

Tree Survey Report FOR

Rathangan

CLIENT: Sophia Housing

July 2023

D 02

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1.0 Introduction

This tree survey was commissioned as part of the proposals for the construction of new

apartments and the property's car park area at a former convent located in Rathangan on

the border between County Kildare and Offaly. This survey identifies the trees, hedgerows,

and general vegetation, provides a general assessment, recommendations for their

management and protection.

The trees and hedgerows were surveyed on the 10/07/2023 by this practice and the

findings have been summarised and recorded in the following report. All significant trees

have been individually identified and numbers referenced in the survey table located at

the end of the report. This report should be read in conjunction with the drawing No.

086623_TS01 (Tree survey plan) and Drawing No. 085623_TP01 (Tree retention and

protection plan). Trees have been located from the topographical survey '4654 St Johns

Convent Rathangan_ITM15_100_2D' as well as from an aerial view from google maps and

measurements taken with a measuring tape on site.

2.0 Report limitations

The trees are subject to a basic visual inspection only. A visual inspection is from ground

level only and it shall be borne in mind it is subject only to obvious external defects visible

at the time of inspection. It does not include a climbing inspection, below ground,

tomographical readings or internal investigations.

3.0 Existing Environment

The site is located to the east of the small town of Rathangan town centre on New Street.

The land surrounding the site consists of retail and business to the west and south as you

go closer to the town centre, and residential and agricultural land to the north and east.

The area in which the site is located, has a mixture of residential housing estates, small

businesses, and retail premises.

The western boundary is shared with semi-detached housed, the southern boundary is

defined by the road, and the east and north boundaries are made up of a combination of

different types of walls, fencing and hedges.

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This vegetation appraisal gives an overview of the types of vegetation found on the site. The Arboricultural Survey prepared by Austen Associates gives more specific detail on the Trees and vegetation within or bordering the site boundary. Refer to drawings 085623_TS 01, 085623_TP 01. Refer also to the Landscape Plan 085623_LP_01 for planting and landscape proposals.

Vegetation within the site

The vegetation within the site consists of trees of varying sizes in grass lawn areas, along hedging in the site as well as the boundaries. The trees on site are made up of a variety of Beech and fruit trees.

The northern boundary is made up of a barbed wire fence interwoven with unkept vegetation of low quality, the western most part of the northern boundary is made up of a Cherry Laurel hedge which is in good condition, as well as a semi mature Lawson cypress, located outside of the red line boundary. In the corner of the interior wall on the north side of the site within an area of lawn there is a self-seeded *Fagus sylvatica* Beech tree in good condition.



Figure 1: Fagus sylvatica located near the north boundary.

Continuing south on the site there is a large area of grass lawns divided by a pathway diverging at different points. The trees here consist of *Fagus Sylvatica* Beech, *Malus* Apple, *Prunus domestica* Plum, *Pyrus* Pear, and *Juglans nigra* Walnut. This area of the site also has a line of box hedging along the path which runs along the edge of the lawn areas. The trees in this area can mostly be retained and incorporated into the new design of this area, however the trees which consist of apple trees on the western boundary of this lawn area will need to be removed due to the proposal of new car parking spaces where they are located. On the southern part of these lawn areas there is a hedge line containing *Cotoneaster lacteus* and privet which vary in height between 2-3 metres.

The southern boundary of the site contains a large open space next to the main existing building and its entrance. The open area is divided away from the tarmacadam of the entrance by a small retaining wall about 1 metre in height as the open space is at a higher elevation. The open area contains three trees: a *Prunus cerasifera 'Nigra'* Purple plum, and two *Fagus sylvatica* 'Atropurpurea Group' Copper Beech. The plum tree is in poor condition due to heavy lichen and moss on the bark and will need to be removed for the new design. The two beech trees, although having a few limbs which have been removed and a large amount of decay in them, they are still in very good condition and have grown to a height of between 20-22 metres. These two beech trees are to be retained.



Figure 2: Two beeches at the front of the site

4.0 Arborical Impact Assessment

Number of tree					
Individual	Category A	Category B	Category C	Category U	Total
trees					
20no.	3no. 15%	1no. 5%	16no. 80%	0no. 0%	
Retained	3no. 15%	0no. 0%	7no. 35%	0no. 0%	10no. 50%
trees					
Removed	0no. 0%	1no. 5%	9no. 45%	0no. 0%	10no. 50%
trees					

This section of the report describes the impacts that the proposed development will have on the trees. To be read in conjuncture with the tree survey and tree protection drawings 085623_TS 01 and 085623_TP01. Refer to section 5 Arboricultural Method Statement below for details on the protective actions required.

Individual Trees

All trees on site were surveyed as individual trees.

The trees which have all been surveyed individually (tree no.0744-0761) all reside in the lawns and open area within the planned development site. They mainly consist of Beech Fagus sylvatica and various fruit trees such as Malus apple, Prunus domestica Plum, Pyrus Pear, Prunus cerasifera 'Nigra' Purple plum, a Juglans nigra Walnut tree is also present. All the trees are considered category C except for the Beech trees which have been assigned either a category B or A.

Tree no. 0744 is a small self-seeded Beech Fagus sylvatica.

Impact of the development: A building is proposed at the location of this tree, and it is to be removed.

Tree no. 0745 is a large veteran Beech *Fagus sylvatica*. This is an important tree from a cultural and ecological perspective. It has two smaller *Ganoderma lucidum* fungal brackets on the trunk. It is recommended that sonic tomography be used to get a better picture of any internal decay. There is a stone wall existing to the north within the RPA. It is expected that the tree roots do not project beyond this wall, allowing for development to the north

of the wall. A path is proposed in this area and no root protection measures are required in this area.

Impact of development: The site layout has been designed so that there is minimal impact on this tree. Existing pedestrian paths are to be retained in their original alignment. Within the RPA, the surface of these paths may be dressed by hand. There is to be no excavation and no machinery is to encroach within the tree protective fencing alignment/RPA. Follow up surveys every 3 years are recommended.



Figure 3: Beech tree 0745

Tree no.'s 0746 – 0758 are orchard trees, species are Apple *Malus* spp. Pear *Pyrus* spp. Plum *Prunus domestica* and Walnut *Juglans nigra*. They create a nice atmosphere in the current use as an enclosed garden. The Walnut *Juglans nigra* has significant basal rot, though would be expected to survive in its current land use. It would be a risk within the proposed development with increased public and residential users passing within falling distance of the tree, making it a potential hazard.

Impact of the development: The site layout has been designed to retain as many of these trees as possible. Car parking and access road layout will see the removal of tree no.'s 0753 – 0758. Tree numbers 0746 – 0752 will be retained.

4 no. smaller, relatively recently planted Apple *Malus* spp. trees are proposed for relocation within the site. These trees are small and have not been surveyed individually.

Tree no. s A and B are essentially part of a hedge that lines part of the existing pathways. These are low value trees.

Impact of the development: Car parking and access road layout will see the removal of these trees.



Figure 4: Roots of tree no. 0746 growing in existing path

Tree no. 0759 is semi-mature Purple Plum *Prunus cerasifera* 'Nigra' located in the front garden area of the existing site.

Impact of the development: proposed paving and front garden location will see the removal of this tree.

Tree no.'s 0760 & 0761 are champion veteran Copper Beech trees, *Fagus sylvatica* 'Atropurpurea Group'. These trees play an important role in the biodiversity, green infrastructure and cultural heritage of the area. As they are located within the front garden of the existing site, and are visible from the public road and footpath, they contribute greatly to the public realm.

Impact of the development: The site layout has been designed to allow the retention of these trees. There is an existing garden wall 3-4 from the trunk of these trees. There is a c.400mm drop to a tarmacadamed driveway area. The theoretical RPA of these trees extends into the driveway area. However, in reality it is unlikely that the roots have grown beneath the wall and its foundations and on underneath the tarmacadamed driveway area. It is recommended that site investigation trenches be excavated to determine the presence of tree roots. This work <u>must</u> be supervised by the project arborist. Excavations are to start at the outer edge of the RPA and work gradually inwards until roots are encountered, or the wall is reached. Lighter machinery may travel across the existing tarmacadamed area within the RPA of the tree, provided that tree protective fencing is in place.



Figure 5: Copper Beech and level change in front garden

Hedging

Hedgerow 01 is a low garden box hedge *Buxus sempervirens*, lining the garden path on both sides. It is a well-established hedge that adds a nice quality to the garden and is a reference point to its religious use.

Impact of the development: Parts of this hedge will be retained, and some parts will be removed.

Hedgerow 02 is a mature well established Cotoneaster lacteus and Privet Ligustrum

ovalifoliium hedge, approximately 2-3 m in height.

Impact of the development: This hedge is close to the construction works area and will be

impacted on by scaffolding locations, machinery and construction activities. It is a low

value hedge and is to be removed as part of the development.

Hedgerow 03 is a mature well established Portuguese Laurel Prunus laurocerasus hedge,

approximately 1-1.5 m in height.

Impact of the development: This hedge is located away from the construction works and

it is expected that there will be no impact. It is to be retained and protected by tree

protective fencing.

Vegetation outside of the development that will be unaffected

Tree Line 01is a line of mature Poplar Populus tremula that is located across the road

from the development. This will not be affected by the works.

A Lawson Cypress Chamaecyparis lawsoniana is located outside the boundary wall of the

site and is outside of the redline boundary. It is expected that this will not be affected by

the works.

A mixed native hedge primarily made up of Hawthorn Crataegus monogyna is located

outside of the redline boundary and will not be affected by the works.

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5.0 Arborical Method Statement

<u>Introduction:</u>

This method statement contains information that will allow the building contractor set up

the site for protection of trees. It will also help the contractor prepare a method statement

detailing how they intend to protect retained trees.

The existing site contains a number of mature trees, they are generally of reasonable

quality. Many of these trees are called up for removal and some for retention. Please refer

to the drawing 085623_TP_01 and the Arboricultural Impact Assessment above for details.

The principal standard for tree retention practices is BS 5837:2012.

Tree rooting:

The majority of the tree's roots are in the top 1000mm of the soil, with the majority of

feeding and anchoring roots in the top strata. Typically, they spread laterally from the

trunk out beyond the crown. The area of the tree roots is referred to as the Root

Protection Area, RPA, and is indicated on the accompanying plans, 085623_TS_01 and

085623_TP_01. The RPA of the trees to be retained is not to be disturbed or impacted

upon by construction. CRITICAL: UNDER NO CIRCUMSTANCES ARE LEVELS TO BE

RAISED OR LOWERED IN THE ROOT PROTECTION AREA!

Removal of trees:

Trees are to be removed to the standard set out in BS 3998:2010. They are to be safely

felled with stumps and roots to be removed. The trees proposed for removal are adjacent

to trees proposed for retention. Care is to be taken so as to not damage the above ground

parts, (bark, trunk, branches, shoots and leaves etc. of the retained trees). The roots of

the retained trees are to be protected also. Note the rootzone that requires protection is

indicated on the drawing 085623_TS_01.

Retention of trees:

• The root protection area of the trees has been worked out in line with the guidance

given in BS 5837:2012. It is indicated on drawings 085623 TS 01 and 085623

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TP_01. This area is an estimate of the below ground root spread of the trees and protection of this area is of utmost importance.

- No alterations of ground levels are to occur within the RPA, this includes excavations or raising of ground levels.
- Any practices that would lead to compaction within the RPA such as storage of materials or location of site buildings are strictly prohibited.
- Any spillages, washings or any other possible contamination of the soil in the rootzone from construction operations is prohibited.
- Cellular confinement must be added to roots of trees which will be in danger of construction of the new road/car park. See detail on 085623_ TP_01 for more information
- The above ground parts of the trees will be protected from damage from site traffic and machinery and from felling operations of adjacent trees.

Construction method statement

The building contractor must prepare a construction method statement in relation to retaining trees on site.

- This method statement will detail how construction work and activities including but not limited to; waste management, site traffic management, location of services (both underground and overhead), will be planned so that there is little or no impact on the root protection areas and over-ground plant parts of the trees or protected vegetation.
- This will include outline drawings showing location site traffic routes, storage areas, welfare facilities, waste management areas etc. in relation to the locations of retained trees.
- It will outline the locations of and materials to be used in tree protective fencing. See below for tree protective fencing requirements.
- It will outline the induction process for all staff and sub-contractors in relation to tree protection.
- It will use this document as a minimum standard for tree protection. All tree protection measures mentioned herein shall be the construction method statement.
- It will show temporary ground protection measures for any machinery/vehicles that
 must enter the RPA of trees to carry out vital work. The temporary ground
 protection measures for machinery under 2 Tonnes will comprise of a 150mm layer
 of coarse wood chippings placed over a geo-textile to spread the load. A weight
 bearing surface such as chip board will be placed on the wood chippings. For

machinery above 2 Tonnes a proprietary ground protection system will be used. This will be agreed with the project engineer and will accommodate the necessary loading. Any ingress into the RPA <u>Must</u> be agreed with the project arborist in writing

prior to touching a tree protective fence.

Tree work

• Any tree work undertaken on site will be in line with BS 3998. An assessment shall

be taken for the presence of any protected wildlife prior to removal and any

ecological survey recommendations will be observed.

• Scrub, including Briar will be removed from around the trees. The above ground

parts of the trees are not to be damaged. There will be no excavation within the

RPA. Specific roots of Briar etc. may be removed by hand digging.

• Some minor branch removal operations will have to be carried out to individual

trees. This must be carried out by a trained professional with adequate experience.

Tree protection areas

The alignment of the tree protective fencing will be as shown on Drawing No.

085623_TP_01 and is specifically designed to protect the tree roots. Construction traffic

will be diverted between tree protection areas for the duration of construction and no

heavy-duty traffic shall pass over the RPA of retained trees prior to erection of tree

protective fencing. The fencing shall remain in place for the duration of the construction

works and shall only be removed when all works are complete. The tree protective fencing

alignments will not be altered, even on a temporary basis, without the written consent of

the project arborist.

Tree Protection

• No materials, site storage areas, cement washing points, construction waste

disposal areas shall be located in or around the Root Protection Areas.

• No noxious liquids shall be disposed of or deposited within the RPA.

Rubbish shall not be burned in the RPA

• The soil level shall not be altered in any way, (raised or lowered) within the RPA.

• No action that might cause compaction within the RPA are to be carried out, this

includes but is not limited to: placement of site facilities, storage of machinery,

storage of materials, topsoil storage, staff parking.

No signage, staples, boards or any other item/material shall be attached to any

retained tree.

• Site machinery with extending arms, buckets etc. shall not damage the above

ground parts of the trees.

Tree Protective fencing

protective fencing shall be as outlined on Drawing No. 085623_TP_01 and shall remain in

place during the construction works. Any works within the tree protective fencing shall be

supervised on site by the project Arboriculturist. Signage shall be attached to the fencing

reading 'Tree Protective fencing KEEP OUT'

Reports on the successful completion of the works shall be issued by the project

Arboriculturist on completion. Once the tree protective fencing is in place and has been

approved by the project Arboriculturist, the contractor may commence site set up.

No materials, site storage areas, cement washing points, construction waste disposal areas

shall be located in or around the Tree Protection Areas. No noxious liquids shall be disposed

of or deposited within the TPA.

This fencing must be checked daily by the site foreman to ensure it is on the alignment

shown in the drawings and is rigid with no breaches.

It must be in place for the entirety of the works programme, it is the last item to be

removed off site on completion of works.

All tree felling, surgery and remedial works shall be completed prior to the completion of

construction works on site.

All works on retained trees shall comply with proper arboricultural techniques conforming

to <u>BS 3998: 2010 Tree Work - Recommendations</u>.

The clearance of any vegetation including trees and scrub should be carried out outside

the bird-breeding season (1 March - 31 August inclusive) or as stipulated under the

Wildlife Acts 1976 and 2000.

The Arborist shall carry out a post construction tree survey and assessment on the

condition of the retained trees. A Completion Certificate shall be signed off by the Arborist

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when all permitted development works are completed and in line with the recommendations of the tree reports and plans. The certificate shall be submitted to the Parks Section for written agreement upon completion of construction works on site. This needs to be priced for, if not already.

A Final Completion Certificate is to be signed off by the Arborist when all tree/hedgerow works are fully completed to the satisfaction of the Parks Section and in accordance with the permitted landscape proposals and all of the recommendations in the tree reports and plans. The certificate shall be submitted to the Parks Section for written agreement prior to taking in charge.

6.0 Conclusions

There are 3 no. outstanding trees on the site. The site has been designed to retain these

trees. All retained trees must be protected during construction. It is recommended that a

sonic tomography test be carried out on one of the large Beech trees, tree no. 0746. There

are small fungal brackets on the trunk. The test will give a more accurate picture of any

internal decay that may be present. The tree is to be surveyed every 3 years.

A number of the trees located in the site are to be removed for the purposes of

development for the new buildings, access road and car park. These trees are considered

low value, poor trees and their removal will be mitigated by planting of replacement trees

or shrubs.

Trees to be retained will be protected by tree protective fencing will be erected to prohibit

access to the rooting area of the trees. This tree protective fencing to BS 5837:2012 will

be in place all through construction along with adherence by all on site with the instructions

regarding the protection of the RPA. These steps are critical to the successful retention of

trees.

It is recommended that a project arborist be appointed to oversee construction and tree

protection.

Signed:

22/02/2024

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List of Abbreviations Used in Schedule of Tree Data Below:

m = Metre

cm = Centimetre

CBH= Circumference at Breast Height

DBH= Diameter at Breast Height, taken at 1.5m according to BS 5837:2012

NA = Not Applicable

TS = Twin Stems

MS = Multi Stems

Ptag = Previously tagged by others

Age Class:

Y = Young: A tree which has been planted in the last 10 years or is less than 1/3 expected height of the species in question

Sm = Semi-mature: A tree which is between 1/3 and 2/3's the expected height of the species in question

M = Mature: A tree that has reached the expected height of the species in question, but is still increasing in size

Om =Over Mature: A tree at the end of its life cycle and the crown is starting to break up and decrease in size

V= Veteran: A tree showing signs of biological, cultural or aesthetic value that are characteristic of, but not exclusive to, individuals surviving beyond the typical age range for the species concerned.

Health Status:

L = low vigour

Md = Moderate vigour

N = Normal vigour

Condition Class:

U=Those 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 = Trees of high quality with an estimated remaining life expectancy of at least 40 years

B = Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

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

The above categories (A, B and C) will be further subdivided with regard to the nature of

their values or qualities. A tree may be awarded one or more value categories as below,

but such attributes do note infer any additional value and it may be possible for a tree

may qualify for one or more of the categories as below.

Sub-categories:

1-mainly Arboricultural Values:

A = Typically, a good example of its species, especially if rare, or are an essential

component of arboricultural features which is considered to make a substantial

Arboricultural contribution

B = Trees that might be included in category A but are downgraded due to impaired

condition.

C= Unremarkable trees of very limited merit or such impaired condition that they do not

qualify in higher categories

2- mainly Landscape Values:

A = Trees, groups or woodlands of particular visual importance as arboricultural and/or

landscape features.

B = Trees present in numbers, usually growing as groups or woodlands, such that they

attract a higher collective rating than they might as individuals; or trees occurring as

collectives but situated so as to make little visual contribution to the wider locality

C = 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

3-Cultural Values:

A = Trees, groups or woodlands of significant conservation, historical, commemorative

or other value (e.g., veteran trees or wood pasture)

B = Trees with material conservation or other cultural value

C = Trees with no material conservation or other cultural value

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No.	Species	Ht	N	S	E	W	Dia	Vigour	Age	Cond	ERC	Comments	Priority
							(DBH)		Class	Class			Action
0744	Beech <i>Fagus</i>	8-10m	2.0m	2.2m	2.2m	2.3m	180mm	N	Y	B1	40+	Self-seeded tree in good health,	Remove
	sylvatica											branching from base, located in	
												corner close to walls	
0745	Beech <i>Fagus</i>	20-	10m	9.5m	11m	11m	1048m	N	V	А3	40+	Ganoderma fungal brackets on south	Retain, carry
	sylvatica	22m										and east side of the trunk at 3m, the	out sonic
												brackets are c.10cm in size, roots	tomography
												above ground in adjacent path, minor	and review
												decay in smaller branches in crown,	retention,
												large branch removed and decay at	survey every
												branch attachment at 2.m above GL	3 years
0746	Apple <i>Malus</i> spp.	8-10m	3.5m	5.0m	4.0m	4.0m	330mm	Md	Om	C3	10+	Branch removed, major decay at	Retain,
												branch attachment, hollowing into	light
												trunk northeast side, lean to east,	pruning
												lower branches removed south side	
0747	Plum <i>Prunus</i>	8-10m	2.0m	5.0m	5.0m	4.0m	M/S 140,	Md	Om	C3	10+	Heavy lichen and moss on bark	Retain,
	domestica						130						light
							80mm						pruning
0748	Pear <i>Pyrus</i> spp.	2-4m	2.0m	2.0m	2.0m	2.0m	95mm	N	Sm	C1	20+	Suckers at base, decay at base,	Retain, light
												heavy lichen and moss on bark	pruning
0749	Apple <i>Malus</i> spp.	2-4m	2.3m	2.5m	2.2m	2.0m	122mm	N	Sm	C3	20+	Poor pruning leading to decay pegs,	Retain, light
												heavy lichen and moss on bark	pruning

No.	Species	Ht	N	S	Е	W	Dia	Vigour	Age	Cond	ERC	Comments	Priority
							(DBH)		Class	Class			Action
0750	Pear <i>Pyrus</i> spp.	4-6m	3.5m	4.5m	3.5m	4.0m	M/S 220,	L	Om	C3	10+	Suckers at base, decay at base,	Retain,
							130, 120					heavy lichen and moss on bark	light pruning
							& 110mm						
0751	Apple <i>Malus</i> spp.	4-6m	4.0m	3.2m	4.0m	3.5m	M/S	L	Om	C3	10+	Poor pruning leading to decay pegs,	Retain,
							200 &					heavy lichen and moss on bark	light pruning
							110mm						
0752	Apple <i>Malus</i> spp.	2-4m	2.0m	3.0m	2.2m	2.0m	80mm	L	Om	C3	10+	Heavy lichen and moss on bark	Retain,
													light pruning
0753	Apple <i>Malus</i> spp.	2-4m	4.0m	4.5m	3.5m	4.0m	M/S 230,	Md	Om	C3	10+	Heavy lichen and moss on bark	Remove
							225 &						
							140mm						
0754	Apple <i>Malus</i> spp.	2-4m	2.0m	2.2m	3.0m	2.0m	M/S	Md	Om	C3	10+	Heavy lichen and moss on bark	Remove
							150 &						
							80mm						
Α	Holly <i>Ilex</i>	4-6m	2.5m	3.0m	2.0m	2.5m	#	Md	Sm	C1	20+	Trimmed hedge-like with Bay Laurel	Remove
	aquifolium 'Silver						150mm					at base	
	Queen'												
В	Leyland Cypress	4-6m	2.0m	2.0m	3.0m	2.0m	#	N	Sm	C1	20+	Trimmed hedge-like at base	Remove
	X Cuprocyparis						150mm						
	leylandii												
0755	Apple <i>Malus</i> spp.	4-6m	2.2m	3.0m	3.2m	2.0m	M/S	Md	Om	C3	10+	Decay at main union	Remove
							150 &						
							130mm						

No.	Species	Ht	N	S	E	W	Dia	Vigour	Age	Cond	ERC	Comments	Priority
							(DBH)		Class	Class			Action
0756	Pear <i>Pyrus</i> spp.	8-10m	3.0m	3.0m	4.0m	2.5m	233mm	L	М	C3	10+	Kink in trunk at 1.6m	Remove
0757	Walnut <i>Juglans</i> nigra	10- 12m	5.0m	5.0m	5.2m	5.5m	M/S 350, 230, 195, 180 & 160mm	N	Sm	C3	10+	The largest stem is a fusion of 2 stems now growing together, major decay at base, small Hen of the woods <i>Grifola frondose</i> fungal bracket at base	Remove
0758	Apple <i>Malus</i> spp.	2-4m	3.0m	4.0m	3.5m	4.0m	M/S 170 & 160mm	N	М	C3	10+	Crossing large branches, M/S at 500mm above GL, decay in smaller branches, heavily suppressed by Copper Beech to the south	Remove
0759	Purple Plum Prunus cerasifera 'Nigra'	6-8m	4.0m	2.0m	3.0m	3.0m	M/S 190, 90 & 75mm	N	Sm	C3	20+	Heavy lichen and moss on bark	Remove
0760	Copper Beech Fagus sylvatica 'Atropurpurea Group'	20- 22m	9.0m	7.0m	9.0m	10m	910m	N	V	A3	40+	Swelling in trunk north side 2m above GL-possible indication of internal decay, co-dominant stems at 4m, large bark inclusion (structural defect), small dead branch, 100mm dia at 10m on east side	Retain, carry out root investigati on works

No.	Species	Ht	N	S	E	W	Dia	Vigour	Age	Cond	ERC	Comments	Priority
							(DBH)		Class	Class			Action
0761	Copper Beech	20-	6.0m	7.0m	7.5m	11m	990m	N	V	А3	40+	Two large limbs removed from the	Retain,
	Fagus sylvatica	22m										east side-wounds 650x500mm (some	carry out
	'Atropurpurea											occlusion) and 420 x 400mm (no	root
	Group'											occlusion) brown rot and fungal	investigati
												brackets on wounds, small swelling at	on works
												base of wounds, minor bark decay at	
												root buttress beneath wounds,	
												smaller branch removal on north	
												side, occluded 2/3 of the way around,	
												more smaller branches removed	
												north side further up, good occlusion	

Hedgerow 01; Low box hedging is located within the garden area, it is approximately 400mm in height, well clipped at the time of survey, and suffers from box blight in places. This hedge will be retained in places and will be augmented with new box hedging to create a beautiful, designed effect. Some of the hedging will be removed.

Hedgerow 02: A dense mature *Cotoneaster lacteus* and Privet *Ligustrum ovalifolium* hedge, 2 – 3m in height, is located within the garden area. This hedge is to be removed.

Hedgerow 03: A dense Portuguese Laurel *Prunus lusitanica* hedge, 1 -1.5m in height is located on the eastern boundary, this is to be retained.

Tree line 01 is a line of mature Populus tremula trees located well away from the site, across New street. They are mature category B trees 14-16m in height and have been surveyed as line. The trees have a typical DBH of 400-500mm. They have an estimated remaining contribution of 20+.