

LAND PLANNING & DESIGN

CUNNANE STRATTON REYNOLDS

TREE SURVEY

Limerick City Greenway,
Limerick.

July 2024

CUNNANE STRATTON REYNOLDS
LAND PLANNING & DESIGN
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SUMMARY

This report presents a record of those trees existing located along an existing pedestrian route following the southern bank of the River Shannon starting at the eastern side of University of Limerick campus and continuing west along the southern bank of the River Shannon as far as McLoughlin Road in the adjoining National Technology Park campus, where it then follows the Plassey Park Road out of the UL campus onto the Dublin Road and Annacotty. There is also a spur section through Kilmurray Student Village.

Trees have been surveyed as groups in the case of continuous areas of woodland that is broadly uniform in character, with any individual trees of particular merit or note within these groups being identified and surveyed individually, in accordance with BS 5837 (2012). Following initial site surveys undertaken in May and June 2021, the most recent survey was undertaken over February 2024 by Cunnane Stratton Reynolds arborist;

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Technician Member Arboricultural Association (UK)
Tree Risk Assessment Qualification (International Society of Arboriculture)
MA(Hons) Landscape Architecture
Member of the Irish Landscape Institute
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Diploma EIA Management

This survey and report are based on the topographic site survey information supplied in the following drawing;

- Apex Surveys – 2D Topographic Survey Dwg 4566 04/05/21

A full survey record is presented in Appendix 1, together with accompanying drawings Tree Constraints Dwg No 21537_T_101, Arboricultural Impact Assessment Dwg No 21537_T_102 and Tree Protection Plan Dwg No 21537_T_103. After introducing the terms of reference and the methodology of the survey, the report summarises the survey findings in an overview of the existing tree cover within the site.

A total of one hundred and thirty two individual trees and twenty-four tree groups were recorded as part of the survey.

The proposed route contains a very large number of number of trees, with riparian tree cover being almost continuous along this the River Shannon section. Tree quality varies over the route, with a mix of trees from low to high quality in all stages of development from sapling to veteran – collectively providing an exceptionally valuable continuum of tree cover both in arboricultural and ecological terms. Every effort has been made to access all trees for inspection, however in many instances site conditions prevent full access and measurements may be visually estimated.

The report concludes with recommendations for protection measures to ensure the conservation of retention trees during the proposed development.

1. INTRODUCTION

Terms of Reference

Cunnane Stratton Reynolds (CSR) were instructed to undertake a tree survey, to inform the planning, design and layout of a proposed cycleway by Ryan Hanley Consulting Engineers.

Following site surveys, CSR considered those tree and tree groups that might potentially be impacted by the proposed development and produced a subsequent tree survey report presenting our findings, (in accordance with BS 5837:2012), together with recommendations for their best practice management in relation to the proposed development.

This involved a survey of the principal trees / tree groups concerned in accordance with BS 5837 (2012).

Documents supplied to CSR for purposes of conducting a tree survey include:

- Apex Surveys – 2D Topographic Survey Dwg 4566 04/05/21
- Ryan Hanley – Proposed Compounds and Tree Clearing Plates 1-50.

Site Inspection & Methodology

The site was surveyed in May and June 2021 as well as February 2024 by a qualified Arborist walking the route. A visual inspection from the ground was performed on all relevant existing trees / tree groups on site. Where access allowed, principal individual trees were examined, and critical measurements were taken and observations made.

A description was recorded of trees / group of trees, their species, age class, all relevant measured dimensions (height, stem diameter, crown spread radii and crown clearance height) and an assessment of the tree health / vitality, structural form, life expectancy and quality categorisation. Any recommended remedial works required were outlined in accordance with BS 5837 (2012).

The findings of the survey are recorded and presented in this Tree Survey Report and Tree Schedule (Appendix 1). A Tree Classification and Constraints drawing was produced to inform the planning and design process. An Arboricultural Impact Assessment and Tree Protection Proposals were considered on completion of the proposed scheme layout.

This report is subject to the scope and limitations as given at the end of the report.

Accompanying Drawings

The tree survey report should be read in conjunction with;

- Tree Classification & Constraints (Dwg No 21537/T/101).
- Arboricultural Impact Assessment (Dwg No 21537/T/102).
- Tree Protection (Dwg No 21537/T/103).

A1 size colour coded drawings accompany this report, (monochrome drawings should not be relied upon). These drawings are based upon the topographical drawings supplied to CSR.

Site Location

The site is located between the eastern edge of University of Limerick campus on the southern banks of the river Shannon, passes through the National Technology Park and extends to Annacotty village Dublin Road.

2. DESCRIPTION OF EXISTING TREES

2.1 The route of the proposed cycleway, (approximate route highlighted red – Fig 1), starts in the east as an existing pedestrian riverside pathway hugging the southern bank of the River Shannon before linking into an existing path and cycleway network through IDA Ireland national technology Park, before exiting on to Dublin Road and travelling eastward through Annacotty.

The path servicing the western portion of the route located in the University of Limerick campus is a well-defined and maintained bound gravel surface, averaging 1.8m in width and is raised above the adjoining river on top of the embankment. This section of the route can be described as high-quality riverside woodland with a broad age profile from large veteran trees to self-regenerating saplings and other understory species. Natural riparian tree species such as Willow, Alder and Ash dominate however a number of other species such as Beech and Oak are also present, which are of an age that suggest they were probably planted by the original estate owners prior to the development of the University on these lands.

Approximately half-way along the route the path exits the University of Limerick campus and enters the adjoining IDA Ireland National Technology Park where it extends connections to existing footpaths and cycleways. Most of the trees in this section are relatively young roadside verge / street trees planted as part of the campus landscape scheme. The route exits the Technology Park at Dublin Road where it continues to the nearby Annacotty Village where it passes a mix of street trees .



Figure 1: Low resolution satellite image of approximate tree survey area in red (courtesy of Google Earth).

Their location, size and quality category may be reviewed with reference to the accompanying Tree Survey Dwg No 21537/T/101 and the tree survey (Appendix 1).

2.2 Photographic Summary of Trees Surveyed



T1



T2



T3/T4/T5



T6 / T7



T8



T9/T10



T11



T12



T13



Tree Group 22 (mixed broadleaf)



TG1



T14



T15



T16/T17



T18-T22



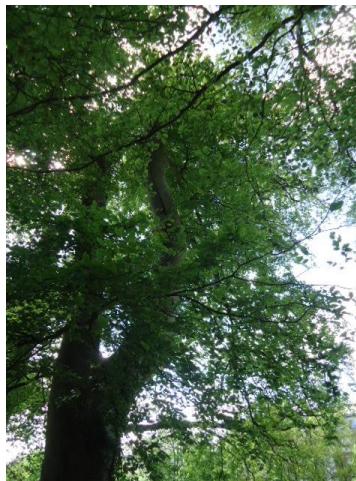
T23



T25



T25



T24



T26/T27/T28



T29



T31/T32



T33/T34





TG2



T35/T36/TG3/TG4



TG5



T37/T38



T37



T40/T41/T42/T43



T39



T41



T44/T44A/T44B



T45



T46



T47/T48/T49/TG6



T8



T52



T53



TG9



TG9



TG9



TG9



TG10/T57/T58/59



T55/T56



T61



T62



T63/T64



T65 / T66



T67/TG12



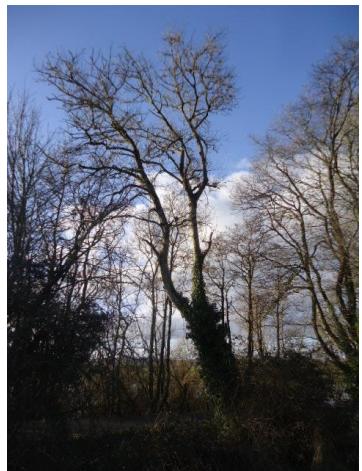
Tree Group 23 (mixed broadleaf)



Tree Groups 13-20 (Willow scrub)



T835



T888



T887



Tree Group 21 (Alder Willow mix to waterside / mixed broadleaf to fieldside)



T836



T837



T838



T839/T840



T841



T842



T843



T844/T845/T846



T847



T848



T849



T850



T851



T852



T853a/T853b



T854/T855/T856



T857



T858



T859



Tree Group 24



Tree Group 24



T860



T861



T862-T868



T869/T870/T871



T872/T873/T874/T875



T876



T877



T878



T879



T880



T881



T882



T883



T884



T885



T886

2.3 The proposed route alignment stretches from beyond UL Boathouse in the west to just beyond Annacotty village in the east.

The first half of the proposed cycle route, starting at from UL Boathouse and moving from east is based on an existing pedestrian walkway along the south side of the river Shannons embankment. Dense native riparian woodland dominated by Alder and Willow is generally present on the riverbank side of the path with dense high-quality mixed broadleaf woodland composed mainly of native and naturalised tree species is generally present of the other side of the path.

The age profile of this woodland is balanced with a healthy understory of emerging saplings in addition to the upper canopy of middle aged and mature trees.

A number of the trees are of exceptional age and size and are probably originally associated with the historic Plassey House domain. Whilst many of these old trees have significant defects, (which is normal in trees of this age), there is evidence that they are being proactively managed in such as manner as they can be retained at an acceptable level of risk – for example trees with significant cavities resulting in structural weakness have been ‘monolithed’ or reduced to a safe height.

This is an appropriate management strategy and allows the retention of the significant benefits trees of this age offer such as ecological and habitat value, heritage value, genetic diversity and aesthetic benefit.

The significant size of many of these trees means that their root zones are likely to extend for significant distances as illustrated in the Classification & Constraints Dwg 21537_T_101.

The spur access departs from the riverside path at Kilmurry Village, running south east parallel to an established linear group of early mature mixed deciduous trees, (largely utilising existing pedestrian and vehicular surfaces).

The riverside path continues eastwards until just before the ruins of Castletroy, where it diverges from the river course to meet and follow McLoughlin Drive within the National Technology Park, where it passes a mix of young to early mature street trees. From this point the path links with existing active travel infrastructure on Plassey park Road before eventually exiting on to the Dublin Road. After a short distance it diverts on to the Ashgrove Road to Annacotty village passing a relatively small number of street and garden trees before crossing the Mulkear River and exiting the village at the St Vincent's Special School Entrance to rejoin the Dublin Road, where it runs parallel to an agricultural field with a number of mature trees before ending at the R506 junction.

Trees often become more valuable as collective groups, than they might be when considered solely as individuals in isolation - a grouping or woodland being generally of significant visual and ecological value. As such it should be noted that the cumulative value of evaluated Tree Groups often reflects an increased categorised value than might be awarded to the constituent trees if they were assessed in isolation as individuals.

3. ARBORICULTURAL IMPACT ASSESSMENT

3.1 This section discusses the potential impact of the proposed development on the existing tree cover on site and considers the need for mitigation measures, in accordance with BS 5837 (2012), for sustainable development.

3.2 Category 'U' trees are recommended for immediate removal, (fell or monolith to safe height), on general management grounds, irrespective of site development – no U class trees were identified as such during this survey.

Direct Loss of Trees

3.3 The proposed greenway route alignment has in so far as possible sought to avoid direct conflict with existing trees in order to minimise impacts and tree loss.

In some cases the proposed alignment may not clash directly with the tree, but it may traverse a portion of the trees root protection area. Where feasible alternative non-dig construction method has been employed to avoid compromising the trees roots and loosing the tree.

There are situations however where avoidance or alternative construction methods are not possible for a variety of different reasons, resulting in the requirement to remove some trees to facilitate the proposed development.

The proposed scheme is currently in conflict with the following trees and or a significant portion of their calculated root protection area, making their retention unviable in the context of the proposed development.

Tag No	Tree Species	Tree Class	Number of trees
T6	Ash (<i>Fraxinus excelsior</i>)	B1	1
T7	Ash (<i>Fraxinus excelsior</i>)	B1	1
T12	Ash (<i>Fraxinus excelsior</i>)	B2	1
T41	Beech (<i>Fagus sylvatica</i>)	B1	1
T48	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T49	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T51	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T837	Ash (<i>Fraxinus excelsior</i>)	C1	1
T840	Ash (<i>Fraxinus excelsior</i>)	C1	1
T841	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T842	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T843	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T852	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T853	Sycamore (<i>Acer pseudoplatanus</i>)	B1	1
T888	Ash (<i>Fraxinus excelsior</i>)	U	1
TG4	Mixed broadleaf	B2	Approx 21
TG8	White Willow (<i>Salix Alba</i>)	B2	5
TG20	White Willow (<i>Salix Alba</i>)	B2	Approx 10
TG21	Mixed broadleaf	B2	2
TG22	Mixed broadleaf	B2	Approx 15
TG24	Mixed broadleaf & Leylandii	B2	Approx 17

Indirect Impacts

3.4 Cognisance must also be given to indirect impacts - in particular care must be taken to ensure the proposed development and ancillary works do not represent an unacceptable conflict with the calculated 'Root Protection Area' of the existing trees proposed for retention.

Disturbance of 'Root Protection Area' may just as readily kill or destabilise a tree over time, by means of root damage/severance and or earth compaction/covering preventing essential transfer of water, air and nutrients to roots.

A significant portion of the proposed greenway proposes the use of a specialist non-dig construction method, (as detailed on the tree protection drawing Dwg 21537_T_103), as an alternative to traditional path construction method which allows the route to traverse portions of tree root protection areas without compromising the trees long term viability.

Good planning and site management therefore will be required during construction works to ensure these areas are not adversely impacted by construction activities. It is important that the site manager carefully review the tree protection drawing Dwg 21537_T_103, prior to commencement of works on site and raise any queries prior to commencement of works.

The use of tree protection fencing to exclude construction access to root protection areas of trees and hedgerows identified for retention, as illustrated in tree protection drawing Dwg 21537_T_103, will be critical to avoiding detrimental impacts and the long-term viability of the retained tree.

Proposed tree protection measures should be in place from the outset prior to the commencement of works. Any queries should be raised with the project Arborist prior to commencement of works on site.

Provided proper tree protection measures are adhered to it is not anticipated that any further trees will require removal due to indirect impacts.

Additional Considerations

3.5 Scrub and tree removal should take place outside the bird nesting season (1st March – 31st August).

'Ash dieback' is a disease caused by the *Hymenoscyphus fraxineus* fungi which is developing rapidly across Ireland since its presence was first detected in Ireland in 2012. The disease is spread by windborne spores and once a tree is infected it will lead to its terminal decline within a few years.

At present there is no available remedy and the outlook for the survival of Ash trees in Ireland is poor, with infection rates appearing to accelerate over the past couple of years. It is hoped that genetic diversity may mean some trees might prove resistant to the disease, however there is still great uncertainty at this time regarding survival rates. The Woodland Trust estimate that at least 80% of Ash trees in the UK will die.

The retention or removal of Ash trees must therefore be viewed in the context of Ash Dieback disease, and the likelihood that at least 80% of Ash trees are likely to die over the coming years.

New tree planting. The proposed development offers an opportunity for new tree planting which will assist in mitigating against proposed losses. It is suggested that a mix of species be planted using native and high ecological value non-native trees to mitigate against loss of existing trees and their associated ecological value.

Summary

3.6 Table 1 illustrates trees to be removed and their classification.

Table 1.

Tree Class	Trees proposed for removal
A Class Trees (High Quality)	0
B Class Trees (Moderate Quality)	82
C Class Trees (Low Quality)	2
U Class Trees (Recommended Removal)	1
TOTAL	85

Tree Protection

3.7 Adequate protection and so successful retention of those trees to be retained within the land take area, will be achieved by rigidly excluding all construction activities from tree root protection areas by fit for purpose barriers/fencing and/or additional ground protection.

3.8 Tree Protection Areas (TPAs) are proposed, as indicated on accompanying Tree Protection Plan (Dwg No 23375_T_103). Protective fence line locations and details for these fences are also illustrated on the plan.

Services

3.9 Any services that are planned as part of this project must also avoid designated 'Root Protection Area' of tree / tree groups for retention.

4. RECOMMENDATIONS – Arboricultural Method Statement

Recommendations for the specific measures advised regarding management of the trees in relation to this development are detailed within Appendix 1, (note some recommendations may be superseded by tree removal in some instances - if planning is granted). These recommendations should inform, and be referred to in, the method statements submitted for approval prior to commencement by the responsible building/engineering and landscape contractors whose works (subject to grant of permission) will affect retained trees and the Tree Protection Areas.

1. Tree Works.

Subject to the required permissions removal / felling works as specified on Dwg No 21537_T_102, should be performed prior to project commencement, by reputable contractors in accordance with BS 3998:2010 and current best practice. (Removal of scrub vegetation and ivy clearance should preferably be performed in winter outside of the bird nesting season. Tree felling should be preceded by a competent assessment as to the presence of any protected wildlife species, where required specialist advice should be sought if necessary).

2. Protective Fencing.

Protective fencing (barriers) should be erected in the positions and alignments as indicated on the Tree Protection Plan (Dwg No 21537_T_102).

Fencing should be in accordance with BS 5837:2012 unless otherwise agreed with the planning authority. Commencement of development should not be permitted without adequate protective fencing being in place. This fencing, enclosing the minimum tree protection areas indicated, must be installed prior to any plant, vehicle or machinery access on site. Fencing should be signed 'Tree Protection Area – No Construction Access'. Fencing is not to be taken down or re-positioned without written approval of the project Arborist. No excavation, plant or vehicle movement, materials handling or soil storage is to be permitted within the fenced tree protection areas indicated on plan.

4. Non dig path construction

The proposed development includes a section of footpath and cycleway which traverses root protection areas of trees proposed for retention. In order to achieve these without compromising the trees, a non-dig construction method such as Cellweb TRP, (installed in full accordance with manufacturers specifications), must be used in conjunction with a permeable asphalt surface finish, (refer to Dwg No 21537_T_103 for details).

5. Landscape Works

Proposed landscaping works including new planting, shall be performed in accordance with BS 5837:2012. During these works, the ground around retained trees must not compacted by vehicles, nor be mechanically excavated for planting, nor be significantly altered in terms of ground levels.

6. Monitoring & Compliance

As there are a number of critical tree protection works required in order to ensure the successful retention of many of the existing trees. It is therefore recommended that a professionally qualified Arborist be consulted on an ongoing basis as required by the principal contractor or developer during the construction phase to monitor compliance and advise as issues arise.

It is advised that tree protection fencing, any required special engineering and supervision works etc must be included / itemised in the main contractor tender document, including responsibility for the installation, costs and maintenance of tree protection measures throughout all construction phases.

Copies of the Tree Survey and all accompanying drawings, a copy of BS 5837:2012 and NJUG 4 (2007) '*Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees*' should all be kept available on site by the contractor during development. All works are to be in accordance with these documents.

Limitations and Scope of this Survey Report

This report covers only those trees individually inspected, (shown on the 'Tree Survey Drawings' and described in the 'Schedule'), reflecting the condition of those trees at the time of inspection. Inspection is limited to visual examination of the subject trees from the ground without; test boring, use of tomographic equipment, dissection, probing, coring, ivy removal or excavation to establish structural integrity.

The trees were not climbed and dimensions are approximate, but considered a reasonable reflection of the trees measurements. A number of trees were visually obscured by heavy ivy / epicormic growth / scrub vegetation, which could potentially hide from view existing faults or weaknesses, as such they would benefit from re-inspection upon removal of such growth. This survey can only therefore be regarded as a preliminary assessment.

There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the subject trees may not arise in the future. The currency of this survey report and its recommendations is one year.

The accompanying drawings are illustrative and based on the land (topographical) survey information supplied; CSR Ltd accept no legal liability or responsibility for any errors in the information contained in the supplied drawings.

CSR Ltd accept no responsibility for the performance of trees subject to pruning or other site works (including construction activities) not performed in strict accordance with recommendations as specified in this report and/or in accordance with BS 3998:2010 and BS 5837:2012

All retained trees mentioned in this report should be subject to expert re-inspection within 12 months and prior to completion of development works and public occupancy of the site.

This report was produced as a part of a planning application for the scheme; the author accepts no responsibility or liability for actions taken by reason of this report by the client or their agents unless subsequent contractual arrangements are agreed. Public disclosure or submission of any part of this report without title, or permission from the author, renders this report invalid and legally inadmissible.

References/Bibliography

BS 5837 (2012). *Trees in Relation to Design, Demolition and Construction - Recommendations*. British Standards Institution. TSO, London.

BS 3998 (2010) *Tree Work - Recommendations*. British Standards Institution. TSO, London.

NJUG 4 (2007) *Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees (Issue 2)*. National Joint Utilities Group

TREE SURVEY KEY

Information in the attached schedule is given under the following headings:

Tree No.

Individual trees have been numbered and tagged on site with corresponding survey tag or treated as a group where appropriate (e.g. Woodlands/hedgerows) and illustrated on accompanying tree survey drawing.

Species

Common & Latin names of species are provided

Height

Overall estimated height given in meters (measured using Truplus 200 Laser Rangefinder).

Stem Diameter

The diameter of the main trunk taken at a height of 1.5m on a single stem tree, or, on each branch of multi-stemmed (MS) trees.

Crown Spread

The largest radius of branch spread is provided in meters for North / East / South and West directions.

Height of lowest branch

The distance between ground level and first significant branch or canopy (and direction of growth) given in meters (m).

Any measurement or dimension that has been estimated (for offsite or otherwise inaccessible trees where accurate data cannot be recovered) is identified by the suffix #.

Life stage

The tree's age is defined as:

Y = Young, in first third of life (tree which has been planted in the last 10 years or is less than 1/3 the expected height of the species in question).

MA = Middle Age, in second third of life (tree, which is between a 1/3 and 2/3's the expected height of the species in question).

M = Mature, in final third of life (tree that has reached the expected height of the species in question, but still increasing in size).

OM = Over mature (tree at the end of its life cycle and the crown is starting to break up and decrease in size).

V = Veteran Tree (exceptionally old tree).

Physiological Condition

The tree's physiological condition is defined as:

Good - Good vitality: normal bud growth, leaf size, crown density and wound closure

Fair - Average to below average vitality: reduced bud growth, smaller leaf size, lower crown density and reduced wound closure

Poor - Low vitality: limited bud growth, small chlorotic leaves, sparse crown, poor wound closure

Dead - No longer living.

Structural Condition

The trees structural condition is defined as:

Good - No major structural defects observed (possibly some minor defects)

Fair - Minor defects present, (such as bark wounds, isolated decay pockets or structure affected due to overcrowding), that could be alleviated by tree surgery/management

Poor - Major structural defects present such as extensive deadwood, decay or defective to the point of being dangerous. (Significant defects are noted e.g. decay, collapsing etc).

Preliminary Management Recommendations & Timescale

Recommendations actions based on limitations of survey – (may include further investigation and or assessment of suspected defects by means and or methods not undertaken / within the remit of this survey).

Estimated Remaining contribution (Years)

Life of the tree is given as;

- 10 < less than 10 years remaining
- 10 + in excess of 10 years remaining
- 20 + in excess of 20 years remaining
- 40 + in excess of 40 years remaining

Tree Quality Assessment Category

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

- Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal

of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)

- Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline
- Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality

(NOTE: Category U trees can have existing or potential conservation value which it might be desirable to preserve).

A High quality

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

A1 Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)

A2 Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features

A3 Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)

B Moderate quality

Those trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

B1 Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.

B2 Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.

B3 Trees with material conservation or other cultural value

C Low quality

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

C1 Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.

C2 Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits.

C3 Trees with no material conservation or other cultural value.

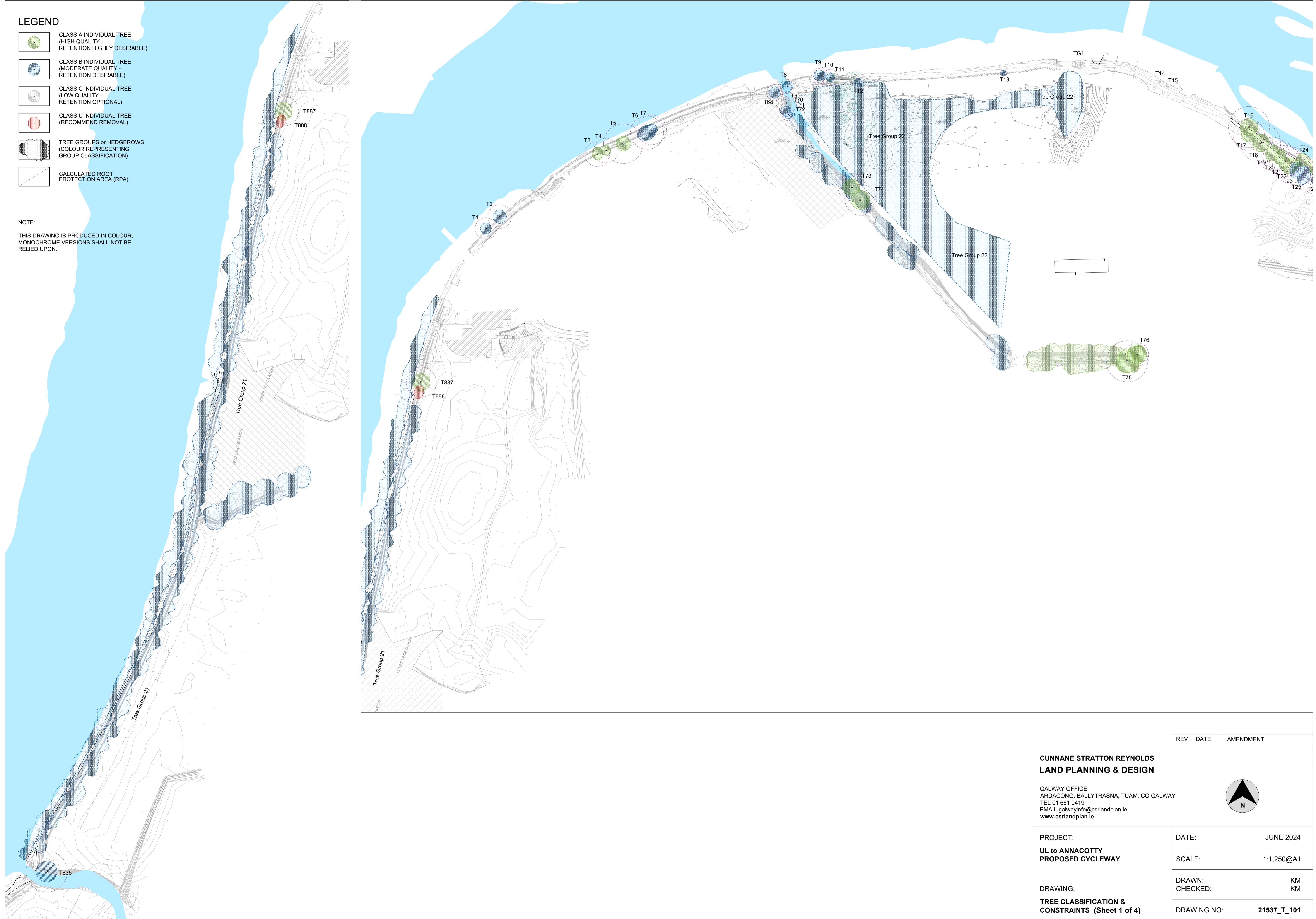
APPENDIX 1

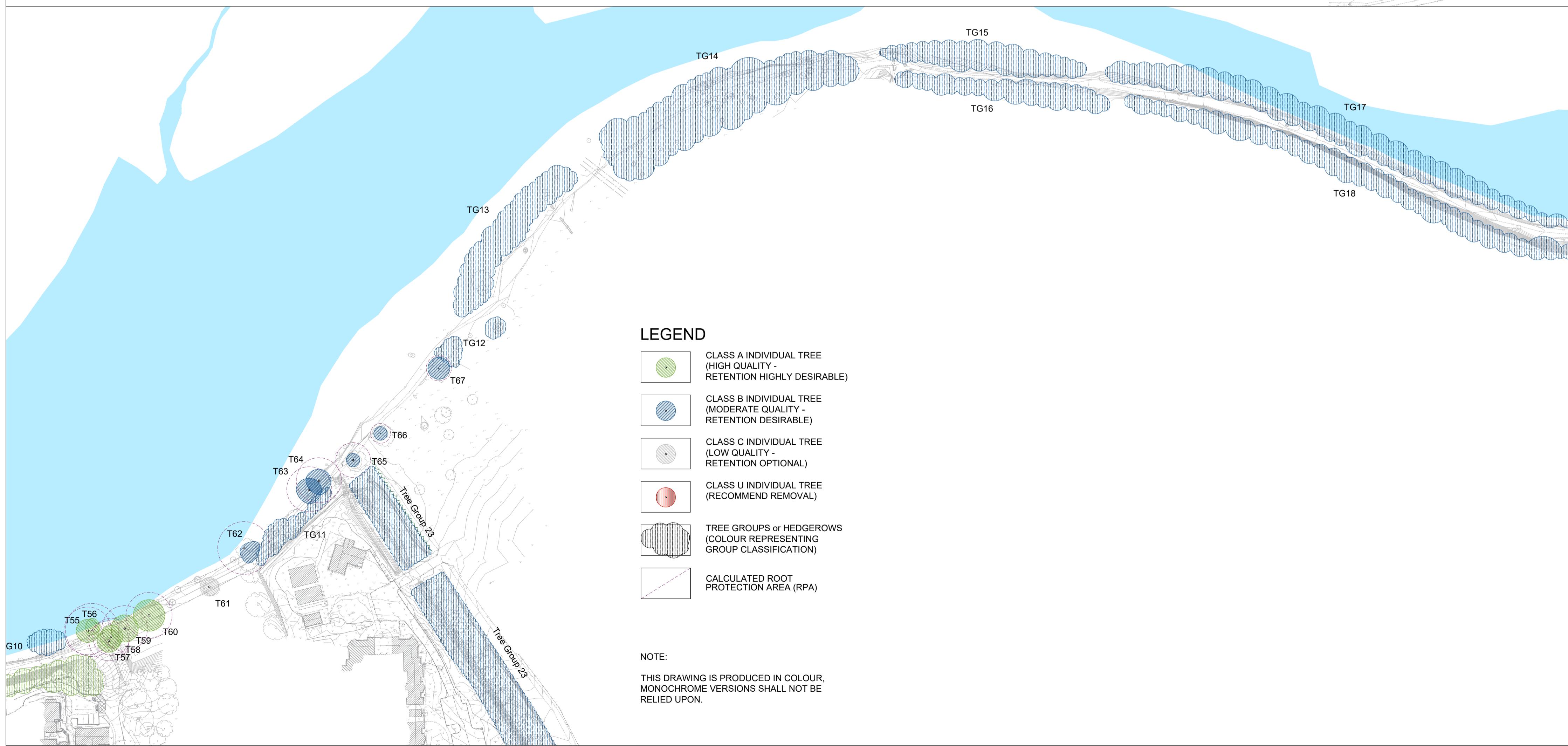
No	Species	Height (m)	Crown Spread (m) N/S/E/W	Diameter (mm)@ 1.5m	RPA circle radius (m)	Lowest branch (m) & direction of growth	Life Stage	Estimated remaining years	Physiological Condition	Structural Condition	Preliminary management recommendations	Category of retention + sub-category	Notes
1	<i>Fraxinus excelsior</i>	15	4/4/4/4	300x5	8.04	0m all	MA	40+	Good	Fair		B1	
2	<i>Fraxinus excelsior</i>	15	5/5/5/5	300x6	8.81	0m all	MA	40+	Good	Fair		B1	
3	<i>Quercus robur</i>	14	5/4/3/3	750	9.00	2m all	MA	40+	Good	Fair	Remove Ivy	A1	
4	<i>Quercus robur</i>	13	4/3/3/3	750	9.00	2m all	MA	40+	Good	Fair	Remove Ivy	A1	
5	<i>Quercus robur</i>	16	5/5/5/5	1200	14.40	4m all	MA	40+	Good	Fair	Remove Ivy & Crown Clean	A1	
6	<i>Fraxinus excelsior</i>	16	5/5/6/6	1000	12.00	4m all	MA	40+	Good	Fair	Remove Ivy & Crown Clean	B1	
7	<i>Fraxinus excelsior</i>	17	4/4/4/4	900	10.80	3m all	MA	40+	Good	Fair	Remove Ivy & Crown Clean	B1	
8	<i>Fraxinus excelsior</i>	11	4/4/4/4	250x3	5.20	1m all	MA	40+	Fair	Fair	Remove Ivy	B2	Ash dieback
9	<i>Fraxinus excelsior</i>	12	4/4/4/4	250x3	5.20	0m all	MA	40+	Fair	Fair	Remove Ivy	B2	
10	<i>Fraxinus excelsior</i>	11	3/3/4/4	250x4	6.00	0m all	MA	40+	Good	Fair	Remove Ivy	B2	
11	<i>Fraxinus excelsior</i>	12	3/3/3/3	350x2	5.94	0m all	MA	40+	Good	Fair	Remove Ivy	B1	
12	<i>Fraxinus excelsior</i>	10	3/3/3/3	220	2.64	3m s	Y	40+	Good	Good		B2	
13	<i>Fraxinus excelsior</i>	9	2/2/2/2	200	2.40	5m all	Y	40+	Good	Good		B2	
14	<i>Populus nigra</i>	6	1/1/1/1	80	0.96	2m all	Y	40+	Good	Good		C1	
15	<i>Quercus robur</i>	4	1/1/1/1	50	0.60	1m all	Y	40+	Good	Good		C1	
16	<i>Fagus sylvatica</i>	17	6/6/6/6	1250	15.00	3m all	M	40+	Good	Fair		A1	
17	<i>Fagus sylvatica</i>	15	5/5/5/5	950	11.40	4m all	M	40+	Good	Fair		A1	occluded wound
18	<i>Fagus sylvatica</i>	22	6/6/6/6	1200	14.40	4m all	M	40+	Good	Fair		A1	
19	<i>Fagus sylvatica</i>	20	6/5/5/5	1000	12.00	3m all	M	40+	Good	Fair	Remove Ivy	A1	
20	<i>Fagus sylvatica</i>	17	6/5/4/4	980	11.76	3m all	M	40+	Good	Fair	Remove Ivy	A1	
21	<i>Fagus sylvatica</i>	20	3/6/4/4	950	11.40	4m all	M	40+	Good	Fair	Remove Ivy	A1	
22	<i>Fagus sylvatica</i>	22	5/6/5/5	1100	13.20	4m all	M	40+	Good	Fair	Remove Ivy	A1	
23	<i>Fagus sylvatica</i>	16	5/6/5/5	980	11.76	4m all	M	10+	Good	Poor	Monolith	B1	cavity / split bole
24	<i>Fagus sylvatica</i>	18	6/4/5/5	970	11.64	5m all	M	40+	Good	Fair		A1	
25	<i>Fagus sylvatica</i>	15	5/8/5/5	1010	12.12	2m s	M	10+	Fair	Poor	Monolith	B1	decay cavity x2
26	<i>Fagus sylvatica</i>	17	7/0/5/5	950	11.40	6m all	MA	40+	Good	Fair	Remove Ivy	A1	
27	<i>Fagus sylvatica</i>	14	6/3/4/4	680	8.16	4m all	MA	40+	Good	Fair	Remove Ivy	A1	
28	<i>Fagus sylvatica</i>	18	7/2/5/5	720	8.64	5 n	MA	40+	Good	Fair	Remove Ivy	A1	
29	<i>Fagus sylvatica</i>	10	3/3/3/3	850	10.20	5m all	MA	20+	Good	Poor	Remove ivy	B1	monolith (cavity)
30	<i>Fagus sylvatica</i>	15	4/5/5/5	1000	12.00	6m all	MA	40+	Good	Fair	Remove Ivy	A1	heavily obscured
31	<i>Fagus sylvatica</i>	15	5/5/5/5	1100	13.20	4m all	M	40+	Good	Fair	Remove Ivy	A1	heavily obscured
32	<i>Fagus sylvatica</i>	15	5/5/5/5	1250	15.00	3m all	M	40+	Good	Fair	Remove Ivy	A1	
33	<i>Quercus robur</i>	9	3/3/3/3	350	4.20	1m w	Y	40+	Good	Fair		B1	
34	<i>Fagus sylvatica</i>	14	6/6/6/6	600	7.20	1m all	MA	40+	Good	Fair	Remove Ivy	A1	
35	<i>Castanea sativa</i>	11	5/5/4/4	900	10.80	4m n	M	20+	Good	Fair	Remove Ivy	B1	heavily obscured
36	<i>Castanea sativa</i>	8	4/4/6/6	900	10.80	0m all	M	20+	Good	Fair		B1	fallen tree
37	<i>Castanea sativa</i>	13	4/8/3/3	1400	15.00	1m s	V	20+	Fair	Fair	Remove Ivy	A1	
38	<i>Fagus sylvatica</i>	15	5/5/5/5	620	7.44	3m all	MA	40+	Good	Good	Remove Ivy	A1	
39	<i>Fagus sylvatica</i>	16	7/7/7/7	850	10.20	4m all	MA	40+	Good	Fair	Remove Ivy	A1	cavity
40	<i>Fagus sylvatica</i>	17	7/7/7/7	600	7.20	3m e/w	MA	40+	Good	Good		A1	

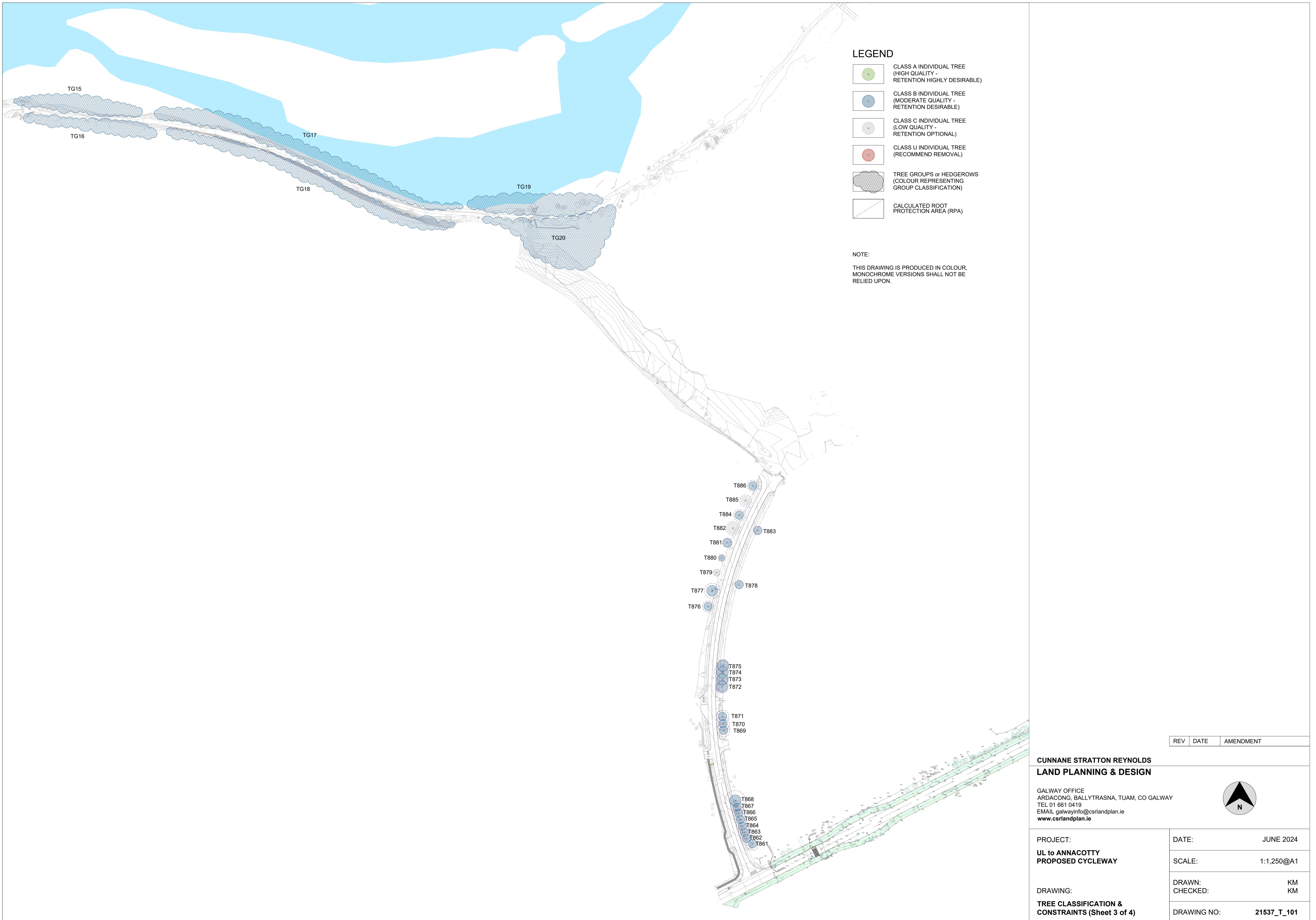
No	Species	Height (m)	Crown Spread (m) N/S/E/W	Dia' (mm)@ 1.5m	RPA circle radius (m)	Lowest branch (m) & direction of growth	Life Stage	Estimated remaining years	Physiological Condition	Structural Condition	Preliminary management recommendations	Category of retention + sub-category	Notes
41	<i>Fagus sylvatica</i>	19	9/6/7/7	1300	15.00	8m all	OM	20+	Good	Poor		B1	cavity (fall to river)
42	<i>Fagus sylvatica</i>	19	5/8/5/5	660	7.92	4m all	MA	40+	Good	Fair		A1	
43	<i>Fagus sylvatica</i>	19	8/7/8/8	1280	15.00	5m all	M	40+	Good	Fair		A1	
44	<i>Fagus sylvatica</i>	18	8/5/5/5	1100	13.20	4m n	M	40+	Good	Fair		A1	
44a	<i>Aesculus hippocastanum</i>	15	7/2/4/4	650	7.80	3m all	MA	40+	Good	Fair		A1	
44b	<i>Fagus sylvatica</i>	18	7/7/7/7	980	11.76	4m e	M	40+	Good	Fair		A1	
45	<i>Acer pseudoplatanus</i>	13	4/6/5/2	700	8.40	2m e	MA	40+	Good	Fair		B1	
46	<i>Fraxinus excelsior</i>	16	6/6/6/6	700/400	9.67	1m n	MA	40+	Good	Fair		A1	
				800/700/									
47	<i>Quercus robur</i>	17	9/9/9/9	500/400	14.88	0m all	M	40+	Good	Good		A1	exceptional
48	<i>Acer pseudoplatanus</i>	15	5/5/5/5	750	9.00	6m all	MA	40+	Good	Fair		B1	
49	<i>Acer pseudoplatanus</i>	15	5/5/5/5	750	9.00	8m all	MA	40+	Good	Fair		B1	
50	<i>Fraxinus excelsior</i>	16	5/5/5/5	900	10.80	3m all	MA	10<	Poor	Fair		C1	severe dieback
51	<i>Acer pseudoplatanus</i>	12	4/4/4/4	550	6.60	4m all	MA	40+	Good	Fair		B1	
52	<i>Fraxinus excelsior</i>	10	7/1/3/3	700	8.40	4m all	MA	40+	Fair	Fair		B1	overhangs path
53	<i>Salix alba</i>	19	7/6/5/5	1250	15.00	3m n/s	M	40+	Good	Fair		A1	
54				0.00					Dead			C1	
55	<i>Ulmus sp.</i>	18	5/5/5/5	900	10.80	8m all	MA	40+	Good	Fair		A1	
56	<i>Ulmus sp.</i>	18	5/3/3/0	1000	12.00	8m all	MA	40+	Good	Fair		A1	
57	<i>Pinus sylvestris</i>	18	5/5/5/5	750	9.00	4m all	MA	40+	Good	Fair		A1	
58	<i>Fagus sylvatica</i>	18	5/5/5/5	700	8.40	3m all	MA	40+	Good	Fair		A1	
59	<i>Populus alba</i>	20	6/6/6/6	860	10.32	8m all	M	40+	Good	Fair		A1	
60	<i>Populus alba</i>	20	7/7/7/7	870	10.44	7m all	M	40+	Good	Fair		A1	
61				0.00					Dead				
62	<i>Aesculus hippocastanum</i>	12	1/7/7/1	1000	12.00	0m all	OM	10+	Fair	Fair		B2	fallen tree regrowth
63	<i>Salix alba</i>	14	5/7/6/6	500x3	10.39	0m all	M	20+	Good	Fair		B2	fallen tree regrowth
64	<i>Salix alba</i>	14	5/7/6/6	500x3	10.39	0m all	M	20+	Good	Fair		B2	fallen tree regrowth
65	<i>Alnus glutinosa</i>	8	3/3/3/3	300x5	8.04	0m all	Y	40+	Good	Fair		B2	
66	<i>Quercus robur</i>	6	3/3/3/3	375	4.50	0m all	Y	40+	Good	Fair		B2	
67	<i>Quercus robur</i>	9	5/5/5/5	480	5.76	1m all	MA	40+	Good	Good		B1	
68	<i>Crataegus monogyna</i>	8	4/4/4/4	350x2	5.93	1m all	M	20+	Good	Good	Remove Ivy	B1	
69	<i>Crataegus monogyna</i>	5	2/0/2/2	180	2.16	3m all	MA	20+	Fair	Fair	Remove Ivy	C1	
70	<i>Fraxinus excelsior</i>	9	4/4/4/4	450x2	7.63	1m all	MA	10<	Poor	Fair	Fell	C1	Ash dieback
71	<i>Fraxinus excelsior</i>	10	2/4/4/6	200x3	4.15	1m all	MA	40+	Good	Fair	Remove Ivy & Crown Clean	B1	
72	<i>Alnus glutinosa</i>	13	2/3/3/3	375x2	4.50	1m n/s	MA	40+	Good	Fair	Remove Ivy & Crown Clean	B1	
73	<i>Fraxinus excelsior</i>	18	6/6/6/6	450x4	10.08	1m all	MA	40+	Good	Fair	Remove Ivy & Crown Clean	A1	
74	<i>Fraxinus excelsior</i>	20	7/7/7/7	480x4	11.52	1m all	MA	40+	Good	Fair	Remove Ivy & Crown Clean	A1	
75	<i>Quercus robur</i>	18	8/8/8/8	1250	15.00	6m all	M	40+	Good	Fair	Remove Ivy & Crown Clean	A1	exceptional
76	<i>Aesculus hippocastanum</i>	16	7/7/7/7	700	8.40	6m all	M	40+	Good	Fair	Remove Ivy & Crown Clean	A1	v good

Tag	Species	Height (m)	Crown Spread (m) N/S/E/W	Girth (mm)@ 1.5m	RPA circle radius (m)	Lowest branch (m) & direction of growth	Life stage	Estimated remaining contribution (years)	Physiological Condition	Structural Condition	Preliminary management recommendations	Category of retention + sub-category	Notes
835	<i>Salix alba</i>	5	5/5/5/5	1250	15.00	0m all		20+	Fair	Fair		B1	branch split
836	<i>Fagus sylvatica</i>	28	5/4/5/5	850	10.20	8m nw		40+	Good	Fair	Crown Clean	A1	dead branch
837	<i>Fraxinus excelsior</i>	9	3/1/2/2	190	2.28	4m all		10<	Poor	Fair		C1	ash dieback
838	<i>Fagus sylvatica</i>	28	6/6/6/6	980	11.76	3m s		40+	Good	Fair	Crown Clean	A1	compression fork investigate
839	<i>Fraxinus excelsior</i>	9	1/2/2/2	180	2.16	3m all		10<	Fair	Poor		C1	Ash dieback
840	<i>Fraxinus excelsior</i>	9	1/2/2/2	170	2.04	3m all		10<	Fair	Poor		C1	Ash dieback
841	<i>Acer pseudoplatanus</i>	10	3/3/3/4	400	4.80	4m e/w		40+	Good	Fair		B1	
842	<i>Acer pseudoplatanus</i>	10	3/3/3/3	450	5.40	3m all		40+	Good	Fair		B1	
843	<i>Acer pseudoplatanus</i>	10	4/4/4/4	460	5.52	3m all		40+	Good	Fair		B1	
844	<i>Fraxinus excelsior</i>	10	2/2/2/2	230	2.76	4m all		10<	Fair	Poor		C1	
845	<i>Acer pseudoplatanus</i>	10	3/0/1/3	350	4.20	4m all		10<	Fair	Poor		C1	
846	<i>Acer pseudoplatanus</i>	9	2/2/2/3	330	3.96	4m all		40+	Good	Fair		B1	
847	<i>Acer pseudoplatanus</i>	10	4/4/4/4	420	5.04	4m all		40+	Good	Fair		B1	
848	<i>Acer pseudoplatanus</i>	10	4/4/4/4	400	4.80	4m all		40+	Good	Fair		B1	
849	<i>Acer pseudoplatanus</i>	9	4/3/4/4	400	4.80	3m all		40+	Good	Fair		B1	
850	<i>Acer pseudoplatanus</i>	6	3/3/3/3	340	4.08	2m n/s		40+	Good	Fair		B1	
851	<i>Acer pseudoplatanus</i>	10	4/4/4/5	420	5.04	3m all		40+	Good	Fair		B1	
852	<i>Acer pseudoplatanus</i>	10	4/3/4/4	450	5.40	4m all		40+	Good	Fair		B1	
853	<i>Acer pseudoplatanus</i>	11	3/3/0/5	400	4.80	3m e/w		40+	Good	Fair		B1	
853a	<i>Acer pseudoplatanus</i>	12	4/4/4/4	400x2	6.78	2m e/w		40+	Good	Fair		B1	in field
854	<i>Acer pseudoplatanus</i>	8	2/2/2/2	390	4.68	3m all		40+	Good	Fair		B1	
855	<i>Acer pseudoplatanus</i>	8	2/2/2/4	530	6.36	3m all		40+	Good	Fair		B1	
856	<i>Acer pseudoplatanus</i>	8	3/3/3/3	320	3.84	4m all		40+	Good	Fair		B1	
857	<i>Quercus robur</i>	12	3/6/3/5	480	5.76	2m all		40+	Good	Fair	Remove Ivy & Crown Clean	A1	
858	<i>Fraxinus excelsior</i>	13	3/5/5/5	610	7.32	2m all		10<	Poor	Fair		C1	Ash dieback
859	<i>Quercus robur</i>	11	5/5/5/5	800	9.60	1m all		40+	Good	Fair	Remove Ivy & Crown Clean	A1	
860	<i>Quercus robur</i>	9	3/4/4/4	360	4.32	3m all		40+	Good	Good		B1	
861	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
862	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
863	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
864	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
865	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
866	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
867	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
868	<i>Salix alba</i>	16	4/4/4/4	620	7.44	3m e/w		20+	Good	Good		B1	
869	<i>Tilia euclora</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
870	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
871	<i>Tilia cordata</i>	8	3/3/3/3	390	4.68	3m all		40+	Good	Good		B1	
872	<i>Acer platanoides</i>	9	4/4/4/4	390	4.68	2m all		40+	Good	Good		B1	

Tag	Species	Height (m)	Crown Spread (m)		Girth (mm)@ 1.5m	RPA circle radius (m)	Lowest branch (m) & direction of growth		Life Stage	Estimated remaining contribution (years)	Physiological Condition	Structural Condition	Preliminary management recommendations	Category of retention + sub-category	Notes
			N/S/E/W	1.5m			2m all	MA			Good				
873	Acer platanoides	8	4/4/4/4	360	4.32	2m all	MA	40+	Good	Good	Good	Good		B1	
874	Acer platanoides	8	4/4/4/4	470	5.64	2m all	MA	40+	Good	Good	Good	Good		B1	
875	Acer platanoides	7	4/4/4/4	370	4.44	2m all	MA	40+	Good	Good	Good	Good		B1	
876	Tilia cordata	7	3/3/3/3	340	4.08	2m all	Y	40+	Good	Good	Good	Good		B1	
877	Betula pendula	6	4/4/4/4	180x7	5.72	0m all	MA	40+	Good	Good	Good	Good		B1	
878	Quercus robur	5	3/3/3/3	180x2	3.05	0m all	Y	40+	Good	Fair				B1	prune compression bole
879	Fraxinus excelsior	7	2/2/2/2	200	2.40	2m all	Y	10<	Poor	Fair				C1	ash dieback
880	Aesculus hippocastanum	5	2/2/2/2	220	2.64	2m all	Y	40+	Good	Good	Good	Good		B1	
881	Quercus robur	7	3/3/3/3	290	3.48	2m all	Y	40+	Good	Good	Good	Good		B1	
882	Fraxinus excelsior	8	4/4/4/4	420	5.04	2m all	MA	10<	Fair	Fair				C1	Ash dieback
883	Quercus robur	7	3/3/3/3	250	3.00	0m all	Y	40+	Good	Good	Good	Good		B1	crown raise
884	Quercus robur	8	4/4/4/4	350	4.20	2m all	Y	40+	Good	Good	Good	Good		B1	
885	Fraxinus excelsior	7	3/3/3/3	350	4.20	2m all	MA	10<	Poor	Fair				C1	Ash dieback
886	Aesculus hippocastanum	6	3/3/3/3	340	4.08	2m all	Y	40+	Good	Good	Good	Good		B1	
887	Quercus robur	17	6/6/6/6	900	10.80	4m all	MA	40+	Good	Fair	Remove ivy			A1	
888	Fraxinus excelsior	15	3/6/3/3	500	6.00	6m all	MA	40+	Poor	Poor	Fell			U	basal cavity / ash dieback
TG1	Willow					Y	40+	Good	Fair					C2	
TG2	Mixed broadleaf					MA	40+	Good	Fair					B2	
TG3	Mixed broadleaf					MA	40+	Good	Fair					B2	
TG4	Mixed broadleaf					MA	40+	Good	Fair					B2	
TG5	Willow					Y	40+	Good	Fair					B2	
TG6	Alder / Willow / Mixed Broadleaf					MA	40+	Good	Fair					B2	
TG7	Alder / Willow / Mixed Broadleaf					MA	40+	Good	Fair					B2	
TG8	Willow					MA	40+	Good	Fair					B2	
TG9	Mixed broadleaf					MA	40+	Good	Fair					A2	
TG10	Willow / Mixed broadleaf					MA	40+	Good	Fair					B2	
TG11	Willow					Y	40+	Good	Fair					B2	
TG12	Willow					Y	40+	Good	Fair					B2	
TG13	Willow					Y	40+	Good	Fair					B2	
TG14	Willow					Y	40+	Good	Fair					B2	
TG15	Willow					Y	40+	Good	Fair					B2	
TG16	Willow					Y	40+	Good	Fair					B2	
TG17	Willow					Y	40+	Good	Fair					B2	
TG18	Willow					Y	40+	Good	Fair					B2	
TG19	Willow					Y	40+	Good	Fair					B2	
TG20	Willow					Y	40+	Good	Fair					B2	
TG21	Alder / Willow / Mixed Broadleaf					MA	40+	Good	Fair					B2	
TG22	Mixed broadleaf					MA	40+	Good	Fair					B2	
TG23	Mixed broadleaf					MA	40+	Good	Fair					B2	
TG24	Mixed broadleaf					MA	20+	Good	Fair					B2	









LEGEND

- | | |
|--|---|
| | CLASS A INDIVIDUAL TREE
(HIGH QUALITY -
RETENTION HIGHLY DESIRABLE) |
| | CLASS B INDIVIDUAL TREE
(MODERATE QUALITY -
RETENTION DESIRABLE) |
| | CLASS C INDIVIDUAL TREE
(LOW QUALITY -
RETENTION OPTIONAL) |
| | CLASS U INDIVIDUAL TREE
(RECOMMEND REMOVAL) |
| | TREE GROUPS or HEDGEROWS
(COLOUR REPRESENTING
GROUP CLASSIFICATION) |
| | CALCULATED ROOT
PROTECTION AREA (RPA) |

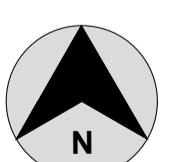
NOTE:

THIS DRAWING IS PRODUCED IN COLOUR,
MONOCHROME VERSIONS SHALL NOT BE
RELIED UPON.

REV	DATE	AMENDMENT
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CUNNANE STRATTON REYNOLDS LAND PLANNING & DESIGN

GALWAY OFFICE
ARDACONG, BALLYTRASNA, TUAM, CO GALWAY
TEL 01 661 0419
EMAIL galwayinfo@csrlandplan.ie
www.csrlandplan.ie

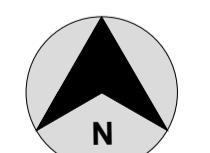


PROJECT:	DATE:	JUNE 2024
UL to ANNACOTTY PROPOSED CYCLEWAY	SCALE:	1:1,250@A1
DRAWING:	DRAWN:	KM
TREE CLASSIFICATION & CONSTRAINTS (Sheet 4 of 4)	CHECKED:	KM
	DRAWING NO:	21537_T_101



CUNNANE STRATTON REYNOLDS
LAND PLANNING & DESIGN

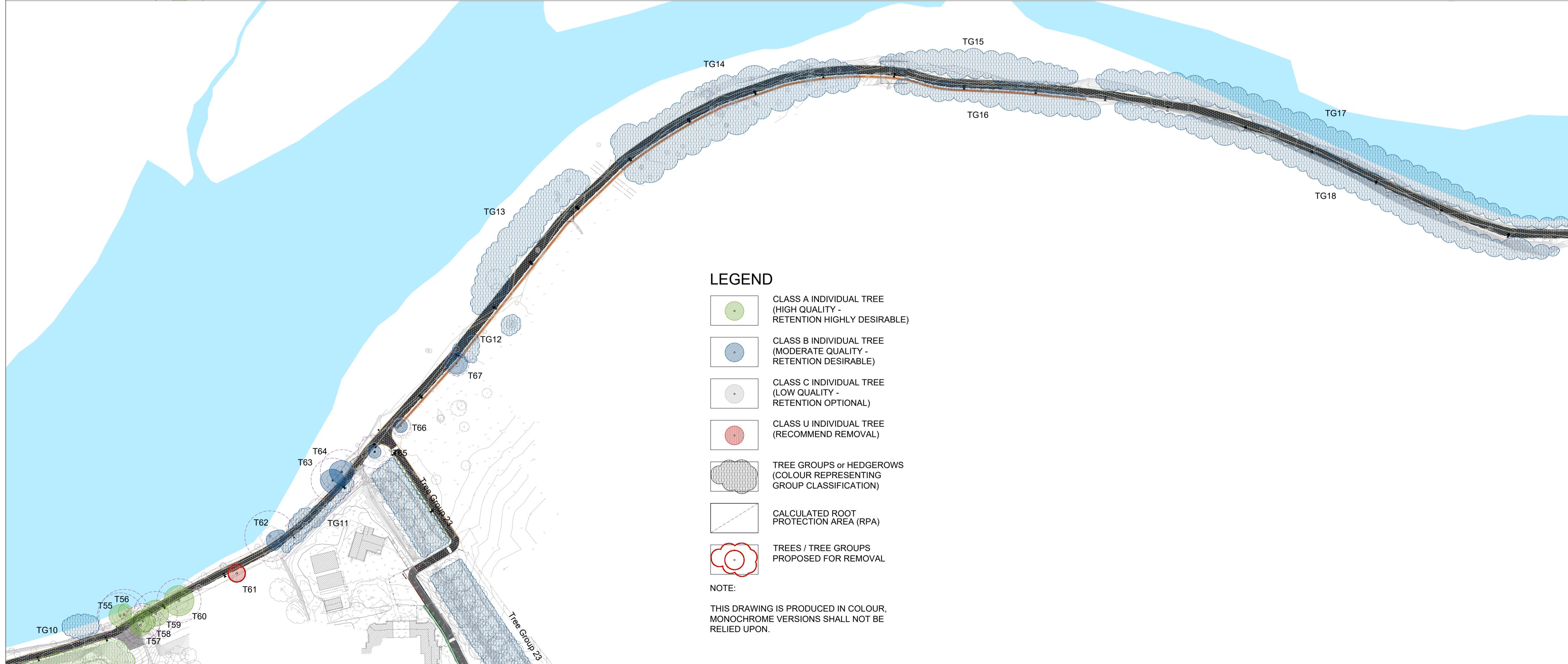
GALWAY OFFICE
ARDACONG, BALLYTRASNA, TUAM, CO GALWAY
TEL 01 661 0419
EMAIL galwayinfo@csrlandplan.ie
www.csrlandplan.ie



PROJECT: UL to ANNACOTTY PROPOSED CYCLEWAY	DATE: JUNE 2024
SCALE: 1:1,250@A1	KM KM
DRAWN: CHECKED:	KM KM
ARBORICULTURAL IMPACT ASSESSMENT (Sheet 1 of 4)	
DRAWING NO:	21537_T_101


LEGEND

CLASS A INDIVIDUAL TREE


LEGEND

- CLASS A INDIVIDUAL TREE (HIGH QUALITY - RETENTION HIGHLY DESIRABLE)
- CLASS B INDIVIDUAL TREE (MODERATE QUALITY - RETENTION DESIRABLE)
- CLASS C INDIVIDUAL TREE (LOW QUALITY - RETENTION OPTIONAL)
- CLASS U INDIVIDUAL TREE (RECOMMEND REMOVAL)
- TREE GROUPS or HEDGEROWS (COLOUR REPRESENTING GROUP CLASSIFICATION)
- CALCULATED ROOT PROTECTION AREA (RPA)
- TREES / TREE GROUPS PROPOSED FOR REMOVAL

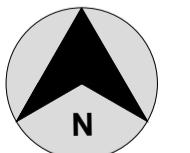
NOTE:

THIS DRAWING IS PRODUCED IN COLOUR,
MONOCHROME VERSIONS SHALL NOT BE
RELIED UPON.

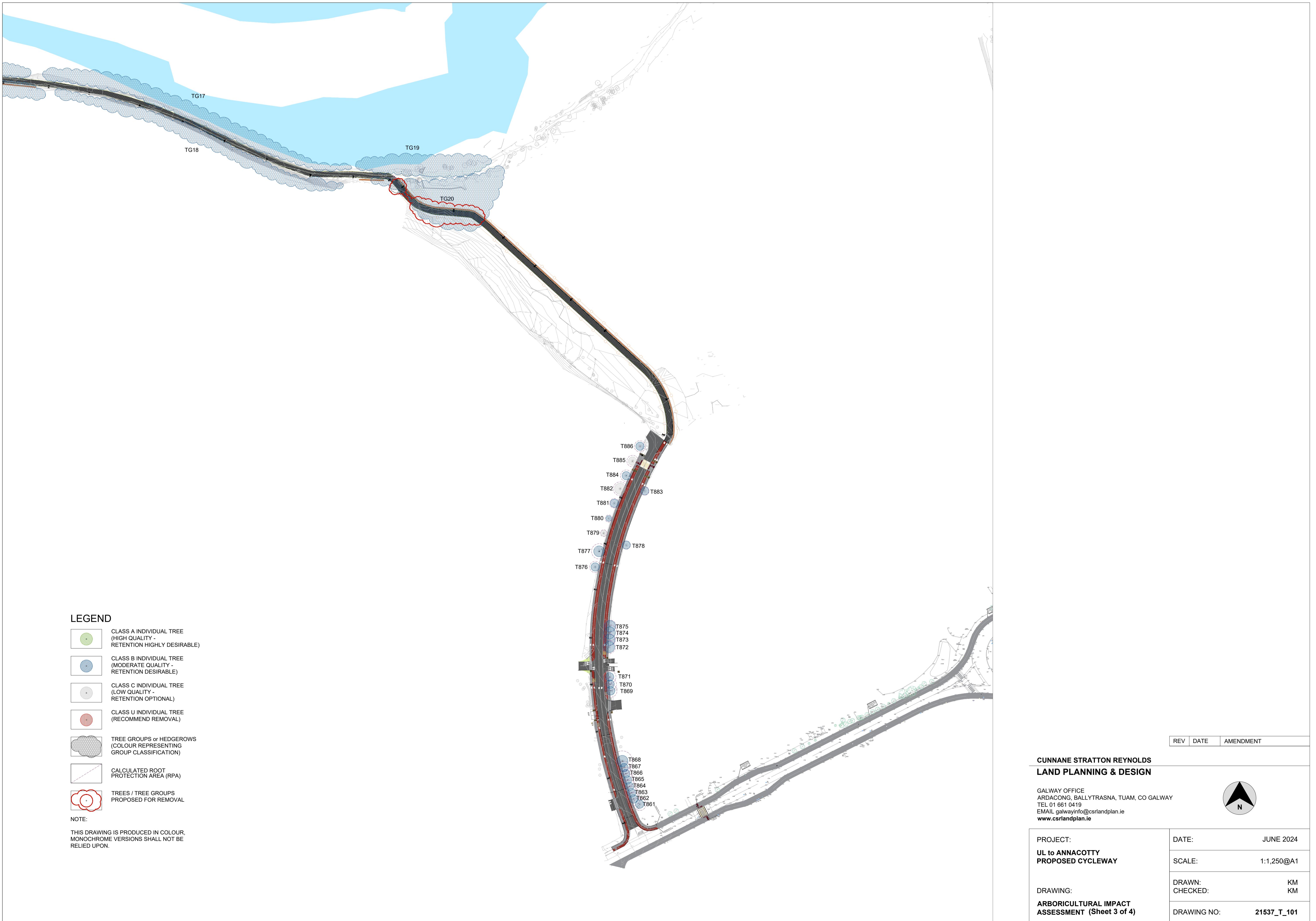
REV	DATE	AMENDMENT
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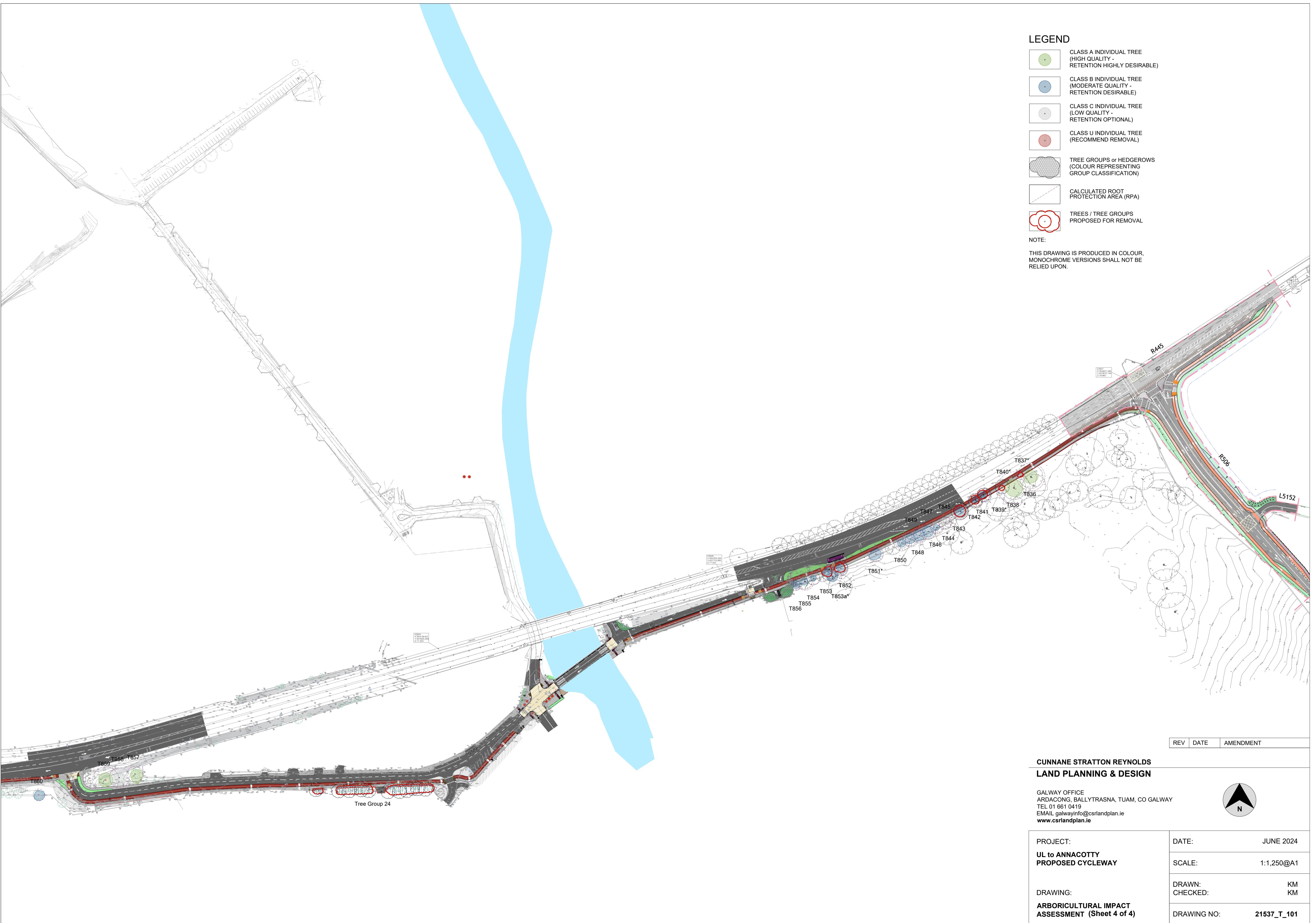
**CUNNANE STRATTON REYNOLDS
LAND PLANNING & DESIGN**

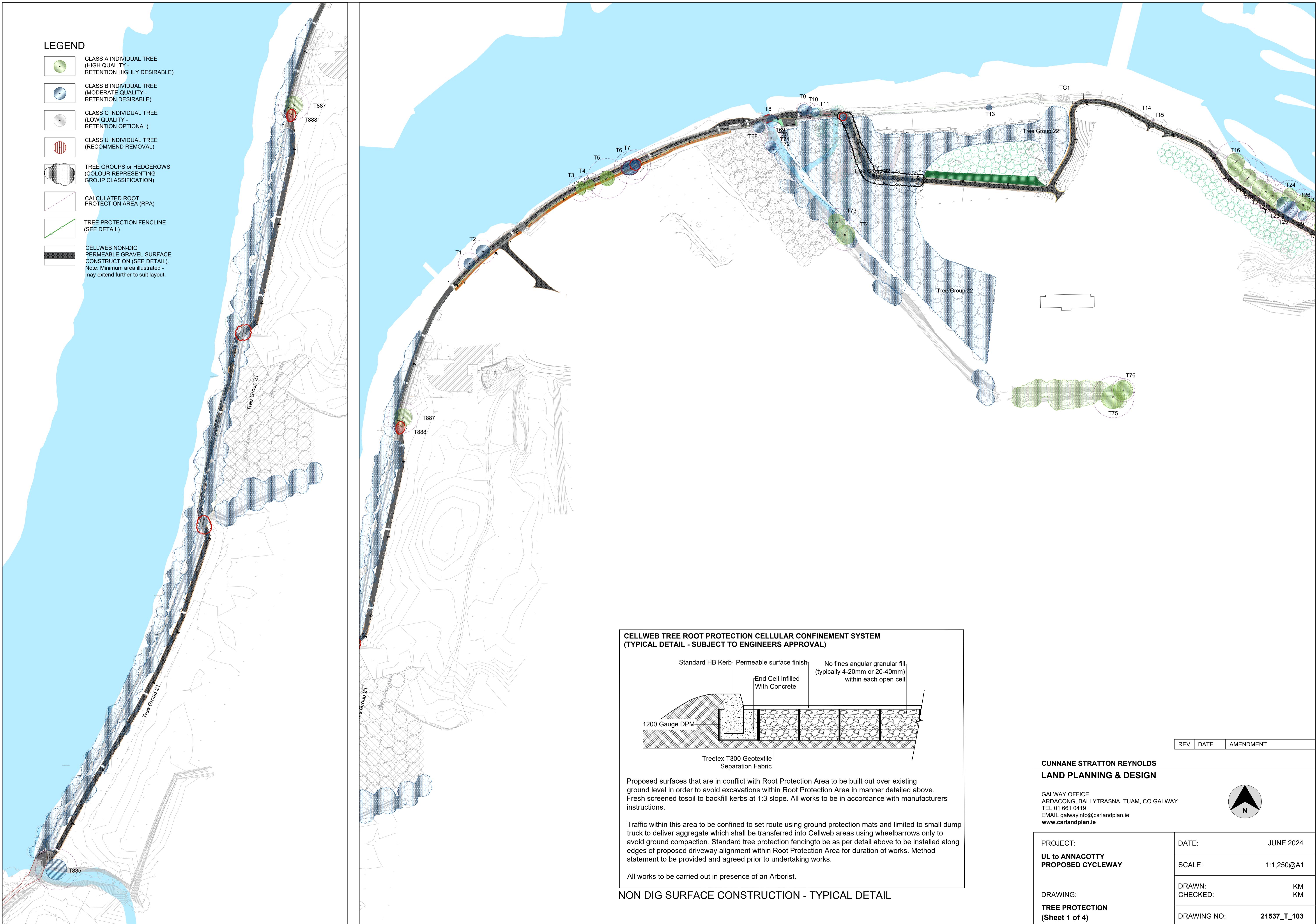
GALWAY OFFICE
ARDACONG, BALLYTRASNA, TUAM, CO GALWAY
TEL 01 661 0419
EMAIL galwayinfo@csrlandplan.ie
www.csrlandplan.ie

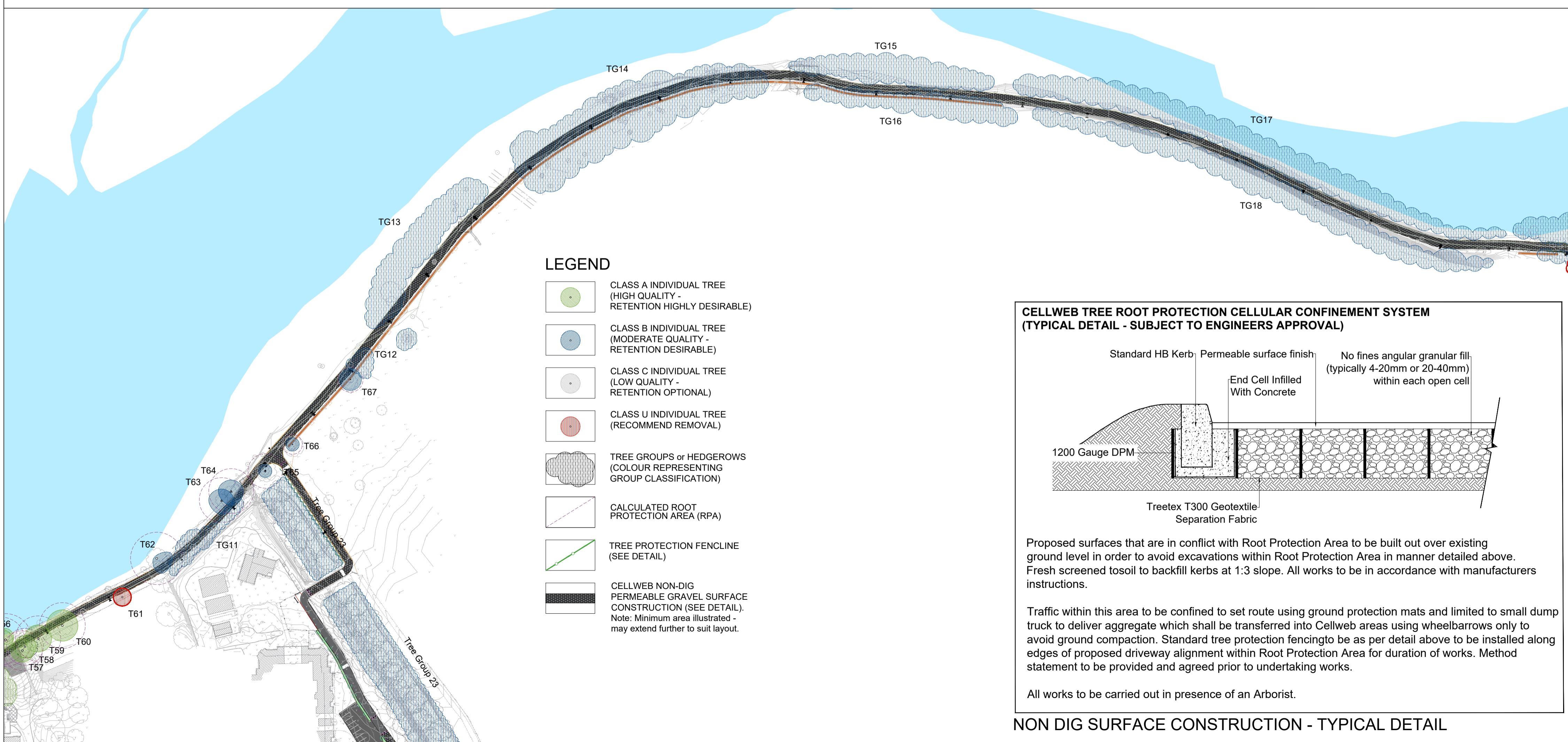
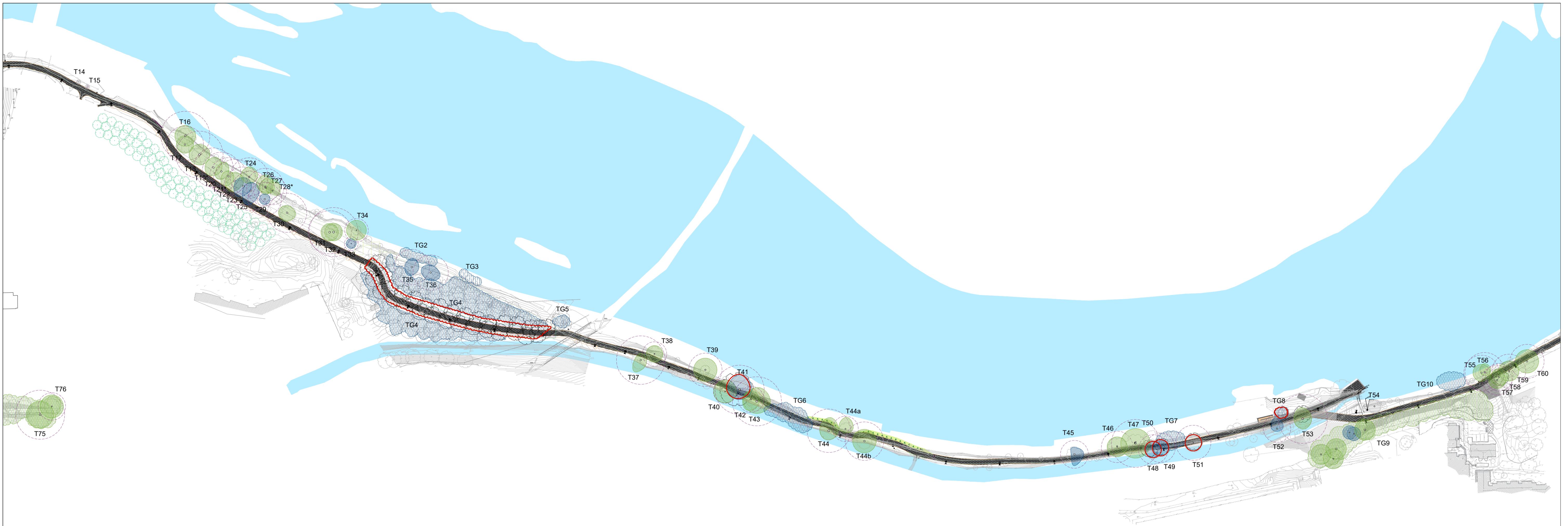


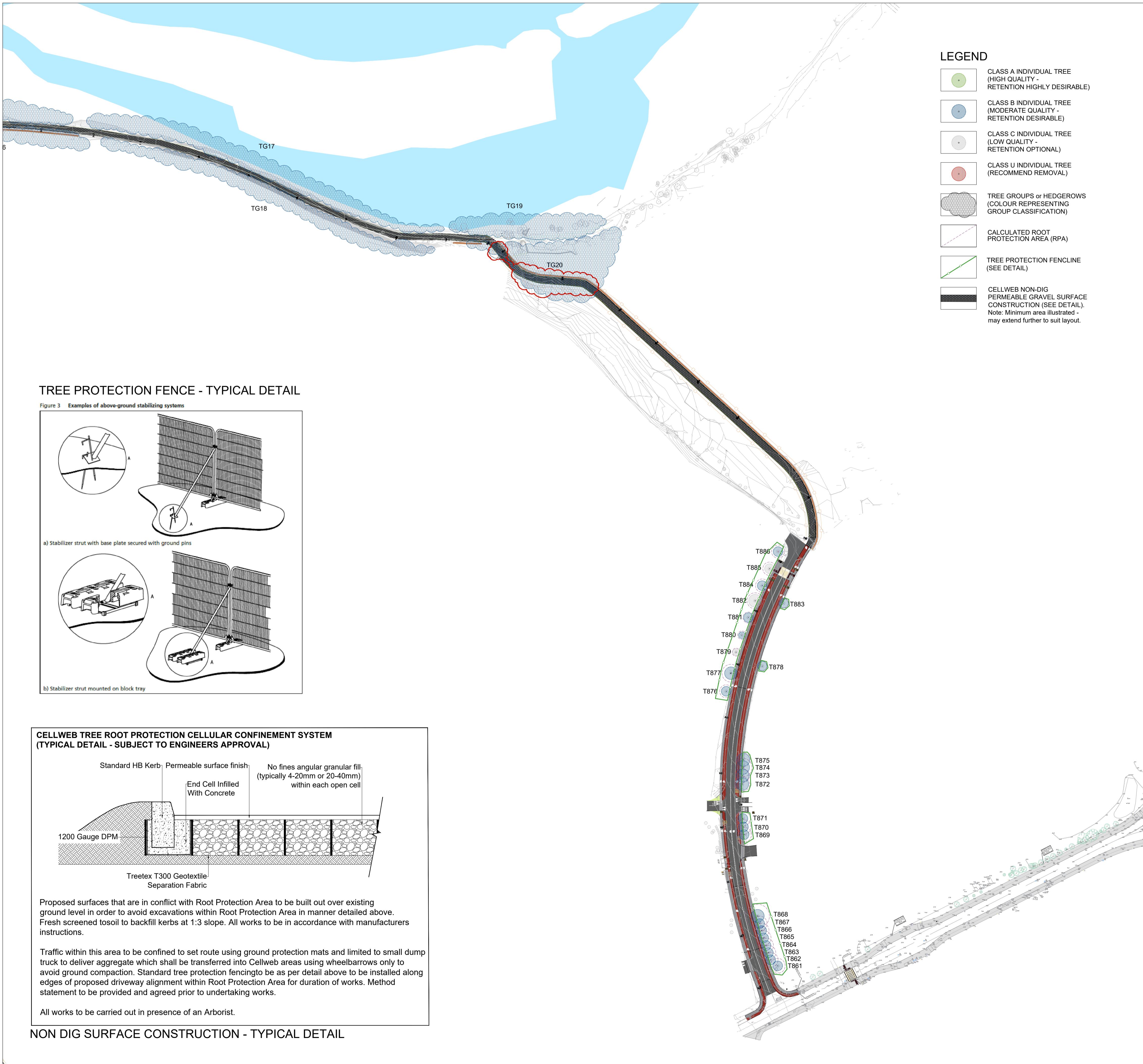
PROJECT: UL to ANNACOTTY PROPOSED CYCLEWAY	DATE: JUNE 2024
SCALE: 1:1,250@A1	
DRAWN: CHECKED: KM KM	
DRAWING NO.: 21537_T_101	









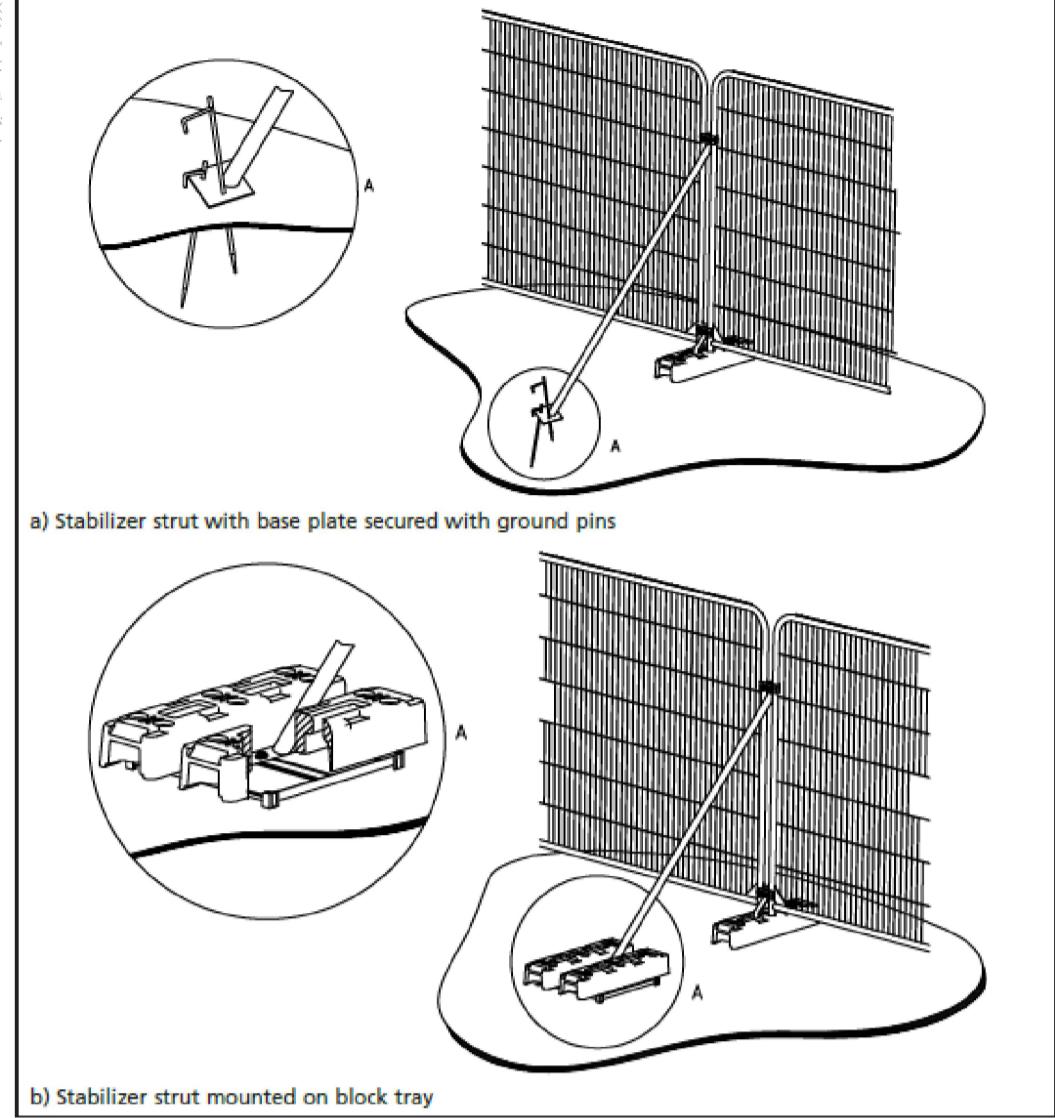


REV	DATE	AMENDMENT
CUNNANE STRATTON REYNOLDS LAND PLANNING & DESIGN		
GALWAY OFFICE ARDACONG, BALLYTRASNA, TUAM, CO GALWAY TEL 01 661 0419 EMAIL galwayinfo@csrlandplan.ie www.csrlandplan.ie		
PROJECT: UL to ANNACOTTY PROPOSED CYCLEWAY	DATE:	JUNE 2024
SCALE:	1:1,250@A1	
DRAWN: CHECKED:	KM	KM
DRAWING NO:	21537_T_103	



TREE PROTECTION FENCE - TYPICAL DETAIL

Figure 3 Examples of above-ground stabilizing systems



LEGEND

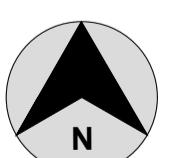
- CLASS A INDIVIDUAL TREE (HIGH QUALITY - RETENTION HIGHLY DESIRABLE)
- CLASS B INDIVIDUAL TREE (MODERATE QUALITY - RETENTION DESIRABLE)
- CLASS C INDIVIDUAL TREE (LOW QUALITY - RETENTION OPTIONAL)
- CLASS U INDIVIDUAL TREE (RECOMMEND REMOVAL)
- TREE GROUPS or HEDGEROWS (COLOUR REPRESENTING GROUP CLASSIFICATION)
- CALCULATED ROOT PROTECTION AREA (RPA)
- TREE PROTECTION FENLINE (SEE DETAIL)
- CELLWEB NON-DIG PERMEABLE GRAVEL SURFACE CONSTRUCTION (SEE DETAIL). Note: Minimum area illustrated - may extend further to suit layout.



REV DATE AMENDMENT

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PROJECT: UL to ANNACOTTY PROPOSED CYCLEWAY	DATE: JUNE 2024
SCALE: 1:1,250@A1	
DRAWN: CHECKED: KM KM	
DRAWING NO.: 21537_T_103	