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ARBORICULTURAL REPORT AND TREE MANAGEMENT STRATEGY AT:

Dunraven Secondary School
94/98 Leigham Court Road
London
SW16 2QB

Prepared by: W.J.Kent Dip Arb(RFS); MArborA
LANTRA: Professional Tree Inspector
QTRA: Licensed user

Date: 19th March 2019 **Ref: DSS 03.19**

CONTENTS:

1.0 Introduction

1.1 I have been instructed by Mr Gary Gray (Facilities manager) of Dunraven school, to carry out an inspection of the principle trees at the above address and to prepare an arboricultural report and tree management strategy with regard to my inspection outcomes.

2.0 Report objectives

2.1 To initiate a programme of regular, documented tree inspections for health and safety purposes complying with the 'Duty of care' requirements for responsible land owners under the statutory Occupiers Liability Act 1957.

2.2 To maintain and where possible enhance the treescape of the grounds in accordance with good arboricultural practice to the benefit of all stakeholders and the wider environment.

3.0 Limitations

3.1 All tree inspections were carried out at ground level using industry recognised 'visual tree assessment' techniques from ground level. Equipment used included binoculars, acoustic mallet, metal probe and tree measuring equipment.

3.2 No climbing inspections or sophisticated decay detection equipment were used. No excavation to reveal root condition was carried out. No soil or tree tissue samples were taken. As a result only defects visible from such inspection methods would be detected. Where a more detailed inspection is thought necessary then such recommendations will be made.

3.3 The author does not hold formal qualifications in either legal or structural engineering matters. Whilst it is normal to make comment on these subjects from an arboricultural perspective, **the appropriate professional advice should be sought to clarify or confirm any comments made in respect of legal or structural engineering matters.**

3.4 Trees are living organisms that constantly change biologically and structurally throughout their lives. As a result there can be no one off inspection to assess the long term condition of trees. A programme of regular re-inspection intervals are detailed in the tree survey schedule and should be adhered to in order to retain the validity of the inspection programme. **The re-inspection schedule applies to normal weather conditions prevailing during the period between re-inspections. Interim tree inspections should be carried out as soon as is practicable following any extreme weather event.**

3.5 Only trees of a stem diameter greater than 150mm at 1.5m height are included in the report unless their inclusion is thought necessary. Shrub masses and hedges will also be excluded unless considered necessary.

4.0 Inspection procedure

- Inspection and assessment has been carried out of the principle trees as shown within the Tree Locations Plan within Appendix 2 of this report.

- Accurate location of each subject tree on site is determined by cross referencing the tree numbers shown in the tree locations plan to the tree survey schedule in appendix 1.

- Carry out a visual tree assessment (VTA) of each individual tree in order to analyse the physiological and structural condition of each tree.

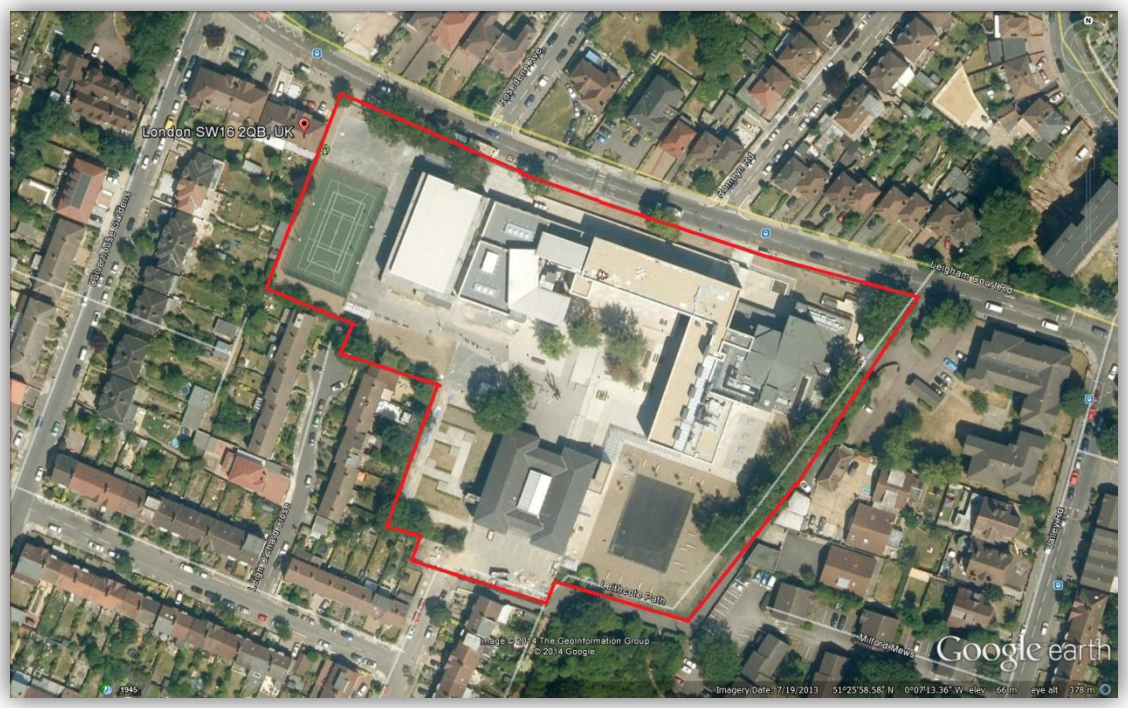
- Record all relevant data pertaining to the trees inspected.

- To make recommendations where appropriate for the safe and prudent retention of the subject trees in accordance with good arboricultural practice including time scales for remedial works and re-inspection dates.

- To present the inspection results in a report format consisting of hard and electronic PDF copies

5.0 Site & tree stock description

5.1 The site comprises a secondary school and associated grounds which extend to nearly two hectares in size. The school is situated to the south of Leigham Court Road, near Streatham, South London. **See aerial photograph of the site below.**



Aerial photograph of the site: *Google Earth Imagery*

5.2 The topography of the site is reasonably level in general, with no significant inclines in any direction, however the ground slopes gently downwards in an Easterly direction.
The site soil type is described by British Geological survey data as: London Clay Formation - Clay & Silt bedrock geology. No superficial deposits are recorded

5.3 The tree population comprises a mix of a wide variety of amenity trees, of many types, species and age composition.

6.0 Key to tree survey data

Tree number:

Links the specimen to tree locations plan and survey schedule.

Species:

Common name and *botanical name*

Height:

Estimated total height in metres from ground level.

DBH:

Tree stem diameter in mm measured at 1.5m height

Crown spread radius;

Radius crown spread distance measured in metres at the greatest point

Age class:

Y (young) – newly planted tree or young sapling/tree usually under 15 years old.

EM (early mature) – tree within first 1/3rd normal life expectancy.

M (mature) – tree in final 2/3^{rds} normal life expectancy.

LM (late mature) – tree reaching the end of or exceeding normal life expectancy.

Condition:

P (physiological) – assessment of the trees biological functional system:

GOOD – fully functioning biological system, showing average or above average vitality for the species and its age, usually with a life expectancy of greater that 40 years.

FAIR – fully functioning biological system showing below average vitality for the species and its age, usually with a life expectancy of greater than 20 years.

POOR – a biological system of significantly reduced vitality for the species and age, usually with a life expectancy of less than 10 years.

DEAD – a dead tree.

S (structural) – assessment of the trees structural integrity:

GOOD – tree free from significant visual defects.

FAIR – tree with significant visual defects, remedial by intervention.

POOR – tree with significant defects requiring either substantial works of removal.

Observations and recommendations:

Observations of all kinds relating to the subject tree.

Recommended tree work prescription.

Works time schedule:

The maximum period of time from the survey date to when the works should be carried out.

Re-inspection frequency:

The maximum period of time from the survey date to when the re-inspections should be carried out.

7.0 Legal protection status of trees

7.1 Protected species

Mature trees can be used by birds and bats. All species of bat and nesting birds are protected in the UK by *The Wildlife and Countryside Act 1981* (as amended), extended by the *Countryside and Rights of Way Act 2000* and *The conservation of habitats and species regulations 2012(European directive)*. If the presence of a legally protected species is suspected whilst undertaking any tree work, the task should be halted immediately and appropriate advice sought from a suitably qualified ecologist.

7.2 Statutory designations

Trees can be afforded statutory protection in a number of ways, including:

- Tree Preservation Orders;
- planning conditions;
- Felling Licences; and
- being in a designated Conservation Area.

Protected trees can only be removed or pruned if permission is granted either as part of a planning permission, or if a separate application is made to the Local Authority (or the Forestry Commission).

8.0 Tree work operations

8.1 All recommended tree works as detailed in appendices 1&3 should be subject to additional TPO checks prior to commencement of works.

8.2 All recommended tree works as detailed in appendices 1&3 should be carried out by appropriately insured, experienced and qualified arboricultural contractors and in accordance with BS3998: 2010.

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
1	Common Ash *Fraxinus excelsior*	10	EM	P: Poor - Significantly thin crown indicates below normal vitality S: Good	Limited space for further tree development. Fell - Fell and treat stump	3 Months	NA
2	Common Lime *Tilia europaea*	15	M	P: Good S: Good	Raise low canopy - To 4.0m	3 Months	24 months
3	Common Lime *Tilia europaea*	13	M	P: Good S: Fair	Twin-stemmed tree from 2.5m height Raise low canopy - To 4.0m	3 Months	24 months
4	Common Lime *Tilia europaea*	19	M	P: Good S: Fair - Sizable, historic, westerly lower stem wound with strong woundwood formation and minor insipient decay present	Raise low canopy - To 4.0m	3 Months	24 months

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Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
5	Robinia *Robinia pseudoacacia*	6	EM	P:Fair S: Good	Raise low canopy - To 4.0m	3 Months	24 months
6	Sycamore *Acer pseudoplatanus*	13	M		Tree removed		
7	Common Ash *Fraxinus excelsior*	14	M	P: Good S: Good	No work required		24 months
8	Sycamore *Acer pseudoplatanus*	4	EM		Tree removed		

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Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
9	Sycamore *Acer pseudoplatanus*	11	M		Tree removed.		
10	Bird Cherry *Prunus padus*	3	EM	P: Good S: Fair - Multi-stem tree re-grown from a previously cur stump	No work required		24 months
11	Sycamore *Acer pseudoplatanus*	12	M	P: Good S: Good	Remove - Major dead wood	3 Months	24 months
12	Sycamore *Acer pseudoplatanus*	11	M		Tree removed.		
13	Sycamore *Acer pseudoplatanus*	9	M		Tree removed.		

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Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
14	Sycamore *Acer pseudoplatanus*	6	EM	P: Poor - Tree in decline S: Poor	Fell - Fell and treat stump	2 Months	24 months
15	Sycamore *Acer pseudoplatanus*	14	M	P: Poor - Tree in decline S: Poor	Fell - Fell and treat stump	2 Months	24 months
G16	Broad-Leafed Lime *Tilia platyphyllos*	4	Y	P: Good S: Good	Linear group of 12 x recently planted trees.		24 months
G16a	Broad-Leafed Lime *Tilia platyphyllos*	4	Y	P: Poor - Extensive dieback from upper crown S: Poor	Fell Remove stump Replacement planting recommended.	6 months	NA
G16b	Broad-Leafed Lime *Tilia platyphyllos*	4	Y	P: Good S: Good	Shorten lateral branches away from bus shelter	3 Months	24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
17	Common Horse Chestnut *Aesculus hippocastanum*	13	M		Tree removed.		
18	Common Horse Chestnut *Aesculus hippocastanum*	10	M		Tree removed.		
19	Austrian Pine *Pinus nigra ssp. Nigra*	12	M	P: Good S: Good	Remove dead southerly primary branch at 6m height	3 Months	24 months
20	Austrian Pine *Pinus nigra ssp. Nigra*	9	M	P: Good S: Good	No work required		24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
21	Common Ash *Fraxinus excelsior*	8	EM		Tree removed		
22	Common Yew *Taxus baccata*	8	M	P: Fair - Slightly sparse foliage indicative of marginal below normal vitality S: Good	No work required		24 months
23	Common Oak *Quercus robur*	9	M	P: Fair - Sparse upper crown indicative of below normal vitality S: Fair - Long, thin branch ends extend significantly over road.	Shorten lateral branches extending over road - by 2.0m Remove major dead wood	3 Months	24 months
24	Common Ash *Fraxinus excelsior*	9	M		Tree removed		

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Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
25	Common Yew *Taxus baccata*	6	M	P: Good S: Good	Raise low canopy - To 2.5m	3 Months	24 months
26	Pissards Plum *Prunus atropurpurea*	7	M	P: Fair - Restricted access to tree S: Fair	Off-site tree with restricted acess		24 months
G27	Austrian Pine *Pinus nigra ssp. Nigra*	2	Y	P: Good S: Good	Remove tree stakes and ties	3 Months	24 months
G28	Broad-Leafed Lime *Tilia platyphyllos*	4	Y	P: Good S: Good	Group of 3 x new trees No work required		24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
29	Myrobalan Plum *Prunus cerasifera*	6	M	P: Good S: Fair - Swept stem to North	Shorten laterals - To the boundary line	3 Months	24 months
30	Common Holly *Ilex aquifolium*	5	EM	P: Good S: Good	Multi-stem tree No work required		24 months
31	Common Yew *Taxus baccata*	7	M	P: Good S: Good	No work required		24 months
32	Common Oak *Quercus robur*	10	M	P: Fair - Scattered dead twigs indicative of below normal vitality S: Fair - Major dead wood in crown	Remove - Major dead wood	3 Months	24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
33	Cedar of Lebanon *Cedrus libani*	9	EM	P: Fair - Small, drawn up crown S: Good	Prune away from building to achieve a 1m clearance Remove - Major dead wood	3 Months	24 months
34	Common Holly *Ilex aquifolium*	4	EM	P: Good S: Good	No work required		24 months
35	Common Box *Buxus sempervirens*	4	M	P: Good S: Good	No work required		24 months
36	Common or Black Elder *Sambucas nigra*	4	M	P: Fair - Marginal below normal vitality S: Fair	No work required		24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
37	Crab Apple *Malus sylvestris*	4	M	P: Good S: Good	No work required		24 months
G38	Maidenhair Tree *Ginkgo biloba*	4	Y	P: Good S: Good	Group of 2 x new plantings. Removed weeds from around tree bases and apply mulch	2 Months	24 months
38	Common Oak *Quercus robur*	16	M	P: Fair – Notable dieback from Northerly crown branch ends, indicates below normal vitality. S: Fair - Major dead wood in crown	Tree located in playground Reduce crown height - by 3.0m Reduce crown radial spread - by 2.0m Remove - Major dead wood	2 Months	24 months
39	Common Oak *Quercus robur*	6	M		Tree removed.		

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Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
40	Common Ash *Fraxinus excelsior*	8	LM		Tree removed.		
41	Common Lime *Tilia europaea*	11	M		Tree removed.		
42	Atlas Cedar *Cedrus atlantica*	13	M		Tree removed.		
43	Atlas Cedar *Cedrus atlantica*	16	M		Tree removed.		
44	Common Yew *Taxus baccata*	8	M		Tree removed.		

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
45	Common Yew *Taxus baccata*	8	M		Tree removed.		
46	Common Ash *Fraxinus excelsior*	7	EM		Tree removed.		
G47	Common Ash *Fraxinus excelsior*	9	EM		Trees removed.		
48	Wild Cherry *Prunus avium*	8	M	P: Good S: Good	No work required		24 months

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Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
49	Common Hornbeam *Carpinus betulus*	10	M	P: Good S: Good	Multi-stem tree No work required		24 months
50	Common Hornbeam *Carpinus betulus*	9	M	P: Good S: Good	No work required		24 months
G51	Tibetian Cherry *Prunus serrula*	4	Y	P: Good S: Good	Multiple stems recently removed to facilitate new MUGA area extension. Remove tree stakes and ties	3 Months	24 months
G52	Pillar Apple *Malus tschonoskii*	5	Y	P: Fair S: Fair	Linear group of 3 x new plantings.		24 months
G52a	Common Pear *Pyrus communis*	5	Y	P: Dead S: Poor	Fell - Fell to ground level	2 Months	NA

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
53	Common Ash *Fraxinus excelsior*	13	M	P: Good S: Good	Remove - Major dead wood Raise low canopy - To 5.2m	2 Months	24 months
54	Common Yew *Taxus baccata*	4	EM	P: Good S: Good	No work required		24 months
55	Wild Cherry *Prunus avium*	7	M	P: Good S: Fair - Historic swept stem to North	No work required		24 months
56	Common Yew *Taxus baccata*	4	EM	P: Good S: Good	Compacted soil around rooting environment.		24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
57	Common Lime *Tilia europaea*	18	M	P: Good S: Good	No work required		24 months
58	Common Lime *Tilia europaea*	16	M	P: Good S: Good	Remove - Major dead wood Raise low canopy - To 4.0m	3 Months	24 months
59	Common Yew *Taxus baccata*	4	EM	P: Good S: Good	No work required		24 months
60	Common Lime *Tilia europaea*	9	EM	P: Good S: Good	No work required		24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
61	Common Ash *Fraxinus excelsior*	17	M		Tree removed		
62	Common Lime *Tilia europaea*	17	M	P: Good S: Fair - Major dead wood in crown	Remove - Major dead wood Raise low canopy - To 4.0m Ivy - Sever & remove ivy	3 Months	24 months
63	Common Lime *Tilia europaea*	6	EM	P: Good S: Good	Insufficient space for tree establishment Fell - Fell and treat stump	12 Months	24 months

Appendix 1: Tree Survey Schedule

Tree Number	Species	Height (m)	Age Class	Condition Physiological (P) & Structural (S)	Observations & Recommendations	Works Schedule	Re-inspection Frequency
64	Norway Maple *Acer platanoides*	6	EM	P: Good S: Good	Insufficient space for tree establishment	12 Months	24 months

Key:

1 - Tree no. 1

G16 - Group of trees no. 16

• - Tree trunk location

- Site boundary

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Appendix 2: Tree Locations Plan

Site: Dunraven Secondary School
94/98 Leigham Court Road
London SW16 2QB

SCALE :	DATE :
1 : 1250 @ A4	10/10/2014

MAP FILENAME : TLP-01

N

Appendix 3: Tree Works Schedule

Tree Number	Species	Height (m)	Age Class	Tree works prescription	Works Schedule
1	Common Ash *Fraxinus excelsior*	10	EM	Fell - Fell and treat stump	3 Months
2	Common Lime *Tilia europaea*	15	M	Raise low canopy - To 4.0m	3 Months
3	Common Lime *Tilia europaea*	13	M	Raise low canopy - To 4.0m	3 Months
4	Common Lime *Tilia europaea*	19	M	Raise low canopy - To 4.0m	3 Months
5	Robinia *Robinia pseudoacacia*	6	EM	Raise low canopy - To 4.0m	3 Months

Appendix 3: Tree Works Schedule

Tree Number	Species	Height (m)	Age Class	Tree works prescription	Works Schedule
11	Sycamore *Acer pseudoplatanus*	12	M	Remove - Major dead wood	3 Months
14	Sycamore *Acer pseudoplatanus*	6	EM	Fell - Fell and treat stump	2 Months
15	Sycamore *Acer pseudoplatanus*	14	M	Fell - Fell and treat stump	2 Months
G16a	Broad-Leafed Lime *Tilia platyphyllos*	4	Y	Fell Remove stump Replacement planting recommended.	6 months
G16b	Broad-Leafed Lime *Tilia platyphyllos*	4	Y	Shorten lateral branches away from bus shelter	3 Months

Appendix 3: Tree Works Schedule

Tree Number	Species	Height (m)	Age Class	Tree works prescription	Works Schedule
19	Austrian Pine *Pinus nigra ssp. Nigra*	12	M	Remove dead southerly primary branch at 6m height	3 Months
23	Common Oak *Quercus robur*	9	M	Shorten lateral branches extending over road - by 2.0m Remove major dead wood	3 Months
25	Common Yew *Taxus baccata*	6	M	Raise low canopy - To 2.5m	3 Months
G27	Austrian Pine *Pinus nigra ssp. Nigra*	2	Y	Remove tree stakes and ties	3 Months

Appendix 3: Tree Works Schedule

Tree Number	Species	Height (m)	Age Class	Tree works prescription	Works Schedule
29	Myrobalan Plum *Prunus cerasifera*	6	M	Shorten laterals - To the boundary line	3 Months
32	Common Oak *Quercus robur*	10	M	Remove - Major dead wood	3 Months
33	Cedar of Lebanon *Cedrus libani*	9	EM	Prune away from building to achieve a 1m clearance Remove - Major dead wood	3 Months
G38	Maidenhair Tree *Ginkgo biloba*	4	Y	Group of 2 x new plantings. Removed weeds from around tree bases and apply mulch	2 Months

Appendix 3: Tree Works Schedule

Tree Number	Species	Height (m)	Age Class	Tree works prescription	Works Schedule
38	Common Oak *Quercus robur*	16	M	Reduce crown height - by 3.0m Reduce crown radial spread - by 2.0m Remove - Major dead wood	2 Months
G51	Tibetian Cherry *Prunus serrula*	4	Y	Remove tree stakes and ties	3 Months
G52a	Common Pear *Pyrus communis*	5	Y	Fell - Fell to ground level	2 Months
53	Common Ash *Fraxinus excelsior*	13	M	Remove - Major dead wood Raise low canopy - To 5.2m	2 Months
58	Common Lime *Tilia europaea*	16	M	Remove - Major dead wood Raise low canopy - To 4.0m	3 Months

Appendix 3: Tree Works Schedule

Tree Number	Species	Height (m)	Age Class	Tree works prescription	Works Schedule
62	Common Lime *Tilia europaea*	17	M	Remove - Major dead wood Raise low canopy - To 4.0m Ivy - Sever & remove ivy	3 Months
63	Common Lime *Tilia europaea*	6	EM	Insufficient space for tree establishment Fell - Fell and treat stump	12 Months
64	Norway Maple *Acer platanoides*	6	EM	Insufficient space for tree establishment	12 Months