Arboricultural Report

Tree Survey,

Arboricultural Impact Assessment &

Arboricultural Method Statement

In relation to the development proposal at:

Belgard Square East

Belgard Road and Blessington Road

Tallaght

Dublin 24

May 2022

210812-PD-11-A

CHARLES MCCORKELL
ARBORICULTURAL CONSULTANCY

Contents

Section 1: Arboricultural Impact Assessment

1 Summary

1.1 This arboricultural report has been instructed by Ravensbrook Ltd. (the 'Applicant').

1.2 The proposal is for the construction of a strategic housing development at Belgard Square East, Belgard Road and Blessington Road, Tallaght, Dublin 24 (the 'Application Site').

1.3 This report includes:

- an assessment of the trees, their quality and value in accordance with BS 5837:2012 - Trees in relation to design, demolition and construction;
- the site context and observations on the trees;
- local planning policies relevant to the consideration of trees on the site;
- the impact of the proposed development upon the tree population in and around the site;
- methods of reducing impacts on trees; and
- measures to be taken to protect trees during the proposed works.

1.4 The proposed development requires the removal of three moderate quality and value trees (B Category); 24 low quality and value trees and groups (C Category); and one poor quality tree (U Category).

1.5 The loss of street trees, in particular those of Category B, will have an initial impact on the character and appearance of the immediate surrounding area.

1.6 The removal of trees internally within the site will have a negligible impact due to their low quality and limited public amenity value.

1.7 The landscape proposal has included new high-quality tree planting along the public highway and within the site to help mitigate the loss of trees. In the long term, as these trees mature, they can increase local canopy cover and replace the initial visual impact removing trees will have on the local landscape.

1.8 In conclusion, tree impacts have been assessed and tree protection measures have been specified in accordance with best practice and are sufficient to safeguard retained trees during the proposed works.

2 Introduction

Instructions

2.1 This arboricultural report has been instructed by Ravensbrook Ltd., to provide information to assist all parties involved in the planning process to make balanced judgements with regard to the arboricultural features in relation to the proposed development at Belgard Square East, Belgard Road and Blessington Road, Tallaght, Dublin 24.

Development proposal

2.2 The proposed development will consist of the demolition of existing boundary wall and construction of:

1. c. 2,289 sqm of retail/commercial floor space across 10 no. units including retail, restaurant/café and Class 2 financial/professional services and office use, and a crèche (257sqm) at ground and first floor levels;

2. 310 no. build to rent residential apartments including 99 no. one bedroom units, 203 no. 2 bedroom units and 8 no. three bedroom units within a part 6 to part 12 no. storey development across 3 blocks over partial basement;

3. c. 2,223 sqm of communal external amenity space provided in the form of a ground floor garden and external terraces at fifth, sixth, seventh and eighth floor levels; c. 1,026 sqm of public open space provided in the form of a central courtyard with landscaped areas at site perimeters;

4. c. 1,785 sqm of resident support facilities and services and amenities provided at basement, ground and first floor levels;

5. Vehicular access to the basement development from a new access point at Belgard Square East;

6. A new tertiary route will be provided in the southern part of the site linking Belgard Square East and Belgard Road;

7. Provision of 130 no. car parking spaces (including 8 no. club car spaces and 6 no. disabled access spaces) at basement level in addition to 5 no. set down spaces (4 no. serving creche) and 1 no. disabled access space at ground level, layby on Belgard Square East, 6 no. motorcycle spaces and a total of 763 no. bicycle parking spaces;

8. Provision of 4 no. Ø0.3m microwave link dishes to be mounted on 2 no. steel support pole affixed to lift shaft overrun, all enclosed in radio friendly GRP shrouds, together with associated equipment at roof level at Block B;

9. Provision of 3 no. ESB substations with switch rooms and plant rooms at basement level, hard and soft landscaped areas, bin and bicycle stores, public lighting, attenuation, green roof, plant at roof level, service connections and all ancillary site development works.

Qualification and experience

2.3 The author of this report, Charles McCorkell, is a Chartered Arboricultural Consultant that deals with trees in relation to all forms of human activity, including the built environment. He is a Professional Member of the Institute of Chartered Foresters, a Professional Member of the Arboricultural Association, a qualified professional tree inspector (LANTRA), and has a BSc Honours Degree in Arboriculture from the University of Central Lancashire.

Scope and limitations

2.4 The survey is not a health and safety inspection of trees; however, trees identified as imminently dangerous will have been highlighted and recommendations made, where appropriate.

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Methodology and guidance

2.6 The author has referred to *British Standard 5837: Trees in relation to design, demolition and construction (2012)* which provides a methodology for the assessment of trees and other significant vegetation on development sites.

2.7 BS 5837:2012 is intended to assist decision making with regard to existing and proposed trees and sets out the principles and procedures to be applied in order to achieve a harmonious relationship between existing and new trees and structures that can be sustained for the long term.

2.8 The BS 5837:2012 recommends the National Joint Utilities Group (NJUG) document *Guidelines for the planning, installation and maintenance of utility apparatus in the proximity to trees.* Volume 4, issue 2. London: NJUG, 2007, as a normative reference for guidance on the installation of utilities within proximity to trees.

Supporting information

2.9 This report should be read in conjunction with the following supporting documents attached to this report.

Document	Reference	Location
Arboricultural Method Statement	N/A	Section 2
Tree Schedule	210812-PD-10	Appendix A
Tree Work Schedule	210812-PD-12-A	Appendix A
Tree Survey & Constraints Plan	210812-P-10-A	Appendix B
Tree Removals Plan	210812-P-11-A	Appendix B
Tree Protection Plan	210812-P-12-A	Appendix B

Definitions

2.10 **Root Protection Area (RPA)** – a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree.

2.11 **Tree Protection Zone (TPZ)** – an area based on the RPA in m^2 identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

3 Observations & Context

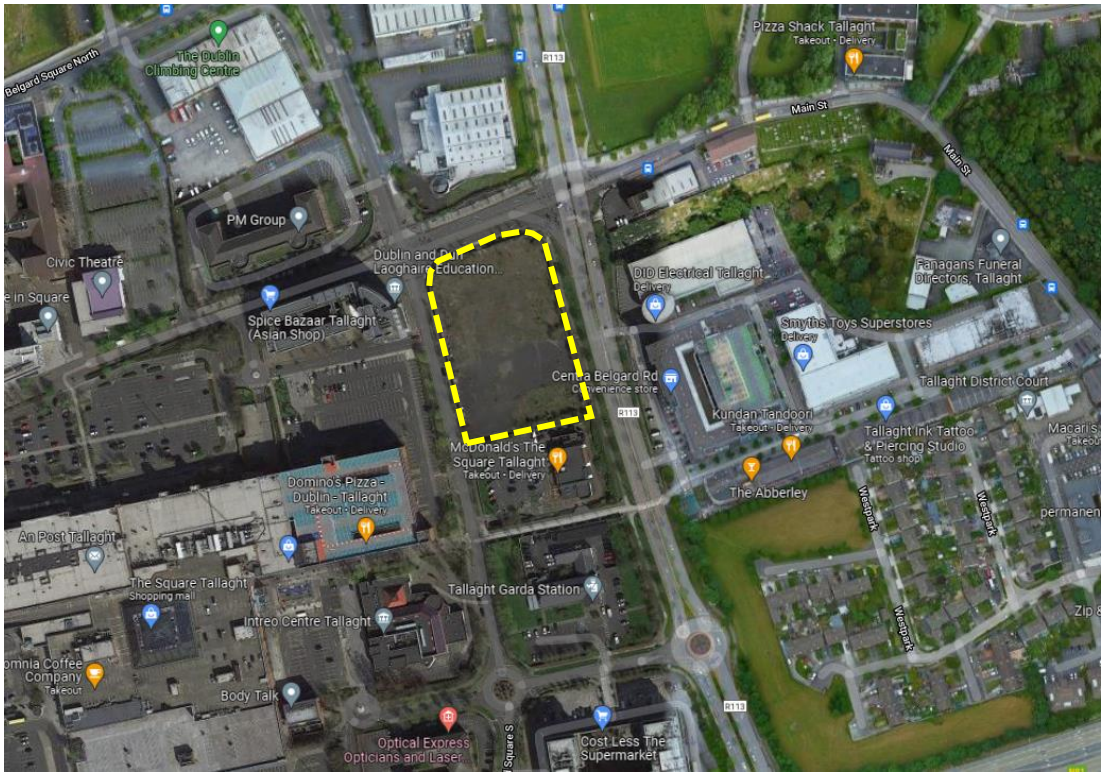
Site visit

3.1 The site was visited by Charles McCorkell on 30 August 2021, to survey on and off-site trees and vegetation which may be of significance to the proposed development. The survey was carried out in accordance with BS 5837:2012 and from ground level only.

Site location and description

3.2 The Application Site is situated on the south-eastern corner of the Belgard Square East and Blessington Road junction (Map 1). It is a rectangular shaped site that is currently unused. It comprises of tarmac and areas of naturally regenerated trees and shrubs. There are no existing buildings on the site.

3.3 The surrounding area comprises of McDonald's to the south, the Square Tallaght shopping centre to the west, and Abberley Square to the east, a mixed-use commercial and residential site.



Map 1 (Google 2021): Dashed yellow line highlighting the location of the main development proposal within the local area.

Description of the tree cover

3.4 The tree cover within the site comprises of naturally regenerated buddleja, silver birch, Italian alder, and sycamore. These are all of a young or semi-mature age and none are considered to be notable specimens.

3.5 Along the eastern boundary of the site there are six semi-mature lime trees. These trees have been planted and formed part of the previous development.

3.6 Adjacent to the western, northern, and eastern perimeter of the site there is a mixture of street trees. These comprise of sycamore, Norway maple, and lime.

Views of the site and trees

Image 1: View from within the site from the northern boundary. This area contains naturally regenerated Italian alder, silver birch and buddleja.

Image 2: View from within the site from the southern boundary.

Image 3: View of the sycamore trees (T2 to T7) located along Belgard Square East, adjacent to the western boundary of the site.

Image 4: View of the sycamore and Norway maple trees (T8 to T15) located along Blessington Road, adjacent to the northern boundary of the site.

Image 5: View of the lime trees (T16 to T21) located along the R113, adjacent to the eastern boundary of the site.

4 Local Planning Policy

Development Plan 2016-2022

4.1 The current South Dublin County Council Development Plan 2016-2022 contains several policies that relate to trees. These include:

G2 Objective 5

To integrate Green Infrastructure as an essential component of all new developments;

G2 Objective 9

To preserve, protect and augment trees, groups of trees, woodlands and hedgerows within the County by increasing tree canopy coverage using locally native species and by incorporating them within design proposal and supporting their integration into the Green Infrastructure network;

HCL15 Objective 3

To protect existing trees, hedgerows, and woodlands which are of amenity or biodiversity value and/or contribute to landscape character and ensure that proper provision is made for their protection and management in accordance with Living with Trees: South Dublin County Council's Tree Management Policy 2015-2020.

Development Plan 2022-2028

4.2 The Draft County Development Plan 2022-2028 contains the following policies that relate to trees and are to be considered:

GI1 Objective 1

To establish a coherent, integrated and evolving GI Network across South Dublin County with parks, open spaces, hedgerows, trees including public street trees and native mini woodlands (Miyawaki-Style), grasslands, protected areas and rivers and streams and other green and blue assets forming strategic links and to integrate and incorporate the objectives of the GI Strategy throughout all relevant land use plans and development in the County.

GI5 Objective 3

To ensure compliance with the South Dublin Climate Change Action Plan and the provisions of the Council's Tree Management Strategy.

- Increase the County's tree canopy cover by promoting annual planting, maintenance preservation and enhancement of trees, woodlands and hedgerows within the County using locally native species and supporting their integration into new development.

GI5 Objective 6

To provide more tree cover across the county, in particular to areas that are lacking trees.

NCBH11 Objective 3

To protect and retain existing trees, hedgerows, and woodlands which are of amenity and/or biodiversity and/or carbon sequestration value and/or contribute to landscape character and ensure that proper provision is made for their protection and management taking into account Living with Trees: South Dublin County Council's Tree Management Policy (2015-2020) or any superseding document and to ensure that where retention is not possible that a high value biodiversity provision is secured as part of the phasing of any development to protect the amenity of the area.

Tree Management Policy 2015-2020

4.3 The South Dublin County Council Tree Management Policy 'Living with Trees' 2015-2020 contains information within Chapter 7 Trees and Development that relates to the retention, protection and planting of trees on development sites. Relevant points within this section include:

- The Council will use its powers to ensure that where it is conductive with the objectives of the County Development Plan, and other planning objectives there is maximum retention of trees on new development sites.
- In the processing of planning applications, the Council will seek the retention of trees of high amenity / environmental value taking consideration of both their individual merit and their interaction as part of a group or broader landscape feature.
- On construction sites all work must be in accordance with British Standard 5837 (2012): Trees in Relation to Design, Demolition and Construction – Recommendations.
- The Council will promote the replacement of trees removed to facilitate approved planning and development of urban spaces, buildings, streets, roads, infrastructural projects and private development sites.

5 Technical Information

Tree data

5.1 The Tree Survey Plan at Appendix B illustrates the location of trees, the extent of the spread of their crowns, and their root protection areas. Dimensions, comments and information for each tree are given in the Tree Schedule at Appendix A.

Life stage analysis

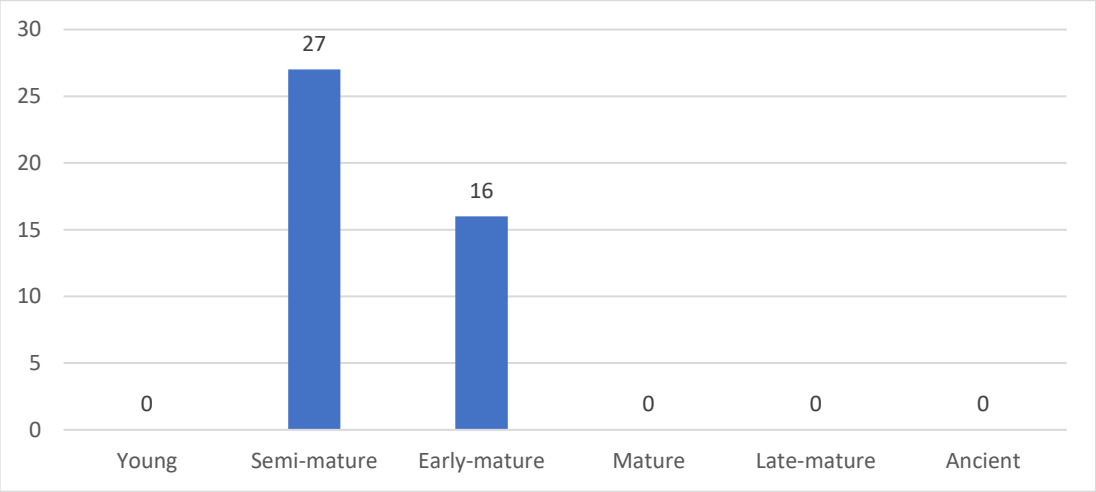


Figure 1: Life stage analysis of the 43 survey entries recorded on and adjacent to the site.

BS5837 (2012) category breakdown

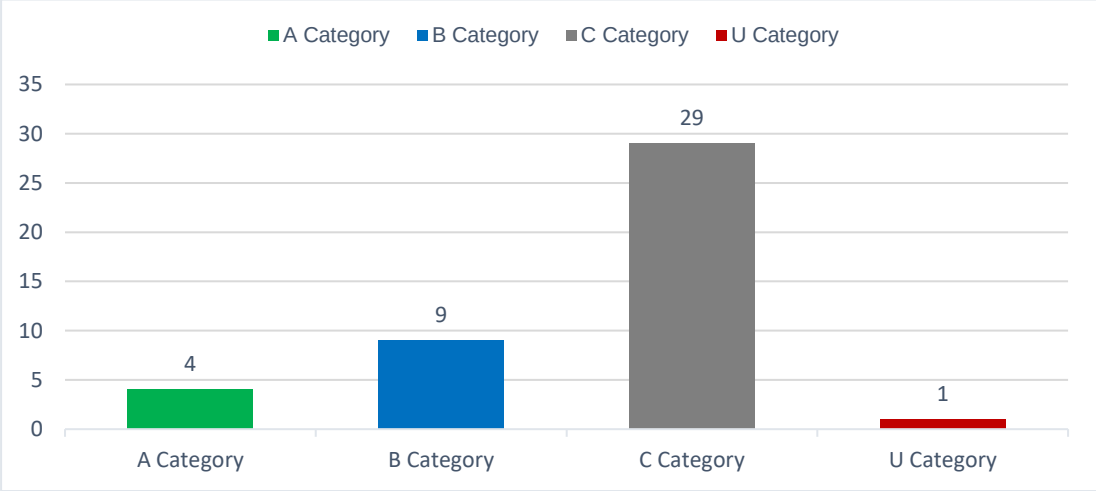


Figure 2: Breakdown of BS5837:2012 categories of the 43 survey entries recorded on and adjacent to the site.

6 Analysis of the Proposal in Respect of Trees

Arboricultural Impacts

6.1 ***Loss of trees –*** To facilitate the proposed development, 23 trees, three groups of trees, and two hedgerows are required to be removed.

6.2 Of the 28 survey entries proposed to be removed, three trees are of moderate quality and value (B Category), 24 trees and groups are of low quality and value (C Category), and one tree is of poor quality (U Category).

6.3 Full details of the proposed removals are specified within the Tree Work Schedule at Appendix A and are shown on the Tree Removals Plan at Appendix B.

Figure 3: Proposed removals in comparison to the total number of survey entries recorded and their category in accordance with BS5837:2012.

6.4 The loss of trees and shrubs located internally within the site will have an insignificant impact on the character and appearance of the local surrounding area due to their low quality and limited public amenity value.

6.5 The street trees proposed to be removed are of high public amenity value due to their prominent location and their loss will have an initial visual impact on the local surrounding area.

6.6 The proposed development has taken into consideration the trees required to be removed and has included new high-quality tree planting within the site and along the public highway in order to mitigate the loss of trees.

6.7 ***Construction of main buildings –*** The construction of the proposed buildings within the site will not require excavation or other works within the RPAs of retained trees. No special methods of construction are therefore required.

6.8 ***Daylight and sunlight levels -*** Shading by trees is not considered a significant issue in relation to this proposal.

6.9 ***Refurbishment of existing hard standing –*** The existing hard standing located within the RPAs of trees, as highlighted on the Tree Protection Plan, is required to be refurbished as part of the development works. The refurbishment of existing hard standing can be undertaken without adversely impacting the retained trees provided no excavation works occur beyond the depth of the existing sub-base layer. These works are required to be carried out under arboricultural supervision.

6.10 ***Excavation within tree RPAs –*** Excavation works are required within the RPAs of retained trees to construct new areas of hard standing. Minor root loss may occur during these works; however, it is unlikely to negatively impact their long term health, as the majority of the rooting area will remain unaffected. These works are required to be carried out with the use of hand tools under the guidance of the arboricultural consultant. Where root pruning is required, this must be done using a clean and sharp hand saw or secateurs.

6.11 ***Tree protection measures –*** All retained trees can be successfully protected during the proposed development works by using robust fencing measures which comply with the recommendations outlined within BS 5837:2012. The location and specification of tree protection measures are highlighted on the Tree Protection Plan at Appendix B.

6.12 ***Drainage and services*** – The proposed drainage layout has been assessed and no new runs are required to be installed within the RPAs of retained trees.

6.13 Full details of the proposed underground services required to facilitate the new development are currently unknown. Where proposed underground services are required, these must avoid the RPAs of retained trees.

6.14 If avoiding RPAs is not possible, the installation of underground services must adhere to industry best practice. The BS 5837:2012 recommends the National Joint Utilities Group Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees Volume 4, issue 2: NJUG, 2007 as a normative reference in these instances.

6.15 ***Landscape operations -*** Landscaping operations will typically take place at the end of the construction period. These works will normally require the removal of protective

fencing to facilitate access for works. There is a risk that machinery may damage the soil structure where tree roots are growing. These risks can be managed by maintaining good professional standards of work and working to a method statement. The principle of avoiding soil disturbance or changes in levels within the RPAs of retained trees should be followed unless arboricultural advice has been sought.

Arboricultural mitigation

6.16 A detailed landscape proposal has been designed and will form part of the planning application for the development proposal. This design includes the planting of new high-quality trees, both along the public highway and within the site.

6.17 The proposed new planting will help to mitigate the loss of trees required to facilitate the development and in the medium to long term, can have a positive impact on the character and appearance of the development and the local surrounding area.

7 Discussion & Conclusion

General Change

7.1 The loss of street trees, in particular those of Category B, will have an initial impact on the character and appearance of the immediate surrounding area. The removal of these trees is regrettable; however, replacement planting has been proposed and their loss is required to carry out the overall public realm improvement works, which can have a long-term positive impact on the local landscape.

7.2 Internally within the site, the impact the loss of trees will have on the local area is insignificant. These trees are of low quality and have limited public amenity value. Many of which have naturally regenerated over the last number of years considering the unoccupied nature of the site.

New Landscaping

7.3 The landscape proposal has included new high-quality tree planting along the public highway to help mitigate the loss of street trees. The quantity of trees proposed to be planted along the public highway is greater than what is required to be removed. In the long term, as these trees mature, they can increase local canopy cover within this area and replace the initial visual impact removing trees will have on the local landscape.

7.4 Internally within the site, the landscape proposal includes significant new tree, shrub and hedge planting. This planting will have a positive impact on the amenities and visual appearance of the development and the local surrounding area.

Sustainability

7.5 The approach to trees and landscape on the site is sustainable; best practice guidance has been followed and where trees are required to be removed, significant new high-quality tree planting has been proposed. In the long term, this has the potential to bring a positive benefit to the site and the local area generally.

Proposal in relation to local planning policy

7.6 The proposed development requires the removal of trees that are of amenity value and in this regard, it does not adhere to local planning policy. The landscape proposal has taken into consideration the loss of these trees and has proposed substantial new high-quality tree planting that has the potential to increase local canopy cover in the future. Such replacement planting is in accordance with local planning policy.

7.7 In terms of tree protection, the proposal has been assessed in accordance with best practice BS5837:2012 and provided the recommendations as detailed within this report are followed, all retained trees can be successfully safeguarded for the duration of construction.

Arboricultural impacts and mitigation

7.8 Constraints posed by trees have been assessed and where impacts occur, these have been identified specifically in this report and can be addressed using sensitive design and construction measures.

7.9 The protection of retained trees on this site during the proposed development works can be achieved by continuing to follow the recommendations in BS5837:2012 and by compliance with suitably drafted planning conditions.

Section 2: Arboricultural Method Statement

Introduction

This report has been prepared in accordance with British Standard 5837: Trees in relation to design, demolition and construction – Recommendations (2012) which provides a methodology for the assessment and protection of trees and other significant vegetation on development sites.

Sequence of Operations

- Proposed tree works.
- Installation of tree protection measures.
- Enabling works, including the installation of a site compound.
- Construction, including the installation of drainage and services.
- Landscaping.

Alternative sequences can be discussed and agreed with the local authority and project manager if required.

Supervision

All key / critical activities that will affect trees during construction will be inspected and monitored by the approved arboricultural consultant.

- Pre-commencement meeting with site manager and local planning authority to discuss tree protection measures;
- Inspection of tree works and protection measures prior to the commencement of works;
- Monthly site visits to inspect tree protection measures;
- Supervision during the removal of existing hard standing within tree RPAs;
- Supervision during excavation works within tree RPAs;
- Supervision during the installation of drainage and services within tree RPAs;
- Supervision during any other works that may affect retained trees; and
- Tree inspection upon completion.

Arboricultural Method Statement	
Scope	**Methodology**
Pre-commencement meeting	Prior to the commencement of works, a meeting between the arboricultural consultant, site manager, and local planning authority will be held in order to discuss the tree protection measures and proposed works required in close proximity to trees. Contact details of all parties will be circulated to ensure all team members are able to communicate correctly. The site manager will be responsible for the protection of all retained trees for the duration of the project. Whenever necessary, the site manager will engage the arboricultural consultant to ensure trees are adequately protected. The appointed arboricultural consultant will be available for verbal advice throughout site works.
Tree Works	Please refer to the Tree Work Schedule at Appendix A for a list of all proposed tree works. The location of trees to be removed are highlighted on the Tree Removals Plan at Appendix B. It is the responsibility of the Site Manager to ensure all tree works have been approved by the local planning authority. All tree works will be carried out by a reputable arboricultural contractor in accordance with the recommendations given in BS 3998:2010 – Tree Work Recommendations. All tree works should be carried out in accordance with Section 40 of the Wildlife Act 1976 and Section 46 of the Wildlife (Amendment) Act 2000. It is the responsibility of the arboricultural contractor to ensure that no protected species are harmed whilst carrying out site clearance or tree surgery works.
Tree Protection	The position of protective fencing for construction is shown on the Tree Protection Plan at Appendix B. Protective fencing must be constructed and installed using the BS5837:2012 fencing specification as detailed on the Tree Protection Plans at Appendix B. Alternatives to those shown must be agreed in advance by the client approved, arboricultural consultant.

	No materials or equipment other than those required to erect protective fencing will be delivered to the site before the fencing is installed. Signs will be fixed to every third panel stating, *'Tree Protection Area Keep Out – Any incursion into the protected area must be with the agreement of the local authority or arboricultural consultant'*. The main contractor will inform the local authority and the arboricultural consultant that tree protection is in place before site clearance works commence. No alteration, removal or repositioning of the tree protection will take place during construction without the prior consent of the arboricultural consultant.
Compound Area	The site compound must be located outside the designated TPZs as highlighted on the Tree Protection Plans at Appendix B. No excavation works within tree RPAs are permitted to install temporary services for site cabins and facilities. Any temporary services within tree RPAs must be above ground and protected accordingly. No operating generators or toxic liquids will be stored within the RPAs of retained trees during construction. Overhanging tree canopies must be taken into consideration when transporting, installing and removing site cabins near tree crowns. A banksman will be present during this process to ensure that all operations are carried out in a controlled manner and no part of the cabin meets overhanging tree crowns.
Removal of existing hard standing with tree RPAs	The upper surface of existing hard standing located within the RPAs of retained trees will be fractured with a machine or using hand tools, and all lose material will be removed. The removal of the sub-base material must only be carried out under the supervision of the arboricultural consultant and works will not exceed beyond the depth of the sub-base layer into virgin soil. Where it is deemed necessary, temporary ground protection/tree protection barriers will be installed to protect the rooting area until practical completion.
Excavation within tree RPAs	Excavation works within the RPAs of retained trees will be carried out under arboricultural supervision.

	Root pruning will only be carried out under the guidance of the arboricultural consultant, using sharp, sterile tools suitable to the size of the root to be cut. Where possible roots will be pruned cleanly back to a side branch.
Drainage and Service Installation	All methods of work for the installation of drainage runs or services within the RPAs of retained trees will follow the guidance within Table 3 of BS 5837 (2012), or National Joint Utilities Group (NJUG) *Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees*. Volume 4, issue 2, London NJUG 2007. Any approved works within the TPZ will be carried out using either hand tools such as an air lance and vacuum excavator or trenchless techniques as outlined within Table 3 of BS5837:2012. For excavation works, all roots greater than 25mm in diameter will be retained and will be immediately wrapped in dry hessian to prevent desiccation and temperature fluctuations. Roots will be pushed aside to allow for runs to be installed. In some cases, individual roots less than 25mm in diameter may be pruned, making a clean cut with a suitable sharp sterile tool (e.g. secateurs or hand saw). Prior to root pruning taking place, the contractor will consult the arboricultural consultant. Trenches should not remain open for more than one day. If this is unavoidable, any exposed roots should be watered and covered with hessian until the area is backfilled with soil. No machinery will be permitted within the TPZ at any time unless ground protection is installed and agreed with the arboricultural consultant beforehand. The requirement for temporary ground protection must be installed in accordance with Section 6.2.3.3 of BS 5837:2012. Prior to drainage or service installation works commencing within RPAs, the arboricultural consultant will be contacted, and a date agreed for a site meeting to run through the proposed methods of work on site with the site manager and relevant site operatives.
General Principals to Avoid Damage to Trees	All tree works will be carried out in accordance with the recommendations given in BS 3998 (2010). No fires will be permitted within 20m of the crown of any tree.

	No changes in soil levels will take place within the tree protection zones without the prior written consent of the local authority. No materials, vehicles, plant or personnel will be permitted into the tree protection zones at any time without the prior consent of the arboricultural consultant. Any liquid materials spilt on site will be immediately cleared up and removed from the site. If liquid fuel or cement products are spilt within 2m of the tree protection zone, the contractor will report the incident to the arboricultural consultant immediately. The contractor will report any damage to trees or shrubs, whether caused by construction activities or from any other cause, to the arboricultural consultant immediately.
Landscape Operations	All landscape operations within the protected area will be carried out by hand, using hand tools only, unless otherwise agreed with by the arboricultural consultant. No dumping of spoil or rubbish, parking of vehicles or plant, storage of materials or temporary accommodation will be undertaken within the TPZs. All tree roots within the RPAs greater than 25mm diameter will be retained and worked around. Soil levels will not be increased or reduced within the RPAs of trees without prior agreement from the arboricultural consultant.

Appendix A - Schedule

Document	Reference	Revision
Tree Schedule	210812-PD-10	-
Tree Work Schedule	210812-PD-12	A

210812-PD-10-Tree schedule

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210812 - Belgard Square East

Tree ID	No.	Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m) N	NE	E	SE	S	SW	W	NW	Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m^2)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T1	1	Acer pseudoplatanus (Sycamore)	9.0	26	1	4.0		4.5		4.5		4.0		2.5		Early Mature	Structural condition Good. Physiological condition Good. Root environment - Restricted. Root damage - Mower.	30/08/2021	30.6	3.1	20-40	B2
Tree T2	1	Acer pseudoplatanus cv. (Sycamore cv.)	10.5	33	1	3.5		3.0		3.0		3.0		3.0		Early Mature	Structural condition Good. Physiological condition Good. Root environment - Restricted. Root damage - Mower.	30/08/2021	49.3	4.0	20-40	B2
Tree T3	1	Acer pseudoplatanus (Sycamore)	9.0	28	1	4.0		3.5		3.5		3.5		3.0		Early Mature	Structural condition Good. Physiological condition Good. Root environment - Restricted. Root damage - Mower.	30/08/2021	35.5	3.4	20-40	B2
Tree T4	1	Acer pseudoplatanus (Sycamore)	9.0	31	1	5.0		5.0		5.0		5.0		2.0		Early Mature	Structural condition Fair. Physiological condition Fair. Fork - Weak with included bark. Root environment - Restricted. Root damage - Mower.	30/08/2021	43.5	3.7	20-40	C2
Tree T5	1	Acer pseudoplatanus (Sycamore)	9.0	30	1	5.0		4.5		4.5		4.0		2.0		Early Mature	Structural condition Poor. Physiological condition Fair. Decay / structural defect - Localised. Fork - Weak with included bark. Root environment - Restricted. Root damage - Mower.	30/08/2021	40.7	3.6	10-20	C2
Tree T6	1	Acer pseudoplatanus (Sycamore)	8.0	30	1	4.0		3.5		3.5		3.5		2.0		Early Mature	Structural condition Fair. Physiological condition Fair. Girdling roots - Minor. Root environment - Restricted. Root damage - Mower.	30/08/2021	40.7	3.6	20-40	B2
Tree T7	1	Acer pseudoplatanus (Sycamore)	6.0	19	1	3.5		2.5		3.0		3.0		2.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Girdling roots - Minor. Root environment - Restricted. Root damage - Mower.	30/08/2021	16.3	2.3	20-40	C2
Tree T8	1	Acer pseudoplatanus (Sycamore)	6.0	18	1	2.5		2.5		2.5		2.5		2.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Root environment - Restricted. Root damage - Mower.	30/08/2021	14.7	2.2	20-40	C2

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Generated By MyTREES tree management software

210812 - Belgard Square East

Tree ID	No.	Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m) N	NE	E	SE	S	SW	W	NW	Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m^2)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T9	1	Acer pseudoplatanus (Sycamore)	6.0	14	1	2.5		2.5		2.0		2.0		2.5		Semi Mature	Structural condition Fair. Physiological condition Poor. Die-back - Throughout crown. Decline - Evident / observed. Root environment - Restricted. Root damage - Mower.	30/08/2021	8.9	1.7	0-10	U
Tree T10	1	Acer pseudoplatanus (Sycamore)	7.0	16	1	2.0		2.0		2.0		2.0		2.5		Semi Mature	Structural condition Fair. Physiological condition Fair. Root environment - Restricted. Root damage - Mower.	30/08/2021	11.6	1.9	10-20	C2
Tree T11	1	Acer pseudoplatanus cv. (Sycamore cv.)	8.0	22	1	3.0		3.0		2.5		2.5		2.5		Early Mature	Structural condition Fair. Physiological condition Fair. Root environment - Restricted. Root damage - Mower.	30/08/2021	21.9	2.6	20-40	C2
Tree T12	1	Acer pseudoplatanus (Sycamore)	7.0	18	1	2.0		2.0		2.0		2.0		2.5		Semi Mature	Structural condition Fair. Physiological condition Fair. Root environment - Restricted. Root damage - Mower.	30/08/2021	14.7	2.2	20-40	C2
Tree T13	1	Acer platanoides (Norway Maple)	8.0	20	1	2.5		2.5		2.5		2.5		3.0		Early Mature	Structural condition Fair. Physiological condition Fair. Root environment - Restricted. Root damage - Mower.	30/08/2021	18.1	2.4	20-40	B2
Tree T14	1	Acer platanoides (Norway Maple)	8.0	21	1	3.0		2.5		2.5		2.5		3.0		Early Mature	Structural condition Fair. Physiological condition Good. Root environment - Restricted.	30/08/2021	20.0	2.5	20-40	B2
Tree T15	1	Acer pseudoplatanus (Sycamore)	7.0	20	1	2.5		2.5		2.5		2.5		2.0		Early Mature	Structural condition Good. Physiological condition Good. Root environment - Restricted.	30/08/2021	18.1	2.4	20-40	B2
Tree T16	1	Tilia sp. (Lime sp.)	10.0	29	1	4.0		4.0		3.5		3.0		2.0		Early Mature	Structural condition Good. Physiological condition Good. No significant faults observed.	30/08/2021	38.0	3.5	40+	A2
Tree T17	1	Tilia sp. (Lime sp.)	9.0	30	1	4.5		4.5		4.0		3.0		2.5		Early Mature	Structural condition Fair. Physiological condition Good. Leaning trunk - Minor.	30/08/2021	40.7	3.6	40+	B2
Tree T18	1	Tilia sp. (Lime sp.)	9.0	30	1	4.5		4.5		4.5		3.0		2.5		Early Mature	Structural condition Fair. Physiological condition Good. Leaning trunk - Minor.	30/08/2021	40.7	3.6	40+	B2

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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210812 - Belgard Square East

Tree ID	No.	Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m) N	NE	E	SE	S	SW	W	NW	Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m^2)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T19	1	Tilia sp. (Lime sp.)	10.0	28	1	4.5		4.5		4.0		4.0		3.0		Early Mature	Structural condition Good. Physiological condition Good. No significant faults observed.	30/08/2021	35.5	3.4	40+	A2
Tree T20	1	Tilia sp. (Lime sp.)	10.0	27	1	4.0		4.0		3.5		3.0		2.5		Early Mature	Structural condition Good. Physiological condition Good. No significant faults observed.	30/08/2021	33.0	3.2	40+	A2
Tree T21	1	Tilia sp. (Lime sp.)	11.0	26	1	4.0		4.0		3.5		3.0		2.5		Early Mature	Structural condition Good. Physiological condition Good. No significant faults observed.	30/08/2021	30.6	3.1	40+	A2
Hedge H22	1	Fagus sylvatica (Common Beech)	2.0	10	1									0.0		Semi Mature	Structural condition Good. Physiological condition Good. Hedgerow - Neglected / overgrown. Height and stem diameter are average for group. Quantities not recorded.	30/08/2021	4.5	1.2	20-40	C2
Hedge H23	1	Fagus sylvatica (Common Beech)	2.0	10	1									0.0		Semi Mature	Structural condition Good. Physiological condition Good. Hedgerow - Neglected / overgrown. Height and stem diameter are average for group. Quantities not recorded.	30/08/2021	4.5	1.2	20-40	C2
Tree T24	1	Tilia sp. (Lime sp.)	8.0	25	1	4.0		4.0		4.0		4.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	28.3	3.0	20-40	C2
Tree T25	1	Tilia sp. (Lime sp.)	5.5	17	1	4.0		3.0		4.0		4.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	13.1	2.0	20-40	C2
Tree T26	1	Tilia sp. (Lime sp.)	5.0	14	1	2.0		2.5		3.0		3.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	8.9	1.7	20-40	C2
Tree T27	1	Tilia sp. (Lime sp.)	6.5	20	1	3.0		3.0		3.0		3.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	18.1	2.4	20-40	C2

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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Generated By MyTREES tree management software

210812 - Belgard Square East

Tree ID	No.	Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m) N	NE	E	SE	S	SW	W	NW	Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m^2)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T28	1	Tilia sp. (Lime sp.)	7.0	20	1	3.0		3.5		3.0		3.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	18.1	2.4	20-40	C2
Tree T29	1	Tilia sp. (Lime sp.)	7.0	24	1	3.5		3.5		3.0		3.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	26.1	2.9	20-40	C2
Tree T30	1	Alnus cordata (Italian Alder)	5.0	10	1	1.5		1.5		1.5		1.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	4.5	1.2	10-20	C1
Tree T31	1	Alnus cordata (Italian Alder)	5.0	10	1	1.5		1.5		1.5		1.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	4.5	1.2	10-20	C1
Tree T32	1	Alnus cordata (Italian Alder)	5.0	10	1	1.5		1.5		1.5		1.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	4.5	1.2	10-20	C1
Tree T33	1	Alnus cordata (Italian Alder)	8.0	13	1	2.0		2.0		2.0		2.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	7.6	1.6	20-40	C1
Tree T34	1	Alnus cordata (Italian Alder)	7.0	12	1	1.5		1.5		1.5		1.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	6.5	1.4	10-20	C1
Tree T35	1	Alnus cordata (Italian Alder)	7.0	10	1	1.5		1.5		1.5		1.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	4.5	1.2	10-20	C1

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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210812 - Belgard Square East

Tree ID	No.	Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m) N	NE	E	SE	S	SW	W	NW	Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m^2)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T36		Alnus cordata (Italian Alder)	6.0	10	1	1.5		1.5		1.5		1.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	4.5	1.2	10-20	C1
Tree T37	1	Alnus cordata (Italian Alder)	6.0	10	1	1.5		1.5		1.5		1.5		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Natural regeneration. Unable to inspect tree closely due to restricted access.	30/08/2021	4.5	1.2	10-20	C1
Tree T38	1	Tilia sp. (Lime sp.)	6.0	17	1	3.0		3.0		3.0		3.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	13.1	2.0	20-40	C2
Tree T39	1	Tilia sp. (Lime sp.)	6.0	17	1	3.0		3.0		3.0		3.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	13.1	2.0	20-40	C2
Tree T40	1	Tilia sp. (Lime sp.)	6.0	17	1	3.0		3.0		3.5		3.0		0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Unable to inspect tree closely due to restricted access.	30/08/2021	13.1	2.0	20-40	C2
Group G41	1 1 1 1	Buddleja davidii (Buddleja) Betula pendula (Silver Birch) Alnus cordata (Italian Alder) Acer pseudoplatanus (Sycamore)	4.0	10 AVE	1									0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Natural regeneration. Height and stem diameter are average for group. Group of young self-seeded trees and shrubs. Quantities not recorded.	30/08/2021	4.5	1.2	10-20	C1/C2

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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Generated By MyTREES tree management software

210812 - Belgard Square East

Tree ID	No.	Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m) N	NE	E	SE	S	SW	W	NW	Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m^2)	RPR (m)	Life expectancy (yrs)	BS Category
Group G42	1	Buddleja davidii (Buddleja)	4.0	10 AVE	1									0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Natural regeneration. Height and stem diameter are average for group. Group of young self-seeded trees and shrubs. Quantities not recorded.	30/08/2021	4.5	1.2	10-20	C1/C2
	1	Betula pendula (Silver Birch)																				
	1	Alnus cordata (Italian Alder)																				
	1	Acer pseudoplatanus (Sycamore)																				
Group G43	1	Buddleja davidii (Buddleja)	4.0	10 AVE	1									0.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Natural regeneration. Height and stem diameter are average for group. Group of young self-seeded trees and shrubs. Quantities not recorded.	30/08/2021	4.5	1.2	10-20	C1/C2
	1	Betula pendula (Silver Birch)																				
	1	Alnus cordata (Italian Alder)																				
	1	Acer pseudoplatanus (Sycamore)																				

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Generated By MyTREES tree management software

Table 1 of BS5837 (2012) **Cascade chart for tree quality assessment**

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	* Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) * Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline * Trees infected with pathogens of significance to health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7			**RED**
	1 Mainly arboricultural qualities	**2 Mainly landscape qualities**	**3 Mainly cultural values, including conservation**	
Trees to be considered for retention				
Category A **Trees of high quality** with an estimated remaining life expectancy of at least 40 years	Tree that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue).	Trees, groups or woodlands of particular visual importance as arboricutural and/or landscape features.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).	**GREEN**
Category B **Trees of moderate quality** with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees with material conservation or other cultural value.	**BLUE**
Category C **Trees of low quality** with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits.	Trees with no material conservation or other cultural value.	**GREY**

210812-PD-12-A - Planning Tree Works Schedule

210812 - Belgard Square East

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ID	No. / Species	BS5837 Category	Purpose of works Recommended works	Status
T1	1 *Acer pseudoplatanus* Sycamore	B2	To facilitate development Fell - Ground level.	Proposed
T3	1 *Acer pseudoplatanus* Sycamore	B2	To facilitate development Fell - Ground level.	Proposed
T6	1 *Acer pseudoplatanus* Sycamore	B2	To facilitate development Fell - Ground level.	Proposed
T9	1 *Acer pseudoplatanus* Sycamore	U	To facilitate development Fell - Ground level.	Proposed
T10	1 *Acer pseudoplatanus* Sycamore	C2	To facilitate development Fell - Ground level.	Proposed
T11	1 *Acer pseudoplatanus cv.* Sycamore cv.	C2	To facilitate development Fell - Ground level.	Proposed
H22	1 *Fagus sylvatica* Common Beech	C2	To facilitate development Fell - Ground level.	Proposed
H23	1 *Fagus sylvatica* Common Beech	C2	To facilitate development Fell - Ground level.	Proposed
T24	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T25	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T26	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T27	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T28	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T29	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T30	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed
T31	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed
T32	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed
T33	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed
T34	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed

ID	No. / Species	BS5837 Category	Purpose of works Recommended works	Status
T35	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed
T36	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed
T37	1 *Alnus cordata* Italian Alder	C1	To facilitate development Fell - Ground level.	Proposed
T38	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T39	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
T40	1 *Tilia sp.* Lime sp.	C2	To facilitate development Fell - Ground level.	Proposed
G41	1 *Acer pseudoplatanus* Sycamore	C1/C2	To facilitate development Fell - Ground level.	Proposed
	1 *Alnus cordata* Italian Alder			
	1 *Betula pendula* Silver Birch			
	1 *Buddleja davidii* Buddleja			
G42	1 *Acer pseudoplatanus* Sycamore	C1/C2	To facilitate development Fell - Ground level.	Proposed
	1 *Alnus cordata* Italian Alder			
	1 *Betula pendula* Silver Birch			
	1 *Buddleja davidii* Buddleja			
G43	1 *Acer pseudoplatanus* Sycamore	C1/C2	To facilitate development Fell - Ground level.	Proposed
	1 *Alnus cordata* Italian Alder			
	1 *Betula pendula* Silver Birch			
	1 *Buddleja davidii* Buddleja			

Appendix B - Plans

Document	Reference	Revision
Tree Survey & Constraints Plan	210812-P-10	A
Tree Removals Plan	210812-P-11	A
Tree Protection Plan	210812-P-12	A

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BS5837:2012 Tree Categorisation

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

Category B
Trees of moderate quality with an estimated life expectancy of at least 20 years

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

Category U
Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

Key

Root Protection Areas
The minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the trees viability.

Tree, Shrub or Hedgerow Group.

T10 — Reference Number for Tree, Group or Hedgerow.

Site boundary.

Title:
Tree Survey & Constraints Plan

Project:
Belgard Square East, Dublin 24

Client:
Ravensbrook Ltd.

Date: Aug 2021	Scale: 1:250 @ A1	Status: Planning	
Drawn by: CMcC	Dwg ref: 210812-P-10	Rev: A	
Checked by: CMcC			

0 5m 10m 15m 20m 25m

This drawing is to be read in conjunction with the respective arboricultural schedules and reports relevant to this project.

Where contradictions between this drawing and any other design information becomes apparent, the respective authors should be contacted immediately.

It is the responsibility of the main site contractor to check and verify all information and measurements onsite and confirm prior to the commencement of works, and to ensure that all site operatives work in accordance with respective arboricultural reports and BS5837:2012, Trees in relation to design, demolition and construction.

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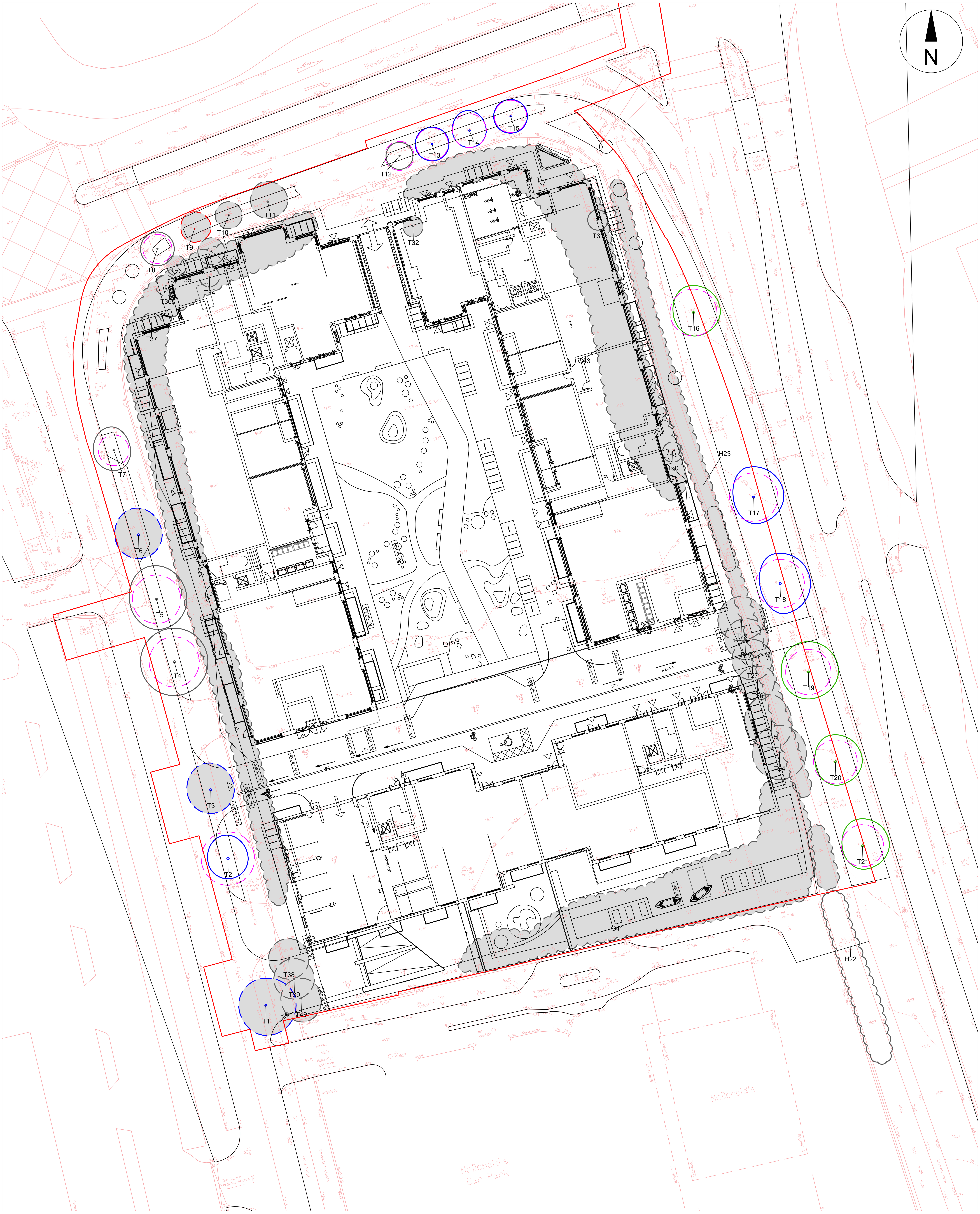

BS5837:2012 Tree Categorisation

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

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Trees of moderate quality with an estimated life expectancy of at least 20 years

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

Category U
Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

Key

Root Protection Areas
The minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the trees viability.

Tree, Shrub or Hedgerow Group.

T10 — Reference Number for Tree, Group or Hedgerow.

Site boundary.

Trees and groups to be removed to facilitate the development shown shaded grey and dashed.

Proposed layout in Black.

Existing layout in Pink.

Title: Tree Removals Plan

Client: Ravensbrook Ltd.

Project: Belgard Square East, Dublin 24

Date:	Oct 2021
Drawn by:	CMcC
Checked by:	CMcC
Scale:	1:250 @ A1
Status:	Planning
Dwg ref:	210812-P-11
Rev:	A

0 5m 10m 15m 20m 25m

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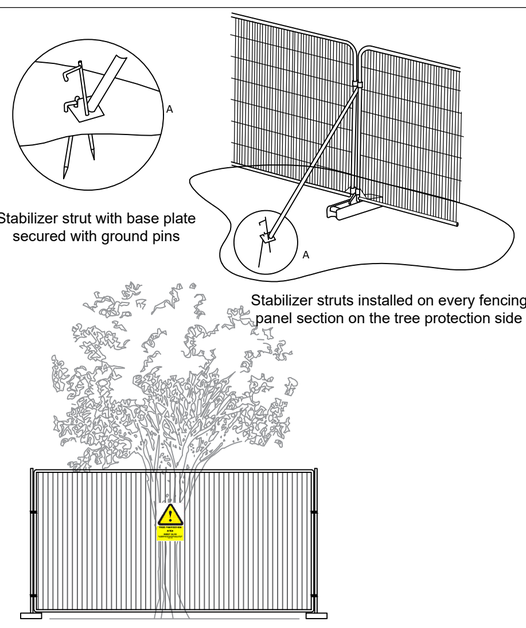
N

T8
T12
T13
T14
T15
T16
T7
T5
T4
T17
T18
T19
T20
T21
T2
G42
H22
[No Stopping]

Tree Protection Specification - Above ground stabilizing system



BS5837:2012 Figure 3

BS5837:2012 Tree Categorisation

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

Category B
Trees of moderate quality with an estimated life expectancy of at least 20 years

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

Category U
Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

Key

Root Protection Areas
The minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the trees viability.

Tree, Shrub or Hedgerow Group.

T10 — Reference Number for Tree, Group or Hedgerow.

Site boundary.

Tree Protection Zone - Protective fencing to be installed as per Specification. Designated Construction Exclusion Zone.

Excavation works within tree RPA carried out manually with the use of hand tools and under arboricultural supervision.

Refurbishment of existing hard standing. No excavation works beyond existing sub-base layer.

Title:
Tree Protection Plan

Project:
Belgard Square East, Dublin 24

Client:
Ravensbrook Ltd.

Date: Oct 2021	Scale: 1:250 @ A1	Status: Planning	
Drawn by: CMcC	Dwg ref: 210812-P-12	Rev: A	
Checked by: CMcC			

0 5m 10m 15m 20m 25m

This drawing is to be read in conjunction with the respective arboricultural schedules and reports relevant to this project.

Where contradictions between this drawing and any other design information becomes apparent, the respective authors should be contacted immediately.

It is the responsibility of the main site contractor to check and verify all information and measurements onsite and confirm prior to the commencement of works, and to ensure that all site operatives work in accordance with respective arboricultural reports and BS5837:2012, Trees in relation to design, demolition and construction.

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