# Arboricultural Impact Assessment for a proposed development: Prospect Residential Development, Athenry, Co Galway

Prepared by Linnane Arboriculture Ltd, in association with Griffin Landscape Architecture





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**Appendix 3** Tree Constraints Plan"(D1-TCP)

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#### 1 Introduction

- 1.1 The following Arboricultural Impacts Statement has been prepared by Alan Linnane arboricultural, consultant with Linnane Arboriculture Ltd, in association with Griffin Landscape Architecture. Prospect Residential Development have requested that this survey to be carried out so to aid the design team with a proposed development. This report and Arboriculture Impacts assessment is compiled in conjunction with the tree survey report.
- **1.2** The report addresses the impacts imposed by the proposed development and detailed on the Tree Constraints Plan, the Tree Protection Plan and the Tree Impacts Plan drawn up by Griffin landscape Architects.
- **1.3** This report is based on an inspection of the tree population on the site in association with the details of the proposed development.

# 2 Experience and Qualifications

2.1 Arboricultural Consultant-Alan Linnane, 2014 to 2017- Completed UK level 6 Diploma in arboriculture. 2013 - Completed and have been certified as a professional tree inspector, which is a LANTRA award accredited course run by the Arboriculture Association. 2012 - Completed the UK level 4 Diploma in arboriculture. 18 years working as a climbing arborist and since 2012 has been inspecting trees and preparing arboricultural reports and surveys while providing tree consultancy services through Linnane Arboriculture Ltd.

# 3 Instruction

- **3.1** Linnane Arboriculture Ltd are requested by Prospect Residential Development to prepare an Arboricultural Impacts Assessment for proposed development at Prospect, Athenry, Co Galway This report should be read in conjunction with the Tree Constraints Plan (TCP), Tree impacts Plan (TIP) and the Tree Protection Plan (TPP).
- **3.2** The "Tree Constraints Plan" (TCP) drawing "Drawing 1-TCP" that provides a graphic representation of tree survey data, depicting the constraints asserted by the site trees, as well as a categorisation of their condition and potential value.

- **3.3** The drawing "Tree Impacts Plan" (TIP) drawing, "Drawing 2-TIP" depicts the expected impacts by overlaying the tree information as depicted in drawing "Drawing 1-TCP" with the architectural and engineering information.
- **3.4** The "Tree Protection Plan" (TPP) "Drawing 2-TPP" depicts the location of the tree protection measures required to prevent damage and disturbance to trees or hedgerows intended for retention.

#### 4 Limitations

- **4.1** This report is for the sole use of the above named client and refers to only those trees identified within; use by any other person(s) in attempting to apply its contents for any other purpose renders the report invalid for that purpose. Unless otherwise stated all trees are surveyed from ground level using non-invasive techniques, in sufficient detail to gather data for and inform the design of the current project only.
- **4.2** The disclosure of hidden crown and stem defects, in particular where they may be above a reachable height or where trees are ivy clad or in areas of ground vegetation, cannot therefore be expected. All obvious defects, however, are reported. Detailed tree safety appraisals are only carried out under specific written instructions. Comments upon evident tree safety relate to the condition of said tree at the time of the survey only.
- 4.3 Unless otherwise stated all trees should be re-inspected annually in order to appraise their on-going mechanical integrity and physiological condition. It should, however, be recognized that tree condition is subject to change, for example due to the effects of disease, decay, high winds, development works, etc. Changes in land use or site conditions (e.g. development that increases access frequency) and the occurrence of severe weather incidents are also significant considerations with regards tree structural integrity and trees should therefore be re-assessed in the context of such changes and/or incidents and inspected at intervals relative to identified and varying site conditions and associated risks.

## 5 Site Description

- **5.1** The subject site is situated South of Athenry town in County Galway. The site is irregular shaped and mainly a brown field site on the Southern section, with a residential dwelling North of the site.
- **5.2** On the Northern part of the site a residential house and garden is located, which is the area where most of the mature trees and vegetation have been recorded.
- **5.3** The site slopes gradually Southwards into a point and large mound of soil is heaped adjacent to the furthest Southeast boundary.
- **5.4** The land is not in agricultural use at present which has led to much weed growth including thistle, bramble and giant hogweed.
- **5.5** Directly outside of the west boundary is a road which during widening has resulted in damage to the trees alongside the road.

# 6 Existing tree population

- **6.1** The observations recorded in the tree survey indicate a mixture of species and age. The Northern section of the site comprises of mainly mature Poplar and Sycamore trees and 2 lines of cypress planted for screening and shelter purposes.
- **6.2** In the Northeast section an emerging group of young willow trees growing at close spacing's form a square like group of trees, to the rear of the residential dwelling.
- **6.3** The East boundary of the site comprises mainly of a whitethorn and bramble hedge line dividing the site from the railway line. A more mature number of whitethorn trees are situated on the most Southerly section of the site which tapers off into a wedge like shape.
- **6.4** On the Southwest to Northwest boundary a mixture of middle age and mature Ash, Elm, whitethorn and Sycamore are situated, some of which are growing outside of the boundary wall. The majority of the ash trees on the site show signs of ash dieback disease (Hymenoscyphus fraxineus).
- **6.5** A very large very well formed ash tree is growing in the North section of the site near the Southern boundary of the residential dwelling, though this has signs of early stage ash dieback and should be monitored.

# 7 Arboriculture Impacts Assessment.

- **7.1** The review of likely Arboricultural implications is based upon the recommendations and criteria as defined within BS5837: 2012 Trees in Relation to Design, Demolition and Construction Recommendations. In respect of tree impacts, any structure, action or apparent need to enter or otherwise disturb/convert the "root protection area" of a site tree has been considered likely to have a negative impact, with the potential to render a tree wholly unsuitable for retention, unsafe or unsustainable.
- **7.2 Category U** trees that are 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. There are 3 category U trees on the site.
- **7.3 Category** A Indicates a tree of high quality and value. These are trees that are particularly good examples of their species, which also provide landscape value. These trees are in such a condition as to be able to make a substantial contribution. (A minimum of 40 years is suggested) There are 3 category A trees on the site.
- **7.4 Category B** trees Indicates a tree of moderate quality and value. Trees that might be included in the high category, but are downgraded because of impaired condition. These trees are in such a condition as to make a significant contribution. The site supports 26 category B trees.
- **7.5 Category C** trees Indicates a tree of low quality and value trees with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter of below 150mm and/or <10m in height, include Nos. The site supports 26 category C trees.

# **Hedgerows**

**7.6** The site comprises of one hedgerow on the East boundary which is made up of a mixture of whitethorn, ash, sycamore and bramble. The growth of the hedge is sporadic with gaps in various areas.

# **Trees**

**7.7** A total of 58 trees have been recorded on this survey. The anticipated development impacts have been illustrated graphically on drawing "TIP-Drawing 2" within which trees denoted with "Dashed Black" crown outlines will be removed and those denoted with "Continuous Green" crown outlines will be retained. The propose development will require the removal of 33 individual trees, 1 tree line and 1 tree group.

- **7.8** Trees to be removed: 4830 4831 4831A 4832 4833 4834 4835 4836 4837 4838 4839 4840 4841 4842 4843 4844 4845 4846 4847 4848 4849 4850 4851 4852 4853 4854 4855 4856 4857 4858 4859 4870 4873.
- **7.9** Tree line to be removed to facilitate the development, include 6 Leyland cypress trees and Tree Group 1 consisting of young willow trees.

# 8.0 Tree Survey

This survey has been based upon many of the criteria put forward in BS 5837: 2012 – Trees in Relation to Design, Demolition and Construction – Recommendations. The survey, its findings and management recommendations relate to the site and the conditions thereon at the time of the survey. It is likely that changes in site usage, development or other environmental changes will require an amendment of a trees potential retention status and/or its preliminary management recommendations and in some instances, may require the re-classification of a tree's suitability for retention.

# **Survey Data Collection and Methodology**

**8.1** This survey portion of the overall report is not an Implication Assessment though but provided some of the basic information regarding its compilation. The survey has been undertaken under the recommendations of BS 5837: 2012. This survey includes only tree of a stem diameter exceeding 150mm at approximately 1.50 metres from ground level. The survey relates to current site conditions, setting and context.

#### Identification

**8.2** Each of the trees described within the text has been affixed with a consecutively numbered, alloy disk that relates directly to the survey text, positioned at approximately 1.50m from ground level.

# Measurements

**8.3** Measurements are metric and defined in metres and millimetres. All trees referred to in the survey text have been measured to provide information regarding canopy height and canopy spread (north, east, south and west radii), level of canopy base and stem diameter at 1.50 meters from ground level. The dimensions provided are intended to provide a reasonable representation of a trees size and form. Whilst efforts are made to maintain accuracy, visual obstruction, especially regarding trees in groups, requires that some tree dimensions are estimated only.

# 8.4 Tree Survey Schedule

Prospect	Residentia	al Deve	lopme	nt:								
-	ey schedu		•					Re-inspection Da	ate: Octo	ber 2024		
					Ht	RPA	RPA		Ht Low	Life	,	_
Tree No	Species				(m)	(m)	(m2)	<b>Spd (NESW)</b> 4.5m,5m,3.5m,3	Br	Stage	Est. Years	5 K.
4826	Ash				10	3.96	49.27	m	E1	MA	20+	
					Obs	Signs of	early stag	e ash dieback, and r	mechanica	l damage a	and	
	Fraxinus ex	celsior			•	compac	tion on we	est side				
Rec.												0
Status	Stems (mm	1)			Physio	logical	Structura	al	Retentio	n	Risk	
0	330	0	0	0	F	air	Fair		C	<b>C1</b>	0	
-			-		Ht	RPA	RPA		Ht Low	Life		
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years	s R.
4827	Ash				15 <b>Obs</b>	5.16	83.65	4m,5m,5m,4m	E1	M	20+	
	Fraxinus ex	celsior				Good vi	gour, mec	hanical damage and	l compaction	on on wes	t side	
Rec.												0
Status	Stems (mm	1)			Physio	logical	Structura	al	Retentio		Risk	
0	430	0	0	0		air	Fair			31	0	
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years	s R.
4828	Sycamore				14	4.32	58.63	2m,2m,4m,3m	W6	М	20+	
					Obs							
	Acer pseudo <sub>l</sub>	platanus	S		Obs	Mechan	ical dama	ge and compaction	on west sid	de		
Rec.			S		٠			-			Diel	0
Rec. Status	Stems (mm	1)		0	Physio	logical	Structura	-	Retentio	n	Risk	0
Rec.			0	0	Physio			-	Retentio		<b>Risk</b> 0	0
Rec. Status	Stems (mm	1)		0	<b>Physio</b> Go	<b>logical</b> ood	<b>Structura</b> Good	al Spd (NESW)	Retentio E	on <b>31</b>		
Rec. Status 0	Stems (mm 360 Species	1)		0	Physio Go Ht (m)	logical pod RPA (m)	Structura Good RPA (m2)	Spd (NESW) 6.5m,3.5m,2m,4	Retentio E Ht Low Br	on B1 Life Stage	0 Est. Years	
Rec. Status	Stems (mm	1)		0	Physio Go	logical ood RPA	Structura Good RPA	al Spd (NESW)	Retentio	on B1 Life	0	
Rec. Status  0  Tree No  4829	Stems (mm 360 Species	n) O	0	0	Physio Go Ht (m)	logical pod RPA (m) 5.76	Structura Good RPA (m2) 104.23	Spd (NESW) 6.5m,3.5m,2m,4	Retention E Ht Low Br	on 31 Life Stage	0 Est. Years	
Rec. Status  0  Tree No  4829	Stems (mm 360 Species Sycamore	n) O	0	0	Physio Go Ht (m)	logical pod RPA (m) 5.76	Structura Good RPA (m2) 104.23	Spd (NESW) 6.5m,3.5m,2m,4 m	Retention E Ht Low Br	on 31 Life Stage	0 Est. Years	
Rec. Status 0 Tree No 4829	Stems (mm 360 Species Sycamore	o) 0	0	0	Physio Go Ht (m)	logical pod RPA (m) 5.76 compac	Structura Good RPA (m2) 104.23	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f	Retention E Ht Low Br	Life Stage M	0 Est. Years	s R.
Rec. Status  0  Tree No  4829	Stems (mm 360 Species Sycamore Acer pseudop	o) 0	0	0	Physio GG Ht (m)  14 Obs Physio GG	logical pod RPA (m) 5.76 compace logical	Structura Good RPA (m2) 104.23 tion on we Structura Good	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f	Retention E Ht Low Br E1 Formed tre Retention	Life Stage  M e	0 <b>Est. Years</b> 20+	s R.
Rec. Status  0  Tree No  4829  Rec. Status  0	Stems (mm 360 Species Sycamore Acer pseudop Stems (mm 480	n) 0 olatanus	0		Physio Go  Physio  Physio  Physio  Gt  Physio  Ht	logical pod RPA (m) 5.76 compace logical pod RPA	Structura Good RPA (m2) 104.23 tion on we Structura Good RPA	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f	Retention  Ht Low Br  E1  Formed tree  Retention  Ht Low	Life Stage  M e an Life	0 Est. Years 20+	5 R.
Rec. Status  0  Tree No  4829  Rec. Status  0	Stems (mm 360 Species Sycamore Acer pseudor Stems (mm 480 Species	n) 0 olatanus	0		Physio GG Ht (m)  14 Obs .  Physio GG Ht (m)	logical pod RPA (m) 5.76 compace logical pod RPA (m)	Structura Good RPA (m2) 104.23 tion on we Structura Good RPA (m2)	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f	Retention  Ht Low Br  E1  Formed tre  Retention  Ht Low Br	Life Stage  M  e  Life Stage  Life Stage	0 Est. Years 20+ Risk 0 Est. Years	5 R.
Rec. Status  0  Tree No  4829  Rec. Status  0	Stems (mm 360 Species Sycamore Acer pseudop Stems (mm 480	n) 0 olatanus	0		Physio Go  Physio  Physio  Physio  Gt  Physio  Ht	logical pod RPA (m) 5.76 compace logical pod RPA	Structura Good RPA (m2) 104.23 tion on we Structura Good RPA	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f	Retention  Ht Low Br  E1  Formed tree  Retention  Ht Low	Life Stage  M e an Life	0 Est. Years 20+	5 R.
Rec. Status  0  Tree No  4829  Rec. Status  0	Stems (mm 360 Species Sycamore Acer pseudor Stems (mm 480 Species	o) O Olatanus	0		Physio Go Ht (m)  14 Obs .  Physio Go Ht (m)  10	logical pod RPA (m) 5.76  compace logical pod RPA (m) 3.88	Structura Good RPA (m2) 104.23 tion on we Structura Good RPA (m2)	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f al Spd (NESW) 3m,3m,3.5m,3m	Retention  Ht Low Br  E1  Formed tre  Retention  Ht Low Br	Life Stage  M  e  Life Stage  Life Stage	0 Est. Years 20+ Risk 0 Est. Years	5 R.
Rec. Status  0  Tree No  4829  Rec. Status  0	Stems (mm 360 Species Sycamore Acer pseudor Stems (mm 480 Species Ash	o) O Olatanus	0		Physio Go Ht (m)  14 Obs .  Physio Go Ht (m)  10 Obs	logical pod RPA (m) 5.76  compace logical pod RPA (m) 3.88	Structura Good RPA (m2) 104.23 tion on we Structura Good RPA (m2) 47.29	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f al Spd (NESW) 3m,3m,3.5m,3m	Retention  Ht Low Br  E1  Formed tre  Retention  Ht Low Br	Life Stage  M  e  Life Stage  Life Stage	0 Est. Years 20+ Risk 0 Est. Years	5 R.
Rec. Status  0  Tree No  4829  Rec. Status  0  Tree No 4829A	Stems (mm 360 Species Sycamore Acer pseudor Stems (mm 480 Species Ash	olatanus  o)  0	0		Physio Go Ht (m)  14 Obs .  Physio Go Ht (m)  10 Obs	logical POD RPA (m) 5.76  compace logical POD RPA (m) 3.88  Growing	Structura Good RPA (m2) 104.23 tion on we Structura Good RPA (m2) 47.29	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f al  Spd (NESW) 3m,3m,3.5m,3m e garden	Retention  Ht Low Br  E1  Formed tre  Retention  Ht Low Br	Life Stage  M  E  M  A  Life Stage  MA	0 Est. Years 20+ Risk 0 Est. Years	0 s R.
Rec. Status  0  Tree No  4829  Rec. Status  0  Tree No  4829A	Stems (mm 360 Species Sycamore Acer pseudop Stems (mm 480 Species Ash Fraxinus ex	olatanus olatanus olatanus ceelsior	0		Physio Go Ht (m)  14 Obs .  Physio Go Ht (m)  10 Obs .  Physio	logical POD RPA (m) 5.76  compace logical POD RPA (m) 3.88  Growing	Structura Good RPA (m2)  104.23  tion on we Structura Good RPA (m2)  47.29	Spd (NESW) 6.5m,3.5m,2m,4 m est side. A medium f al  Spd (NESW) 3m,3m,3.5m,3m e garden	Retention  Ht Low Br  E1  Formed tre  Retention  Ht Low Br  S3	Life Stage  M  E  M  A  Life Stage  MA	0 Est. Years 20+  Risk 0 Est. Years 20+	0 s R.

					(m)	(m)	(m2)		Br	Stage		
4829B	Ash				8	2.55	20.43	2m,1m,2m,2m	N3	Υ	10+	
	Fraxinus	excelsior			Obs			sh dieback				
Rec.							J					(
Status	Stems (n	ım)			Physic	logical	Structur	al	Retentio	n	Risk	
0	150	150	0	0	-	air	Good		(	<b>C1</b>	0	
					Ht	RPA	RPA		Ht Low	Life		
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	s R
4829C	Lawson	cypress			10	3.36	35.47	2m,2m,2m,2m	S3	Υ	20+	
					Obs							
	ımaecypar	is lawsor	niana		•	Part of p	orivate gar	rden tree line				
Rec.												(
Status	Stems (n	-			-	logical	Structur	al	Retentio		Risk	
0	280	0	0	0		ood RPA	Good		Ht Low	C1 Life	0	
Tree No	Species				Ht (m)	(m)	RPA (m2)	Spd (NESW)	Br	Stage	Est. Year	s R
4829D	Lawson	cvpress			10	4.2	55.42	3m,2m,2m,2m	S2	MA	20+	
		-,,,			Obs		33	····,=···,=···	<b>0</b> -			
Cho	таесураг	is lawsor	niana		•	Part of	orivate gar	rden tree line				
Rec.							_					(
Status	Stems (n	ım)			Physic	logical	Structur	al	Retentio	n	Risk	
0	350	0	0	0	G	ood	Good		(	<b>C1</b>	0	
					Ht	RPA	RPA		Ht Low	Life		
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	s R
4829E	Ash				9	4.68	68.81	5m,5m,5m,2m	E1	MA	10+	
	<b>5</b>				Obs	C:		altabasel, to sections a				
Rec.	Fraxinus	exceisior			•	Signs of	early asn	dieback in private g	arden			
	Chama In	\			Dhasia	la cia al	Charles advisor	-1	Detentio		Dial.	(
Status	Stems (n	-	0	0	-	logical	Structur	aı	Retentio	on C <b>1</b>	Risk	
0	390	0	0	0	Ht	air <b>RPA</b>	Fair RPA		Ht Low	Life	0	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	s R
4829F	Lawson	cypress			7	2.88	26.06	2m,2m,1m,1m	E3	Υ	20+	
					Obs							
Cho	таесураг	is lawsor	niana			Part of p	orivate gar	rden tree line				
Rec.												(
Status	Stems (n	ım)			Physic	logical	Structur	al	Retentio	n	Risk	
0	240	0	0	0	G	ood	Good		(	C1	0	
Tuos N	Cm = =! = =				Ht (m)	RPA	RPA	Cond (NECLA)	Ht Low	Life	Fet V	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	5 K
4830	Sycamo	е			16 <b>Obs</b>	8.57	230.73	6m,4m,7m,7m	SE3	M	20+	
			116			Growin	from wal	ll and close to Prosp	ect road			
	Acer near	リヘカリベナベル・	us		•	GIOWIII	5 ITOITI Wdl	ii aliu ciose to Plosp	rect TOdu			(
	Acer pseud	iopiatani										
Rec.		·			Dhysia	logical	Structur	al	Potontio	n .	Dick	
Rec. Status	Stems (n	nm)	300	0	-	logical	Structur	al	Retentio		Risk	
		·	300	0	-	ological	Structur Fair RPA	al		on 31 Life	Risk 0	

								5m,7m,8.5m,4.5				
4831	Ash				17	9.18	264.75	m	S2	M	20+	
	Eravinus	excelsior			Obs	_	early stag Prospect	e ash dieback. Com	pression fo	rk presen	t and growii	ng
Rec.	riuxiiius	exceisioi			•	ciose to	Prospect	Toau				0
Status	Stome Im	am)			Dhysia	logical	Structura	al	Retentio		Risk	U
o O	Stems (m 570	510	0	0	-	<b>logical</b> air	Fair	aı		21	0	
0	370	310		0	Ht	RPA	RPA		Ht Low	Life	U	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	s R.
4831A	Sycamo	re			15 <b>Obs</b>	5.01	78.85	5m,6m,6m,4m	E2	M	20+	
,	Acer pseud	doplatanus	;			Growing	g out of wa	all, close to Prospect	t road			
Rec.	Monitor											
Status	Stems (m	nm)			Physio	logical	Structura	al	Retentio	n	Risk	
0	300	290	0	0	-	ood	Good		В	31	0	
					Ht	RPA	RPA		Ht Low	Life		
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	s R.
4832	Ash				20 <b>Obs</b>	15	706.86	11m,13m,13m,1 0m	E1 W1	ОМ	20+	
	Fraxinus	excelsior				Reasona	able vigou	r on a fine tree.				
Rec.	Cut ivy	and monito	or									
Status	Stems (	mm)			Physio	logical	Structura	al	Retentio	n	Risk	
Medium	1250	0	0	0	G	ood	Good			A	Mediur	n
T N.	<b>6</b>				Ht (····)	RPA	RPA	Cond (NEC)A()	Ht Low	Life	Est Vasa	- 0
Tree No 4833	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	5 K.
4033					Obs	3.91	48.03	3m,2m,4m,3m	S1.5	Y	10+	
_	Fraxinus	excelsior			•	Signs of	early stag	e ash dieback, and o	compression	n fork pre	sent	
Rec.												0
Status	Stems (m					logical	Structura	al	Retentio		Risk	
0	240	220	0	0		air	Good			1:6-	0	
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Year	s R.
4834	Willow				8	3.53	39.15	4m,4m,4m,4m	S1.5	MA	40+	
					Obs	3.33	33.13	,,,	31.3		10	
	Salix c	caprea				South w	est corne	r of tree group 1				
Rec.		,										0
Status	Stems (m	nm)			Physio	logical	Structura	al	Retentio	n	Risk	
0	170	-	120	120	-	ood	Good		E	32	0	
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Year	s R.
4835	Willow				8 <b>Obs</b>	1.97	12.19	2m,3m,3m,2m	S1.5	MA	40+	
	Salix c	caprea				Edge of	tree group	o 1				
Rec.						=	- '					0
Chahua					ы .	امعنعما	<b>.</b> .	•	D - 4 4 -			
Status	Stems (m	ոm)			Physio	logicai	Structura	al	Retentio	n	Risk	
Status 0	Stems (m 130	nm) 100	0	0	-	ood	Good	al		n 2	Risk 0	

Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Year	s R.
4836	Willow				8 <b>Obs</b>	2.8	24.63	3m,4.5m,3m,2m	N1	MA	40+	
	Salix ca	inrea				South o	ast end of	group 1				
Rec.	Sullx cu	preu			•	300011 6	ast end of	group 1				C
Status	Stems (mr	n)			Physio	logical	Structur	al	Retentio	n	Risk	
0	200	120	0	0	G	ood	Good		(	<b>C2</b>	0	
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Year	s R
4837					_			2m,3m,4.5m,4.5				
403/	Leyland c	ypress			9 <b>Obs</b>	3.96	49.27	m	W3	MA	20+	
	Cupressus x	leylandii				West en	d of Tree	line 2 giving screen	benefits.			
Rec.												(
Status	Stems (mr	n)			Physio	logical	Structur	al	Retentio	n	Risk	
0	330	0	0	0	G	boc	Good		(	C2	0	
					Ht	RPA	RPA		Ht Low	Life		_
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Year	s R
4838	Leyland c	ypress			6 <b>Obs</b>	3.23	32.78	2m,3m,3m,3m	S3	MA	20+	
	Cupressus x	leylandii				East end	d of Tree li	ne 2				
Rec.												
Status	Stems (mr	n)			Physio	logical	Structur	al	Retentio	n	Risk	
0	180	200	0	0	G	ood	fair		(	<b>C2</b>	0	
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Year	s R
4839	D I										4.0	
	Poplar				9	2.04	13.07	2m,1m,1.5m,2m	NW2	Υ	40+	
	Popiar				9 <b>Obs</b>	2.04	13.07	2m,1m,1.5m,2m	NW2	Y	40+	
	Populus	s spp					13.07 vell forme		NW2	Y	40+	
Rec.		s spp							NW2	Y	40+	(
Rec. Status					Obs			d tree	NW2		40+	(
	Populus		0	0	Obs • Physio	Young w	vell forme Structur Good	d tree	Retentic	on 31		(
Status 0	Populus Stems (mr	m)	0	0	Obs	Young w	vell forme	d tree	Retentic	on	Risk	
Status 0	Populus Stems (mr	m)	0	0	Obs Physica Go Ht (m) 16	Young woold you would be seen to	Structur Good RPA	d tree	Retentio	on 31 Life	Risk 0	
Status 0	Populus Stems (mr 170 Species	<b>m)</b>	0	0	Obs Physic Go Ht (m)	Young woold with the second se	Structur Good RPA (m2) 131.92	d tree  al  Spd (NESW)  3m,2m,2m,2m	Retention E Ht Low Br	on 31 Life Stage	Risk 0 Est. Year	
Status 0	Stems (mr 170 Species Poplar	<b>m)</b>	0	0	Obs Physica G( Ht (m) 16 Obs	Young woold with the second se	Structur Good RPA (m2)	d tree  al  Spd (NESW)  3m,2m,2m,2m	Retention E Ht Low Br	on 31 Life Stage	Risk 0 Est. Year	
Status  0  Tree No 4840  Rec.	Stems (mr 170 Species Poplar Populus cut ivy	m) 0	0	0	Obs Physica Go Ht (m) 16 Obs	Young woold with the second se	Structur Good RPA (m2) 131.92 ge of grou	Spd (NESW) 3m,2m,2m,2m	Retention E Ht Low Br	on 31 Life Stage M	Risk 0 Est. Year 20+	
Tree No 4840  Rec. Status	Stems (mr 170 Species Poplar	m) 0	0	0	Physical Golden	Young woold work of the second	Structur Good RPA (m2) 131.92	Spd (NESW) 3m,2m,2m,2m	Retention E Ht Low Br 0	on 31 Life Stage M	Risk 0 Est. Year	s R
Status 0 Tree No 4840	Stems (mr 170 Species Populus cut ivy Stems (mr	m) 0 s spp m)			Physical Golden	Young woold and the second and the s	Structure Good RPA (m2) 131.92 ge of group	Spd (NESW) 3m,2m,2m,2m	Retention E Ht Low Br 0	on 31 Life Stage M	Risk 0 Est. Year 20+	s R
Tree No 4840  Rec. Status Medium	Stems (mr 170 Species Populus cut ivy Stems (mr 540 Species	m) 0 s spp m)			Physion Go Go Ht Character Go Go Ht Character Go Go Go Ht Character Go	Young woold and the second sec	Structure Good RPA (m2) 131.92 ge of group Structure Good RPA	Spd (NESW) 3m,2m,2m,2m o 1 al Spd (NESW)	Retention Br  O  Retention E Ht Low Br	Life Stage M  Life Stage Stage	Risk 0 Est. Year 20+ Risk Medium	s R
Status  0 Tree No 4840  Rec. Status Medium Tree No	Stems (mr 170 Species Poplar Populus cut ivy Stems (mr 540	m) 0 s spp m)			Physical Golden	Young woold and the second and the s	Structure Good RPA (m2) 131.92 ge of group Structure Good RPA (m2)	d tree  al  Spd (NESW)  3m,2m,2m,2m  o 1  al	Retention  Ht Low  Br  O  Retention  Ht Low	on 31 Life Stage M on 31 Life	Risk 0 Est. Year 20+ Risk Medium	s R
Status  0 Tree No 4840  Rec. Status Medium Tree No	Stems (mr 170 Species Populus cut ivy Stems (mr 540 Species	m) 0 s spp m) 0			Physion Go Physion Go Physion Go Ht (m) 18	Young woold and the second and the s	Structure Good RPA (m2) 131.92 ge of group Structure Good RPA (m2)	Spd (NESW) 3m,2m,2m,2m o 1 al Spd (NESW)	Retention Br  O  Retention E Ht Low Br	Life Stage M  Life Stage Stage	Risk 0 Est. Year 20+ Risk Medium	s R
Status  0 Tree No 4840  Rec. Status Medium Tree No	Stems (mr 170 Species Populus cut ivy Stems (mr 540 Species Poplar	m) 0 s spp m) 0			Physion Go Physion Go Physion Go Ht (m) 18	Young woold and the second and the s	Structure Good RPA (m2) 131.92 ge of group Structure Good RPA (m2)	Spd (NESW) 3m,2m,2m,2m o 1 al Spd (NESW)	Retention Br  O  Retention E Ht Low Br	Life Stage M  Life Stage Stage	Risk 0 Est. Year 20+ Risk Medium	<u>m</u>

											_
Medium	390	0	0	0		ood	Good		В	32	Medium
T NI	C				Ht (····)	RPA	RPA	C 1 (NICC)A()	Ht Low	Life	Fat Value I
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4842	Poplar				18	3.6	40.72	3m,3m,1m,1m	0	M	40+
					Obs						
_	Populu	s spp			•						
Rec.	Cut ivy										
Status	Stems (mi	m)			Physic	logical	Structura	al	Retentio		Risk
Medium	300	0	0	0		ood	Good			32	Medium
Tues Ne	Consider				Ht (***)	RPA	RPA	Cmd (NEC)A/)	Ht Low	Life	Fat Vasua F
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4843	Poplar				18 <b>O</b> ba	4.32	58.63	3m,2m,2m,1m	0	M	40+
					Obs						
<b>D</b>	Populu	s spp			•						
Rec.	Cut ivy						_		_		
Status	Stems (mi	-				logical	Structura	al	Retentio		Risk
Medium	360	0	0	0		ood	Good			32	Medium
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years F
4844	Poplar				17	5.76	104.23	4m,3m,3m,2m	0	M	40+
1011	Γοριαί				Obs	3.70	104.23	4111,3111,3111,2111	U	IVI	40*
	Populu.	ccnn				Evcassiv	e ivy cove	r			
Rec.	Cut ivy	<i>3 3pp</i>			•	LACESSIV	e ivy cove	ı			
Status	Stems (mi	m)			Dhysia	logical	Structura	al	Retentio	n	Risk
Medium	480	0	0	0	-	_		aı		32	
viedium	480	0	- 0		Ht	ood <b>RPA</b>	Good RPA		Ht Low	Life	Medium
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4845	Willow				8	3.14	30.97	4m,4m,1m,2.5m	0	М	40+
					Obs			, , ,			
	Salix ca	aprea									
Rec.		•									
Status	Stems (mi	m)			Physic	logical	Structura	al	Retentio	n	Risk
Status 0	Stems (mi	•	0	0	-	ological	Structura Good	al	Retentio		Risk 0
Status 0	Stems (mi	<b>m)</b> 180	0	0	-	ological ood RPA	Structura Good RPA	al		in C2 Life	Risk 0
	•	•	0	0	G	ood	Good	Spd (NESW)	C	2	
0	190	•	0	0	G(	ood RPA	Good RPA		Ht Low	Life	0
0 Tree No	190 Species	•	0	0	Ht (m)	RPA (m)	Good RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	0 Est. Years F
0 Tree No	190 Species	180	0	0	G( Ht (m)	RPA (m) 4.8	Good RPA (m2)	<b>Spd (NESW)</b> 3m,1m,1m,1m	Ht Low Br	Life Stage	0 Est. Years F
0 Tree No	190  Species Poplar	180	0	0	Ht (m) 18 Obs	RPA (m) 4.8	Good RPA (m2) 72.38	<b>Spd (NESW)</b> 3m,1m,1m,1m	Ht Low Br	Life Stage	0 Est. Years F
0 Tree No 4846	190  Species  Populus	180 s spp	0	0	Ht (m) 18 Obs	RPA (m) 4.8	Good RPA (m2) 72.38	<b>Spd (NESW)</b> 3m,1m,1m,1m	Ht Low Br	Life Stage M	0 Est. Years F
7 Tree No 4846	Species Populus Cut ivy	180 s spp	0	0	Ht (m) 18 Obs	RPA (m) 4.8 Excessiv	RPA (m2) 72.38 The ivy cove	<b>Spd (NESW)</b> 3m,1m,1m,1m	Ht Low Br 0	Life Stage M	0 Est. Years F 20+
Tree No 4846  Rec. Status Medium	Species Populu Cut ivy Stems (mi	180 s spp			Ht (m) 18 Obs . Physic	RPA (m) 4.8  Excessive slogical moderates RPA	Good  RPA (m2)  72.38  re ivy cove  Structura Good  RPA	Spd (NESW) 3m,1m,1m,1m r	Ht Low Br 0 Retention	Life Stage M	0 Est. Years F 20+ Risk Medium
Tree No 4846  Rec. Status Medium Tree No	Species Populus Cut ivy Stems (mi 400 Species	180 s spp			Ht (m) 18 Obs . Physica Grid Ht (m)	RPA (m) 4.8  Excessive elogical cod RPA (m)	Good  RPA (m2)  72.38  re ivy cove  Structura Good  RPA (m2)	<b>Spd (NESW)</b> 3m,1m,1m,1m	Ht Low Br 0 Retentio	Life Stage M	Est. Years F 20+  Risk  Medium  Est. Years F
Tree No 4846  Rec. Status Medium	Species Populu Cut ivy Stems (mi	180 s spp			Ht (m)  18 Obs .  Physic Gill Ht (m)  16	RPA (m) 4.8  Excessive slogical moderates RPA	Good  RPA (m2)  72.38  re ivy cove  Structura Good  RPA	Spd (NESW) 3m,1m,1m,1m r	Ht Low Br 0 Retention	Life Stage M	Est. Years F 20+  Risk  Medium
Tree No 4846  Rec. Status Medium Tree No	Species Populus Cut ivy Stems (mi 400 Species	180 s spp			Ht (m) 18 Obs . Physica Grid Ht (m)	Excessive old	Good RPA (m2) 72.38 re ivy cove Structura Good RPA (m2) 68.81	Spd (NESW) 3m,1m,1m,1m  r al  Spd (NESW) 4m,3m,1m,3m	Ht Low Br 0 Retentio	Life Stage M  C2  Life Stage	Est. Years F 20+  Risk  Medium  Est. Years F
Tree No 4846  Rec. Status Medium  Tree No 4847	Species Populus Cut ivy Stems (mi 400 Species	180 s spp m) 0			Ht (m)  18 Obs .  Physic Gill Ht (m)  16	Excessive old	Good  RPA (m2)  72.38  re ivy cove  Structura Good  RPA (m2)	Spd (NESW) 3m,1m,1m,1m  r al  Spd (NESW) 4m,3m,1m,3m	Ht Low Br 0 Retentio	Life Stage M  C2  Life Stage	Est. Years F 20+  Risk  Medium  Est. Years F
Tree No 4846  Rec. Status Medium Tree No	Species Populus Cut ivy Stems (mi 400 Species Poplar	180 s spp m) 0			Ht (m)  18 Obs  Physic  GHt (m)  16 Obs	Excessive old	Good RPA (m2) 72.38 re ivy cove Structura Good RPA (m2) 68.81	Spd (NESW) 3m,1m,1m,1m  r al  Spd (NESW) 4m,3m,1m,3m	Ht Low Br 0 Retentio	Life Stage M  C2  Life Stage	Est. Years F 20+  Risk  Medium  Est. Years F

Medium	390	0	0	0	G	ood	Fair			2	Medium
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years R
4848	Sycamore				19 <b>Obs</b>	8.32	217.47	6m,5m,6m,6m	<b>S4</b>	М	20+
	A cor pooudo	nlatanıı				Evensi					
Rec.	A <i>cer pseudo</i> Cut ivy	piatanu	S		•	Excessiv	e ivy cove	r.			
Status	Stems (mn	۵۱			Dhysio	logical	Structura	al	Retentio	'n	Risk
Medium	-	480	0	0	-	ood	Fair	aı		32	Medium
ivieululli	300	460	- 0		Ht	RPA	RPA		Ht Low	Life	ivieuluiii
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4849	Poplar				17	3.6	40.72	5m,3m,2m,2m	0	М	20+
	·				Obs						
	Populus	spp				Weighte	ed northw	ards with excessive	ivy cover		
Rec.	Cut ivy										
Status	Stems (mn	ո)			Physio	logical	Structura	al	Retentio	n	Risk
Medium	300	0	0	0	G	ood	Fair		C	2	Medium
					Ht	RPA	RPA		Ht Low	Life	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4850	Sycamore				19 <b>Obs</b>	10.8	366.44	7m,5m,8m,7m	0	М	20+
,	Acer pseudo	platanu	S			Compre	ssion fork	, part tensile			
Rec.	Cut ivy										
Status	Stems (mn	n)			Physio	logical	Structura	al	Retentio	n	Risk
Medium	900	0	0	0	G	ood	Fair		E	32	Medium
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years I
4851	Poplar				15	6	113.1	8m,3m,1m,1m	0	М	10+
					Obs						
	Populus	spp			•	Heavily	weighted	Northwards			
Rec.	Cut ivy										
Status	Stems (mn	n)			Physio	logical	Structura	al	Retentio	n	Risk
High	500	0	0	0		ood	Fair			2	High
Troc No	Snasia-				Ht (m)	RPA	RPA	Snd (NESSA)	Ht Low	Life	Est Vasus
Tree No <b>4852</b>	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years I
4032	Poplar				16 <b>Obs</b>	5.04	79.8	2m,2m,1m,2m	0	М	20+
	Populus	cnn			Ons						
	-	<i>σ</i> ρρ			•						
Rec		۵۱			Dhysio	logical	Structura	al	Retentio	ın.	Risk
Rec.	Cut ivy			0		ood	Good	aı		32	Medium
Status	Stems (mn	•	Λ		G		RPA		Ht Low	Life	ivieulum
	•	0	0		Ht	RPA				LIIC	
Status	Stems (mn	•	0	0	Ht (m)	RPA (m)	(m2)	Spd (NESW)	Br	Stage	Est. Years I
<b>Status</b> Medium	Stems (mn	•	0	0				Spd (NESW) 3m,4m,3m,4m			Est. Years I
Status Medium Tree No	Stems (mn 420 Species	•	0	0	(m)	(m)	(m2)		Br	Stage	
Status Medium Tree No	Stems (mn 420 Species	0	0	0	(m) 18	(m) 6.84	(m2)	3m,4m,3m,4m	Br	Stage	
Status Medium Tree No	Stems (mn 420 Species Poplar	0	0		(m) 18 <b>Obs</b>	(m) 6.84	(m2) 146.98	3m,4m,3m,4m	Br	Stage	Est. Years F 20+

Medium	570	0	0	0		ood	Good			32	Medium
Tue - N -	Consider.				Ht (m)	RPA	RPA	Cond (NEC)41)	Ht Low	Life	Fat V 5
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years R
4854	Poplar				14	4.92	76.05	5m,1m,1m,2m	0	М	20+
					Obs						
D	Populus	s spp			•	Weighte	ed northw	ards			
Rec.	Cut ivy										
Status	Stems (mr	•			-	logical	Structur	al	Retentio		Risk
Medium	410	0	0	0		ood	Fair			2	Medium
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years F
4855	Poplar									_	
7033	Роріаі				10 <b>Obs</b>	5.76	104.23	2m,1m,1m,1m	0	OM	10+
	Populus	con			Obs	Dead tr	00				
Rec.	•	s sμμ			•	Deau ti	ee				
	Remove				Dharaia	1	C1	-1	D.tti.	_	p:-l-
Status	Stems (m	-		•	-	logical	Structur	aı	Retentio		Risk
Medium	480	0	0	0	Ht	oor <b>RPA</b>	Poor RPA		Ht Low	U Life	Medium
Tree No	Species				пі (m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4856	Poplar				12	5.04	79.8	2m,4m,1m,1m	0	М	10+
	. opiai				Obs	3.04	75.0	2111,4111,2111,2111	Ü		10.
	Populus	sspp				Part fall	en onto T	4854			
Rec.	Remove	, 500				i are ran					
Status	Stems (mr	n)			Physic	logical	Structur	al	Retentio	ın	Risk
High	420	<b>,</b> 0	0	0	-	air	Poor	uı		U	High
111611	420				Ht	RPA	RPA		Ht Low	Life	111611
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years R
4857	Poplar				16	6.36	127.08	2m,3m,4m,4m	0	М	20+
	-				Obs						
	Populus	s spp									
Rec.	Cut ivy										
Status	Stems (m	ım)			Physic	logical	Structur	al	Retentio	n	Risk
Medium	530	0	0	0	G	ood	Good		E	<b>31</b>	Medium
					Ht	RPA	RPA		Ht Low	Life	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4858	Poplar				12	5.16	83.65	4m,3m,2m,3m	0	М	20+
					Obs						
	Populus	s spp			•	Excessiv	e ivy cove	er			
Rec.	Cut ivy										
Status	Stems (mr	n)			Physic	logical	Structur	al	Retentio	n	Risk
High	430	0	0	0	G	ood	Fair			2	High
Tues No.	Cma -!-				Ht (***)	RPA	RPA	Cond (NECVA)	Ht Low	Life	Fat V
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years F
4859	Poplar				16	6.84	146.98	2m,4m,5m,3m	E4	M	20+
					Obs	_					
_	Populus	sspp			•	Excessiv	e ivy cove	er			
Daa	Cut ivy										
Rec. Status	Stems (mr					logical	Structur		Retentio		Risk

High	570	0	0	0	G	ood	Good		E	32	High	
					Ht	RPA	RPA		Ht Low	Life		
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years	R.
4860	Whitetho	orn			4 <b>Obs</b>	1.8	10.18	1.5m,1.5m, 1.5m	W1	Υ	40+	
(	Crataegus n	nonogyi	па			A well s	haped sma	all tree				
Rec.	J	3,					•					0
Status	Stems (mi	m)			Physio	logical	Structura	al	Retentio	n	Risk	
0	150	,	0	0	-	ood	Good			1	0	
	130				Ht	RPA	RPA		Ht Low	Life	- U	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years	R.
4861	Whitetho	rn			8	3.12	30.58	4m,3m,2m,4m	W1	MA	40+	
					Obs	3.12	30.30	,3,2,	***		10	
	Crataegus n	าดทดสงเ	าต									0
Rec.	cratacyas n	ionogyi	14		•							0
	Chauss Issue	\			Db! -	lagical	Church	~!	Retentio		Risk	U
Status	Stems (mi	-	150	_	-	logical	Structura	aı		on 8 <b>1</b>		
0	150	150	150	0	Ht	ood RPA	Good RPA		Ht Low	Life	0	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years	: R.
4862	Whitetho	rn			12			-	W2	M	40+	
					Obs	6.48	131.92	6m,5m,6m,6m	VVZ	IVI	40+	
	Crataegus n	nonogyi	าต		•	Importa	nt habitat	tree				
Rec.												0
Status	Stems (mi	n)			Physio	logical	Structura	al	Retentio	n	Risk	
		,										
0	540	0	0	0	G	ood	Good		P	\1	0	
0	540	-	0	0	Ht	RPA	RPA		Ht Low	Life		
0 Tree No	540 Species	-	0	0				Spd (NESW)			0 Est. Years	s R.
0	540	-	0	0	Ht	RPA	RPA	<b>Spd (NESW)</b> 5m,4m,5m,5m	Ht Low	Life		s R.
0 Tree No	540 Species	0		0	Ht (m) 14 Obs	RPA (m) 6.2	RPA (m2) 120.76		Ht Low Br	Life Stage	Est. Years	s R.
0 Tree No	Species Ash	0		0	Ht (m) 14 Obs	RPA (m) 6.2	RPA (m2) 120.76	5m,4m,5m,5m	Ht Low Br	Life Stage	Est. Years	s R.
Tree No 4863	Species Ash Fraxinus e	0 xcelsion		0	Ht (m) 14 Obs	RPA (m) 6.2	RPA (m2) 120.76	5m,4m,5m,5m	Ht Low Br	Life Stage M	Est. Years	s R.
Tree No 4863  Rec. Status	Species Ash Fraxinus e Monitor	0 xcelsion		0	Ht (m)  14 Obs .	RPA (m) 6.2 Good vi	RPA (m2) 120.76 gour and g	5m,4m,5m,5m	Ht Low Br 0 way line Retentio	Life Stage M	Est. Years 20+ Risk	s R.
Tree No 4863	Species Ash Fraxinus e Monitor Stems (mi	0 xcelsion			Ht (m)  14 Obs .	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g	5m,4m,5m,5m	Ht Low Br 0 way line Retentio	Life Stage M	Est. Years	s R.
Tree No 4863  Rec. Status	Species Ash Fraxinus e Monitor Stems (mi	0 xcelsion			Ht (m)  14  Obs  Physio	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g  Structure  Good	5m,4m,5m,5m	Ht Low Br 0 way line Retentio	Life Stage M	Est. Years 20+ Risk	
Tree No 4863  Rec. Status High	Species Ash Fraxinus e Monitor Stems (mi	0 xcelsion m) 350			Ht (m)  14  Obs  Physic  Grid  Ht	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g  Structure Good  RPA	5m,4m,5m,5m	Ht Low Br 0 way line Retention E Ht Low	Life Stage M	Est. Years 20+  Risk  High	
Tree No 4863  Rec. Status High  Tree No 4864	Species Ash Fraxinus e Monitor Stems (mi 380  Species	0 xcelsion m) 350	. 0		Ht (m)  14  Obs  Physio  G  Ht (m)  8	RPA (m) 6.2 Good vi ological cood RPA (m)	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)	5m,4m,5m,5m growing close to rail al Spd (NESW)	Ht Low Br  0  way line  Retention E  Ht Low Br	Life Stage M  In  Life Stage	Est. Years 20+  Risk High Est. Years	; R.
Tree No 4863  Rec. Status High  Tree No 4864	Species Ash Fraxinus e Monitor Stems (mi 380  Species Whitetho	0 xcelsion m) 350	. 0		Ht (m)  14  Obs  Physio  G  Ht (m)  8	RPA (m) 6.2 Good vi ological cood RPA (m)	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)	5m,4m,5m,5m growing close to rail al Spd (NESW)	Ht Low Br  0  way line  Retention E  Ht Low Br	Life Stage M  In  Life Stage	Est. Years 20+  Risk High Est. Years	<b>s R.</b>
Tree No 4863  Rec. Status High  Tree No 4864	Species Ash Fraxinus e Monitor Stems (mi 380  Species Whitetho	xcelsion m) 350	. 0		Ht (m)  14  Obs  Physic  Go  Ht (m)  8  Obs  .	RPA (m) 6.2 Good vi ological cood RPA (m)	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)	5m,4m,5m,5m growing close to rail al  Spd (NESW)  1m,2m,4m,4m	Ht Low Br  0  way line  Retention E  Ht Low Br	Life Stage M  B1  Life Stage M	Est. Years 20+  Risk High Est. Years	<b>s R.</b>
Tree No 4863  Rec. Status High  Tree No 4864  Rec. Status	Species Ash Fraxinus e Monitor Stems (mi 380  Species Whitetho	xcelsion m) 350 orn nonogyi	o na	0	Ht (m)  14 Obs .  Physica Gram (m)  8 Obs .  Physica	RPA (m) 6.2 Good vi	RPA (m2) 120.76 gour and g Structure Good RPA (m2) 23.76	5m,4m,5m,5m growing close to rail al  Spd (NESW)  1m,2m,4m,4m	Ht Low Br  0 way line  Retentio  Ht Low Br  W1	Life Stage M  B1  Life Stage M	Risk High Est. Years 40+	<b>R.</b>
Tree No 4863  Rec. Status High  Tree No 4864	Species Ash Fraxinus e Monitor Stems (mi 380  Species Whitetho	xcelsion m) 350	. 0		Ht (m)  14 Obs .  Physica Gram (m)  8 Obs .  Physica	RPA (m) 6.2 Good vi ological ood RPA (m) 2.75	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)  23.76	5m,4m,5m,5m growing close to rail al  Spd (NESW)  1m,2m,4m,4m	Ht Low Br  0 way line  Retentio  Ht Low Br  W1	Life Stage M  S1  Life Stage M	Est. Years 20+  Risk High  Est. Years 40+	<b>R.</b>
Tree No 4863  Rec. Status High  Tree No 4864  Rec. Status	Species Ash Fraxinus e Monitor Stems (mi 380  Species Whitetho	xcelsion m) 350 orn nonogyi	o na	0	Ht (m)  14 Obs .  Physio Go Ht (m)  8 Obs .  Physio Go	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)  23.76  Structure Good	5m,4m,5m,5m growing close to rail al  Spd (NESW)  1m,2m,4m,4m	Ht Low Br  0 way line  Retention Br  W1  Retention	Life Stage M  S1  Life Stage M  M  S1	Risk High Est. Years 40+	6 <b>R.</b>
Tree No 4863  Rec. Status High  Tree No 4864  Rec. Status	Species Ash Fraxinus e Monitor Stems (mi 380  Species Whitetho Crataegus n Stems (mi 180	xcelsion m) 350 orn nonogyi m) 100	o na	0	Ht (m)  14 Obs GG Ht (m)  8 Obs .  Physica GG Ht (m)	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)  23.76  Structure Good  RPA (m2)	5m,4m,5m,5m growing close to rails al  Spd (NESW) 1m,2m,4m,4m al	Ht Low Br  0 way line  Retention Br  W1  Retention EHt Low Br  Ht Low Br	Life Stage M  Stage M  Life Stage M  Life Stage Stage	Risk High  Est. Years 40+  Risk  O	6 <b>R.</b>
Tree No 4863  Rec. Status High  Tree No 4864  Rec. Status 0	Species Ash Fraxinus e Monitor Stems (mi 380 Species Whitetho Crataegus n 180 Species	xcelsion m) 350 orn nonogyi m) 100	o na	0	Ht (m)  14 Obs .  Physic Go Ht (m) Go Ht (m) 8	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)  23.76  Structure Good  RPA	5m,4m,5m,5m growing close to rails al  Spd (NESW)  1m,2m,4m,4m	Ht Low Br  0 way line  Retention Br  W1  Retention EHt Low Br	Life Stage M  B1  Life Stage M  Life Stage Life Life	Risk High  Est. Years 40+  Risk 0  Est. Years	6 <b>R.</b>
Tree No 4863  Rec. Status High  Tree No 4864  Rec. Status 0  Tree No 4865	Species Ash  Fraxinus e Monitor Stems (mi 380  Species Whitetho Crataegus n 180  Species Whitetho	xcelsion m) 350 orn nonogyi m) 100	0 na 100	0	Ht (m)  14 Obs GG Ht (m)  8 Obs .  Physica GG Ht (m)	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)  23.76  Structure Good  RPA (m2)	5m,4m,5m,5m growing close to rails al  Spd (NESW) 1m,2m,4m,4m al	Ht Low Br  0 way line  Retention Br  W1  Retention EHt Low Br  Ht Low Br	Life Stage M  Stage M  Life Stage M  Life Stage Stage	Risk High  Est. Years 40+  Risk 0  Est. Years	0 0
Tree No 4863  Rec. Status High  Tree No 4864  Rec. Status 0	Species Ash Fraxinus e Monitor Stems (mi 380 Species Whitetho Crataegus n 180 Species	xcelsion m) 350 orn nonogyi m) 100	0 na 100	0	Ht (m)  14 Obs .  Physic Go Ht (m) Go Ht (m) 8	RPA (m) 6.2 Good vi	RPA (m2)  120.76  gour and g  Structure Good  RPA (m2)  23.76  Structure Good  RPA (m2)	5m,4m,5m,5m growing close to rails al  Spd (NESW) 1m,2m,4m,4m al	Ht Low Br  0 way line  Retention Br  W1  Retention EHt Low Br  Ht Low Br	Life Stage M  Stage M  Life Stage M  Life Stage Stage	Risk High  Est. Years 40+  Risk 0  Est. Years	0 0

	Stems (n	nm)			Physic	logical	Structur	al	Retentio	n	Risk
0	450	0	0	0	G	ood	Good		E	31	0
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years R
4866	Whiteth	iorn			7	2.94	27.15	3m,3m,2.5m,3m	W1	M	40+
					Obs						
Rec.	Crataegus	monogy	vna		•						
Status	Stems (n	nm)			Physic	logical	Structur	al	Retentio	on	Risk
0	200	100	100	0	-	ood	Good		E	31	0
					Ht	RPA	RPA		Ht Low	Life	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years R
4867	Whiteth	orn			8.5 <b>Obs</b>	4.8	72.38	3.5m,4.5m,4m,3 m	N2	М	40+
	Crataegus	monoay	ına			Verv we	ll formed	tree with minor dan	nage to ha	rk	
Rec.	e. acacyus	onogy			-	. Ci y vvC	orriicu				(
Status	Stems (n	nm)			Physic	logical	Structur	al	Retentio	n	Risk
0	400	0	0	0	-	ood	Good	u.		\1	0
	100				Ht	RPA	RPA		Ht Low	Life	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years R
4868	Ash				10 <b>Obs</b>	6.45	130.7	6m,7m,6m,2m	E1	М	10+
	Fraxinus	excelsio	r			Signs of	advanced	ash dieback, mecha	nical dam	age on we	st
Rec.											(
Status	Stems (n	nm)			Physic	logical	Structur	al	Retentio	n	Risk
•	210					_					
0	310	320	300	0	F	air	Fair		(	C1	0
		320	300	0	Ht	RPA	RPA		Ht Low	Life	
Tree No	Species	320	300	0	Ht (m)			Spd (NESW)	Ht Low Br		0 Est. Years R
		320	300	0	Ht	RPA	RPA	Spd (NESW) 6m,6m,6m,3m	Ht Low	Life	
Tree No	Species			0	Ht (m)	RPA (m) 5.32	RPA (m2) 88.91		Ht Low Br E1	Life Stage M	Est. Years R
Tree No	<b>Species</b> Ash			0	Ht (m) 5 Obs	RPA (m) 5.32	RPA (m2) 88.91	6m,6m,6m,3m	Ht Low Br E1	Life Stage M	Est. Years R
Tree No 4869	<b>Species</b> Ash	excelsio		0	Ht (m) 5 Obs	RPA (m) 5.32	RPA (m2) 88.91	6m,6m,6m,3m sh dieback, mechani	Ht Low Br E1	Life Stage M se on west	Est. Years R 10+ side
Tree No 4869 Rec.	Species Ash Fraxinus	excelsio		0	Ht (m)  5  Obs  Physic	RPA (m) 5.32 Advance	RPA (m2) 88.91 ed stage as Structur	6m,6m,6m,3m sh dieback, mechani	Ht Low Br E1 cal damag Retentio	Life Stage M ge on west	Est. Years R 10+ side
Tree No 4869  Rec. Status	Species Ash Fraxinus Stems (n	<i>excelsio</i> nm)	r		Ht (m)  5 Obs  Physic  F	RPA (m) 5.32 Advance blogical air RPA	RPA (m2) 88.91 ed stage as Structure Fair RPA	6m,6m,6m,3m sh dieback, mechani	Ht Low Br E1 cal damag Retentio	Life Stage M ge on west on Life	Est. Years R 10+ side Risk 0
Rec. Status  0	Species Ash Fraxinus Stems (n 300 Species	excelsio nm) 290	r		Ht (m)  5 Obs . Physic	RPA (m) 5.32 Advance blogical air RPA (m)	RPA (m2) 88.91 ed stage as Structure Fair RPA (m2)	6m,6m,6m,3m sh dieback, mechani al Spd (NESW)	Ht Low Br E1 cal damag Retentio	Life Stage M ge on west on C1 Life Stage	Est. Years R 10+ side Risk 0 Est. Years R
Rec. Status  0 Tree No 4869A	Species Ash Fraxinus Stems (n 300 Species Whiteth	excelsio n <b>m)</b> 290 norn	or 150		Ht (m)  5 Obs  Physic  F	RPA (m) 5.32 Advance blogical air RPA	RPA (m2) 88.91 ed stage as Structure Fair RPA	6m,6m,6m,3m sh dieback, mechani	Ht Low Br E1 cal damag Retentio	Life Stage M ge on west on Life	Est. Years R 10+ side Risk 0 Est. Years R 40+
Rec. Status 0 Tree No 4869A	Species Ash Fraxinus Stems (n 300 Species	excelsio n <b>m)</b> 290 norn	or 150		Ht (m)  5 Obs  Physic  F  Ht (m)  5	RPA (m) 5.32 Advance blogical air RPA (m)	RPA (m2) 88.91 ed stage as Structure Fair RPA (m2)	6m,6m,6m,3m sh dieback, mechani al Spd (NESW)	Ht Low Br E1 cal damag Retentio	Life Stage M ge on west on C1 Life Stage	Est. Years R 10+ side Risk 0 Est. Years R
Rec. Status  0 Tree No 4869A	Species Ash Fraxinus Stems (n 300 Species Whiteth Crataegus	excelsionm) 290 oorn monogy	or 150		Ht (m)  5 Obs  Physic  F  Ht (m)  5 Obs .	RPA (m) 5.32 Advance blogical air RPA (m) 2.12	RPA (m2) 88.91 ed stage as Structure Fair RPA (m2) 14.12	6m,6m,6m,3m sh dieback, mechani al Spd (NESW) 2m,2m,2m,1.5m	Ht Low Br E1 cal damag Retentio ( Ht Low Br E1	Life Stage  M ge on west  C1 Life Stage  Y	Est. Years R 10+ side Risk 0 Est. Years R 40+
Rec. Status  Tree No 4869A  Rec. Status	Species Ash Fraxinus Stems (n 300 Species Whiteth Crataegus Stems (n	excelsionm) 290 norn monogy	or 150		Physical Phy	RPA (m) 5.32 Advance blogical air RPA (m) 2.12	RPA (m2) 88.91 ed stage as Structure Fair RPA (m2)	6m,6m,6m,3m sh dieback, mechani al Spd (NESW) 2m,2m,2m,1.5m	Ht Low Br E1 cal damag Retentio Ht Low Br E1	Life Stage M se on west on C1 Life Stage Y	Est. Years R 10+ side Risk 0 Est. Years R 40+
Rec. Status  O Tree No 4869A  Rec.	Species Ash Fraxinus Stems (n 300 Species Whiteth Crataegus	excelsionm) 290 oorn monogy	or 150		Ht (m)  5 Obs  Physic  F Ht (m)  5 Obs  .  Physic  G G	RPA (m) 5.32 Advance blogical air RPA (m) 2.12	RPA (m2) 88.91 ed stage as Structure Fair RPA (m2) 14.12 Structure	6m,6m,6m,3m sh dieback, mechani al Spd (NESW) 2m,2m,2m,1.5m	Ht Low Br E1 cal damag Retention Ht Low Br E1	Life Stage M se on west  C1 Life Stage Y	Est. Years R 10+ side Risk 0 Est. Years R 40+
Rec. Status  Tree No 4869A  Rec. Status	Species Ash Fraxinus Stems (n 300 Species Whiteth Crataegus Stems (n	excelsionm) 290 norn monogy	nr 150 vna	0	Physical Phy	RPA (m) 5.32 Advance blogical air RPA (m) 2.12	RPA (m2) 88.91 ed stage as Structure Fair RPA (m2) 14.12	6m,6m,6m,3m sh dieback, mechani al Spd (NESW) 2m,2m,2m,1.5m	Ht Low Br E1 cal damag Retentio Ht Low Br E1	Life Stage M se on west on C1 Life Stage Y	Est. Years R 10+ side Risk 0 Est. Years R 40+
Tree No 4869  Rec. Status 0  Tree No 4869A  Rec. Status	Species Ash Fraxinus Stems (n 300 Species Whiteth Crataegus Stems (n 130	excelsion  190  nm)  290  norn  monogy  nm)  120	nr 150 vna	0	Ht (m)  5 Obs  Physic  F Ht (m)  5 Obs  C Physic  Ht	RPA (m) 5.32 Advance blogical air RPA (m) 2.12 blogical bood RPA	RPA (m2) 88.91 ed stage a: Structur. Fair RPA (m2) 14.12 Structur.	6m,6m,6m,3m sh dieback, mechani al Spd (NESW) 2m,2m,2m,1.5m	Ht Low Br E1 cal damag Retention Ht Low Br E1 Retention	Life Stage M ge on west  C1 Life Stage Y  C1 Life C1 Life C1 Life	Est. Years R 10+ side Risk 0 Est. Years R 40+ Risk 0

Rec.												0
Status	Stems (n	nm)			Physic	logical	Structur	al	Retentio	n	Risk	
0	200	200	210	0	G	ood	Good		E	31	0	
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years	s R.
4871	Elm				9	4.3	58.09	1m,2m,1.5m,1m	0	MA	10+	
					Obs							
Daa	Ulmus	glabra			•	Mechan	iical dama	ge and compaction	on west sic	le		_
Rec.	Channe (n				Dh		C1	-1	Data atia	_	p:-I-	0
Status	Stems (n	-	0	0	-	ological	Structur	aı	Retentio	n 2 <b>1</b>	Risk	
0	290	210	0	0	Ht	ood <b>RPA</b>	Fair RPA		Ht Low	Life	0	
Tree No	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years	s R.
4871A	Elm				9	5.4	91.61	2m,4.5m,4m,2m	E3	М	20+	
					Obs							
	Ulmus	glabra			•	Growing	g through	the stone wall				
Rec.												0
Status	Stems (n	nm)			Physic	logical	Structur	al	Retentio		Risk	
0	450	0	0	0		ood	Fair			116-	0	
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years	s R.
4871B	Elm				9	6.38	127.88	3m,3m,3m,2.5m	W1	M	10+	
					Obs	0.50	127.00	3.11,3.11,2.13.11	***		10	
	Ulmus	glabra				Growing	g up again	st old ruin				
Rec.	Monitor											
Status	Stems (n	nm)			Physic	logical	Structur	al	Retentio	n	Risk	
Medium	400	350	0	0	G	ood	Fair		C	1	Mediur	n
Tues No	C !				Ht	RPA	RPA	C d (NECNA)	Ht Low	Life	Fat Wasan	- 0
Tree No	Species				(m)	(m)	(m2)	<b>Spd (NESW)</b> 4m,4.5m,3.5m,2	Br	Stage	Est. Years	s K.
4872	Elm				13	4.32	58.63	m	E2	М	10+	
					Obs							
	Ulmus	glabra			•	Mechan	ical dama	ge and compaction	on west sid	le		
Rec.	Monitor											
Status	Stems (n	nm)			-	logical	Structur	al	Retentio		Risk	
Medium	360	0	0	0		ood	Fair		Ht Low	Life	Mediur	m
Tree No	Species				Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Br	Stage	Est. Years	s R.
4873	Ash				10	6.32	125.48	3m,5m,3m,1m	0	M	10+	
					Obs			,,,				
	Fraxinus	excelsio	r			Advance	ed stage a	sh dieback, mechan	ical damag	e on west	side	
Rec.	Remove											
Status	Stems (m	nm)			Physic	logical	Structur	al	Retentio	n	Risk	
Medium	250	250	390	0	Р	oor	Poor			J	Mediur	n
Troc No	Smaa!				Ht (m)	RPA	RPA	Sad (NICCIA)	Ht Low	Life	Ect Voc	c P
Tree No Tree li	Species				(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years	s K.
116611	110											
	1 Levi	land cyp			14	7.2	162.86	9m,4m,9m,9m	S1.5	М	20+	

# Obs

Cupressus x leylandii

• six cypress planted for a screen in reasonable condition

Rec.	Crown raise on sou	th side							
Status	Stems (mm)		Physio	logical	Structura	al	Retentio	n	Risk
Medium	600 0 0	0	G	ood	Fair		В	32	Medium
Tree No	Species		Ht (m)	RPA (m)	RPA (m2)	Spd (NESW)	Ht Low Br	Life Stage	Est. Years R.
Tree									
group 1	Willow		10	1.8	10.18	m,m,m,m	0	Υ	40+
			Obs						
	Salix caprea		•	A group	of young	willow trees providi	ng importa	ant ecologi	cal value.
Rec.									0
Status	Stems (mm)		Physio	logical	Structura	al	Retentio	n	Risk
0	150 0 0	0	G	ood	Good		В	32	0
			Ht	RPA	RPA		Ht Low	Life	
Tree No	Species		(m)	(m)	(m2)	Spd (NESW)	Br	Stage	Est. Years R.
Hedge	Whitethorn, ash,								
line 1	sycamore, bramb	le	5	2.16	14.66	2m,2m,2m,3m	0	М	20+
			Obs						
	0		•	A patch	y hedge w	ith gaps in many are	as		
Rec.	Prune to rejuvenate	9							
Status	Stems (mm)		Physio	logical	Structura	al	Retentio	n	Risk
Medium	180 0 0	0	_	air	Fair			31	Medium

All dimensions are in metres unless otherwise indicated and should be considered estimates.

Ht-Height- estimated dimensions

Stem dia-Stem diameter at 1.5m

**RPA-** Root Protection Distance

**Branch spread**- Radial crown spread in metres, measured for each of the four cardinal points of the compass from the centre of the trunk.

Crown clear-height of crown clearance

#### Life stage:

NP Newly planted – a tree within 3 years after planting

YM Young Mature – a tree within its first one third of life expectancy

MA Middle-aged – a tree within its second third of life expectancy

M Mature – a tree in its final one third of life expectancy

OM Over Mature – a tree having reached its maximum life span and is declining in health and size due to old age

V Veteran – a tree that is of interest biologically, aesthetically or culturally because of its age, size and condition

#### **Physiological Condition**

An assessment of the physiological condition (i.e. health/vitality) of the tree categorised into:

GOOD- a tree in a healthy condition with no significant problems

FAIR- a tree generally in good health with some problems that can be remediated

POOR- a tree in poor health with significant problems that can't be remediated

DEAD- a tree without sufficient live material to sustain life

#### Structural Condition

An assessment of the structural/safe condition of the tree categorised into:

GOOD- a tree in a safe condition with no significant defects

FAIR- a tree in a safe condition at present but with defects or with significant defects that can be remediated

POOR- a tree with significant defects that can't be remediated

### **Estimated Remaining Life Contribution**

An estimate of the remaining life contribution in years that the tree or group of trees is expected to have based on species, condition on the site in its current context. The following bands are used:

<10- Tree is dead or dying and unlikely to contribute beyond 10 years

10+- Tree is assessed as being able to contribute to the site for 10+ years

20+- Tree is assessed as being able to contribute to the site for 20+ years

40+-Tree is assessed as being able to contribute to the site for 40+ years

## **Preliminary Management Recommendations,**

These may include further investigations for the presence or extent of decay or climbed inspections, ivy removal or pruning works when access is a non-moveable aspect etc

## **Category of retention**

Quality & Value grade classification according to BS5837:2012

**U** Removal

A Those trees of HIGH value quality to retain

**B** Those trees of MODERATE quality to retain

C Those trees of LOW quality to retain

# 9.0 Preliminary Arboricultural Method Statement

## **Timing of Works**

9.1 Tree protection works will be completed as detailed in the Tree Protection Plan, and this method statement.

- 9.2 The exact commencement date is not known however the timetable provided gives the order that the works need to be implemented to ensure the tree is fully protected.
- 9.3 The following sequences are governed by operational constraints and subject to change. The developers arborist must be noted of any changes to this schedule:
- 9.4 **Pre-development Stage** Pre-commencement site meeting between Local Planning Authority, client and developers architect. This meeting must take place before any development activity begins to confirm the timing and implementation of the agreed Tree Works and installation of Tree protection measures.
- 9.5 Tree protection measures installed around all trees as shown in the Tree Protection Plan and ground protection and no-dig surface to be in place Site to be inspected by the arboriculturalist. When the tree contractor has carried out removal and pruning of trees then the protective fencing will be erected to the measurements of the CEZ on the TCP.
- 9.6 Development Stage This stage is subject to site monitoring visits by the developer's arboriculturalist at intervals as agreed at the pre-commencement site meeting. These visits are to ensure that the agreed protection measures are functional and correctly achieving their purpose.

# **Temporary Barriers**

- 9.7 Construction Exclusion Zones (CEZ) will be created as shown in the attached Tree Protection Plan (TPP)
- 9.8 Temporary barriers will be erected as shown by the green lines in the TPP to form the CEZ. The barriers will be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. The barriers will consist of scaffold poles driven 0.6m into the ground at no more than 3m apart. The poles will be 2m above ground level and will have 3 horizontal poles attached on the uprights at the lower, higher and middle section of the barrier. Welded mesh panels shall infill the barriers and all weather signs will be attached to the barrier stating: Construction Exclusion Zone-No Access

- 9.9 The CEZ will remain <u>sacrosanct</u> during the construction period and will not be taken down or moved without prior approval from the arboriculturist.
- 9.10 Services will be installed as specified in NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees. The services will be placed within the permitted zone.
- 9.11 **PERMITTED ZONE outside of the precautionary zone**. Excavation works may be undertaken within this zone, however caution must be applied and the use of mechanical plant limited. Any exposed roots should be protected.
- 9.12 In considering the location or renewed apparatus in conjunction with a new tree planting scheme early consultation is essential between the relevant professional organizations e.g. local authorities, utility companies and developers. Where works are required for the laying or maintenance of any apparatus within the Prohibited or Precautionary Zones there are various techniques available to minimise damage.

# **Continuous Trench - Hand-dug**

- 9.13 The use of this method must be considered only as a last resort if works are to be undertaken by agreement within the Prohibited Zone. The objective being to retain as many undamaged roots as possible. Hand digging within the Prohibited or Precautionary zones must be undertaken with great care requiring closer supervision than normal operations.
- 9.14 After careful removal of the hard surface material digging must proceed with hand tools. Clumps of roots less than 25mm in diameter (including fibrous roots) should be retained in situ without damage. Throughout the excavation works great care should be taken to protect the bark around the roots. All roots greater than 25mm diameter should be preserved and worked around.
- 9.15 These roots must not be severed without first consulting the owner of the tree or the local authority tree officer / arboriculturist. If after consultation severance is unavoidable, roots must be cut back using a sharp tool to leave the smallest wound.
- 9.16 Backfilling Backfilling should be carefully carried out to avoid damage to roots and excessive compaction of the soil around them. The backfill should where possible include the placement of an inert granular material mixed with top soil or sharp sand around the roots. This should allow the soil to be compacted for resurfacing without damage to the roots securing a local aerated zone enabling the root to survive the long term

# **Site Huts and Temporary Buildings**

9.17 All site huts and temporary buildings will be cited outside the CEZ and situated as shown in the draft tree protection plan.

## 9.18 General Protection Measures

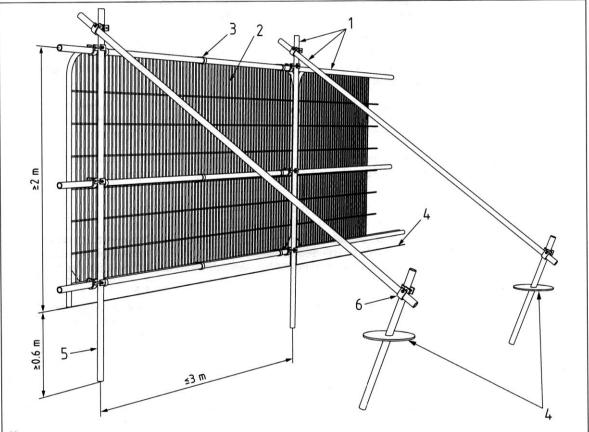
- **9.19** No cement, oil, bitumen or any other products likely to be detrimental to tree growth will be stored within 10m of the trunk of the trees, or materials of any type to be stored within the RPA.
- **9.20** No concrete mixing will be carried out within 10m of the trees.
- **9.21** No fires will be lit within 20m of the trees.
- **9.22** Hydraulic cranes, forklifts, excavators or piling rigs will not be used under and in the immediate vicinity of the crown of the trees.

# **Site Monitoring**

- 9.23 Supervision will be carried out throughout the construction phase by the nominated arborist, who will be responsible for consultation with the local authority and the site manager/foreman. The arborist will also be on site to supervise the no-dig surface.
- 9.24 The arborist will complete regular site visits to check that the protection measures are being carried out. The frequency of the visits will be dictated by the level of activity and degree to which the tree protection measures are being respected. A note of the date of each visit and a summary of the findings will be forwarded to the main contractor.
- 9.25 On completion of the works the trees will be inspected by the arborist to check the condition of the trees and to advise if any remedial work is necessary.

Figure 1

BS 5837 2012: Default specification for protective barrier



## Key

- 1 Standard scaffold poles
- 2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
- 3 Panels secured to uprights and cross-members with wire ties
- 4 Ground level
- 5 Uprights driven into the ground until secure (minimum depth 0.6 m)
- 6 Standard scaffold clamps

Figure 2 BS 5837 2012: Examples of above-ground stabilising systems a) Stabilizer strut with base plate secured with ground pins b) Stabilizer strut mounted on block tray

## 10 REFERENCES

BS:5837:2012 Trees in relation to design, demolition and construction-Recommendations

B.S:3998:2010 Recommendations for Tree Work.

Manual of Wood Decay. K.Weber, C.Mattheck.

Principles of Tree Hazard Assessment and Management.

Diagnosis of Ill-health in trees. Forestry Commission.

Arboricultural Impact Assessment for a proposed development at Prospect, Athenry, Co Galway

The Body Language of Trees. Mattheck, Breleor

Tree Roots In The Built Environment.

Research for Amenity trees The Pruning of Trees Shrubs and Conifers.

Field Guide for Visual Tree Assessment. C. Mattheck