	10	530(1)	2	0	4	7		3	EM	Normal vigour Average condition Leaning South-West Unbalanced crown shape Crown distorted due to group pressure Decay pockets in pruning wounds Previously crown reduced Screen value.		40+	C2
T233	Cherry umineko	4	100(1)	1	1	1	1		2	SM	Normal vigour Average condition Young staked tree		20+	B2
T234	Cherry umineko	4	90(1)	1	1	1	1		2	SM	Normal vigour Average condition Young staked tree		20+	B2
T235	Himalayan birch	7	100(1)	1	1	1	1		1.8	SM	Normal vigour Average condition Stem divides above 1.5m Included bark present in main fork Some landscape amenity value Embedding cable ties around trunk.		20+	B2
T236	River birch	6	100(1)	1.5	1.5	1.5	1.5		1.8	SM	Normal vigour Average condition Some landscape amenity value Betula utilis^.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T237	Sycamore	14	450(1)	5	6	3	3	3(E)	3.5	м	Normal vigour Average condition Exposed roots Suckers around stem base Tree located within hard surface area Previously crown reduced Some landscape amenity value.		20+	B2
T238	Italian Alder	7	140(1)	2	2	2	2		1.5	SM	Normal vigour Average condition Tree located within hard surface area Low branches over road/footpath Well balanced full healthy crown Some landscape amenity value.		40+	B2
T239	Italian Alder	16	510(1)	3	3	3	3		6	Μ	Normal vigour Average condition Leaning North-West Roots lifting surfacing Suckers around stem base Tree located within hard surface area Well balanced full healthy crown Previously crown reduced Some landscape amenity value Bowed trunk.		20+	B2
T240	Italian Alder	15	490(1)	2.5	2.5	2.5	3		6	м	Normal vigour Average condition Leaning West Tree located within hard surface area Occluded wounds on trunk Well balanced full healthy crown Previously crown reduced Some landscape amenity value Bowed trunk.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
140.		(,	stems)	N	E	S	w	direction	height (m)	Juge			contrib'n	
T241	Italian Alder	9	220(1)	2	2	2	2		5	EM	Normal vigour Average condition Tree located within hard surface area Bark wounds present Epicormics on stem Well balanced full healthy crown Previously crown reduced Some landscape amenity value Bowed trunk.		20+	C2
T242	London Plane	3	40(1)	0.5	0.5	0.5	0.5			Y	Young staked tree Dead.		<10	U
T243	Norway Maple	15	600(1)	6.5	6.5	6.5	6.5	2	4	м	Normal vigour Average condition Exposed roots Tree located within hard surface area Occluded wounds on trunk Well balanced full healthy crown Light deadwood in crown Decay pockets in pruning wounds Appropriate to location Prominent tree Some landscape amenity value.		40+	B2
T244	Cappadocian Maple	15	560(1)	6	4	7	7	2	4	М	Normal vigour Average condition Part of linear group Leaning West Exposed roots Suckers around stem base Root spread restricted Bark wounds present Unbalanced crown shape Light deadwood in crown Decay pockets in pruning wounds Previously crown reduced Screen value Some landscape amenity value Girdling root.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T245	River birch	12	250(1)	2.5	2.5	2.5	2.5		5	M	Normal vigour Average condition Tree located within hard surface area Stem divides above 1.5m Branches encroaching upon building Appropriate to location.		10+	B2
T246	Willow-leaf Pear	4	270(2)	10	0	0	3		0	м	Normal vigour Average condition Ivy on stem Major bark wounding on stem Rubbing branches causing physical damage Light deadwood in crown Contributes to low level screening Tree uprooted in past & includes adjacent fallen stem.		<10	U
T247	Norway Maple	11	480(1)	6	5	5	6	1.8(W)	1.8	M	Normal vigour Average condition Tree located within hard surface area Stem divides above 1.5m Crown distorted due to group pressure Light deadwood in crown Decay pockets in pruning wounds Contributes to general amenity of area Appropriate to location.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.			stems)	N	E	S	w	direction	height (m)	Juge			contrib'n	
T248	Norway Maple	13	410(1)	7	4	7	6		1.6	м	Normal vigour Average condition Bark wounds on surface roots Bacterial flux on trunk Stem divides above 1.5m Crown distorted due to group pressure Light deadwood in crown Decay pockets in pruning wounds Contributes to general amenity of area Screen value Flux from occluded wound at 5m west side of crown		10+	C2
T249	Norway Maple	13	550(1)	8	8	6	5	1.5(SW)	1	M	Normal vigour Average condition Leaning North-West Exposed roots Canker on trunk Stem divides above 1.5m Broken branches in crown Crown distorted due to group pressure Light deadwood in crown Decay pockets in pruning wounds Contributes to general amenity of area Screen value.		10+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	c	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)				contrib'n	
T250	Norway Maple	13	470(1)	4	7	7	7	1.7	2	Μ	Normal vigour Average condition Basal decay present Trunk decay present Exudation on stem Stem divides above 1.5m Broken branches in crown Crown distorted due to group pressure Light deadwood in crown Decay pockets in pruning wounds Contributes to general amenity of area.		10+	C2
T251	Norway Maple	14	540(1)	6	4	8	4	2	5	Μ	Normal vigour Average condition Roots lifting surfacing Bark wounds present Exudation on stem Stem divides above 1.5m Broken branches in crown Crown distorted due to group pressure Light deadwood in crown Decay pockets in pruning wounds Contributes to general amenity of area.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
NU.		(11)	stems)	N	E	S	w	diecion	height (m)	sidge			contrib'n	
T252	Norway Maple	16	570(1)	3	7	8	7	3(S)	6	Μ	Normal vigour Average condition Aerodynamically one crown Leaning South Tree located within raised bed Occluded wounds on trunk Bark wounds present Exudation on stem Stem divides above 1.5m Crown becoming sparse Broken branches in crown Major deadwood in crown Crown distorted due to group pressure Decay pockets in pruning wounds Contributes to general amenity of area.		20+	B2
T253	Norway Maple	14	510(1)	7	7	3	7	3(SE)	4	Μ	Normal vigour Average condition Aerodynamically one crown Leaning East Bark wounds on surface roots Tree located within raised bed Occluded wounds on trunk Bark wounds present Exudation on stem Stem divides above 1.5m Crown becoming sparse Broken branches in crown Crown distorted due to group pressure Light deadwood in crown Decay pockets in pruning wounds Contributes to general amenity of area.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of		Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
110.		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T254	Field Maple	12	400(1)	2	4	5	3		5	м	Normal vigour Average condition Aerodynamically one crown Bark wounds on surface roots Suckers around stem base Occluded wounds on trunk Bark wounds present Unbalanced crown shape Crown distorted due to group pressure Contributes to general amenity of area.		40+	B2
T255	Norway Maple	9	250(2)	5	5	5	5		2	EM	Normal vigour Average condition Ivy on stem Stem divides below 1.5m Low branches over road/footpath Branches encroaching upon building Rubbing branches causing physical damage Light deadwood in crown Contributes to general amenity of area.		20+	C2
T256	Large-leaved Lime	5	130(2)	1	4	1	0		2	SM	Normal vigour Average condition Suppressed tree Tree located within hard surface area Epicormics on stem Stem divides at ground level Unbalanced crown shape Branches encroaching upon building Contributes to low level screening.		20+	C2

Tree Species No.		Height (m)	DBH mm (No. of	C	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T257	Cappadocian Maple	8	210(3)	5	5	3	5		2	EM	Normal vigour Average condition Roots lifting surfacing Tree located within hard surface area Multiple stems at ground level Included bark present in main fork Unbalanced crown shape Crown distorted due to group pressure Branches encroaching upon building Screen value.		20+	C2
T258	Cappadocian Maple	7	280(1)	4	4	4	4		2	EM	Normal vigour Average condition Root spread restricted Unbalanced crown shape Crown distorted due to group pressure Branches restricting highway light Branches encroaching upon building Screen value.		20+	C2
T259	Ash	20	500(1)	7	7	7	4		6	м	Plotted by eye on plan Diameter estimated Normal vigour Average condition Unbalanced crown shape Light deadwood in crown Decay pockets in pruning wounds Screen value Some landscape amenity value Base not seen.		20+	B2

Tree No.	Species	ecies Height DBH mm Crown radius (m) FSB & Lower Life General observations (m) (No. of direction crown stage		General observations	Recommendations	Est. Rem'ing	BS Cat							
110.		(,	stems)	N	E	S	w	direction	height (m)	Juge			contrib'n	
T260	Ash	14	470(1)	5	5	6	5	2(E)	4	Μ	Plotted by eye on plan Diameter estimated Normal vigour Average condition Root spread restricted Stem divides above 1.5m Included bark present in main fork Unbalanced crown shape Branches encroaching upon building Light deadwood in crown Decay pockets in pruning wounds Screen value Some landscape amenity value Base not seen.		20+	B2
T261	Sycamore	17	500(1)	5	5	6	5		7	M	Plotted by eye on plan Diameter estimated Normal vigour Average condition Root spread restricted Stem divides above 1.5m Included bark present in main fork Branches encroaching upon building Light deadwood in crown Decay pockets in pruning wounds Screen value Some landscape amenity value Base not seen.		20+	B2
T262	Ash	14	610(1)	8	8	8	8		4	M	Normal vigour Average condition Soil levels raised around base Occluded wounds on trunk Stem divides above 1.5m Branches restricting highway light Branches encroaching upon building Light deadwood in crown Decay pockets in pruning wounds Prominent tree Some landscape amenity value.		20+	B2

Tree	Tree Species Height No. (m)		DBH mm (No. of	C	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
140.		(11)	stems)	N	E	S	w		height (m)	sidge			contrib'n	
T263	Bastard service tree	4	170(1)	2	2	2	2		2	EM	Normal vigour Average condition Leaning North-West Suckers around stem base Included bark present in main fork Branches encroaching upon building Rubbing branches causing physical damage No particular landscape value		20+	C2
T264	Ash	15	580(1)	7	7	9	7	2(\$)	3	M	Normal vigour Average condition Soil levels raised around base Occluded wounds on trunk Bark wounds present Stem divides above 1.5m Crown becoming sparse Unbalanced crown shape Crown distorted due to group pressure Low branches over road/footpath Light deadwood in crown Screen value Some landscape amenity value.		20+	B2
T265	Ash	17	450(1)	5	5	7	7	3(S)	6	M	Normal vigour Average condition Leaning South Soil levels raised around base Occluded wounds on trunk Bark wounds present Stem divides above 1.5m Unbalanced crown shape Crown distorted due to group pressure Low branches over road/footpath Light deadwood in crown Screen value Some landscape amenity value.		20+	B2

Tree No.	Species	Height (m)	DBH mm (No. of	0	Crown rae	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
T266	Tibetan cherry	3	120(1)	2	2	3	1	1.8(N)	1.6	EM	Normal vigour Average condition Unbalanced crown shape Crown distorted due to group pressure Rubbing branches causing physical damage No particular landscape value Contributes to low level screening		20+	C2
GI	Silver Birch	8	80(MS)	2	2	2	2		2	Y	Not found on plan Plotted by eye on plan Diameter estimated Canopy estimated In neighbouring property Part of linear group In community garden close spacing will become mutually suppressed not particularly visible Long-term potential	•	40+	C2
G2	Willow Hazel	5	110(1)	2	2	1.5	2		1	Y	Poor shape & form Leaning North Decay present on stem Mutually suppressed group Minor bark wounds No particular landscape value 1 hazel		10+	C2
G3	Cappadocian Maple Tree of Heaven Elder	6	180(3)	3	3	3	3		1	EM	Normal vigour Average condition Roots lifting surfacing Tree located within hard surface area Crown distorted due to group pressure Rubbing branches causing physical damage Light deadwood in crown Contributes to low level screening Line of three trees self-set between fences Multi-stemmed at ground level.		10+	C2

Tree No.	Species	Height (m)	DBH mm (No. of	C	Crown ra	dius (m)		FSB & direction	Lower crown	Life stage	General observations	Recommendations	Est. Rem'ing	BS Cat
		(,	stems)	N	E	S	w		height (m)	Juge			contrib'n	
G4	Hawthorn White Willow	5	260(1)	2	2	2	2		0	EM	Normal vigour Average condition Pollard Bark wounds present Stem divides below 1.5m Crown distorted due to group pressure Rubbing branches causing physical damage Decay pockets in pruning wounds Contributes to low level screening.		40+	C2
G5	Field Maple Hazel Hawthorn	4	100(1)	1	1	1	1		0	EM	Normal vigour Average condition Part of linear group Aerodynamically one crown Included bark present in main fork Rubbing branches causing physical damage Contributes to low level screening Mixed native hedge.		40+	B2
S1											Stump			U
S2	Norway Maple	0.5	320(1)								Stump			U
S3	London Plane	1	350(1)								Stump			U
S4	Locust Tree	1	470(1)								Stump			U

<u>KEY</u>

Y = Young SM = Semi-mature EM = Early-mature M = Mature OM = Over-mature V = Veteran

H = Hedge G = Group B = Shrubs K = Small tree W = Woodland MS = Multi-stemmed

TREE QUALITY ASSESSMENT CASCADE CHART

Category and definition	Crit	eria (including subcategories where appropri	ate)
Trees unsuitable for retention Category U	Those 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	 Trees that have a serious, irremediable, strexpected due to collapse, including those other category U trees (e.g. where, for what cannot be mitigated by pruning) Trees that are dead or are showing signs of overall decline Trees infected with pathogens of significatives nearby, or very low quality trees suppression NOTE Category U trees can have existing might be desired 	that will become unviable after removal of tever reason, the loss of companion shelter of significant, immediate, and irreversible nce to the health and/or safety of other essing adjacent trees of better quality or potential conservation value which it
Trees to be considered for retention	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Category B Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects,		Trees with material conservation or other cultural value
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 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value

Tree No	Species	RPA (m²)	RPA as circle of radius (x)m	RPA as square of sides (x)m
T101	Pear Calleryana	2.2	0.84	1.5
T102	Ash	99.9	5.64	10
T103	Ash	46.3	3.84	6.8
T104	London Plane	108.6	5.88	10.4
T105	London Plane	127.1	6.36	11.3
T106	London Plane	91.6	5.4	9.6
T107	Ash	68.8	4.68	8.3
T108	London Plane	157.5	7.08	12.5
T109	Ash 'Raywood'	52.3	4.08	7.2
T110	Norway Maple	35.5	3.36	6
T111	Ash	28.3	3	5.3
T112	Ash	43.5	3.72	6.6
T113	Swedish Whitebeam	20	2.52	4.5
T114	Swedish Whitebeam	35.5	3.36	6
T115	Norway Maple	58.6	4.32	7.7
T116	Norway Maple	55.4	4.2	7.4
T117	Norway Maple	33	3.24	5.7
T118	Ash	72.4	4.8	8.5
T119	Locust Tree	83.6	5.16	9.1
T120	Locust Tree	72.4	4.8	8.5
T121	Locust Tree	72.4	4.8	8.5
T122	Norway Maple	49.3	3.96	7
T123	Norway Maple	52.3	4.08	7.2
T124	London Plane	52.3	4.08	7.2
T125	Locust Tree	68.8	4.68	8.3
T126	London Plane	58.6	4.32	7.7
T127	London Plane	46.3	3.84	6.8
T128	Silver Birch	6.5	1.44	2.5
T129	London Plane	68.8	4.68	8.3
T130	London Plane	49.3	3.96	7
T131	London Plane	289.5	9.6	17
T132	London Plane	55.4	4.2	7.4
T133	London Plane	99.9	5.64	10
T134	Locust Tree	79.8	5.04	8.9
T135	London Plane	152.2	6.96	12.3
T136	London Plane	108.6	5.88	10.4
T137	London Plane	61.9	4.44	7.9
T138	London Plane	113.1	6	10.6
T139	London Plane	49.3	3.96	7
T140	London Plane	91.6	5.4	9.6

APPENDIX B TREE ROOT PROTECTION AREA

Tree No	Species	RPA (m²)	RPA as circle of radius (x)m	RPA as square of sides (x)m
T141	Himalayan Birch	13.1	2.04	3.6
T142	Fraxinus angustifolia Raywood	43.5	3.72	6.6
T143	Sweet Gum	2.2	0.84	1.5
T144	Sweet Gum	2.2	0.84	1.5
T145	Sweet Gum	2.2	0.84	1.5
T146	Sweet Gum	2.2	0.84	1.5
T147	Tulip Tree	2.2	0.84	1.5
T148	Tulip Tree	2.2	0.84	1.5
T149	Tulip Tree	2.2	0.84	1.5
T150	Silver Birch	0.7	0.48	0.8
T151	Silver Birch	3.7	1.08	1.9
T152	Italian Alder	162.9	7.2	12.8
T153	Whitebeam	191.1	7.8	13.8
T154	Whitebeam	162.9	7.2	12.8
T155	Whitebeam	162.9	7.2	12.8
T156	Hawthorn 'Prunifolia'	33	3.24	5.7
T157	Norway Maple	83.6	5.16	9.1
T158	London Plane	152.2	6.96	12.3
T159	Norway Maple	152.2	6.96	12.3
T160	Norway Maple	72.4	4.8	8.5
T161	Norway Maple	131.9	6.48	11.5
T162	Norway Maple	76	4.92	8.7
T163	Norway Maple	173.9	7.44	13.2
T164	Norway Maple	157.5	7.08	12.5
T165	Norway Maple	136.8	6.6	11.7
T166	Field Maple	49.3	3.96	7
T167	Field Maple	91.6	5.4	9.6
T168	Field Maple	72.4	4.8	8.5
T169	Field Maple	52.3	4.08	7.2
T170	Field Maple	76	4.92	8.7
T171	Locust Tree	234.5	8.64	15.3
T172	Locust Tree	46.3	3.84	6.8
T173	Locust Tree	11.7	1.93	3.4
T174	Locust Tree	28.3	3	5.3
T175	Locust Tree	72.4	4.8	8.5
T176	Sycamore	4.5	1.2	2.1
T177	Locust Tree	38	3.48	6.2
T178	Ash	275.2	9.36	16.6
T179	Silver Maple	162.9	7.2	12.8
T180	Silver Maple	131.9	6.48	11.5
T181	Apple	5.5	1.32	2.3

Tree No	Species	RPA (m²)	RPA as circle of radius (x)m	RPA as square of sides (x)m
T182	Crack Willow	13.1	2.04	3.6
T183	Ash Diversifolia	58.6	4.32	7.7
T201	London Plane	113.1	6	10.6
T202	London Plane	99.9	5.64	10
T203	London Plane	91.6	5.4	9.6
T204	Locust Tree	152.2	6.96	12.3
T205	Norway Maple	28.3	3	5.3
T206	Norway Maple	28.3	3	5.3
T207	Norway Maple	43.5	3.72	6.6
T208	Norway Maple	35.5	3.36	6
T209	Bastard service tree	28.3	3	5.3
T210	Bastard service tree	21.9	2.64	4.7
T211	Bastard service tree	33	3.24	5.7
T212	London Plane	117.7	6.12	10.8
T213	Norway Maple	58.6	4.32	7.7
T214	Norway Maple	79.8	5.04	8.9
T215	London Plane	104.2	5.76	10.2
T216	Ash	104.2	5.76	10.2
T217	London Plane	72.4	4.8	8.5
T218	London Plane	55.4	4.2	7.4
T219	London Plane	55.4	4.2	7.4
T220	Norway Maple	46.3	3.84	6.8
T221	London Plane	113.1	6	10.6
T222	London Plane	87.6	5.28	9.4
T223	London Plane	87.6	5.28	9.4
T224	London Plane	173.9	7.44	13.2
T225	Sweet Chestnut	38	3.48	6.2
T226	London Plane	55.4	4.2	7.4
T227	Hornbeam	2.2	0.84	1.5
T228	London Plane	99.9	5.64	10
T229	London Plane	65.3	4.56	8.1
T230	Locust Tree	72.4	4.8	8.5
T231	Locust Tree	113.1	6	10.6
T232	London Plane	127.1	6.36	11.3
T233	Cherry umineko	4.5	1.2	2.1
T234	Cherry umineko	3.7	1.08	1.9
T235	Himalayan birch	4.5	1.2	2.1
T236	River birch	4.5	1.2	2.1
T237	Sycamore	91.6	5.4	9.6
T238	Italian Alder	8.9	1.68	3
T239	Italian Alder	117.7	6.12	10.8
T240	Italian Alder	108.6	5.88	10.4

Tree No	Species	RPA (m²)	RPA as circle of radius (x)m	RPA as square of sides (x)m
T241	Italian Alder	21.9	2.64	4.7
T242	London Plane	0.7	0.48	0.8
T243	Norway Maple	162.9	7.2	12.8
T244	Cappadocian Maple	141.9	6.72	11.9
T245	River birch	28.3	3	5.3
T246	Willow-leaf Pear	33	3.24	5.7
T247	Norway Maple	104.2	5.76	10.2
T248	Norway Maple	76	4.92	8.7
T249	Norway Maple	136.8	6.6	11.7
T250	Norway Maple	99.9	5.64	10
T251	Norway Maple	131.9	6.48	11.5
T252	Norway Maple	147	6.84	12.1
T253	Norway Maple	117.7	6.12	10.8
T254	Field Maple	72.4	4.8	8.5
T255	Norway Maple	28.3	3	5.3
T256	Large-leaved Lime	7.6	1.56	2.8
T257	Cappadocian Maple	20	2.52	4.5
T258	Cappadocian Maple	35.5	3.36	6
T259	Ash	113.1	6	10.6
T260	Ash	99.9	5.64	10
T261	Sycamore	113.1	6	10.6
T262	Ash	168.3	7.32	13
T263	Bastard service tree	13.1	2.04	3.6
T264	Ash	152.2	6.96	12.3
T265	Ash	91.6	5.4	9.6
T266	Tibetan cherry	6.5	1.44	2.5

Notes:

- 1. The above figures are an assessment of the minimum protection area required for the long-term survival of the trees present on site, and are calculated in accordance with BS 5837:2012).
- 2. The information provides guidance only as it assumes that all trees are to be retained with the exception of those graded R.
- 3. The calculated root protection area of a tree is capped at 707 m² as a maximum in accordance with BS 5837:2012.
- 4. Number in brackets after trunk diameter denotes number of stems below 1.5m above ground level. Ms = multi-stemmed tree.
- 5. Measurement for Dbh followed by 'e' denotes an estimated dimension due to access limitations.
- 6. Groups are not included in the above figures.