

CUNNANE STRATTON REYNOLDS
LAND PLANNING & DESIGN

**Proposed Large Scale Residential Development at the Former DELL
EMC premises, Innishmore, Ballincollig, Cork**

Landscape Design Rationale

PROJECT NO. 25108

February 2026

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01. INTRODUCTION, CONTEXT & ANALYSIS

INTRODUCTION

Castle Peak Properties Ltd intend to apply for planning permission for a Large-Scale Residential Development (LRD) at this c. 1.0 ha site of the former DELL EMC premises, Innishmore, Ballincollig, Cork.

The proposed development will consist of the demolition of the existing former 2 no. storey DELL EMC building (c. 3882 sq m) and ancillary plant area, with associated site clearance works. The proposed development will provide for the 130 no. residential units, arranged in 3 no. blocks in a development ranging in height from 3 to 6 no. storeys.

The development will comprise a mix of 108 no. apartments (total apartment blocks area - c. 10,657 sqm), arranged in 2 no. blocks, providing a unit mix of 52 no. 1-bed and 56 no. 2-bed apartment units. In addition, the proposed development will provide 22 no. duplex units (total duplex block area - c. 2,159 sqm), arranged in 1 no. block, providing a unit mix of 4 no. 1-bed, 9 no. 2-bed, and 9 no. 3 beds.

Vehicular, cyclist and pedestrian access to the proposed development will be via 2 no. entrances from Innishmore Lawn (to the north east) and Mechterstadt Road (to the south west) and the development will include for pedestrian and cyclist permeability. Additionally, pedestrian access points are provided to the west of the subject site and to the south, off Mechterstadt Road.

The development will also include the provision of private, communal and public open space (including all balconies); car parking at ground floor level and undercroft; bicycle parking; internal roads and pathways; bin stores; hard and soft landscaping; boundary treatments; the provision of new surface water and foul drainage pipes and any associated pipe diversion works; retaining walls; changes in level; services provision and related ducting, piping and cabling; electric vehicle charging points; attenuation tanks; SUDS; signage; 1 no. ESB substation; wayfinding structures; public realm works including public lighting; and all site development and excavation works above and below ground. The application contains a statement setting out how the proposal will be consistent with the objectives of the Cork City Development Plan 2022-2028..

SITE LOCATION AND DEVELOPMENT CONTEXT

Landscape Design Rationale – Proposed Large Scale Residential Development at the Former DELL EMC premises, Innishmore, Ballincollig, Cork

The site is roughly square in shape and comprises a large commercial property and associated car parking that has been disused since DELL EMC vacated it in 2021. The site is enclosed along its eastern and southern boundaries by metal fencing and hedging. The western and northern boundaries are generally open as they abut West City Retail Park and the site to the North.

The subject site is located approx. 10.4 kilometres to the west of Cork city centre, and directly adjacent to West City Retail Park. The development is accessed from both Mechterstadt Road & Innishmore Lawn.



Subject site

BALLINCOLLIG
REGIONAL PARK

Cork City
Council Parks
Department

WEST CITY
RETAIL PARK

SITE

Innishmore Lawn

Mechterstadt Road

Inniscara Road

Ballincollig
Health Centre

CORK CITY

Subject site

5

4

1

2

3

EXISTING VEGETATION ANALYSIS

The site boundary is defined by a 2 m high *Prunus laurocerasus* (cherry laurel) hedge, with occasional ornamental coniferous trees located in the south-western corner. At the entrance, there are several trees situated outside the boundary fence, though they may fall within the wider red line boundary. These mature trees are outside the development area and will remain unaffected. Internally, the site contains extensive areas of overgrown and over-mature ornamental and exotic shrub planting. Mass plantings occupy the adjoining slopes and internal planting beds, with species including:

- Prunus laurocerasus* (cherry laurel)
- Cotoneaster* spp.
- Cordyline*
- Ligustrum* (privet)
- Clematis vitalba*
- Pyracantha* spp.
- Elaeagnus*
- Prunus* spp.
- Thuja*
- Lonicera*
- Fuchsia* spp.

All of the above shrub vegetation is proposed for removal as part of the development works. All of the trees along the boundary (outside the fenceline) are to be retained.



Existing Planting Diagram



Prunus laurocerasus hedge



Ligustrum & Clematis vitalba



Pyracantha spp.

LEGEND

Existing Trees to be retained

Ornamental / Exotic Shrub Planting

Laurel Hedge



Cotoneaster spp. & Cordyline



Betula spp. to be retained – inside boundary



Cotoneaster, Elaeagnus, Prunus, thuja Lonicera, Fushia, etc.

GREEN & BLUE INFRASTRUCTURE: PRINCIPLES AND THEMES

A green infrastructure strategy in an urban context prioritises the integration of street trees, green roofs, pocket parks, and urban planting within the development, enhancing biodiversity and creating high-quality public spaces. Simultaneously, a blue infrastructure strategy focuses on managing water resources through features such as rain gardens, permeable surfaces, urban wetlands, and sustainable drainage systems (SuDS) to mitigate flood risk and support climate resilience.

This approach not only enhances ecosystem health and urban biodiversity but also contributes to improved air quality, urban cooling, and overall well-being for residents. Achieving this requires careful planning and innovative design solutions to seamlessly embed green and blue infrastructure into the urban fabric, ensuring both ecological and social benefits.

Ultimately, these strategies aim to create sustainable, resilient, and liveable urban environments, supporting climate adaptation while enhancing the quality of life for city dwellers.



GREEN BLUE INFRASTRUCTURE: KEY COMPONENTS:

Sustainable Urban Drainage Systems (SuDS) aim to manage stormwater effectively, minimize flood risks, and promote sustainable water management practices. By implementing a comprehensive SUDS strategy, a development site can enhance its resilience to extreme weather events, protect water resources, and create more sustainable and environmentally-friendly living environments. SuDS proposals must be developed appropriate to local site ground conditions integral to the overall drainage strategy for the site. SuDS components can make a significant contribution to the biodiversity (ecological) value of an area.

Typical SUDS Components:

- Permeable Paving
- Rain Gardens
- Swales
- Green Roofs
- Infiltration Basins

Many of these SUDS components are being developed and incorporated into the emerging design within the constraints of the local ground conditions / geology.

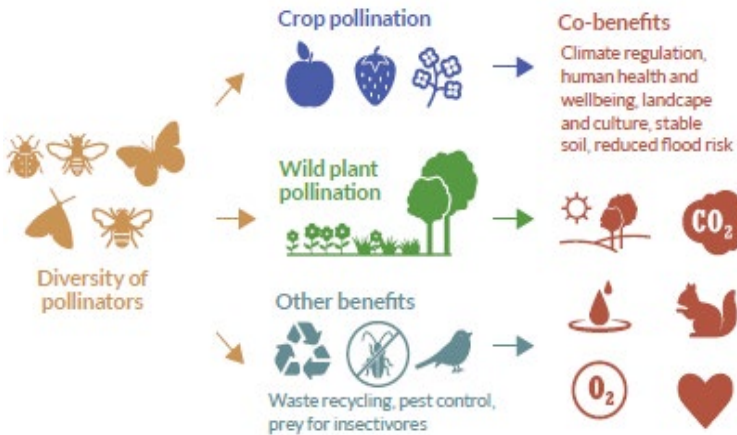


SuDS example – green roof

Enhancing **biodiversity** in urban developments contributes to the creation of **resilient and ecologically rich environments**, supporting both nature and community well-being.

Biodiversity is strengthened through the **integration of existing vegetation and habitats** alongside the introduction of **green infrastructure**, such as green roofs, urban woodlands, pocket spaces, and biodiverse planting schemes. These elements help establish **biodiversity corridors**, linking green spaces within the development to the wider urban landscape.

Key strategies include **street tree planting, green walls, rain gardens, and pollinator-friendly planting**, with an emphasis on **native species** that support urban wildlife. These measures not only enhance ecological networks but also improve air quality, provide urban cooling, and create a more attractive, liveable city environment. These principles will be at the core of the design and specification of the landscape design as it develops.



The benefits of protecting pollinators

Public Open Spaces have an important role to play in promoting biodiversity.

Open spaces accommodate the retention of existing site green infrastructure and the provision of new tree planting and grass meadows through differential mowing regimes.

This approach promotes biodiversity and enhances the overall ecological balance of a site. Its delivery must be suitably informed and considered so as to meet recreational requirements such as the provision of kick-about spaces, and pedestrian and cycle permeability which is welcoming and safe.

This approach underscores a commitment to sustainable urban planning, creating neighbourhoods which provide access to thriving green environments.

The emerging landscape masterplan seeks to capture these objectives in its' open space arrangement.



Variety of habitats, use and function in public open spaces

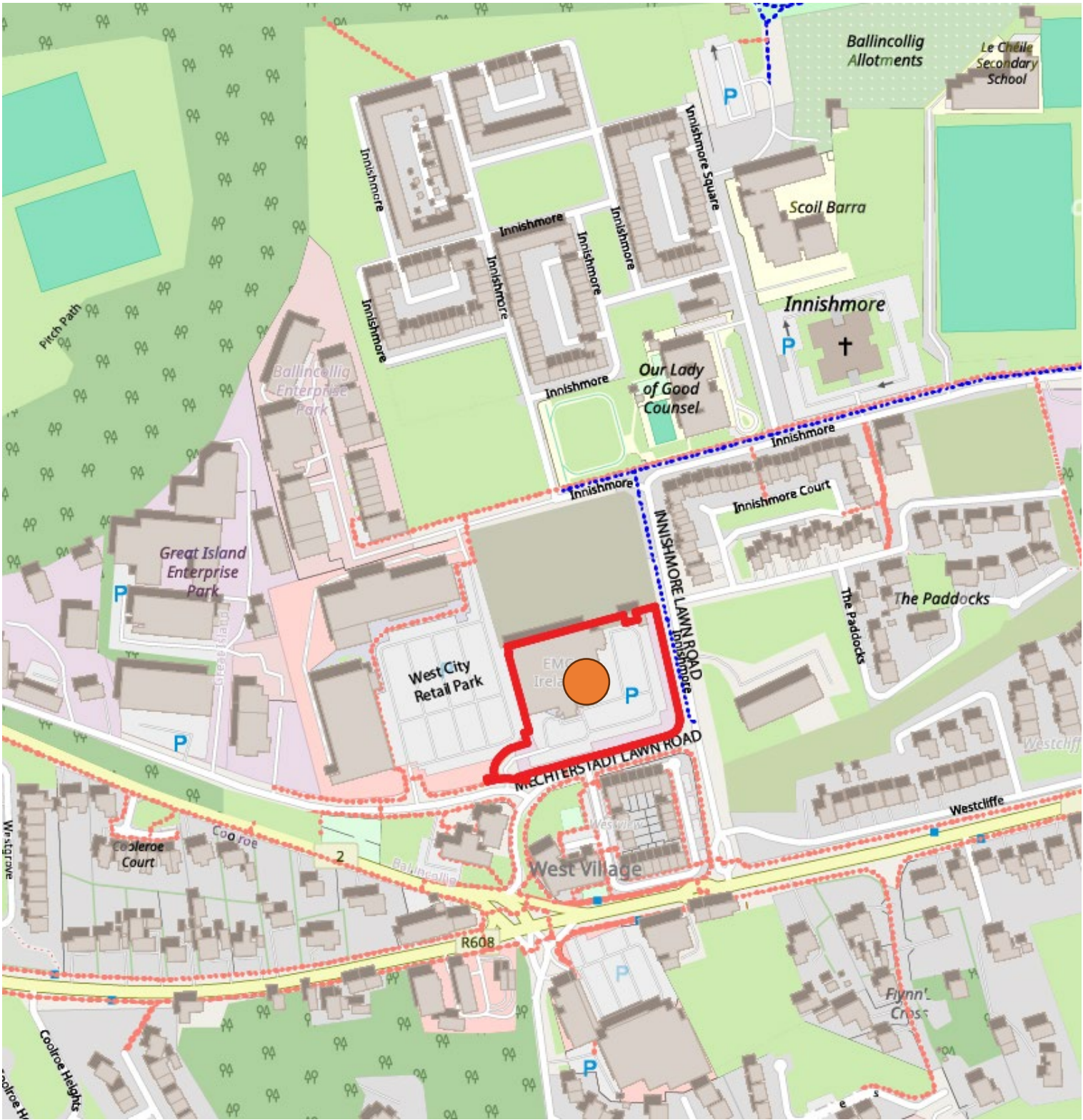
Concluding Notes: The emerging landscape design rationale for this site is underpinned by the principles of green and blue infrastructure. These components are integral to creating a resilient, sustainable, and high-quality living environment. The proposed landscape strategy prioritises ecological connectivity, biodiversity enhancement, sustainable water management, and improved well-being for future residents. By embedding these principles at the core of the design, the development aligns with current best practices in planning policy and contributes meaningfully to the wider environmental and social context of the area.

GREEN & BLUE INFRASTRUCTURE: LOCAL AREA OVERVIEW

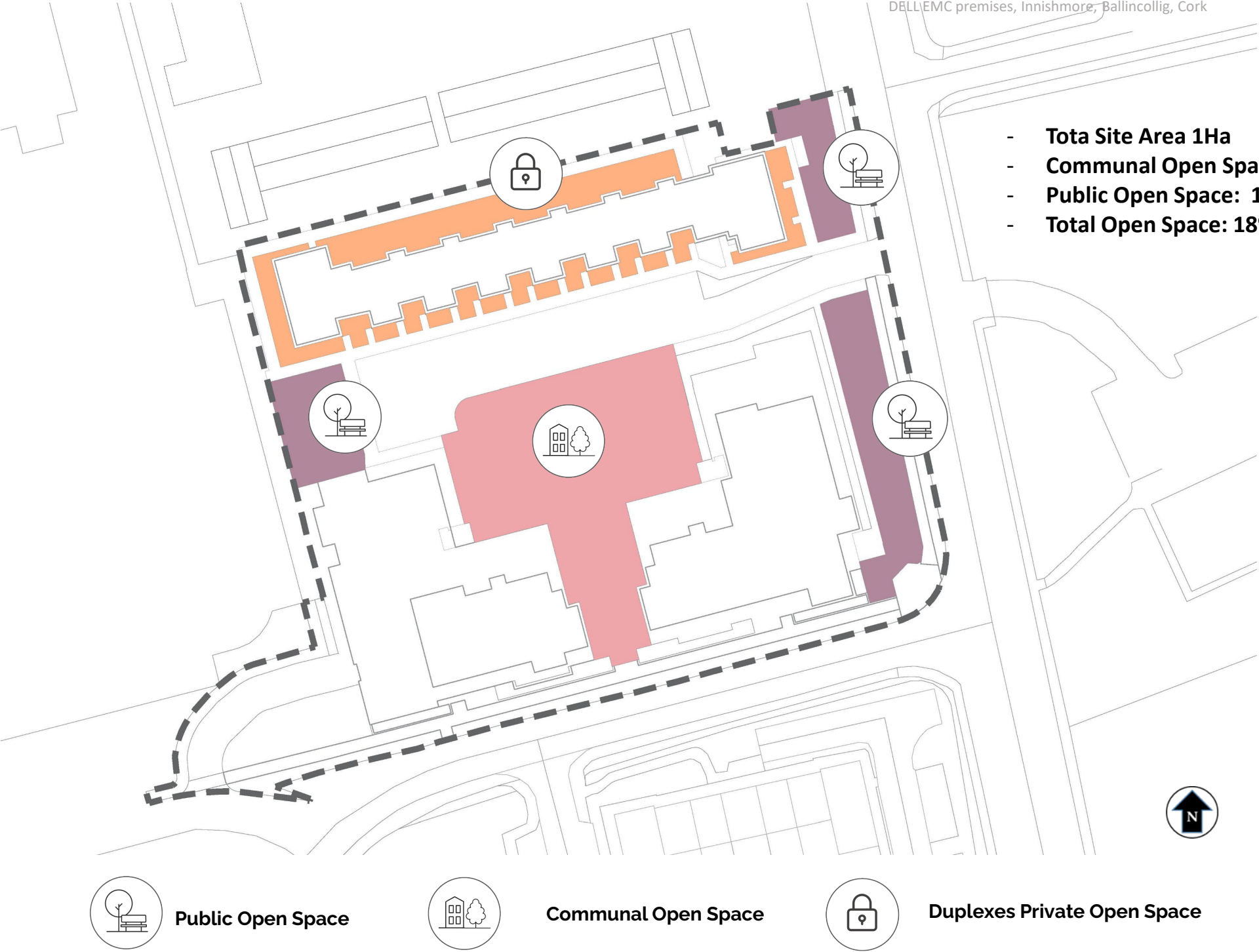
The area surrounding the subject site well-integrated into the local green infrastructure, particularly with the nearby Ballincollig Regional Park with connecting cycle paths that enables people to choose healthier means of transportation along with an extensive net of walking and cycle paths in the streetscape around this area. This expansive park offers walking trails, riverside paths, and a Pollinator Corridor that promotes biodiversity. Recent initiatives, such as the development of a biodiversity hub at the former Powdermills Visitor Centre, underscore the area's commitment to environmental conservation and sustainable development.



- Subject Site 
- Sports & Recreation 
- Amenity Open Space 
- Woodland 
- Brownfield Sites 
- Footway 
- Cycleway 

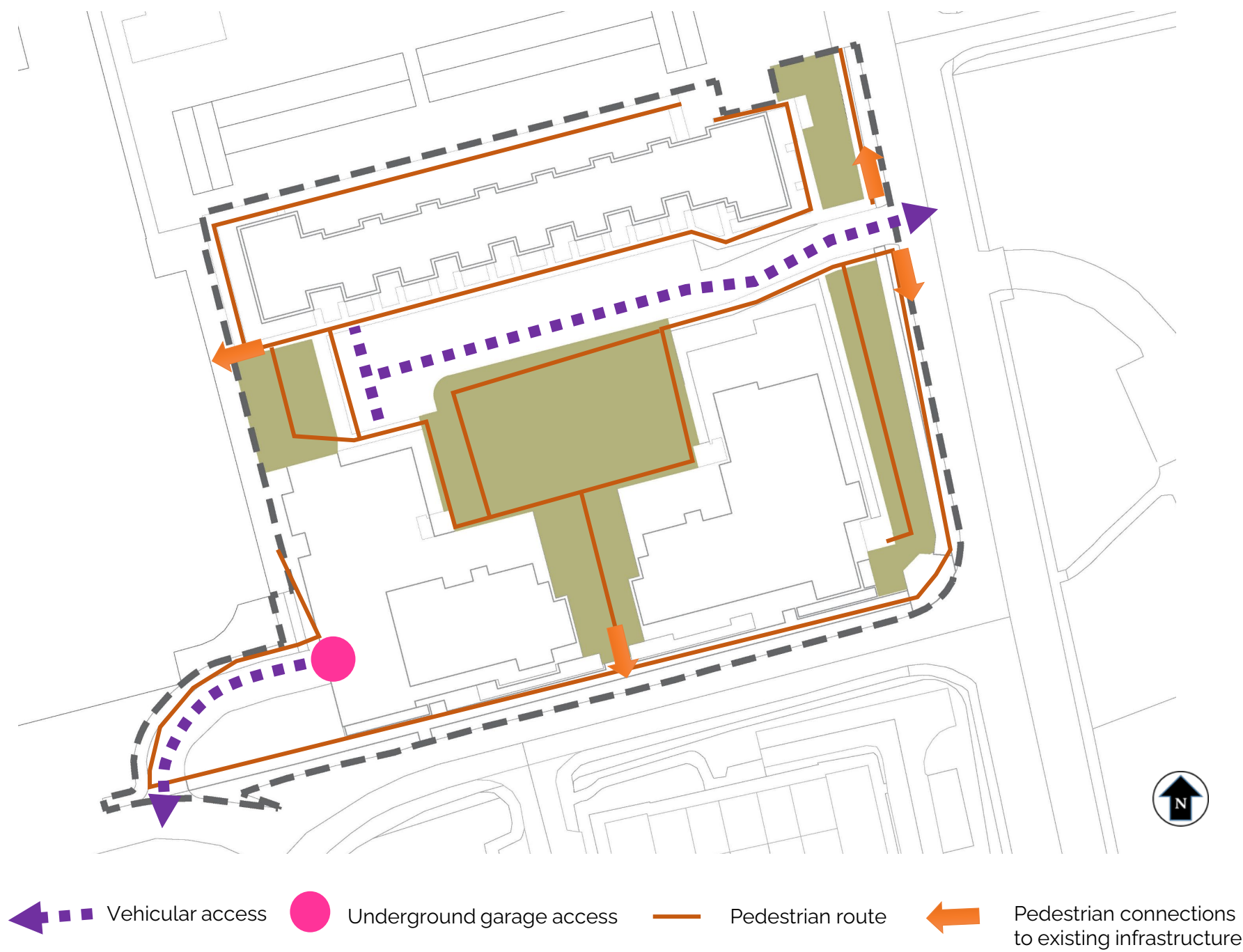


02. DESIGN CONCEPT



PUBLIC, COMMUNAL & PRIVATE OPEN SPACE

This Landscape approach aims to develop a comprehensive and context-sensitive landscape design strategy that incorporates essential elements of sustainable urban development and gives continuity to the existent Green Infrastructure. Key components will include multifunctional green spaces, sustainable drainage systems (SuDS) and pollinator-friendly planting. The main objective is to create an inclusive, and ecologically rich landscape that promotes well-being, encourages community engagement, and aligns with national initiatives such as the All-Ireland Pollinator Plan 2021-2025, the Climate Action Plan 2025, and the principles of nature-based solutions.

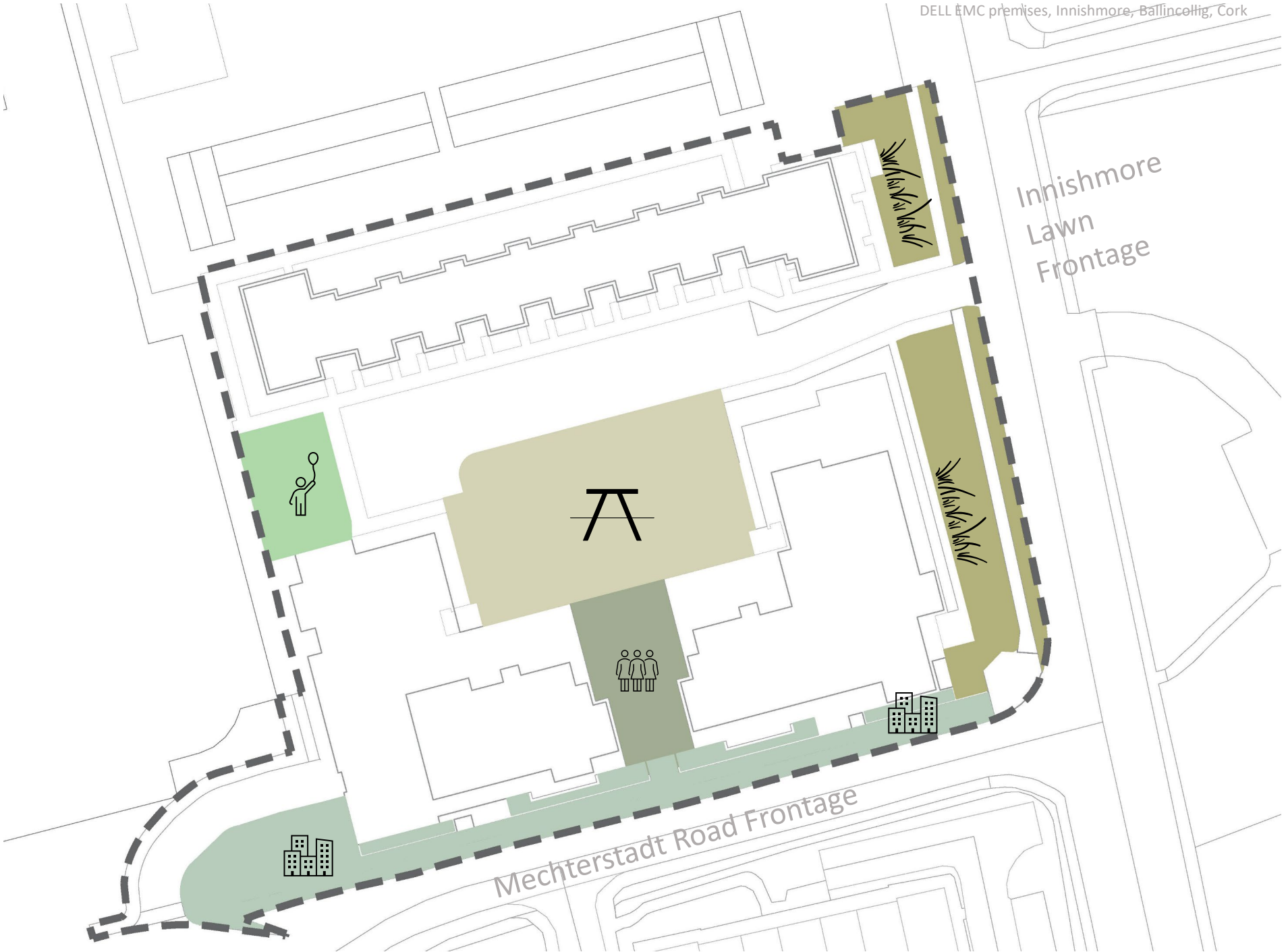


CIRCULATION

The proposed network of pedestrian paths will provide:

- Access to and from the main site entrance on Mechterstadt Road Frontage & Innishmore Lawn
 - Circulation to amenity spaces within the immediate curtilage of the apartment blocks.

The proposed footpath network will provide universal access for residents and visitors alike, thus, promoting inclusivity and a user-friendly environment.



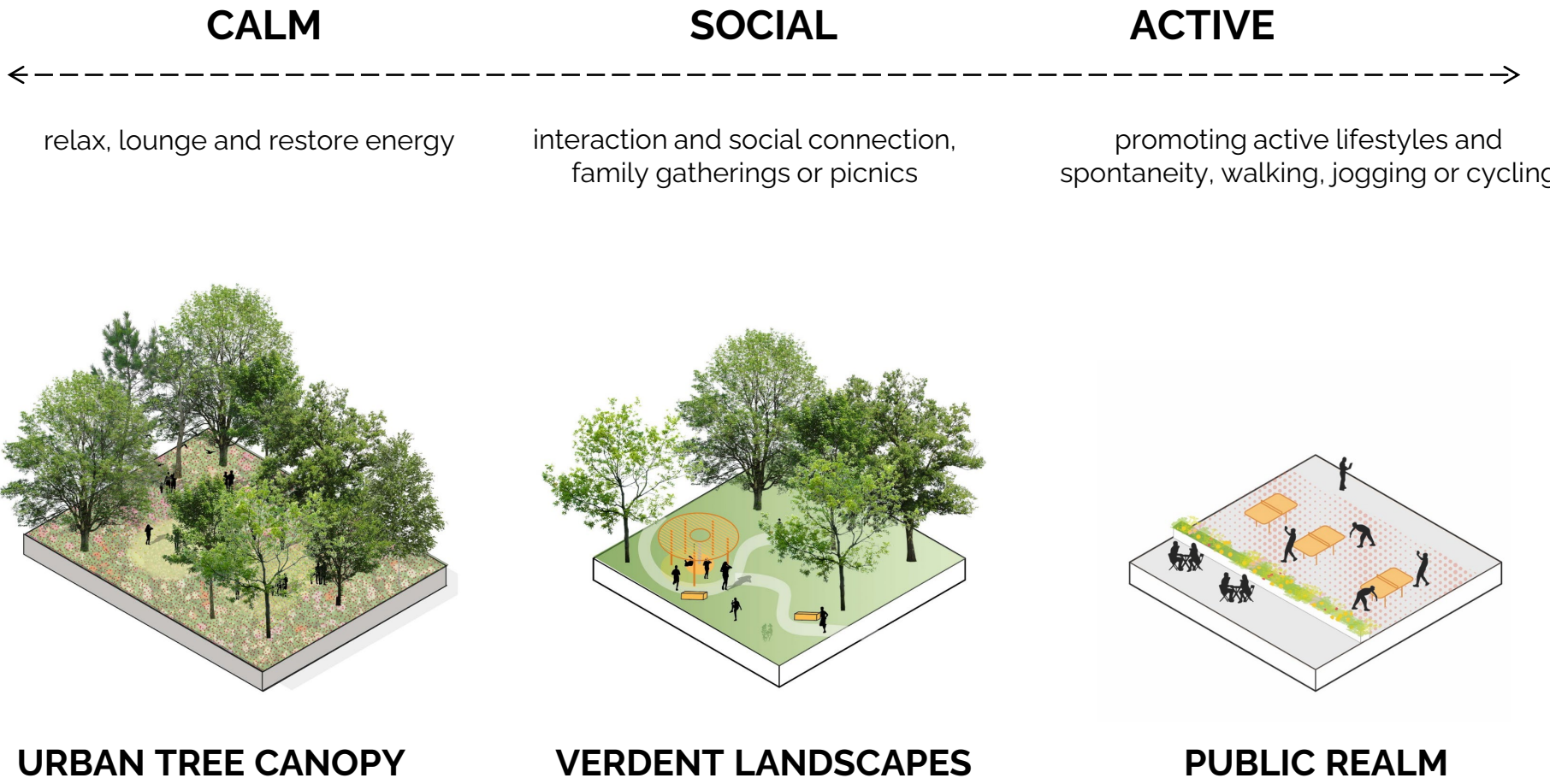
OPEN SPACE TYPOLOGIES

Buildings establish distinct spaces and define their intended functions

-  Innishmore Lawn Road Frontage
-  Mechterstadt Road Frontage
-  Public Podium
-  Play Area
-  Communal Open Space



LANDSCAPE SPACE PROGRAM



LEGEND

- EXISTING TREES RETAINED
- PROPOSED STREET TREE PLANTING
- PROPOSED NATIVE TREE PLANTING
- PROPOSED SMALL POLINATOR TREES
- PROPOSED NATIVE HEDGE PLANTING
- POLLINATOR FRIENDLY SHRUB AND GROUNDCOVER PLANTING - Refer to Planting Schedule
- PROPOSED POLLINATOR HEDGE PLANTING - Refer to Planting Schedule
- POLLINATOR FRIENDLY SHRUB AND GROUNDCOVER PLANTING - Refer to Planting Schedule
- NATIVE WILDFLOWER SEED MIX
- PUBLIC GRASS AREA
- PRIVATE GARDEN AREA
- BIKE SHELTER
- PROPOSED GREEN SEDUM ROOF - refer to engineers drawings for details
- PROPOSED SEDUM BLANKET ON A ROOF or equivalent approved
- PROPOSED CONCRETE PATH
- PROPOSED FEATURE PAVING TO PUBLIC AREAS
- GRASS CRETE
- PRIVATE AREAS
- PLAY AREA - Compacted gravel or equivalent
- ACCESS ROAD -Blacktop finish as per engineer's specifications
- NATURAL PLAY ELEMENTS - grass mounds, boulders, tree logs, etc
- FEATURE SEATING
- PROPOSED PICNIC TABLES
- BOULDERS
- STEPPING FLAGS IN GRASS
- PARKING
- LIGHTING COLUMN
- FEATURE TREE IN RAISED PLANTER
- PROPOSED ATTENUATION
- BOUNDARY LINE

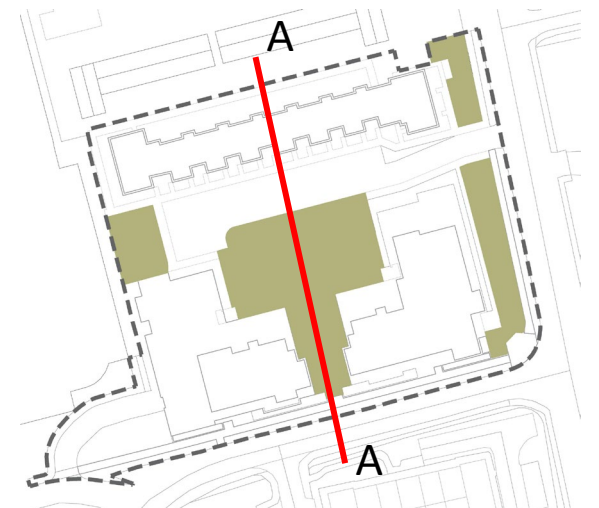
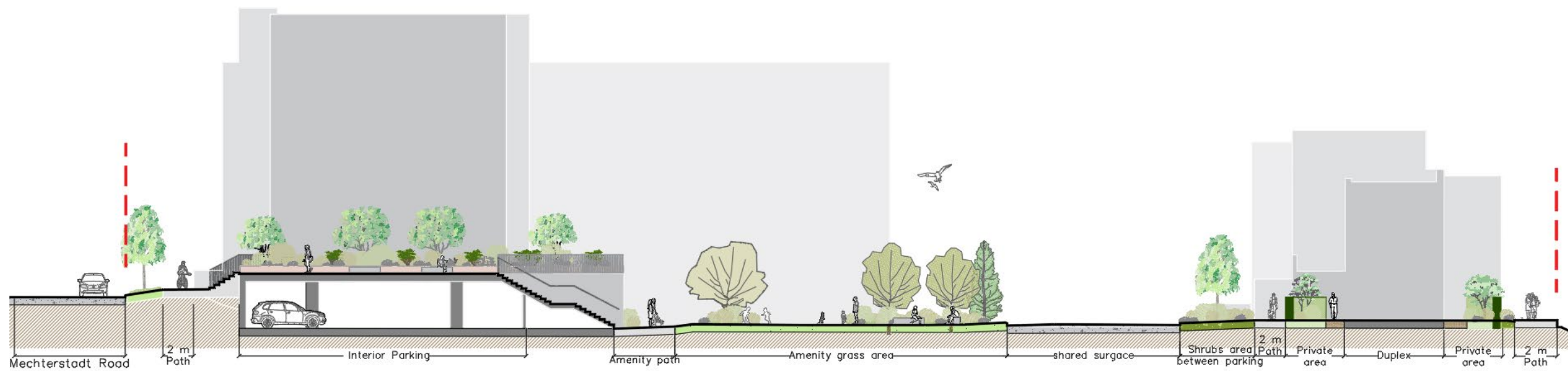
LANDSCAPE MASTERPLAN



The tree to be inspected post-construction and replaced if necessary.

Extracted from Landscape Masterplan drg.no.25108-2-101 - not to scale

LANDSCAPE SECTIONS



Extracted from Landscape Sections drg.no.25108-2-200 - not to scale

Transition between Open Spaces

Podium Landscape (Mechterstad Road)

The podium landscape adjacent to Mechterstad Road has been deliberately designed as an open and inviting frontage to the street, ensuring public permeability and visual accessibility. While the stepped level change and planting introduce a subtle sense of enclosure, these elements are intended to create comfort and spatial definition rather than restrict public access. This provides a transition that balances openness to the public realm with a sense of calm for residents.

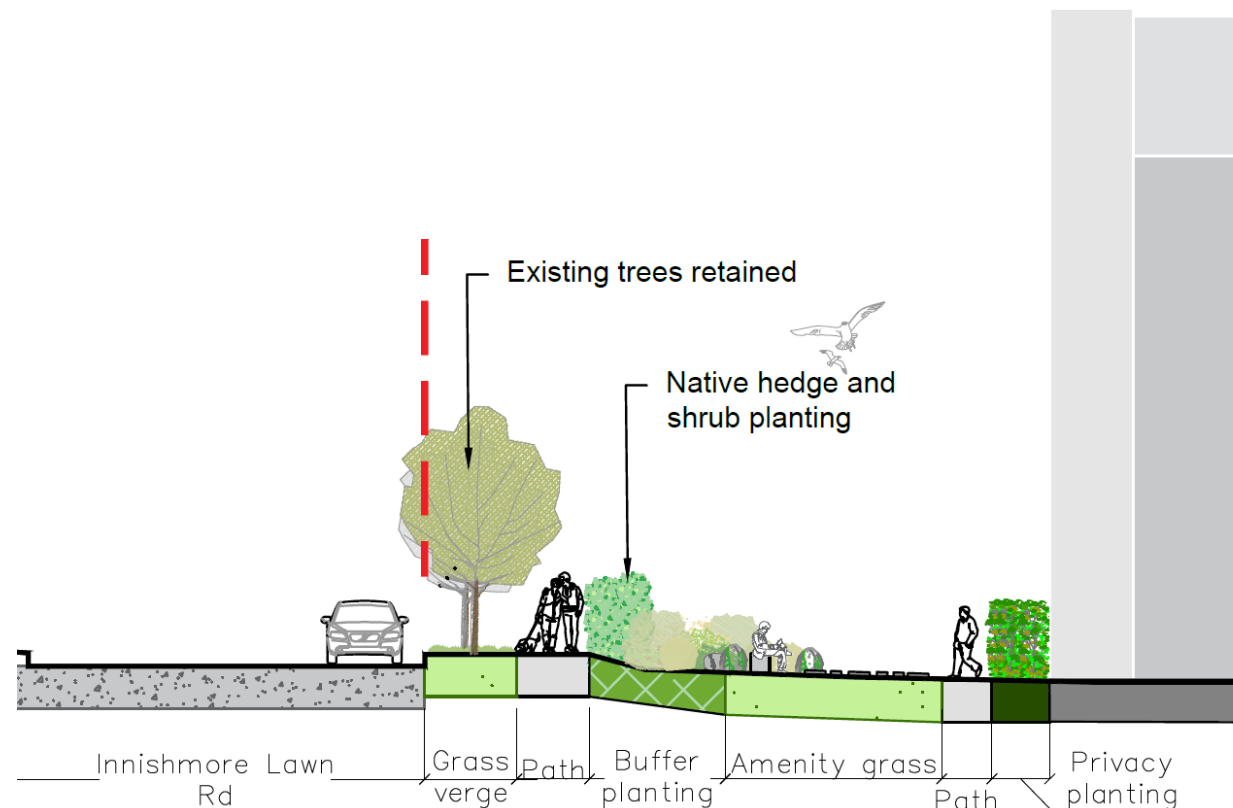
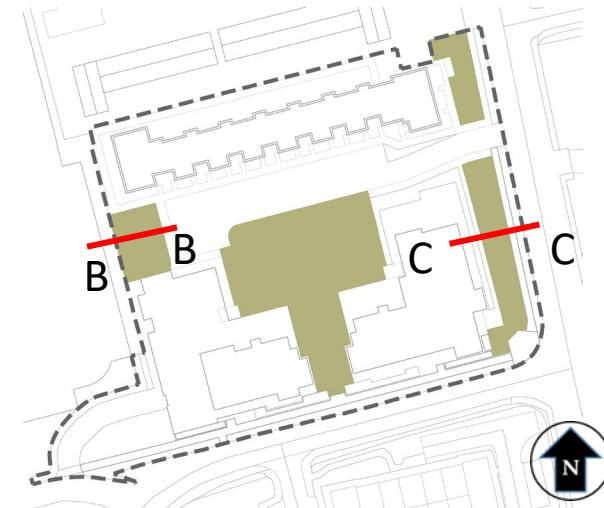
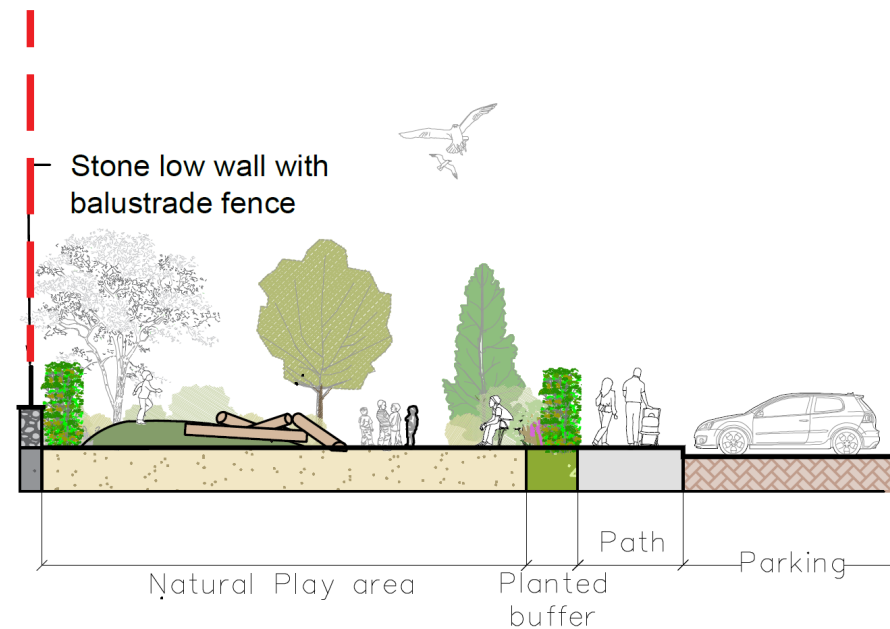
Central Communal Open Space

Access to the central open space is provided via a stair connection, with a 1.1m wall along the northern edge of the podium to establish a degree of separation. Importantly, this wall offers visual definition without compromising openness or accessibility for residents. The space is intentionally designated as communal, open to all residents of the development but not gated. Planting along the northern edge, including a hedge adjacent to the car parking, will provide a soft vegetated boundary that strengthens the sense of enclosure and privacy while still allowing a degree of permeability.

Relationship Between Central Space and Play Space

A strong and legible connection between the central open space and the smaller children's play space has been prioritised, recognising that these spaces will operate in tandem for families. The play area has been carefully designed to be safe and contained, with fencing to three sides and robust planting providing additional enclosure and screening.

LANDSCAPE SECTIONS





Illustrative Plan of Gateway / Intersection Space

Extracted from Landscape Masterplan
drg.no.25108-2-101 - not to scale



Example 1. Wooden and metal seating structure with and without plants



Example 2. Aesthetic pleasing natural rocks



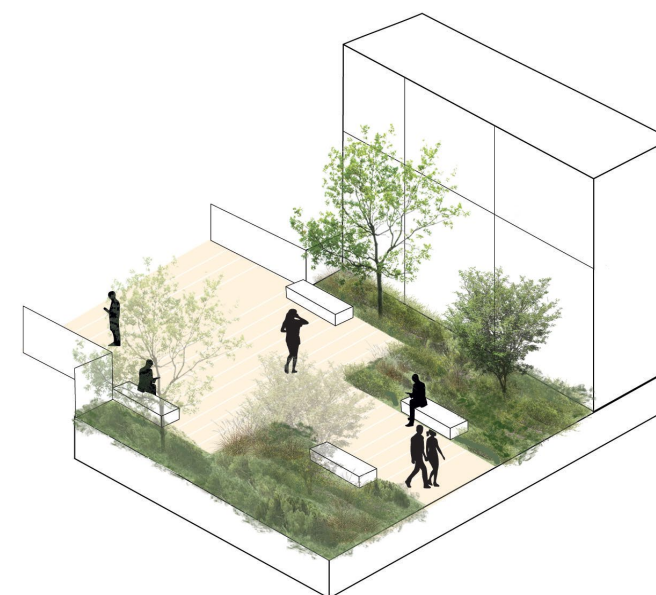
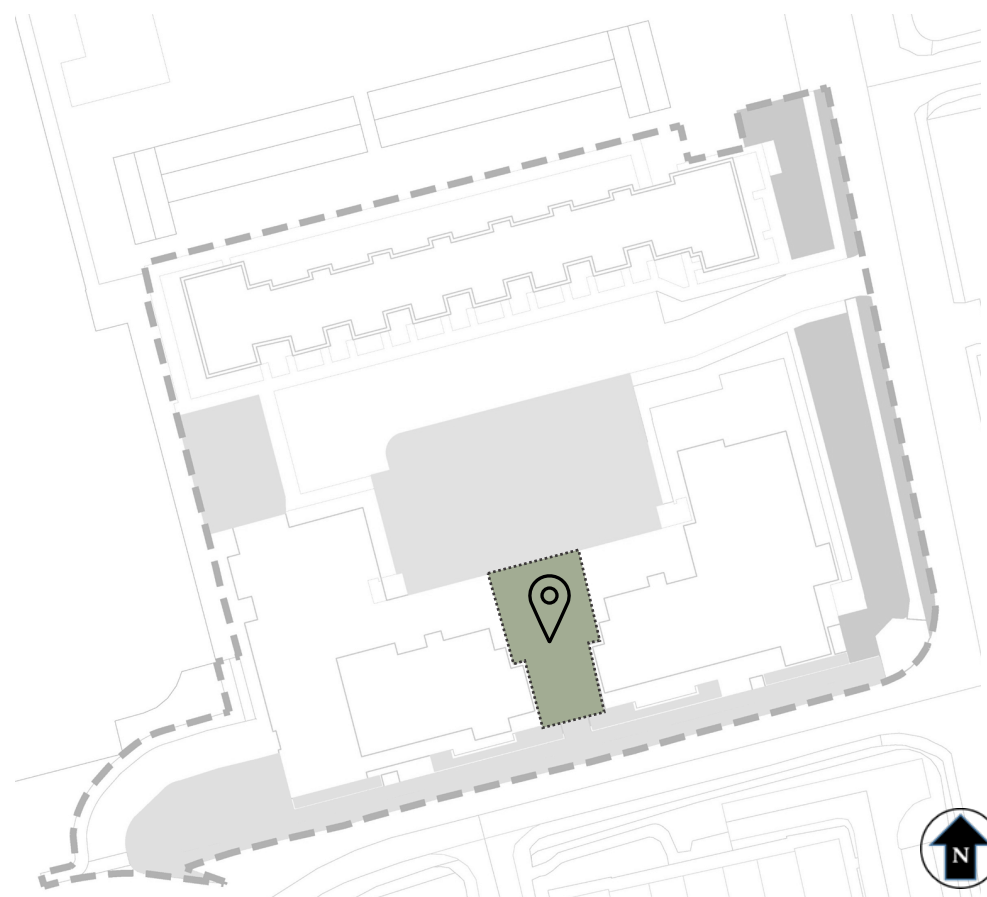
Example 4. Planting metal containers with seating



Example 3. Exposed aggregate concrete tree container

PODIUM GARDEN

An inclusive and versatile urban space is provided as a key pedestrian access point to the development's lower level, improving the permeability of the open space network and encouraging active use. The area is designed to support a range of functions, including outdoor seating and informal gathering, small-scale outdoor events, and biodiversity enhancement through seasonal planting, creating an attractive and flexible environment for users throughout the year.



PODIUM GARDEN

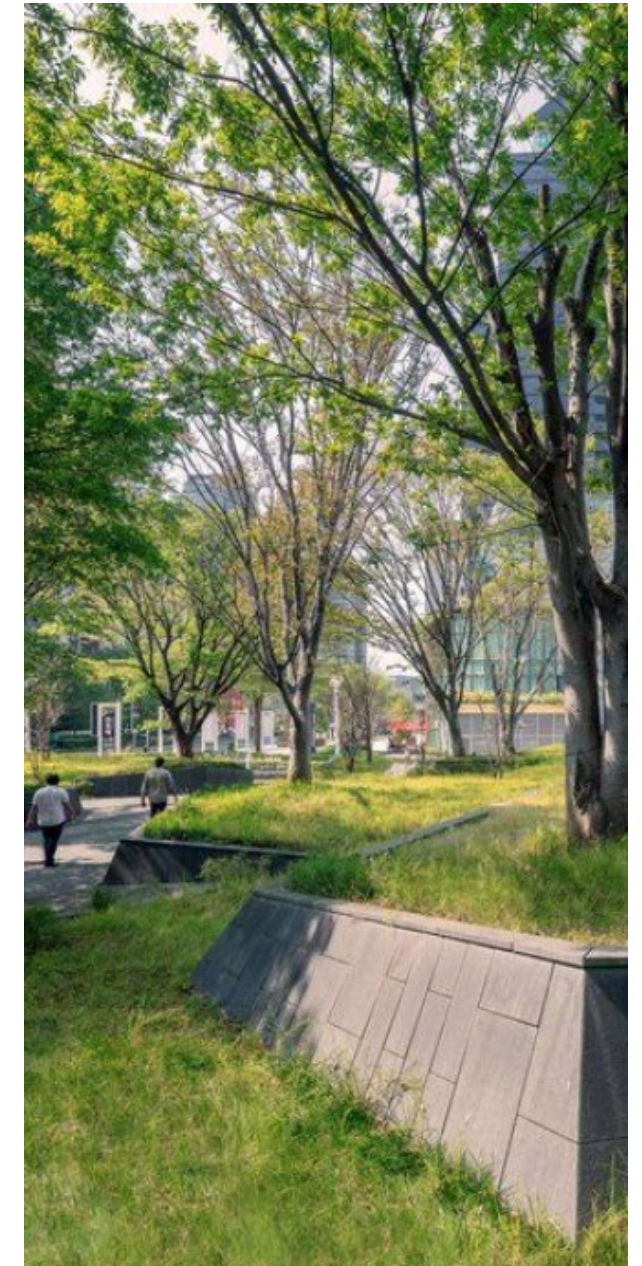
Green spaces that promote well-being, social bonds and activities, also with framing areas to resolve differences of levels



Walking path surrounded by shrub framing areas and trees



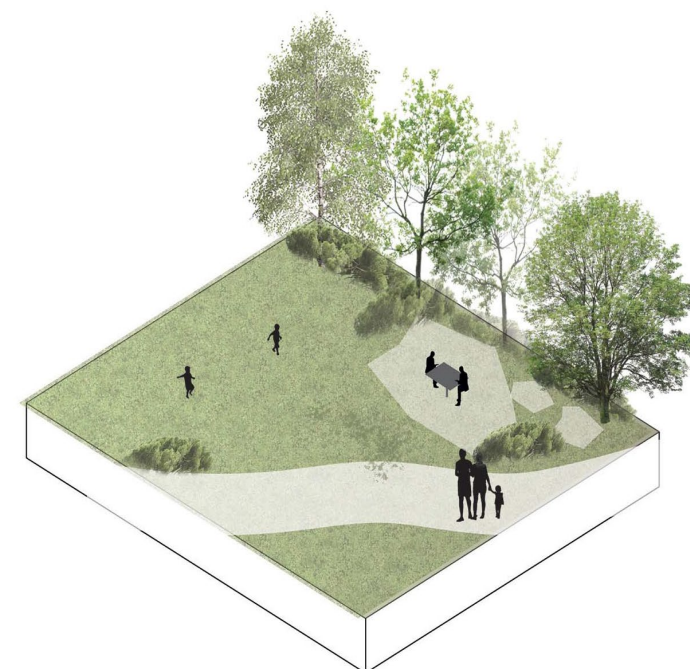
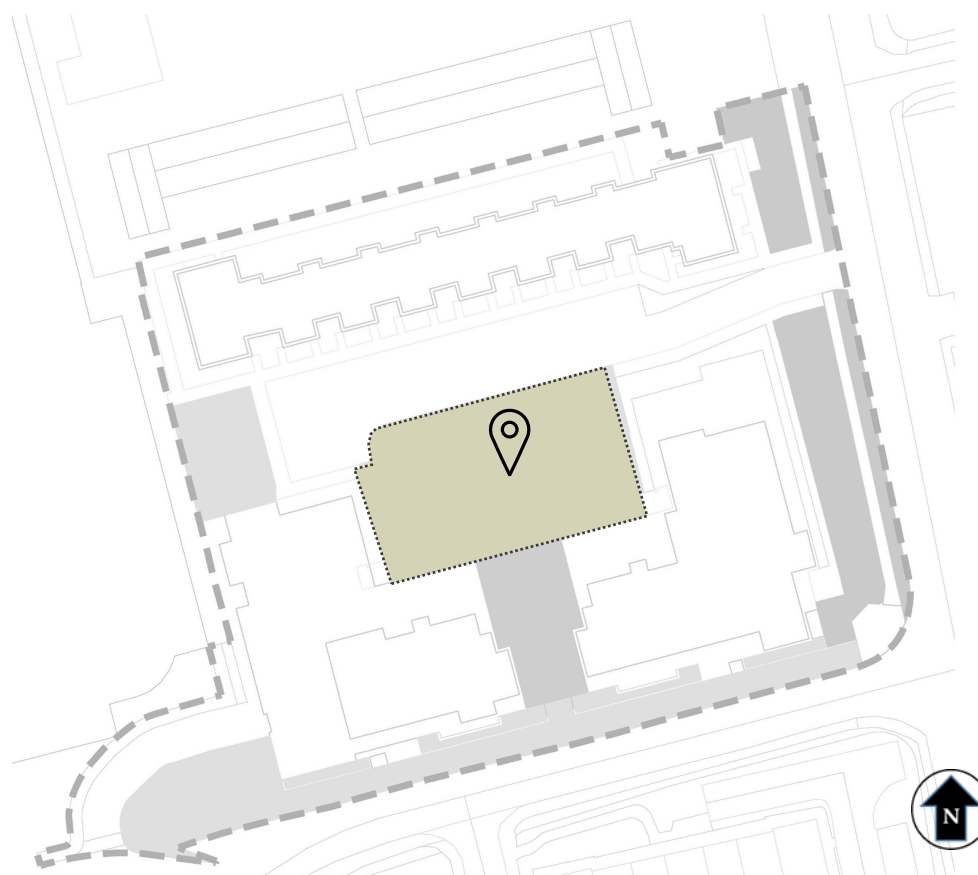
Designated seating areas along major pedestrian pathways to serve as gathering points for people.



Framing areas that solve level differences

COMMUNAL OPEN SPACE

Communal space is designed as welcoming green area that support everyday use and resident wellbeing. The landscape incorporates native tree and pollinator shrub planting to enhance biodiversity and create a natural setting, alongside informal play opportunities, seating areas, and spaces for relaxation and social interaction. These areas provide safe, overlooked environments that encourage outdoor activity, neighbourly interaction, and a strong sense of place.



COMMUNAL OPEN SPACE

Green spaces that promote physical health, social interaction and the quality of residents' lives



PUBLIC OPEN/SOCIAL SPACE

A smaller public space is designed with a strong focus on play and informal recreation. The area incorporates a playground with natural play elements set within rich landscape planting, alongside outdoor seating for parents and carers. The space provides a safe, welcoming environment that encourages active use, social interaction, and everyday enjoyment within a natural setting



PUBLIC OPEN/SOCIAL SPACE

A smaller more enclosed public space with an emphasis on play



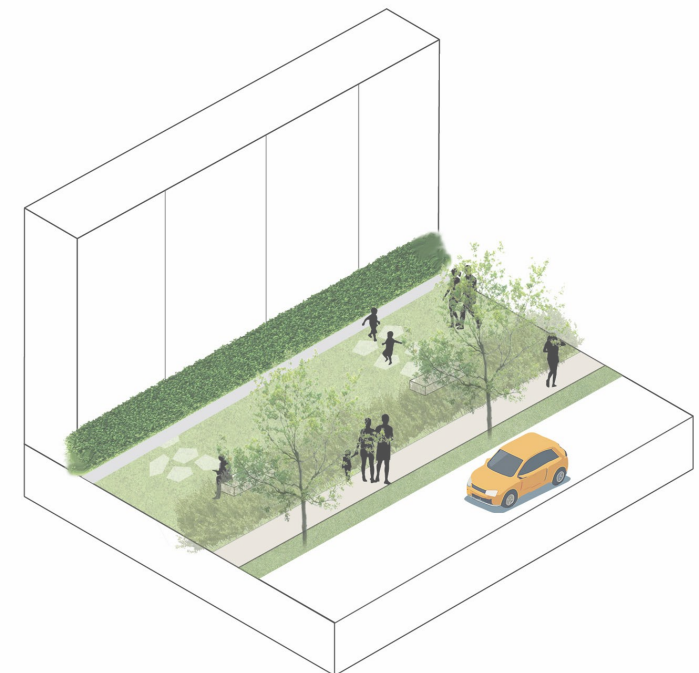
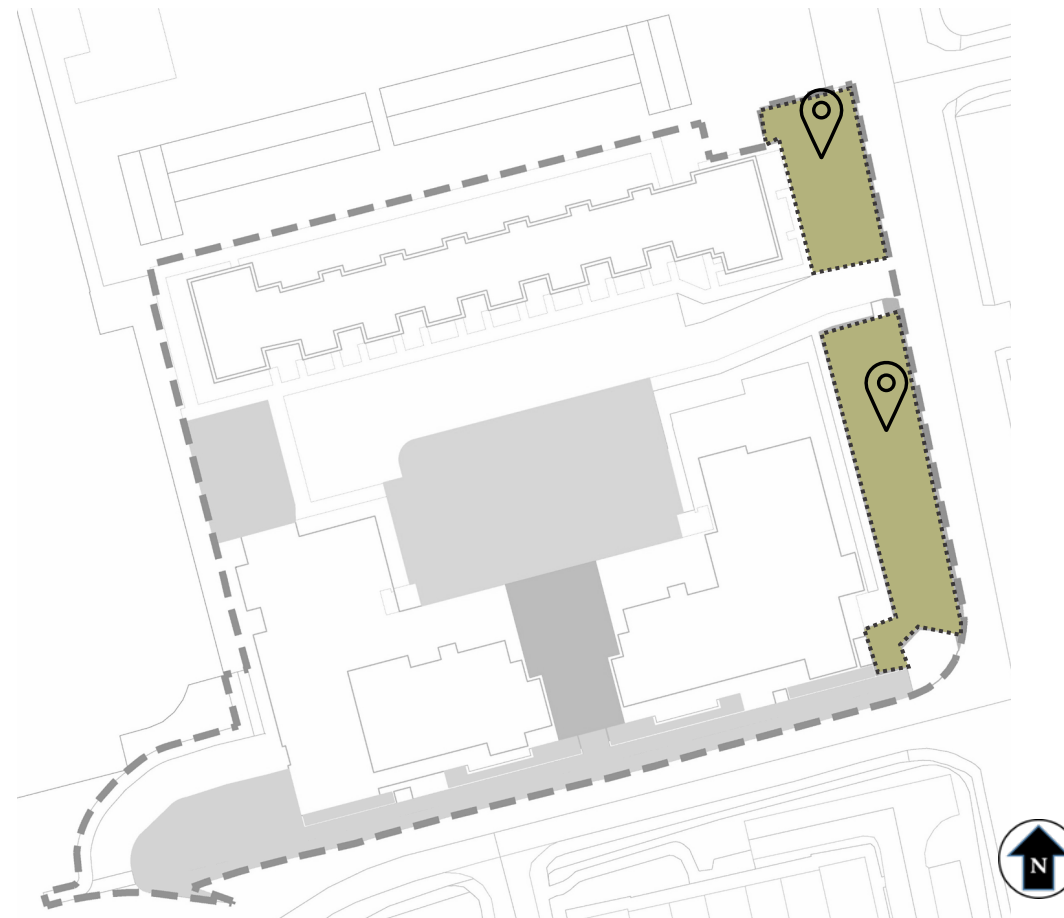
Natural play areas integrated in the outdoor green spaces of an urban development



Public open space with naturalistic concept with small mounds, that create a special interest of visiting and using these vegetated areas.

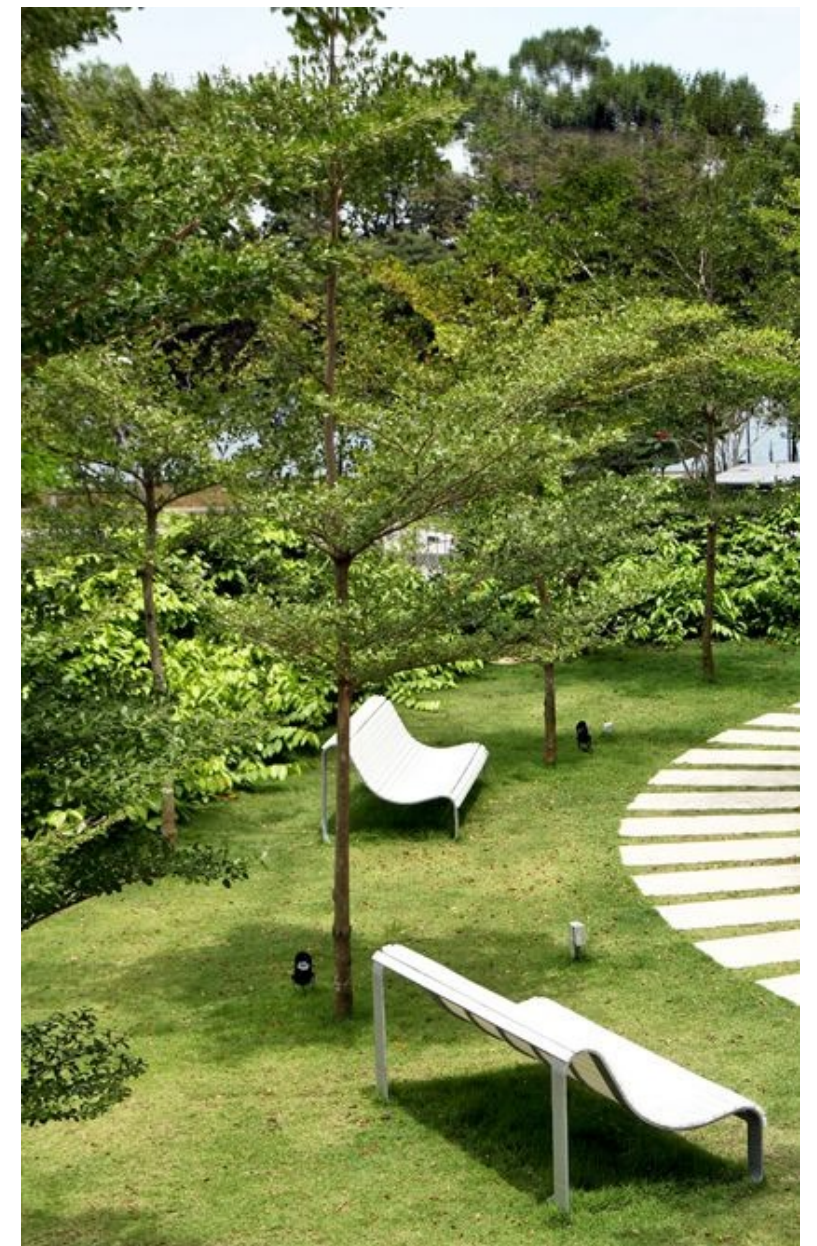
INNISHMORE LAWN ROAD FRONTAGE

This landscaped buffer space between the road and apartment building offers a sheltered pedestrian route and informal seating, screened by native planting. It provides a calm, usable amenity area that encourages everyday use and enhances residential comfort.



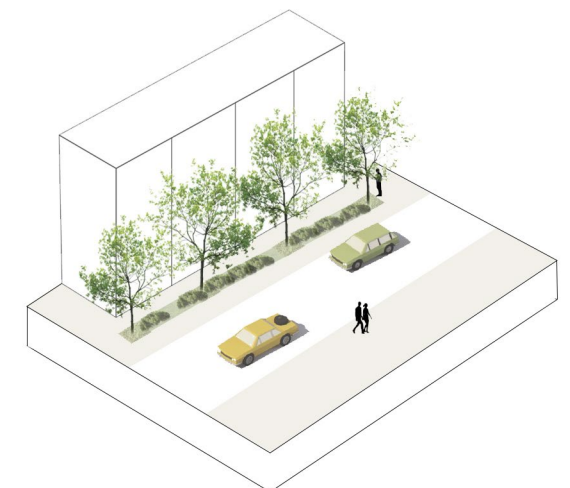
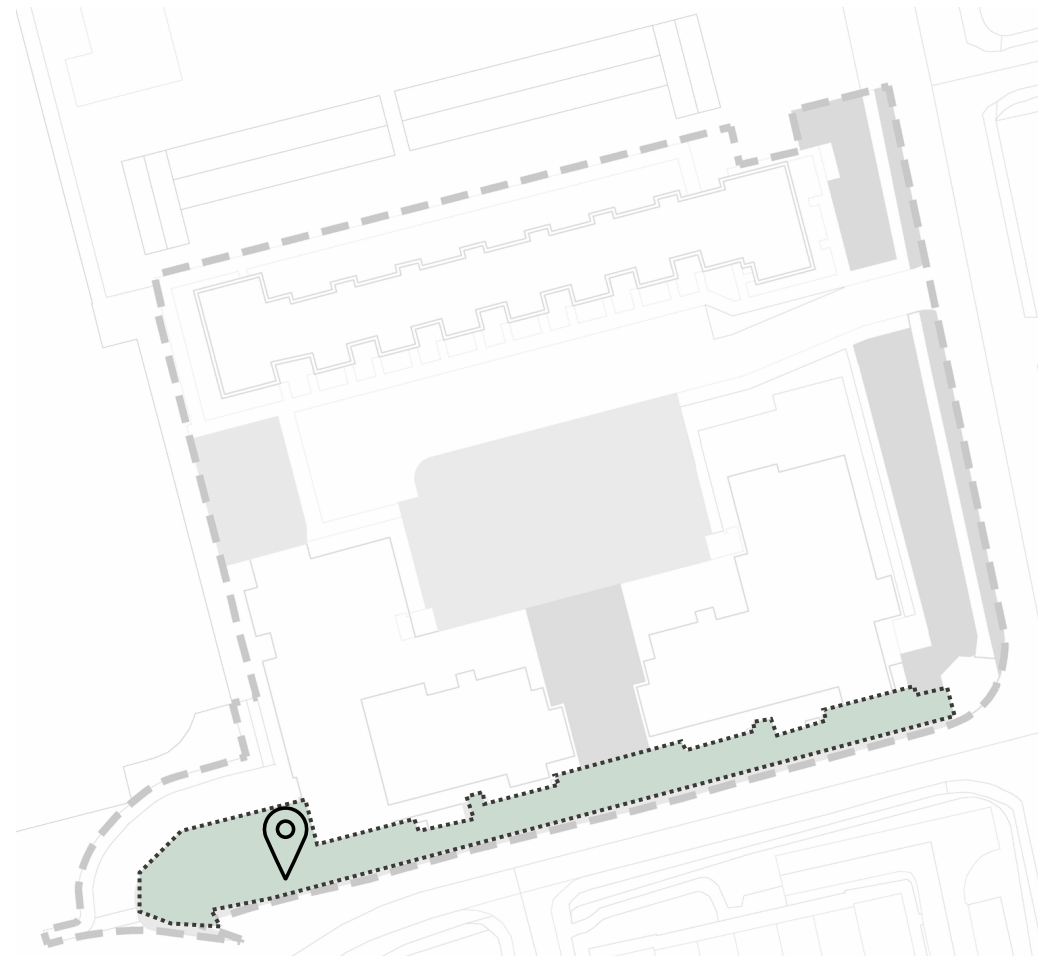
INNISHMORE LAWN ROAD FRONTAGE

Green spaces that promote well-being, social bonds, and an opportunity to rest and relax, also with framing areas to resolve differences of levels.



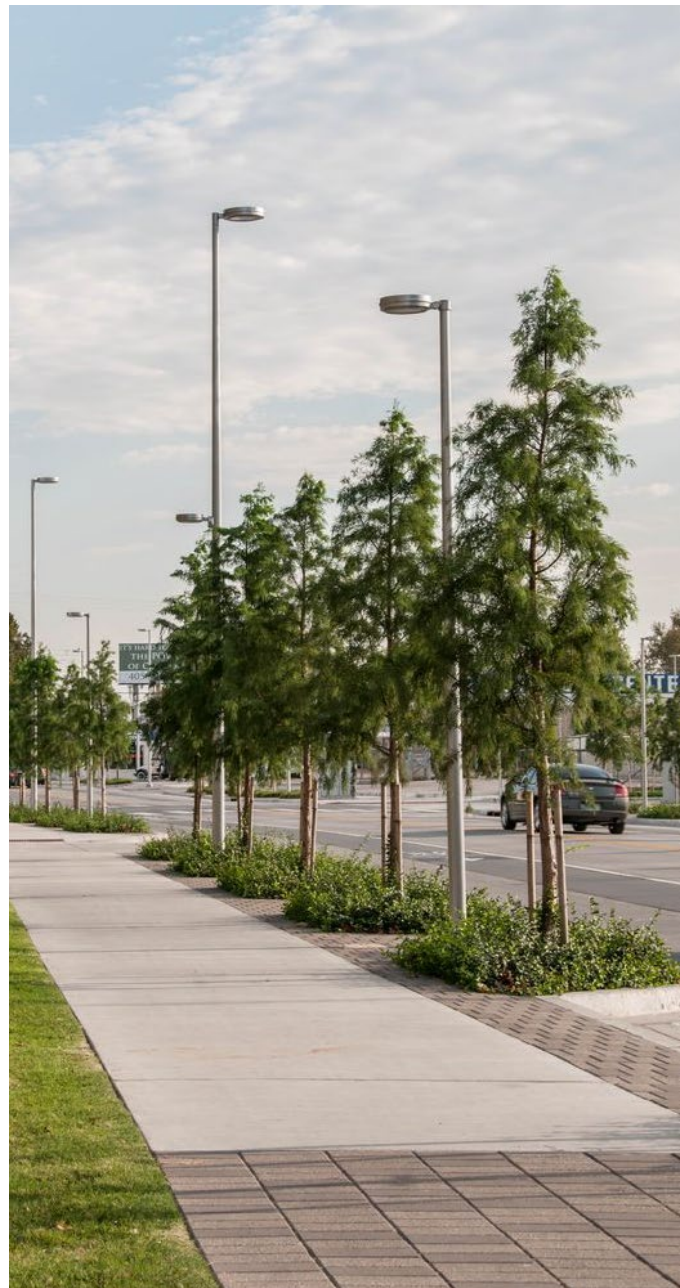
MECHTERSTADT ROAD FRONTAGE

Planted landscape buffer enhances the streetscape while providing a clear defensible space for residents of the apartment blocks. The planting improves visual amenity, offers screening from the road, and contributes to a comfortable and secure edge condition along the street frontage.

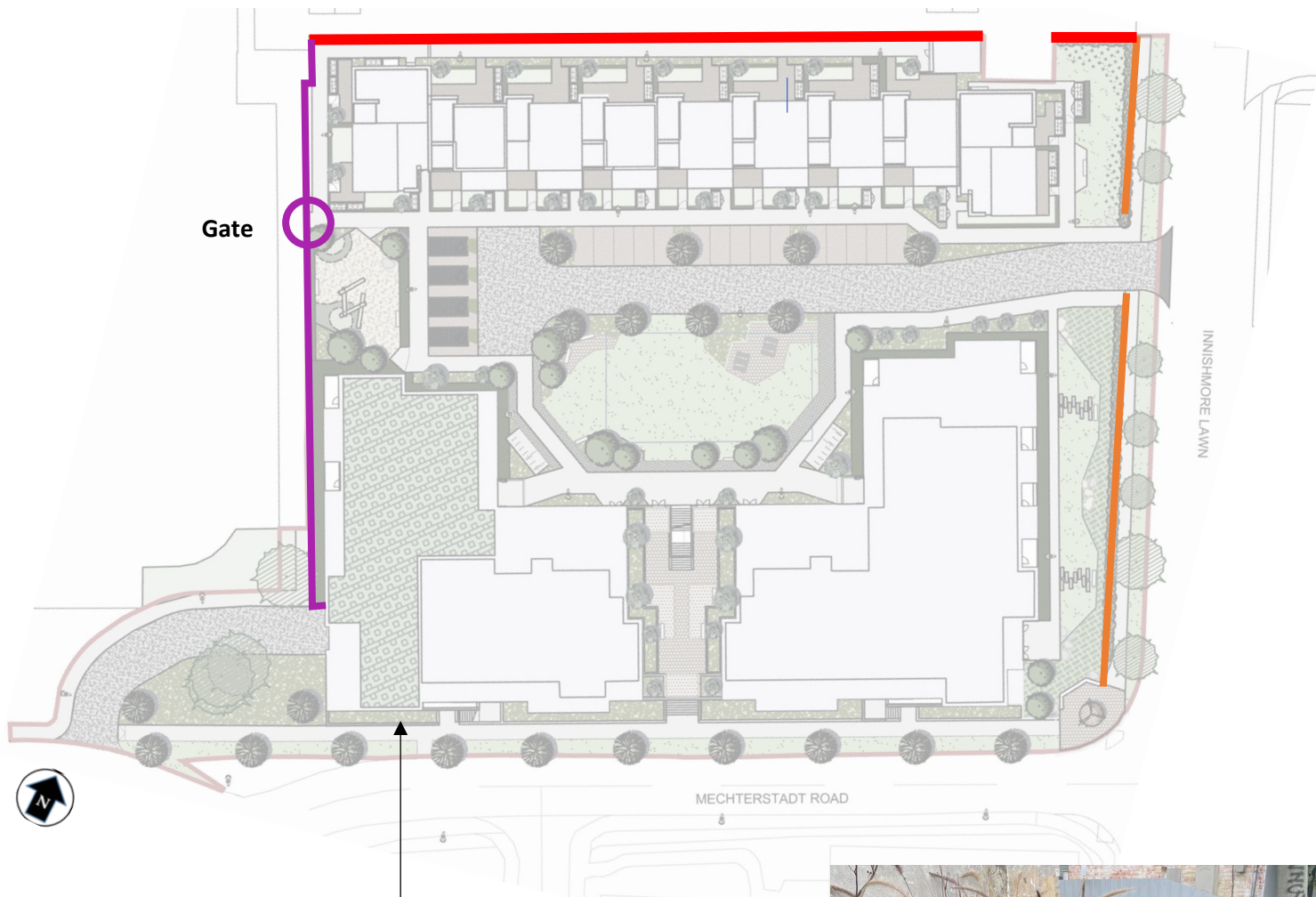


MECHTERSTADT ROAD FRONTAGE

The entrance road frontage offers a welcoming approach to the residential area, featuring a neat roadway bordered by landscaped greenery that enhances curb appeal and creates a pleasant, inviting atmosphere.



BOUNDARY TREATMENT



Gate

INNISHMORE LAWN

MECHTERSTADT ROAD

Planted buffer along Mechterstadt Road frontage
With Balustrade (See Architecture Drawings)



Stone / Brick wall with balustrade fence.



Decorative Front Fence

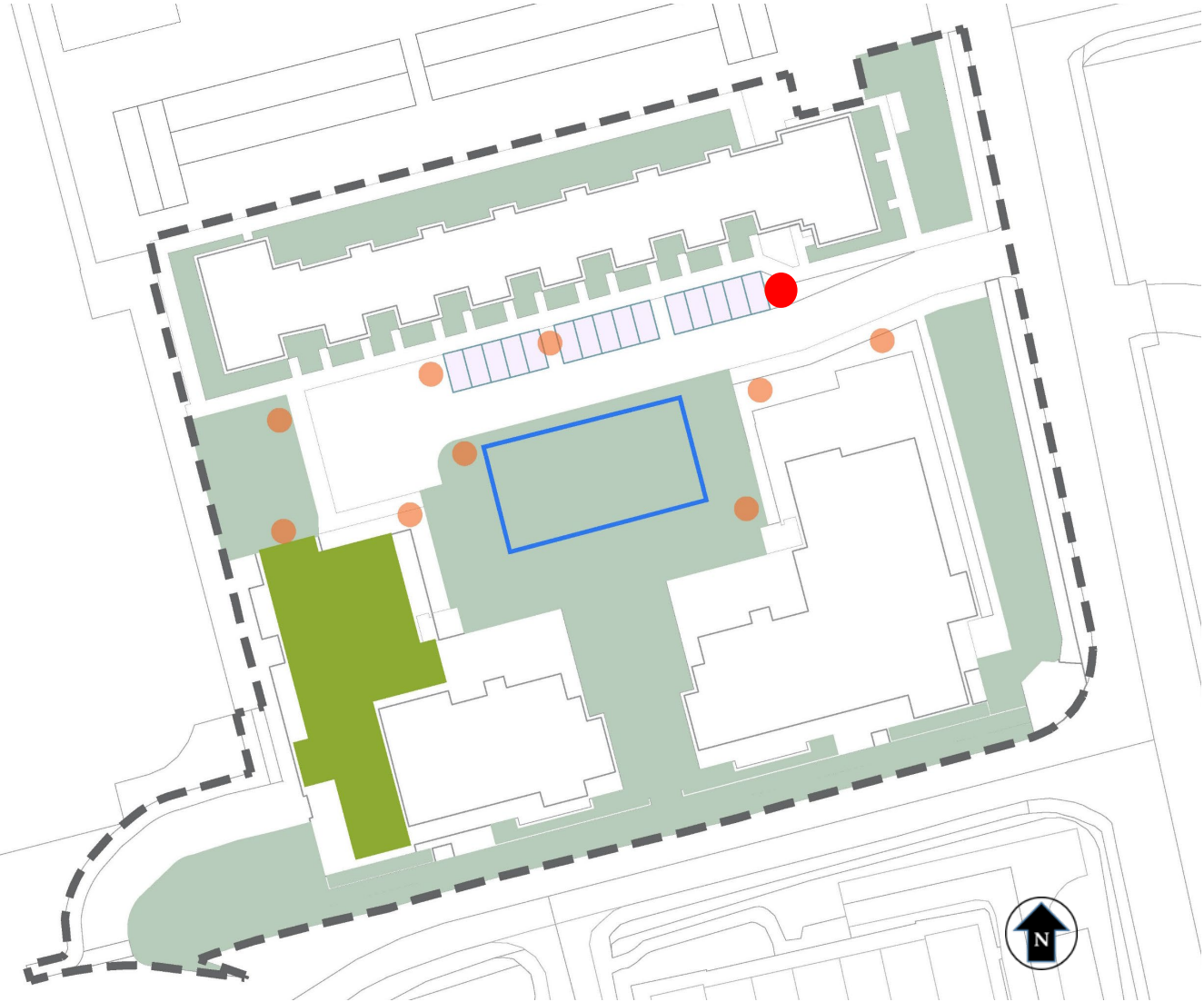


2m high Concrete block rendered wall to be constructed as part of the neighbouring Part 8 development

03.GREEN AND BLUE INFRASTRUCTURE STRATEGY

GREEN AND BLUE INFRASTRUCTURE STRATEGY

Sustainable Urban Drainage Systems (SuDS) are incorporated into the proposed residential development to manage surface water in a sustainable and visually attractive manner. The measures include bioretention areas, soakaway tree pits, green roofs, and permeable paving to promote natural infiltration in areas with suitable ground conditions. Where infiltration is not feasible, attenuation tanks are provided to control and regulate surface water runoff. In addition, green and blue roof systems are incorporated to enhance rainwater retention and support biodiversity. These SuDS components function as an integrated system to reduce flood risk, improve water quality, and ensure compliance with national sustainability and drainage guidance. Further technical details and supporting information for each element will be submitted at the planning application stage



Rain gardens & Swales



Green /Blue roofs that can store and collect water from the rain and slow runoff



Water retention areas

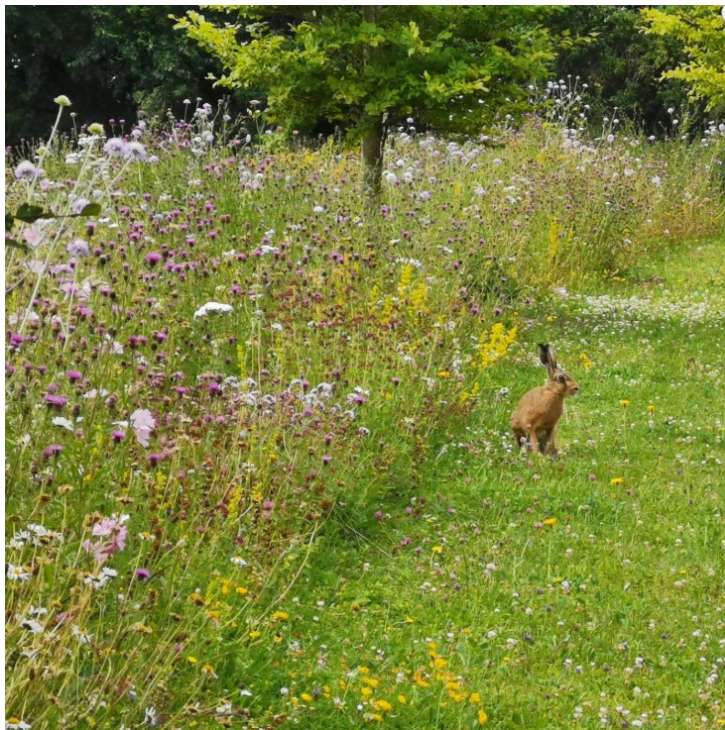
LEGEND	
Permeable soil	
SuDS Tree Pits	
SuDS Tree Pits (Bioretention Zone)	
Attenuation tank	
Green/Blue roof	
Permeable paving	

GREEN AND BLUE INFRASTRUCTURE: RECREATION & AMENITY WITH INTEGRATED NATURE-BASED SUDS -Precedent Examples



The integration of green and blue infrastructure will foster healthier, more resilient communities, reduce environmental impact, and contribute to a more engaging environment for all. Depressions in the open spaces for nature-based SuDS allow opportunity for integrated natural play and exploration outside flood events.

GREEN AND BLUE INFRASTRUCTURE : SUSTAINABILITY & BIODIVERSITY



Wildflower meadow- differential mowing regime on green spaces



Hedgehog highway



insect hotel, Bat box

The biodiversity potential of the site will be enhanced by the following measures:

- Significant specimen tree planting across the site including open space trees, street trees, pollinator trees
- Retention of existing boundary trees
- Pollinator-friendly planting through the site with emphasis on the use of native species.
- The promotion of wildflower meadow areas within open spaces by means of differential mowing regimes.
- Openings in garden fences to allow small mammals to pass through back gardens (e. g. hedgehog highway)
- Biodiversity areas encouraging meadow establishment and self seeding
- Bat boxes, bird boxes, insect hotels

Note: The emphasis will be on the use of native tree species while ensuring that selected trees are suitable for each location in respect of ultimate size and crown spread. Otherwise, the selection of any non-native shrubs and groundcover species will aim to maximise their contribution towards biodiversity on the site.



Specimen tree planting



GREEN AND BLUE INFRASTRUCTURE : TREES AND HEDGEROWS

STREET TREES



Prunus padus 'Fastigiata'



Sorbus aucuparia / Betula Pendula

The proposed design utilizes trees to provide structure throughout the site. These would all be native species, delivering significant biodiversity and pollinator benefits.

OPEN SPACE TREES



Alnus glutinosa



Corylus avellana

ORCHARD TREES



Malus sylvestris



Prunus species

HEDGEROW AND WOODLAND MIXES



Potential species mix: Hawthorn, Blackthorn, Guelder Rose, Holly

GREEN AND BLUE INFRASTRUCTURE : SHRUBS, GROUNDCOVER, AND PERENNIALS

SHRUBS



Skimmia japonica



Rosmarinus officinalis / *Hebe* species

The proposed design features shrub and groundcover planting to designate different areas, soften edges, and create inviting spaces. These would be pollinator friendly species, enhancing biodiversity throughout the site.



Lavandula angustifolia



Stachys byzantina

BULBS



Potential species mix: *Anemone nemorosa*, *Hyacinthoides non-scripta*, *Muscari 'Blue Spike'*, *Primula vulgaris*, *Viola riviniana*, *Crocus* sp., *Colchicum* spp, *Galanthus nivalis*

DIFFERENTIAL MOWING REGIME



A differential mowing regime can allow for both reduced maintenance needs, with less intensive and extensive mowing throughout the site, and enhanced biodiversity. By mowing fewer areas and mowing less often, native grasses and wildflowers can flower and set seed, creating more rich ecological processes throughout the site. This can also create attractive patterns within the landscape to further user interest.

INTRODUCTION

This document sets out the proposed maintenance and management plans for the establishment and ongoing maintenance of the landscape element of the proposed development. There will be a minimum 18 months defects period on all soft landscape works implemented. Thereafter the landscaping will be maintained by a management company in perpetuity by consecutive 12 months periods.

1.0 SOFT LANDSCAPE WORKS SPECIFICATIONS

1.1 Site Clearance Generally

- General: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
- Stones: Remove those with any dimension exceeding 25mm.
- Contamination: Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life. In accordance with current Health and safety legislation.
- Vegetation: remove all weed growth.
- Large roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.

1.2 Weed Control

Remove all noxious and undesirable weeds from the sit. Weeds shall include: Ragwort, Himalayan Balsam, Giant hogweed & Japanese knotweed, Thistle, Dock, Common Barberry, Male Wild Hop and Spring Wild Oat, or any other noxious species identified by the Department of Environment. For the removal of certain species such as Japanese Knotweed a method statement is to be prepared and submitted to the Department of Environment.

1.3 Standards

In preparing the landscaping, supplying plants and maintaining the landscaping the following standards are to be adhere to:

- | | |
|-------------------|---|
| • BS 3882 | Specification for topsoil and requirements for use |
| • BS 3936-1 to 10 | Specification for the supply of nursery stock |
| • NPS | National Plant Specification |
| • BS 3998 | Tree Works: Recommendations |
| • BS 4428 | Code of Practice for general Landscape Operations |
| • BS 5837 | Tree in relation to Construction |
| • BS 7370-1 to 5 | Grounds Maintenance |
| • BS 8545 | Trees: from nursery to independence in the landscape-recommendations |
| • BS 8601 | Specification for subsoil and required use |
| • BS EN 1722-9 | Fences Specification for mild steel - low carbon steel - fences with round or square verticals and flat horizontals |

The latest publications for each document are to be used.

1.4 Soil Conditions

- Soil for cultivating and planting: Moist, friable and do not plant if waterlogged.
- Frozen or snow covered soil: Give notice before planting. Provide additional root protection. Prevent planting pit sides and bases and backfill materials from freezing.

1.5 Climatic Conditions

- General: Carry out the work while soil and weather conditions are suitable.
- Strong winds: Do not plant.

1.6 Times of year for planting

- Deciduous trees and shrubs: Late October to early March.
- Evergreens/Conifers: October/November or Feb/ March.
- Container Grown plants: Any time of years.

1.7 Mechanical Tools

Restrictions: Do not use within 100mm of tree and plant stems.

1.8 Watering

- Quantity: Wet full depth of topsoil.
- Application: Even and without damaging or displacing plants or soil.
- Frequency: As necessary to ensure establishment and continued thriving of planting.

1.9 Preparation, Planting and Mulching Materials

General: Free from toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

1.10 Plants/ Trees - General

- Condition: Materially undamaged, sturdy, healthy and vigorous.
- Appearance: Of good shape and without elongated shoots.
- Hardiness: Grown in a suitable environment and hardened off.
- Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
- Budded or grafted plants: Bottom worked.
- Root system and condition: Balanced with branch system.
- Species: True to name.

1.11 Container Grown Plants/ Trees

- Growing medium: With adequate nutrients for plants to thrive until permanently planted.
- Plants: Centred in containers, firmed and well watered.
- Root growth: Substantially filling containers, but not root bound, and in a condition conducive to successful transplanting.
- Hardiness: Grown in the open for at least two months before being supplied.
- Containers: With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.

1.12 Labelling And Information

General: Provide each plant/ tree or group of plants/ trees of a single species or cultivar with supplier's labelling for delivery to site, showing:

- Full botanical name., Total number, Number of bundles, Part bundles.
- Supplier's name, Employer's name and project reference.
- Plant specification, in accordance with scheduled National Plant Specification categories and BS 3936.

1.13 Plant/ Tree Substitution

Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering. Submit alternatives, stating the price and difference from specified plants/ trees. Obtain approval before making any substitution.

1.14 Plant Handling, Storage Transport and Planting

- Standard: To HTA 'Handling and Establishing Landscape Plants'.
- Frost: Protect plants from frost.
- Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
- Planting: Upright or well balanced with best side to front.

1.15 Treatment of Tree Wounds

Cutting: Keep wounds as small as possible.

- Cut cleanly back to sound wood using sharp, clean tools.
- Leave branch collars. Do not cut flush with stem or trunk.
- Set cuts so that water will not collect on cut area.
- Fungicide/ Sealant: Do not apply unless instructed.

1.16 Protection of Existing Grass

- General: Protect areas affected by planting operations using boards/ tarpaulins.
- Excavated or imported material: Do not place directly on grass.

Duration: Minimum period.

1.17 Surplus Material

Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, pruning's and other arising's: Remove.

1.18 General Planting/Seeding

- Planting shall be carried out within the contract period but not during periods of frost, drought, cold drying winds or when the soil is waterlogged, or when the moisture of the soil exceeds field capacity.
- All containers and protective coverings including biodegradable coverings to root systems shall be removed prior to planting. Roots, except for emergent vegetation, shall be teased out from the root-ball, spread evenly and not twisted.
All plant material shall be planted upright or placed so as to be well-balanced. Extreme care is to be taken to avoid damage to the root system, stem and branches when planting. The plant shall be positioned such that after planting the original soil mark on the stem is at finished ground level.
- Following completion of planting, grass seeding and turf laying, the soil over the whole of the planted, seeded or turfed area shall be sufficiently watered to achieve its field capacity.

- On completion of planting, watering and mulching, all areas shall be left tidy and weed-free and shall be maintained in a tidy and weed-free state until completion of the works.
- For shrub and transplant pit planting, notch planting and ordinary planting, the plant positions shall be set at equal centres in order to obtain a natural dense cover when mature. For notch and pit planting plants shall be planted in parallel lines. Planting positions in each row shall be staggered with the previous row.
- Finely-broken backfill material shall be carefully spread around roots and root trainers of all plants and the plants given slight shake to ensure that all interstices/ gaps are filled with soil, which shall then be consolidated by heeling. Careful filling and heeling shall continue as necessary at 150mm layers.

1.18.1 Mulching

Newly planted shrub areas shall be mulched immediately after planting to a depth of 50mm or in accordance with the details indicated on the drawing. Mulch shall be coarse chipped tree bark, composted for 2-4 months. Particle size 25-75mm diameter. No Fines.

1.18.2 After Planting & Mulching

- Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
- Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.
- All areas shall be left tidy and weed-free and shall be maintained in a tidy and weed-free state until completion of the works.

1.19 Tree Planting

Attached in the appendix are typical tree planting details for this site.

1.19.1 Tree Pits

- Sizes: at least 300mm greater than rootball in all directions.
- Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
- Pit bottoms: With slightly raised centre. Break up to a depth of 100mm.
- Pit sides: Scarify.

1.19.2 Semi-Mature Trees

- Standard: Prepare roots and transplant to BS 8545.
- Planting shall be carried out by positioning the tree in the centre of the pit closely against the tree stake and spreading the tree roots to their fullest extent.
- Backfilling material: Previously prepared mixture of topsoil excavated from pit and additional compost as required.
- Immediately following planting, trees with stakes shall be secured with tree ties. Tree ties shall be fixed so that movement of the tree shall not cause damage or abrasion to the bark, top tie to be 50mm below top stake.

1.19.3 Staking Generally

Softwood, peeled chestnut, larch or pine, straight, free from projections and large or edge knots and with pointed lower end. Adjustable rubber ties to be fixed to all trees and at the correct size for the tree.

1.19.4 Mulch Circles/Squares

All existing trees/newly planted trees within open grass areas or grass verges shall have 50mm depth mulch circle/square of a maximum 1m diameter or as allowed by verge width.

1.20 Shrub Planting

- All shrubs are to be pit planted. General pit dimensions are to be wide enough to accommodate roots when fully spread and 75mm deeper than root system.
- Break up base of pit to a depth of 150 mm, incorporating soil ameliorant/ conditioner at 50 g/m².
- Pits to be backfilled with previously excavated material. Backfilling to be done in layers of 150mm depth; at each stage the filling to be firmly consolidated.
- Soil ameliorants can be premixed with the soil applied or mixed in during planting.
- Soil ameliorants to consist of an approved compost at 10L per m²; and 150g/m² of 10:10:10 NPK slow release fertilizer, or as approved.
- All shrub areas to be finished, with 75mm of medium grade bark mulch.

1.21 Hedgerow Planting

- Preparation: Dig trench to 500mm width for single staggered row, ensuing pit base is broken up 100mm deeper than plant rootball.
- Ameliorants: Compost at 10lt/m² and 10:10:10 NPK slow release fertiliser at 150g/m².
- Planting: Mix in soil ameliorants with excavated topsoil, or if there is poor topsoil then mix in with imported new topsoil. Firm down topsoil lightly in layers of 150mm by treading.
- Additional Requirements: If there is no existing fencing or barrier, install a protective fence to stop people walking through it until hedge is established. If there is livestock adjoining hedge install a stockproof fence or electrical fence 1m from hedge line until hedge is established.
- Prior to new growth cut the hedge back by 300mm to encourage new growth from base.

1.23 Removing Trees and Shrubs

- Identification: Clearly mark trees and hedges to be removed.
- Work near retained trees: Where canopies overlap, take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained.

1.24 Failures of Planting

- Defects due to materials or workmanship not in accordance with the Contract: Plants/ trees/ shrubs that have failed to thrive.
 - Exclusions: Theft or malicious damage after completion.
 - Rectification: Replace with equivalent plants/ trees/ shrubs.
- Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater.

1.25 Green Roofs

Due care is to be taken when planting in gardens to ensure no damage occurs to the waterproof membranes. All planting is to be laid over a green-roof system that complies with EEuropean Federation of Green Roof Associations, (EFB), or equivalent, and in accordance with the drawings provided.

1.26 Grass Seeding

1.26.1 Herbicide Application

- Type: Suitable for suppressing perennial weeds and existing grass.
- Glyphosate and other controlled chemical pesticides will not be used under any circumstances.
- Suitable herbicide use to the instruction of a registered professional user.
- Timing: Allow fallow period before cultivation.
- Duration: As manufacturer's recommendation.

1.26.2 Seedbed cleaning before sowing

Operations: Herbicides as per registered professional user only.

1.26.3 Cultivation

- Compacted topsoil: Break up to full depth.
- Soil ameliorant/ Conditioner/ Fertilizer are to be used to boost late seeding only. Type to be used is to be agreed with the administering body depending on the time of year and the condition of the soil.
- Tilth: Reduce topsoil to a tilth suitable for blade grading.
 - Depth: 75 mm.
 - Particle size (maximum): 20 mm.
- Material brought to the surface: Remove stones and clay balls larger than 50 mm in any dimension, roots, tufts of grass, rubbish and debris.

1.26.4 Topsoiling

- Areas to be reinstated shall be top-soiled to a min. depth of 150mm.
- Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
- General: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
 - Corrosive, explosive or flammable;
 - Hazardous to human or animal life;
 - Detrimental to healthy plant growth.

1.26.5 Grading

- General appearance to be achieved: A fine graded finish to bring the ground to a uniform and even grade at the correct finished levels with smooth, flowing contours.
- Topsoil condition: Reasonably dry and workable.
- Contours: Smooth and flowing, with falls for adequate drainage.
- Hollows and ridges: Not permitted.
- Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc.
- Blade grading: May be used to adjust topsoil levels provided depth of topsoil is nowhere less than 150mm.
- Give notice: If required levels cannot be achieved by movement of existing soil.

1.26.6 Fertilizer for Seeded Areas

- Types: Apply both:
 - Superphosphate with a minimum of 18% water-soluble phosphoric acid.
 - A sulphate of ammonia with a minimum of 20% nitrogen.
- Application: Before final cultivation and three to five days before seeding/turfing.
- Coverage: Spread evenly, each type at 70 g/m², in transverse directions.

1.26.7 Final Cultivation

- Timing: After grading and fertilizing.
- Seed bed: Reduce to fine, firm tilth with good crumb structure.
- Depth: 50-100mm.
- Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted.
- Remove surface stones/earth clods exceeding:
 - Pastoral areas: 50mm.
 - Fine lawn areas: 10mm.
- Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

1.26.8 Grass Seed

- All seeds shall carry appropriate certificates.
- Seed shall be purchased fresh for each growing season and seed purchased impervious sowing seasons is not to be used.
- Seed shall be stored under non-transparent wrapping, off the ground, in a dry, shaded place, in well ventilated conditions under cover and shall be protected from vermin and contamination until required for use.
- No seeding shall take place until the seedbed is completed. All seeding shall be carried out within the sowing season.

1.26.9 Sowing

- General: Establish good seed contact with the root zone.
- Method: To suit soil type, proposed usage, location and weather conditions during and after sowing.
- Distribution: 2 equal sowings at right angles to each other.
- Protection: fence off areas with suitable fencing to stop people or animals from trampling new growth.

1.26.10 Grass sowing season

Grass seed generally: April to June or August to November.

1.27 Cleanliness

After completion of all works remove all debris and waste material from site.

- Soil and arisings: Remove from hard surfaces and grassed areas.
- General: Leave the works in a clean tidy condition at completion and after any maintenance operations.

2.0 MAINTENANCE

The maintenance programme will be organised on the basis of specific **performance standards** which must be met by the contractor at all times and will be the basis on which this contract will be assessed. Along with these performance standards a monthly report sheet shall be filled out and returned each month. Details of the performance standards are outlined below.

Remove all noxious and undesirable weeds from the sit. Weeds shall include: Ragwort, Himalayan Balsam, Giant hogweed & Japanese knotweed, Thistle, Dock, Common Barberry, Male Wild Hop and Spring Wild Oat, or any other noxious species identified by the Department of Environment. For the removal of certain species such as Japanese Knotweed a method statement is to be prepared and submitted to the Department of Environment.

Performance Standards and Maintenance Operations

2.1 Grassed Areas

2.1.1 Fine-Cut Grass Areas

Fine cut grass areas shall achieve an even cover of vegetation of uniform height and colour comprising predominantly of grass species. No more than 5% of the grass areas shall contain dicotyledonous (dicots) weeds, except clover. Grass cutting shall not be carried out during excessively wet or waterlogged conditions. Contractor to inform administrative authority if conditions are unsuitable.

Fine-Cut Mowing

Where practical fine grass areas shall be cut using a cylinder mower, otherwise a rotary mower shall be used. All grass clippings shall be collected and removed off-site after each cut.

Lawn grass cutting shall be carried out every 10-14 days during the growing season, (throughout the period of March to October), but will need to be adjusted according to season's weather conditions. Grass shall be kept at a maximum height of 50mm and minimum height of 35mm. A minimum of 24 cuts shall be carried out annually.

Weed Control

Lawn grass areas shall be treated using an approved selective Glyphosate-free herbicide according to a registered professional user and manufacturer's instructions. Areas of invasive and noxious species in the lawn or areas, shall be mechanically removed or spot sprayed by a registered professional user.

Fertilizer

Approved fertilizer shall be applied 2no. times per year to lawn areas if required due to poor grass growth / establishment or yellowing. Spring fertilizer application of NPK ratio 9:7:7 shall be applied in May of each year and Autumn/Winter fertiliser of NPK ratio 3:12:12 shall be applied in October of each year to all fine cut grass areas.

2.1.2 Amenity Grass Areas

Amenity grass areas shall achieve an even cover of vegetation of uniform height and colour comprising predominantly of grass species. Unless otherwise agreed with the landscape architect no more than 15% of the grass areas shall contain dicotyledonous (dicots) weeds, except clover. Grass cutting shall not be carried out during excessively wet or waterlogged conditions. Contractor to inform administrative authority if conditions are unsuitable.

Amenity Grass Mowing

Where practical grass areas shall be cut using a cylinder mower, otherwise a rotary mower shall be used. Unless excessive or unsightly, or likely to cause a nuisance or damage to the sward, arisings shall be spread evenly over sward areas collected.

Lawn grass cutting shall be carried out every 10-14 days during the growing season, (throughout the period of March to October), but will need to be adjusted according to season's weather conditions. Grass shall be kept at a maximum height of 75mm and minimum height of 35mm. A minimum of 24 cuts shall be carried out annually.

Weed Control

Areas of invasive and noxious species in lawns, shall be mechanically removed. Glyphosate and other chemical pesticides will not be used under any circumstances unless otherwise instructed by a registered professional user. Weed infestations shall be reviewed in the context of the aesthetic and amenity functioning of the grass and if necessary controlled or eradicated.

Fertilizer

Approved fertilizer shall be applied 2no. times per year to lawn areas if required due to poor grass growth / establishment or yellowing. Spring fertilizer application of NPK ratio 9:7:7 shall be applied in May of each year and Autumn/Winter fertiliser of NPK ratio 3:12:12 shall be applied in October of each year to all fine cut grass areas.

2.1.3 Wildflower areas

Prepare the area before each cut remove all litter and debris.

Height and frequency of cut in first growing season:

- Time of first cut: August or September, only after the first flowering.
- Time of second cut: Another cut will be required prior to flowering in the following April or May to 'strim' away the taller annual growth.
- Height of first cut: 100mm.
- Frequency of subsequent cutting (max.): every 24 weeks.
- Trimming: All edges.
- Arisings: Remove.

If using mulching mowers rake the soil very well at the end of the season to remove all the dead debris. Any cut that produces substantial clippings should have the clippings removed and composted.

Height and frequency of cut in second growing season:

- Time of cut: Year: Year 2 = 2 cuts in spring and autumn. For mown strip along cycle paths 5 cuts per year.
- Height of cut: 150mm.
- Any cut that produces substantial clippings should have the clippings removed and composted.
- Trimming: All edges.
- Arisings: Remove.

2.1.4 Edging and Trimming

Grass edges along pathways, planting borders, roadways, trees, lampposts, signs and any other obstacle shall be kept neat and tidy at all times.

Between the months of March and October inclusive edging shall be carried out to all areas of grass abutting isolated/ specimen trees or shrub borders or mulch circles. These areas shall be maintained using a half moon tool or similar to maintain straight or curved defined line and shall be carried out a minimum of 2 - 3 times per year.

Mowing strips against permanent obstacles shall be a max. width of 150mm and shall be maintained using a hand strimmer. Large areas of desiccated/ burnt off grass are not permitted. Strimming shall be carried out a min. of 12 times per year.

Grass clipping and all arisings shall be swept up and removed off site.

2.1.5 Spring Bulbs in Grassed Areas

Only cut grassed areas populated by spring bulbs after the leaves of the bulbs have died down and/or yellowed completely. Initially reduce height by one third, followed by a 2-3 stage further reduction over two weeks to achieve desired grass height.

2.1.6 Failed areas

Areas of grass which fail or are damaged or worn shall be reinstated by re-turfing or re-seeding in accordance with the original specification.

2.2 Shrub Planting

Shrub areas shall be kept litter and weed free, particularly of perennial weeds. Healthy growth shall be maintained to cover as much as possible of the planting area and allowing the individual plants to achieve as near as possible their natural form. With the exception of hedges, boxing or pruning to shapes is prohibited. Plants shall be contained with designed planting areas and pruned to avoid obstructing pathways or sightlines. Climbers are to be pruned and tied into trellises as required, with two main inspections annually to check trellis system is intact and anchor points are secure.

2.3 Pruning

In general pruning shall be done only to enhance natural growth. Dead, damaged and diseased portions of the plant will be removed. All cuts shall be flush and clean, leaving no stubs or tearing of bark. All major pruning shall be done following flowering or during plant's dormant season. Emergency or minor pruning shall be done when needed.

Pruning shall be carried out to maintain proper size in relationship to adjacent plantings and intended function. Remedial attention and repair to shrubs shall be provided as appropriate by season or in response to incidental damage.

Groundcover plants shall be pruned as required to restrain perimeter growth to within planting bed areas where adjacent to walks and curbs. Tip prune selected branches of low growing shrub or groundcover masses to maintain even overall heights and promote fullness.

Certain plants, such as Cornus spp. will require heavy annual pruning in order to maintain healthy colourful stems and healthy leaves. All arising's from pruning shall be removed of site.

2.4 Weed Control

Planting beds shall be maintained relatively weed free (no more than 10% of weed cover at maximum) by hand weeding or spot spraying any emergent weeds during the growing season with Glyphosate-free herbicide or approved equivalent. Saplings shall be removed from all planting areas on emergence or immediately after to prevent establishment.

Specific weed control operations shall be carried out a min of 9no. times per year, however it will be the contractor's duty to control weeds by hand weeding or other accepted method if weed cover exceeds 10% of the planting area.

2.5 Mulching

Shrub beds shall contain a min. depth of 50mm bark mulch throughout the year. Contractor to top-up as 2 times per year or as appropriate to maintain depth. Mulch is not required in areas where plant foliage completely covers the soil surface, such that the soil is not visible through the foliage. The contractor shall spot treat to remove emergent weeds as specified above but do not cultivate or incorporate the mulch into the soil. Any mulch outside of designated planting areas shall be returned to the planter on a weekly basis.

Mulch shall be uniform in colour and appearance, and free of leaves, sticks, or trash. Mulch may be chipped or shredded wood, bark. When replacing existing mulch, use a mulch product that is similar in appearance to that already at the site.

2.6 Tree Planting Care

Trees shall be maintained in a healthy, vigorous growing condition with a well-shaped framework for future growth.

2.7 New Tree Planting

Spring and autumn of each year during the maintenance period the trees, double-stakes, rabbit guards and ties shall be checked and adjusted, the soil firmed, any dead wood removed back to healthy tissue and mulch adjusted to original levels. Any broken stakes or ties evident throughout the maintenance period shall be replaced.

A 1m-diameter mulch circle/square shall be maintained at the base of each tree located in open grass areas or grass verges. Top up bark mulch to 75mm where required and make good any mulch mats.

During the first growing season all standard trees / semi-mature trees shall be watered at least five times during the growing season - in April, May, June, July and August unless otherwise directed by the Landscape Architect. During the second growing season trees will be kept well watered, particularly during June, July and August.

The edge of the mulch circle shall be maintained in a neat and tidy condition as above.

The surface of all planting pits is to be kept free of weeds during the maintenance period by mechanical weeding of annual weeds and perennial weeds - to be carried out on three visits during the growing season.

2.8. Tree Stakes and Ties

Check tree stakes and ties on each maintenance visit. Repair, strengthen and adjust (loosen / tighten) to ensure optimum functioning and trees not being damaged by poor fixings. If trees no longer require stake / tie remove. Prior to handover, check all tree stakes and ties and remove those no longer required.

2.9 Woodland/Scrub Area Management

Woodland areas specified shall be maintained in a healthy, vigorous condition and free from litter and noxious weeds throughout the year.

Certain areas of woodland may require thinning over the 5-year period. These areas shall be thinned by no more than 10%, removing only the weaker tree specimens. Thinning shall be carried out as directed onsite by administrative authority.

Weed control around trees bases and in shrub areas will be achieved by mulches and mulch top ups only. Contractor to ensure that no damage is caused to trees by herbicide application.

Areas of natural scrub as indicated on the maintenance plans shall be contained by trimming back once per year. The contractor shall control noxious weeds. This shall be carried out 2no. times per annum.

All clearance operations within woodland and scrub areas shall be carried out outside of the bird-nesting season to preserve the bird life in the area. This season extends from the 1st March to 31st August.

2.10 Native hedgerow Areas

Maintain hedges to ensure they remain healthy, neat, and free from litter and noxious weeds throughout the year. Regularly observe the hedge's health, growth, and any signs of distress throughout the year.

Trim every three years in rotation around the site leaving soe areas undisturbed for wildlife. Trim only from the 1st of September to the last day of February to avoid disturbing nesting birds. Trimming in late winter allows full use of the hedgerow's food resources.

Before cutting, inspect the hedgerow to identify trees and other wildlife features, as well as obstacles or hazards. Cut hedgerows in a triangular shaped profile with a bushy structure for maximum protection from wind., providing a variety of heights.

Weed control around will be achieved by mulches and mulch top ups only. Contractor to ensure that no damage is caused to trees by herbicide application.

Control competing vegetation by mechanical weeding. to prevent smothering and to allow lower branches develop, giving a dense base.

2.11 Soft Landscaped SuDS Areas

Regular Inspections:

- Inspect infiltration surfaces: Check for silting and ponding, record the de-watering time of the facility, and assess standing water levels in the underdrain (if applicable) to determine if maintenance is necessary.

Typical Frequency: Quarterly.

- Check operation of underdrains: Inspect flows after rain.

Typical Frequency: Annually.

- Assess plants: Look for signs of disease, poor growth, or invasive species, and replace plants as necessary.

Typical Frequency: Quarterly.

- Inspect inlets and outlets: Ensure there are no blockages.

Typical Frequency: Quarterly.

Regular Maintenance:

- Remove litter, surface debris, and weeds: Ensure the area remains clean and tidy.

Typical Frequency: Quarterly (or more frequently for tidiness or aesthetic purposes).

- Replace plants: Maintain planting density by replacing plants as needed.

Typical Frequency: As required.

- Remove sediment, litter, and debris build-up: Focus on areas around inlets or forebays.

Typical Frequency: Quarterly or biannually.

Occasional Maintenance:

- Infill holes or address scouring in the filter medium: Improve erosion protection if necessary.

Typical Frequency: As required (review biannually or after significant storm events).

- Repair minor silt accumulations: Rake away surface mulch, scarify the surface medium, and replace the mulch.

Typical Frequency: As required (review biannually or after significant storm events).

Remedial Actions:

•Remove and replace soils and vegetation: Address as needed, typically expected after more than 20 years.

Typical Frequency: As required but likely greater than 20 years.

2.12 Litter Clearance/Pick-up

The contractor shall maintain all areas free from litter. This shall mean the removal of all extraneous litter, rubbish and any other debris from all areas, which will include grass areas, planted areas, carparks, footpaths as well as woodlands and tree canopies.

Notwithstanding the above it is expected that the contractor and his staff shall take sufficient pride in the appearance of the site and that they would pick up all visible litter during every site visit.

In addition to removal of litter from footpaths, planted areas, etc., the contractor shall make provision for the immediate (within 1 days of notification) arrangement for collection and removal of all extraneous matter which has been deliberately been deposited on site by persons known or unknown (fly-tipping).

2.13 Replacements

Any tree, hedge or shrub that is removed, uprooted, destroyed or becomes seriously damaged, defective, diseased, or dead shall be replaced in the same location with another plant of the same species and size as that originally planted within the defect period after planting. All such replacements shall be carried out in the first available planting season after the requirement to do so is recognised.

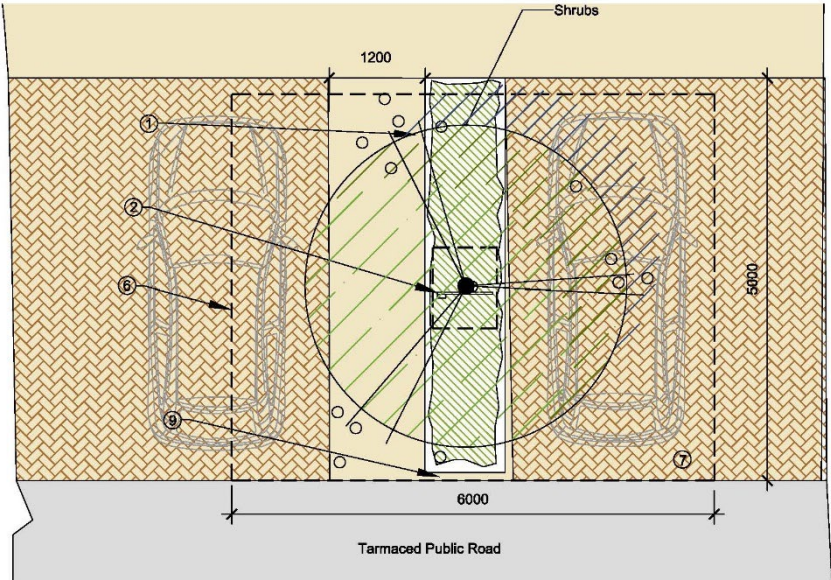
2.14 Blue /Green Roof Maintenance

With the right conditions, green roofs are self-regulating but a minimum of two inspections per year should be conducted. A typical maintenance programme includes:

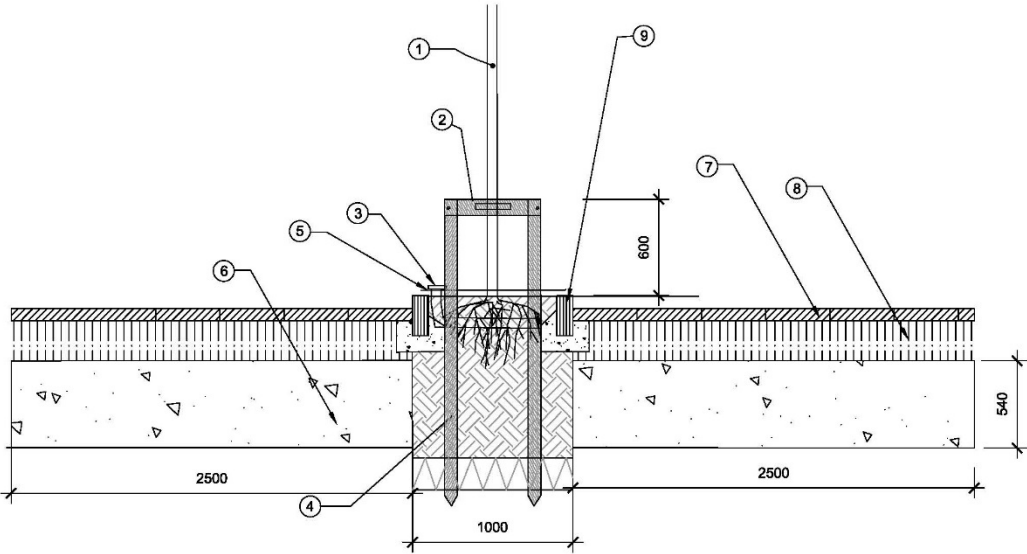
- Roof Evaluation - a comprehensive review of your green roof to determine what remedial work, if any, needs to be done.
- Removal of Unwanted Items - Over time a green roof can become congested with leaves, debris, and other unwanted vegetation, which can be removed as part of the service.
- Inspection - of roof outlets and removal of any encroaching vegetation to enable water to flow freely through rainwater pipes.
- Application of fertiliser - To help restore your green roof to its best, an organic slow-release granular fertiliser if required will encourage growth.

Green Roofs are only proposed in private curtilage. As a result, its maintenance will be the responsibility of a management company and not that of the council. Safe working procedures in relation to the maintenance of these roofs post construction will be detailed in Risk Assessments and associated method statements and included in any as-built package and hand over documentation at taking in charge stage.

Tree planting detail



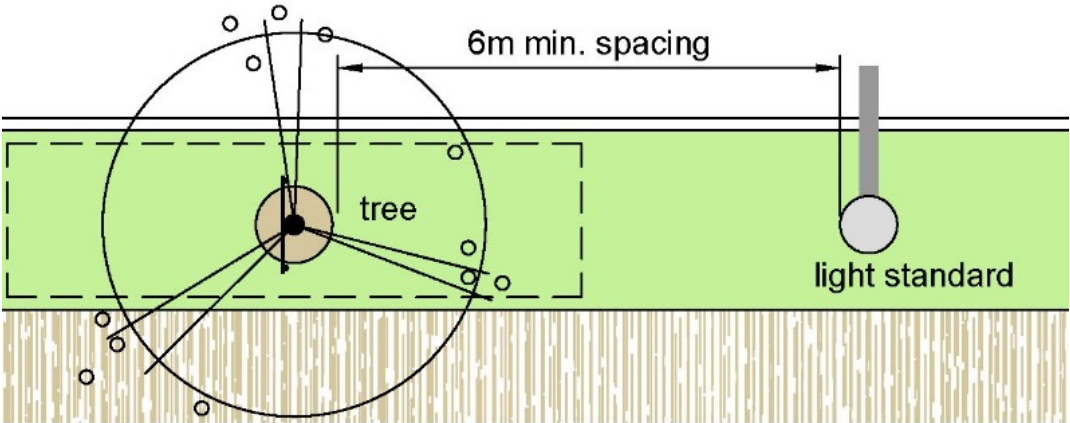
VO1: Street Tree Pit Detail – Plan



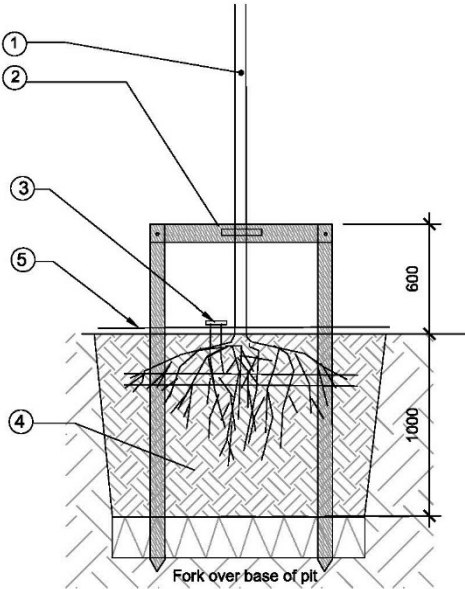
VO1: Street Tree Pit Detail – Section

NOTES

1. Tree to have a clear stem height of 2000mm.
2. 2no. 75mm diameter stakes pressure treated driven 1300mm below ground 600mm above ground with specified biodegradable adjustable tie affixed to tree & stake.
3. 6cm diameter perforated flexible plastic drainage pipe positioned as shown over rootball with one end open to surface to facilitate watering.
4. Pits to be size 80x125x100cm. Remove the full depth of topsoil and set aside for reuse. Scarify sides, break up base of pit to a depth of 200mm and incorporate a soil ameliorant into base. Back fill pit with topsoil mixed with soil ameliorants in 150mm firmed-in layers. All planting to receive a minimum of 25lt water per m2 immediately after planting.
5. 50mm bark mulch in 80cm dia circle to base of trunk.
6. 16m3 area root zone under permeable paving for parking bays, made up of 50% 70-100mm aggregate sizes, 30% multipurpose topsoil and 20% grit (20mm down).
7. Permeable parking paving to engineers spec.
8. Sub base to parking to engineers spec.
9. Kerb to engineers spec.



VO2: Street Tree Pit and Light Standard Detail – Plan



NOTES

1. To have a clear stem height of 2000mm.
2. 2no. 75mm diameter stakes pressure treated driven 1300mm below ground 600mm above ground with specified biodegradable adjustable tie affixed to tree & stake.
3. 6cm diameter perforated flexible plastic drainage pipe positioned as shown over rootball with one end open to surface to facilitate watering.
4. Pits to be size 1x1x1mm or 15cm wider than rootball which ever is greater. Remove the full depth of topsoil and set aside for reuse. Scarify sides, break up base of pit to a depth of 200mm and incorporate a soil ameliorant into base. Back fill pit with topsoil mixed with soil ameliorants in 150mm firmed-in layers. All planting to receive a minimum of 25lt water per m2 immediately after planting.
5. 50mm bark mulch in 80cm dia circle to base of trunk.

VO2: Street Tree Pit Detail – Section

3.0 Maintenance Programme

This programme is a guideline only and times of operations may vary on approval by landscape architect.

ONGOING REQUIREMENTS:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Lawn grass cutting (Min 18 cuts)		*	**	**	***	***	***	***	***	**	**	
Edging to lawn grass areas				*			*			*		
Rough Grass							*					
Wildflower areas				*					*			
Fertiliser application to lawn grass areas.					*		*			*		
Hedge pruning/cutting					*			*			*	
Shrubs pruning and feeding				*		*			*	*	*	*
Native hedgerow cutting (no more than every other year)		*										
Weed control of hedge and shrub planting areas		*	*	*	*	*	*	*	*	*	*	
Tree pruning											*	*
Removal of tree stakes (3-5yr)				*								
Mulch top-up to tree circles/ squares						*				*		
Weed control to tree mulch circles				*			*				*	
Weed control to shrubs & hedgerow				*			*				*	
Watering of new trees (or after 3 weeks of no rain)				*	*	*	*	*				
Trimming of scrub areas												*
Weed control of scrub areas				*					*			
Weed control to footpaths, cycle paths.				*								
Litter Clearance/pick up	***	***	***	***	***	***	***	***	***	***	***	***