Kilternan,
Dún Laoghaire-Rathdown

Ronan Mac Diarmada & Associates



Landscape Architects & Consultants

LANDSCAPE RATIONALE

June 2022



Kilternan Village SHD Application

Client: Liscove Limited

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NOTE: RATIONALE TO BE READ IN CONJUNCTION WITH LANDSCAPE DRAWINGS. IMAGES AND DIAGRAMS FOR ILLUSTRATIVE PURPOSES ONLY.





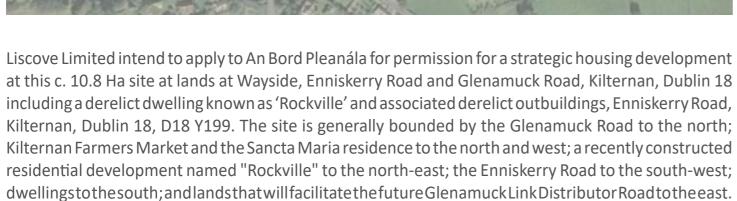
SITE CONTEXT

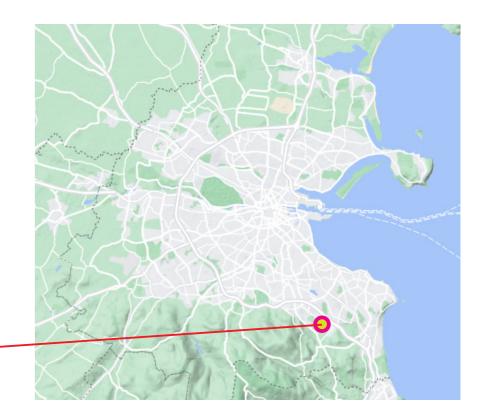




Site Location





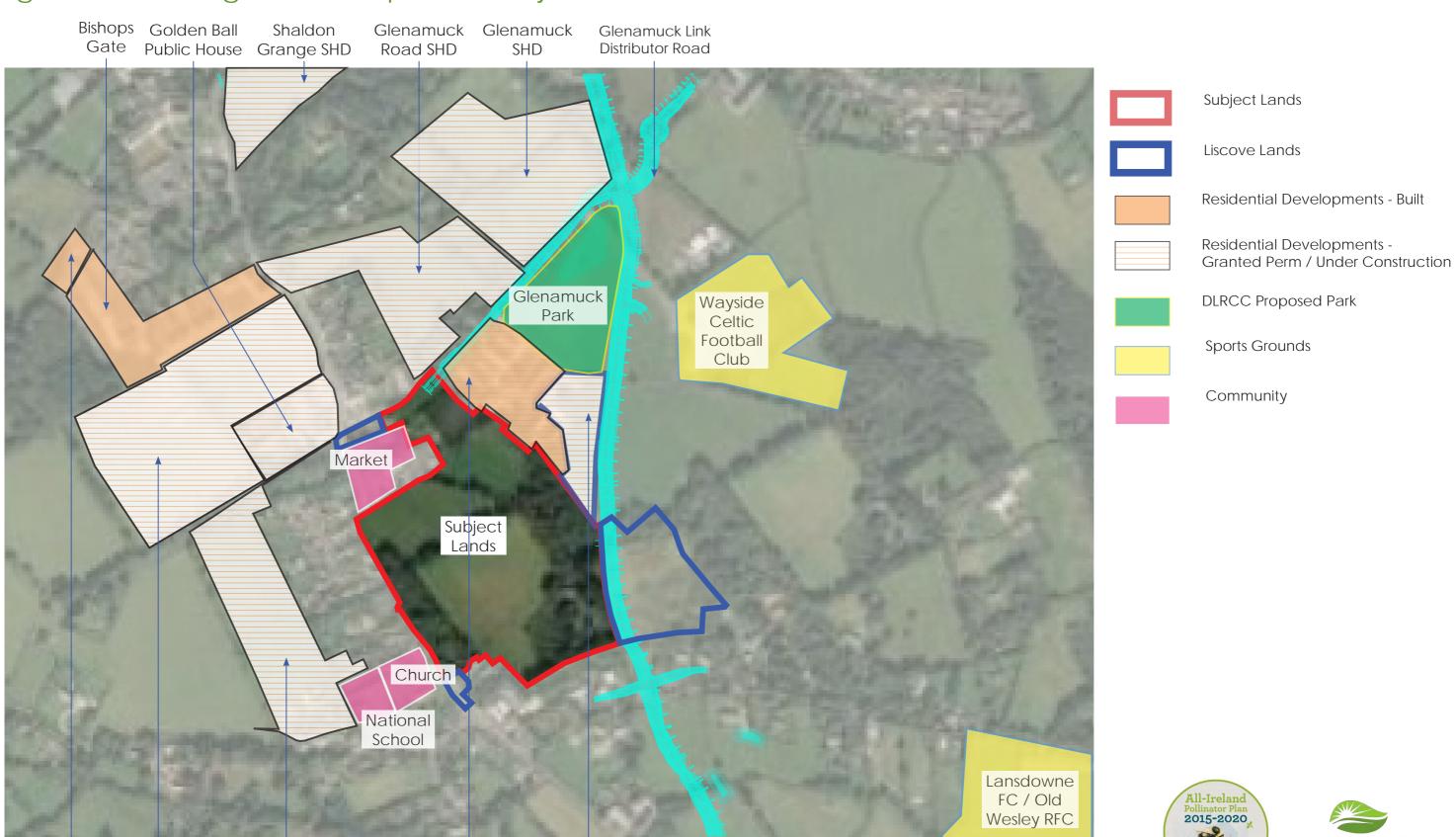


Subject Lands





Regional Planning & Development Objectives



Rockville

Development PH 2b





The

Glebe

Enniskerry

Road SHD

Suttons Field

SHD

Rockville

Development PH 1

Connectivity

Road Network







Connectivity

Wider Context



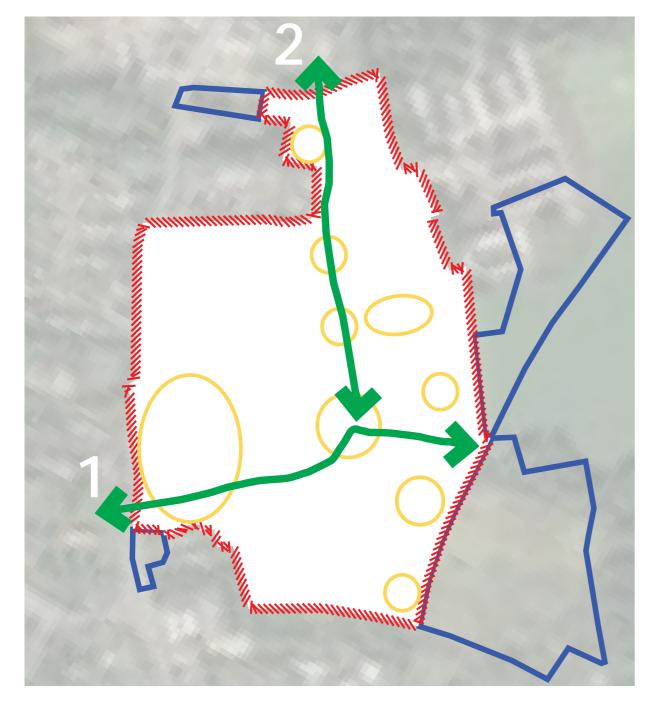
CONCEPT DEVELOPMENT





Concept Development

Initial Approach



The site layout is informed by two prominent elements, the existing hedgerow/woodlands, and the existing/proposed road infrastructure.

Tree protection and enhancement are a key tenet of the proposed design, as such, the provision of open space has been configured to best employ existing tree species and groups of trees/hedgerows. The aim of this approach is to retain the biodiversity profile of the site, and utilize the existing flora as a design tool to:

- inform the site circulation and greenway links
- dictate open space allocation
- influence materiality, site furnishing, and play elements

In landscape terms the proposed development will have the following objectives:

- To provide a new landscape feature in the form of a housing development that will significantly enhance and retain the character of the area.
- Achieve an integrated network of safe pedestrian and cycle routes by utilising links through and along parks, open spaces and green corridors
- To create new landscape features that will complement and enhance the landscape;
- To renew and augment existing vegetation with planting suitable to the local and new proposed environment.



Road Infrastructure Parameters



Retained Existing Woodland



Subject Lands



Liscove Lands



Open & Amenity Spaces

Green Route Path System

1. Dingle Way

Public Greenway Link. Sequence of high quality landscape nodes. Mature tree planting. Habitat cretation.

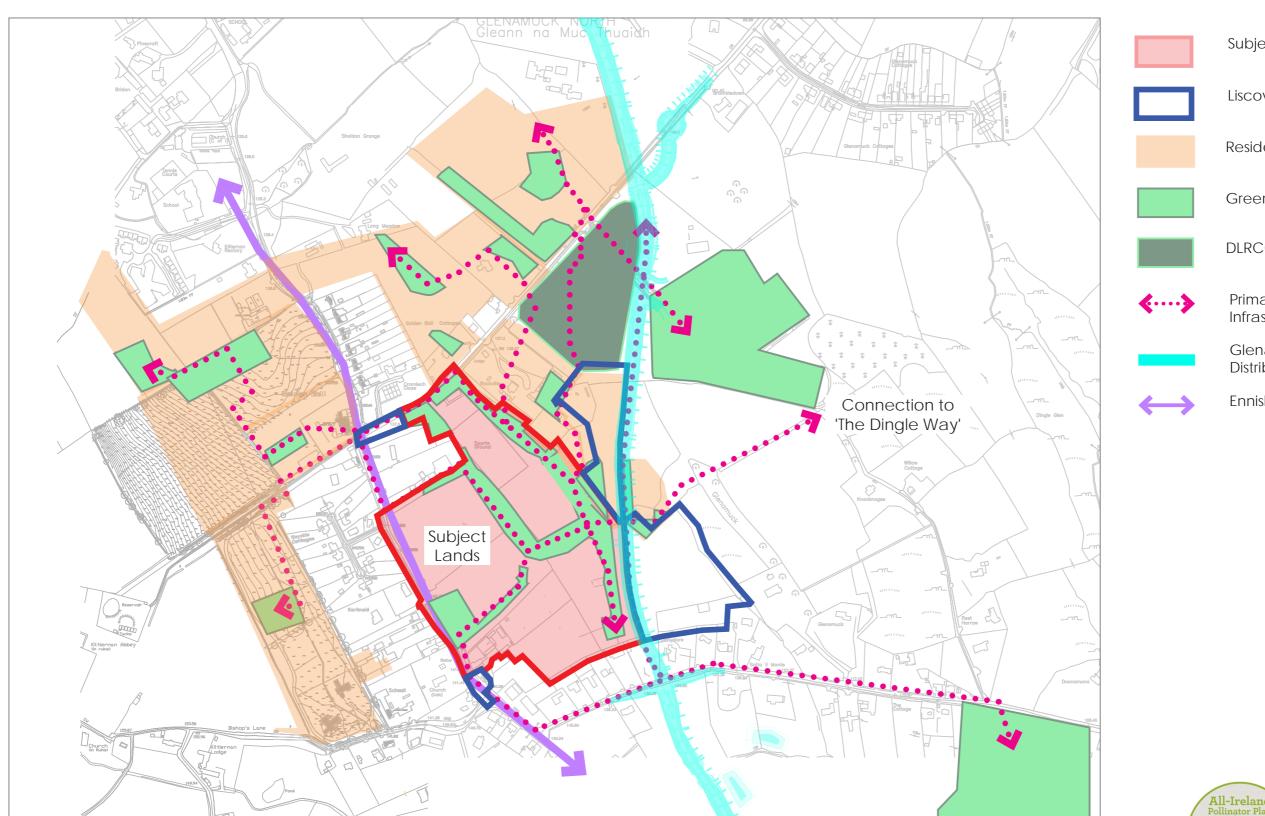
2. Woodland Walk

Maintain Existing Habitat / Woodland. Habitat renewal. Central spine of development. Exercise & play areas.

Concept Development

Site Circulation

Green Infrastructure Links



Subject Lands

Liscove Lands

Residential Developments

Green Open Space

DLRCC Proposed Park

Primary Green Infrastructure Links

Glenamuck Link Distributor Road

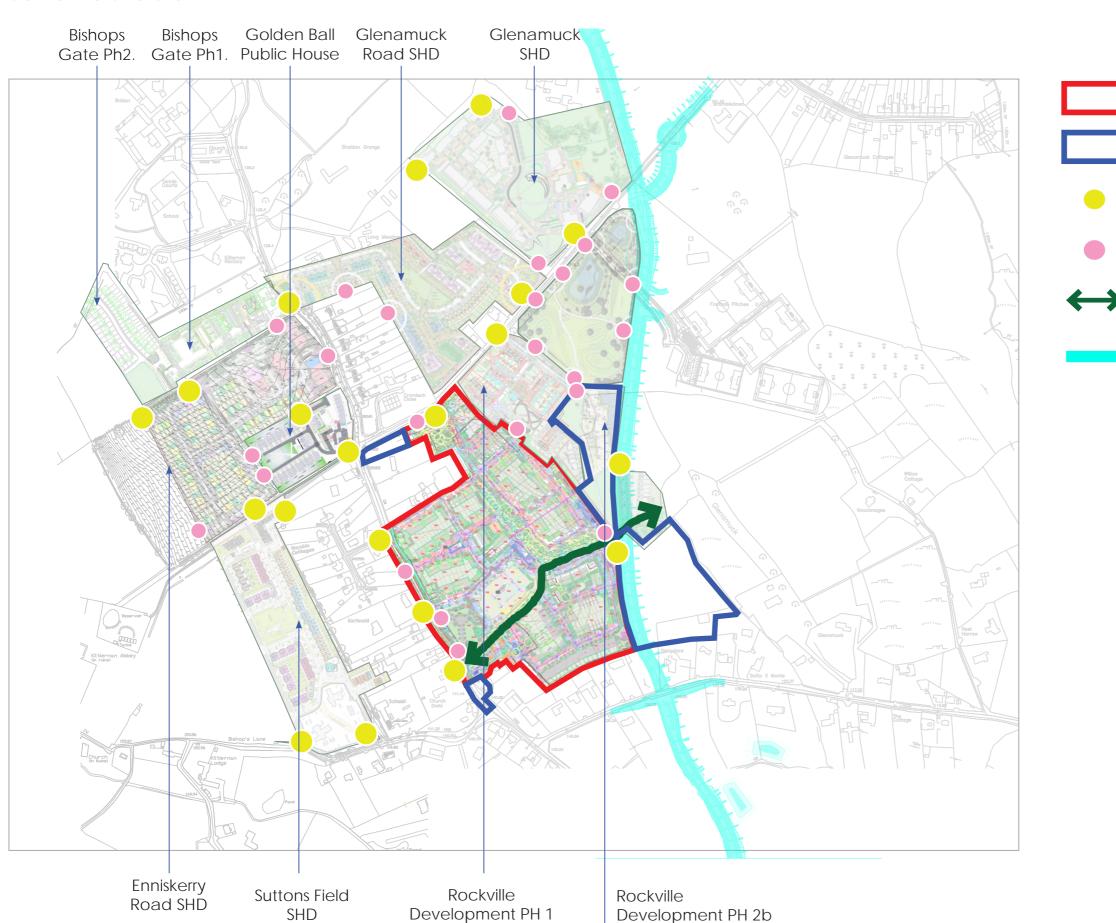
Enniskerry Road





Site Circulation

Connection Points



Subject Lands

Liscove Lands

Vehicular Links

Pedestrian Links

The Dingle Way

Glenamuck Link Distributor Road

Adjacent Links

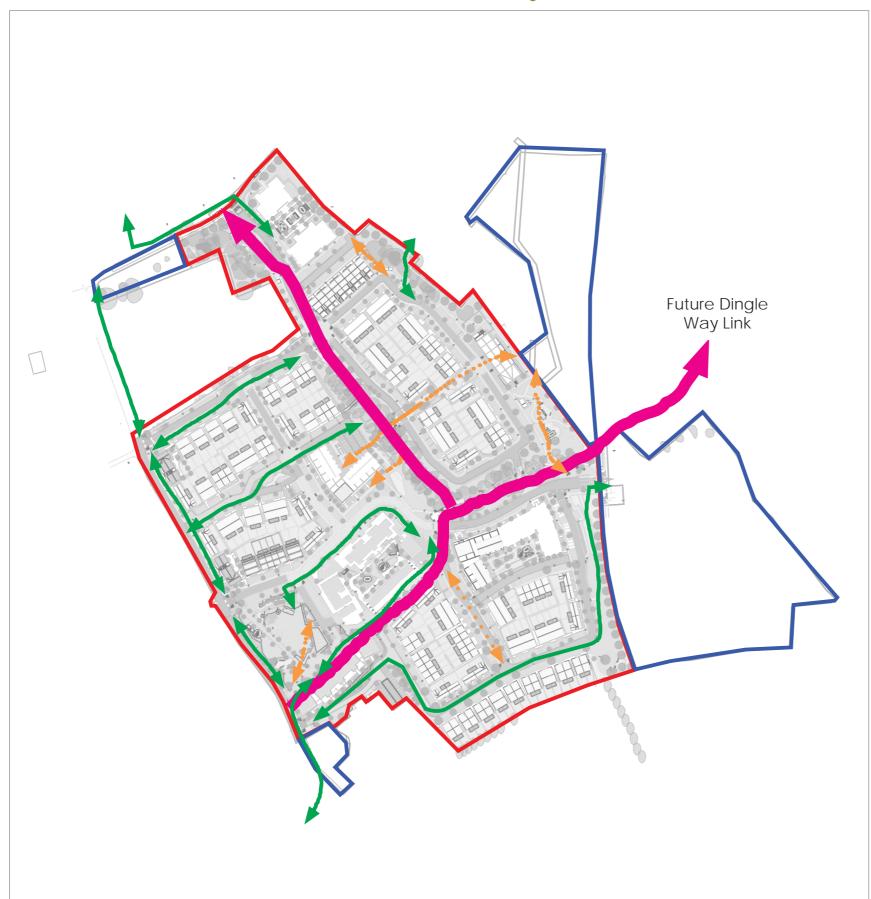
The development will provide vehicular access from Enniskerry Road and Glenamuck Road; vehicular access to the future Glenamuck Link Distributor Road; pedestrian links from Enniskerry Road and within the site to the neighbouring "Rockville" development to the north-east and a pedestrian/cycle route through the Dingle Way from Enniskerry Road to the future Glenamuck Link Distributor Road.

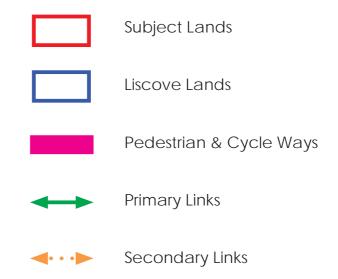




Site Circulation

Connectivity Plan





Connectivity

A key objective of the scheme is to reduce car dependency by providing high quality pedestrian and cycle networks. The provision of green infrastructure integrates the new development with the existing landscape, and allows the opportunity for future links subject to planning.

'The Dingle Way'

The Dingle Way is one of the prominent design features of the scheme that allows for the retention of existing mature trees, unifying the proposed series of green open spaces and urban plazas. This greenway is a crucial design feature in making this a livable community, enhancing the marketability of the scheme, improving the quality of residents' lives, and providing space for sustainable drainage.





Concept Development

Site Circulation

Connectivity Plan



Pedestrian Routes

Connectivity

A key objective of the scheme to reduce car dependency by providing high quality pedestrian and cycle networks. The provision of green infrastructure integrates the new development with the existing landscape, and allows the opportunity for future links subject to planning.



Cycle Routes

The increased permeability of the development within it's context is important to connect residents to surrounding opportunities, providing a safe and convenient route for children, with landscaped nodes for informal recreation, exercise, and enjoyment of nature.





LANDSCAPE CHARACTER AREAS





Landscape Masterplan





Landscape Character Areas

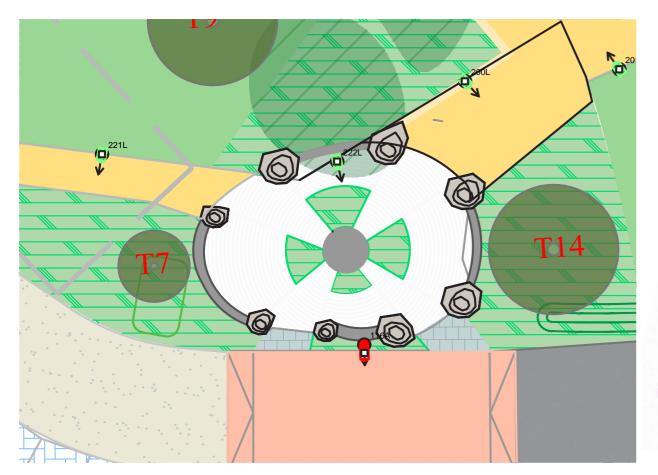
he development also provides: pedestrian links from Enniskerry Road and within the site to the neighbouring "Rockville" development to the northeast and a pedestrian/cycle route through the Dingle Way from Enniskerry Road to the future Glenamuck Link Distributor Road; 678 No. car parking spaces including 16 No. mobility impaired spaces, 73 No. electric vehicle spaces, 1 No. car share space, 4 No. drop-off spaces/loading bays; motorcycle parking; bicycle parking; bin storage; the decommissioning of the existing telecommunications mast at ground level and provision of new telecommunications infrastructure at roof level of the Neighbourhood Centre including shrouds, antennas and microwave link dishes; private balconies, terraces and gardens; hard and soft landscaping; sedum roofs; solar panels; boundary treatments; lighting; substations; plant; and all other associated site works above and below ground.

Plan





Focal Point



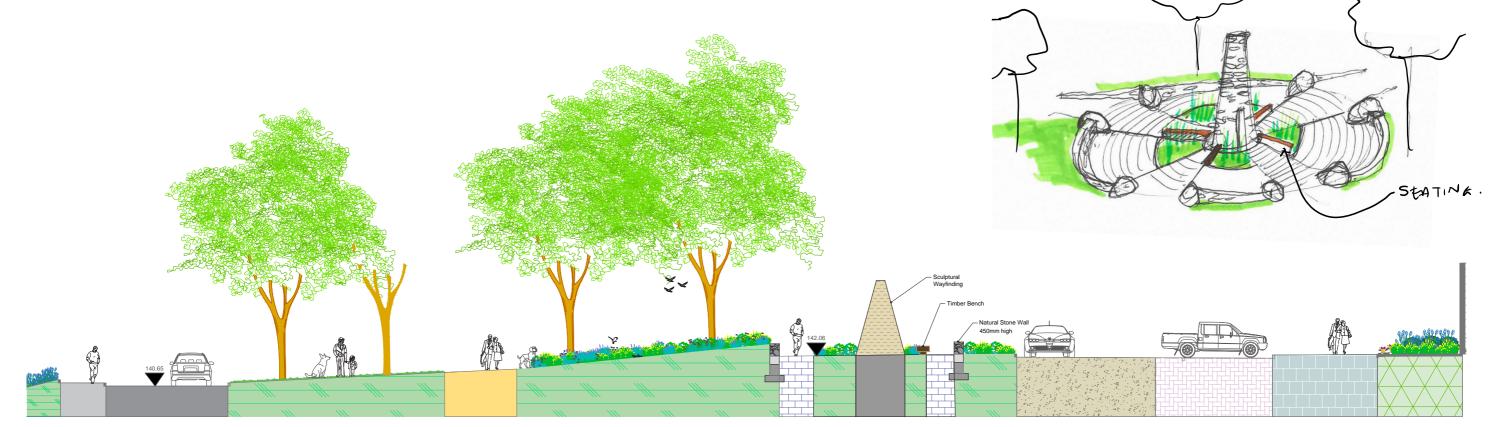
A central landscape focal point is proposed where the pedestrians will come to a decision node. A Proposed sculpture piece will be provided showing directions. Different paving to show the different characteristics of each quarter will be provided including:

- The Sea
- Mountains
- Market Quarter
- Lead mine

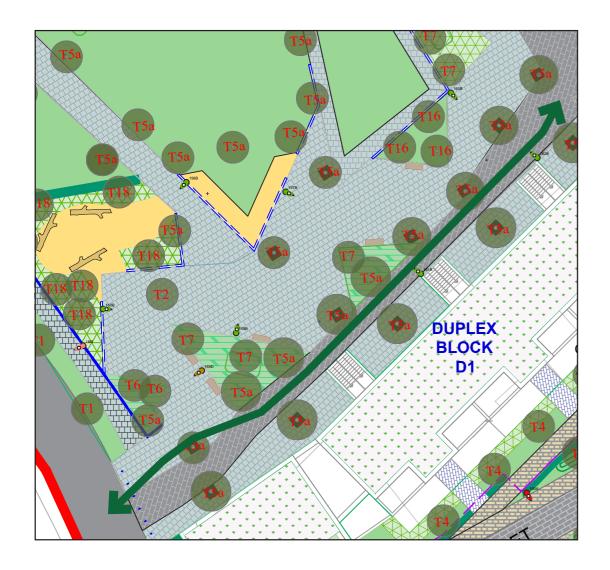


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Sculptural Wayfinding lit up at night



The Dingle Way



The Dingle Way acts as a link between each character area, and features a range of high quality landscape nodes. The Dingle Way caters for the recreational and amenity requirements of future residents and wider public within the subject lands. Areas of congregation, informal recreation, and exercise provide a varied experience along the greenway, creating a sense of place.

The Dingle Way will:

- Improve wider external linkages and corridors
- Enhance connectivity of wider strategic networks
- Enable long-term strategic expansion of urban areas
- Promote the development of Regional and local networks of hiking and walking routes/trails
- Be a waymarked green route
- Include a plaza area with Paving Flags and Paving associated with the character area theme: Mountain.





The Dingle Way





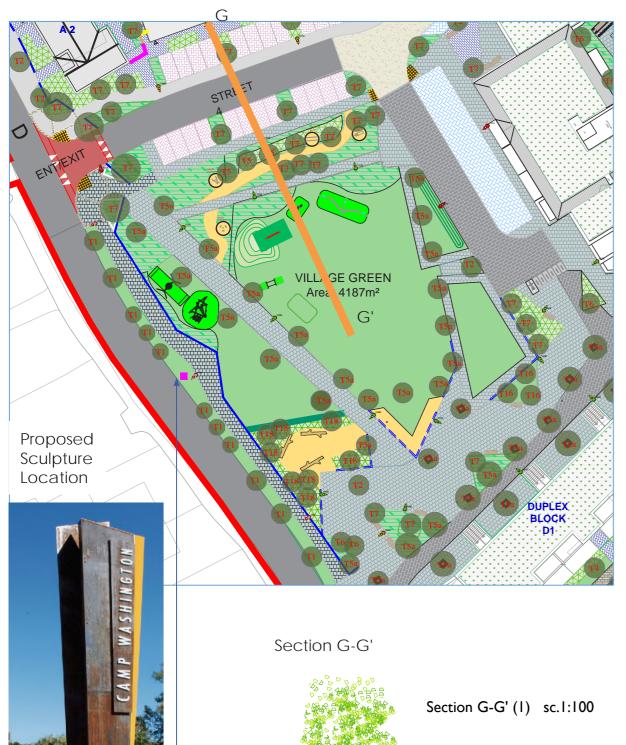






1. Mountains

Village Green



The Village Green acts as a green focal point for the entire development, and is the primary open space in the 'Mountain' Character Area.

The Village Green will serve as the primary relief to the urban scale of the adjacent Neighbourhood Centre, which incorporates a creche, office, medical, retail, convenience retail, and community centre.

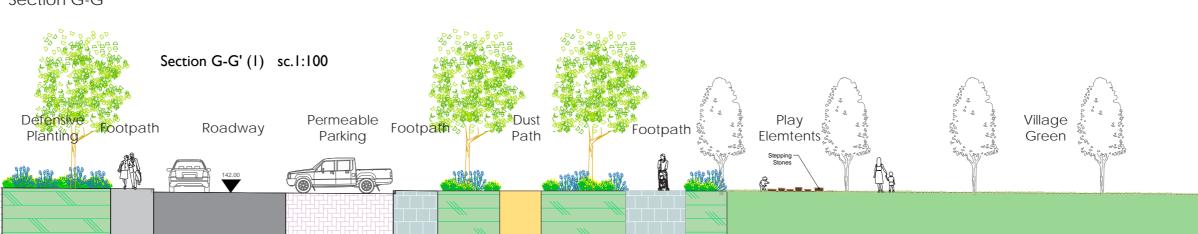
A palette of high quality landscape materials has been suggested in order to enhance the pedestrian area. Changes of landform add interest and help delineate the different congregation spaces, with elements of natural play.

A variety of seating and gathering points are an integral part of the proposal. These attractive surface treatments are accompanied with natural and formal tree and shrub planting to soften the appearance of the areas, with proposed pollinator species used to bring biodiversity into this space.









1. Mountains

Neighbourhood Centre





Civic Space



The Neighbourhood Centre, Dingle Way and Community Facility all come together at the Village Green. The intersection of these buildings and spaces is an important design node - providing a focal point and this forms part of the Objective of the LAP to function as the 'heart' of Kilternan.

This node may be seen as a civic space - in this it was appropriate to develop and reorder to provide passive supervision and activation along the Dingle Way. The reordering of the space involved removal of a small quantum of existing hedge and trees to provide an inviting plaza area. The reorganisation provides for new trees in keeping with the new proposed urban form and civic space.

To create a sense of place a range of materials have been employed, with stone walls, paving, tree planting and seating.





2. The Sea

It is proposed to utilise the existing tree lined pathway as a focal point in the development, creating a woodland walk. A series of breakout spaces will activate this linear route, and create multiple access points between different character areas. Passive oversight gives a sense of comfort and safety for the users, who are encourgaed to play, exercise, and relax.



Existing Tree Lined Farm Pathway



Indicative Visualisation of the Pathway

Woodland Walk

- Encourage sustainable transport options
- Encourage and facilitate the development, design and management of high quality natural and semi-natural areas.
- Minimise impacts on locally important biodiversity in DLR.
- Enable habitat creation
- Increase the presence of people





9.3.1.3 Policy Objective OSR7: Trees, Woodland and Forestry It is a Policy Objective to implement the objectives and policies of the Tree Policy and the forthcoming Tree Strategy for the County, to ensure that the tree cover in the County is managed, and developed to optimise the environmental, climatic and educational benefits, which derive from an 'urban forest', and include a holistic 'urban forestry' approach.





2. The Sea

The design intention is to increase the presence of people, encourage sustainable transport options, and enable habitat creation.

The natural break in the existing hedgerows creates an opportunity to create a Central Node in the Woodland Walk that allows the person to chose which direction they wish to proceed, either for the purpose of their journey or indeed for the smaller children who are exploring the woodland area.

It is also a meeting point of the various Character Areas and it is proposed to identify each area and allow for visual distinction offering the choice of route.

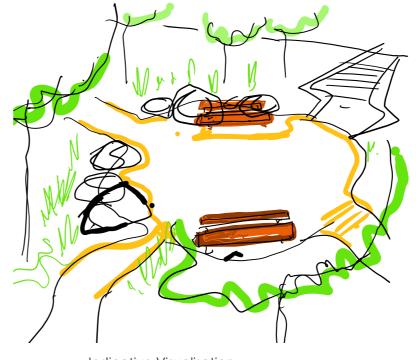


Use of existing logs as play equipment



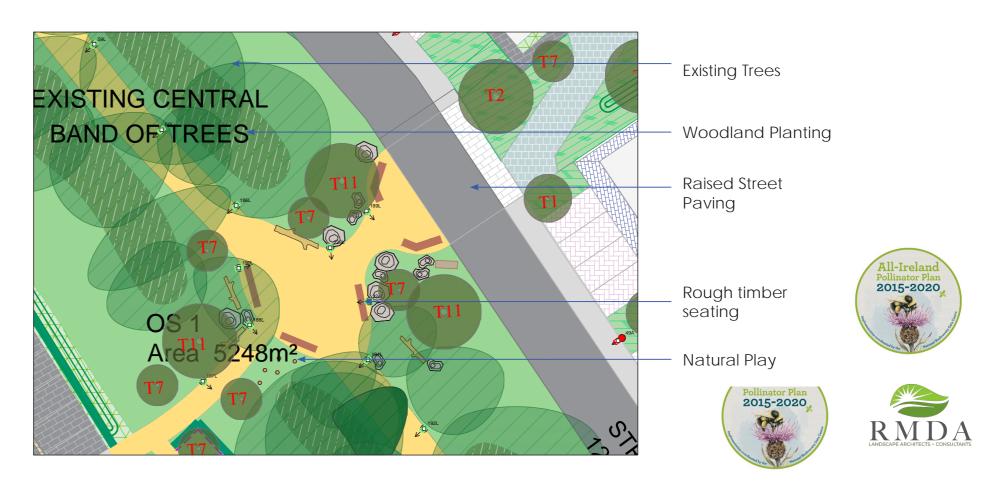
Use of existing logs as seating

Woodland Walk - Central Node



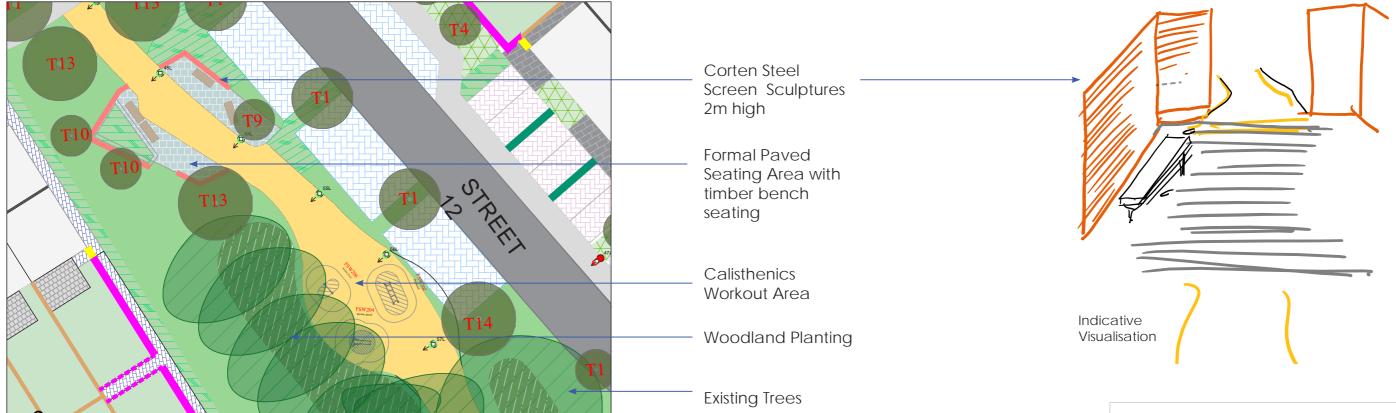


Indicative Visualisation



2. The Sea

Woodland Walk - Breakout Space





Reference Image - Corten Steel Entrance



Reference Image - Calisthenics Equipment

- Unexpected breakout space set against natural woodland
- Encourage physical activity

9.3.1.1 Policy Objective OSR5: Public Health, Open Space and Healthy Placemaking It is a Policy Objective to support the objectives of public health policy including Healthy Ireland and the National Physical Activity Plan (NPAP) 2016, to increase physical activity levels across the whole population thus creating a society, which facilities people whether at home, at work or at play to lead a more active way of life (consistent with RPO 9.16).







2. The Sea

Urban Plaza

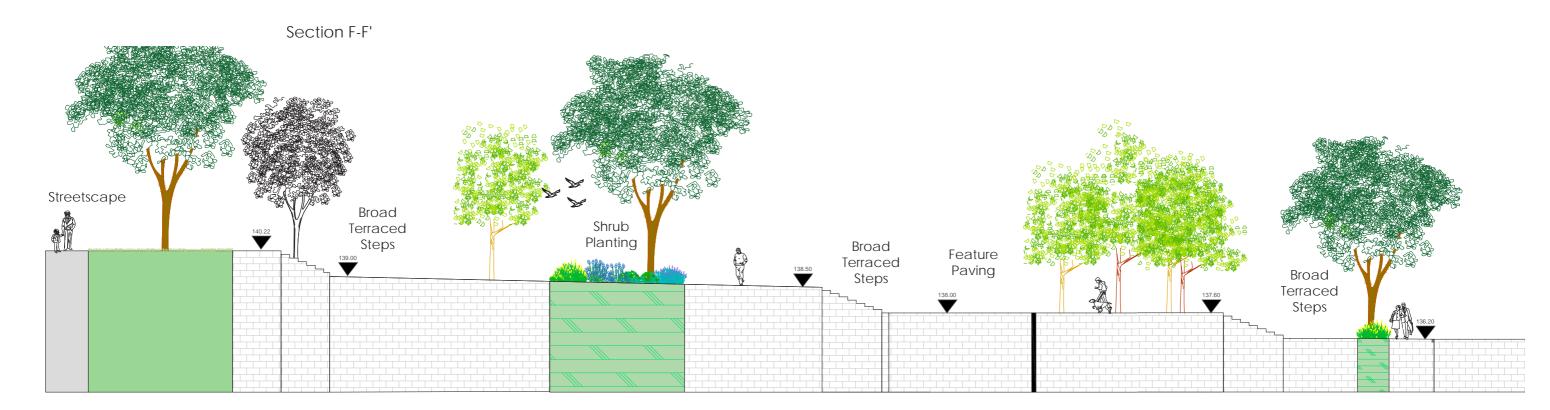


- Provides an attractive congregation point that fosters positive social interaction.
- Urban form of visual amenity
- Trees and congregation areas for neighbourhood use



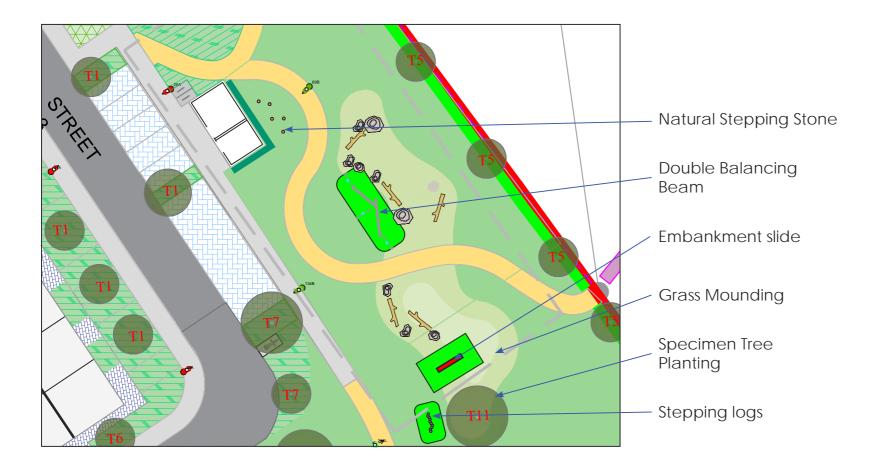






2. The Sea

Natural Play Space









Natural playgrounds help children to develop other beneficial behaviours in addition to physical skills. These behaviours include social skills, cooperation, and the ability to solve problems. In addition, natural playgrounds stimulate a child's imagination and creativity more than a traditional playground. This design approach is more sustainable, adapting to the natural topography and environment.

This bespoke designed open space will appeal and evoke a wide range of children's emotions. Capabilities of play such as tumble ,chase game. Extensive grass areas throughout the open space are ideal for kickabout and chasing games.

Gentle grass mounding provides a varied and interesting physical play environment.





3. Lead Mine

Natural Play Space



Specimen Tree
Planting

Swale

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Gentle grass mounding provides a varied and interesting physical play environment.







We are proposing a natural play area with a varied and interesting physical environment. A bespoke designed space that has gentle grass mounding, thus providing a change in levels. This provides a varied and interesting physical play environment.

In addition, natural playgrounds stimulate a child's imagination and creativity more than a traditional playground. They provide a more sustainable use of materials and blend in with natural environment and existing topography.



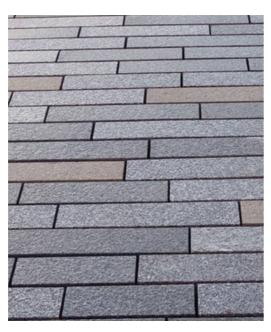


4. Market Quarter

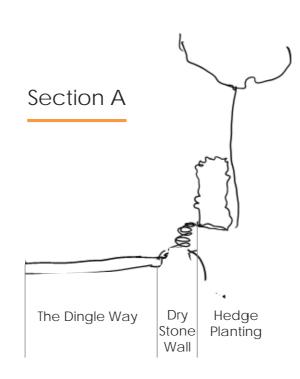


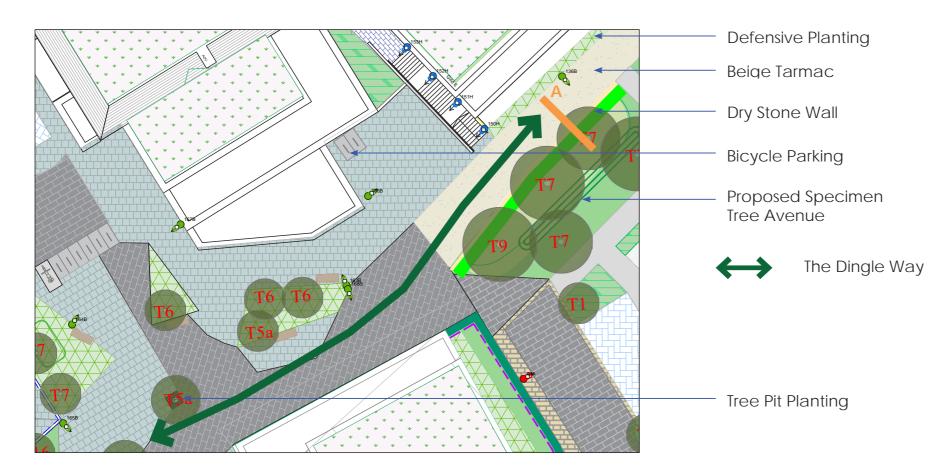
Reference Image - seating

Community Centre



Feature Paving







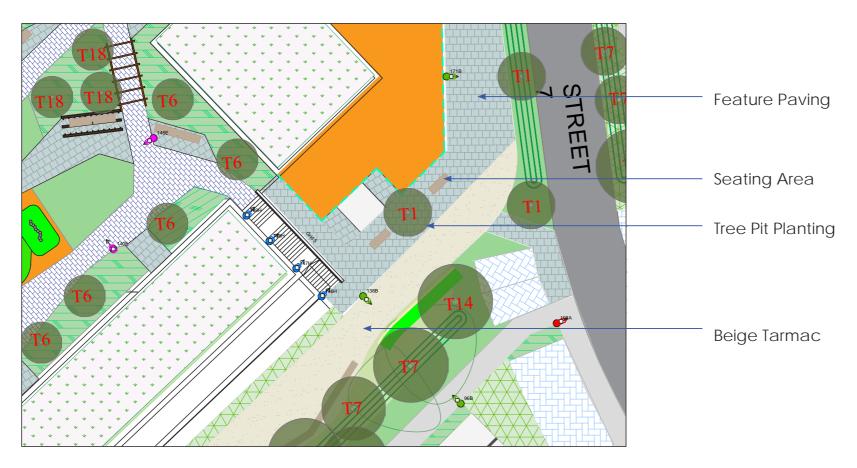
- Provides an attractive congregation point that fosters positive social interaction.
- Legible access points
- Passive oversight creates a sense of comfort and safety for the greenway users
- Encourages relaxation, exercise, and social interaction
- Increase the presence of people
- Encourage sustainable transport options
- Tree pits and defensive planting enable habitat creation





4. Market Quarter

The Dingle Way - Central Plaza





- Community Focal Point
- In ground Uplighting
- Seating Areas



Uplighting



Reference Image - Tree Pit



Reference Image - Rough timber seating



Beige tarmac



Feature Paving





DESIGN PROPOSAL





Arboricultural Impact

Trees & Hedgerows Removed



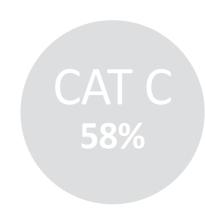
EXISTING TREES

186no. (within redline boundary)

A total of 218 trees were identified and assessed. 12 hedgerows (Cat C) and 1 tree line (Cat C)

The condition of trees is generally moderate to good, with the main concentration of higher quality trees located in the centre and north or the site.

The percentage of trees refers to trees within the red line only.









% of the total number of the existing trees



REMOVAL TREES

66no.

A total of 66 (35.5%) of the 186No trees will be removed at the site, many of which have been highlighted for removal due to poor condition.

A further 4 hedgerows have been identified for removal, and appoximately 66m of another hedge, plus a scrub/nursery stock area.



CAT B 33.3% 18/54

CAT C 25.9% _{28/108}



% of the total in category





Arboricultural Impact

Trees & Hedgerows



RETAINED TREES

120no.

A total of 120 trees will be retained at the site

Tree protection and enhancement are a key tenet of the proposed design. The main concentration of retained trees are located across the central open space. The Dingle Way' and pedestrian/cycle links will benefit from the mature and natural setting, with places of rest and play to enjoy along the way.

CAT A 100% 2/2

CAT C 74.1% 80/108

CAT B 66.6% 36/54 CAT U 9.1% 2/22

% of the total in category



PROPOSED TREES

659no.

A total of 659 trees are proposed at the site

Street Trees / Front Garden 14-16cm

Tilia Tomentosa 'Brabant' Pyrus calleryana 'Chanticleer' Carpinus betulus 'Fastigiata' Sorbus aucuparia Tilia cordata 'Greenspire'

Open Space 14-16cm / 20-25cm

Betula pendula
Pinus sylvestris
Alnus glutinosa
Quercus robur 'Koster'
Quercus robur
Aesculus hippocastanum
Fagus sylvatica
Prunus avium

Front Garden 12-14cm

Amelanchier lamarckii

Mulitstemmed Trees 12-14cm

Prunus avium 'Plena' Malus 'John Downie'^ Betula utilis var. jaquemontii





Typology & Materials



Local Street - primary distribution, road / path delineation of surfaces

Homezone - pedestrian priority, shared surface, road /path same surface treatment

Paved Streetscape - spatial delineation, pedestrian priority, shared surface

Beige Tarmac

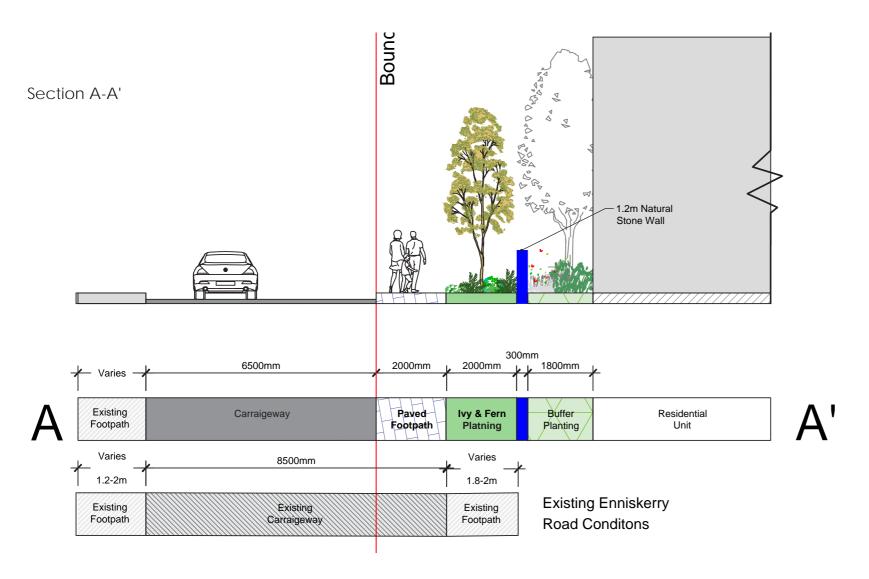
Permeable Paving / Surface

Street Hierarchy

The street network for the proposed development aims to provide a permeable street layout that emphasises pedestrian priority and clearly defined street typologies.

Street trees and horizontal deflection will limit traffic speeds and increase pedestrian comfort, while defensive planting define individual residential units.

Primary Distribution - Enniskerry Road

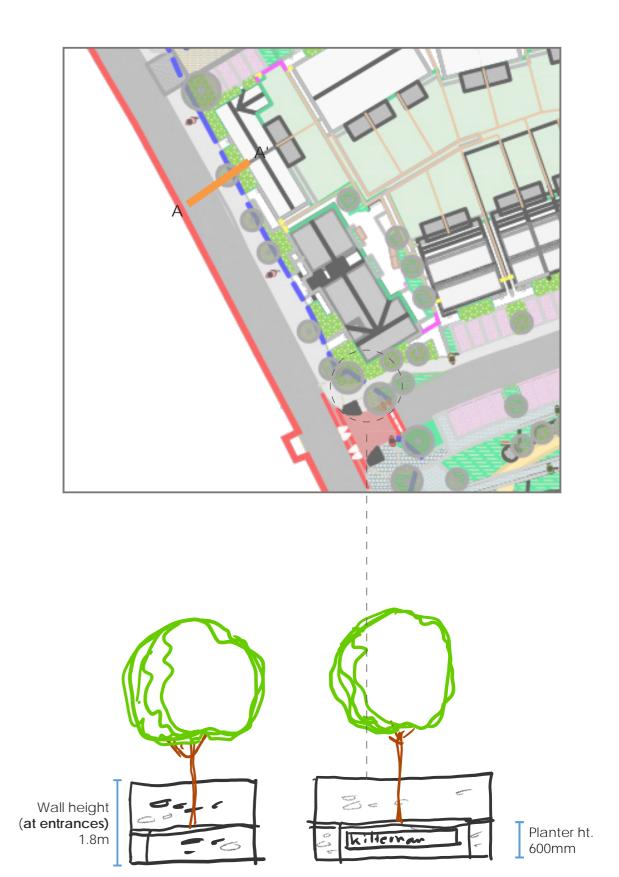




Existing streetscape character defined by low stone wall



Reference Image



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Pedestrian Entrance

Primary Distribution - Enniskerry Road & Village Green

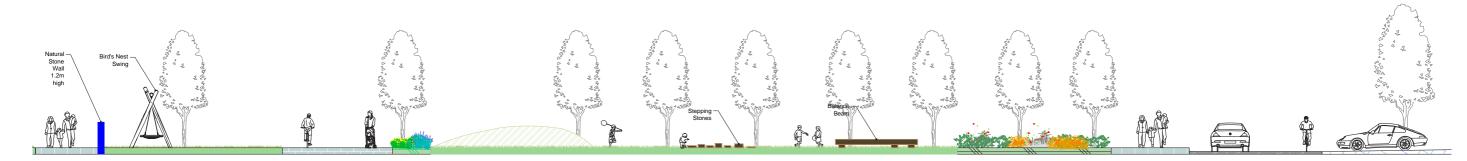


Streetscape character defined by specific tree species, creating a sense of place.





Section B-B'



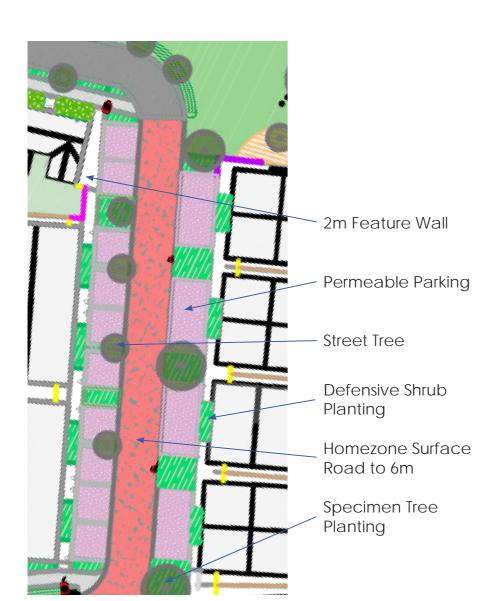




Homezone / Pedestrian Priority



Homezone Shared Surface





Homezone Shared Surface

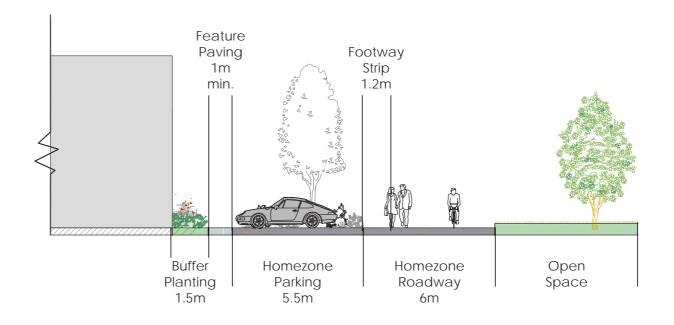
Quieter streets with homogeneous shared surface providing pedestrian priority (6m width) with kerb delineation.

Shared street provision: pedestrians and cyclist share carraigeway with vehicles in low traffic speed and low traffic volume environment



Homezone Locations

Indicative Section







Kilternan, County Dublin

Homezone



Homezone Shared Surface

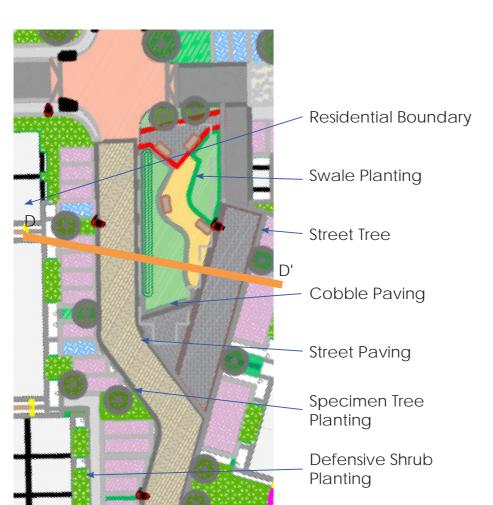


Homezone Shared Surface

Permeable Parking



Reference Image - Swale Planting



Quieter streets with shared surface providing pedestrian priority (4.8m + 1.2m footway strip on one side to provide a 6m width)

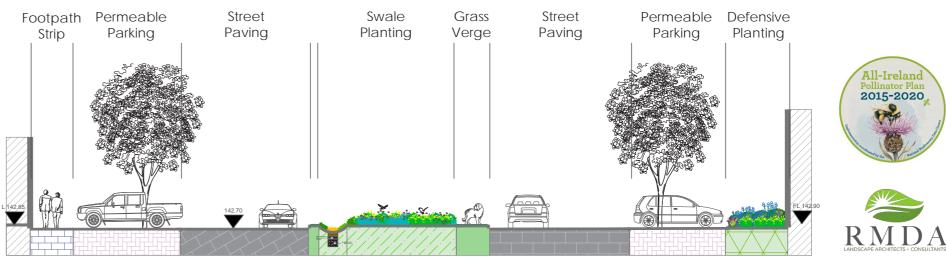
Shared street provision: pedestrians and cyclist share carraigeway with vehicles in low traffic speed and low traffic volume environment



All-Irelan 2015-2020

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Pedestrian Prioirity Locations



Section D-D'

Hierarchy





Public Park / Open Spaces

A range of high quality Public Open Spaces have been proposed to cater for the recreational and amenity requirements of future residents and wider public within the Plan lands.

The Public Open spaces have been developed with proposed extensive path systems that are organic in style. We have proposed native woodland tree planting, native transplants & a wild flower meadow mix to help create a natural habitat area.

In addition, each unit has been provided with private open space and access to high-quality communal open space.

Kilternan, County Dublin

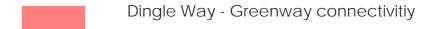
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Hierarchy





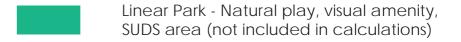
















Categories





Total Proposed Public Open Space (17.5%) 18,879 m² Total Required Public Open Space (15%) 16,144 m²

Communal Open Space Required - 1,589 m² Communal Open Space Proposed - 2,934 m²

Note: Areas designated for attenuation do not contribute to the above totals.





Public Open Space Areas



Public Open Space -18,879 m²

Note: Areas designated for attenuation tanks do not contribute to the above total.

O.S.1 - 5,248m²

O.S.2 - 4,508m² (Village Green)

O.S.3 - 1,985m²

 $O.S.4 - 903m^2$

O.S.5 - 1,247m²

O.S.6 - 313m²

O.S. 7 - 984m²

O.S.8 - 959m²

O.S.9 - 2,732m²

Total Proposed Public Open Space (17.5%) 18,879 m² Total Required Public Open Space (15%) 16,144 m²

Dingle Way - 1,572m²

The Dingle Way is an important public amenity within the development. To include it in the POS calculations would result in 20,451m² (19%)

Communal Open Space - 2934 m² See Page41 Communal Open Space - for Quantities.

Note: Outline is indicative only, please refer to landscape drawings for further detail.





Communal Open Space Areas





Communal Open Space - 2934 m²

C.O.S.1	- 187m2	A1 - Duplex
C.O.S.2	- 128m2	A2 - Duplex
C.O.S.3	- 160m2	Block B1 - Duplex
C.O.S.4	- 140m2	Block C - Duplex
C.O.S.5	- 225 m2	Block D - Duplex
C.O,S.6	- 323 m2	Block B2 & B3
C.O.S.7	- 150 m2	Block D1 - Duplex
C.O.S.8	- 980 m2	Neighbourhood Centre
C.O.S.9	- 641 m2	Block C & D Apartment

Communal Open Space Required - 1,589 m² Communal Open Space Proposed - 2,934 m²

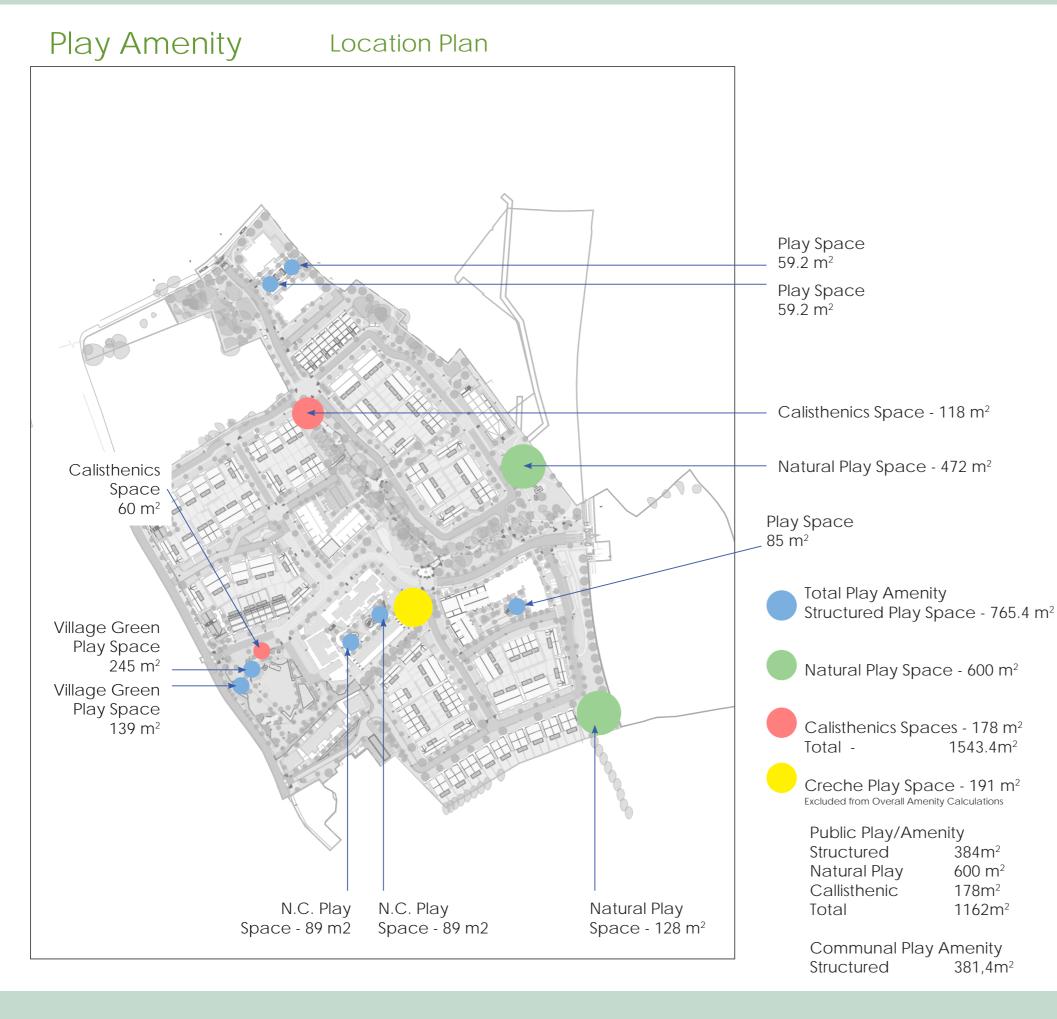
Defensive areas of 1.5m in depth excluded from Communal Calculations.

Note: Areas designated for attenuation do not contribute to the above totals.

Note: Outline is indicative only, please refer to landscape drawings for further detail.







Characteristic of Proposed Play Space **Experiencing a range of emotions**

This bespoke designed open space will appeal and evoke children's emotions.

Capabilities of play such as tumble ,chase game. Extensive grass areas throughout the open space are ideal for kickabout and chasing games.

Playing with identity

Role play, Places to hide in the natural elements of open space.

Movement

Tree planting and gentle grass mounding are ideal places to hide. These changes in levels are suitable for jumping and running down gentle hills. Some Wooden seating areas could be suitable for climbing.

Proposed playground located in open space will accommodate climbing.

Stimulation of the five sense

Natural elements throughout open space provide quiet places, dark and bright areas that appeals to a child senses.

Sensory and textured plants planted throughout the space will appeals to the senses.

Experiencing change in the natural and built environment. Experiencing the seasons

The contrast between open space and paving provide opportunities to learn and play.

Natural elements in open space such as trees will allow Children to experience changes in seasons.

Social interactions

Meeting points and a number of seating areas will encourage social interaction.

Kilternan, County Dublin

Ronan Mac Diarmada & Associates

Landscape Architecture

Play Amenity

Natural Play Elements

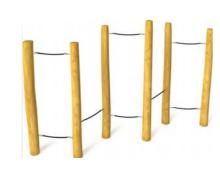
Junior Play - Under 5 years of age

All surfaces manufactured and installed to EN 1176 and all play equipment manufactured and installed to EN1177











Junior Play - Over 6 years of age

All surfaces manufactured and installed to EN 1176 and all play equipment manufactured and installed to EN1177.







Natural Play Equipment

Natural playgrounds help children to develop other beneficial behaviors in addition to physical skills. These behaviors include social skills, cooperation, and the ability to solve problems.









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Kilternan, County Dublin

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Landscape Architecture

Boundary Treatment Plan



Retaining Butt Wall & Railing 1.8m high



Stone Wall Pier

Varies in Height according to wall &/or Railing



Open Space Wall - Natural Stone 450mm high



Dry Stone Wall



Streetscape Feature Wall 1.2m high



Granite Feature Wall 2m high



Gabion Wall



Boundary Treatment Plan







Structural Hedge Planting



Timber Post and Rail Fence



Residential Boundary Fence Timber Panel & Concrete Post Fence



Parkland Railing 🔳 🔳 🔳



Double Sided Panel Timber Fence



Tongue & Grooved Spruce Gate



LANDSCAPE FEATURES





Retained & Enhanced Biodiversity



Existing Trees Retained

Proposed Trees - 659no.

Proposed Swale Planting

Proposed Wildflower Planting

Proposed Hedgerow

Landscape Attenutation Areas

Retention and enhancement of biodiversity ensures that the natural, cultural, and health requirements of communities are integrated into, and not compromised by, the new development.

GLDR

This green infrastructure strategy follows an overarching strategy of protecting, creating, enhancing, and connecting the natural heritage and biodiversity value of the lands.

The provision of trees, along with shrub, wildflower, and bulb planting, thread through and around the built environment, connecting with one another. This will maximise the environmental benefits and habitat creation.

Proposed Tree Planting Street Trees / Front Garden 14-16cm

Acer campestre 'Elsrijk'
Carpinus betulus 'Fastigiata'
Tilia cordata 'Greenspire'
Pyrus calleryana 'Chanticleer'
Sorbus acuparia

Front Garden 12-14cm

Amelanchier lamarckii

Open Space 14-16cm / 20-25cm

Betula pendula
Alnus glutinosa
Quercus robur
Fagus sylvatica
Pinus sylvestris
Quercus robur 'Koster'
Aesculus hippocastanum
Prunus avium

Mulitstemmed Trees 12-14cm

Prunus avium 'Plena' Betula utilis var. jaquemontii Malus 'John Downie'^ Betula pendula 'multistem'





Street and Open Space Trees







Fagus sylvatica



Betula jacquemontii multi stem



Malus domestica



Aesculus hippocastanum



Pinus sylvestris



Prunus avium



Betula pendula



Amelanchier lamerkii



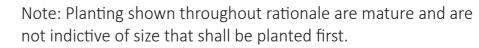
Prunus domestica



Sorbus aucuparia



Quercus robur





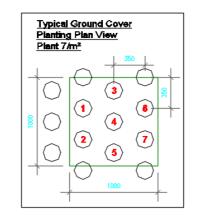


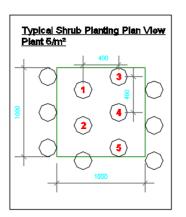
Shrubs - To Private Spaces





Miscanthus sinensis









Kilternan, County Dublin

Ronan Mac Diarmada & Associates

Landscape Architecture

Defensive Planting







Bergenia cordifolia



Libertia grandiflora



Lavandula angustifolia



Hypericum hidcote

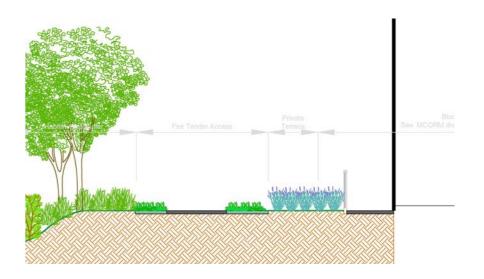


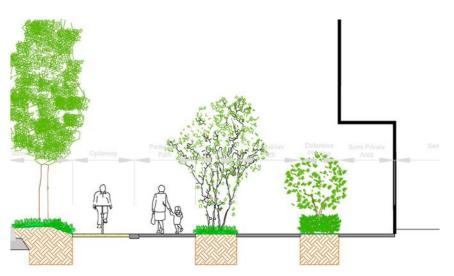
Miscanthus sinensis











Defensive space is provided between private patios, apartments and public open space across the scheme. These are planted with low shrub planting, large shrubs and small trees. Similarly the same treatment is used within the communal courtyards between private patios, apartments and communal open space.





Hedgerows

H1 - Hedgerow Planting Detail

Hedge mix 60-90mm

100% Prunus lusitanica

50 x 50 stake tied with a single rubber gut tie.
2 rows @ 500mm centres -400mm apart,

Private Space Hedegrow Noise Barrier



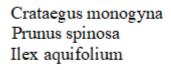
Hedge Type 1 Mix Prunus Iusitanica Hedge



Elaeagnus ebbingei

H2 - Hedgerow Planting Detail

Hedge mix 60-90mm



50 x 50 stake tied with a single rubber gut tie.
2 rows @ 500mm centres -400mm apart,

Public Park Hedgerow



Hedge Type 2 Mix Crataegus monogyna



Viburnum opolus



Hedge Type 2 Mix Prunus spinosa



Corylus avellana



Hedge Type 2 Mix Ilex aquifolium



Rosa cania



Landscape Features

Proposed Planting

Wildflower Mix



Ribwort plantain Plantago lanceolata



Red clover Trifolium pratense



Bird's-foot trefoil Lotus corniculatus



Bulbous buttercup Ranunculus bulbosus



Meadow buttercup Ranunculus acris



Lady's-bedstraw Galium verum



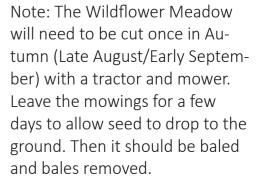
Cowslip Primula veris



Oxeye daisy Leucanthemum vulgaris



Yellow Rattle Rhinanthus minor





Common knapweed Centaura nigra



Common sorrel Rumex acetosa



Burnet saxifrage Pimpinella saxifraga



Autumn hawkbit Leontodon autumnalis



Rough hawkbit Leontodon hispidus





Hard Landscape Palette

Features

Furniture Palette

Play Equipment Palette

Elements Palette



Wooden seating 53no.



Existing logs as seating 10no.



Calisthenics Equipment

- incline press
- decline bench
- dip bench
- in shape step up
- inshape hyperextension
- inshape situp



Play Equipment

- Wooden Log 15no. Stepping logs 4no.
- Balance Beam

- Rope nest swing



Tree Pit Grilles 7no.



Corten Steel Screens 3no.



- 2no.
- 2no.
- Mound & Slide
- Bird's nest



Landmark Totems



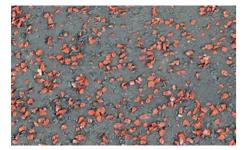


Hard Landscape Palette

Surfaces

Surface Palette

In-situ Surfaces



Coloured Chip in SMA



Brushed Concrete with trowel edge finish (streets)

Paths





Ballylusk Dust Path (Woodland Walk)



Beige tarmac

Paving Palette

Feature Paving

Light coloured flags to maximum light within courtyards w/contrasting paving blocks





Graphite Paving



Feature Paving



Homezone / Pedestrian Priority Shared Surface



Permeable Parking Pavers



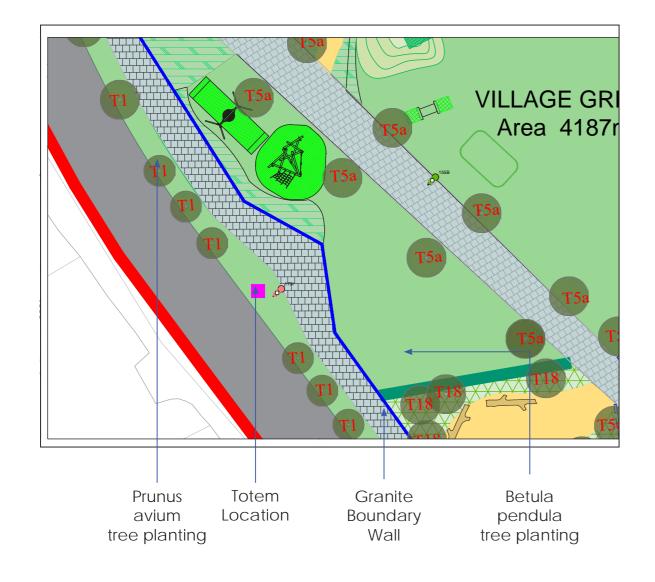
Cobble Paving (feature areas & paving trim)





Landscape Treatments

Landscape Totem









Typical Examples of Landmark Totems



Reference Image - Granite Wall



Prunus avium street tree planting



Betula pendual Tree Planting





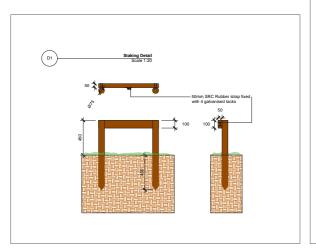
Kilternan, County Dublin

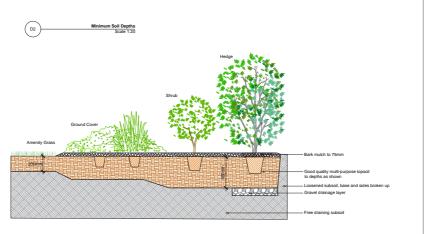
DETAILED DESIGN

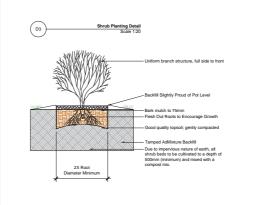


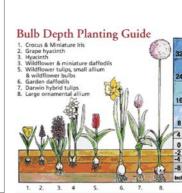


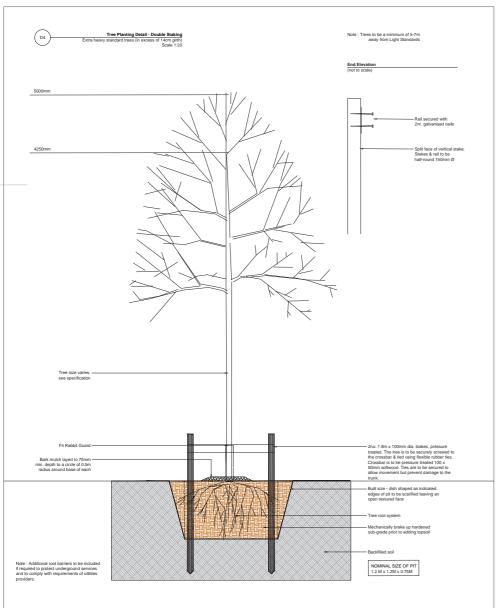
Soft Landscape Planting Details

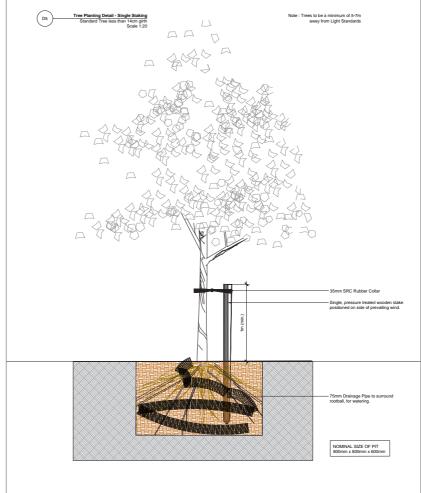


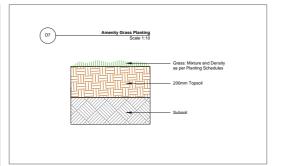


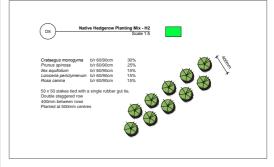
















Kilternan, County Dublin Ronan Mac Diarmada & Associates

Soft Landscape

Tree Protection & Detail

SCHEDULE OF IMPLEMENTATION:

1. ALL TREE AND HEDGEROW PLANTING IS TO BE CARRIED OUT DURING THE FIRST WINTER SEASON, I.E. NOVEMBER TO FEBRUARY INCLUSIVE.

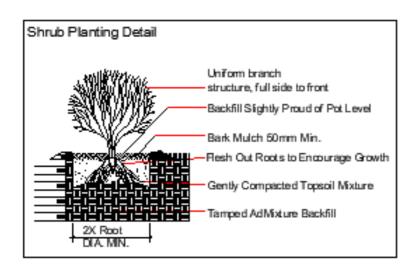
2. ALL LAWN AREAS ARE TO BE PREPARED AND SEEDED DURING THE GROWING SEASON, I.E. APRIL TO OCTOBER INCLUSIVE.

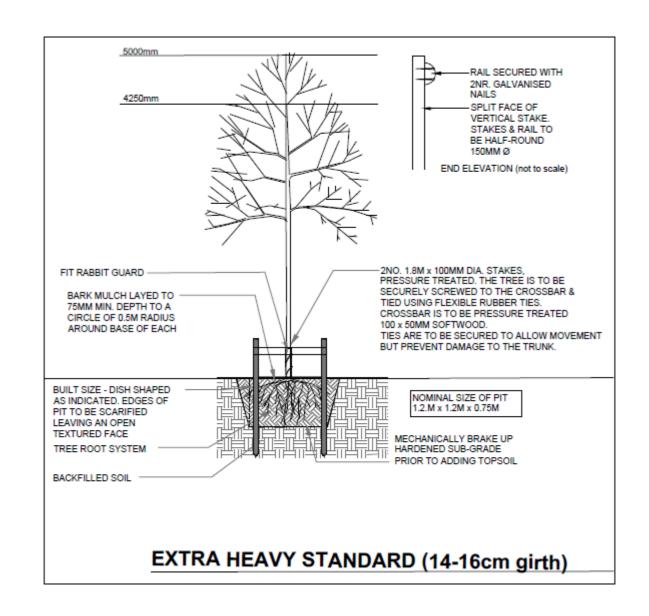
3. ALL CONTAINERISED SHRUB PLANTING MAY BE CARRIED OUT AT ANY TIME OF WHEN SOIL IS NOT FROZEN, WATERLOGGED OR EXCESSIVELY DRY.

PLANTING NOTES:

ALL TREES, SHRUBS AND HEDGEROW PLANTS SHALL COMPLY WITH BS 3936, SPECIFICATION FOR NURSERY STOCK. ALL PRE-PLANTING SITE PREPARATION, PLANTING AND POST PLANTING MAINTENANCE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF BS 4428 (1989) CODE OF PRACTICE FOR GENERAL LANDSCAPE OPERATIONS (EXCLUDING HARD SURFACES).

ALL NEW TREE PLANTING SHALL BE POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 3 OF BS 5837: 2005 TREE IN RELATION TO CONSTRUCTION: RECOMMENDATIONS, WHICH SPECIFIES MINIMUM DISTANCES BETWEEN NEW PLANTING AND STRUCTURES.









Detailed Design

Drainage

SUDS





Swale Locations

Bio-Retention

Swale Tree Pit Locations





Drainage

Swale SUDS





We propose a new habitat to create a

varied & interesting landscape. It shall

& shall be implemented with native

flora, ie. trees & plants & wildflower

take into account the current conditions

Swale provides temporary storage for storm water & reduces peak flows.



Typical swale in dry weather



meadow.

Typical swale in wet weather

Suggested Wild-Flower Mix

Common knapweed Centaura nigra
Ribwort plantain Plantago lanceolata
Red clover Trifolium pratense
Bird's-foot trefoil Lotus comiculatus
Bulbous buttercup Ranunculus bulbosus
Meadow buttercup Ranunculus acris
Lady's-bedstraw Galium verum
Cowslip Primula veris
Oxeye daisy Leucanthemum vulgaris
Yellow rattle Rhinanthus minor
Common sorrel Rumex acetosa
Burnet saxifrage Pimpinella saxifraga
Autumn hawkbit Leontodon autumnalis
Rough hawkbit Leontodon hispidus

Suggested Lowland Meadow Grasses

Crested dog-tail Cynosurus cristatus
Common bent Agrostis capillaris
Sweet vernal-grass Anthoxanthum odoratum
Red fescue Festuca rubra
Smooth meadow-grass Poa pratensis

Suggested Wetland/Marsh Mix

Marsh bedstraw Galium palustre
Greater bird's-foot trefoil Lotus pedunculatus
Sneezewort Achillea ptarmica
Valerian Valeriana officinalis (tall)
Purple loosestrife Lythrum salicaria (tall)
Hemp-agrimony Eupatorium cannabinum (tall)
Marsh violet Viola palustris
Angelica Angelica sylvestris (tall)
Water mint Mentha aquatica
Marsh marigold Caltha palustris
Ragged robin Silene (Lychnis) flos-cuculi
Gypsywort Lycopus europaeus
Meadowsweet Filipendula ulmaria (tall)

PROPOSED MARGINAL PLANTING

The following marginal plants are to be certified native origin, to be collected as either seed or rootstock from the wild & introduced into the wetland area Stream Area.

Yellow flag iris (Iris pseudacorus), Marsh marigold (Caltha palustris), Water plantain (Alisma plantago-aquatica), Water forget-me-not (Myosotis scorpioides), Brooklime (Veronica beccabunga), Bogbean (Menyanthes trifoliata), Ragged robin (Lychnis flos-cuculi).





Drainage

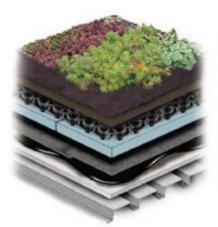
Extensive Green / Sedum Roof

- The root system: Sedum has very shallow roots, a key requirement for an extensive green roof, considering the modest depth of the substrate layer.
- Sedum is also drought-resistant
- Sedum needs relatively little nutrients and maintenance compared to other types of plant
- Sedum is very resilient to diseases and insects
- Sedum is also very adaptable: due to its capacity to adapt its metabolic system in periods of drought, it can survive in extremely dry conditions where other types of plants would die. And furthermore, Sedum recovers remarkably quickly as soon as water becomes available again.



Extensive Vegetation (Sedums, etc.)
Growing Media
Filter Fabric
Moisture Retention / Drainage Panel
Insulation
Root Barrier
Protection Course and Capillary Break
Waterproofing Membrane (hot rubberized asphalt depicted)
Substrate (concrete deck depicted)

Option 1.



Extensive Vegetation (Sedums, etc.)
Growing Media
Filter Fabric
Moisture Retention / Drainage Panel
Insulation
Root Barrier
Protection Course and Capillary Break
Waterproofing Membrane (hot rubberized asphalt depicted)
Substrate (metal deck with gypsum board depicted)

Option 2.





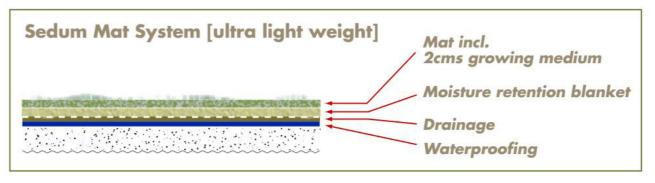
Green Roof/Sedum Roof



Proposed Green Roof Location



2,703m²







Kilternan, County Dublin

Drainage

Intensive Green Roof

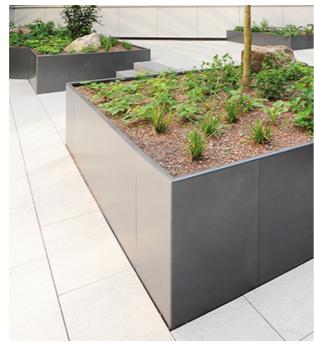
Checklist for Intensive Green Roof

- Mixed Shrub Planting
- Seating
- Planters
- Geotextile
- Soil
- Gravel
- Lighting
- Drainage & irrigation membrane
- Paving flags & pedestals
- Isolating roof membrane
- Glass balustrade



- Stainless steel and aluminum with powder coating;
- All RAL colors possible;
- Aluminum / Weathering steel internal elements.





Richard Brink (DE) Raised Bed Modular System, or similar approved



Omos 's59.2'

- Bead blasted 316 stainless steel;
- Iroko hardwood w/ micro porous stain;
- LxWxH 1860x629x819mm



Integrated Seating
Streetlife 'Mobile Green Isles'



Proposed Green Roof Location



Intensive Green Roof Total 2,849m²



