



# ARBORICULTURAL IMPACT ASSESSMENT

## SITE LOCATION

Former Quinn Radiator Manufacturing Plant,  
Duffryn Lane,  
Coedkernew,  
Newport

**ISSUE DATE**  
03th November 2023

**SEED REF**  
1575-AIA-V1-C

**CLIENT**  
ERM

ARBORICULTURAL CONSULTANCY  
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## DOCUMENT CONTROL

Date	Author	Checked	Revision
27.06.2023	Ryan Kearney FdSc	GP	Rev A
18.10.2023	Sam Selwyn Dip Arb L4 (abc)	SH	Rev B
03.11.2023	Sam Selwyn Dip Arb L4 (abc)	SH	Rev C

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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.

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## Plans

### Tree Constraints Plans

Ref: 1575-TCP-001-A                          Revision: A

### Arboricultural Impact Plans

Ref: 1575-AIP-002-C                          Revision: C

### Draft Tree Protection Plans

Ref: 1575-TPP-003-C                          Revision: C



# 1. Introduction

## Background & Instruction

- 1.1.1. This report has been prepared by Sam Selwyn Dip Arb L4 (abc).
- 1.1.2. This Arboricultural Impact Assessment (AIA) has been prepared by SEED Arboriculture Ltd on behalf of ERM in support of a planning application for the construction of two new warehouses near junction 29 M4, Newport, South Wales (hereafter referred to as the 'site').
- 1.1.3. The planning application is to be submitted to Newport City Council (NCC)

## 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 centred at UK National Grid Reference (ST 279 844) and comprises an existing warehouse within an industrial estate. The site is bordered by the A48 and Celtic way. The application boundary is illustrated on the Site Location Plan (**Appendix 1**)
- 1.1.7. The wider site includes several groups of trees surrounding the site boundary. These groups have been identified and considered within this report.

## 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 Survey	N 1082	Laser Surveys	May 2021
Proposed Site Location Plan	CWL01-02	RED	October 2022



## 2. Planning Policy and Legislation

### Planning Policy Wales - Edition 11

- 2.1.1. Planning Policy Wales- Edition 11 guides the planning policy and decision-making process of Welsh Local Planning Authorities in relation to trees.

### Statutory Tree Protection & Designations

- 2.1.2. It has been confirmed by NCC that there are no Tree Preservation Orders (TPOs) on site or any Conservation Areas.
- 2.1.3. No Ancient Woodland<sup>1</sup> designations are present upon or adjacent to the Site.

### Felling Licence

- 2.1.4. 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)”
- 2.1.5. 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.

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<sup>1</sup> 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 on 1<sup>st</sup> June 2023, by George Pickering Bsc (*Hons*), TechArborA.
- 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 38no. individual trees, comprising of 28no. category B and 8no. category C retention value. 2no. category U retention value.

##### *Groups*

- 3.1.6. The survey recorded 5no. groups of trees, comprising of 5no. category C retention value.

##### *Hedgerows*

- 3.1.7. 2no. single species hedgerows were also recorded; however, these are not assigned a retention category.



## 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. Table 2 details the tree and group removals required to implement the Proposed Development.

*Table 2 – Tree Removal for Proposed Development*

Tree Removal for Proposed Development			
Reference Number	BS5837:2012 Category	Reason	Notes
<b>T1</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	Fixed development constraints – unavoidable impact
<b>T2</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	Fixed development constraints – unavoidable impact
<b>T3</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	Fixed development constraints – unavoidable impact
<b>T4</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	Fixed development constraints – unavoidable impact
<b>T5</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	Fixed development constraints – unavoidable impact
<b>T6</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	Fixed development constraints – unavoidable impact
<b>T7</b> (Wild Cherry)	<b>U</b>	Conflict with proposed hardscaping	No remaining value
<b>T8</b> (Wild Cherry)	<b>U</b>	Conflict with proposed hardscaping	No remaining value
<b>T9</b> (Wild Cherry)	<b>B1</b>	Conflict with proposed development.	-
<b>T10</b> (Wild Cherry)	<b>C1</b>	Conflict with proposed development.	-
<b>T11</b> (Wild Cherry)	<b>B1</b>	Conflict with proposed development.	-



<b>T12</b> (Wild Cherry)	<b>B1</b>	Conflict with proposed development.	-
<b>T13</b> (Wild Cherry)	<b>B1</b>	Conflict with proposed development.	-
<b>T14</b> (Wild Cherry)	<b>B1</b>	Conflict with proposed development.	-
<b>T15</b> (Wild Cherry)	<b>C1</b>	Conflict with proposed development.	-
<b>T16</b> (Wild Cherry)	<b>C1</b>	Conflict with proposed development.	-
<b>T17</b> (Wild Cherry)	<b>C1</b>	Conflict with proposed development.	-
<b>T18</b> (Wild Cherry)	<b>C1</b>	Conflict with proposed development.	-
<b>T19</b> (Wild Cherry)	<b>C1</b>	Conflict with proposed development.	-
<b>T20</b> (Wild Cherry)	<b>C1</b>	Conflict with proposed development.	-
<b>T21</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T22</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T23</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T24</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T25</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T26</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T27</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T28</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-



<b>T29</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T30</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T31</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T32</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T33</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T34</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T35</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T36</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>T37</b> (Norway Maple)	<b>B1</b>	Conflict with proposed development.	-
<b>G1</b> (Wild Cherry)	<b>C2</b>	Conflict with proposed development.	-
<b>G4</b> (Mixed Native)	<b>C1</b>	Conflict with proposed development.	-

**Part-removal for proposed development**

(see Arboricultural Impact Plans at Appendix 3 for extent of part-removals)

<b>G3</b> (Native mix)	<b>C2</b>	Conflict with proposed development.	Cut back to the boundary to facilitate the installation of a new security fence.
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- 4.1.3. None of the trees proposed for removal are considered aged or veteran and therefore the principles for refusal within the NPPF would not be considered applicable.



## Mitigation

- 4.1.4. The soft landscaping proposals detail a significant commitment to the creation of new landscaping, habitat creation and tree planting.
- 4.1.5. The Proposed Development will result in a medium – long term increase in canopy cover across the site.
- 4.1.6. The resulting additional species will also provide much needed diversity among tree species for futureproofing against pests, diseases and the effects of climate change.

## Root Protection Areas (RPAs)

- 4.1.7. 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.
- 4.1.8. 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.
- 4.1.9. 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**.
- 4.1.10. **The proposed development will result in no new RPA incursions.**

## Future growth

- 4.1.11. Due to the location of retained trees, future growth of trees is not considered to be an issue to the Proposed Development.  
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 draft 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. Tree Protection Fencing has been recommended during the construction phase to protect proposed retained trees (see **appendix 3**). As for the offsite groups, the boundary fence currently in place should suffice as protective fencing during the construction phase.
- 5.1.5. 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.
- 5.1.6. The indicative location of Tree Protection Fencing (TPF) is illustrated on the Draft Tree Protection Plans at **Appendix 3**.
- 5.1.7. 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.
- 5.1.8. 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.
- 5.1.9. 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.
- 5.1.10. Weatherproof signage will be attached to the fencing with words such as 'Construction Exclusion Zone – No Access' (signage example at **Appendix 4**).
- 5.1.11. 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.



### **Removal / replacement of hard surfacing.**

- 5.1.12. The removal of existing surfacing within the RPAs of retained trees should be carried out with arboricultural supervision.
- 5.1.13. If the Tree Protection Fencing needs to be moved during this work, temporary tree trunk protection should be in place prior to the commencement of this stage. An example of temporary tree trunk protection is provided on the TPP at **Appendix 3**.
- 5.1.14. The removal of existing surfacing should be carried out beginning closest to the trees and working backwards, away from the trees, so no machinery stands on the exposed ground. The use of large plant machinery should be avoided where possible.
- 5.1.15. Tree Protection Fencing should be in place during the removal of the existing surfacing and moved accordingly to protect the exposed ground as the removal progresses.
- 5.1.16. Where new surfacing is to be laid, the existing sub-base should be retained and augmented as required.
- 5.1.17. If the sub-base is removed and the exposed ground is to be trafficked by construction machinery then temporary ground protection should be installed within the RPAs to minimise the risk of damage to tree roots or ground compaction. The recommended specification for ground protection for construction traffic can be found at Appendix 3. As a temporary solution, the Greenfix Geoweb Tree Root Protection should be finished with a 30mm gravel overfill of the same stone type as the main fill (4-20mm clean angular stone – low fines).

## **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. Planning Policy Wales - Edition 11 - February 2021
- 6.1.5. The Forestry Act 1967
- 6.1.6. The Town and Country Planning Act 1990
- 6.1.7. Welsh Government (2013) Protected Trees – A guide to tree preservation procedures.
- 6.1.8. Planning Guidance (Wales) Technical Advice Notes (Wales) 10 – Tree Preservation Orders



## Appendix 1 – Site Location Plan





## Appendix 2 – Tree Schedule



**ARBORICULTURAL IMPACT ASSESSMENT - [Former Quinn Radiator Manufacturing Plant]**

[1575-AIA-V1-C]

**SEED-ARB.CO.UK**

**BS5837:2012 TREE SCHEDULE**

	<b>DATE</b>	<b>CLIENT</b>	<b>SITE</b>	<b>REFERENCE</b>
	01/06/2023	ERM	Quinn Radiators, Newport	1575-TS-001-A

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m <sup>2</sup> )	RPA Radius (m)	
					N	E	S	W									
T1	Norway maple	<i>Acer platanoides</i>	6	170	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	14	2.10
T2	Norway maple	<i>Acer platanoides</i>	5	150	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80
T3	Norway maple	<i>Acer platanoides</i>	5	150	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80
T4	Norway maple	<i>Acer platanoides</i>	5	130	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	7	1.50
T5	Norway maple	<i>Acer platanoides</i>	5	140	3	4	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80
T6	Norway maple	<i>Acer platanoides</i>	5	130	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	7	1.50
T7	Wild cherry	<i>Prunus avium</i>	4	100	1	1	1	1	1.5	S/Mat	Declining	Poor	Located on grass verge. Canopy heavily declining. Very limited future contribution.	Remove for proposed development	U	0	0.00
T8	Wild cherry	<i>Prunus avium</i>	5	110	1	1	1	1	1.5	S/Mat	Declining	Poor	Located on grass verge. Canopy heavily declining. Very limited future contribution.	Remove for proposed development	U	0	0.00
T9	Wild cherry	<i>Prunus avium</i>	9	310	4	4	4	4	1	E/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy. Well established with good future value.	Remove for proposed development	B1	0	0.00
T10	Wild cherry	<i>Prunus avium</i>	7	200	3	3	3	3	2.5	S/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy. Well established with good future value.	Remove for proposed development	C1	18	2.40
T11	Wild cherry	<i>Prunus avium</i>	7	260	4	4	4	4	1.5	E/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy. Well established with good future value.	Remove for proposed development	B1	28	3.00



## BS5837:2012 TREE SCHEDULE

		DATE	CLIENT	SITE	REFERENCE
		01/06/2023	ERM	Quinn Radiators, Newport	1575-TS-001-A

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)				Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m <sup>2</sup> )	RPA Radius (m)	
					N	E	S	W									
T12	Wild cherry	<i>Prunus avium</i>	7	240	4	3	4	4	1	E/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy. Well established with good future value.	Remove for proposed development	B1	28	3.00
T13	Wild cherry	<i>Prunus avium</i>	8	310	4	4	4	4	2	E/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy. Well established with good future value.	Remove for proposed development	B1	41	3.60
T14	Wild cherry	<i>Prunus avium</i>	8	360	5	5	6	5	2	E/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy. Minor gooey exudate on main stem likely due to cherry canker. Well established with good future value.	Remove for proposed development	B1	55	4.20
T15	Wild cherry	<i>Prunus avium</i>	6	170	4	5	3	5	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy.	Remove for proposed development	C1	14	2.10
T16	Wild cherry	<i>Prunus avium</i>	8	260	4	4	4	4	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy.	Remove for proposed development	C1	28	3.00
T17	Wild cherry	<i>Prunus avium</i>	7	190	3	3	3	3	3	S/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy.	Remove for proposed development	C1	18	2.40
T18	Wild cherry	<i>Prunus avium</i>	5	130	2	2	2	2	1.5	S/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Tree stake still in situ. Minor deadwood associated with canopy.	Remove for proposed development	C1	7	1.50
T19	Wild cherry	<i>Prunus avium</i>	5	130	2	2	2	2	1.5	S/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Tree stake still in situ. Minor deadwood associated with canopy.	Remove for proposed development	C1	7	1.50
T20	Wild cherry	<i>Prunus avium</i>	4	100	1	1	1	1	1.5	S/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Tree stake still in situ. Minor deadwood associated with canopy.	Remove for proposed development	C1	5	1.20
T21	Norway maple	<i>Acer platanoides</i>	5	150	2	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80



## BS5837:2012 TREE SCHEDULE

		DATE	CLIENT	SITE	REFERENCE
		01/06/2023	ERM	Quinn Radiators, Newport	1575-TS-001-A

Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)		Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m <sup>2</sup> )	RPA Radius (m)			
					N	E	S	W									
T22	Norway maple	<i>Acer platanoides</i>	5	150	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80
T23	Norway maple	<i>Acer platanoides</i>	5	180	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree stake still in situ. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	14	2.10
T24	Norway maple	<i>Acer platanoides</i>	6	180	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree stake still in situ. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	14	2.10
T25	Norway maple	<i>Acer platanoides</i>	5	120	2	2	2	2	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	7	1.50
T26	Norway maple	<i>Acer platanoides</i>	6	200	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree stake still in situ. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	18	2.40
T27	Norway maple	<i>Acer platanoides</i>	6	200	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree stake still in situ. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	18	2.40
T28	Norway maple	<i>Acer platanoides</i>	5	180	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	14	2.10
T29	Norway maple	<i>Acer platanoides</i>	5	160	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80



## BS5837:2012 TREE SCHEDULE

													DATE	CLIENT	SITE	REFERENCE	
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 <sup>2</sup> )	RPA Radius (m)
					N	E	S	W									
T30	Norway maple	<i>Acer platanoides</i>	5	150	2	2	2	2	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80
T31	Norway maple	<i>Acer platanoides</i>	5	180	2	2	2	2	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	14	2.10
T32	Norway maple	<i>Acer platanoides</i>	5	160	2	2	2	2	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	10	1.80
T33	Norway maple	<i>Acer platanoides</i>	5	130	2	2	2	2	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	7	1.50
T34	Norway maple	<i>Acer platanoides</i>	5	130	2	2	2	2	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	7	1.50
T35	Norway maple	<i>Acer platanoides</i>	5	120	2	2	2	2	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	7	1.50
T36	Norway maple	<i>Acer platanoides</i>	5	240	3	3	3	3	2	S/Mat	Good	Fair	Part of the landscaping planting on site. Grown next to steel boundary fence. Tree is well maintained with small round canopy. Well established with good future value.	Remove for proposed development	B1	28	3.00
T37	Cockspur hawthorn	<i>Crataegus crus-galli</i>	4	120	2	2	2	2	1.5	S/Mat	Fair	Fair	Part of the landscaping planting on site. Growing into steel boundary fence. Scrubby form.	Remove for proposed development	C1	7	1.50
T38	Wild cherry	<i>Prunus avium</i>	9	300	4	4	4	4	1	E/Mat	Good	Fair	Part of the landscaping planting on site. Single stemmed with radial canopy. Minor deadwood associated with canopy. Well established with good future value.	Remove for proposed development	B1	41	3.60

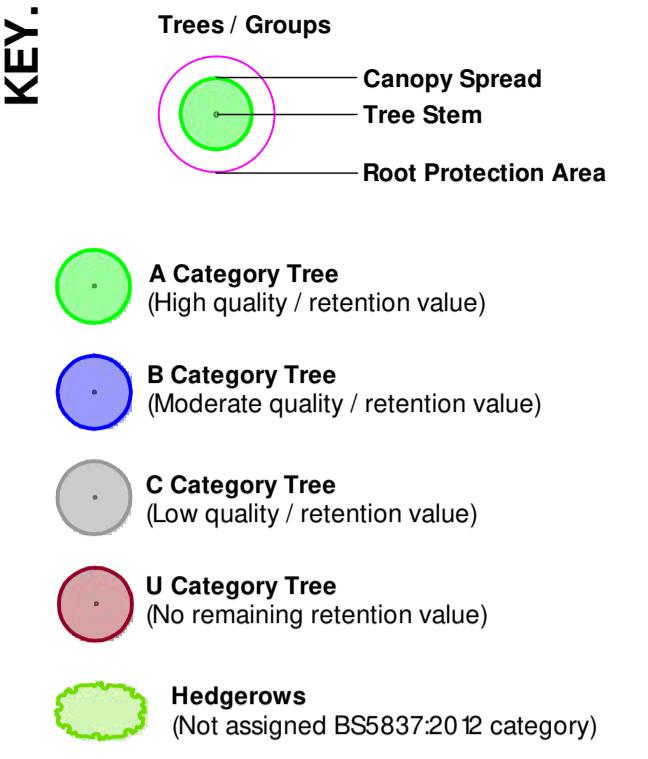
**BS5837:2012 TREE SCHEDULE**

DATE	CLIENT	SITE	REFERENCE
01/06/2023	ERM	Quinn Radiators, Newport	1575-TS-001-A

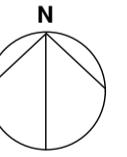
Tree No.	Common Name	Botanical Name	Height (m)	Stem Dia (mm)	Crown Spread (m)		Age Class	Phys Con	Struc Con	Additional notes	Preliminary recommendations	BS5837 Retention Category	RPA (m <sup>2</sup> )	RPA Radius (m)
					N	E	S	W						
G1	Wild cherry	Ave 13	Ave 230	See associated plans	2.5	E/Mat	Good	Fair	Part of the landscaping playing on site. Located within grassy verge on edge of parking. Minor deadwood associated with canopy.	Remove for proposed development	C2	See associated plans		
G2	Scots pine, Wild cherry	Min 7 - Max 16	Min 270 - Max 320	See associated plans	2.5	E/Mat	Good	Fair	Part of the landscaping playing on site. Located within grassy verge. Minor deadwood associated with canopy.	No work recommended at time of survey	C2	See associated plans		
G3	Common alder, Common dogwood, Common hawthorn, Common ash, Wild cherry, Pedunculate oak, Goat willow, Common lime	Min 4 - Max 18	Min 50 - Max 350	See associated plans	1	E/Mat	Good	Fair	Scrubby group on edge of site boundary. No access, attributes estimated. Part of the group enters due. Unmanaged with dense canopy. Offers good screening with adjacent road.	Remove for proposed development	C2	See associated plans		
G4	Wild cherry, Goat willow, Common lime	Min 3 - Max 12	Ave 250	See associated plans	2	E/Mat	Fair	Fair	Located on grass embankment. Trees are varied ages and quality. Dense vegetation throughout. Some large specimens located centrally.	Remove for proposed development	C1	See associated plans		
G5	Field maple, Silver birch, Common hazel, Goat willow	Min 4 - Max 12	Min 50 - Max 280	See associated plans	0.5	E/Mat	Fair	Fair	Group located directly off site behind steel fence. Unable to access base, attributes estimated.	Remove for proposed development	C2	See associated plans		
H1	Cherry laurel	Min 1 - Max 2.5	Min 50 - Max 90	See associated plans	0.2	S/Mat	Fair	Fair	Part of the landscaping on site. Hedge is of different agreed with smaller growth to western side. Gaps throughout.	Remove for proposed development	--	See associated plans		
H2	Common privet	Ave 1	Ave 75	See associated plans	0.2	S/Mat	Fair	Fair	Part of the landscaping on site. Dense with few gaps.	Remove for proposed development	--	See associated plans		

## **Appendix 3 – Plans**





**NOTES:**  
Tree locations are estimated from measurements on site. No topographical survey available at the time of tree survey.



Rev A Issue to client  
Rev Description

01062023



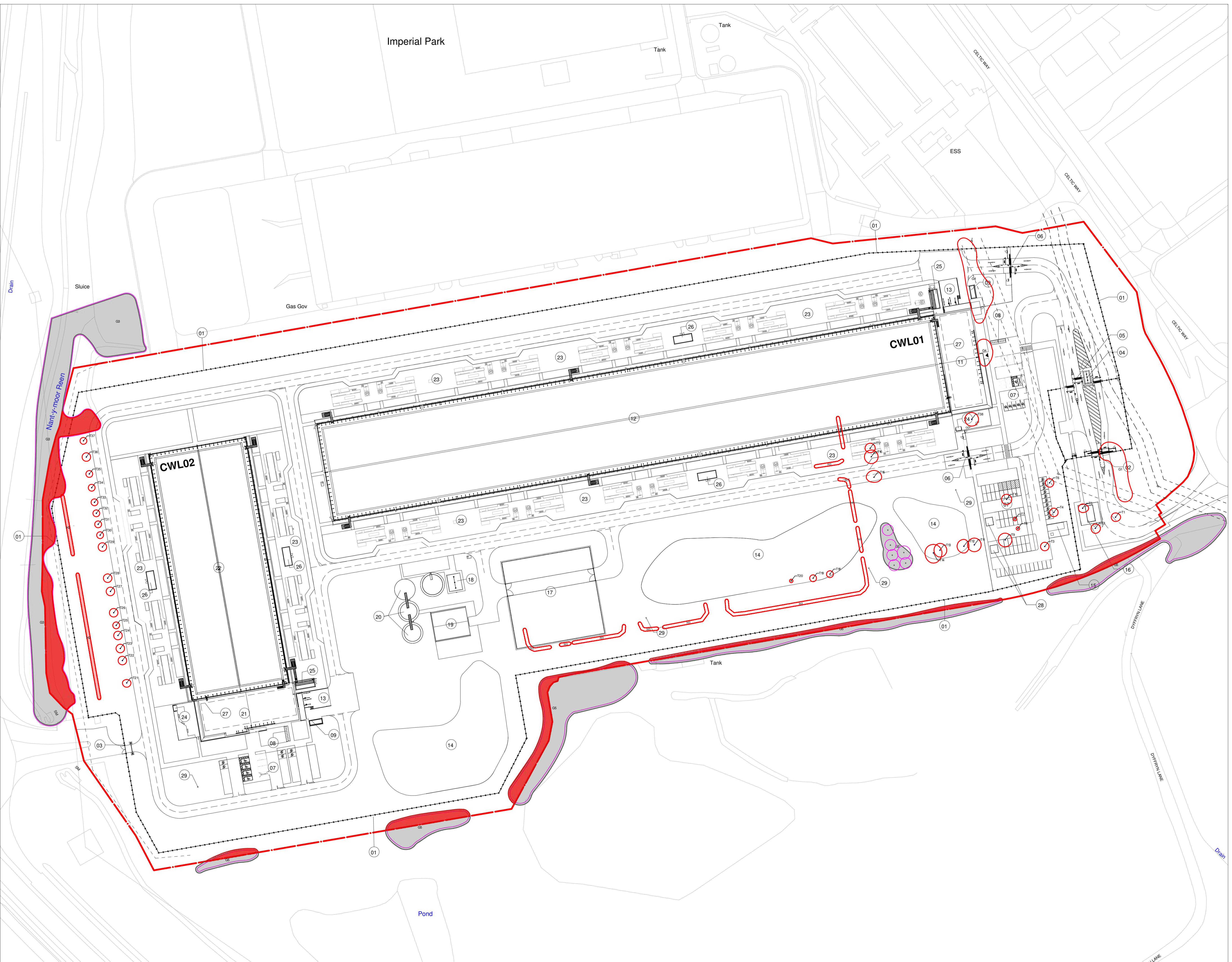
SEED Arboriculture Ltd  
Suite F6.1, Adelphi Mill, Bollington, Cheshire, SK10 5JB  
[www.seed-arb.co.uk](http://www.seed-arb.co.uk)

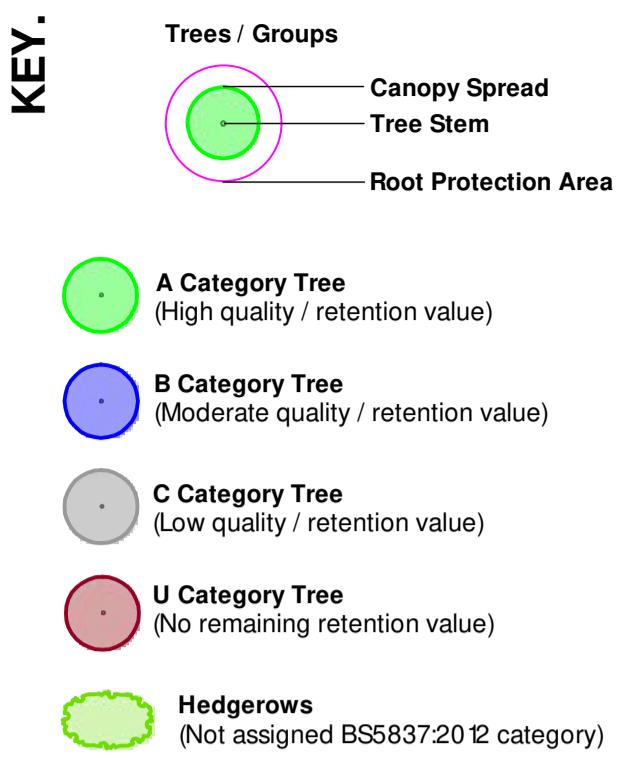
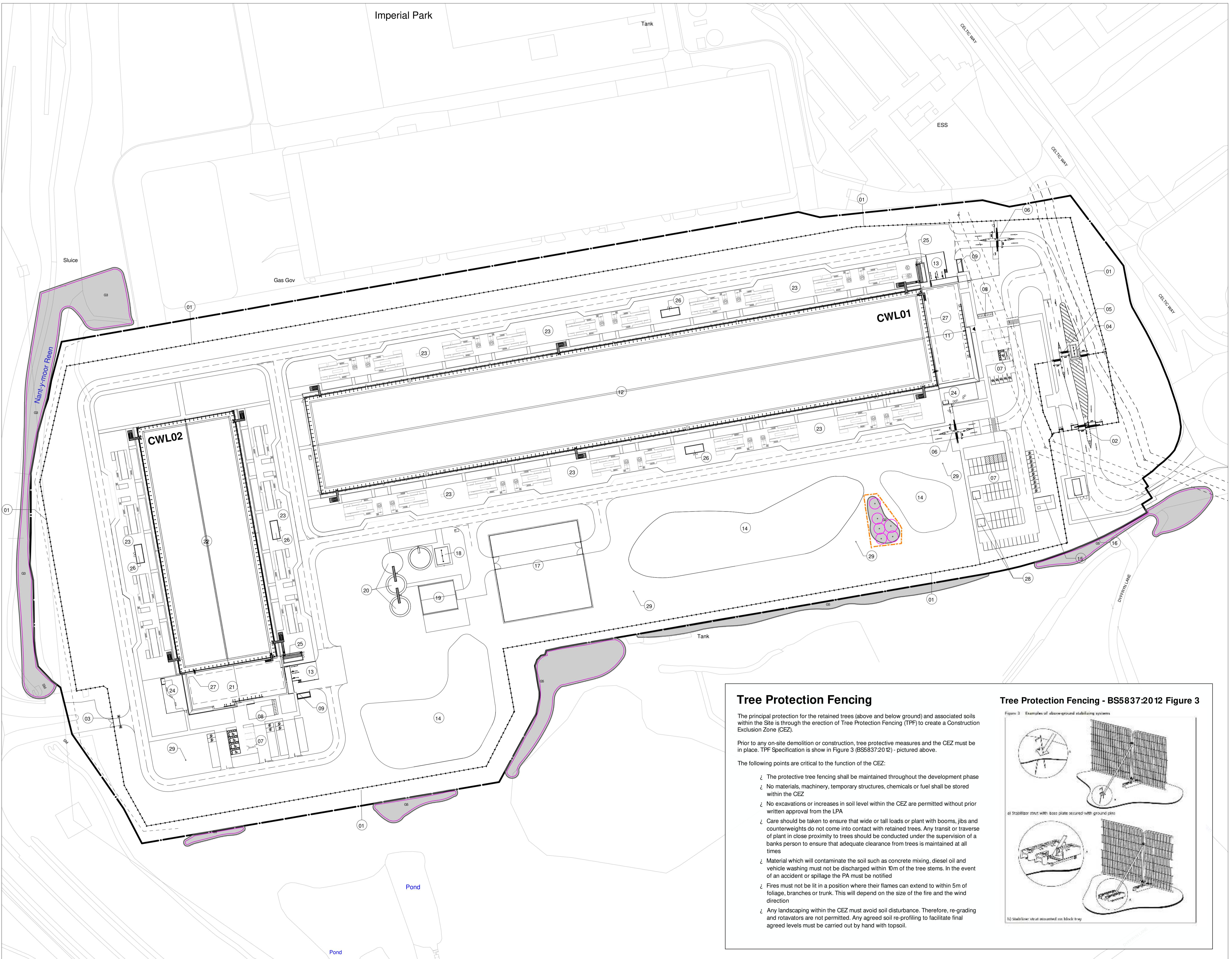
**PROJECT**  
Quinn Radiators, Newport

**TITLE**  
Tree Constraints Plan

**DRAWING REF** 1575-TCP-001-A **DRAWING NO** 001

**SCALE** 1:1000 @A1 **REVISION** Rev A

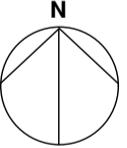




#### TREE PROTECTION

Tree Protection Fencing

**NOTES:**  
Tree locations are estimated from measurements on-site. No topographical survey available at the time of tree survey.



Rev C  
Rev B  
Rev A  
Rev

Update  
Layout change  
Issue to client  
Description

03.11.2023  
19.01.2023  
27.06.2023  
Date



SEED Arboriculture Ltd  
Suite F6.1, Adelphi Mill, Bollington, Cheshire, SK10 5JB  
[www.seed-arb.co.uk](http://www.seed-arb.co.uk)

**PROJECT**  
Quinn Radiator, Newport

**TITLE**  
Tree Protection Plan

**DRAWING REF**  
1575-TPP-003-C

**DRAWING NO**  
003

**SCALE**  
1:1000 @ A1

**REVISION**  
Rev C

## Appendix 4 – Tree Protective Fencing

### BS5837:2012 – Figure 3

Figure 3 Examples of above-ground stabilizing systems

