

**LIDL : GLAN LLYN3
NEWPORT
NP19 4TZ**

**GREEN INFRASTRUCTURE
STATEMENT**



30 August 2024
Rev 13 September 2024
Rev 9 December 2024

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GREEN INFRASTRUCTURE STATEMENT

LIDL STORE : GLAN LLYN : NEWPORT

1.0 INTRODUCTION

This is the Green Infrastructure Statement for the proposed Lidl store, carpark, and associated retail units and nursery. The site is located off Queensway and Kings Wall Drive with a postal code NP19 4TZ and grid reference ST 355865 and is referred to as the 'Site' in this document.

2.0 TERMS

The definition of Green Infrastructure in Chapter 6 of Planning Policy Wales 12 February 2024 is

'Green infrastructure is the network of natural and semi-natural features, green spaces, rivers and lakes that intersperse and connect places. Component elements of green infrastructure can function at different scales and some components, such as trees and woodland, are often universally present and function at all levels. At the landscape scale green infrastructure can comprise entire ecosystems such as wetlands, waterways peatlands and mountain ranges or be connected networks of mosaic habitats, including grasslands. At a local scale, it might comprise parks, fields, public rights of way, allotments, cemeteries and gardens or may be designed or managed features such as sustainable drainage systems.. At smaller scales, individual urban interventions such as street trees, hedgerows, roadside verges, and green roofs/walls can all contribute to green infrastructure networks'.

The Environment (Wales) Act 2016 provides a context for the delivery of multi-functional green infrastructure. Its provision can make a significant contribution to the sustainable management of natural resources. Green infrastructure is capable of providing several functions at the same time and as a result offers multiple benefits, for social, economic and cultural as well as environmental resilience and respond to challenges presented by the climate emergency.

A Step Wise Approach is required to be demonstrated in the Green Infrastructure Statement.

To assess impacts on habitats and species

Step 1 Avoid

Step 2 Minimise

Step 3 Mitigate/Restore

Step 4 Compensate on Site

Step 4 Compensate Off-Site

Steps 1-4 Using the DECCA Framework for all relevant steps that require enhancement

Step 5 Long Term Management Plan

These steps will indicate how Net-Benefit-for-Biodiversity is achieved.

Without an achievement Step 6 would result in a refusal for a development.

Mitigation' to mean 'measures taken to avoid or reduce negative impacts', as separate from 'compensation' meaning 'measures taken to make up for the loss of, or permanent damage to, biological resources through the provision of replacement areas'

3.0 DOCUMENTS

Refer to the following documents as reference for the statement

- CA 2024-LIDL-GL-01 Rev A Glan Llyn Landscape Existing
- CA 2024-LIDL-GL-02 Rev B Glan Llyn Landscape Existing Features and Overlay
- CA 2024-LIDL-GL-03 Rev F Glan Llyn Landscape Proposals Overall
- CA 2024-LIDL-GL-04 Rev C Glan Llyn Landscape Trees, Hedges And Native Blocks
- CA 2024-LIDL-GL-05 Rev B Glan Llyn Landscape Planting Beds
- CA 2024-LIDL-GL-07 Glan Llyn Landscape Designations

- CA 2024-LIDL-GL-08 Glan Llyn Green Infrastructure
- CA 2024-LIDL Glan Llyn Planting Schedule rev 9 December 2024
- CA 2024-LIDL Glan Llyn Planting methodology and 10 Year Aftercare rev 9 December 2024.
- Arboricultural Report Glan Llyn (ArbTS 2024)
- Preliminary Ecological Appraisal (Biodiverse Consulting, 2024)
- Ecological Management Plan (Biodiverse Consulting. September 2024)
- 3211 P400G Proposed GA Masterplan
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4.0 EXISTING SITE DETAIL

The existing Site area is 11300m² (1.13Hectares). It is roughly rectangular lying in a north east line and is within a large mixed use community development on the south east side of Newport. It was at the western end of the former Llanwern steelworks on the A4810 Queensway and at the edge of the Gwent Caldicot Levels. The Site will be part of a local centre.

The development will be a Lidl Store and associated parking in the southern section facing A4810 and Kings Wall Drive and Retail Units and a Nursery in the northern section facing an undeveloped part of the Local Centre and a northern housing access road. Refer to CA 2024-LIDL-GL-01 Rev A Glan Llyn Landscape Existing

The south west boundary is a frontage at the back of the footpath cycleway with the A4810 Queensway. There is a narrow grass verge and timber fence to the rear area which angles back to a timber fence to give the Site a wider frontage verge with a band of grass then an ornamental planting bed with three trees, two Turkey Oaks and a Sweet Gum.

The Kings Wall Drive junction with Queensway is a traffic light controlled. The lower south east Site boundary is a narrow grass verge a recent hedge of predominantly Hornbeam and Sweet Gum with a line of Hornbeam trees along Kings Wall Drive. The road curves to the east past the undeveloped area and then onto a residential area. On the other side of the drive opposite the Site, is the Llanwern Bull pub with parking and established landscape grounds. After this are show house offices followed by further residential areas.

The north east Site boundary is set back from the existing hedge on a spur of road off Kings Wall Drive. This leads to the fenced house builder site compound with portacabin offices and parking off a diagonal tarmac road and gravel forming a northeast triangle. There is an undeveloped area which will form another part of the local centre opposite the Site north east boundary.

The northern Site boundary is fenced across the house builder' site compound storage area and site compound with a road access mid way into the area. It fronts onto an estate access road linking to developed residential areas to the west and with houses under construction opposite and developed residential areas to the east.

The western boundary is a heras fence line along the top of a bank which slopes down to Julian's Reen. The slope is covered with dense sprawling scrub of Crack Willow, Goat Willow and Elder. The western side of the reen is a public open space of mown grass with groups of trees Poplar, Aspen, Birch, Alder, Willow, Sorbus and Hornbeam with some long herbaceous growth and scrub by the reen in places. The open space is overlooked by housing and has a footpath cycleway along its length.

Internally the northern part of the Site has no trees or hedgerows and is unvegetated with only tarmac, gravel and compacted ground with portacabins, parking and stored materials. The central area has mounds of earth spoil and grass covered earth spoil heaps.

The southern section of the site is waterlogged ground with rough grass and reeds, with marshy grass area and standing water like a shallow pond. There is dense bramble and scrub to the rear of the south and south east fence.

Internally there are a few services in the northern section of the Site serving the compound portacabins. In the south of the Site a service easement crosses the site through the ornamental bed area and further services cross the Site frontage in the grass verge area. There are extensive services in the footpaths by the Site boundary on Kings Wall Drive and northern estate road. A sewer easement off-site connects to Llanwern Pub from down the spur road by the site compound.

4.1 EXISTING SITE SUMMARY

The existing site is in two different areas

- waterlogged and marshy areas with rough grass and rushes and brambles, scrub and spoil mounds.
- house builders site compound and storage compound.

The existing planting is limited to

- tree planting in the ornamental frontage bed and grass verge with Queensway.
- hedgerow and hornbeam trees alongside Kings Wall Drive.
- scrub band alongside the Julian's Reen is a important linear ecologically feature off-site.

Constraints to landscaping are easement in the ornamental bed and services in the grass verge which restrict tree planting in this area.

5.0 TREES

The Tree Report has surveyed 10No individual trees and 1No hedgerow. Only the T7 and T8 Turkey Oak are category B tree. All the rest are category C trees of low quality except T1 Hornbeam which is a category U tree of poor quality.

There is a young hedgerow H1 along Kings Wall Drive frontage and partly up the house builder site compound. A small section of H1 with T2 Hornbeam is to be retained the rest fronting the Drive is to be removed. An off-site section of H1 on the site compound access road is unaffected by the proposed Lidl development.

The removed section of Hedgerow H1 contains 4No Hornbeam trees all category C low quality to facilitate the Lidl Development. The T1 Hornbeam of category U poor quality is to be removed from the start of the retained H1 Section. The retained hedgerow section will require some pruning back to form a more compact form.

An ornamental planting bed along the Queensway frontage is to be removed and T7 and T8 Turkey Oak both category B trees are to be removed as they lie within a service easement and also to facilitate the Lidl Development.

T9 Sweet Gum along the Queensway frontage is retained is outside service easements and service runs.

The western boundary of the Site is a band of sprawling scrub of Crack Willow, Goat Willow and Elder a few sections and some root spread are within the Site boundary and whole boundary is to be to have protective fencing.

5.1 TREE SUMMARY

In summary there are 10No trees and an existing hedgerow.

- 1No removed due to Category U cannot be realistically retained due to poor quality.
- 7No removed to facilitate the design and compensation to be made.
- 2No retained (T2 Hornbeam and T9 Sweet Gum).
- 1 small section of hedgerow removed to be compensated by new hedgerow planting of increased species diversity.

AVOIDANCE MEASURES

- implementation of fencing for tree protection prior to any demolition or clearance works is to avoid damage to the retained trees.
- Tree felling to be undertaken outside the bird nesting season unless checked by a suitably qualified Ecologist and approval given to proceed.

Adhering to the tree protection details in the Arboricultural Report and the compensation for tree and hedgerow loss the proposed development can be constructed without any significant long-term adverse impact on the retained trees and scrub or the area's amenity.

COMPENSATION/ENHANCEMENT

Compensation is proposed to address the impacts on habitats which cannot be avoided or mitigated:

- Tree and hedgerow losses to facilitate the development and one poor tree removed are to be compensated by new plantings with native trees and native hedges.

6.0 ECOLOGY

6.1 HABITATS

The Preliminary Ecological Assessment (PEA) notes there are no priority habitats on Site and the following habitats on Site are :-

- Neutral Grasslands – unmanaged grassland of low value and moderate diversity.
- Modified Grassland – mown frontage with Queensway.
- Mixed Scrub – Salix dominant of low value and moderate diversity.
- Developed Land Sealed Surfaces – site compound area of negligible value.
- Sparsely Vegetated Urban Land – area of low value and low diversity.
- Artificial Unsealed Surfaces - gravel and soil of negligible value.

6.2 PROTECTED AND PRIORITY SPECIES

The protected species which may occur on site are

- Great Crested Newt
 - Given the temporary nature of wet areas onsite and disturbance from plant movement, the Site is considered to be of low value to great crested newt.
- Bats
 - No roosting potential and limited foraging potential
 - Site considered as low value to bats.
- Birds
 - The Site offers some potential nesting habitat within the scrub along the southern and western boundaries and potential for ground-nesting species within the grassland.
 - The grassland onsite offers limited foraging and roosting opportunities for wintering birds.
- Badgers
 - Low value to badgers.
- Otter
 - The habitats within the Site provide limited opportunity for foraging, commuting and holt creation.
 - Pond to the west of the Site at top of adjacent Julian Reen section may provide suitable foraging and commuting habitat.
- Water Vole
 - No suitable habitat on site.
 - Pond to the west of the Site at top of adjacent Julian Reen section may provide suitable foraging and commuting habitat.
- Reptiles
 - The Site is considered to be of low value
- Priority Species
 - The site has the potential to support the priority species of hedgehogs and toads.

6.3 INVASIVE NON-NATIVE SPECIES

Invasive non-native species (INNS) none noted on Site.

6.4 ECOLOGY SUMMARY

AVOIDANCE

The following measures should be incorporated into the design of the development, including the construction phase, to avoid and reduce impacts on wildlife:

- Retained trees and hedge section and Julian Reen bank vegetation bordering Site to be protected.
- Avoid site clearance works during the nesting bird season (March to August inclusive) unless the site is checked by a Suitably Qualified Ecologist (SQE) and active nests are confirmed to be absent no later than 48 hours before works commence.
- External lighting will be designed in line with BCT Guidance 8 to reduce the impacts on bats and range of other wildlife associated with retained and off-site habitats.
- Schedule 9 invasive species will be removed by a licensed specialist contractor.

MITIGATION

Mitigation is proposed to reduce the impacts on wildlife that cannot be avoided through design:

- All works will be undertaken in accordance with a CEMP (Construction Ecological Management Plan). Ecological receptors likely to be covered in this plan will include, but not be limited to hedgehog, birds, reptiles, and amphibians.
- All construction activities will be programmed to daytime hours to reduce disturbance to sensitive nocturnal species, such as bats and roosting bird species.
- Excavations should be securely covered or fenced overnight, or otherwise provide a means of escape for animals that may become trapped in the form of a ramp at least 300mm wide and angled no greater than 45°. Excavations should be inspected for the presence of animals before work recommences and, in the event of trapped animals being trapped, an ecologist contacted for advice.
- Gaps of at least 13cm x 13cm will be created within boundaries to facilitate movement of hedgehogs and other small animals through the Site.

COMPENSATION/ENHANCEMENT

Compensation is proposed to address the impacts on habitats which cannot be avoided or mitigated:

- Existing hedgerow and tree habitat will be enhanced through appropriate management to provide further opportunities for nature.
- The linear soft landscaping area at the rear of the commercial store is not a public area and will be used for nature conservation with native planting of trees, shrubs and perennials. This will also be the location for log piles and a hibernaculum.
- The proposed landscaping plan will provide local ecological connectivity through the planting of native species along the western boundary. These habitats will provide an extension as well as buffer to semi natural habitats currently adjacent to the Site.
- Provision of bat and bird boxes will provide greater opportunity for roosting bats and foraging and nesting birds.
- Tree and hedgerow losses to facilitate the development and one poor tree removed are to be compensated by new plantings with native and ornamental trees and native hedges.
- Trees combined with native shrubs, hedges and pollinator ornamentals are the main biodiversity type for the site. Berrying and fruit-bearing species alongside pollinator species, to provide increased foraging opportunities in the local area.

6.5 DECCA FRAMEWORK

DIVERSITY

- Genetic and species diversity increased through habitat creation, enhancement and management to promote a greater diversity and number of fauna and flora species using the Site.
- Structural diversity of the habitats will be maintained through habitat enhancement and management with the aim to maintain ecological niches within existing and created habitats.

EXTENT

- The extent of tree and hedgerow habitats within the Site will be increased through the planting and management of native and ornamental trees/shrubs.

CONDITION

- Habitat condition will be improved through habitat enhancement and management which will include invasive species management and reduction of disturbance to boundary habitats

CONNECTIVITY

- Connectivity within the Site will be increased through creation and enhancement of linear boundary habitats.
- Connectivity in the wider landscape will be improved through structural planting on the western boundary that will provide a buffer and increase in extent of habitats to adjacent existing off-site habitat.

ASPECTS OF ECOSYSTEM RESILIENCE

- Adaptability of the local ecosystem to disturbance will be maintained through an increase in connectivity on the western boundary that will allow for movement away from disturbance in the local area.
- Recovery of ecosystems will be improved through an increase in the diversity of habitats providing new homes for nature within the local area.

7.0 DRAINAGE AND BUILDING

- The proposed Site will have hard surfaces with gullies and drains the proposed scheme will ensure water pollution into the adjacent Julian's Reen will be avoided. This is of great importance due to the blue infrastructure of ditches, ponds, streams and reens to the north of Queensway connecting to the SSSI Gwent Levels- Caldicot Level south of the road via reens and streams.
- The Building is designed to have photovoltaics on the roof to reduce the required power input from the grid for the operation of the store.

AVOIDANCE

- Ensure drainage system avoids pollution into adjacent Julian Reen.

8.0 SITE SETTING

The Site is either within designated areas or within 2 Kilometres of the following and either has Low or No Impact or Negligible Impact:

DESIGNATIONS

- (SAC) Special Area of Conservation Severn Estuary and River Usk. NO IMPACT
- National Landscape Character Area NLCA34 Gwent Levels
The Site is located on the south east edge of the city of Newport by the A4810 Queensway and has urban features mainly residential and a few commercial properties north of the Caldicot levels. It is a flat, lowland landscape with a geometric patchwork of watercourses that run between fertile fields. It is remarkable for having been created by reclaiming marshland and inter-tidal areas during successive periods going back to Roman times. In parts, the older patterns have changed almost beyond recognition over the past 150 years, sections having been built over by a major railway line, two motorways and a disused steelworks. There has been a rapid growth of once small settlements into dormitory villages and Glan llyn is one of these with the Site within it as part of urban expansion of Newport. IMPACT LOW
- SSSI Gwent Levels-Nash and Goldcliff- Caldicot Levels - rich plant species and communities. The site has a diverse range of aquatic invertebrate fauna and is an important area for snails and dragonflies. Hedgerows and green banks provide habitat for nationally important assemblages of terrestrial invertebrates. This is on the southern side of the Queensway and therefore part is opposite the Site. Avoid water pollution NEGLIGIBLE IMPACT
- SSSI Gwent Levels Whiston NO IMPACT
- SSSI Gwent Levels Newport Wetlands Reserve RSPB NO IMPACT
- SINC Monk's Ditch – linear freshwater stream used by otters at end of disused steelworks area NO IMPACT
- SINC Former Steelworks Site of Queensway Meadows Dragonflies, as well as mosaic habitat for freshwater, grassland and woodland.

- Variety of SINCS 1164-1802m from the Site
 - Hartridge Wood, Ringland Wood, Ladyhill Wood and Dockwell Wood all Ancient semi-natural woodlands.
 - Ringland Way Marsh, Solutia Site both marsh swamp and wetland areas
 - Hartridge Fields, Liswerry Playing Fields and Angling Ponds – grasslands and some wetland.

URBAN SETTING

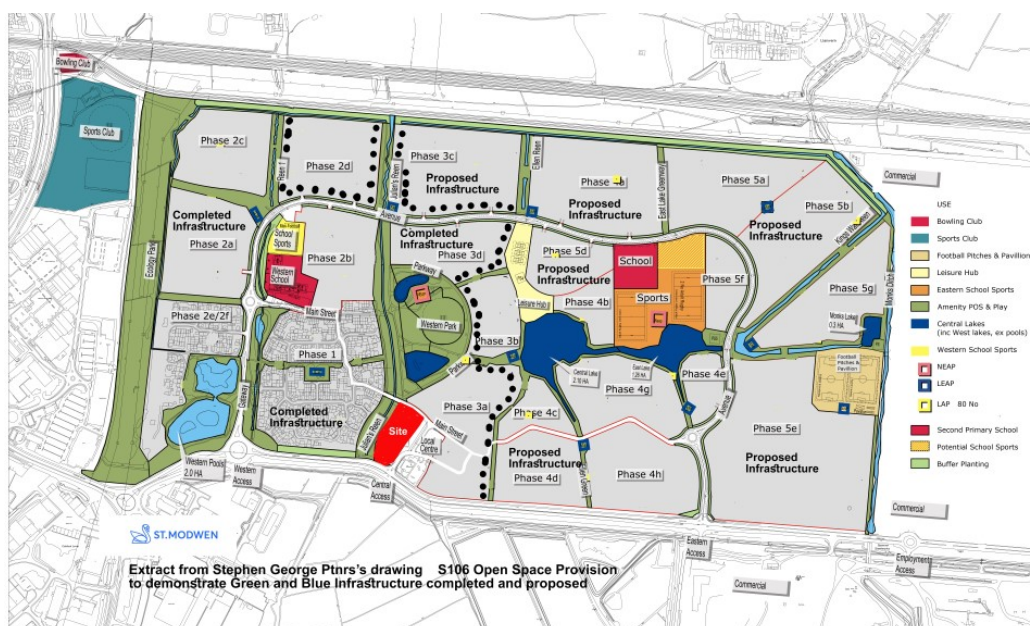
The Site is either within or connected or outside and not connected to any of the following:

- Not connected to Conservation Area
- Connected to the Town Centre by Queensway and other local main roads
- No connections to the National Cycle Route No4
- Connected to completed and proposed Parks, Opens Space and Play Areas within the residential development with linear links as a green and blue infrastructure of ponds and reens.
- Not connected to Public Rights of Way and Wales Coastal Path
 - it is only connected to the footpath/cycleway of Queensway and with footpaths and cycleways within the development and into the local centre where the Site is located.
 - the railway line to the north of the housing development on the old steelworks site restricts Public Rights of Way connecting from the north.
 - There is a fragmented range of footpaths and green lanes south of the Queensway in the Caldicot Levels which are connected by local roads. These are available for the residents to use.
 - The RSPB Newport Wetlands Reserve is within an accessible range from the residential development.

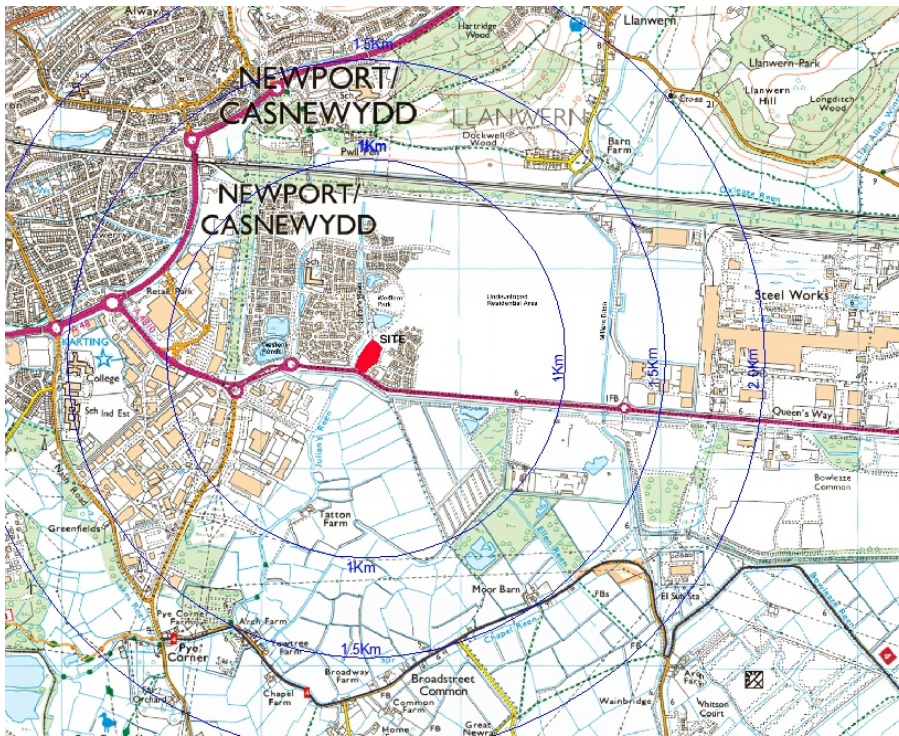
GREEN AND BLUE INFRASTRUCTURE

The Site is part of the Green Blue Infrastructure of the residential development. The Julian Reen and associated Open Space and footpath/cycleway run parallel to the Site's western boundary with scrub on the eastern bank of the reen up to the Site platform. The Julian's Reen extends northwards to the railway line. The Reen continuation and Western Park with ponds, planting, footpaths/cycleways, large grass areas lie to the north just above the Local Centre and the Site.

The proposed development has a series of interlinked ecological and water corridors across the area including existing reens – Julian's Reen Millers Ditch. The western section is constructed and the eastern section awaits development.



The Reen system south of Queensway is an intricate pattern of ditches reens and ponds.



9.0 LONG TERM MANAGEMENT

The site will have a Planting Methodology 10 Year Landscape Management Plan which will include landscape annual inspections and reports to assess the establishment of the landscape and undertake defects replacements in this period and will be copied to the ecologist. The ecologist will undertake monitoring inspections in years 1, 6 and 10 additional visits if annual reports raise issues. Revisions to the management plan will be made as necessary to assist successful establishment.

10.0 SUMMARY OF SITE AND NET BIODIVERSITY GAIN.

The site itself has limited ecological value and is fragmented into separate areas. The proposed site will provide an improvement in connectivity by planting on all boundaries with the inclusion of trees and native shrubs and hedges together with other berrying and seeding plants and pollinators.

The soft landscape area at the rear of the store will be a nature conservation area with only native trees and shrubs, log piles and a hibernaculum and other features.

The trees, hedge and ornamental planting in the rest of the Site provides planted boundaries with cross site connections to the western native block.

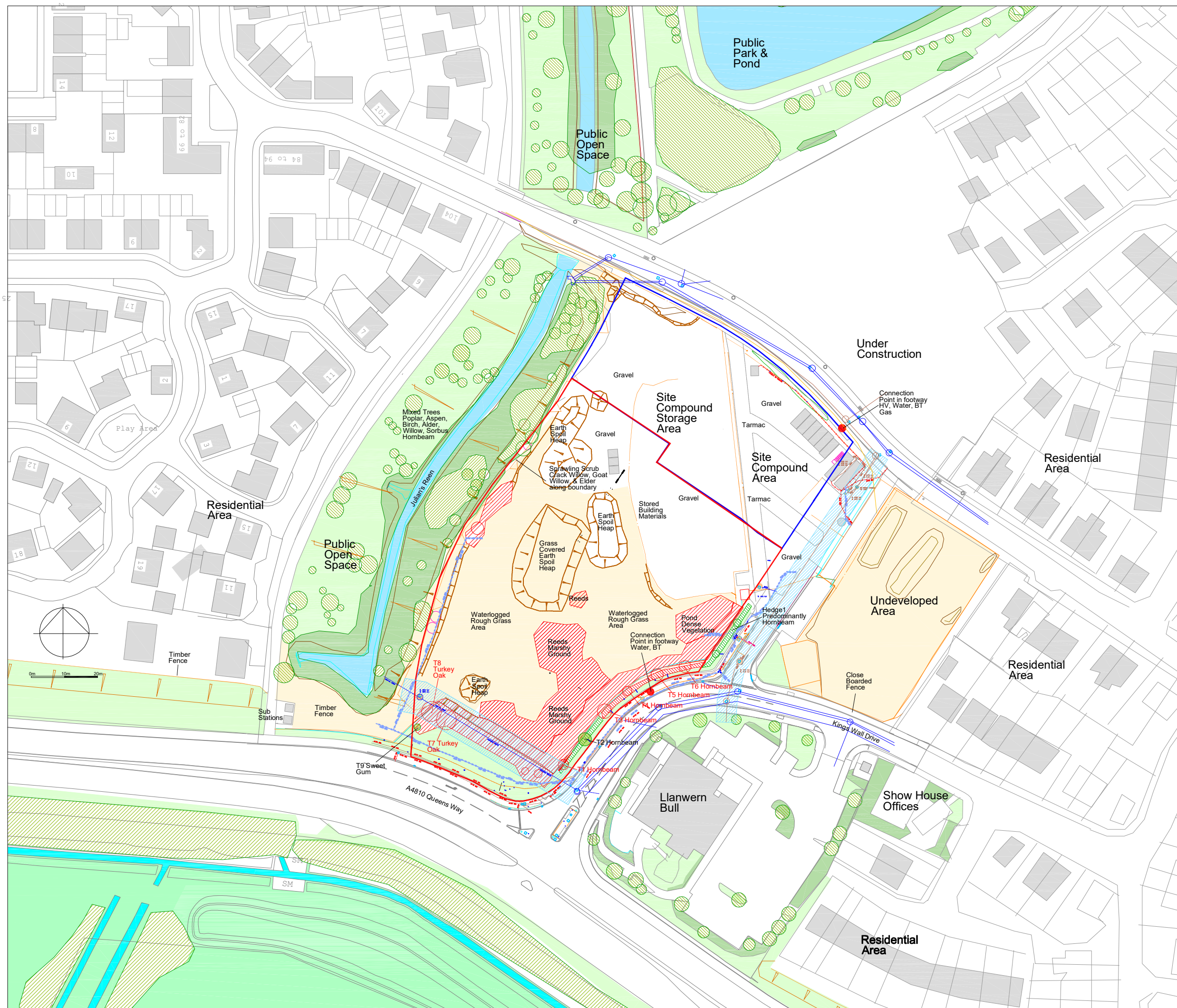
The native trees and native blocks on the western boundary will reinforce the existing scrub on the Julian Reen western steep bank and will form an enhancement to the ecological corridor and open space with links northwards to a public park with a ponds, tree and scrub planting and a continuation of the Julian's Reen. The Julian Reen crosses under the Queensway and connects to the south with the reen system of the Caldicot Levels.

The Statement undertakes the Step system within the different disciplines of landscape, arboriculture, building, drainage, ecology and site setting. Avoidance and Mitigation undertaken, Compensation is on-site. Long term management for the successful landscape establishment and biodiversity objectives met.

Overall the proposals, considering the location of the site in this residential development local centre and the Site's current low ecological value with limited diversity, will provide a biodiversity net gain.

	LIDL STORE : GLAN LLYN : NEWPORT			Rev 9 December2024	Rev 29 August 2024	
	TREE PLANTING			13-Aug-24	Rev 19 August 2024	
KEY	SPECIES	Native	Pollinator	NAME	SIZE	QTY
	All trees to be rootballed for autumn planting/winter planting only					
	All Tree pits 1500 x 1500mm square as indicated					
	Oaks to be only UK grown from nursery confirmed free of Oak processionary moth.					
AcE ANS	Acer campestre William Caldwell	N	P	Field Maple	18-20cm girth Advanced Nursey Std	8 No
Ag EXH	Alnus glutinosa	N		Alder	14-16cm girth Extra Heavy Standard	4 No
Bpub EXH	Betula pubescens	N		Downy Birch	14-16cm girth Extra Heavy Standard	9 No
Bp EXH	Betula pendula	N		Silver Birch	14-16cm girth Extra Heavy Standard	3 No
CbL EXH	Carpinus betulus Lucas	N	P	Hornbeam	14-16cm girth Extra Heavy Standard	4 No
Ms EXH	Malus sylvestris	N	P	Crab Apple	14-16cm girth Extra Heavy Standard	4 No
PCC EXH	Pyrus calleryana Chanticleer		P	Type of Pear	14-16cm girth Extra Heavy Standard	3 No
Qr EXH	Quercus robur	N	P	Oak	18-20cm girth Adv Nursery Standard	2 No
Sa EXH	Sorbus aria	N	P	Whitebeam	14-16cm girth Extra Heavy Standard	3 No
Sauc EXH	Sorbus aucuparia	N	P	Rowan	14-16cm girth Extra Heavy Standard	1 No
TcR EXH	Tilia cordata Rancho	N	P	Small leafed lime	14-16cm girth Extra Heavy Standard	1 No
	TOTAL					42 No
	NATIVE BLOCKS			NATIVE 1-3		402 m2
				Plant at 1.00m cts or 1.20m cts		
Bpub	Betula pubescens	N	P	Woolly Birch	60-90cm 1+1	15 No
Cm	Crataegus monogyna	N	P	Hawthorn	60-90cm 1+1	49 No
Ca	Corylus avellana	N	P	Hazel	60-90cm 1+1	35 No
Cs	Cornus sanguinea	N	P	Dogwood	60-90cm 1+1	30 No
la	Ilex aquifolium	N	P	Holly	30-45cm 3Lpot	35 No
Lv	Ligustrum vulgare	N	P	Wild Privet	60-90cm 1+1	55 No
Ms	Malus sylvestris	N	P	Crab Apple	60-90cm 1+1	10 No
Rc	Rosa canina	N	P	Dogr Rose	60-90cm 1+1	15 No
Sauc	Sorbus aucuparia	N	P	Rowan	60-90cm 1+1	10 No
Scap	Salix capraea	N	P	Goat Willow	60-90cm 0/1	10 No
Scin	Salix cinerea	N	P	Grey Willow	60-90cm 0/1	10 No
Sv	Salix viminalis	N	P	Crack Willow	60-90cm 0/1	10 No
Sn	Sambucus nigra	N	P	Elder	60-90cm 1+1	5 No
Ue	Ulex europaeus	N	P	Gorse	30-45cm 3Lpot	5 No
Vo	Viburnum opulus	N	P	Guelder Rose	60-90cm 1+1	15 No
HH	Hedera helix Hibernica	N	P	Ivy	60-90cm 2Lpot	40 No
	TOTAL					349 No
	HEDGEROWS 1-8			HEDGE 1-8		232 linm
	DOUBLE ROW as indicated SINGLE ROW as indicated CENTRAL FENCE as indicated			Double Row	Plant at 0.30m cts	215 linm
				Single row	Plant at 0.30m cts	17 linm
						155 linm
Ac	Acer campestre	N	P	Field Maple	60-90cm 1+1	292 No
Cb	Carpinus betulus	N		Hornbeam	60-90cm 1+1	272 No
Cm	Crataegus monogyna	N	P	Hawthorn	60-90cm 1+1	297 No
Ca	Corylus avellana	N	P	Hazel	60-90cm 1+1	70 No
Cs	Cornus sanguinea	N	P	Dogwood	60-90cm 1+1	20 No
la	Ilex aquifolium	N	P	Holly	30-45cm 3Lpot	60 No
Vo	Viburnum opulus	N	P	Guelder Rose	60-90cm 1+1	20 No
	NURSERY HEDGES					
Ac	Acer campestre	N	P	Field Maple	60-90cm 1+1	135 No
Cb	Carpinus betulus	N	P	Hornbeam	60-90cm 1+1	135 No
Fs	Fagus sylvatica	N	P	Dogwood	60-90cm 1+1	135 No
	TOTAL					1436 No
	PLANTING BEDS 1-12					622 m2
Hpet	Hydrangea petiolaris		P	Self Clinging Climber	On Frame 90cm + 5L pot	8 No
HGL	Hedera helix Glacier		P	Self Clinging Climber	On Frame 90cm + 5L pot	5 No
HGH	Hedera helix Goldheart		P	Self Clinging Climber	On Frame 90cm + 5L pot	3 No
Ab	Abelia grandiflora		P	Abelia	40-60cm 3Lpot	185 No
As	Asplenium scolopendrium	N		Harts Tongue Fern	2Lpot	76 No
Bal	Ballota pseudodictamnus		P	False Dittany	20-30cm 2Lpot	424 No
CA	Cordyline australis			Cordyline	90cm 10Lpot	15 No
Cv	Calluna vulgaris	N	P	Native Heather Pink	2Lpot	160 No
CC	Cistus corbariensis			Rock Rose	45-60cm 3Lpot	35 No
CAZ	Choisya Aztec Pearl			Mexican Orange	45-60cm 3Lpot	65 No
EK	Erigeron Profusion		P	Mexican Fleabane	2Lpot	180 No
EEG	Euonymus Emerald Gaiety			Dwarf Euonymus	20-30cm 2Lpot	464 No
EH	Euonymus Harlequin			Dwarf Euonymus	20-30cm 2Lpot	316 No
Fg	Festuca glauca Intense Blue			Blue Grass	2Lpot	140 No
Hcal	Hebe caledonia		P	Hebe	20-30cm 2Lpot	313 No
HH	Hedera Hibernica	N	P	Form of large leafed Ivy	60-90cm 2Lpot	235 No
IJCT	Ilex JC Van Tol		P	Form of Holly	30-45cm 3Lpot	85 No
Pset	Polypodium setiferum	N		Evergreen Fern	2Lpot	98 No
POL	Prunus Otto Luyken			Dwarf Laurel	45-60cm 2Lpot	87 No
Sc	Santolina chamaecyparissus			Lavender Cotton	30-45cm 3Lpot	210 No
VEP	Viburnum tinus Gwenllian		P	Viburnum	45-60cm 3Lpot	224 No
VmBV	Vinca minor Bowles Variety			Periwinkle	20-30cm 2Lpot	135 No
	TOTAL					3463 No
	AMENITY GRASS AREAS			NURSERY GRASS AREA	G1 & G2	430 m2
	CONSERVATION GRASS MIX					
	Phoenix Amenity Supplies	N		Slender Creeping Red Fescue		20 %
	support@phoenixamenity.co.uk	N		Creeping Red Fescue		40 %

LIDL STORE : GLAN LLYN : NEWPORT				Rev 9 December2024	Rev 29 August 2024
TREE PLANTING				13-Aug-24	Rev 19 August 2024
KEY	SPECIES	Native	Pollinator	NAME	SIZE
	01684 212020	N		Smooth Stalked Meadow Grass	7 %
	Alternative turfing area can be considered	N		Hard Fescue	10 %
		N		Chewings Fescue	20 %
		N		Browntop Bent	3 %
	Seed at rate of 30 gms per sqm or similar turf to be used				100 %
	WILD FLOWER GRASS AREAS			NATIVE BLOCK 2	318 m2
	EH1 HEDGEROW MIXTURE				
	Emorsgate Seeds				
	enquires@emorsdgateseeds.com				
	01553 829028				
	Agrostis capillaris	N		Common Bent	2.40 %
	Anthoxanthum odoratum	N		Sweet Vernal Grass	1.60 %
	Brachypodium sylvaticum	N		False Brome	0.80 %
	Cynosurus cristatus	N		Crested Dogstail	48.00 %
	Festuca rubra	N		Slender Creeping Red Fescue	19.2 %
	Deschampsia cespitosa	N		Tufted Hair Grass	1.60 %
	Poa nemoralis	N		Wood Meadow Grass	6.40 %
	Agrimonia eupatoria	N	P	Agrimony	0.5 %
	Allaria petiolata	N	P	Garlic Mustard	1.0 %
	Anthriscus sylvestris	N	P	Cow Parsley	0.5 %
	Arctium minus	N	P	Lesser Burdock	1.0 %
	Centaurea nigra	N	P	Common Knapweed	2.0 %
	Chaerophyllum temulum	N	P	Rough Chevil	0.4 %
	Cruciata laevipes	N	P	Crosswort	0.8 %
	Daucus carota	N	P	Wild Carrot	0.8 %
	Dipsacus fullonum	N	P	Wild Teasel	1.5 %
	Filipendula ulmaria	N	P	Meadowsweet	0.4 %
	Galium album	N	P	Hedge Bedstraw	1.5 %
	Geum urbanum	N	P	Wood avens	0.4 %
	Geranium pratense	N	P	Meadows Crane Bill	0.3 %
	Lathyrus sylvestris	N	P	Narrow-Leafed Everlasting Pea	1.0 %
	Leucanthemum vulgare	N	P	Moon Daisy	1.2 %
	Malva moschata	N	P	Musk Mallow	1.0 %
	Origanm vulgaris	N	P	Wild Marjoram	0.3 %
	Plantago lanceolata	N	P	Ribwort Plantain	0.8 %
	Primula veris	N	P	Cowslip	0.6 %
	Rumex acetosa	N	P	Sorrel	0.4 %
	Silene dioica	N	P	Red Campion	2.0 %
	Silene vulgaris	N	P	Bladder Campion	0.8 %
	Vicia cracca	N	P	Tufted Vetch	0.8 %
	TOTAL				100 %
	sow at rate of 4gms per sqm				



- Trees and Vegetation to be Removed
- Retained Hedge Section
- Existing Trees and Vegetation and retained trees
- Grass Areas
- Existing Planting Beds/ Native Stream side Vegetation
- Field Vegetation in Reen Area
- Rough Grass Area
- Bank/ Contours
- Pond, Streams & Reens
- Fence
- Application Boundary
- Easement

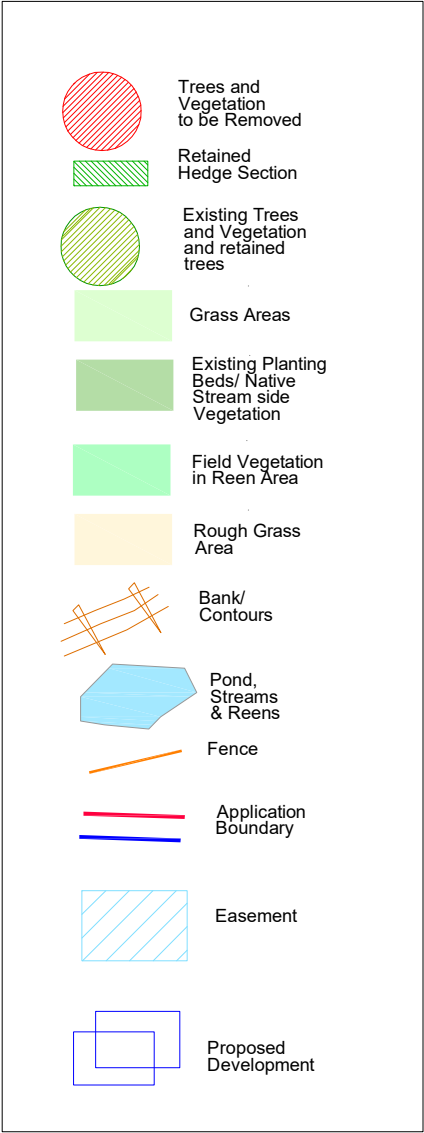
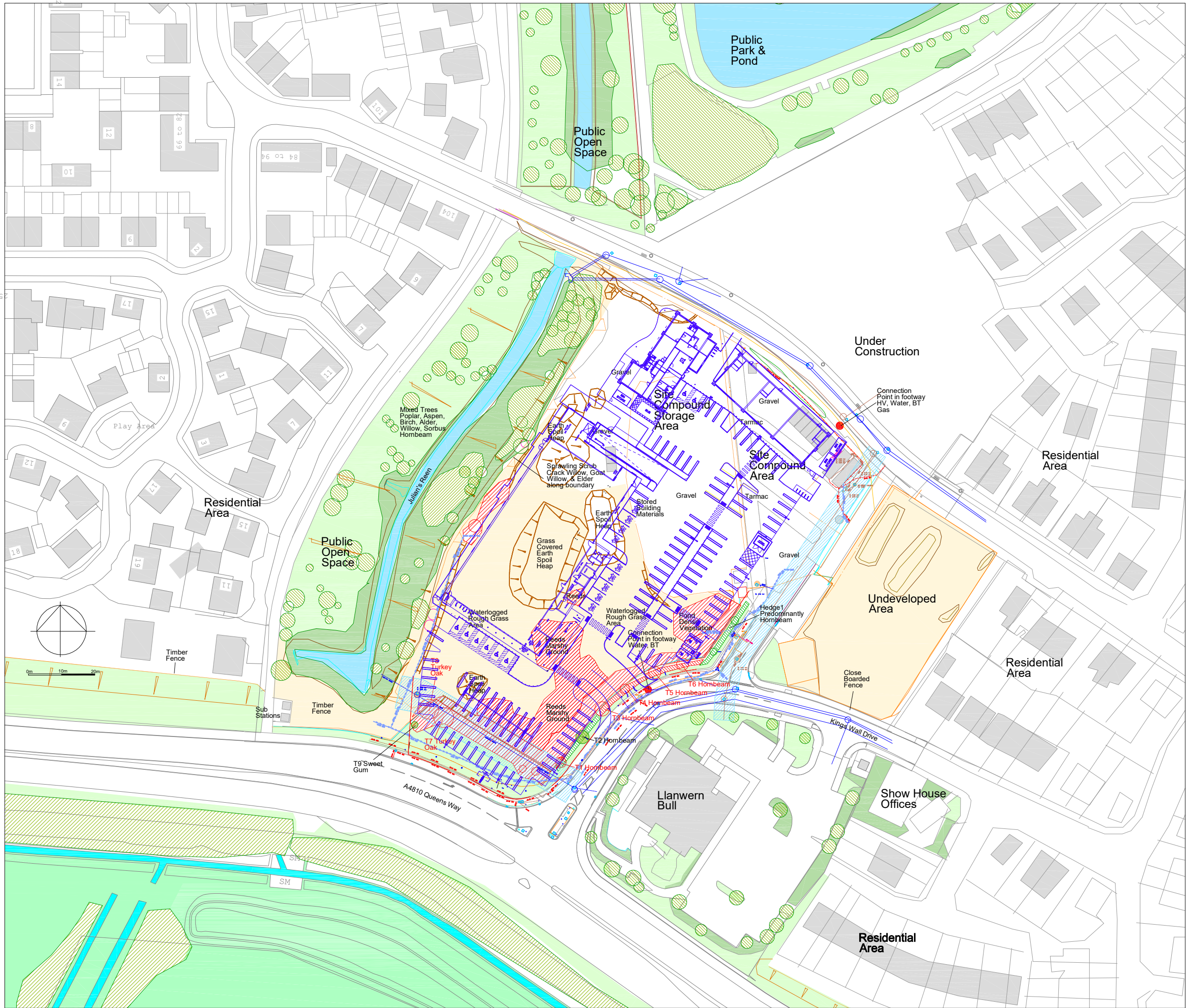
CA-2024- GL-01 Rev A
30 July 2024
Easement and additional services added

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Project
**GLAN LLYN
NEWPORT
NP19 4TZ**
Drawing Title
EXISTING FEATURES

Scale
1:750 at A2
Date
12 June 2024

Drawing No
173 CA-2024- GL-01 Rev A



CA-2024- GL-02 Rev A
30 July 2024
Easement and additional
services added and
revised layout

CA-2024- GL-02 Rev B
7 December 2024
Revised layout

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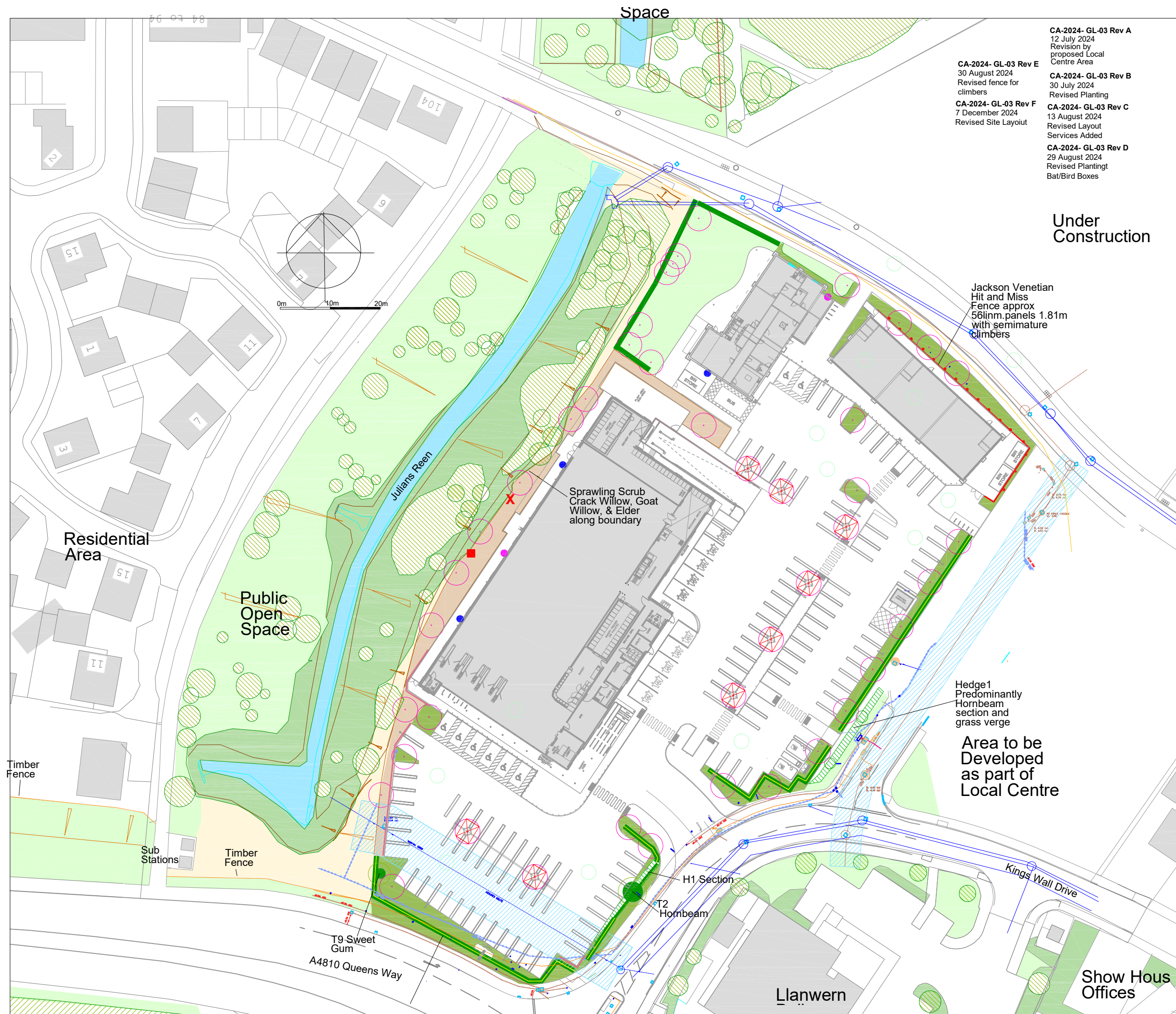
Project
**GLAN LLYN
NEWPORT
NP19 4TZ**

Drawing Title
**EXISTING FEATURES
AND OVERLAY**

Scale
1:750 at A2

Date
12 June 2024

Drawing No
173 CA-2024- GL-02 Rev B



- | | |
|---|--|
|  | Retained Hedge Section |
|  | Retained Tree on Site |
|  | Existing Trees and Vegetation and retained trees |
|  | Grass Areas |
|  | Existing Planting Beds/ Native Stream side Vegetation |
|  | Field Vegetation in Reen Area |
|  | Rough Grass Area |
|  | Bank/Contours |
|  | Pond, Streams & Reens |
|  | Fence |
|  | Application Boundary |
|  | |
|  | Proposed Tree Planting |
|  | Proposed Tree Planting in hard areas with structural tree pit and tree grill |
|  | Proposed 1800mm Trellis/Fence |
|  | Proposed Hedge |
|  | Proposed Hedge and central hedge |
|  | Proposed Planting Beds |
|  | Proposed Native blocks |
|  | External Nursery Area |
|  | Bat Box |
|  | Bird Box |
- In accordance with Ecologist's recommendations
- | | |
|---|--------------|
|  | Hibernaculum |
|  | Logpiles |

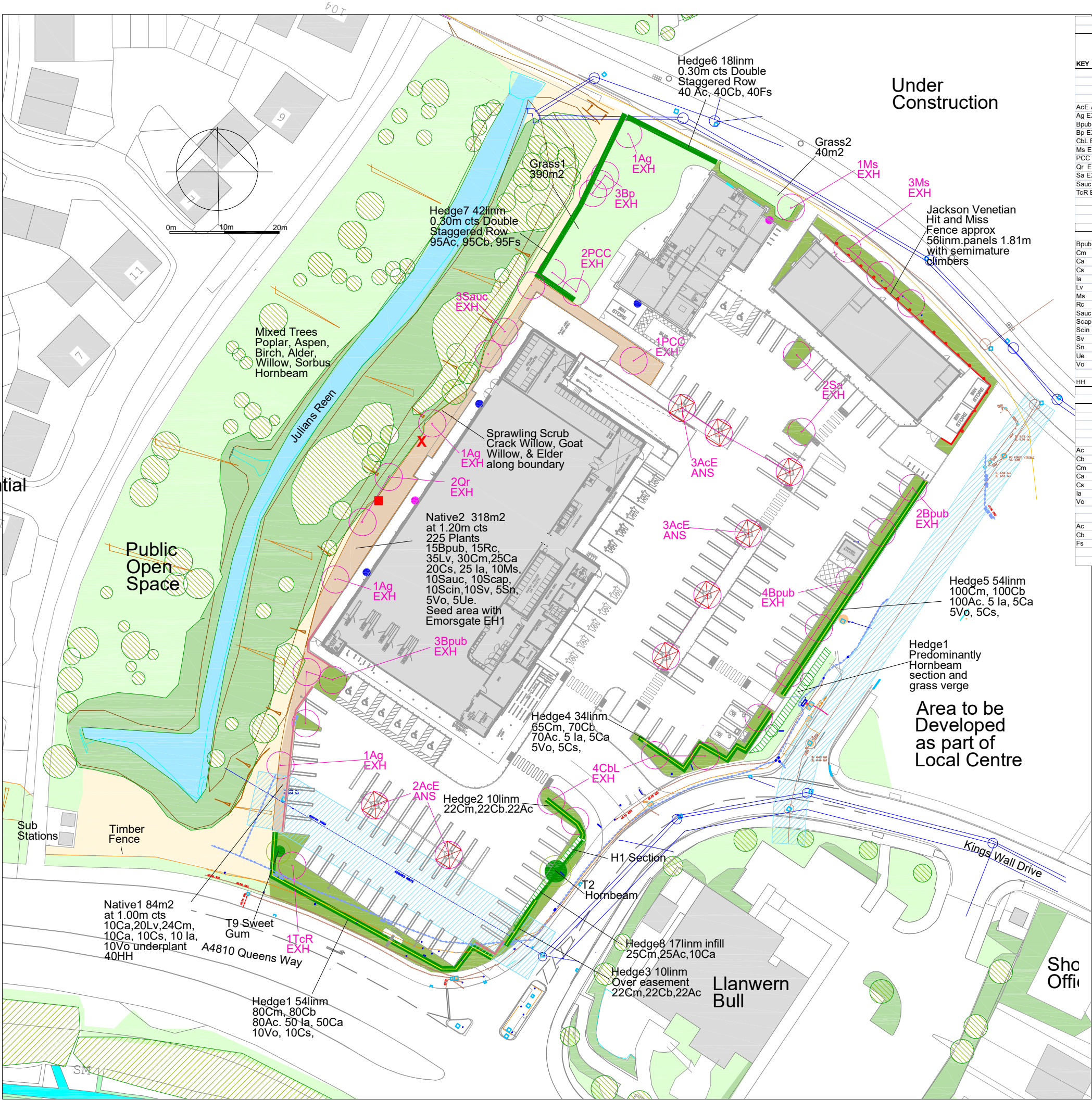
Corscadden Associates
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Tel 07966 423074
corscaddenassociates.com

Project
**GLAN LLYN
NEWPORT
NP19 4TZ**

Drawing Title
**LANDSCAPE
PROPOSALS OVERALL**

Scale	Date
1:500 at A2	12 June 2024

Drawing No
173 CA-2024- GL-03 Rev F



LIDL STORE : GLAN LLYN : NEWPORT				Rev 9 December2024	Rev 29 August 2024	
TREE PLANTING				13-Aug-24	Rev 19 August 2024	
		Native	Pollinator			
KEY	SPECIES			NAME	SIZE	QTY
	All trees to be rootballed for autumn planting/winter planting only					
	All Tree pits 1500 x 1500mm square as indicated					
	Oaks to be only UK grown from nursery confirmed free of Oak processionary moth.					
AcE ANS	Acer campestre William Caldwell	N	P	Field Maple	18-20cm girth Advanced Nursey Std	8
Ag EXH	Alnus glutinosa	N		Alder	14-16cm girth Extra Heavy Standard	4
Bpub EXH	Betula pubescens	N		Downy Birch	14-16cm girth Extra Heavy Standard	9
Bp EXH	Betula pendula	N		Silver Birch	14-16cm girth Extra Heavy Standard	3
Cbl EXH	Carpinus betulus Lucas	N	P	Hornbeam	14-16cm girth Extra Heavy Standard	4
Ms EXH	Malus sylvestris	N	P	Crab Apple	14-16cm girth Extra Heavy Standard	4
PCC EXH	Pyrus calleryana Chanticleer	N	P	Type of Pear	14-16cm girth Extra Heavy Standard	3
Qr EXH	Quercus robur	N	P	Oak	18-20cm girth Adv Nursery Standard	2
Sa EXH	Sorbus aria	N	P	Whitebeam	14-16cm girth Extra Heavy Standard	3
Sauc EXH	Sorbus aucuparia	N	P	Rowan	14-16cm girth Extra Heavy Standard	1
TcR EXH	Tilia cordata Rancho	N	P	Small leaved lime	14-16cm girth Extra Heavy Standard	1
TOTAL						42
NATIVE BLOCKS				NATIVE 1-3		402
				Plant at 1.00m cts or 1.20m cts		
Bpub	Betula pubescens	N	P	Woolly Birch	60-90cm 1+1	15
Cm	Crataegus monogyna	N	P	Hawthorn	60-90cm 1+1	49
Ca	Corylus avellana	N	P	Hazel	60-90cm 1+1	35
Cs	Cornus sanguinea	N	P	Dogwood	60-90cm 1+1	30
la	Ilex aquifolium	N	P	Holly	30-45cm 3Lpot	35
Lv	Ligustrum vulgare	N	P	Wild Privet	60-90cm 1+1	55
Ms	Malus sylvestris	N	P	Crab Apple	60-90cm 1+1	10
Rc	Rosa canina	N	P	Dogr Rose	60-90cm 1+1	15
Sauc	Sorbus aucuparia	N	P	Rowan	60-90cm 1+1	10
Scap	Salix capraea	N	P	Goat Willow	60-90cm 0/1	10
Scin	Salix cinerea	N	P	Grey Willow	60-90cm 0/1	10
Sv	Salix viminalis	N	P	Crack Willow	60-90cm 0/1	10
Sn	Sambucus nigra	N	P	Elder	60-90cm 1+1	5
Ue	Ulex europaeus	N	P	Gorse	30-45cm 3Lpot	5
Vo	Viburnum opulus	N	P	Guelder Rose	60-90cm 1+1	15
TOTAL						349
HEDGEROWS 1-8				HEDGE 1-8		232
DOUBLE ROW as indicated				Double Row	Plant at 0.30m cts	215
SINGLE ROW as indicated				Single row	Plant at 0.30m cts	17
CENTRAL FENCE as indicated						155
Ac	Acer campestre	N	P	Field Maple	60-90cm 1+1	292
Cb	Carpinus betulus	N		Hornbeam	60-90cm 1+1	272
Cm	Crataegus monogyna	N	P	Hawthorn	60-90cm 1+1	297
Ca	Corylus avellana	N	P	Hazel	60-90cm 1+1	70
Cs	Cornus sanguinea	N	P	Dogwood	60-90cm 1+1	20
la	Ilex aquifolium	N	P	Holly	30-45cm 3Lpot	60
Vo	Viburnum opulus	N	P	Guelder Rose	60-90cm 1+1	20
NURSERY HEDGES						
Ac	Acer campestre	N	P	Field Maple	60-90cm 1+1	135
Cb	Carpinus betulus	N	P	Hornbeam	60-90cm 1+1	135
Fs	Fagus sylvatica	N	P	Dogwood	60-90cm 1+1	135
TOTAL						1436

AMENITY GRASS AREAS		NURSERY GRASS AREA		G1 & G2	430 m2
CONSERVATION GRASS MIX					
Phoenix Amenity Supplies	N	Slender Creeping Red Fescue			20 %
support@phoenixamenity.co.uk	N	Creeping Red Fescue			40 %
01684 212020	N	Smooth Stalked Meadow Grass			7 %
Alternative turfing area can be considered	N	Hard Fescue			10 %
	N	Chewings Fescue			20 %
	N	Browntop Bent			3 %
Seed at rate of 30 gms per sqm or similar turf to be used					100 %
WILD FLOWER GRASS AREAS		NATIVE BLOCK 2			318 m2
EH1 HEDGEROW MIXTURE					
Emorsgate Seeds					
enquires@emorsdgateseeds.com					

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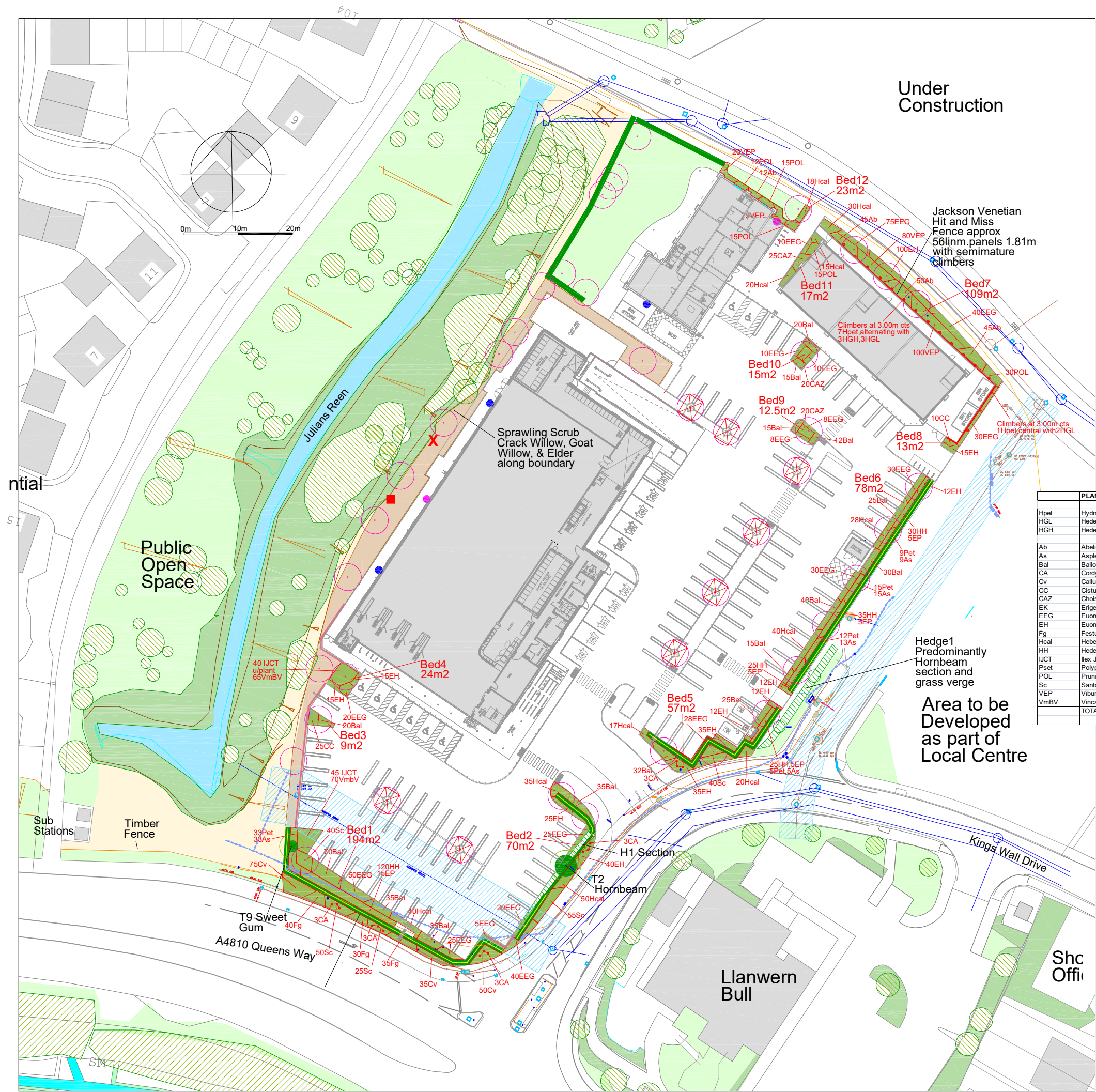
Project
**GLAN LLYN
NEWPORT
NP19 4TZ**
Drawing Title
**LANDSCAPE PROPOSALS
TREES, HEDGES, NATIVE
BLOCKS**

Scale
1:500 at A2
Date
12 June 2024

Drawing No
173 CA-2024- GL04 Rev C

CA-2024- GL-04 Rev C
9 December2024
Revised Layout

CA-2024- GL-04 Rev B
30 August 2024
Revised Fence for climbers
Bird bat boxes
CA-2024- GL-04 Rev A
24 August 2024
Revised Planting



CA-2024- GLY-05 Rev A
30 August 2024
Fence modified
for climbers

CA-2024- GLY-05 Rev B
9 December 2024
Revised Layout

	PLANTING BEDS 1-12					622 m2
Hpet	Hydrangea petiolaris		P	Self Clinging Climber	On Frame 90cm + 5L pot	8 No
HGL	Hedera helix Glacier		P	Self Clinging Climber	On Frame 90cm + 5L pot	5 No
HGH	Hedera helix Goldheart		P	Self Clinging Climber	On Frame 90cm + 5L pot	3 No
Ab	Abelia grandiflora		P	Abelia	40-60cm 3Lpot	185 No
As	Asplenium scolopendrium	N		Harts Tongue Fern	2Lpot	76 No
Bal	Ballota pseudodictamnus		P	False Dittany	20-30cm 2Lpot	424 No
CA	Cordylina australis			Cordylina	90cm 10Lpot	15 No
Cv	Calluna vulgaris	N	P	Native Heather Pink	2Lpot	160 No
CC	Cistus corbariensis			Rock Rose	45-60cm 3Lpot	35 No
CAZ	Choisya Aztec Pearl			Mexican Orange	45-60cm 3Lpot	65 No
EK	Erigeron Profusion		P	Mexican Fleabane	2Lpot	180 No
EEG	Euonymus Emerald Gaiety			Dwarf Euonymus	20-30cm 2Lpot	464 No
EH	Euonymus Harlequin			Dwarf Euonymus	20-30cm 2Lpot	316 No
Fg	Festuca glauca Intense Blue			Blue Grass	2Lpot	140 No
Hcal	Hebe caledonia		P	Hebe	20-30cm 2Lpot	313 No
HH	Hedera Hibernica	N	P	Form of large leafed Ivy	60-90cm 2Lpot	235 No
IJCT	Ilex JC Van Tol		P	Form of Holly	30-45cm 3Lpot	85 No
Pset	Polypodium setiferum	N		Evergreen Fern	2Lpot	98 No
POL	Prunus Otto Luyken			Dwarf Laurel	45-60cm 2Lpot	87 No
Sc	Santolina chamaecyparissus			Lavender Cotton	30-45cm 3Lpot	210 No
VEP	Viburnum tinus Gwenllian		P	Viburnum	45-60cm 3Lpot	224 No
VmBV	Vinca minor Bowles Variety			Periwinkle	20-30cm 2Lpot	135 No
	TOTAL					3463 No

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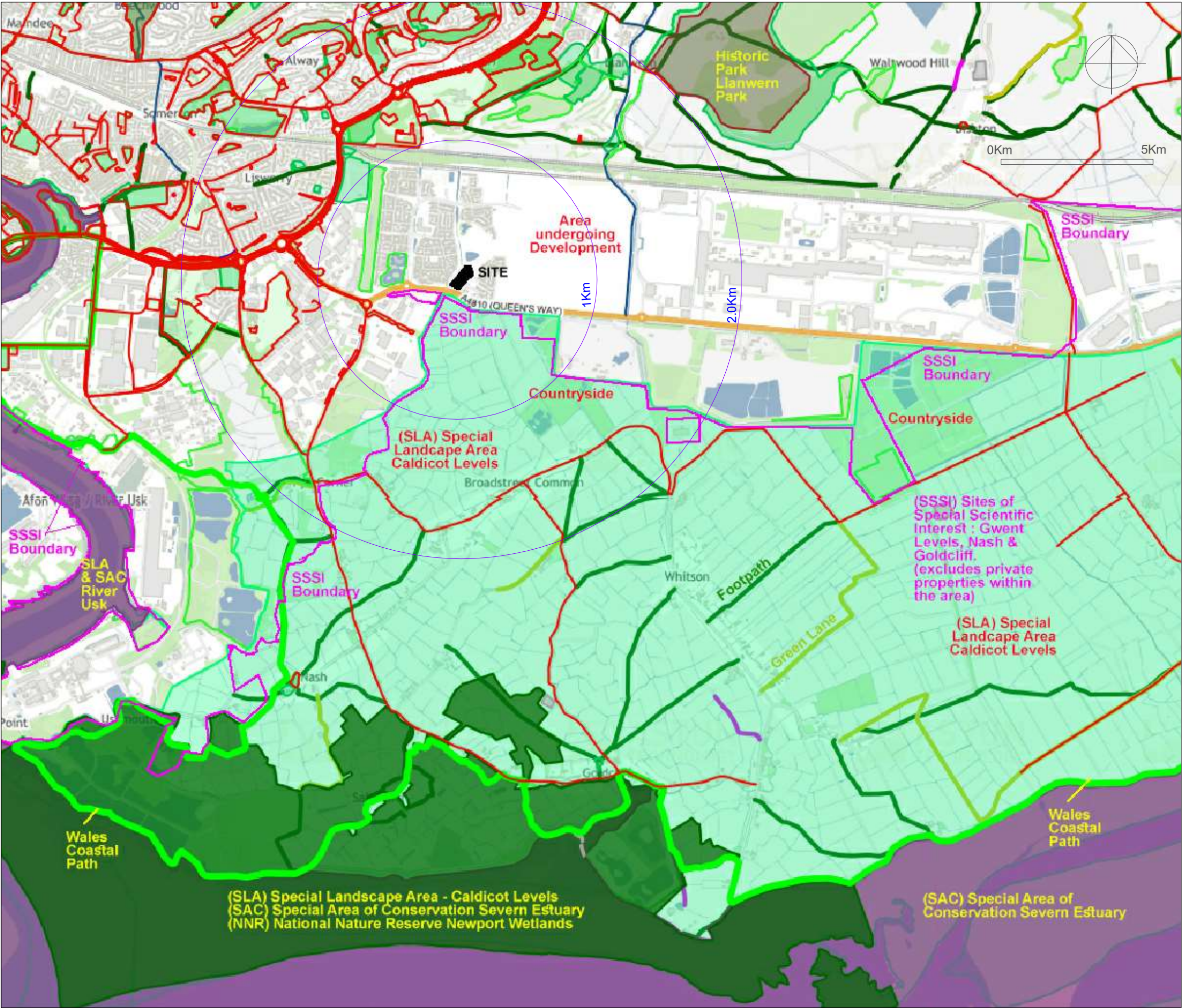
Project
**GLAN LLYN
NEWPORT
NP19 4TZ**

Drawing Title
**LANDSCAPE PLANTING
BED DETAILS**

Scale
1:400 at A2

Date
19 August 2024

Drawing No
173 CA-2024- GLY-05 Rev B



KEY
 Wales Coastal Path
 SSSI Sites of Special Scientific Interest
This is a large area below A4810 which excludes private houses
 (SAC) Special Area of Conservation ; Severn Estuary and River Usk
 (SLA) Special Landscape Area incl Caldicot Levels
 SINC Site of Importance for Nature Conservation

Historical Park or Garden
 Footpath
 Green Lane
 Tree Assessment Boundaries
 Environmental Space
 Site

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Project
**GLAN LLYN
NEWPORT
NP19 4TZ**

Drawing Title
**GLAN LLYN
DESIGNATED LANDSCAPES**

Scale
Not to Scale

Date
22 August 2024

Drawing No
173 CA-2024- GL-07



Green Infrastructure
Corridors- trees,
hedgerows, scrub,
grasslands, woods

Blue Infrastructure
Corridors- reens
ditches, ponds &
streams

Site

The Site is next to part of the Green Blue Infrastructure of the residential development. The Julian Reen and associated Open Space and footpath/cycleway run parallel to the Site's western boundary with scrub on the eastern bank of the reen up to the Site platform. The Julian Reen extends northwards alongside the Western Park with ponds, planting, footpath, cycleways, large grass areas. The reen goes as far as the railway line.

The proposed development has a series of interlinked ecological and water corridors across the area including existing reens. The western section is constructed and the eastern section awaits development.

The Reen system south of Queensway is an intricate pattern of ditches reens and ponds.

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Project
**GLAN LLYN
NEWPORT
NP19 4TZ**

Drawing Title
**GLAN LLYN : GREEN
INFRASTRUCTURE**

Scale
Not to Scale

Date
22 August 2024

Drawing No
173 CA-2024- GL-08