



## ***Tree Management Services***

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**Project Title:** St. Kevin's Hospital Residential Development,  
Shanakiel, Co. Cork

**Report Title:** Arboricultural Impact Assessment and  
Tree Root Protection Plan

**Client:** LAND DEVELOPMENT AGENCY

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Section	Page
1. Introduction:	3
2. The Site and Surrounding Environment:	3-4
3. Statutory Legislation:	4
4. Details of existing Tree Population:	4-5
5. Impact of proposed development:	5-6
6. Tree Protection measures during the proposed development:	6-7
7. Proposed Tree Works:	7
8. Summary:	7-8

Appendix 1: Arboricultural Tree Survey Data Sheets

Appendix 2: Tree Root Protection Areas

Appendix 3: *Default specification for protective barrier - Figure 2.*  
*Examples of above-ground stabilizing systems - Figure 3.*

Appendix 3: *Tree Protection Plan - Sheets 1 and 2.*

## **1. Introduction**

- 1.1 We have been commissioned by Planning Consultants, Tom Philips & Associates to carry out this Arboricultural Impact Assessment and Tree Root Protection Plan for a proposed Residential Development at the former St. Kevin's Hospital, Shanakiel, Co. Cork. This report details the arboricultural implications of the proposed development on the existing tree population on the site.
- 1.2 The Land Development Agency intend to apply to An Bord Pleanála (the Board) for permission for a Strategic Housing Development with a total application site area of c. 5.7 ha, on lands located at the Former St. Kevin's Hospital and Grounds, Shanakiel, Cork (A Protected Structure, 'Our Lady's Hospital' RPS Ref. PS620). The development, with a total gross floor area of c 24,344 sq m, will provide 266 no. residential units, a crèche and office enterprise centre. The development will consist of 46 no. town houses (32 no. 3 bedroom units and 14 no. 4 bedroom units) arranged in 11 no. two storey blocks; 54 no. ground floor 2 bedroom duplex apartments and 36 no. 3 bedroom and 18 no. 4 bedroom duplex townhouses above arranged in 7 no. three storey blocks; 52 no. walk-up apartments (11 no. 1 bedroom apartments and 41 no. 2 bedroom apartments) arranged in 3 no. four storey blocks. The development will also include the conversion and renovation of the former St. Kevin's Hospital building to provide 60 no. apartments (26 no. 1 bedroom and 34 no. 2 bedroom apartments) and a 440 sq m crèche at ground floor level, with ancillary outdoor play area; The conversion of the 630 sq m former chapel building to provide a new Office Enterprise Centre. The proposed development will include 241 no. surface car parking spaces and 563 no. bicycle parking spaces.

The development will also provide for the demolition of 2,901 sq m of former hospital buildings and associated outbuildings (including the demolition of the 1,129 sq m former two storey St. Dymphna's Hospital block; 672 sqm of the rear toilet blocks and stair cores of the St. Kevin's Hospital building; the 220 sq m two storey former Doctors House; the 50 sq m one storey hospital mortuary building; 480 sq m of shed buildings to the rear of the Chapel; the 151 m retaining wall to the immediate south of the St. Kevin's Hospital building and the partial demolition of the existing 350 sq m link corridor structure.) The development will also include provision of a play area to the immediate east of St. Kevin's Hospital; private, communal and public open space; internal roads and pathways; pedestrian access points; hard and soft landscaping; boundary treatments including the repair of some existing boundary walls; the provision of new surface water and foul drainage pipes and any associated pipe diversion works; new retaining walls; a new internal access roads; changes in level; services provision and related pipework; electric vehicle charging points; attenuation tanks; SUDS; signage; the upgrading of the existing access from Beechtree Avenue; public lighting and all site development and excavation works above and below ground.

- 1.3 A Tree Survey was carried out as a visual ground assessment by a qualified and certified arborist from 12-15th. November 2019 and updated on 21st. February 2020. The survey was carried out to the ISA's *Best Management Practices –Level 2 Assessment* and the *BS 5837:2012 Trees in relation to Design, Demolition and Construction – Recommendations*. The Tree Survey recorded information about the trees on the site, and trees were assessed objectively and without reference to site layout proposals.
- 1.4 Trees were plotted on a topographical survey drawing and a Tree Survey drawing Ref: 20.02.SKH.01A was prepared. This Arboricultural Impact Assessment Report should be read in conjunction with the Tree Survey Report Ref: 19.11.SKH.01 and the attached Tree Root Protection Plan Ref: 20.04.SKH.02A -Sheets 1 and 2.

## **2 The Site and surrounding environment.**

- 2.1 The site is located at the former Institutional lands at St. Kevin's Hospital, Shanakiel, Co. Cork. See Photo 1 below:



**Photo 1:** The Site at St. Kevin's Hospital, Shanakiel, Co. Cork. © Google Maps

2.2 The site is enclosed by high chain-link fencing along the northern boundary, by stone walls along the eastern and southern boundaries and by stone walls and open woodland along the western boundary. The site, is currently derelict, laid out in buildings and open spaces, part of the grounds of the former Hospital.

### **3. Statutory Legislation.**

3.1 The Forestry Act 2014 and accompanying Forestry Regulations 2017 sets out the legislation governing the felling of trees, the licenses required and offences and penalties for breaches of the legislation. It is important to note that certain tree felling activities are exempted from the need to obtain a felling license. Trees on this site may be defined as:-

3.1.2 Under clause 2.3 of the document entitled Felling and Reforestation Policy dated May 2017, these are trees defined as:-

*'A tree in an urban area. (An urban area is an area that comprised a city, town or borough specified in Part 2 of Schedule 5 of the Local Government Act 2001, before the enactment of the Local Government Reform Act 2014.*

3.2 There are also scenarios where a felling license is not required including: *'A tree outside a forest, the removal of which is specified in a grant of planning permission'*

3.3 In relation to the felling of trees, refer to the Felling and Reforestation Policy document dated May 2017 issued by the Department of Agriculture, Food and The Marine dated May 2017.

### **4. Details of existing Tree Population:**

4.1 A total of 165nr. trees, comprising of *Fraxinus excelsior* (Ash), *Acer pseudoplatanus* (Sycamore), *Quercus petraea* (Oak), *Cotoneaster lacteus* (Cotoneaster), *Pinus sylvestris* (Scots Pine), *Crataegus monogyna* (Whitethorn), *Salix spp.* (Willow), and *Cupressus lawsoniana* (Lawson Cyprus ) were surveyed within the site boundaries. The trees are growing either as solitary specimens around or within the site boundaries and within a scrub woodland area on sloping ground close to the northern boundary. Refer to Appendix 1 - Arboricultural Data Sheets from the Tree Survey Report dated 21st. February 2020.

- 4.2 The trees surveyed are mainly indigenous (native), and occasional non-native species and vary in age from young (15 years) to over mature (>150 years).
- 4.3 The trees growing within the site boundaries were planted as part of the original landscape scheme of the site or have occurred naturally through self-seeding.
- 4.4 There are no Category A trees on the site and defined in BS 5837:2012 as '*Trees of high quality with an estimated remaining life expectancy of at least 40 years*'.
- 4.5 There are 19nr. Category B trees on the site and defined in BS 5837:2012 as '*Trees of moderate quality with an estimated remaining life expectancy of at least 20 years*'.
- 4.6 The majority of the trees are generally in fair to poor condition and fall into the low or Category C trees and defined in BS5837: 2012 as '*Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm*'.
- 4.7 There are 29nr. Category U trees on the site and defined in BS 5837:2012 as '*Those in such condition that they cannot be realistically be retained as living trees in the context of the current land use for longer than 10 years*'. Such trees should be removed for reasons of sound arboricultural management regardless of any proposals for the site.
- 4.8 There are no hedgerows recorded within the site.
- 4.9 All trees proposed for retention shall be reassessed during and upon completion of the construction phases and may require remedial works to improve form and reduce risk. Trees found to be a hazard because of reduced structural stability, malformed root structures, or increased exposure after site clearing, should be removed. Finished ground levels may have a major bearing on the retention of trees.
- 4.10 BS 5837: 2012 determines that trees should be categorized using the criteria shown in Table 1.

Retention Category	Description	Number of trees	Number of Hedgerows
<b>Category A</b>	Trees of high quality with an estimated remaining life expectancy of at least 40 years.	0	0
<b>Category B</b>	Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	19	0
<b>Category C</b>	Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	117	0
<b>Category U</b>	Those in such condition that they cannot be realistically be retained as living trees in the context of the current land use for longer than 10 years.	29	0

**Table 1:** BS 5837: 2012 Tree and Hedgerow Categorization

## 5. Impact of the Proposed Development:

Table 2 lists the trees x category that are impacted due to the proposed development and those trees that may be retained. Trees in poor condition and require removal for reasons of sound arboricultural management are also listed. For locations refer to Tree Survey drawing - Ref: 20.02.SKH.01A Sheets 1 and 2.

Trees within site boundaries	TREE CATEGORISATION				Totals
	A	B	C	U	
Trees proposed for retention.	0	Tree nos. 1,75,76,86,101	Tree nos. 46,52,57,59,60,71,74,77,79,80, 82,83,84,91,92,93,94,95(15),96, 97,98,99,100,102,109(8),2998, 2999,3000	0	54
Trees proposed for removal to facilitate the development	0	4,8,9,10,26,33,35,36,38,61,62,63,65,68,	Tree Nos. 3,6,7,11,12,13,15,16,17,19,20, 21,22,23,24,25,27,28,29,30,31, 32,34,40,41,42,64,66,67,69,70, 72,73,81,87,88(30),89,105,108	0	82
Trees to be removed for reasons of sound arboricultural management	0	0	0	Tree nos. 2,5,14,18,37,39,43, 44,45,47,48,49,50, 51,53,54,55,56(4), 58,78,85,90,103, 104,106,107	29

**Table 2:** Summary of Impact of the Proposed Development on the Tree Population.

5.1 Within the site boundaries, there are 82nr. trees proposed for removal to facilitate the proposed development.

The majority of trees proposed for removal are low Category C trees. It should be noted that, based on the current proposed site layout, tree nos. 0063, 0064, 0065 - all the mature and dominant Scots Pine trees are shown for removal. It may be possible to retain tree no. 0065 - a Scots Pine close to a proposed access road. Ongoing monitoring and assessment of the tree will be required during the construction phase, during which a final decision can be made.

5.2 It is proposed to retain 54nr. trees and these trees are mainly concentrated in the semi-natural scrub woodland close to the northern boundary. In addition it is proposed to retain occasional isolated trees of mainly Sycamore and 2 x Cotoneaster trees along the southern boundary.

5.3 Fencing to protect the retained trees shall be erected prior to the commencement of any works. Refer to The Tree Protection Plan drawing Ref. 20.04.SKH.02A sheets 1 and 2.

## **6. Tree Protection measures during the proposed development:**

6.1 All trees proposed for retention shall be protected during the demolition and construction phase of the proposed development so as to minimize damage to roots, stems or overhanging limbs. Refer to the attached Tree Root Protection Plan Ref: 20.04.SKH.02A. The guidelines as outlined in BS5837: 2012 shall be implemented in order to minimize or prevent damage to the trees during construction. These guidelines are copyrighted and cannot be reproduced for inclusion in this report. Refer to paragraph 4.6 in relation to calculation of Root Protection Areas (RPA). Refer also to Table 3: Tree Root Protection Zones - Appendix 2 in this report.

6.2 For single stemmed trees, the RPA is calculated as an area equivalent to a circle with a radius 12 times the stem diameter. In general the ability of the trees to tolerate disturbance within the RPA depends on prevailing site conditions and on individual circumstances. It is generally recommended that where demolition and construction occurs within the RPA then precautions should be taken to: -

- Prevent physical damage to roots during demolition and construction
- Make provision for oxygen and water to reach the roots
- Allow for the future growth of the root system
- Preserve the soil structure at a suitable bulk density for root growth and function.

- 6.3 Retained trees shall be protected by protective barriers during the course of site development works. Protective fencing alignment is shown on the Tree Protection Plan drawing ref: *20.04.SKH.02A Sheets 1 and 2*. Refer also to BS 5837:2012 paragraph 6.2 - Barriers and Ground Protection. Great care shall be exercised during the demolition and construction phases to protect all trees designated for retention. Damage to root or stem structures should be avoided. Vertical barriers will be erected and ground protection installed before any materials or machinery is brought onto the site and before any demolition, development or stripping of soil or hard surfaces commences.
- 6.4 Tree barriers to protect the trees shall consist of a scaffold framework. The default specification should consist of a scaffold framework, well braced to resist impacts - See Appendix 3. Refer also to BS 5837:2012 – Figure 2 and Figure 3 and clauses 6.2.2.2 and 6.2.2.3. To ensure the protected barriers are recognized and respected, clear signage shall be affixed to the barriers in unrestricted easily viewed locations with words such as 'CONSTRUCTION EXCLUSION ZONE - NO ACCESS'.
- 6.5 All protective barriers shall remain in place until completion of all construction works. Any breach of the barrier shall be reported to the consulting arborist.
- 6.6 Where movements are to occur within the RPA, then the installation of ground protection measures shall be carried out. New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.
- 6.7 Topsoil or other materials should not be stacked on or close to the main tree trunks.
- 6.8 Soil compaction shall be avoided. Compaction is a common cause of post-construction tree loss on development sites. The passage of vehicles or the storage of top-soil within root protection zones shall be avoided.
- 6.9 Storage areas for any containers, toilets, fuels, liquids, gas tanks, shall be located to the outer edge of the Root Protection Areas due to the risk of ground compaction or soil contamination.
- 6.10 A professional Tree Surgery Company shall be engaged where necessary to prune back any overhanging limbs where required and to the required height clearance.
- 6.11 Refer to other relevant sections of BS 5837:2012 most notably the following:-
- Paragraph 7.3 - Tree Protection during demolition.
  - Paragraph 7.4 - Permanent hard surfacing within the RPA.
  - Paragraph 7.5 - Special engineering for foundations within the RPA.
  - Paragraph 7.7 - Underground and above ground utility apparatus.

## **7. Proposed Tree Works:**

- 7.1 Any proposed tree work should be carried out to BS 3998:2010 Tree Work - Recommendations.
- 7.2 Tree works shall only be carried out by a competent, professional and fully insured, trained and certified Tree Surgery firm. During any felling works, care shall be taken to protect surrounding healthy trees, buildings and other structures. Strict safety precautions shall be put in place to safeguard site occupants, visitors and members of the general public. If possible, felling work should not be carried out during the bird-nesting season. While tree felling and removal works are being carried out, appropriate measures should be put in place to prevent access from unauthorized persons to the work sites.

## **8. Summary:**

- 8.1 A total of 165nr. trees, and one section of small woodland was identified and surveyed within the site boundaries.
- 8.2 There are no Category 'A' or high value trees on the site.
- 8.3 The majority of the trees are in fair to poor condition and categorized as low value grade 'C' or low value trees.

- 8.4 There are fifty-four trees proposed for retention within the site. These include mainly scrub or young woodland trees growing on sloping ground close to the northern boundary.
- 8.5 A total of eighty-two trees are proposed for removal to facilitate the development. These include trees growing adjacent to the existing site entrance road, the over mature Ash trees growing along the northern perimeter and isolated trees around the site. One Scots Pine tree, no. 0065, although shown for removal, will be assessed and monitored during the construction phase.
- 8.6 A total of twenty-nine trees are in poor condition and are proposed for removal for reasons of sound arboricultural management.
- 8.7 In conclusion, the proposed site layout has a moderate impact on the existing tree population on the site and seeks to retain and incorporate the small woodland and isolated individual trees within the proposed new development. The protection and preservation of trees and woodland will enhance the proposed development, will help maintain the existing biodiversity and will help create an attractive recreational environment within the proposed development.



Appendix 1:  
  
ARBORICULTURAL TREE SURVEY DATA SHEETS

Tree No.	Species Common Name See Appendix 3 for Scientific Name	Ht. Ms. m.	Stem Diameter cms	Branch Spread m.	Existing Height above ground level of:		Life Stage Y - Young M - Middle-aged MA - Mature OM - Over-mature V - Veteran	Condition General Observations and preliminary management recommendations.	Estimated remaining contribution in years	Retention Category A- High B- Moderate C- Low U- Fell
					1st. signif. branch and dir. of growth m.	Canopy m.				
0001	Whitethorn	5.0	22 7	.5N 1S .5E 1W	2W	2.0	MA	Good condition. Close to boundary wall. Leaning to west. 2 x stems from base. <b>Action:</b> NAR	40+	B
0002	Common Ash	19.0	70	5N 2S 4E 0W	3N	11.0	MA	Poor condition. Slight lean to NE. Ivy growth to 10m. Large open cavity at base to 1m. on south side leading to advanced heartwood decay. Structurally weak main trunk and prone to stem breakage. Unbalanced crown. <b>Action:</b> Fell.	<10	U
0003	Common Ash	18.0	42	0N 3S 0E 1W	4SW	13.0	MA	Fair condition. Basal sucker growth. Light ivy growth to 6m. Suppressed crown on east side. <b>Action:</b> Prune crown to improve balance and shape. Clean the crown.	20+	C
0004	Common Oak	16.0	86	2N 0S 1E 4W	1W	10.0	MA	Fair condition. Pruned in past. Unbalanced crown. Broken dead limbs on southern side. More crown weight over boundary fence. Ivy growth to 10m. <b>Action:</b> Sever ivy growth at base. Prune back limbs on northern side. Remove any dead stems to 3m. Clean the crown.	40+	B
0005	Common Ash	16.0	72	0N 4S 3E 1W	4S	8.0	MA	Poor condition. Growing on sloping ground. Leaning to southeast. More crown weight to south. Major stem fracture point at 2m. north side. Structurally weak and prone to stem breakage. Broken stems in crown. <b>Action:</b> Fell the tree.	<10	U

0006	Sycamore	10.0	35,22 46,34 27,38	2N 4S 1E 3W	1.5S	5.0	MA	Poor condition. Close to boundary fence. Multiple stems from base. Decay and cavities along stems. Signs of decline in crown. Pruned in past. <b>Action:</b> Remove all dead and decaying stems. Prune crown limbs back to live foliage points.	40+	C
0007	Common Ash	11.0	43	3N 2S 2E 2W	2NW	4.0	MA	Fair condition. Forked at 1m. Compression fork. Weak stem union. Minor cavity at 1.5m. east side. <b>Action:</b> NAR	40+	C
0008	Common Ash	15.0	75,50 37	5N 10S 8E 5W	3S	5.0	MA	Fair condition. Large multi-stemmed ash. Close to kerb and access road. Forked from base. Ivy growth to 12m. More crown weight to south over field. Girdling roots at base on northern side. Pruned in past on south side. Deadwood in crown. Broken stem at 5m., west side. <b>Action:</b> Prune crown to improve balance and shape by pruning back limbs on south side and lightly prune back limbs over road. Reduce most westerly stem in height by 10%. Sever ivy growth at base. Clean the crown.	40+	B
0009	Sycamore	12.0	26	1N 2S .5E .5W	5W	5.0	MA	Fair condition. Growing on sloping ground. Straight stem to about 6m. Minor scaring along stem on west side. Light crown. <b>Action:</b> NAR	40+	B
0010	Sycamore	12.0	33	1N .5S 1E 1W	4N	6.0	MA	Fair condition. Growing on sloping ground. Forked from 2m. Asymmetrical crown with more end weight to north. <b>Action:</b> NAR	40+	B
0011	Sycamore	13.0	37	2N .5S .5E 2W	4W	5.0	MA	Fair condition. Toadstools at base. Could be signs of root disease or stem decay. Clear stem to 4m. Asymmetrical crown with more end weight to north over access road. <b>Action:</b> Lightly prune back limbs over access road. Clean the crown.	40+	C
0012	Common Ash	6.0	19	1N .5S .5E .5W	3N	3.0	M	Poor condition. On raised mound. Forked from 1m. Broken roots on east side. <b>Action:</b> NAR	20+	C

0013	Sycamore	8.0	41	1N 0S 2E 1W	2W	4.0	MA	Poor condition. Slight lean to northwest. On raised mound. Broken anchor roots on east side. Light ivy growth ton 1m. Unbalanced crown. <b>Action:</b> Prune back limbs over road.	20+	C
0014	Sycamore	14.0	73	4N 3S 3E 4W	4E	6.0	MA	Poor condition. On raised mound. Open cavity leading to heartwood decay at 1m. SW side. Structurally weak. Dieback and decline in crown. Poor extension growth. Lacks vigour. Cabinet box in crown. <b>Action:</b> Fell.	40+	U
0015	Sycamore	10.0	28,14 13,15, 8,5	1N 0S 1E .5W	2E	7.0	MA	Poor condition. Multiple stems from base. Ivy growth to 6m. Slight lean to north. <b>Action:</b> Sever ivy growth at base. Remove broken central stems. Remove any weak and deformed stems. Sever ivy growth at base.	40+	C
0016	Sycamore	14.0	90	10N 1S 7E 4W	2S	7.0	MA	Poor condition. Close to tree no 17. Restricted rooting on west side. Cavity at 1m. NW side. Open wound. Over-extended stem to north. Burrs along stems. Deadwood and decline in crown. Light ivy growth attached. <b>Action:</b> Carry out Level 3 Picus test to determine extent of stem decay. Prune back on northern and western sides to improve balance and shape. Clean the crown.	40+	C
0017	Sycamore	12.0	55	0N 5S 5E 0W	3E	5.0	MA	Poor condition. On sloping ground. Heavy ivy growth to 10m. Stem area not assessed. Unbalanced crown. More end weight to south. <b>Action:</b> Sever ivy growth at base and reassess tree after ivy has died off. Prune crown to improve balance and shape and clean the crown.	40+	C
0018	Sycamore	14.0	40	0N S4 0E 2W	2S	7.0	MA	Poor condition. Scaring At base on northern side. Open to decay. Forked at 2m. Leaning to south. <b>Action:</b> Fell.	10+	U

0019	Sycamore	14.0	48	3N 0S 0E 4W	3W	7.0	MA	Poor condition. Close to tree no. 20. Leaning to west. Could be prone to wind throw. Unbalanced crown. Broken stem at base on south side. Wire attached on main trunk on north side. <b>Action:</b> Remove minor suckers on main stem to 2m. Prune crown on western and northwestern side to improve balance and shape. Clean the crown.	40+	C
0020	Sycamore	15.0	47	4N 3S 1E 1W	3N	8.0	MA	Poor condition. On edge of bank. Major stem fracture at base on south side. Exposed heartwood. Scaring along trunk. Unbalanced crown. Suppressed on east side. Bow-shaped stem. <b>Action:</b> Remove basal suckers. Clean the crown. Lightly prune back limb on northern side.	40+	C
0021	Common Ash	20.0	64 56	4N 4S 9E 2W	6N	9.0	MA	Fair condition. Forked from base x 2 stems. Heavy leaning stem to SE. Minor deadwood in crown. Broken limbs in crown. Wire mesh attached to trunk. <b>Action:</b> Reduce most SE stem by 20%. Sever ivy growth at base. Clean the crown.	40+	C
0022	Sycamore	15.0	46	2N 2S 2E 1W	5N	8.0	MA	Poor condition. Wire mesh attached to main trunk. Heavy ivy growth to 7m. Light crown. Poor extension growth. Lacks vigour. Stem not assessed. Stem removed on SE side. <b>Action:</b> Sever ivy growth at base and reassess tree after ivy has died off. Prune crown to invigorate new growth. Clean then crown.	40+	C
0023	Sycamore	15.0	52	1N 4S 1E 0W	4S	9.0	MA	Poor condition. On edge of bank. Minor basal sucker growth. Stem removed in past on north side. Major cavity on SW side leading to deep heartwood decay. <b>Action:</b> Carry out Level 3 Picus test of main trunk to determine extent of heartwood decay. Sever ivy growth at base. Prune back limbs on southern side. Clean the crown.	40+	C

0024	Sycamore	14.0	56	0N 1S 1E 0W	4N	10.0	MA	Poor condition. On edge of sloping ground. Forked from 2m. Weak forking point. Could be prone to stem splitting. Broken stem at 4m. on south side. Ivy growth to 13m. Lacks vigour. Broken limb at 4m. NE side. <b>Action:</b> Sever ivy growth at base. Prune back limbs on northern and eastern sides. Clean the crown.	40+	C
0025	Sycamore	13.5	60	2N 4S 4E 0W	3S	8.0	MA	Poor condition. Leaning to SE. Heavy ivy growth to 6m. Unbalanced crown. Suppressed on west side. Scaring at base east side. <b>Action:</b> Sever ivy growth at base and reassess tree after ivy has died off. Prune crown to improve balance and shape. Clean the crown.	40+	C
0026	Sycamore	13.0	33	1N 1S .5E 2W	4W	5.0	MA	Fair condition. Broken stem at 2m. west side. Ivy growth to 6m. Clear stem to 4m. Well-balanced crown. <b>Action:</b> Sever ivy growth at base.	40+	B
0027	Sycamore	12.0	45	0N 2S 1E 2W	4W	6.0	MA	Fair condition. Forked from 2m. X 3 stems. Ivy growth to 5m. <b>Action:</b> Sever ivy growth at base.	40+	C
0028	Sycamore	14.0	40	1N 1S 1E 2W	2E	6.0	MA	Fair condition. Straight stem. Heavy ivy growth to 6m. Light crown. <b>Action:</b> Sever ivy growth at base and reassess tree after ivy has died off.	40+	C
0029	Sycamore	12.0	34	0N 1S 2E 0W	4W	8.0	MA	Poor condition. Slight lean to east. Heavy ivy growth to 6m. <b>Action:</b> Sever ivy growth at base and reassess tree after ivy has died off. Prune back limbs in crown on east side.	40+	C
0030	Sycamore	14.0	46	1N 1S 1E 2W	4W	6.0	MA	Fair condition. Heavy ivy growth to 8m. Light sucker growth along main trunk to 4m. Well-balanced crown. <b>Action:</b> Sever ivy growth at base and reassess tree after ivy has died off. Crown raise to 4m.	40+	C

0031	Sycamore	12.0	27 23 29	2N 1S 2E 2W	3NW	4.0	MA	Fair condition. Forked from .5m. Small cavity at .5m. west side. Light ivy growth to 4m. Well-balanced crown. <b>Action:</b> Remove suckers on stem east side. Sever ivy growth at base.	40+	C
0032	Sycamore	11.0	35 26	2N 1S 1E 1W	2N	3.0	MA	Poor condition. Forked from .25m. and 1m. Weak stem unions. Early compression fork. Included bark. Weak stem unions. Pruned in past on east side. <b>Action:</b> Prune back limbs over access road. Consider removing tree.	40+	C
0033	Sycamore	11.0	62	2N 1S 3E 2W	2E	4.0	MA	Fair condition. Heavily pruned in past to 1m. Forked from 2m. Light ivy growth to 8m. Well-balanced crown. <b>Action:</b> Crown raise to 2m. Sever light ivy growth. Clean the crown.	40+	B
0034	Sycamore	10.0	36	1N 2S 1E 2W	2N	3.0	MA	Poor condition. Bow-shaped main stem. Clear stem to 2m. Well-balanced crown. Wire attached at base. <b>Action:</b> Remove minor basal sucker growth. Clean the crown.	40+	C
0035	Apple	6.0	39	3N 2S 3E 2W	2E	4.0	MA	Poor condition. Pruned in past on southern and eastern sides. Wide-spreading crown. Forked from 1.5m. Deadwood in crown. <b>Action:</b> Prune to invigorate new growth and to remove all deadwood.	40+	B
0036	Sycamore	12.0	27	1N 1S 1E 2W	3N	4.0	MA	Fair condition. Bow-shaped stem. Light basal sucker growth. Clear stem to 4m. Well-balanced crown. <b>Action:</b> Remove basal sucker growth.	40+	B
0037	Sycamore	14.0	32,15 50,26 21	4N 2S 2E 2W	2S	5.0	MA	Poor condition. Close to boundary wall (1m.). Multiple stems from base. Basal sucker growth. Wide-spreading crown. Not for long-term retention. <b>Action:</b> Consider removing tree.	20+	U

0038	Sycamore	15.0	47	5N 3S 3E 3W	2N	5.0	MA	Good condition. Vine and ivy growth attached. Clear stem to 2m. Ivy growth to 10m. Wide-spreading crown. <b>Action:</b> Sever light ivy growth at base. Clean the crown.	40+	B
0039	Sycamore	14.0	12,60 47,34	5N 4S 3E 2W	3E	5.0	MA	Poor condition. Close to boundary wall. Poor rooting capacity. Forked from base. Ingress of water at stem unions. Prone to stem splitting. Over-extended limbs over wall to east. Wide-spreading crown. Not for long-term retention. Minor deadwood in crown. <b>Action:</b> Consider removing tree.	20+	U
0040	Apple	7.0	26	3N 1S 1E 2W	3E	4.0	OM	Poor condition. Signs of decline. Pruned in past. Deadwood in crown. <b>Action:</b> Remove dead stump on east side. Prune to invigorate new growth and to remove all deadwood.	20+	C
0041	Apple	6.0	22	2N 1S 2E 0W	2E	4.0	OM	Poor condition. Signs of decline. Pruned in past. Deadwood in crown. Cavity at base at .5m. Leaning to NE. <b>Action:</b> Prune to invigorate new growth and to remove all deadwood.	20+	C
0042	Sycamore	9.0	32	1N 1S 2E 1W	3NE	4.0	MA	Fair condition. Bows-shaped stem. Clear stem to 3m. On edge of drain. Scaring at base on east side. Well-balanced crown. <b>Action:</b> Sever light ivy growth at base.	40+	C
0043	Sycamore	10.0	34	0N 3S 2E 3W	4S	4.0	MA	Poor condition. Close to boundary wall. Crooked main stem. Limbs leaning on wall. Could cause structural damage to wall. Three stems from 2m. <b>Action:</b> Fell.	20+	U
0044	Sycamore	8.0	20,31	0N 4S 2E 3W	4S	5.0	MA	Poor condition. Close to boundary wall. Limbs leaning on top of wall. Could cause structural damage to wall. Forked from base. Over-extended limbs to south. Ivy growth to 4m. <b>Action:</b> Fell.	20+	U



0045	Sycamore	10.0	42	2N 4S 3E 2W	2E	5.0	MA	Fair condition. Close to wall. Could cause structural damage to wall in time to come. No growing space for future development. Branched from 1m. east side. Fused stems against wall <b>Action:</b> Crown raise to 4m. Clean the crown. Or Consider felling tree.	40+	U
0046	Whitethorn	5.0	14,8 7	1N 0S .5E 1W	2W	2.0	MA	Fair condition. X 3 stems. Forked from base. Close to boundary wall. Ivy growth attached to trunks. <b>Action:</b> Sever ivy growth at base.	40+	C
0047	Sycamore	13.0	52,35 12	2N 4S 2E 5W	1W	4.0	MA	Poor condition. Over-extended stem to south. Close to wall. Decay on northeastern side. Wide-spreading crown. Structurally weak. <b>Action:</b> Fell.	<10	U
0048	Sycamore	13.0	37	0N 1S 2E 2W	3W	3.0	MA	Poor condition. Extensive decay to 3m. on main trunk. Open wound. Structurally weak main trunk. <b>Action:</b> Fell.	<10	U
0049	Sycamore	13.0	34	0N 0S 3E 3W	1W	5.0	MA	Poor condition. Close to tree no. 50. Close to boundary wall. No room for long term development. Could cause damage to wall in time to come. Unbalanced crown. Ivy growth to 9m. <b>Action:</b> Fell.	20+	U
0050	Sycamore	14.0	23	0N 0S 0E 2W	6W	10.0	MA	Fair condition. Close to tree no. 49 and 51. Close to boundary wall. No room for long term development. Could cause damage to wall in time to come. Crooked stem. Light crown. <b>Action:</b> Fell.	20+	U
0051	Sycamore	14.0	28	0N 0S 4E 0W	4E	9.0	MA	Fair condition. Close to tree no. 50. Close to boundary wall. No room for long-term development. Could cause damage to wall in time to come. Unbalanced crown. More crown weight to SE. Ivy growth to 8m. <b>Action:</b> Fell.	20+	U

0052	Sycamore	14.5	34	0N 1S 0E 2W	5W	7.0	MA	Fair condition. Heavy ivy growth to 8m. Unbalanced crown. Wall at SE side at 1m. <b>Action:</b> Sever ivy growth at base. Prune crown to improve balanced and shape. Clean the crown.	40+	C
0053	Sycamore	13.5	25	0N 0S 3E 0W	3E	---	MA	Poor condition. Adjacent to wall. Leaning against wall. Heavy ivy growth to 8m. Crown absent. <b>Action:</b> Fell.	20+	U
0054	Sycamore	14.5	45	2N 0S 3E 0W	4NE	10.0	MA	Poor condition. Forked from 1m. Close to wall. Developing weak stem union. Will become problematic in time to come. Ivy growth to 9m. Unbalanced crown. <b>Action:</b> Fell.	20+	U
0055	Sycamore	15.0	18	1N 0S 2E 0W	8E	8.0	MA	Poor condition. Adjacent to wall. Clear stem to 6m. Unbalanced crown. More end weight to south and southeast. Will become problematic in time to come. <b>Action:</b> Fell.	20+	U
0056	Elm X 4 trees	10.0	16-Avg.	---	---	---	MA	Poor condition. In advanced state of decline. Dead and dying trees. Infected by Dutch Elm disease. <b>Action:</b> Fell all four trees.	<10	U
0057	Sycamore	14.0	22	1N 1S 0E 0W	2E	4.0	MA	Fair condition. Close to wall on southern side. Clear stem to 3m. Well-balanced crown. Will become problematic in time to come. <b>Action:</b> NAR	20+	C
0058	Sycamore	15.0	37,54 28,50 45,31 28,32	10N 5S 6E 3W	4E	6.0	MA	Fair condition. Large multi-stemmed tree close to boundary wall on east side. Will become problematic and could cause damage to wall in time to come. Multiple stems from base. Basal sucker growth. Ivy growth to 8m. Weak stem unions. Wide-spreading crown. <b>Action:</b> Remove any leaning and suppressed stems and thin out to achieve well-balanced tree. Prune crown to improve shape Or Fell whole tree.	20+	U

0059	Sycamore	15.0	20,18 41,42 32,21 35,75 17,40 19,36 34,37 17	7N 10S 8E 5W	1S	4.0	MA	<p>Poor condition. Decayed central stem. Open cavity on west side to 4m. Prone to stem failure. Multiple stems from base. Ivy growth to 8m. Wide-spreading crown. Weak stem unions. Deadwood in crown.</p> <p><b>Action:</b> Remove large central stem with decay. Remove any leaning and suppressed stems and thin out to achieve well-balanced tree. Sever ivy growth at base. Reduce retained stems in height by 20%. Clean the crown.</p>	40+	C
0060	Sycamore	19.0	49	3N 1S 4E 0W	2N	6.0	MA	<p>Fair condition. Heavy ivy growth to 13m. Suppressed crown on west side.</p> <p><b>Action:</b> Sever ivy growth and reassess tree after ivy has died off. Prune back limbs on north and northeast side. Consider height reduction of 20%. Clean the crown.</p>	40+	C
0061	Sycamore	12.0	32,48	4N 3S 3E 3W	1N	2.0	MA	<p>Good condition. Basal sucker growth. Forked at 1m. resulting in 4 stems. Nails and timber attached to trunk. Well-balanced crown.</p> <p><b>Action:</b> Remove nails and timber from stem. Cut basal sucker growth. Clean the crown.</p>	40+	B
0062	Common Ash	14.0	90E	9N 6S 6E 4W	2E	4.0	MA	<p>Fair condition. Growing on raised mound. Close to building to west. Exposed anchor roots. Limited rooting capacity. Could be prone to wind throw. Straight stem to 2m. Storm damaged limbs at 3m. west side. Wide-spreading crown. Ivy growth to 7m. Minor deadwood in crown.</p> <p><b>Action:</b> Cut minor basal sucker growth. Sever ivy growth at base. Prune crown to reduce lateral spread and improve balance and shape. Clean the crown. Remove all storm-damaged limbs.</p>	40+	B

0063	Scots Pine	12.0	50E	1N 0S 2E 1W	10E	11.0	MA	Fair condition. On sloping ground. Slight lean to north. Heavy ivy growth attached to tip. Exposed to SW winds. Stem area not assessed. Asymmetrical crown. Suppressed on southern side. Dead limb hanging from crown on NW side at 10m. <b>Action:</b> Sever ivy growth at base and reassess tree after ivy has died off. Remove dead hanging limb. Clean the crown.	40+	B
0064	Scots Pine	9.0	55	0N 3S 1E 2W	4SW	4.0	MA	Fair condition. Leaning to west. On sloping ground. Heavy ivy growth to 5m. Crooked stem. Dieback in crown on northern side. Light asymmetrical crown. 2 x dead limbs at 7m. west side. <b>Action:</b> Sever ivy growth at base. Clean the crown removing all dead stems.	40+	C
0065	Scots Pine	11.0	70	1N 1S 3E 1W	4E	4.0	MA	Good condition. On sloping ground. Slight lean to east. Forked from 3m. Deadwood throughout crown. Well-balanced crown. Restricted rooting on west side. <b>Action:</b> Clean the crown.	40+	B
0066	Sycamore	14.0	44,36 35	0N 3S 0E 2W	2S	4.0	MA	Fair condition. On sloping ground. Forked from base x 3 stems. Light basal sucker growth. Could be prone to stem splitting. Minor storm damage in crown. Broken stem at 2m. south side. Suppressed crown on northern side. Dead central stems. <b>Action:</b> Cut basal sucker growth. Remove dead limbs on southern side. Prune crown to improve balanced and shape. Clean the crown.	40+	C
0067	Sycamore	13.0	31,30 16,34 18,32	2N 2S 3E 2W	3E	5.0	MA	Poor condition. Fused stems. Included bark. Could be prone to stem splitting. Minor storm damage in crown. Slightly suppressed crown on west side. Light basal sucker growth. <b>Action:</b> Cut basal sucker growth. Remove all dead stems. Prune crown to improve balance and shape. Clean the crown.	40+	C

0068	Whitethorn	9.0	38	1N 1S 1E 1W	2SE	4.0	MA	Good condition. Straight stem. Light ivy growth to tip. Well-balanced crown. <b>Action:</b> Sever ivy growth at base.	40+	B
0069	Common Ash	9.0	28	0N 1S .5E 1W	3S	4.0	MA	Fair condition. Cut stem on northern side. Basal suckers from old pruning wound. Slight lean ton south. Forked from 2m. Slightly unbalanced crown. <b>Action:</b> Lightly prune crown to improve balance and shape.	40+	C
0070	Sycamore	14.5	40,30 28,26 12,32 35,36 38	4N 4S 4E 3W	2SE	3.0	MA	Fair condition. On sloping ground. Basal sucker growth. Forked from 1m. Multiple stems from forking point. Light ivy growth attached. Well-balanced crown. Could be prone to stem splitting. Could be ingress of water at forking point. <b>Action:</b> Sever ivy growth at base. Remove any weak and deformed stems. Clean the crown.	40+	C
0071	Sycamore	13.5	25,26 30,30 35,8 7	2N 2S 2E 2W	2S	3.0	MA	Fair condition. On edge of bank. To rear of building (6m.) On sloping ground. Basal sucker growth. Forked from base. Multiple stems from forking point. Light ivy growth to 8m. Well-balanced crown. Could be prone to stem splitting. Not for long-term retention. Splitting and cracks along stems. Fused stems on NW side. <b>Action:</b> Sever ivy growth at base. Cut basal sucker growth. Remove any weak and deformed stems. Clean the crown.	40+	C
0072	Sycamore	12.0	64	3N 3S 2E 2W	2SE	4.0	MA	Fair condition. On edge of embankment. Could become unstable. Basal sucker growth. Forked from 1.5m. Ivy growth to 9m. Well-balanced crown. Lacks vigour. <b>Action:</b> Sever ivy growth at base. Cut basal sucker growth. Reassess trees after ivy has died off. Clean the crown.	40+	C

0073	Lawson Cyprus	15.0	50E,60E 60E,48E	1N 2S 1E 1W	3S	3.0	MA	Poor condition. Forked at 1m. Close to steps on east side. On sloping ground. Prone to stem splitting or stem breakage. Ivy growth to 5m. Lower stem areas not assessed. Broken stem at 5m. east side. Broken stem hung up in crown. Fire damage in centre of tree. <b>Action:</b> Reduce height of tree by 10-15%. Sever ivy growth and reassess tree after ivy has died off. Remove hung-up stem from crown. Clean the crown.	20+	C
0074	Sycamore	14.0	21,20 21,31 20,26 18,15 28	3N 2S 3E 3W	3E	4.0	MA	Fair condition. In sheltered corner close to boundary walls. Multiple stems from base. Basal sucker growth. Could become problematic in time to come and prone to stem breakage. <b>Action:</b> Thin out to remove any weak or defective stems. Sever light ivy growth at base. Light prune back limbs on southern and western sides. Clean the crown.	20+	C
0075	Himalayan Tree Cotoneaster	6.0	12-Avg.	1N 3S 2E 3W	1N	2.0	MA	Good condition. Close to wall on southern side. Well-balanced crown. Heavy ivy growth. Wide-spreading crown. <b>Action:</b> NAR	40+	B
0076	Himalayan Tree Cotoneaster	4.0	4-Avg.	.5N .5S .5E .5W	.5E	1.0	Y	Good condition. Adjacent to wall. Multiple stems from base. Wide-spreading crown. <b>Action:</b> NAR	40+	B
0077	Sycamore	7.0	15,25 28E	1N 2S 3E 2W	0S	4.0	M	Fair condition. Growing on raised mound. Forked from base. Minor co-dominant stem on southern side. Main stem forked at 1m. Leaning to east. Heavy ivy growth to 8m. Restricted rooting on west ern side. Could be prone to wind throw. <b>Action:</b> Remove minor co-dominant stem. Sever light ivy growth and reassess trunk area after ivy has died off. Prune crown to improve balance and shape.	40+	C

0078	Sycamore	11.0	31,17 21,29	1N 2S 2E 1W	2S	4.0	MA	Poor condition. Decay at 1m. on west side. Heavy ivy growth to 6m. Difficult to assess. Adjacent to boundary wall. Limbs overhang property to south. Forked from .5m. Ivy growth to 7m. Wide-spreading crown. Not for long-term retention. Could cause structural damage to wall. <b>Action:</b> Fell.	20+	U
0079	Sycamore	9.0	18	1N 0S 0E 1W	2E	3.0	MA	Fair condition. Slight lean to east. Adjacent to boundary wall. Not for long-term retention. Could cause structural damage to wall. Branched from 1m. Unbalanced crown. <b>Action:</b> Crown raise to 3m. Consider removing tree in the short to medium term.	20+	C
0080	Sycamore	14.0	36,52	4N 4S 1E 4W	1SW	2.0	MA	Fair condition. Growing on sloping ground in dense shrubbery. Forked from base. Light ivy growth to 4m. 2 x main stems. Could develop a weak union. Wide-spreading crown. More crown weight to north. <b>Action:</b> Sever light ivy growth at base. Prune back limbs in crown to improve balance and shape. Crown raise to 2m.	40+	C
0081	Sycamore	15.5	43,29 59,52 61,32	7N 6S 6E 5W	2S	2.0	MA	Fair condition. On edge of embankment and close to access road. Basal sucker growth at base. Limbs overhang access road. Dead central stems. Weak stem unions at base. Prone to splitting. Light ivy growth on stems. Deadwood in crown. Wide-spreading crown. <b>Action:</b> Remove minor basal sucker growth. Remove dead central stem. Prune to reduce height and lateral spread. Clean the crown.	40+	C
0082	Sycamore	9.0	25E	1N 1S 1E 1W	3NW	4.0	MA	Fair condition. In dense scrub. Forked from 2m. Heavy ivy growth to 6m. Light crown. <b>Action:</b> Sever ivy and vine growth at base. Cut basal sucker growth.	40+	C

0083	Sycamore	13.5	34,28 34,36 31,21 13	3N 4S 3E 3W	2W	5.0	MA	Fair condition. Light basal sucker growth. Forked from base. Weak stem unions and prone to stem splitting. Scaring on most southerly stems. Broken stems at 4m. east side. Wide-spreading crown. <b>Action:</b> Cut basal sucker growth. Remove all dead and damaged stems. Clean the crown.	40+	C
0084	Sycamore	14.0	39,43	3N 0S 2E 3W	1SW	4.0	MA	Poor condition. Central stem removed in past. Asymmetrical crown. Slight lean to north and west. Damage to bark along stems. Light ivy growth to 2m. <b>Action:</b> Prune crown on west and north to improve balance and shape. Remove tree in short to medium term.	40+	C
0085	Sycamore	14.5	32,35 28	2N 5S 4E 2W	2SE	4.0	MA	Fair condition. Close to edge of embankment. Restricted rooting. Could be prone to whole tree failure. Forked from .25m. Ivy growth to 7m. Asymmetrical crown. More end weight to south over site. Could become unstable in time. <b>Action:</b> Fell	20+	U
0086	Oak	17.0	29,49 44	4N 5S 8E 7W	2E	7.0	MA	Fair condition. Forked from base. Prone to stem splitting. On sloping ground. Ivy growth to 10m. Minor deadwood in crown. Wide-spreading crown. <b>Action:</b> Prune crown to improve balance and shape. Sever light ivy growth at base. Clean the crown.	40+	B
0087	Common Ash	14.5	31	0N 1S 1E 1W	6SW	7.0	MA	Fair condition. Close to edge of embankment. Forked from 2m. Asymmetrical crown. More end weight to south. Crooked main stem. Could become unstable in time to come. <b>Action:</b> Prune back limbs on southern side. Sever light ivy growth at base. Consider removing tree in short term.	20+	C



0088 W1	Belt of - Common Ash Sycamore X 30 stems	13.0- Avg.	17-Avg.	.5N .5S .5E .5W	2S	4.0	MA	Fair condition. Growing close to edge of embankment. Whitethorn hedge to north at 1m. Ivy- covered stems. Could become unstable in time to come. Multiple stems from base. <b>Action:</b> Sever ivy and vine growth at base. Thin out to remove any weak, leaning or malformed stems. Remove any trees and stems close to edge of embankment. Prune back limbs on southern side. Reassess trees following completion of any development works within falling distance of trees.	40+	C
0089	Sycamore	14.0	24	0N 0S 0E 1W	5W	8.0	MA	Fair condition. Slightly crooked main stem. On sloping ground. Asymmetrical crown. Ivy growth to 9m. Minor deadwood in crown. More crown weight to west. <b>Action:</b> Sever light ivy growth at base.	40+	C
0090	Common Ash	15.0	23,18 19,18 19,13 13	2N 3S 3E 1W	4S	6.0	MA	Fair condition. Multi-stemmed ash. Forked from base. On edge of embankment. Could become unstable. Poor rooting capacity. Prone to stem splitting. Dead central stem. Wide- spreading crown. <b>Action:</b> Fell.	20+	U
0091	Sycamore	10.0	30	0N 1S 1E 2W	2W	2.0	MA	Fair condition. Forking point at 2m. Minor co-dominant stem at base - west side. Asymmetrical crown. Suppressed on southern side. <b>Action:</b> Remove minor co-dominant stem at base. Crown raise to 2m.	40+	C
0092	Common Ash	12.0	24,17	1N 0S 2E 2W	2SE	3.0	MA	Poor condition. Forked at 1m. Weak stem union. Crossing and fused stems. Slight lean to east. Deadwood in crown. <b>Action:</b> Clean the crown.	40+	C

0093	Common Ash	15.0	46,41 21,17	7N 5S 4E 5W	3S	5.0	MA	Poor condition. Forked from base. X 3 stems. Leaning stems to south and west. Light ivy growth attached. Dead stems from base. 2 x lower limbs on north side close to ground. <b>Action:</b> Pruning required to improve balance and shape. Reduce height of central stem by 10-15%. Consider removal of most westerly and southerly stem to achieve one straight stem. Crown raise to 3m. Sever ivy growth at base.	20+	C
0094	Sycamore	14.5	36,35	5N 0S 3E 0W	4NE	6.0	MA	Poor condition. Leaning stem to north. Unbalanced crown. More end weight to north and east. <b>Action:</b> Reduce most northerly stem in height by 10-15%. Prune back limbs on northern side. Prune crown to improve balance and shape.	20+	C
0095	Sycamore - Clump of 15 stems/trees	13.0	20-Avg.	4N 5S 2E 3W	2S	5.0	MA	Poor condition. On steep sloping ground. Forked from base. Light ivy growth attached. <b>Action:</b> Remove any weak stems. Prune back limbs on northern side over fence. Sever ivy growth at base. Clean the crown. Retain for bank stabilization purposes.	20+	C
0096	Sycamore X 6 stems	14.0- Avg.	22-Avg.	3N 2S 2E 1W	2S	5.0	MA	Poor condition. On steep sloping ground. Limbs overhang boundary fence to north. Bow-shaped stem on most southerly stem. Ivy growth attached. <b>Action:</b> Prune back limbs over fence to north. Sever light ivy growth at base. Reduce 2 x most northerly stems by 10-15%. Retain for bank stabilization purpose.	20+	C
0097	Common Ash	11.0	23,13	1N 2S 0E 1W	2S	4.0	MA	Fair condition. Forked from .5m. x 2 stems. Ivy growth to about 4m. <b>Action:</b> Sever ivy growth at base.	40+	C
0098	Common Ash	13.0	16,18 17,19 12,11	1N 2S 1E 1W	2S	4.0	M	Fair condition. Multi-stemmed. X 6 stems. Heavy ivy growth to about 5m. <b>Action:</b> Sever ivy growth at base. Prune to improve shape and form.	40+	C

0099	Sycamore	12.0	38	0N 3S 2E 1W	1N	3.0	MA	Fair condition. On sloping ground. Forked from 1.5m. Light ivy growth attached. Wide-spreading crown. <b>Action:</b> Crown raise to 2m. Sever light ivy growth at base.	40+	C
0100	Common Ash	14.0	23,20 24,15 14,10 8,7	4N 2S 3E 3W	2E	4.0	MA	Poor condition. Multiple stems from base. Leaning stems to north. Ivy growth to 6m. Wide-spreading crown. <b>Action:</b> Prune back leaning stems on norther side. Sever ivy growth at base. Clean the crown.	20+	C
0101	Common Ash	13.0	22,11	0N 3S 0E 1W	2S	4.0	MA	Good condition. Straight stem to 2m. Minor co-dominant stem on southern side. Unbalanced crown. Suppressed on northern side. <b>Action:</b> Remove minor co-dominant stem. Prune crown to improve balance and shape.	40+	B
0102	Common Ash	15.0	24,39 20,23 21,28 32,18	7N 5S 5E 3W	3W	6.0	MA	Poor condition. Forked from base. Fused stems. Weak stem unions. Prone to stem breakage. Heavy leaning stems to north over boundary fence. Wide-spreading crown. Crossing limbs in crown. Ivy growth to 10m. <b>Action:</b> Prune back limbs over fence to north. Reduce 2 x northerly stems in height by 20%. Sever ivy growth at base. Prune crown to improve balance and shape. Remove all weak and deformed stems. Clean the crown.	40+	C
0103	Common Ash	17.0	46E 54E	3N 7S 4E 4W	3S	9.0	MA	Poor condition. X 2 stems from base. On elevated steep embankment. Open wounds leading to decay on northern sides of both stems to 1m. close to base. Structurally weak stems and prone to stem breakage. Heavy ivy growth to about 14m. Signs of decline in crown. Asymmetrical crown. Leaning stems to east and west. Within 2m. of boundary fence to north. Limbs overhang outbuilding to SE. Light fixture at 4m. NE side. Decaying limbs over fence. <b>Action:</b> Fell	20+	U

0104	Common Ash	19.0	95E 30	0N 4S 1E 6W	4SE	7.0	MA	<p>Poor condition. On elevated steep embankment. Close to fence (1m.). Ivy growth to 5m. Forking point at 2m. Heavy scaffold and over-extended stem to west at about 4m. Ivy and vine growth attached. Pruned in past at 5m. north side. Broken limb with decay at NE side at 12m. Signs of decline and dead stems in crown. More end weight to west and south. Minor co-dominant stem to south.</p> <p><b>Action:</b> Reduce all stems in height by 20%. Sever ivy and vine growth at base and reassess tree after ivy has died off. Prune crown to improve balance and shape. Remove central dead stems. Clean the crown. Or Fell tree.</p>	20+	C/U
0105	Common Ash	18.0	72,69E 28	1N 5S 3E 3W	3S	12.0	MA	<p>Poor condition. On elevated steep embankment. X 2 stems. Forked from base. Weak stem union. 1m. from boundary fence. Stems pruned in past on northern side. Dead stem on SE side. High and open crown. Leaning stem to west. Broken stem in crown at 5m.</p> <p><b>Action:</b> Reduce all stems in height by 20%. Sever light ivy growth at base. Remove dead stem to SE. Clean the crown. Remove light co-dominant stem with heavy ivy growth to east.</p>	20+	C

0106	Common Ash	18.0	65,90E	4N 4S 4E 1W	3SW	8.0	MA	Poor condition. On elevated steep embankment. X 2 stems. Forked from base. Leaning stem to east. Adjacent to fence. Minor co-dominant stems at base on southern sides. Forked at base then at 1.5m. Leaning stems to north over road and to east. Prone to stem breakage. High crown. Limbs overhang road to north. Deadwood in crown. Hangar on southern side. Over-extended limb to south at 3m. Signs of decline in crown. Signs of canker and lesions along stems. <b>Action:</b> Remove minor co-dominant stem on southern side. Reduce in height by 25%. Prune back limbs on northern side. Clean the crown. Prune back limbs on southern side. Or consider removing tree.	20+	C/U
0107	Common Ash	8.0	17,13 21,27	0N 0S 2E 2W	3W	3.0	MA	Poor condition. Suppressed by large ash tree immediately to north. X 4 stems. Leaning and deformed stems. On sloping ground. Poor long-term potential. Light ivy growth attached. Crossing stems. <b>Action:</b> Fell.	20+	U
0108	Common Ash	12.0	21,16 9	1N 2S 1E 3W	2S	4.0	MA	Fair condition. Close to edge of embankment in dense scrub. Forked from base. Prone to stem breakage. Leaning stems. Could develop weak stem unions. Difficult to assess. Not for long-term retention. <b>Action:</b> NAR	20+	C
0109	Common Ash Tag represents group of young ash sucker trees. -Group of 8 stems.	9.0- Avg.	14 - Avg.	1N 1S 1E 1W -Avg.	3S	5.0	M	Fair condition. Light stems. Light crowns. Ivy growth attached. <b>Action:</b> Pruning required to improve shape and form. Thin out any weak and malformed stems.	40+	C
2998	Willow	6.0	14-Avg.	1N 1S 1E 1W	.5N	.5	MA	Fair condition. Multi-stemmed. Forked from base. Light ivy growth attached. <b>Action:</b> NAR.	20-40	C

2999	Common Ash	8.0	19 13 12 10	1N 2S .5E .5W	.5S	1.5	M	Fair condition. X 4 stems. Ivy growth attached to stems. Forked from base. <b>Action:</b> Sever ivy growth at base.	20-40	C
3000	Common Ash	10.0	21E	.5N .5S .5E 1W	7S	7.0	M	Fair condition. Derived from old stump. Heavy ivy growth to about 6m. Possibly weak attachment at base. Could become unstable in time. <b>Action:</b> Sever ivy growth at base.	10-20	C

## Appendix 2 -Tree Root Protection Areas (RPA)

**Root Protection Areas (RPA) - Trees St. Kevin's Hospital**

Tree No	DBH	RPA(m2)	RPA equiv. to circle with rad.of
1	23.0867928	24	2.77
2	70	222	8.40
3	42	80	5.04
4	86	335	10.32
5	72	235	8.64
6	84.5813218	324	10.15
7	43	84	5.16
8	97.4371592	430	11.69
9	26	31	3.12
10	33	49	3.96
11	37	62	4.44
12	19	16	2.28
13	41	76	4.92
14	73	241	8.76
15	38.249183	66	4.59
16	90	366	10.80
17	55	137	6.60
18	40	72	4.80
19	48	104	5.76
20	47	100	5.64
21	85.0411665	327	10.20
22	46	96	5.52
23	52	122	6.24
24	56	142	6.72
25	60	163	7.20
26	33	49	3.96
27	45	92	5.40
28	40	72	4.80
29	34	52	4.08
30	46	96	5.52
31	45.8148448	95	5.50
32	43.6004587	86	5.23
33	62	174	7.44
34	36	59	4.32
35	39	69	4.68
36	27	33	3.24
37	69.7567201	220	8.37
38	47	100	5.64
39	84.314886	322	10.12
40	26	31	3.12
41	32	46	3.84
42	22	22	2.64
43	34	52	4.08
44	36.8917335	62	4.43
45	42	80	5.04
46	17.5783958	14	2.11
47	63.8200595	184	7.66
48	37	62	4.44
49	34	52	4.08
50	23	24	2.76
51	28	35	3.36
52	34	52	4.08
53	25	28	3.00
54	45	92	5.40
55	18	15	2.16
56	32	46	3.84

**Root Protection Areas (RPA) - Trees St. Kevin's Hospital**

Tree No	DBH	RPA(m2)	RPA equiv. to circle with rad.of
57	22	22	2.64
58	111.189028	559	13.34
59	124.835892	705	14.98
60	49	109	5.88
61	57.6888204	151	6.92
62	90	366	10.80
63	50	113	6.00
64	55	137	6.60
65	70	222	8.40
66	67.4240313	206	8.09
67	67.9779376	209	8.16
68	38	65	4.56
69	28	35	3.36
70	96.8194195	424	11.62
71	55.6866232	140	6.68
72	64	185	7.68
73	104.42222	493	12.53
74	62.1932472	175	7.46
75	33.9411255	52	4.07
76	11.3137085	6	1.36
77	40.4227659	74	4.85
78	50.3189825	115	6.04
79	18	15	2.16
80	63.2455532	181	7.59
81	116.704756	616	14.00
82	25	28	3.00
83	77.2204636	270	9.27
84	58.0517011	152	6.97
85	55.0726793	137	6.61
86	71.9583213	234	8.63
87	31	43	3.72
88	48.0832611	105	5.77
89	24	26	2.88
90	47.2969344	101	5.68
91	30	41	3.60
92	29.4108823	39	3.53
93	67.2829845	205	8.07
94	50.2095608	114	6.03
95	56.5685425	145	6.79
96	62.2253967	175	7.47
97	26.4196896	32	3.17
98	38.6652299	68	4.64
99	38	65	4.56
100	46.2493243	97	5.55
101	24.5967478	27	2.95
102	74.8264659	253	8.98
103	70.9365914	228	8.51
104	99.6242942	449	11.95
105	103.580886	485	12.43
106	111.018017	558	13.32
107	38.1968585	66	4.58
108	27.8926514	35	3.35
109	39.5979797	71	4.75
2998	39.5979797	71	4.75
2999	27.8208555	35	3.34
3000	21	20	2.52

Table 3: Tree Root Protection Zones

- Appendix 3:
- Default specification for protective barrier - Figure 2.
  - Examples of above-ground stabilizing systems - Figure 3.

Figure 2 Default specification for protective barrier

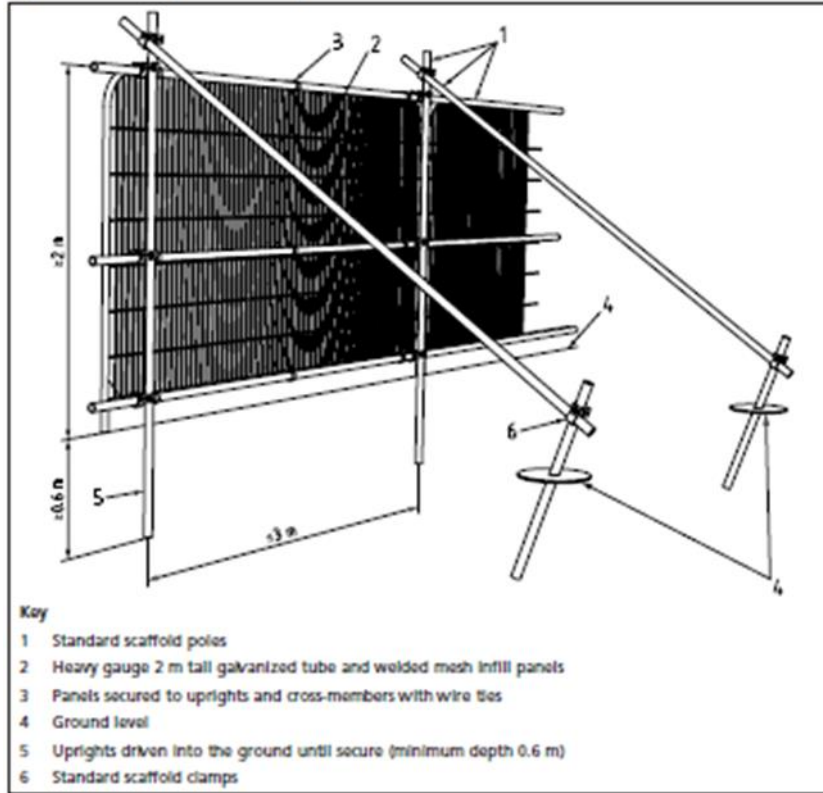
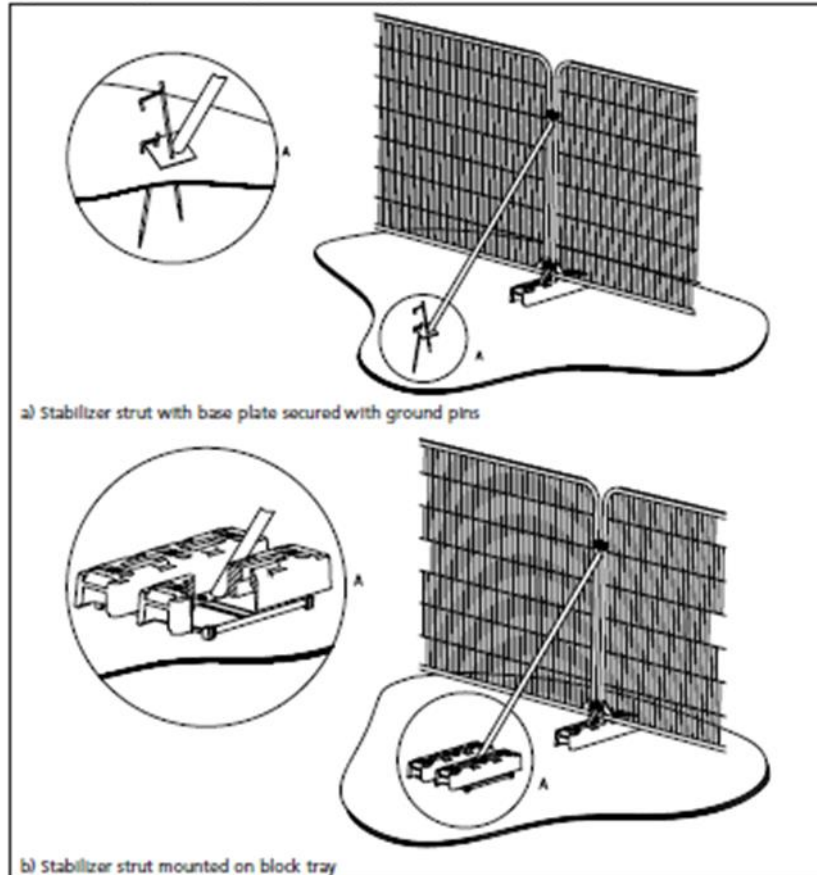
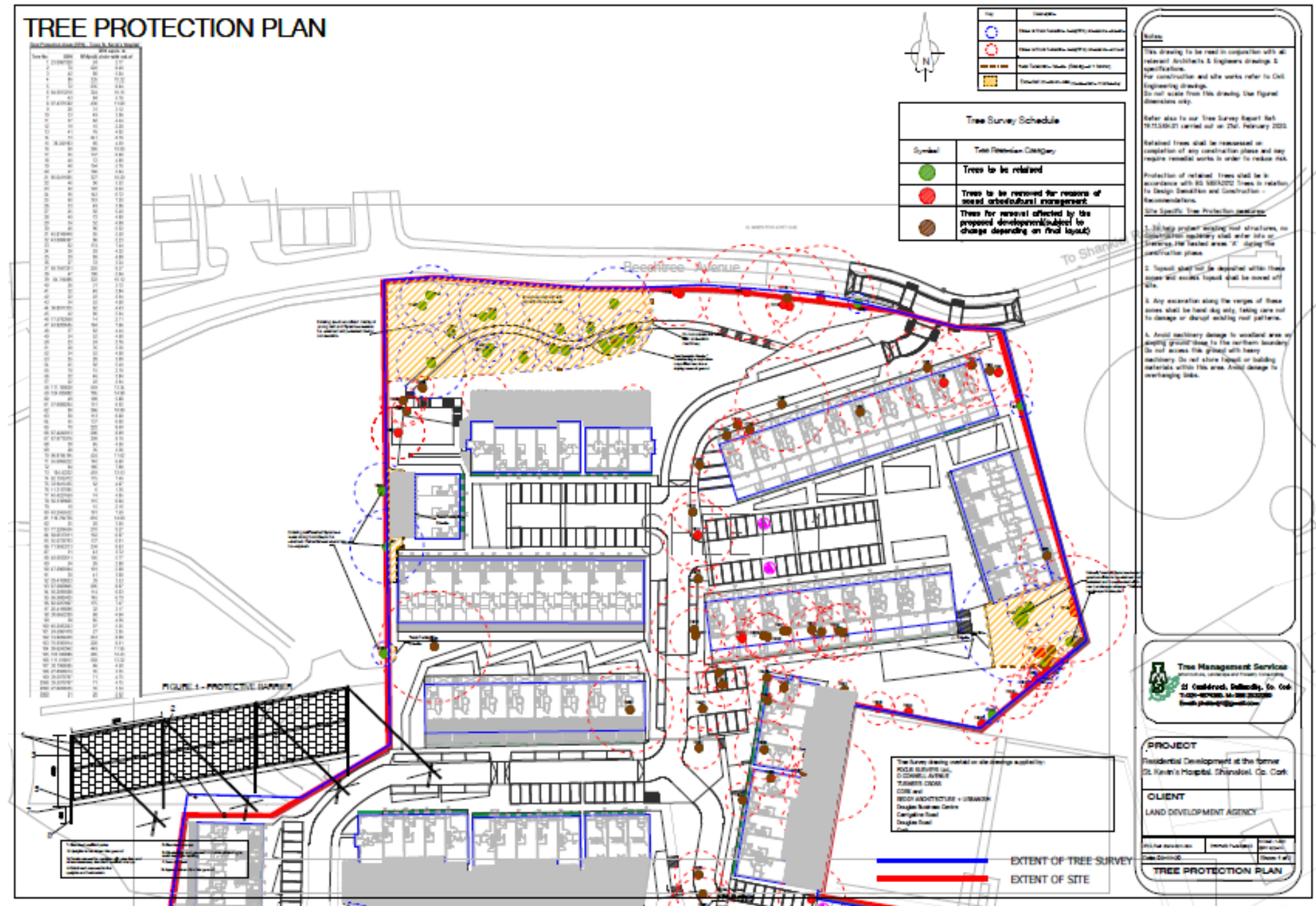


Figure 3 Examples of above-ground stabilizing systems





## Appendix 4: Tree Root Protection Plan 20.04.SKH.02A Sheet 1:



## Appendix 4(contd.): Tree Root Protection Plan 20.04.SKH.02A Sheet 2:

