



ARBORICULTURAL IMPACT ASSESSMENT

SITE LOCATION

Cherryfield Drive,
Kirkby

ISSUE DATE

14th March 2024

SEED REF

1321-AIA-V1-B

CLIENT

David Wilson Homes Northwest

ARBORICULTURAL CONSULTANCY

SEED-ARB.CO.UK

DOCUMENT CONTROL

Date	Author	Checked	Revision
17.01.2023	George Pickering <i>BSc (Hons), TechArborA</i>	SH	Rev A
14.03.2024	Sam Selwyn Dip Arb L4 (abc), <i>TechArborA</i>	SH	Rev B

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Any alteration to the application site or development proposals could change the current circumstances and may invalidate this report and any recommendations made.

The tree survey was a preliminary assessment from ground level and observations were made solely from visual inspection for the purposes of an assessment relevant to planning and development. This report is not a tree risk assessment and should not be construed as such. While every attempt has been made to provide a realistic and accurate assessment of the trees' condition at the time of inspection, it may have not been appropriate, or possible, to view all parts or all sides of every tree to fulfil the assessment criteria of a tree risk assessment.

This is not an ecological report. The Wildlife and Countryside Act 1981 (as amended) and the Conservation of Species and Habitat Regulations 2017 make it an offence to disturb nesting birds or recklessly endanger a bat or its roost. Where the presence of birds or bats is suspected, a qualified ecologist or Natural England should be contacted for advice.



Contents

1. Introduction	3
2. Planning Policy and Legislation	5
3. Baseline Tree Survey	8
4. Impact Assessment	9
5. Tree Protection	12
6. References.....	13

Appendices

Appendix 1	Site Boundary
Appendix 2	Tree Schedule
Appendix 3	Plans
Appendix 4	Tree Protection Fencing Specification
Appendix 5	Greenfix Geoweb Installation Method

Plans

Tree Constraints Plans

Ref: 1321-TCP-001-B (Overview)	Revision: B
Ref: 1321-TCP-002-B	
Ref: 1321-TCP-003-B	

Arboricultural Impact Plans

Ref: 1321-AIP-004-B	Revision: B
Ref: 1321-AIP-005-B	

Draft Tree Protection Plans

Ref: 1321-TPP-006-B	Revision: B
Ref: 1321-TPP-007-B	



1. Introduction

Background & Instruction

- 1.1.1. This report has been prepared by Sam Selwyn Dip Arb I4 (abc). TechArborA, Arboricultural Consultant at SEED Arboriculture Ltd. Sam is a Technician Member of the Arboricultural Association (AA) and is therefore required to uphold the professional and ethical standards within the AA Code of Conduct. Sam also holds the LANTRA award in Professional Tree Inspection.
- 1.1.2. This Arboricultural Impact Assessment (AIA) has been prepared by SEED Arboriculture Ltd on behalf of David Wilson Homes North West in support of a planning application for the “*Full planning application for demolition of existing buildings and erection of a residential development (Use Class C3) with associated access, landscaping, parking and infrastructure including extension to existing Cherryfield Drive car park and highways improvements to Cherryfield Drive*” at Cherryfield Drive, Kirkby (hereafter referred to as the ‘site’).
- 1.1.3. The planning application is to be submitted to Knowsley Metropolitan Borough Council (KMBC)

Purpose

- 1.1.4. The tree survey and AIA has been carried out in accordance with the recommendations outlined within British Standard BS5837:2012 ‘Trees in relation to design, demolition and construction – Recommendations’.
- 1.1.5. This AIA report:
- Provides the baseline survey data of existing trees, including a Tree Schedule and Tree Constraints Plan (TCP).
 - Evaluates the direct and indirect impacts of the Proposed Development upon the existing trees.
 - Where necessary, provides details of mitigation and tree protection, including a Draft Tree Protection Plan

Site Description

- 1.1.6. The site is large area of land located centrally in the town of Kirkby. The site is centred at UK National Grid Reference (SJ 41039 98381). Cherryfield Drive is present on the site’s northern and eastern boundary. The site surrounds Kirkby Leisure Centre to the east and a residential housing estate is present to the south. The open land has been divided into small field parcels, mature trees and groups of trees have established along the smaller internal field boundaries. Areas of dense scrub is also present. The application boundary is illustrated on the Site Location Plan (**Appendix 1**).



Reference Documents

1.1.8. **Table 1** provides a summary of documents which provide the basis for this tree survey and AIA.

Table 1 - Reference Documents

Document	Reference Number	Prepared By	Date
Topographical Land Survey	DWH.TS.04	Survey Eng Ltd.	April 2021
Planning Layout	Cherryfield Drive Planning Layout – Rev C - H0997-01	David Wilson Homes North West	August 2023

2. Planning Policy and Legislation

National Planning Policy Framework (NPPF)

2.1.1. The following paragraphs within the NPPF set out policies which guide the planning policy and decision-making process of Local Planning Authorities in relation to trees. These are:

2.1.2. **Paragraph 136**

Trees make an important contribution to the character and quality of urban environments and can also help mitigate and adapt to climate change. Planning policies and decisions should ensure that new streets are tree-lined, that opportunities are taken to incorporate trees elsewhere in developments (such as parks and community orchards), that appropriate measures are in place to secure the long-term maintenance of newly-planted trees, and that existing trees are retained wherever possible. Applicants and local planning authorities should work with highways officers and tree officers to ensure that the right trees are planted in the right places, and solutions are found that are compatible with highways standards and the needs of different users.

2.1.3. **Paragraph 180 (b & d)**

Planning policies and decisions should contribute to and enhance the natural and local environment by:

Recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;

minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;

2.1.4. **Paragraph 186**

When determining planning applications, Local Planning Authority's (LPA) should apply the following principles:

If significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternate site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;

development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments), should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest;

Development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused unless there are wholly exceptional reasons and a suitable compensation strategy exists.

Development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to improve biodiversity in and around developments should be integrated as part of their design, especially where this can secure measurable net gains for biodiversity or enhance public access to nature where this is appropriate.

Local Planning Policy

- 2.1.5. The Knowsley Local Plan Core Strategy is a Development Plan Document adopted by the council in January 2016. This Local Plan Strategy document sets out the overall vision and planning strategy for development in the borough. Policy CS21 relates specifically to trees as detailed below.

Policy CS21 - Greenspaces and Trees

Greenspace protection

2) New development which would result in the loss of urban greenspace, will not be permitted unless at least one of the following criteria are met:

- a) A surplus of provision for all types of greenspace would be maintained relative to local standards;*
- b) The land is considered unsuitable in terms of size, location or character to prevent or address individual deficiencies of different types of greenspace relative to local standards;*
- c) Appropriate mitigation is provided through replacement facilities of at least an equal quantity, quality and accessibility;*
- d) The development is required to improve greenspace provision or for ancillary facilities to support sport or recreation; or*
- e) Where the proposal relates to the loss of indoor or outdoor sports provision, and there is no evidence of future or continuing need for sports use, or alternatively only land incapable of forming a playing pitch or sporting facility is affected and its release accords with either clause 2)a) or 2)b).*

Enhancement of Natural and Semi-Natural Greenspace and Tree Protection

10) The Council will encourage proposals for new development to incorporate:

- a) Retention of existing trees, woodland, vegetation and other habitat features which offer a positive contribution to the local environment in terms of visual amenity, recreation value or biodiversity/wildlife interest;*
- b) Appropriate planting of trees, other soft landscaping and installation of habitat features for the benefit of biodiversity; and*
- c) Adequate replacement provision where tree loss is unavoidable, comprising two additional trees for every tree lost and taking account of species and size.*

Statutory Tree Protection & Designations

- 2.1.6. An enquiry made to KMBC has confirmed no trees on site are subject to a Tree Preservation Order (TPO).
- 2.1.7. The site is not located within a Conservation Area. No Ancient Woodland¹ designations are present upon or adjacent to the Site.

Felling Licence

- 2.1.8. Tree felling is restricted under the Forestry Act 1967. Under this act, there is an exemption from the need for a felling licence for “Felling trees immediately required for the purpose of carrying out development authorised by planning permission (granted under the Town and Country Planning Act 1990)”
- 2.1.9. If full planning permission is granted, then any trees which require felling to implement the approved plans are exempt from this statutory protection. Outline planning permission does not provide an exemption to the regulations that control tree felling in the Forestry Act 1967.
- 2.1.10. **All statutory controls must be reviewed in detail ahead of undertaking any tree works relevant to this arboricultural report.**

¹ Ancient woods are areas of woodland that have persisted since 1600 in England and Wales, and 1750 in Scotland. The Magic Maps website (<https://magic.defra.gov.uk/MagicMap.aspx>) has been used to search for ancient woodland on or adjacent to a site.

3. Baseline Tree Survey

- 3.1.1. The tree survey was undertaken in on 9th November 2021, by George Pickering *BSc (Hons). TechArborA*, Assistant Arboricultural Consultant at Seed Arboriculture Ltd. The survey was updated on 1st November 2022.
- 3.1.2. The tree survey was undertaken in accordance with the methodology outlined within BS5837:2012.
- 3.1.3. The locations of the trees surveyed are illustrated on the Tree Constraints Plan (TCP) (**Appendix 3**) together with details of the constraints to new development in accordance with BS5837, including:
- Tree Retention Category
 - Root Protection Areas (RPAs)
 - Tree Canopy Spreads
- 3.1.4. Details for each of the trees surveyed are provided in the Tree Schedule (**Appendix 2**), including; reference numbers, species, tree dimensions, life stage, physiological and structural condition, and retention category.

Tree Survey Summary

Trees

- 3.1.5. The survey recorded 63no. individual trees, comprising of 4no category A, 10no. category B, 39no. category C and 10no. category U retention value.

Groups

- 3.1.6. The survey recorded 52no. groups of trees, comprising of 3no category A, 7no. category B, 39no. category C and 3no. category U retention value.

Hedgerows

- 3.1.7. No hedgerows were recorded during the survey.

4. Impact Assessment

- 4.1.1. The impact of the proposed development upon existing trees is illustrated on the Arboricultural Impact Plans (**Appendix 3**).
- 4.1.2. The design has sought to incorporate the existing trees and minimise the requirement for tree removal. However, due to the building and engineering requirements there is conflict with trees which is considered unavoidable.
- 4.1.3. Consideration has been given to the practical requirements of construction and where possible, solutions such as above-ground construction can be implemented to reduce the impact upon retained trees. These special measures will be implemented wherever feasible.
- 4.1.4. BS5837:2012 states that competing needs for development mean that trees are only a single factor requiring consideration within the wider planning balance. Care should be taken to avoid misplaced tree retention which can lead to excessive pressure throughout the development phase or post-development once land and/or properties are inhabited.
- 4.1.5. All trees proposed for removal are illustrated with a red canopy outline on the Arboricultural Impact Plans at **Appendix 3**.
- 4.1.6. Table 2 details the tree and group removals required to implement the Proposed Development.

Table 2 – Tree Removal for Proposed Development

	Retention Category				Total
	A	B	C	U	
Trees to be removed for Proposed Development	T44, T52, T53, T54	T2, T25, T27, T35, T38, T42, T59, T61	T1, T3, T4, T5, T6, T7, T10, T12, T13, T14, T16, T20, T21, T22, T23, T24, T26, T28, T29, T33, T34, T36, T37, T39, T40, T41, T43, T46, T47, T48, T49, T50, T51, T55, T57, T58, T62, T63	T8, T9, T11, T15, T17, T18, T30, T32, T45, T56	57
Groups to be removed for Proposed Development	G36, G39, G40	G17, G21, G23, G24, G30, G32, G38	G3, G4, G5 G7, G9, G10, G13, G14, G15, G16, G18, G20, G25, G26, G27, G28, G29, G31, G33, G34, G35, G37, G41, G42, G46, G50, G51, G52	G8, G12, G19	39
Trees or group to be part removed for Proposed Development	-	-	G1, G42, G48	-	3-part removal
Total	7	14	62 (+3-part removal)	13	96 (+3-part removal)

Mitigation

- 4.1.7. To mitigate for the tree loss detailed above, soft landscaping proposals should include planting of a range of suitable tree species including large canopy trees in areas of open space.
- 4.1.8. As a minimum the landscaping proposals should include the provision to replant two trees for ever tree lost to development in line with Policy CS21 of the Knowsley Local Plan Core Strategy.
- 4.1.9. The resulting additional species will provide much needed diversity among tree species for futureproofing against pests, diseases and the effects of climate change.

Root Protection Areas (RPAs)

- 4.1.10. The RPA is an area equivalent to a circle with a radius 12 times the diameter of the trees measured at 1.5 metres for single stemmed trees. For trees with more than one stem, one of two calculation methods should be used. In all cases, the stem diameter(s) should be measured in accordance with Annex C, and the RPA should be guided from Annex D of BS5837:2012.
- 4.1.11. The RPA is an area in which no ground works should be undertaken without due care in relation to the retained tree(s), to avoid soil compaction, changes in levels or soil contamination which could alter the trees condition and/or stability. The shape of the RPA and its exact location will depend upon arboricultural considerations and ground conditions.
- 4.1.12. The RPA for the trees has been calculated as prescribed by BS5837:2012 and are shown in relation to the Proposed Development on the Arboricultural Impact Plan at **Appendix 3**.

New RPA Incursions

The proposed Development has been designed around the existing tree constraints however it has resulted in one new RPA incursion as summarised below:

- **T60 (Sycamore)**- New incursion of 12m² within a total of 92m² RPA- 13% new incursion for the proposed footpath.

Mitigation – Subject to confirmation during detailed design - install no dig tree root protection (Greenfix Geoweb or similar) / supervised working within RPA.

- 4.1.13. The impact of this RPA incursion has been considered acceptable subject to mitigation measures being specified in an Arboricultural Method Statement (AMS) and the guidance given in the tree protection plan (TPP).
- 4.1.14. Therefore, this has been considered acceptable subject to the following of the mitigation measures set out within this AIA and the guidance given in the tree protection plan (TPP).

Tree Canopies & Shade

- 4.1.15. The distribution of tree canopy cover on and within influencing distance of the site is illustrated on the TCP (**Appendix 3**). The Tree Schedule lists the vertical clearance from site ground level to significant tree branching of individual trees. This measurement informs the impacts of accessibility and development beneath tree canopies.
- 4.1.16. If considered appropriate the principal tree shadow constraints can be shown on the TCP and are plotted in accordance with BS5837 using the current height of surveyed trees.

- 4.1.17. Where shading is unavoidable, the potential adverse impact of shadowing should also be reviewed on balance with the positive aspects of retaining a degree of canopy shade. BS5837:2012 (para. 5.3.4, a) NOTE 1) states that “shading can be desirable to reduce glare or excessive solar heating, or to provide comfort during hot weather. The combination of shading, wind speed/turbulence reduction and evapotranspiration effects of trees can be utilised in conjunction with the design of buildings and spaces to provide local microclimatic benefits”.
- 4.1.18. The impact of shade upon the Proposed Development is not considered to be significant or negative.

Facilitation Tree Pruning

- 4.1.19. In order to provide sufficient clearance for construction and future use of the Proposed Development, two tree groups will require minor pruning work to be carried out:
- G2- Cut back the lateral spread of the canopy around new road/driveways and units B-41 & B-26 to prevent conflict.
 - G22- Cut back lateral spread of canopy as required to prevent conflict with proposed new road.
 - G42- Cut back canopy of tree group to the boundary to prevent encroachment and conflict with unit D218.
- 4.1.20. Further requirements for facilitation pruning may be identified during the course of construction and should be addressed by ongoing liaison with the Project Arboriculturist.

Future growth

- 4.1.21. Due to the location of retained trees, future growth of trees is not considered to be an issue to the Proposed Development.
- 4.1.22. Minor pruning of lateral branches will address any issues where the canopy of trees encroaches towards the proposed buildings.

5. Tree Protection

- 5.1.1. An overview of the recommended tree protection measures has been provided within this AIA. A Tree Protection Plan (TPP) is provided at **Appendix 3**.
- 5.1.2. Full details of tree protection measures including construction methods, schedule of arboricultural supervision and specific forms of tree protection should be provided within a detailed Arboricultural Method Statement following planning approval.
- 5.1.3. To ensure all tree protection measures are implemented, arboricultural supervision should be undertaken by an appointed Project Arboriculturist (PA). The PA will be a suitably qualified arboriculturist appointed by the client / contractor / other party responsible for implementation of tree protection measures.

Tree Protection Fencing

- 5.1.4. The principal protection for the retained trees is provided by Tree Protection Fencing (TPF) positioned to form a Construction Exclusion Zone (CEZ) around retained trees. No access should be allowed to the other than for operations specified in the approved documents or those agreed with the LPA later.
- 5.1.5. The indicative location of Tree Protection Fencing (TPF) is illustrated on the Tree Protection Plans at **Appendix 3**.
- 5.1.6. The CEZ must be in place prior to the commencement of construction work on site. The TPF must not be moved or relocated without approval from the Project Arboriculturist and, where necessary, approval from the Local Planning Authority.
- 5.1.7. The TPF specification should be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees.
- 5.1.8. The most common specification as illustrated in BS5836:2012 Figure 3b (**Appendix 4**) comprises welded mesh panels (Heras Fencing) on rubber or concrete feet, the panels should be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from within the fence. The distance between fence couplers should be at least 1m and should be uniform throughout the fence. The panels should be supported on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins. Where the fencing is to be erected on retained hard surfacing or it is otherwise unfeasible to use ground pins, e.g. due to the presence of underground services, the stabilizer struts should be mounted on a block tray.
- 5.1.9. Weatherproof signage will be attached to the fencing with words such as 'Construction Exclusion Zone – No Access' (signage example at **Appendix 4**).
- 5.1.10. At the end of the project the fence will be removed only after confirmation by the Project Arboriculturist and the Council that this is appropriate.

Tree Root Protection (Cellular)

- 5.1.11. To facilitate the installation of new pavement within the RPA of two retained trees, a cellular confinement tree root protection system is advised. The location of this Tree Root Protection is shown on the Tree Protection Plan at **Appendix 3**.

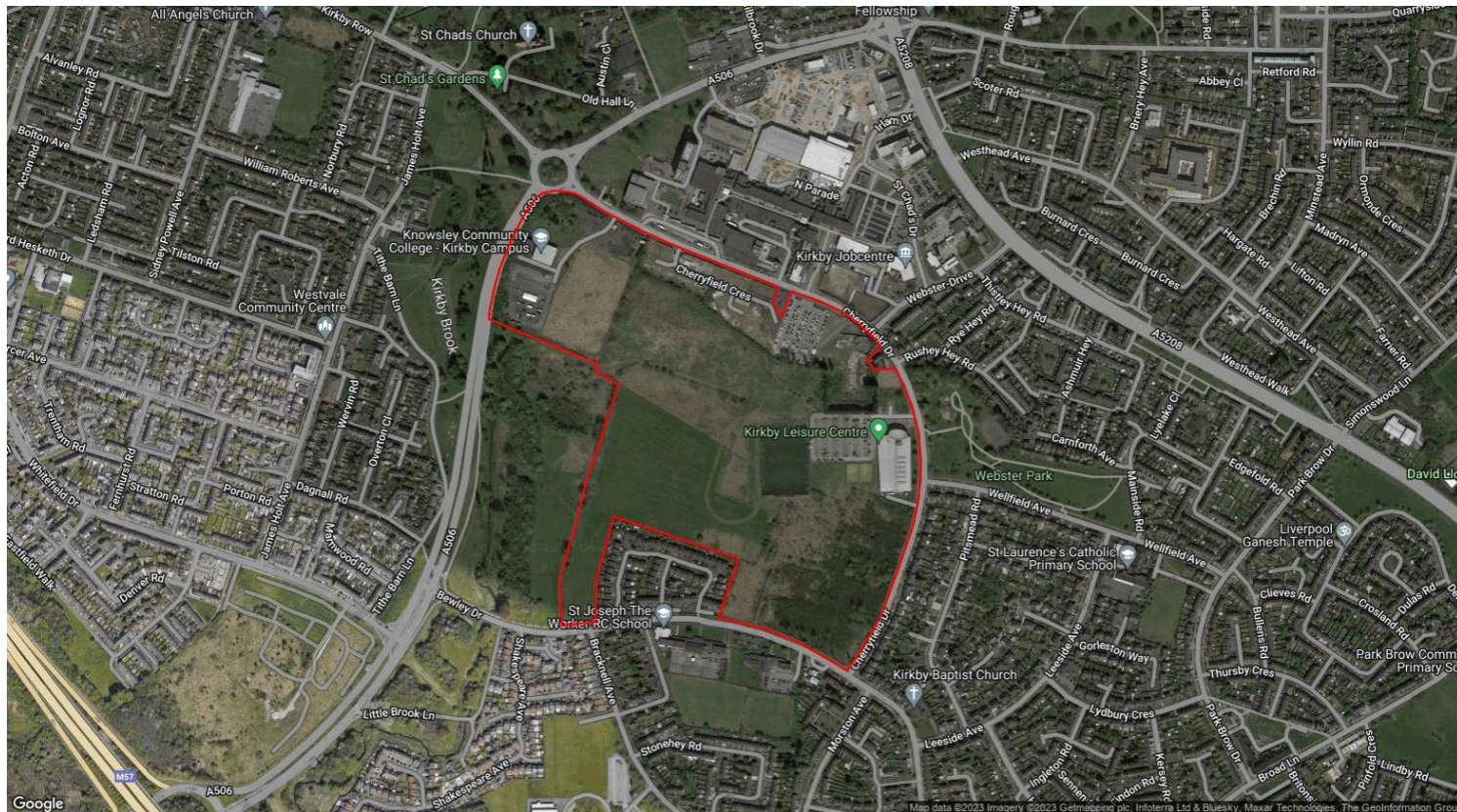


- 5.1.12. For the purposes of this AIA, Greenfix Geoweb has been recommended. The final specification should be confirmed within an Arboricultural Method Statement.
- 5.1.13. For this application, the depth of system to be used is:
- 75mm – Suitable for pedestrian foot traffic and cycleways (up to 1t gross weight).
- 5.1.14. The top surface for all areas will be a permeable block paving.
- 5.1.15. The manufacturers recommended method statement for installation of the system can be found at **Appendix 5**.
- 5.1.16. The appointed Project Arboriculturist will be on site throughout the installation of the Tree Root Protection system.

6. References

- 6.1.1. British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction - Recommendation'
- 6.1.2. British Standard 3998:2010 'Tree work – Recommendations'
- 6.1.3. BS8545:2014 Trees: from nursery to independence in the landscape – Recommendations
- 6.1.4. National Planning Policy Framework (NPPF) 2023
- 6.1.5. The Forestry Act 1967
- 6.1.6. The Town and Country Planning Act 1990
- 6.1.7. The Town and Country Planning (Tree Preservation) (England) Regulations 2012.

Appendix 1 – Site Location Plan



Appendix 2 – Tree Schedule

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
01/11/2022	David Wilson Homes North West	Cherryfields Drive, Kirkby	1321-TS-001-C

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T1	Common alder	<i>Alnus gultinosa</i>	6	130	2	2	2	2	1	S/Mat	Good	Fair	Small alder tree likely self seeded from main group. Tree is part of wider group but set inside the fence line. Tree is relatively young and has good future potential. Unlikely to be retained due to location near existing tennis courts.	Remove for Proposed Development	C2	7	1.50
T2	Sycamore	<i>Acer pseudoplatanus</i>	12	560	4	5	4	5	2.5	E/Mat	Fair	Fair	Sycamore tree located on grassy area adjacent to main building on site. Tree has good form and few defects. Some epicormic growth at base. Tree offers good amenity value, strong future potential.	Remove for Proposed Development	B1	137	6.60
T3	Wild cherry	<i>Prunus avium</i>	5	200	3	3	3	3	2.5	E/Mat	Good	Fair	Small car park tree, part of site ornamental planting. Tree is located on grassy verge. Good future value	Remove for Proposed Development	C1	18	2.40
T4	Hornbeam	<i>Carpinus betulus</i>	8	180	4	4	4	4	0.5	E/Mat	Good	Fair	Small car park tree, part of site ornamental planting. Tree is located on grassy verge. Good future value	Remove for Proposed Development	C1	14	2.10
T5	Wild cherry	<i>Prunus avium</i>	10	250	5	5	5	5	2	E/Mat	Good	Fair	Car park tree, part of site ornamental planting. Tree is located on grass verge. Good future potential.	Remove for Proposed Development	C1	28	3.00
T6	Wild cherry	<i>Prunus avium</i>	6	220	6	6	6	6	0.5	E/Mat	Good	Fair	Car park tree, part of site ornamental planting. Tree is located on grass verge. Good future potential.	Remove for Proposed Development	C1	23	2.70
T7	Wild cherry	<i>Prunus avium</i>	3	220	3	3	3	3	1.5	E/Mat	Good	Fair	Small car park tree, part of site ornamental planting. Tree is located on grass verge. Tree has some small amounts of decay within main stem. Limited future value.	Remove for Proposed Development	C1	23	2.70
T8	Bird cherry	<i>Prunus padus</i>	3	120	3	3	3	3	2	E/Mat	Good	Fair	Small car park tree, part of site ornamental planting. Tree is located within planting pit inside car park. Unlikely to be retained due to location.	Remove for Proposed Development	U	7	1.50
T9	Bird cherry	<i>Prunus padus</i>	3	130	3	3	3	3	2	E/Mat	Good	Fair	Small car park tree, part of site ornamental planting. Tree is located within planting pit inside car park. Tree stake and tie still in situ, tree is heavily growing into stake. Unlikely to be retained due to location.	Remove for Proposed Development	U	7	1.50
T10	Wild cherry	<i>Prunus avium</i>	4	320	5	5	5	3	2	Mat	Fair	Fair	Squat mature cherry tree within grassy area. Tree has rubble and old fence posts near base. Part of the tree is obscured by dense ivy restricting detailed assessment.	Remove for Proposed Development	C1	48	3.90
T11	Rowan	<i>Sorbus aucuparia</i>	7	180	5	4	3	3	1	E/Mat	Fair	Fair	Small rowan tree within scrubby area. Tree has dense bramble growth at base restricting detailed assessment of tree. Brick wall to south and west of the tree. Due to location tree is unlikely to be retained.	Remove for Proposed Development	U	14	2.10

BS5837:2012 TREE SCHEDULE

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Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T12	Leyland cypress	<i>Cupressocyparis leylandii</i>	8	180	3	3	3	3	0.5	E/Mat	Fair	Fair	Small cypress tree within scrubby area. Dense bramble growth at base restricting detailed assessment of tree. Attributes estimated. Due to location tree has limited retention potential. Location estimated as not present on topographical survey.	Remove for Proposed Development	C1, 2	14	2.10
T13	Whitebeam	<i>Sorbus aria</i>	7	240	5	5	4	5	1.5	E/Mat	Fair	Fair	Tree located within scrubby area. Tree has moderate form with tight included unions and a crowded canopy. Due to location tree is unlikely to be retained.	Remove for Proposed Development	C1, 2	28	3.00
T14	Whitebeam	<i>Sorbus aria</i>	9	280	5	5	5	5	1.5	E/Mat	Fair	Fair	Tree located within scrubby area. Tree has moderate form with tight included unions and a crowded canopy. Due to location tree is unlikely to be retained.	Remove for Proposed Development	C1, 2	34	3.30
T15	Sycamore	<i>Acer pseudoplatanus</i>	6	230	5	5	5	3	1	E/Mat	Fair	Poor	Small scrubby sycamore on fence boundary. Tree is heavily growing into fence. Tree has unstable unions and growth. Due to location tree is unlikely to be retained.	Remove for Proposed Development	U	23	2.70
T16	Silver maple	<i>Acer saccharinum</i>	13	885	7	8	10	5	0.5	Mat	Fair	Declining	Very large multistemmed tree. Tree is multistemmed from base with large included unions. Structural unions may be prone to failure as tree matures so future management / reduction should be considered. Several branches are growing into steel fence next to base. Unable to access part of the tree due to dense bramble. Good future potential.	Remove for Proposed Development	C1	346	10.50
T17	Silver maple	<i>Acer saccharinum</i>	6	300	5	5	5	5	0.5	Dead	Dead	Poor	Dead failed tree. Tree lying on ground.	Remove failed tree.	U	41	3.60
T18	Sycamore	<i>Acer pseudoplatanus</i>	7	294	3	3	3	3	0.5	Dead	Dead	Poor	Standing dead tree.	Remove dead tree.	U	41	3.60
T19	White poplar	<i>Populus alba</i>	18	200	2	2	2	2	1	Mat	Fair	Declining	Tall poplar on edge of group. Tree is of moderate quality and slowly declining. Tree can be easily replaced. Little individual value.	No works necessary.	C2	18	2.40
T20	Goat willow	<i>Salix caprea</i>	8	727	7	5	6	6	0.5	Mat	Fair	Fair	Mature multistemmed goat willow located on shallow embankment next to well trodden path. Tree has multiple tight included unions at base forming large stems and likely unstable unions. Tree has limited retention potential remaining.	Remove for Proposed Development	C1	238	8.70

BS5837:2012 TREE SCHEDULE

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Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T21	Goat willow	<i>Salix caprea</i>	7	280	6	5	5	5	0.5	E/Mat	Fair	Fair	Goat willow, part of the group located on shallow grassy slope. Tree has dense ivy restricting detailed assessment. Tree splits at approx. 1.5m to form multistemmed union, with multiple tight included unions. Tree has moderate retention potential.	Remove for Proposed Development	C1, 2	34	3.30
T22	Goat willow	<i>Salix caprea</i>	9	378	6	5	5	4	0.5	E/Mat	Fair	Fair	Goat willow, part of the group located on shallow grassy slope. Tree bifurcated at base to form a twin stemmed union, with a tight included unions. Tree has moderate retention potential.	Remove for Proposed Development	C1, 2	64	4.50
T23	Goat willow	<i>Salix caprea</i>	9	563	6	6	6	6	0.5	E/Mat	Fair	Fair	Goat willow, part of the group located on shallow grassy slope. Tree is multistemmed from base with multiple tight included unions. Tree has moderate retention potential.	Remove for Proposed Development	C1, 2	150	6.90
T24	Goat willow	<i>Salix caprea</i>	9	847	7	6	6	7	0.5	E/Mat	Fair	Fair	Goat willow located on shallow grassy slope. Tree is multistemmed from base with multiple tight included unions. Tree canopy touches ground at all sides. Tree has moderate retention potential.	Remove for Proposed Development	C1, 2	327	10.20
T25	Grey poplar	<i>Populus canescens</i>	20	1050	9	11	10	11	4	Mat	Good	Fair	Large mature poplar tree located on grassy area to the south of car park. Tree is well formed and has a good shape. Dense ivy on main stem restricting detailed assessment of tree. Tree has strong retention value, however, due to size of tree and species characteristics, future management options / reduction should be considered.	Remove for Proposed Development	B1, 2	499	12.60
T26	Lombardy poplar	<i>Populus nigra 'Italica'</i>	22	780	4	4	4	4	5	Mat	Fair	Fair	Large mature poplar tree on grass area next to car park. Tree is well formed and has good shape. Due to size of tree and species characteristics, future management options / reduction should be considered. Good future potential.	Remove for Proposed Development	C1, 2	272	9.30
T27	Grey poplar	<i>Populus canescens</i>	20	1000	9	9	10	10	8	Mat	Good	Fair	Large mature poplar tree located on grassy area to the south of car park. Tree is well formed and has a good shape. Unable to access base of tree due to dense vegetation and bramble. Attributes estimated. Dense ivy on main stem restricting detailed assessment of tree. Tree has strong retention value, due to size of tree and species characteristics, future management options / reduction should be considered.	Remove for Proposed Development	B1, 2	452	12.00

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
01/11/2022	David Wilson Homes North West	Cherryfields Drive, Kirkby	1321-TS-001-C

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T28	Goat willow	<i>Salix caprea</i>	6	343	6	6	6	5	0.5	E/Mat	Fair	Fair	Scrubby multistemmed tree on edge of site boundary. Tree offers good screening value with adjacent public open space. Tree has little individual value.	Remove for Proposed Development	C2	55	4.20
T29	White poplar	<i>Populus alba</i>	15	353	2	8	9	7	5.5	E/Mat	Fair	Fair	Tall poplar tree on edge of site boundary. Tree is slightly suppressed to north west by neighbouring tree. Tree offers good screening value with adjacent public open space. Unable to access base due to dense bramble and vegetation. Attributes estimated. Tree has good future potential.	Remove for Proposed Development	C1, 2	55	4.20
T30	White poplar	<i>Populus alba</i>	14	353	3	11	7	3	7.5	E/Mat	Declining	Poor	Tall poplar tree on edge of site boundary. Tree has a 10 degree lean from base towards south. Tree is heavily dying back and has a limited retention potential. Low value tree. Unable to access base due to dense bramble and vegetation. Attributes estimated.	Remove for Proposed Development	U2	55	4.20
T31	White poplar	<i>Populus alba</i>	20	439	5	7	6	5	4	Mat	Good	Fair	Large poplar tree. Located on outside of rail fence, confirm ownership. Tree is a good specimen with good vigour. Tree canopy encroaches on site by approx 6m. Good screening value for new development.	No works necessary.	B1	92	5.40
T32	White poplar	<i>Populus alba</i>	6	150	3	3	3	3	1.5	S/Mat	Declining	Fair	Small poplar tree on edge of site. Tree has significant damage to main stem and is severely dying back within canopy. Limited retention potential remaining.	Remove for Proposed Development	U	10	1.80
T33	Pedunculate oak	<i>Quercus robur</i>	4	221	4	4	4	4	0.5	S/Mat	Good	Fair	Small multi stemmed oak tree on edge of site. Tree has good future potential and offers good screening with adjacent public space. Tree currently has limited individual value due to locataion.	Remove for Proposed Development	C1, 2	23	2.70
T34	Goat willow	<i>Salix caprea</i>	7	604	5	5	5	5	0.5	E/Mat	Fair	Fair	Multistemmed willow tree within grassy field. Tree is scrubby and has a low canopy. Limited retention value.	Remove for Proposed Development	C1	163	7.20
T35	Norway maple	<i>Acer platanoides</i>	9	380	6	5	5	4	3	E/Mat	Good	Good	Maple tree within overgrown scrubby area. Tree is a prominent feature of the landscape and is a good quality tree. Tree has good amenity value. Good future potential.	Remove for Proposed Development	B1	64	4.50
T36	Rowan	<i>Sorbus aucuparia</i>	5	170	3	3	3	3	2	E/Mat	Fair	Fair	Rowan tree located within overgrown scrubby area. Tree stands out from most of its neighbouring trees but has limited value to wider area. Tree is easily replaced.	Remove for Proposed Development	C1, 2	14	2.10
T37	Swedish whitebeam	<i>Sorbus intermedia</i>	6	390	5	5	4	4	2	Mat	Good	Fair	Mature sorbus within scrubby group. Tree has good shape and offers good amenity value. Good future potential.	Remove for Proposed Development	C1	72	4.80

BS5837:2012 TREE SCHEDULE

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Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T38	Norway maple	<i>Acer platanoides</i>	12	300	5	5	5	5	3	E/Mat	Good	Good	Maple tree located on edge of wider scrub. Tree is dominant in local landscape. Good aesthetic value and offers wider value to group. Strong future potential.	Remove for Proposed Development	B1, 2	41	3.60
T39	Swedish whitebeam	<i>Sorbus intermedia</i>	12	280	4	2	4	4	1.5	E/Mat	Fair	Fair	Stands within dense scrub and ground cover. Unable to access tree due to dense vegetation and bramble. Attributes estimated. Limited future potential.	Remove for Proposed Development	C2	34	3.30
T40	Norway maple	<i>Acer platanoides</i>	13	290	5	5	5	5	2	E/Mat	Good	Fair	Large tree on edge of group. Dense vegetation and bramble at base, no access to tree. Attributes estimated. Tree has good form and good future potential.	Remove for Proposed Development	C1	41	3.60
T41	Norway maple	<i>Acer platanoides</i>	11	460	5	5	5	5	0.5	E/Mat	Good	Fair	Large tree on edge of scrub. Good visibility from main road and tree offers screening with adjacent road. Tree has good form and good future potential.	Remove for Proposed Development	C1	92	5.40
T42	Common lime	<i>Tilia x europaea</i>	13	570	7	6	6	7	0.5	Mat	Good	Good	Large lime tree on edge of scrubby group next to main road. Tree has good form and low canopy reaching to the ground on all sides. Tree offers good aesthetic value and screening with adjacent road. Strong future potential.	Remove for Proposed Development	B1	150	6.90
T43	Common apple	<i>Malus domestica</i>	3	120	3	3	3	3	1.5	Mat	Fair	Fair	Mature apple tree within scrub group. Tree has limited wider value.	Remove for Proposed Development	C1, 2	7	1.50
T44	Italian alder	<i>Alnus cordata</i>	20	680	6	7	8	7	1.5	Mat	Good	Good	Large alder tree on edge of scrub. Tree is dominant over neighbouring scrub and consistent with neighbouring group of high quality trees. Tree has good form and shape offering good amenity value.	Remove for Proposed Development	A1	206	8.10
T45	Field maple	<i>Acer campestre</i>	7	280	1	4	1	1	0	Dead	Dead	Poor	Failed tree lays on ground.	Remove for Proposed Development	U	34	3.30
T46	Manna ash	<i>Fraxinus ornus</i>	15	460	7	6	7	6	1	Mat	Fair	Fair	Large ash tree on edge of site. Tree has early stages of ash dieback present. Limited future potential due to presence of ash dieback. Currently offers good screening with adjacent main road.	Remove for Proposed Development	C1, 2	92	5.40
T47	Rowan	<i>Sorbus aucuparia</i>	4	187	4	4	4	4	0.5	E/Mat	Fair	Fair	Small rowan tree on edge of site adjacent to main road. Tree offers limited value to wider site. Easily replaced.	Remove for Proposed Development	C1	14	2.10
T48	Fastigate oak	<i>Quercus robur</i> 'Fastigiata'	18	430	3	3	3	3	0.5	E/Mat	Fair	Fair	Stands on boundary of site. Tree has large amounts of dieback on eastern lower canopy. Limited retention value. Tree easily replaced.	Remove for Proposed Development	C1	82	5.10

BS5837:2012 TREE SCHEDULE

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Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
T49	Fastigate oak	<i>Quercus robur</i> 'Fastigiata'	11	250	2	2	2	2	2	E/Mat	Fair	Fair	Stands on boundary of site. Tree offers some screening with adjacent main road. Tree has good form and good future value.	Remove for Proposed Development	C1	28	3.00
T50	Common apple	<i>Malus domestica</i>	6	230	4	4	4	4	1.5	Mat	Fair	Fair	Mature apple tree within scrub. Limited future potential. No access to base due to dense vegetation and bramble.	Remove for Proposed Development	C2	23	2.70
T51	Sycamore	<i>Acer pseudoplatanus</i>	13	391	6	6	6	6	3	Mat	Fair	Fair	Mature sycamore tree within scrub. Limited future potential. No access to base due to dense vegetation and bramble.	Remove for Proposed Development	C2	72	4.80
T52	Italian alder	<i>Alnus cordata</i>	16	580	6	6	6	6	0.5	Mat	Good	Good	Large alder tree on edge of scrubby group. Tree has very strong future potential. Dense ivy on main stem restricting detailed assessment of tree.	Remove for Proposed Development	A1	150	6.90
T53	Fastigate oak	<i>Quercus robur</i> 'Fastigiata'	20	350	3	3	3	3	2	E/Mat	Good	Good	Tree is present on edge of site. Tree offers some screening with adjacent main road. Tree has good form and good future value.	Remove for Proposed Development	A1	55	4.20
T54	Italian alder	<i>Alnus cordata</i>	20	590	8	8	8	8	0.5	Mat	Good	Good	Large alder tree on edge of scrubby group. Tree offers good screening with adjacent road. Tree has a low canopy on all sides. Good retention potential.	Remove for Proposed Development	A1	163	7.20
T55	Italian alder	<i>Alnus cordata</i>	20	500	6	5	5	6	0.5	Mat	Declining	Fair	Large alder tree on edge of scrubby group. Tree offers good screening with adjacent road. Tree is declining and dying back within canopy. Limited retention potential remaining.	Remove for Proposed Development	C1	113	6.00
T56	Fastigate oak	<i>Quercus robur</i> 'Fastigiata'	18	400	2	2	2	2	2.5	Mat	Declining	Fair	Tree is declining within canopy. Large amounts of deadwood present. Limited value remaining.	Remove for Proposed Development	U	72	4.80
T57	Lombardy poplar	<i>Populus nigra</i> 'Italica'	23	1100	7	6	4	5	6	Mat	Fair	Fair	Large mature poplar tree standing within wider group of scrub. Tree is a prominent feature of the landscape but has limited overall value. Dense ivy on mainstem and bramble at base restricting detailed assessment of tree.	Remove for Proposed Development	C1	547	13.20
T58	Lombardy poplar	<i>Populus nigra</i> 'Italica'	24	1000	4	5	4	4	6	Mat	Fair	Fair	Large mature poplar tree standing within boundary hedge line. Tree is a prominent feature and is consistent with wider poplar group. Dense ivy on main stem restricting detailed assessment of tree. Large stem wound on north west side, indicating possible presence of decay within main stem. Tree has limited retention potential.	Remove for Proposed Development	C1	452	12.00
T59	Silver birch	<i>Betula pendula</i>	12	450	6	6	6	6	2.5	Mat	Fair	Fair	Off site large silver birch. No access to base due to dense bramble. Attributes estimated.	Remove for Proposed Development	B1	92	5.40
T60	Sycamore	<i>Acer pseudoplatanus</i>	11	450	6	6	6	6	2	E/Mat	Good	Fair	Stands within grass landscape area outside leisure centre.	No works necessary.	B1	92	5.40

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					N	E	S	W									
T61	Field maple	<i>Acer campestre</i>	12	280	4	4	4	5	2	E/Mat	Good	Fair	-	Remove for Proposed Development	B1	34	3.30
T62	Wild cherry	<i>Prunus avium</i>	8	245	3	3	3	3	2	E/Mat	Fair	Fair	Scrubby tree, multi stemmed at base.	Remove for Proposed Development	C1	28	3.00
T63	Swedish whitebeam	<i>Sorbus intermedia</i>	8	210	3	3	3	3	2	E/Mat	Fair	Fair	-	Remove for Proposed Development	C1	18	2.40
G1	Norway maple, Common hazel, Common ash, Goat willow		Min 1 - Max 12	Min 100 - Max 360	See Associated Plans.				0.5	E/Mat	Fair	Fair	Boundary screening group with dense understory. Trees are predominantly ash and are part of the ornamental planting on site. Early signs of ash dieback present but unable to determine how advanced the infection is at time of survey due to autumn leaf fall. Trees have a limited long term retention potential.	Part removal for Proposed Development	C2	See Associated Plans.	
G2	Sycamore, Common alder, Silver birch, Common hazel, Common ash, Wild cherry, Pedunculate oak, White willow		Min 1 - Max 15	Ave 260	See Associated Plans.				0.5	E/Mat	Fair	Fair	Mixed broadleaf group on roadside adjacent to site. Trees appear off site but unable to confirm at time of survey. Dense vegetation and fences/COVID test site restrictions preventing detailed inspection as unable to access majority of group. Attributes estimated. Good range of trees and well established, trees would benefit from a thinning as part of management plan. Trees offer good screening value with adjacent busy road.	Cut back canopy as required	C2	See Associated Plans.	
G3	Goat willow		Ave 9	Ave 180	See Associated Plans.				0.5	E/Mat	Fair	Fair	Scrubby group of willow trees within a pond. Trees are stand lower than the neighbouring group. Trees offer good amenity and wildlife value to site. Good future potential.	Remove for Proposed Development	C2	See Associated Plans.	
G4	Norway maple, Silver birch, Himalayan birch, Scots pine, Rowan		Min 3 - Max 9	Min 70 - Max 320	See Associated Plans.				0.5	E/Mat	Fair	Fair	Group located on top of raised mound. Trees likely part of ornamental planting on site with some tree stakes still in place at time of survey. Majority of trees have established well with a couple of dead specimens located within the group. Trees offer good amenity value and screening with adjacent road. Good future value.	Remove for Proposed Development	C2	See Associated Plans.	
G5	Common ash		Ave 10	Ave 280	See Associated Plans.				2.5	E/Mat	Fair	Fair	Group of ash tree planted along side boundary fence adjacent to main road. Trees have early onset of ash dieback but unable to determine extent of infection due to autumn leaf fall. Trees offer good screening value but have a limited retention potential.	Remove for Proposed Development	C2	See Associated Plans.	

BS5837:2012 TREE SCHEDULE

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Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)	Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N E S W									
G6	London plane		Ave 8	Ave 240	See Associated Plans.	3.5	E/Mat	Fair	Fair	Off site street planting.	No works necessary.	C2		See Associated Plans.
G7	Scots pine		Ave 9	Ave 180	See Associated Plans.	1	E/Mat	Good	Good	Group of pine trees along side car park boundary fence line. Trees stand within a grass verge next to brick wall, if retained care will be needed when demolition of wall occurs. Trees offer good screening value for new development. Good future potential.	Remove for Proposed Development	C2		See Associated Plans.
G8	Rowan		Ave 7	Min 160 - Max 200	See Associated Plans.	0.5	E/Mat	Fair	Fair	Group of two Rowans within scrubby area. Trees have dense bramble growth at base restricting detailed assessment of trees. Attributes estimated. Fence is present within between the trees. Trees are unlikely to be retained in future site uses.	Remove for Proposed Development	U		See Associated Plans.
G9	Sycamore, Wild cherry		Min 7 - Max 9	Min 180 - Max 240	See Associated Plans.	0.5	E/Mat	Fair	Fair	Group of one cherry and one sycamore. Trees are scrubby in nature and likely self seeded on site. Fence is present between the two trees. Trees are unlikely to be retained during construction of development.	Remove for Proposed Development	C2		See Associated Plans.
G10	Whitebeam		Ave 9	Ave 280	See Associated Plans.	0.5	E/Mat	Fair	Fair	Group of two scrubby sorbus trees. Unable to access base due to dense bramble and scrub. Attributes estimated. Trees are unlikely to be retained due to location.	Remove for Proposed Development	C2		See Associated Plans.
G11	London plane		Ave 9	Ave 240	See Associated Plans.	3	E/Mat	Fair	Fair	Off site street planting.	No works necessary.	C2		See Associated Plans.
G12	Goat willow		Ave 3.5	Ave 120	See Associated Plans.	0.5	E/Mat	Fair	Fair	Scrubby group of willows located within grassy area. Trees next to fence line are growing into steel fence. Tree is growing with weak unions and poor form.	Remove for Proposed Development	U		See Associated Plans.
G13	Silver maple		Min 8 - Max 12	Ave 200	See Associated Plans.	0.5	E/Mat	Fair	Fair	Group of three maple trees. Trees are located next to steel fence within grassy scrub area. Dense bramble throughout group restricting detailed assessment of trees/ no access to base. Trees have good retention value.	Remove for Proposed Development	C2		See Associated Plans.
G14	White poplar		Ave 12	Ave 200	See Associated Plans.	0.5	S/Mat	Good	Fair	Group of young poplar trees adjacent to car park. Trees are a continuation of the wider poplar group which forms a boundary with the car park. Trees have good retention potential.	Remove for Proposed Development	C2		See Associated Plans.

BS5837:2012 TREE SCHEDULE

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					N	E	S	W									
G15	Lombardy poplar		Ave 23	Ave 410	See Associated Plans.				0.5	Mat	Fair	Fair	Group of tall Poplar trees located on grass area adjacent to car park. due to size of tree and species characteristics, future management options / reduction should be considered. Dense ivy growth restricting detailed assessment of trees.	Remove for Proposed Development	C2		See Associated Plans.
G16	Goat willow		Ave 4	Ave 130	See Associated Plans.				0.5	E/Mat	Fair	Fair	Scrubby willow group. Trees are low quality and easily replaced. Trees offer little value to overall site.	Remove for Proposed Development	C2		See Associated Plans.
G17	White poplar		Ave 20	Min 300 - Max 650	See Associated Plans.				0.5	Mat	Good	Fair	Group of three large poplar trees. Trees are set behind rail fence, appear offsite, confirm ownership. Trees are mature and offer good screening value. Canopies encroach on site by approx 8m. Trees not on topographical survey, locations estimated.	Remove for Proposed Development	B2		See Associated Plans.
G18	Common hawthorn, Goat willow		Min 3 - Max 10	Min 50 - Max 300	See Associated Plans.				0.5	E/Mat	Fair	Fair	Scrubby group of trees along side boundary fence line. Dense bramble restricting detailed assessment of part of the group. Trees are relatively small in size and easily replaced. Trees offer good screening value with adjacent open space. Trees have little individual value.	Remove for Proposed Development	C2		See Associated Plans.
G19	White poplar		Ave 5	Ave 400	See Associated Plans.				0.5	Mat	Declining	Poor	Group of 2 offsite trees, these have failed into the site. Trees have no retention potential remaining.	Remove for Proposed Development. (confirm ownership prior to removal)	U		See Associated Plans.
G20	White poplar		Ave 10	Min 260 - Max 300	See Associated Plans.				0.5	E/Mat	Fair	Fair	Group of two small poplar trees on edge of site boundary. Trees form part of wider poplar group to the north, likely self seeded. Trees offer good screening to site. Limited individual value.	Remove for Proposed Development	C2		See Associated Plans.
G21	White poplar		Ave 20	Min 110 - Max 450	See Associated Plans.				0.5	Mat	Fair	Fair	Group of poplar trees on edge of site boundary. Group straddles boundary, confirm ownership. Trees are a prominent feature of the local landscape. Trees offer good screening for new development. Good individual value for mature trees within group.	Remove for Proposed Development	B1, 2		See Associated Plans.

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					N	E	S	W									
G22	Silver birch, Common hawthorn, White poplar, Wild cherry, Goat willow		Min 0.5 - Max 11	Min 50 - Max 250	See Associated Plans.				0.5	E/Mat	Fair	Fair	Mixed group on edge of site boundary. Group straddles boundary (confirm ownership). Scrubby group with little individual value, dense vegetation and bramble at base restricting detailed assessment of trees. Some trees within group are of poor quality. Screening value only.	Cut back canopy as required	C2		See Associated Plans.
G23	Norway maple		Min 8 - Max 10	Min 390 - Max 440	See Associated Plans.				1.5	Mat	Good	Fair	Group of 2 maples within scrubby area. Trees are a prominent feature over the local landscape. Trees have good form. Good future value.	Remove for Proposed Development	B2		See Associated Plans.
G24	Norway maple		Ave 6.5	Ave 150	See Associated Plans.				2	E/Mat	Fair	Fair	Linear group of planted Norway maples. Some tree still have tree stakes in situ. Group is of moderate quality, with some dieback and bark wounds associated with trees. Good future potential and trees have good aesthetic value.	Remove for Proposed Development	B2		See Associated Plans.
G25	Common alder, Wild cherry		Min 2 - Max 9.5	Min 50 - Max 130	See Associated Plans.				0.5	E/Mat	Fair	Fair	Scrubby group of alders and self seeded cherry trees. Trees have very limited individual value and easily replaced.	Remove for Proposed Development	C2		See Associated Plans.
G26	Wild cherry		Ave 9	Ave 350	See Associated Plans.				1.5	Mat	Fair	Fair	Group of 2 cherry trees within scrubby group. One has extensive canker and stem wounds associated with it. Limited future value.	Remove for Proposed Development	C2		See Associated Plans.
G27	Swedish whitebeam		Ave 4	Ave 280	See Associated Plans.				1.5	Mat	Fair	Fair	Group of three Whitebeams within scrubby group. Trees are dominant over neighbouring scrub. Good future value.	Remove for Proposed Development	C2		See Associated Plans.
G28	Wild cherry, Swedish whitebeam		Ave 6	Ave 290	See Associated Plans.				1.5	E/Mat	Fair	Fair	Group of 1 cherry and 1 whitebeam. Trees offer limited value to site. Multiple wounds associated with both trees. Limited future value.	Remove for Proposed Development	C2		See Associated Plans.
G29	Wild cherry, Swedish whitebeam		Ave 6	Ave 290	See Associated Plans.				1.5	E/Mat	Fair	Fair	Mixed group within scrubby area. Trees are being overshadowed by taller scrub. Limited future value.	Remove for Proposed Development	C2		See Associated Plans.
G30	Striped maple, Norway maple, Wild cherry, Cherry plum, Whitebeam		Ave 7	Min 150 - Max 450	See Associated Plans.				0.5	E/Mat	Fair	Fair	Avenue of trees. Trees are of mixed quality with some strong specimens and some poor, overall group is good. Management needed to maintain tree quality and group value	Remove for Proposed Development	B2		See Associated Plans.
G31	Wild cherry, Rowan, Swedish whitebeam		Min 6 - Max 8	Min 150 - Max 300	See Associated Plans.				0.5	E/Mat	Good	Fair	Mixed group of broadleaf trees on edge of wider scrub. Trees stand out against neighbouring trees. Trees are mixed quality but offer good future potential.	Remove for Proposed Development	C2		See Associated Plans.

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
01/11/2022	David Wilson Homes North West	Cherryfields Drive, Kirkby	1321-TS-001-C

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m ²)	RPA Radius (m)
					N	E	S	W									
G32	Field maple, Silver birch, Whitebeam		Ave 6.5	Ave 300	See Associated Plans.				1.5	E/Mat	Good	Fair	Linear group of mixed broadleaf trees. Tree are part of the ornamental planting on site and stand out from the wider scrub around. Trees offer good aesthetic value and have strong future potential.	Remove for Proposed Development	B2		See Associated Plans.
G33	Field maple, Rowan, Swedish whitebeam		Ave 7	Ave 230	See Associated Plans.				1	E/Mat	Fair	Fair	Group of trees within wider area of scrub. Trees are of moderate quality and have some future potential if retained.	Remove for Proposed Development	C2		See Associated Plans.
G34	Common plum		Ave 3.5	Ave 280	See Associated Plans.				1.5	Mat	Fair	Fair	Group of mature plum trees within wider scrub. Trees are of varied quality and many have bark wounds and branch failures within canopies. Limited future potential.	Remove for Proposed Development	C2		See Associated Plans.
G35	Common hawthorn, Common plum, Whitebeam		Ave 6	Ave 220	See Associated Plans.				0.5	E/Mat	Fair	Fair	Group of trees within wider scrub. Dense vegetation at base and ivy growth throughout restricting detailed inspection of trees. Trees are of moderate to poor condition and offer little value to wider group. Limited future value.	Remove for Proposed Development	C2		See Associated Plans.
G36	Italian alder, Common lime		Min 17 - Max 22	Min 430 - Max 600	See Associated Plans.				0.5	Mat	Good	Good	Group of mature trees on edge of scrubby group within clearing. Trees tower over the neighbouring scrub and have good visibility from off site. Trees are high quality compared to the majority of neighbouring trees and offer strong aesthetic value. Good screening with adjacent main road. Good future value.	Remove for Proposed Development	A1, 2		See Associated Plans.
G37	Common alder, Silver birch, Common hazel, Wild cherry, Rowan		Ave 6	Ave 150	See Associated Plans.				0.5	E/Mat	Fair	Fair	Group of small scrubby trees. Part of the ornamental planting on site. Tree stakes still in situ. Trees have established well but are of mixed quality. Limited future potential.	Remove for Proposed Development	C2		See Associated Plans.
G38	Norway maple, Horse chestnut, Silver birch, Wild cherry		Min 12 - Max 15	Min 300 - Max 550	See Associated Plans.				1.5	Mat	Good	Fair	Group of mature trees standing within wider scrub group. Trees are of mixed quality and offer good aesthetic value to site. Early signs of Horse Chestnut Bleeding Canker within one individual. Good future potential.	Remove for Proposed Development	B2		See Associated Plans.
G39	Silver maple, Italian alder, Manna ash		Min 18 - Max 20	Min 450 - Max 750	See Associated Plans.				0.5	Mat	Good	Good	Group of large mature trees on edge of scrub. Trees are generally of good quality and are prominent in the landscape. Trees offer good aesthetic value and screening with adjacent main road. Early signs of ash dieback. Ash associated with group unsuitable for long term retention. Strong future potential.	Remove for Proposed Development	A2		See Associated Plans.

BS5837:2012 TREE SCHEDULE

DATE	CLIENT	SITE	REFERENCE
01/11/2022	David Wilson Homes North West	Cherryfields Drive, Kirkby	1321-TS-001-C

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m²)	RPA Radius (m)
					N	E	S	W									
G40	Italian alder, Pedunculate oak		Ave 20	Min 280 - Max 650	See Associated Plans.				0.5	Mat	Good	Good	Group of mature trees on edge of scrubby group. Trees offer good aesthetic value to wider site and screening benefits with adjacent main road. Very strong future potential.	Remove for Proposed Development	A2		See Associated Plans.
G41	Wild cherry, Goat willow		Ave 5	Ave 200	See Associated Plans.				0.5	E/Mat	Fair	Fair	Scrubby group next to entrance fence. Trees are poor quality and offer limited value to wider site. Easily replaced.	Remove for Proposed Development	C2		See Associated Plans.
G42	Field maple, Norway maple, Sycamore, Common alder, Silver birch, Wild cherry, Pedunculate oak, Goat willow		Ave 3	Ave 100	See Associated Plans.				0.5	S/Mat	Fair	Fair	Dense scrubby ground self seeded throughout site. Trees are of low quality and offer no value to overall site.	Part removal for Proposed Development and cut back canopy as required	C2		See Associated Plans.
G43	Hornbeam, Wild cherry		Ave 6	Ave 100	See Associated Plans.				1.5	S/Mat	Fair	Fair	Off site street tree.	No works necessary.	C2		See Associated Plans.
G44	Field maple		Ave 6	Ave 100	See Associated Plans.				1.5	S/Mat	Fair	Fair	Off site street tree.	No works necessary.	C2		See Associated Plans.
G45	Field maple		Ave 6	Ave 100	See Associated Plans.				1.5	S/Mat	Fair	Fair	Off site street tree.	No works necessary.	C2		See Associated Plans.
G46	Silver birch, Leyland cypress, Scots pine, Wild cherry		Min 10 - Max 17	Ave 220	See Associated Plans.				0.5	Mat	Good	Fair	Tall hedge consisting of tall cypress trees around boundary. Couple of medium sized broadleaf specimens self seeded within group. Trees offer good screening to site	Remove for Proposed Development	C2		See Associated Plans.
G47	London plane		Ave 10	Min 220 - Max 500	See Associated Plans.				6.5	Mat	Good	Fair	Offsite street trees.	No works necessary.	C2		See Associated Plans.
G48	Common hawthorn		Ave 3	Ave 110	See Associated Plans.				1	E/Mat	Fair	Fair	Small planted hawthorn trees within open grass area next to leisure centre.	Part removal for Proposed Development	C2		See Associated Plans.
G49	Silver birch		Ave 8	Ave 300	See Associated Plans.				1.5	E/Mat	Fair	Fair	Roadside trees planted on grass verge	No works necessary.	C2		See Associated Plans.
G50	Italian alder, Silver birch, Goat willow		Ave 9	Ave 150	See Associated Plans.				0.2	E/Mat	Fair	Fair	Scrubby group located on edge of site boundary.	Remove for Proposed Development	C2		See Associated Plans.
G51	Norway maple, Italian alder, Silver birch, Wild cherry, Goat willow		Min 3 - Max 9	Ave 100	See Associated Plans.				0.2	E/Mat	Fair	Fair	Scrubby self set group. Easily replaced.	Remove for Proposed Development	C2		See Associated Plans.
G52	Italian alder, Silver birch, Goat willow		Min 4 - Max 8	Ave 100	See Associated Plans.				0.2	E/Mat	Fair	Fair	Scrubby self set group. Easily replaced.	Remove for Proposed Development	C2		See Associated Plans.

Appendix 3 – Plans



KEY.

Trees / Groups

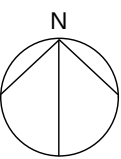
- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

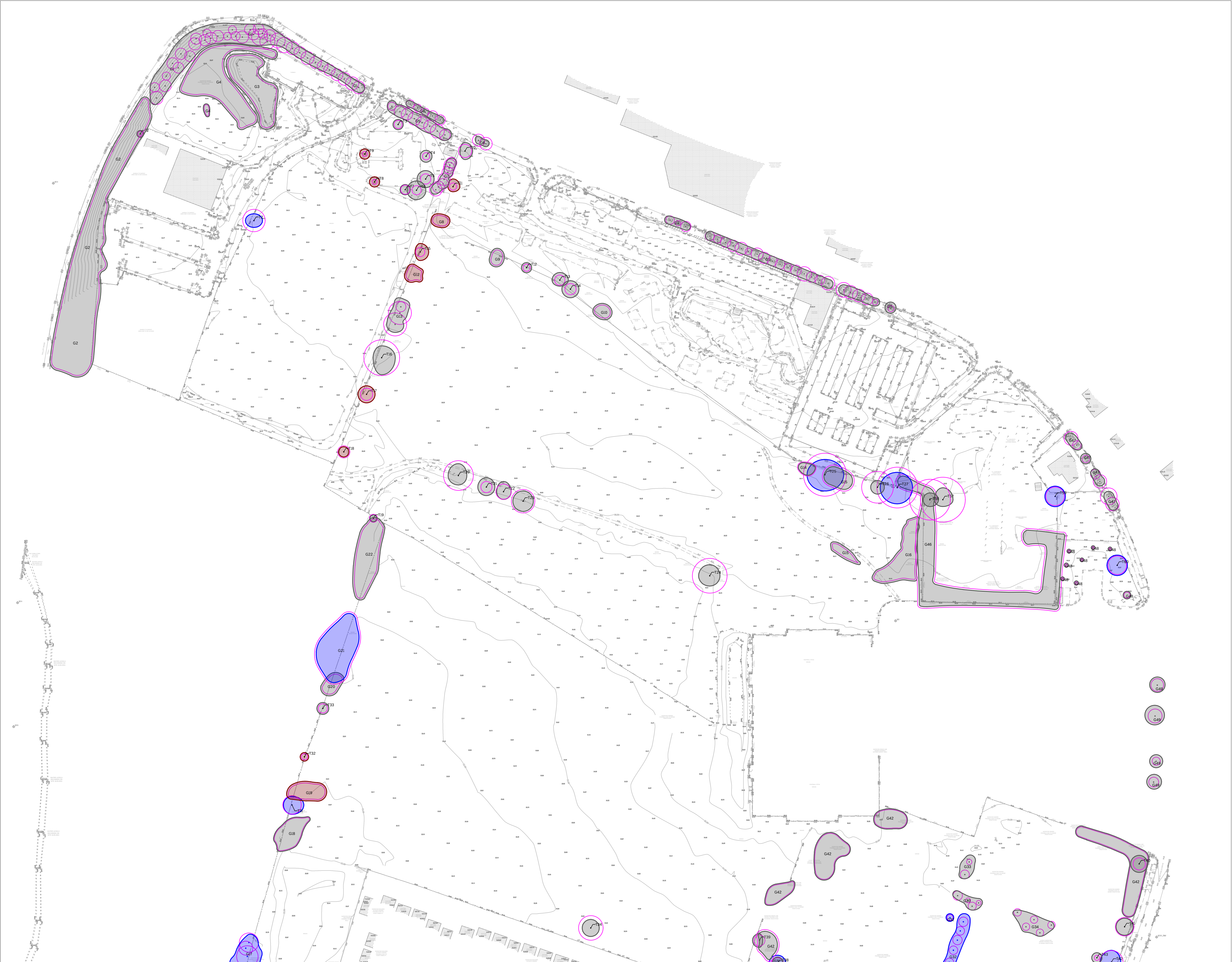


Rev B	Updated tree survey	01.11.2022
Rev A	Issue to client	22.11.2021
Rev	Description	Date

SEED

SEED Arboriculture Ltd
Suite F6.1, Adelphi Mill, Bollington, Cheshire, SK10 5JB
www.seed-arb.co.uk

PROJECT Cherryfields Drive, Kirkby	
TITLE Tree Constraints Plan	
DRAWING REF 1321-TCP-001-B (Overview)	DRAWING NO 001
SCALE 1:1500 @ A1	REVISION Rev B



KEY.

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

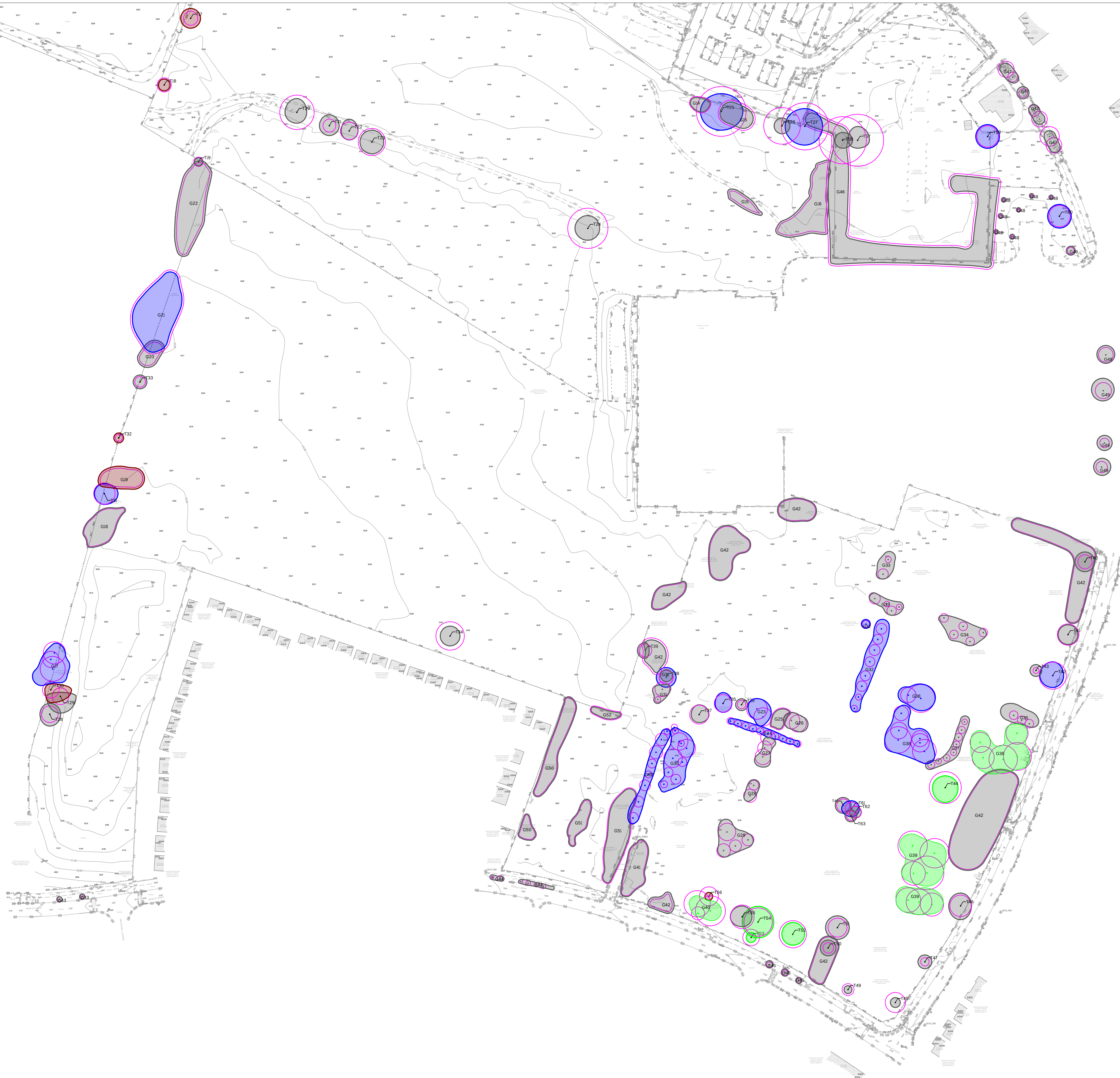


Rev B	Updated tree survey	01.11.2022
Rev A	Issue to client	22.11.2021
Rev	Description	Date

SEED

SEED Arboriculture Ltd
Suite F6.1, Adelphi Mill, Bollington, Cheshire, SK10 5JB
www.seed-arb.co.uk

PROJECT Cherryfields Drive, Kirkby	
TITLE Tree Constraints Plan	
DRAWING REF 1321-TCP-002-B	DRAWING NO 002
SCALE 1:1000 @ A1	REVISION Rev B



KEY.

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

Rev B Updated tree survey
Rev A Issue to client
Rev Description

01.11.2022
22.11.2021
Date

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www.seed-arb.co.uk

PROJECT
Cherryfields Drive, Kirkby

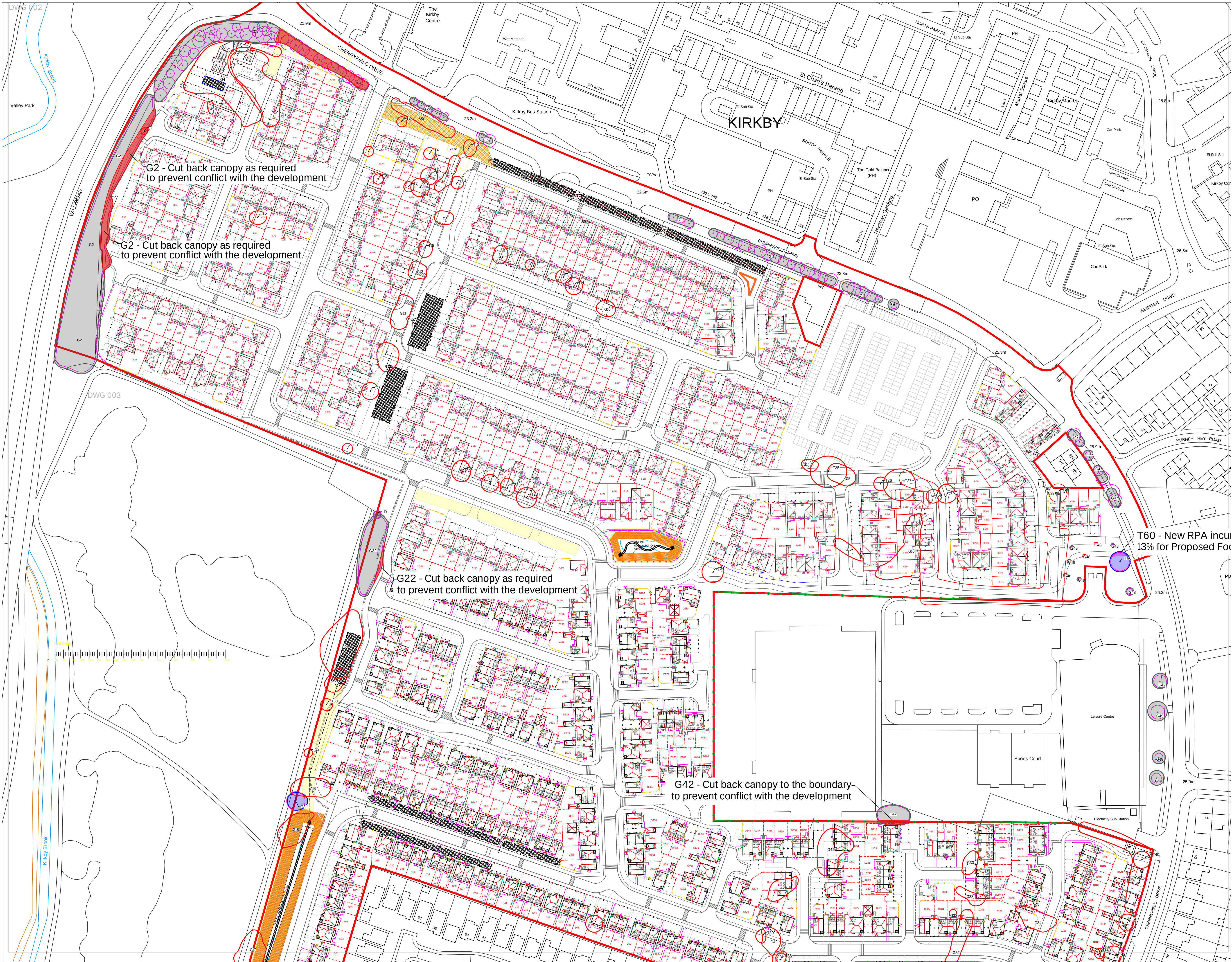
TITLE
Tree Constraints Plan

DRAWING REF
1321-TCP-003-B

DRAWING NO
003

SCALE
1:1000 @ A1

REVISION
Rev B



KEY:

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

Hedgerows
(Not assigned BS5837:2012 category)

ARBORICULTURAL IMPACT

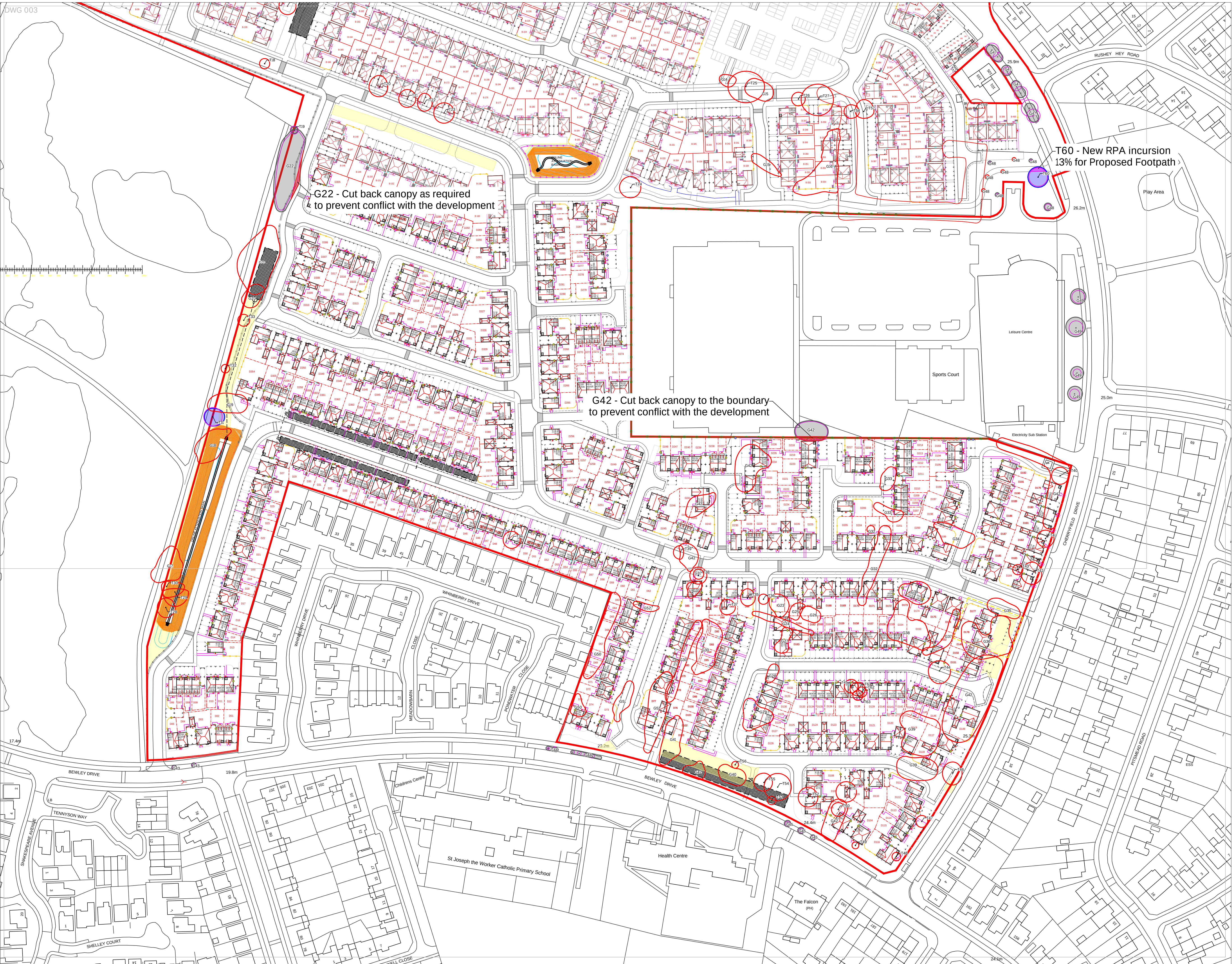
- Tree / Group to be REMOVED
- Group to be PART-REMOVED
- New RPA Incursion

Draft	Issue to client	14.03.2024
Rev	Description	Date



SEED Arboriculture Ltd
Suite F6.1, Adelphi Mill, Bollington, Cheshire, SK10 5JB
www.seed-arb.co.uk

PROJECT Cherryfield Drive, Kirkby	
TITLE Arboricultural Impact Plan	
DRAWING REF 1321-AIP-004-B	DRAWING NO 004
SCALE 1:1000 @ A1	REVISION B



KEY.

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

Hedgerows
(Not assigned BS5837:2012 category)

ARBORICULTURAL IMPACT

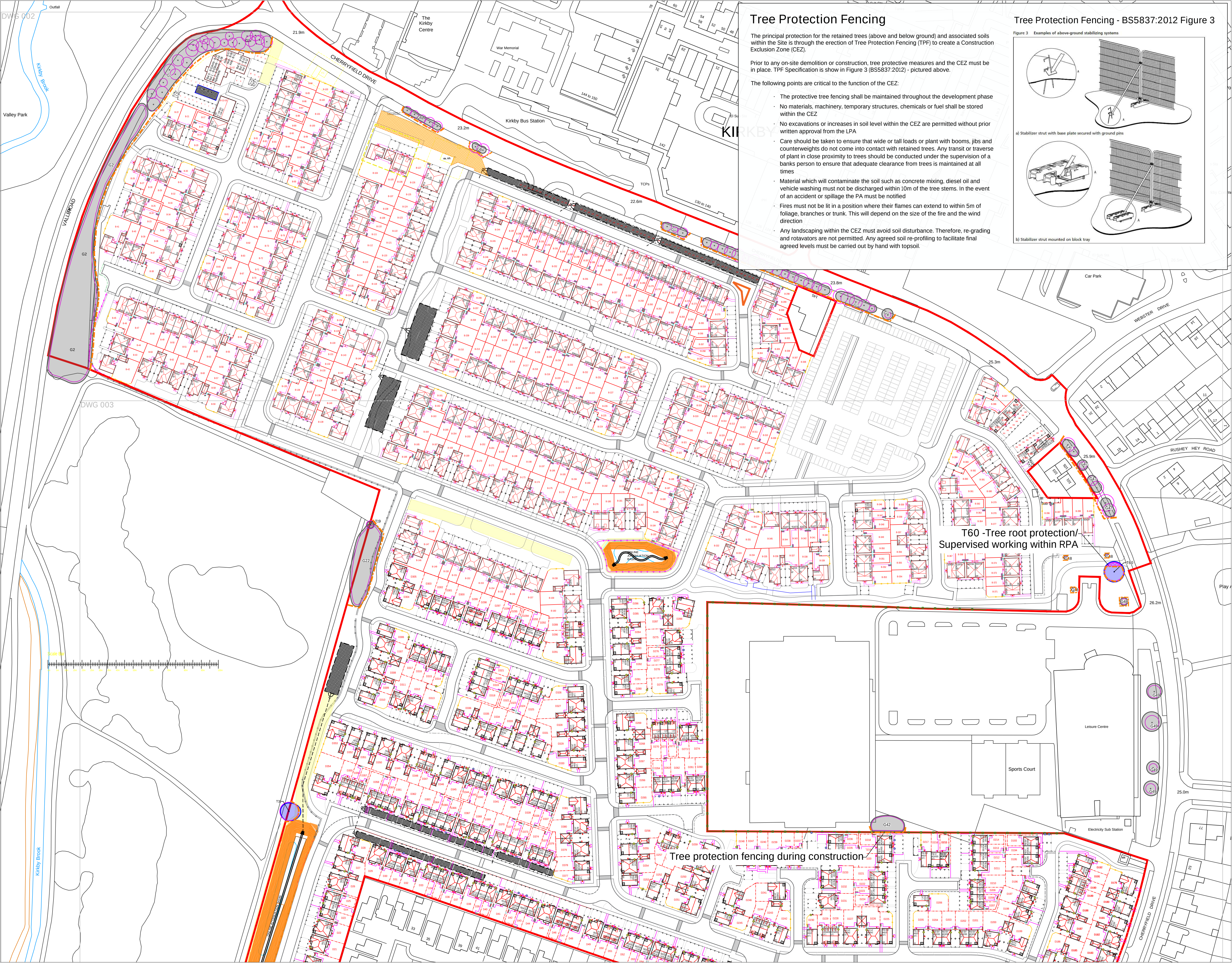
- Tree / Group to be REMOVED
- Group to be PART-REMOVED
- New RPA Incursion

Draft	Issue to client	14.03.2024
Rev	Description	Date

SEED

SEED Arboriculture Ltd
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www.seed-arb.co.uk

PROJECT Cherryfield Drive, Kirkby	DRAWING NO 005
TITLE Arboricultural Impact Plan	REVISION B
DRAWING REF 1321-AIP-005-B	
SCALE 1:1000 @ A1	



Tree Protection Fencing

The principal protection for the retained trees (above and below ground) and associated soils within the Site is through the erection of Tree Protection Fencing (TPF) to create a Construction Exclusion Zone (CEZ).

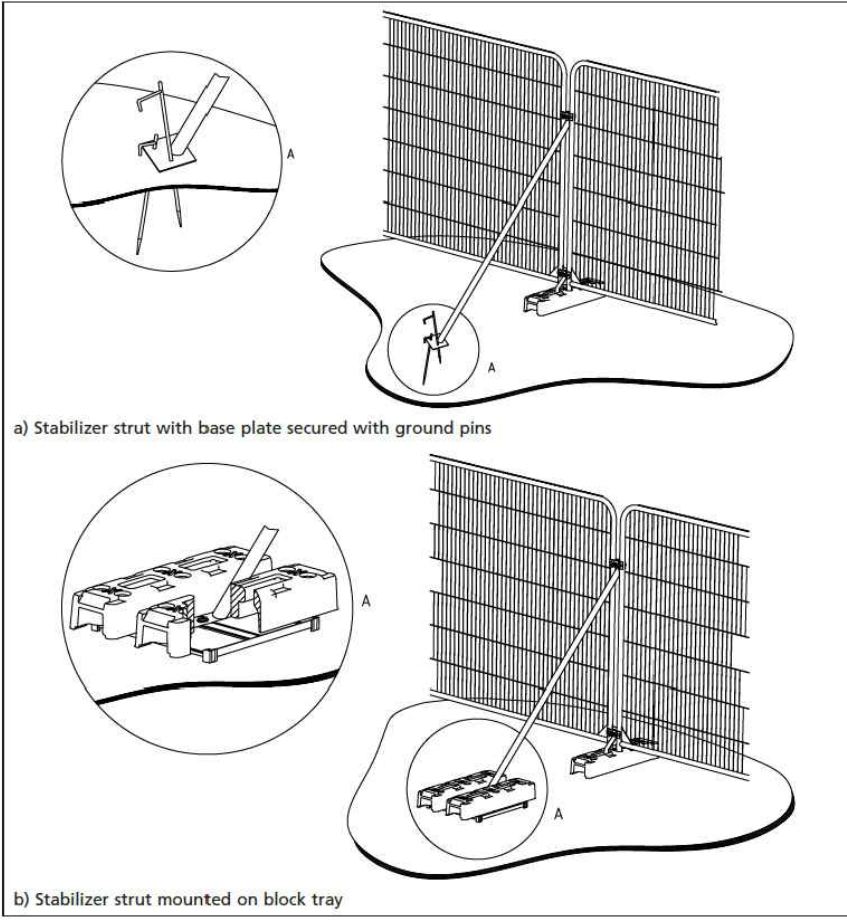
Prior to any on-site demolition or construction, tree protective measures and the CEZ must be in place. TPF Specification is show in Figure 3 (BS5837:2012) - pictured above.

The following points are critical to the function of the CEZ:

- The protective tree fencing shall be maintained throughout the development phase
- No materials, machinery, temporary structures, chemicals or fuel shall be stored within the CEZ
- No excavations or increases in soil level within the CEZ are permitted without prior written approval from the LPA
- Care should be taken to ensure that wide or tall loads or plant with booms, jibs and counterweights do not come into contact with retained trees. Any transit or traverse of plant in close proximity to trees should be conducted under the supervision of a banks person to ensure that adequate clearance from trees is maintained at all times
- Material which will contaminate the soil such as concrete mixing, diesel oil and vehicle washing must not be discharged within 10m of the tree stems. In the event of an accident or spillage the PA must be notified
- Fires must not be lit in a position where their flames can extend to within 5m of foliage, branches or trunk. This will depend on the size of the fire and the wind direction
- Any landscaping within the CEZ must avoid soil disturbance. Therefore, re-grading and rotavators are not permitted. Any agreed soil re-profiling to facilitate final agreed levels must be carried out by hand with topsoil.

Tree Protection Fencing - BS5837:2012 Figure 3

Figure 3 Examples of above-ground stabilizing systems



KEY.

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

Hedgerows
(Not assigned BS5837:2012 category)

TREE PROTECTION

- TPF Tree Protection Fencing
- No dig tree root protection/ Supervised working within RPA

T60 - Tree root protection/
Supervised working within RPA

Tree protection fencing during construction

Rev A
Rev

Issue to client
Description

16.12.2023
Date

SEED

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PROJECT
Cherryfield Drive, Kirkby

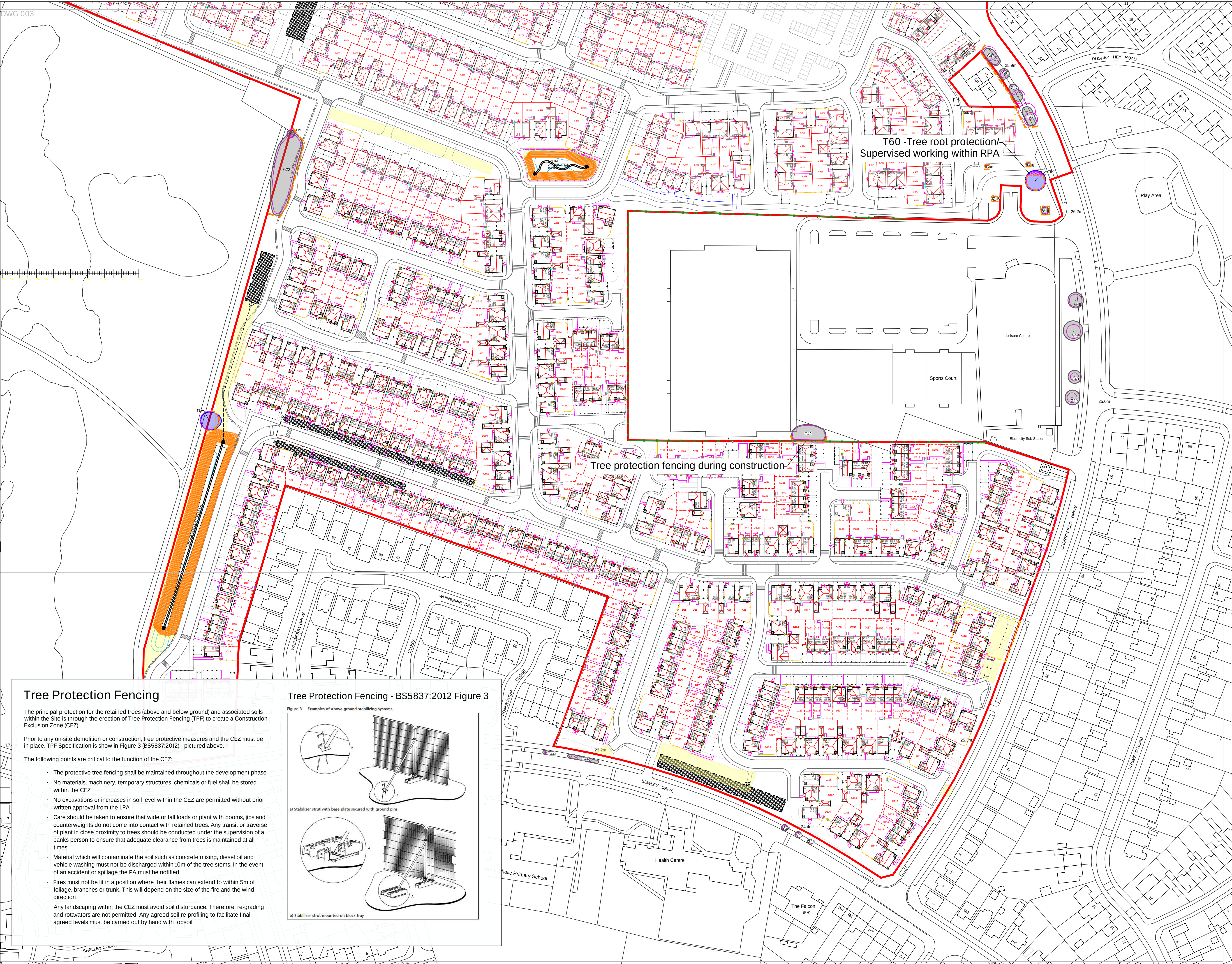
TITLE
Tree Protection Plan

DRAWING REF
1321-TPP-006-B

DRAWING NO
006

SCALE
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REVISION
Rev B



Tree Protection Fencing

The principal protection for the retained trees (above and below ground) and associated soils within the Site is through the erection of Tree Protection Fencing (TPF) to create a Construction Exclusion Zone (CEZ).

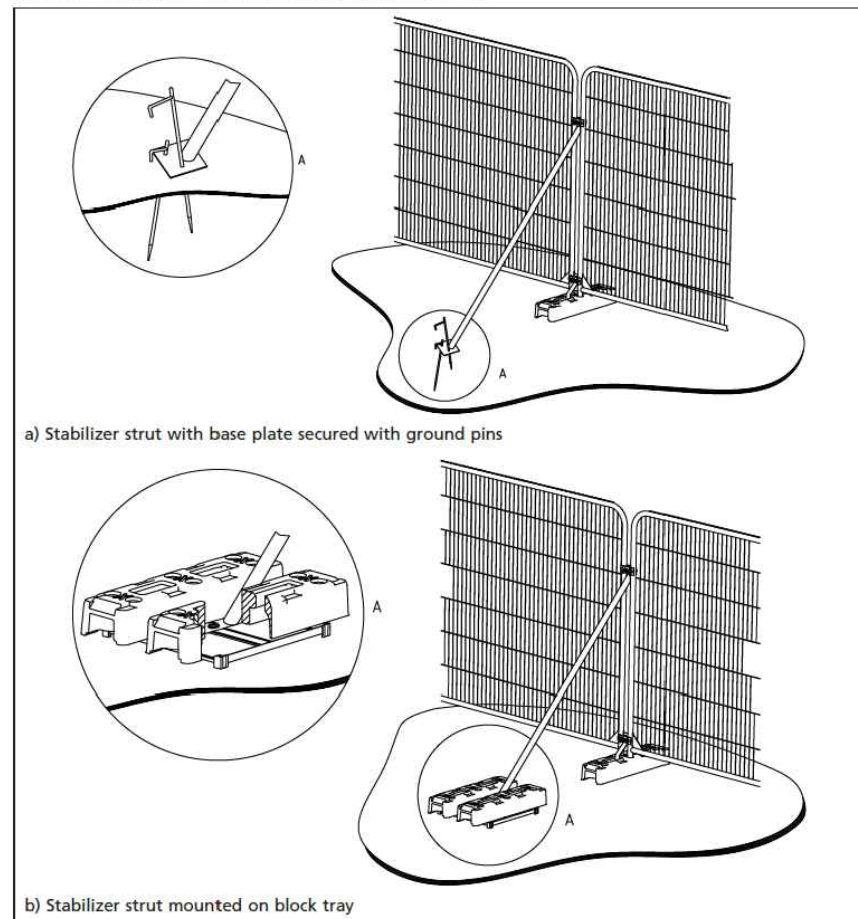
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- Any landscaping within the CEZ must avoid soil disturbance. Therefore, re-grading and rotavators are not permitted. Any agreed soil re-profiling to facilitate final agreed levels must be carried out by hand with topsoil.

Tree Protection Fencing - BS5837:2012 Figure 3

Figure 3 Examples of above-ground stabilizing systems



KEY.

Trees / Groups

- Canopy Spread
- Tree Stem
- Root Protection Area

A Category Tree (High quality / retention value)

B Category Tree (Moderate quality / retention value)

C Category Tree (Low quality / retention value)

U Category Tree (No remaining retention value)

Hedgerows (Not assigned BS5837:2012 category)

TREE PROTECTION

- TPF Tree Protection Fencing
- No dig tree root protection/ Supervised working within RPA

Rev A	Issue to client	14.03.2024
Rev	Description	Date

SEED

SEED Arboriculture Ltd
Suite F6.1, Adelphi Mill, Bollington, Cheshire, SK10 5JB
www.seed-arb.co.uk

PROJECT
Cherryfield Drive, Kirkby

TITLE
Tree Protection Plan

DRAWING REF
1321-TPP-007-A

SCALE
1:1000 @ A1

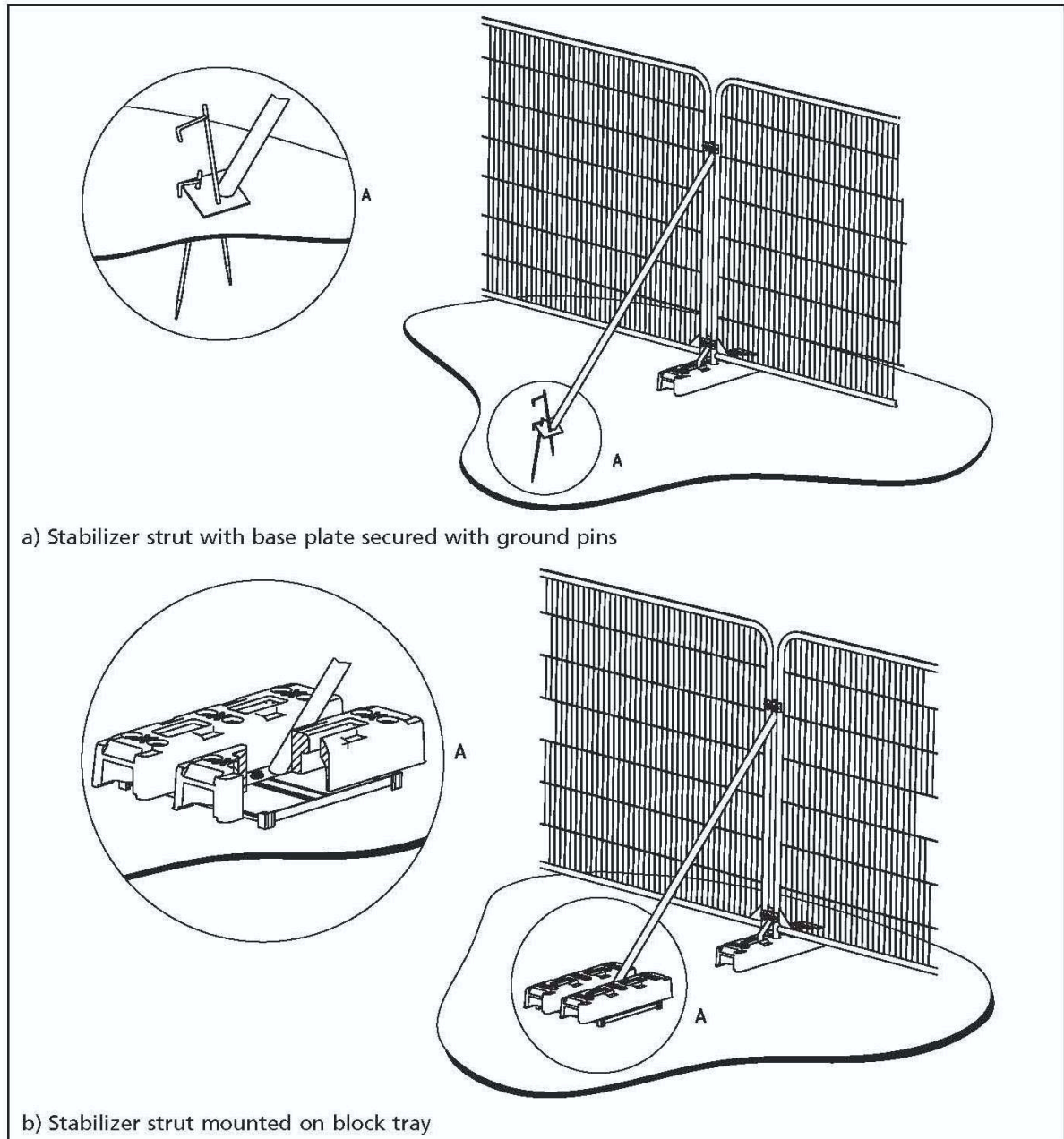
DRAWING NO
007

REVISION
Rev B

Appendix 4 – Tree Protective Fencing

BS5837:2012 – Figure 3

Figure 3 Examples of above-ground stabilizing systems



Appendix 5 – Greenfix Geoweb Installation Method

PRESTO



INSTALLATION GUIDE

■ **simplified**



GEOWEB® Tree Root Protection



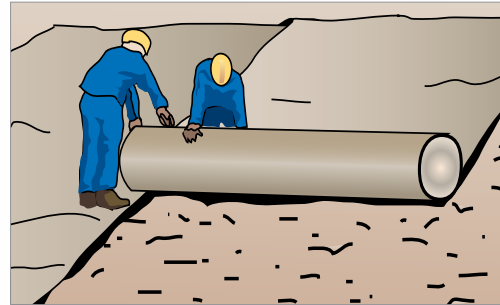


GEOWEB® Tree Root Protection

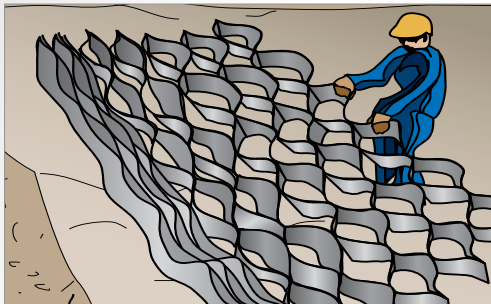
- 1 Prepare subgrade. Remove debris, rocks.



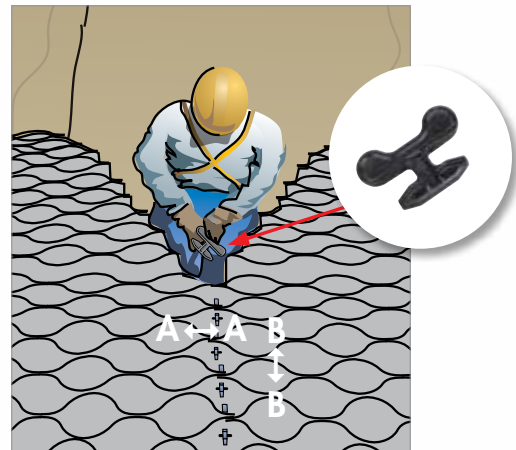
- 2 Install TRP4000 geotextile.
Overlaps by minimum 300 mm.



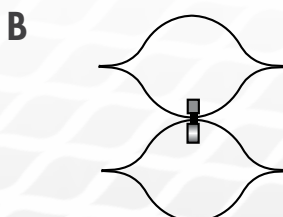
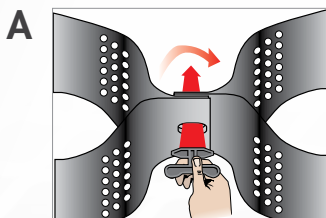
- 3 Partially expand GEOWEB® sections.



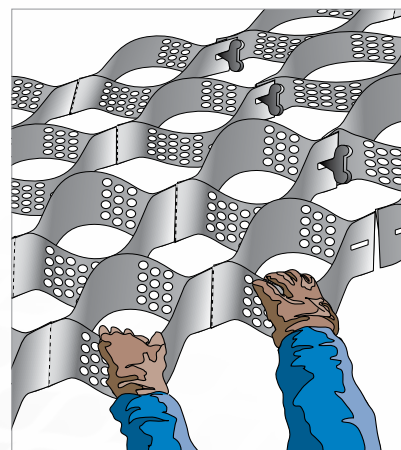
- 4 Connect GEOWEB® sections with ATRA® keys.



- 5 Connect side to side (A) and end to end (B).



- 6 Fully expand GEOWEB® sections.



IMPORTANT NOTE:

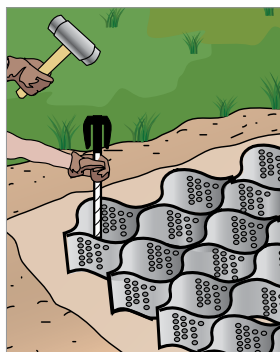
The simplified installation guide provided by Presto GEOSYSTEMS® is intended as a general guideline only. The contractor should follow contract plans and specifications and refer to detailed installation guidelines for more information.

- 7** Hold sections open. Use Options A, B, C or D.

A T-Bars



B ATRA® anchors



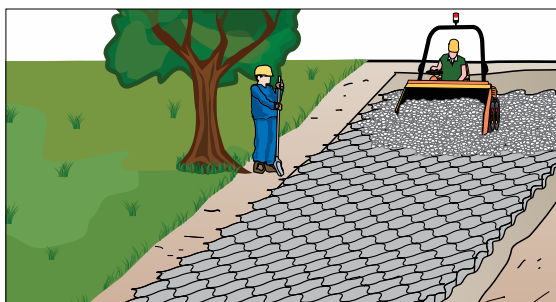
C Wood Stakes



D Infill Select Cells



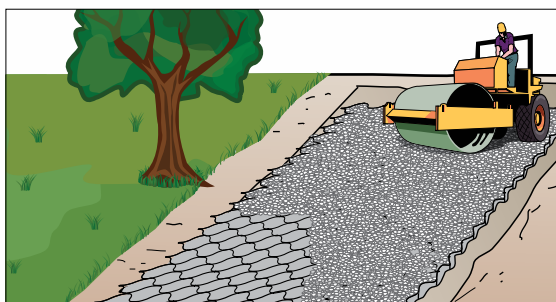
- 8** Infill GEOWEB® cells.



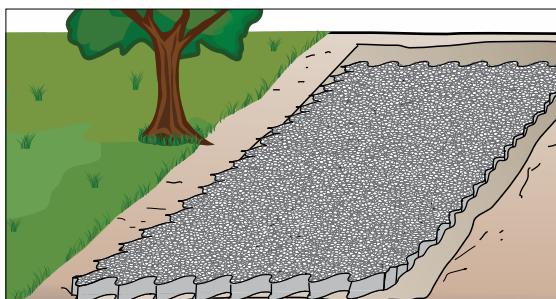
- 9** Spread Infill ensuring a 25 mm overfill at all times.



- 10** If required, use a 4t smooth, non-vibrating roller on overfilled GEOWEB® system. Refill as needed to ensure a 25 mm overfill.



- 11** Surface option ready to install according to specification.



Greenfix
Soil Stabilisation and Erosion Control Specialists

info@greenfix.co.uk
tel: 01608 666027
www.greenfix.co.uk

Geoweb infill material for Tree Root Protection
Clean Angular Stone 4-20mm

Specification for open graded infill material for Geoweb cellular confinement within tree root protection applications. The no fines material is to ensure high ratio void space which corresponds with ideal soil void ratios for tree root health.

Material to BS EN1342 or BS EN12620. Crushed gravel is not permitted.

Properties of material	Test	Value
Grading of particle size	BS EN 13242	Grading 4-20mm
Fines Content	BS EN 13242	f ₈₀
Shape flatness index	BS EN 13242	F ₈₀
Resistance to fragmentation	BS EN 13242	LA ₁₀
Resistance to wear	BS EN 13242	M ₁₀ 20
Water absorption rate BS EN 1097-6:2000 clause 7	BS EN 13242	WA ₂ 2
For typical WA > 2% magnesium sulphate soundness	BS EN 13242	MS ₁₈
Acid soluble sulphate content air-cooled blast furnace slag	BS EN 13242	ASo ₁
Acid soluble sulphate content non air cooled blast furnace slag	BS EN 13242	ASo ₂
Total sulphur aggregates other than air cooled blast furnace slag	BS EN 13242	<1% by mass
Total sulphur air cooled blast furnace slag	BS EN 13242	<2% by mass

Sieve Size mm	Percentage of 4-20mm passing
40	100
31.5	98 - 100
20	90 - 99
10	25 - 70
4	0 - 15
2	0 - 5
1	-

Air cooled blast furnace and steel slag should be free from Dicalcium silicate and iron disintegration in accordance with BS EN 13242:2002, 6.4.2.2 v5
Leaching of materials for blast furnace slag and other recycled materials should meet requirements of the Environmental waste acceptance criteria for inert waste when tested in accordance with BS EN 12457-3
On poor site conditions which require compaction, this should be minimum 4 passes of a smooth wheeled roller at max weight 1000kg/m width without vibration.

For assistance on correct 4–20mm clean angular stone infill specification, please contact Greenfix technical team.

MATERIALS SUPPLIED BY **Greenfix**

GEOWEB®



TRP4000
Non-woven Geotextile



ANCHORS



ATRA® KEY



ADDITIONAL MATERIALS REQUIRED

4–20mm clean, angular stone



LIMITED WARRANTY

Presto GEOSYSTEMS® warrants each GEOWEB® section which it ships to be free from defects in materials and workmanship at the time of manufacture. Presto's exclusive liability under this warranty or otherwise will be to furnish without charge to Presto's customer at the original f.o.b. point a replacement for any section which proves to be defective under normal use and service during the 10-year period which begins on the date of shipment by Presto. Presto reserves the right to inspect any allegedly defective section in order to verify the defect and ascertain its cause.

This warranty does not cover defects attributable to causes or occurrences beyond Presto's control and unrelated to the manufacturing process, including, but not limited to, abuse, misuse, mishandling, neglect, improper storage, improper installation, improper alteration or improper application.

PRESTO MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, WRITTEN OR ORAL, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, IN CONNECTION WITH THE GEOWEB® SYSTEM. IN NO EVENT SHALL PRESTO BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR FOR ANY OTHER REASON, INCLUDING NEGLIGENCE, IN CONNECTION WITH THE GEOWEB® SYSTEM.

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PRESTO GEOSYSTEMS®
Appleton, Wisconsin, USA

EU HEAD OFFICE/ENGINEERING SUPPORT:



SOILTEC GmbH: Germany
www.soiltec-geosystems.de

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Old Manor Farm Yard
Beckford Road
Ashton under Hill
Evesham
Worcestershire
WR11 7SU
info@greenfix.co.uk
www.greenfix.co.uk
01608666027