

LANDSCAPE RATIONALE

April 2022



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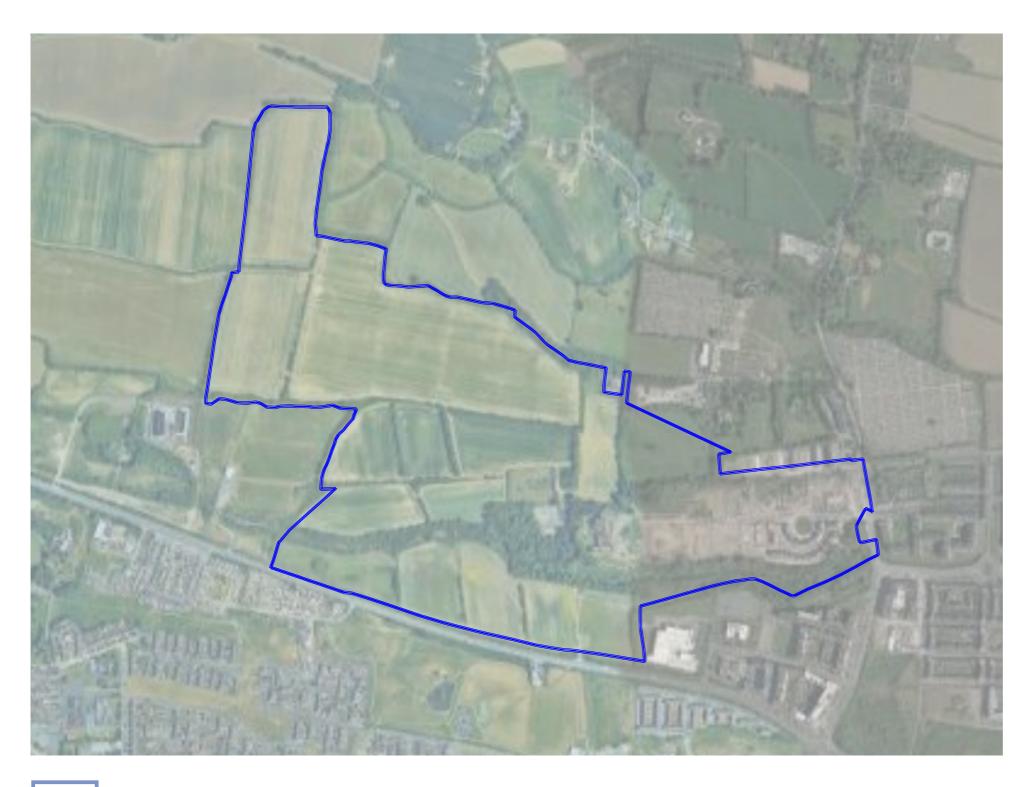


SITE CONTEXT





Site Location



Ronan MacDiarmada & Associates, RMDA Ltd. have been engaged by Gerard Gannon Properties to provide Landscape Architectural Services for the lands at Belcamp Lands.

The Belcamp SHD lands span across two local authorities Dublin City Council and Fingal County Council. They are divided by the Mayne River corridor running from the western side of the site to the eastern side.

RMDA have been appointed to design and enhance the DCC lands on the southern side of the river while TBS (The Big Space) are designing the FCC lands on the northern side. It has been a collaborative process between the two landscape practices to enrich the open space for the benefit of the future residents and establish a neighbourhood that is delivered as one combined development.

We are fortuitous to have unique elements within the Belcamp lands such as the Walled Garden, Belcamp Hall, Washington Monument, the Ice House and the River Mayne Corridor to strengthen our proposed landscape design strategies. Another element of the lands to take into account are earlier phases which have been granted planning permission, are under construction, or are subject to current/forthcoming planning applications to FCC.





Land Ownership Outline

SITE ANALYSIS



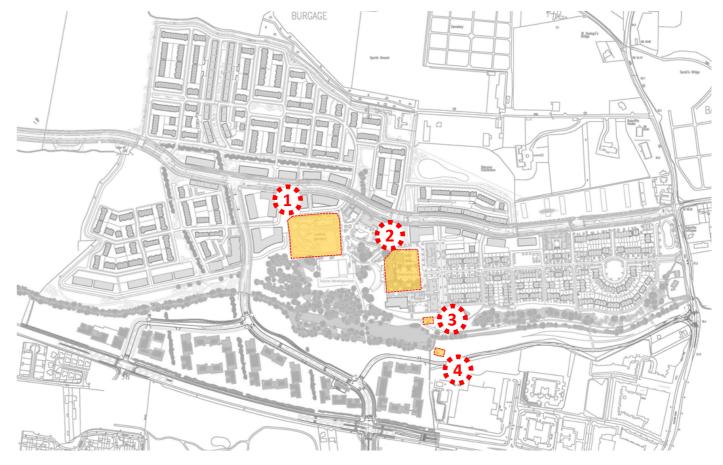


Constraints

Existing Cultural, Historical, Landscape Features



River Mayne Corridor Habitat Space



Central Historic Landscape

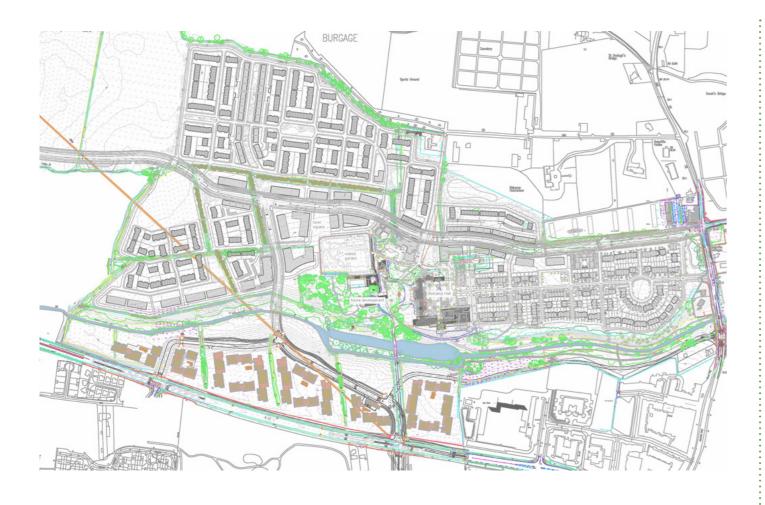
- 1. Walled Garden
- 2. Belcamp Hall
- 3. Washington Monument
- 4. Ice House



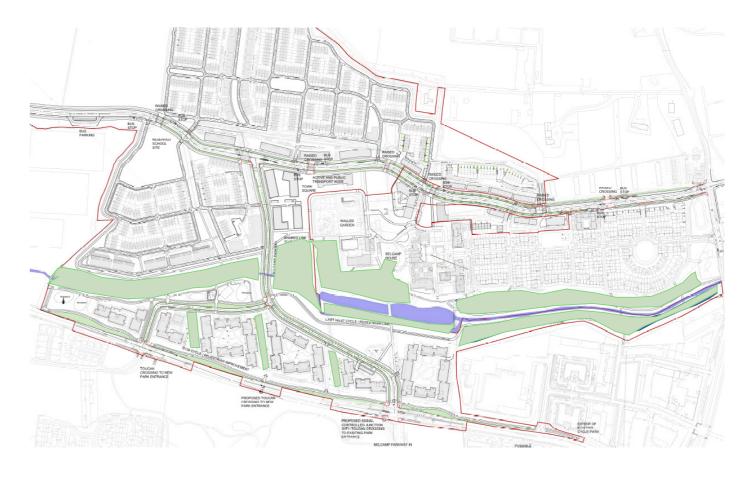


Constraints

Environmental Factors



Site Topography



Site Vegetation





Existing Open Space



- 1. Coolock Lane Park
- 2. Belcamp Park
- 3. Stardust Memorial Park
- 4. Craobh Ciarán GAA Grounds
- 5. Innisfails GAA Grounds
- 6. Darndale Park
- 7. O'Tooles GAA Ground
- 8. Donahies Field
- 9. Balgriffin Park

- 10. Grangemore Park
- 11. Father Collins Park.
- 12. Beltree Park.
- 13. Donaghmede Park
- 14. Marrsfield Linear Park
- 15. Baldoyle Nature Reserve



DCC Lands – SHD Application



FCC Lands – SHD Application



Separate Application





Existing Site

Photos



1.



2.





Aerial showing location of images





5.





DESIGN PROPOSAL





Belcamp SHD Plan

Overview



Landscape Masterplan

Overview

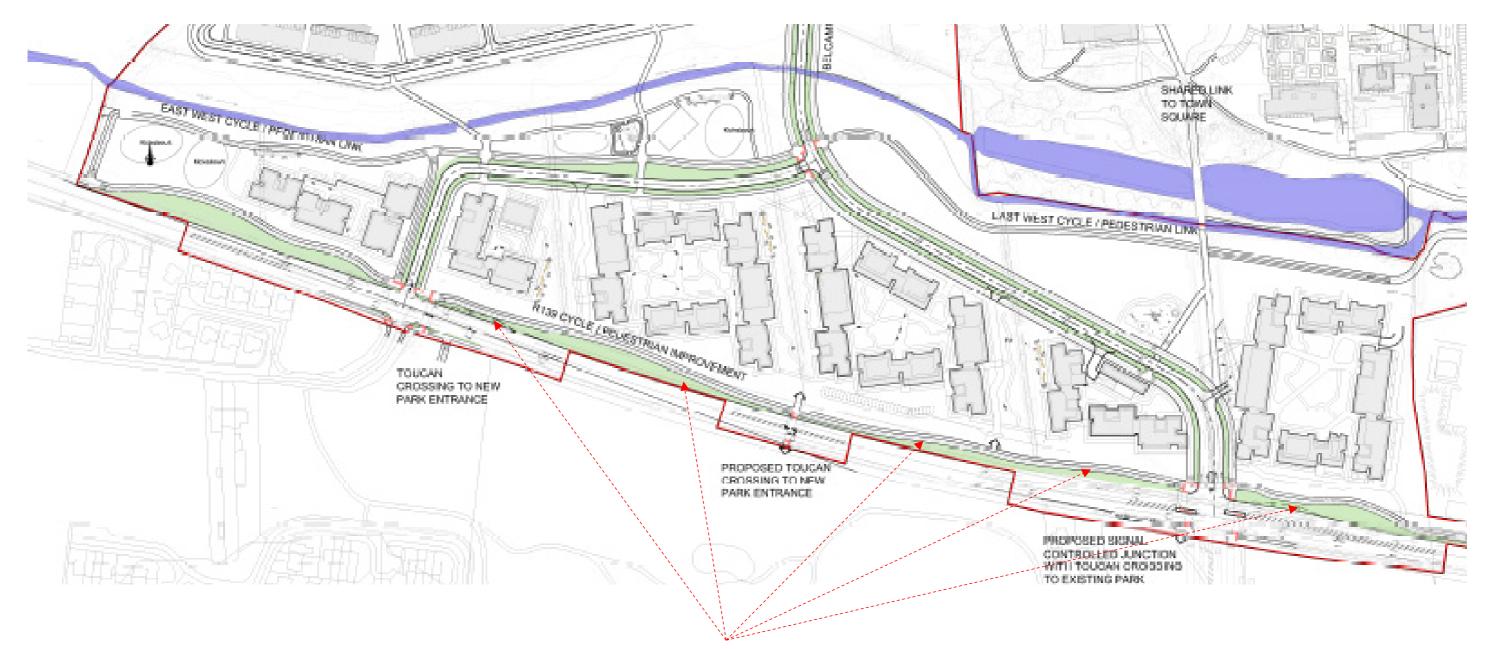








Previous Proposal

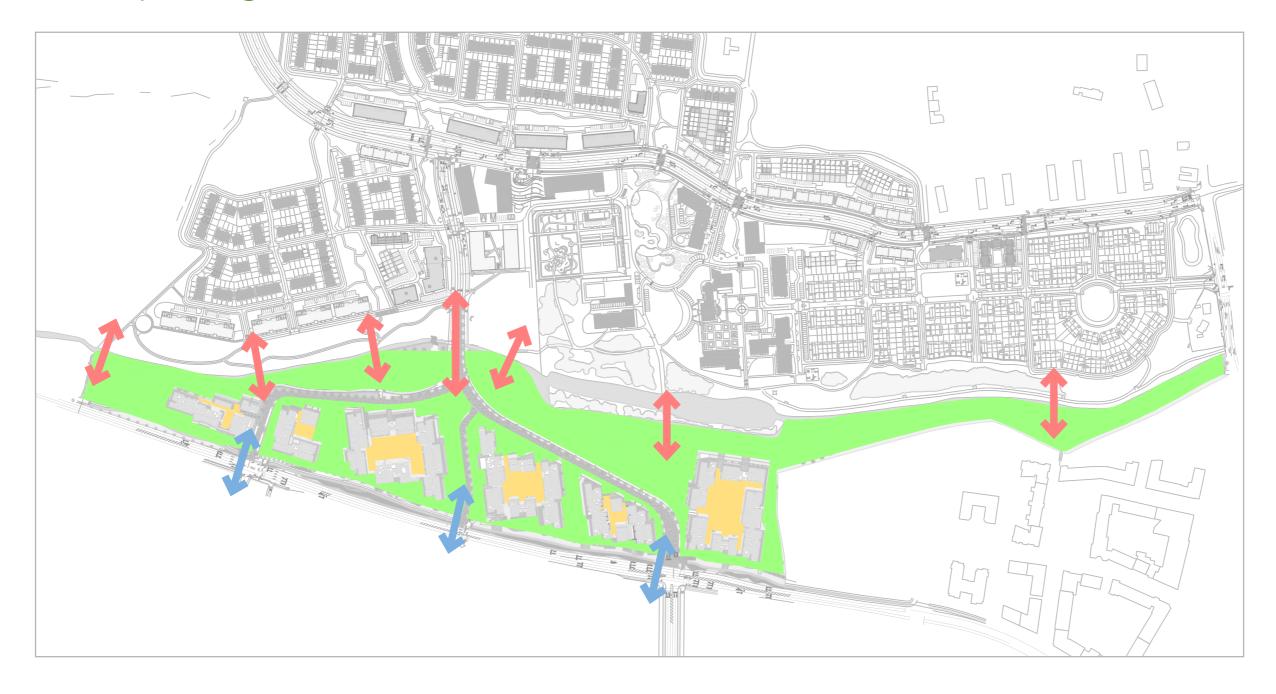


Existing Hedgerows retained along R139





Open Space



Public Open Space

 \iff

Connections between DCC & FCC Lands

Communal Open Space



Connections to existing Darndale Park





Open Space Categories



A. Primary - Class 1
Parkland/Habitat Area - 58,887m²

A. Primary - Class 1
Urban Plaza & Pocket Parks - 16,983m²

B. Secondary - Class 2 Street Frontage - 12,046m²

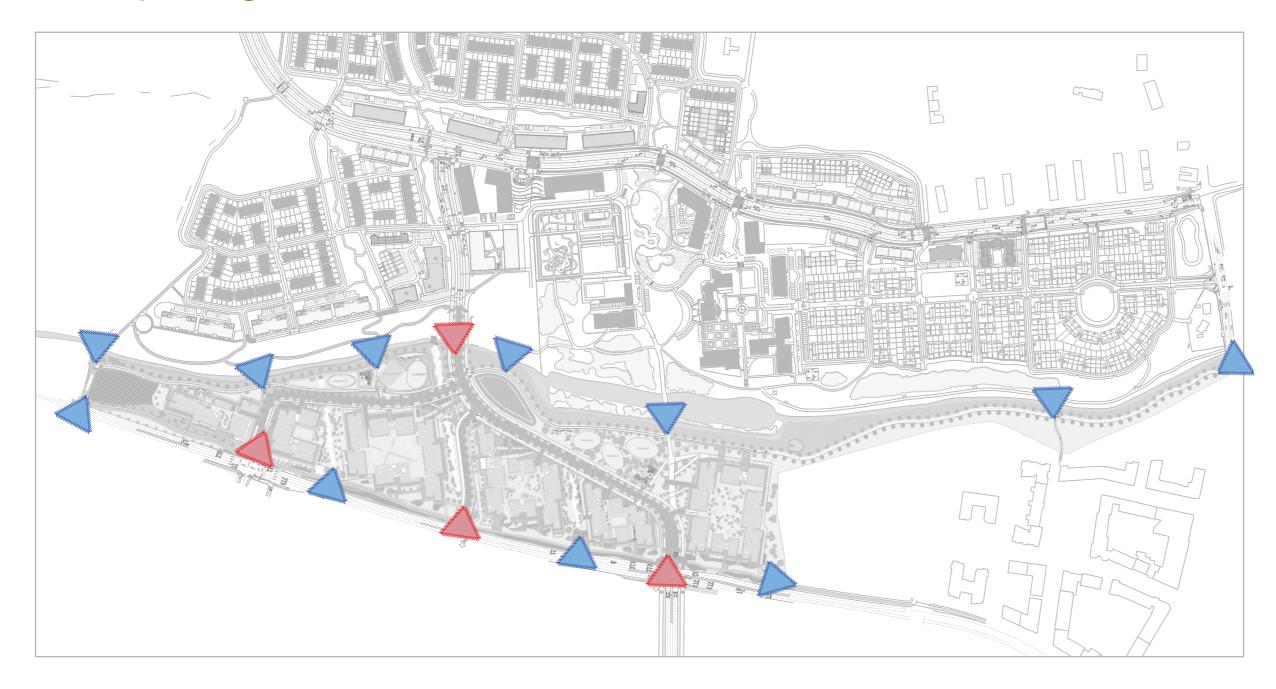
C. Tertiary - Class 3 Communal - 8,480m²

Total Public Open Space - 96,396m²





Node Areas





Vehicle Entrance Node

Announcing change of Area & Change of Landscape

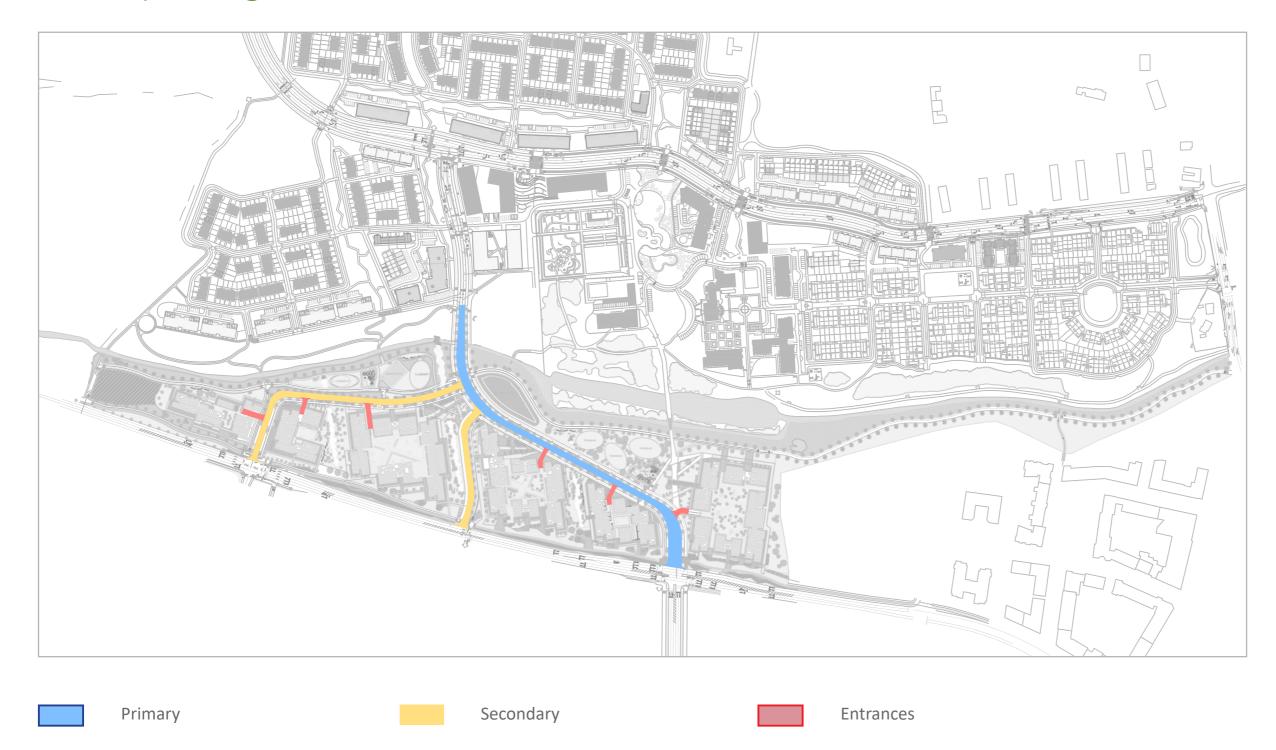


Pedestrian Entrance Node

Announcing change of Area & Change of Landscape

Belcamp SHD, Dublin 17

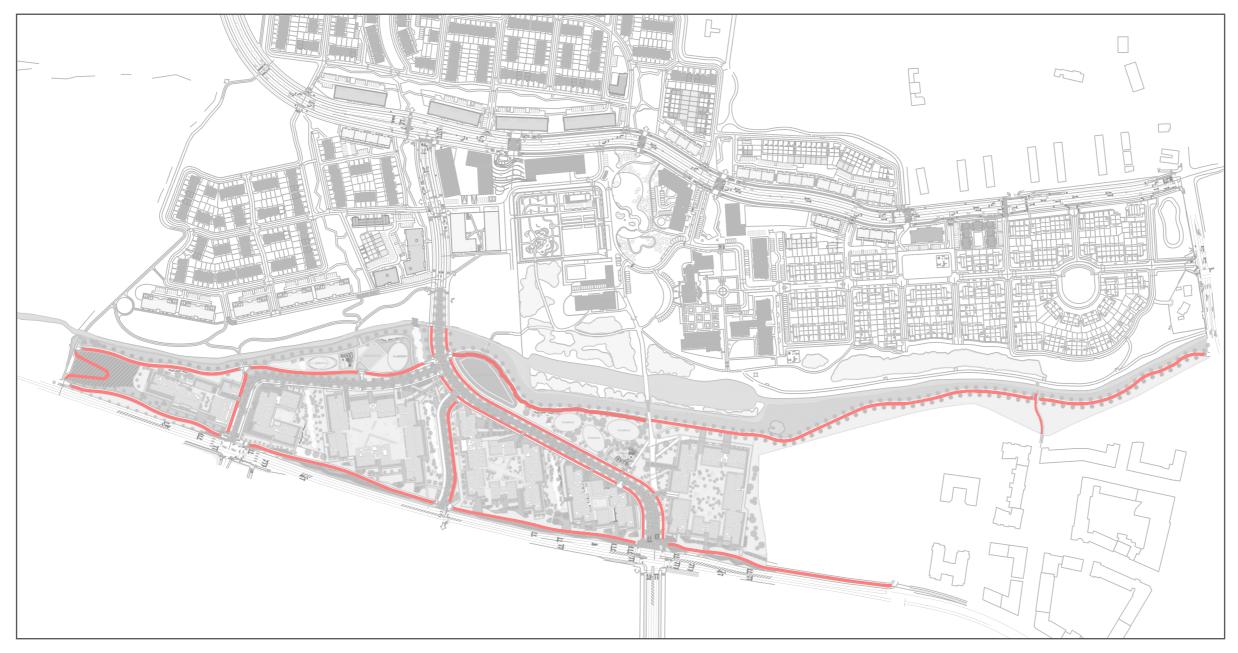
Road Hierarchy







Cycle Paths



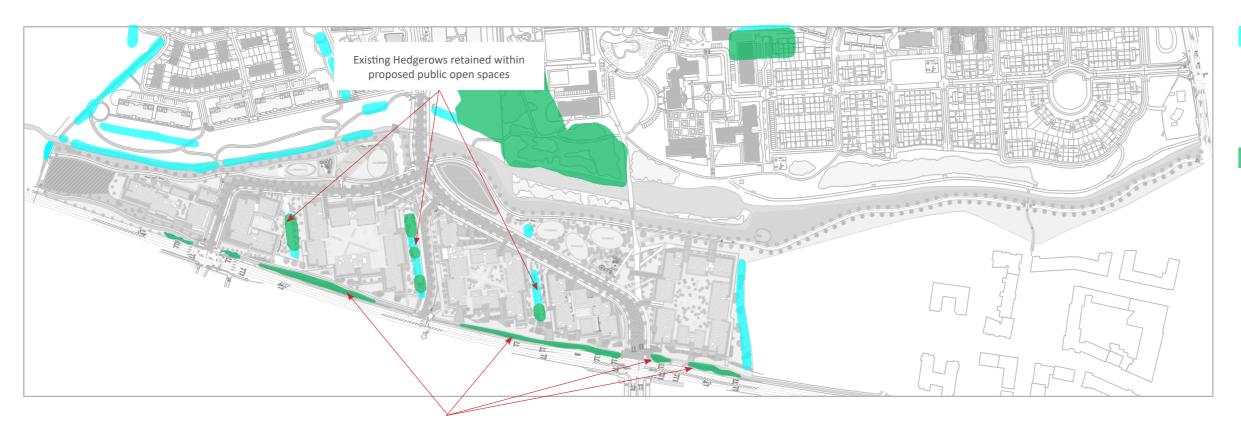






Arboricultural Impact

Retention of Existing Hedge



Existing Hedgerow to be retained, augment where necessary with native species.

Existing Woodland Hedgerow to be retained

Hedgerow pruned to 1m height and shaped along the R139



Existing Hedgerow to be retained, augment where necessary with native species. Hedgerow pruned to 1m height and shaped along the R139

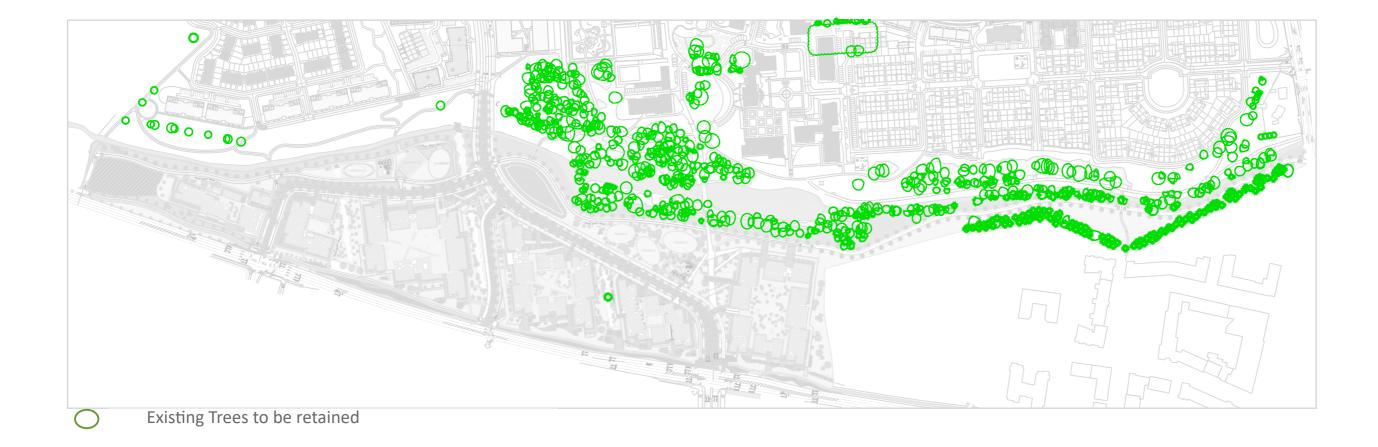
76.6% of hedegrows retained, approximately. (1892/2467 linear metre)





Arboricultural Impact

Retention of Existing Trees







Primary Open Space - Parkland/Habitat















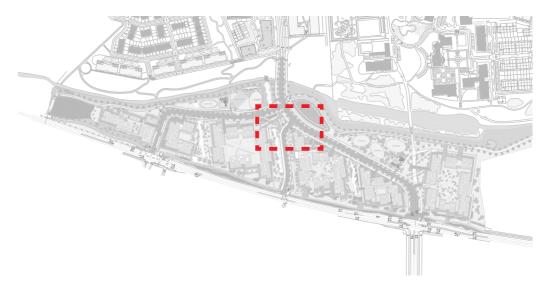
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Indicative Images

Primary Open Space - Urban Plaza







Location Plan

Reference Images





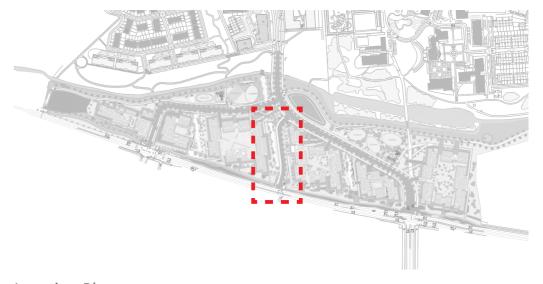




Primary Open Space - Pocket Park







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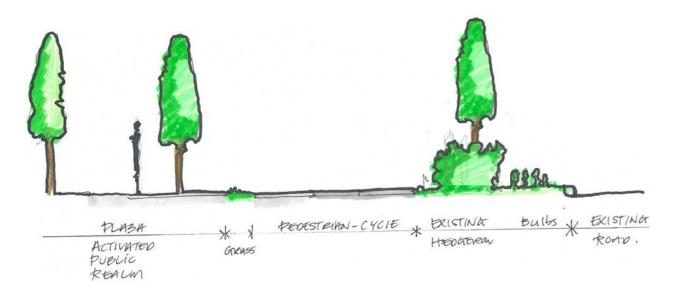
Location Plan

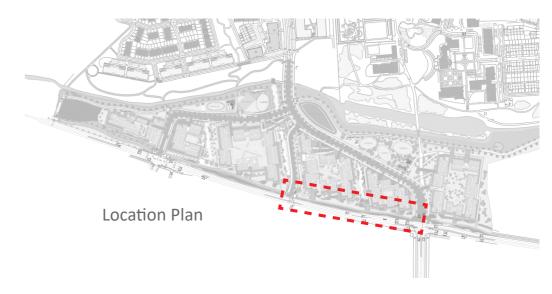




Indicative Images

Secondary Open Space - Street Frontage - R139

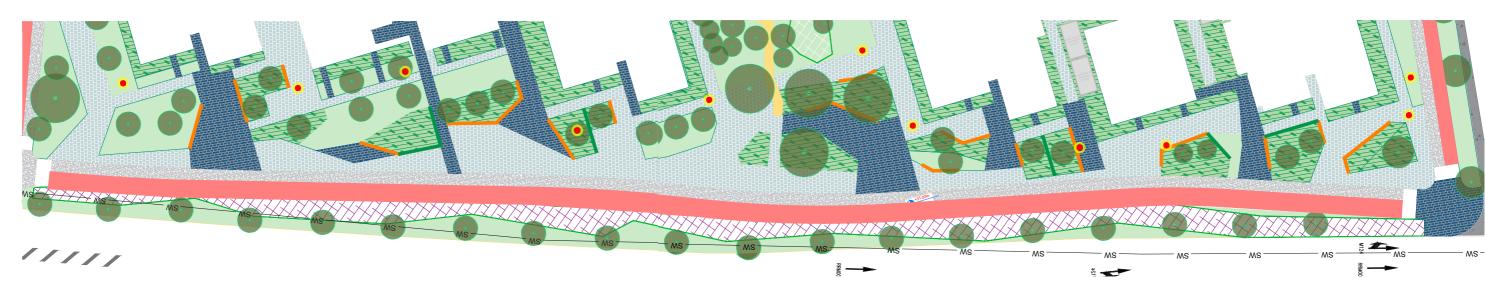






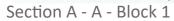






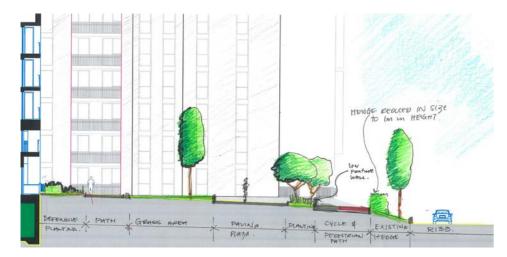
Secondary Open Space - Street Frontage - R139





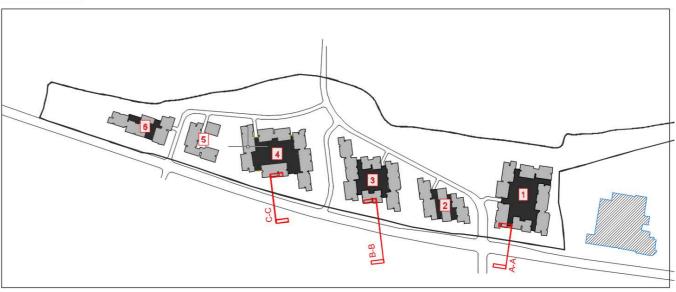


Section B - B - Block 3



Section C - C - Block 4







Corner of Block 1 - Looking Norh East





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Design Proposal

Landscape Detail Areas Street Frontage - Alternative Options





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Ronan Mac Diarmada & Associates

Landscape Architecture

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Wetland Area













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Tertiary Open Space - Communal Area







Location Plan



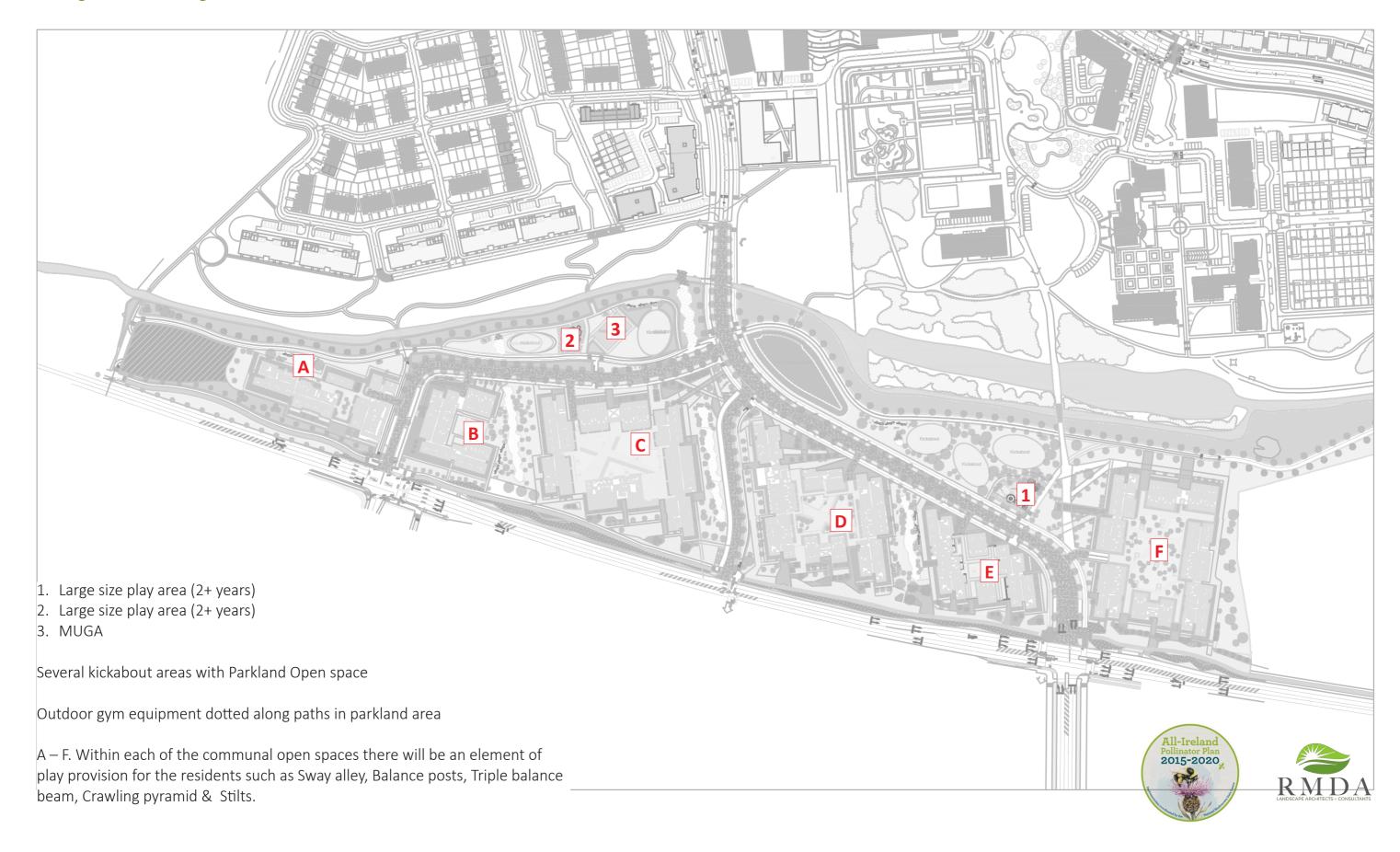






Play Amenity

Play/Gym / Calisthetic Equipment



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Play Amenity

Structured 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 senses

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 appeal to the senses.

Experiencing change in the natural and built environment. Experiencing the seasons The contrast between open space and paving provides 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. Kick about spaces also encourage interaction

Playing with identity

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

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.

We are proposing a natural playground.

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 More sustainable Blend in with natural environment – slopes etc











Please find drawings with proposed Play space, we have developed the play space as per the Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities. In this we have provided for approximately 100 sq. metres of play space per communal open space.

We are proposing two large public play areas within the parkland. Its intend to provide between 15 - 20 items of play. We have taken the quantum from 4.13 of the Guidelines.

Within small play spaces (about 85 – 100 sq. metres) for the specific needs of toddlers and children up to the age of six, with suitable play equipment, seating for parents/guardians, and within sight of the apartment building, in a scheme that includes 25 or more units with two or more bedrooms; and

Within play areas (200–400 sq. metres) for older children and young teenagers, in a scheme that includes 100 or more apartments with two or more bedrooms.

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Play Amenity

Communal Play Items & Outdoor Gym Equipment





Play & Stay

Talk & Tumble with Tunnel







Home & Garden

House Slide

Double Toddlers Castle















Parallel Bars



Push Up Bars





LANDSCAPE FEATURES





Hard Landscape Palette

Surfaces

PAVING PALETTE



Silver 240 x 160, 160 x 160x 50mm (pedestrian) 80mm (traffic)



Charcoal 480 x 120, 360 x 120 x 50mm



Silver surface drain



Permeable Paving for Car Parking 200x100x60 Rustic with silver border

IN-SITU PALETTE



Ballylusk Dust Path (pedestrian path)



Coloured tarmac (cycle path)



Graphite 300x200x60mm



Brushed Concrete with trowel edge finish (streets)



Rocks



Tree Trunk

Hard Landscape Palette

Finishes







Wood Seating Bollards Litter Bins







Bike Stands Tree Grille Planter Walls

Proposed Planting

Street and Open Space Trees



Prunus avium 'Plena'



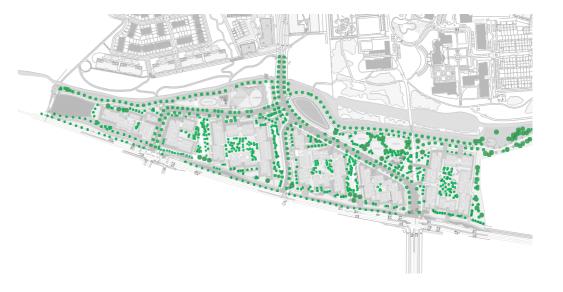
Acer griseum 'Multi-stem'



Fagus sylvatica 'Dawyck'



Betula jacquemontii multi stem



Proposed Trees Location



Acer campestre 'Elsrijk' Underplanted with



Betula pendula



Carpinus betulus 'Frans fontaine'



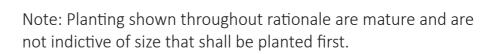
Corylus colurna



Pyrus calleryana 'Chanticleer'



Amelanchier lamerkii







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Proposed Planting Shrubs





Libertia grandiflora

Proposed Shrub Location













Prunus 'Otto luyken'



Lavandula angustifolia



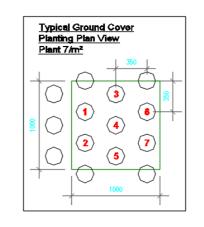
Hypericum hidcote



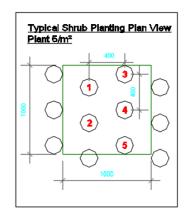
Astellia 'Silver Spear'



Aucuba japonica



Miscanthus sinensis



Agapanthus 'Blue Giant'

Kniphofia 'Royal standard'

Nerine bowdenii

Sedum spectabile

Belcamp SHD, Dublin 17

Proposed Planting

Wildflower Mix



Ribwort plantain Plantago lanceolata



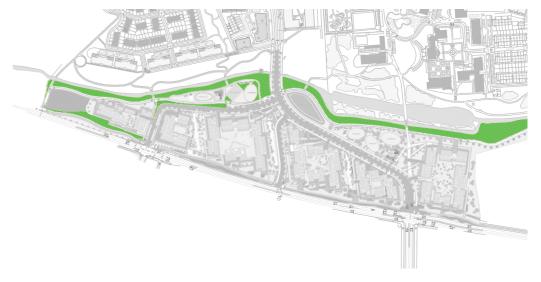
Red clover Trifolium pratense



Bird's-foot trefoil Lotus corniculatus



Bulbous buttercup Ranunculus bulbosus



Proposed Wildflower Location



Meadow buttercup Ranunculus acris



Lady's-bedstraw Galium verum



Cowslip Primula veris



Oxeye daisy Leucanthemum vulgaris



Yellow Rattle Rhinanthus minor

Note: The Wildflower Meadow will need to be cut once in Autumn (Late August/Early September) with a tractor and mower. Leave the mowings for a few days to allow seed to drop to the ground. Then it should be baled and bales removed.



Common knapweed Centaura nigra



Common sorrel Rumex acetosa



Burnet saxifrage Pimpinella saxifraga



Autumn hawkbit Leontodon autumnalis



Rough hawkbit Leontodon hispidus





Proposed Planting

Detention Basin - Wetland Habitat



Marsh bedstraw Galium palustre



Greater bird's-foot trefoil Lotus pedunculatus



Sneezewort Achillea ptarmica



Proposed Wetland Habitat Location



Purple loosestrife Lythrum salicaria (tall)



Hemp-agrimony
Eupatorium cannabinum (tall)



Marsh violet Viola palustris



Angelica sylvestris (tall)



Water mint Mentha aquatica



Marsh marigold Caltha palustris



Ragged robin Silene (Lychnis) flos-cuculi



Gypsywort Lycopus europaeus



Meadowsweet Filipendula ulmaria (tall)



Valerian Valeriana officinalis (tall)

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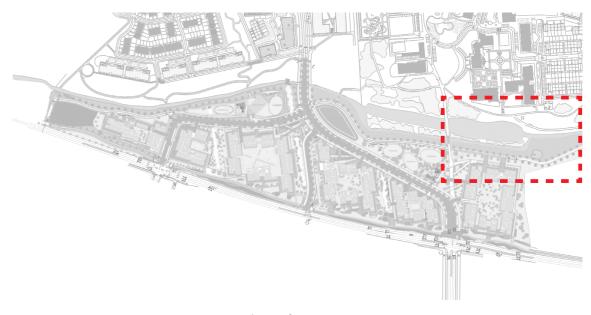
Landscape Treatments

Wetland Walkway

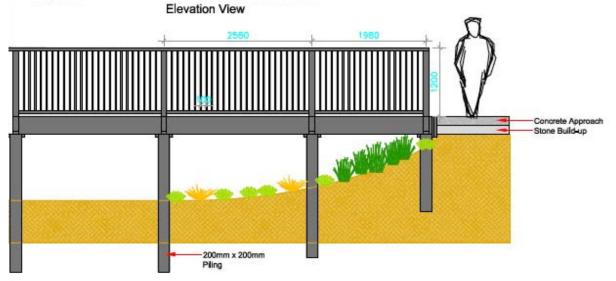


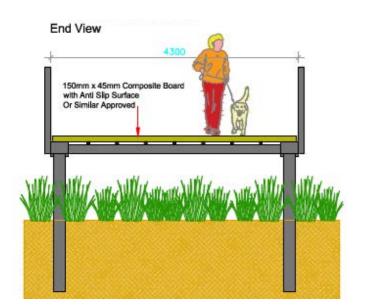


STEEL REINFORCED BRIDGE SECTION



Location Plan











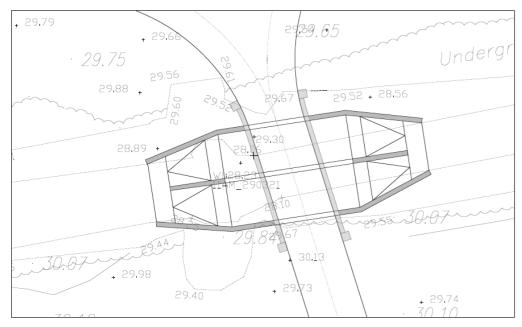
Indicative Images

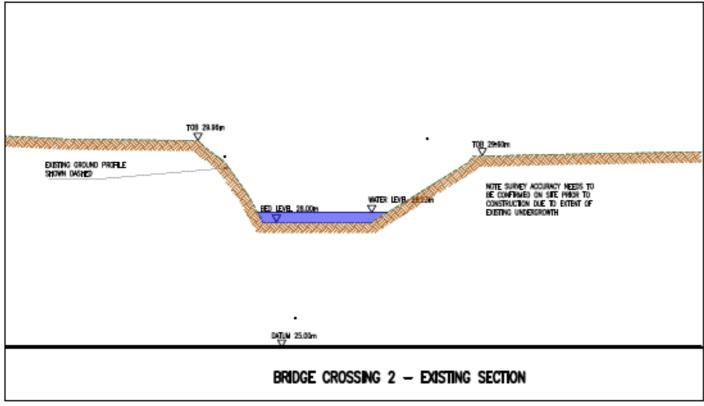


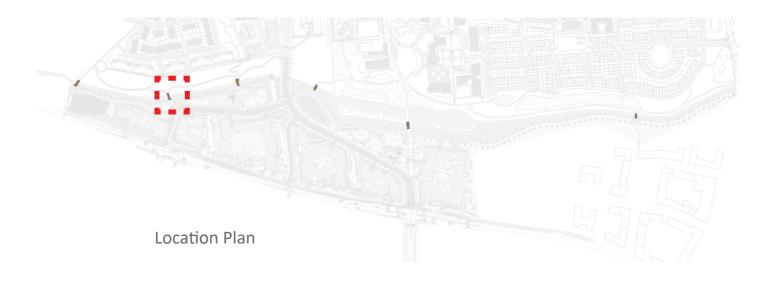


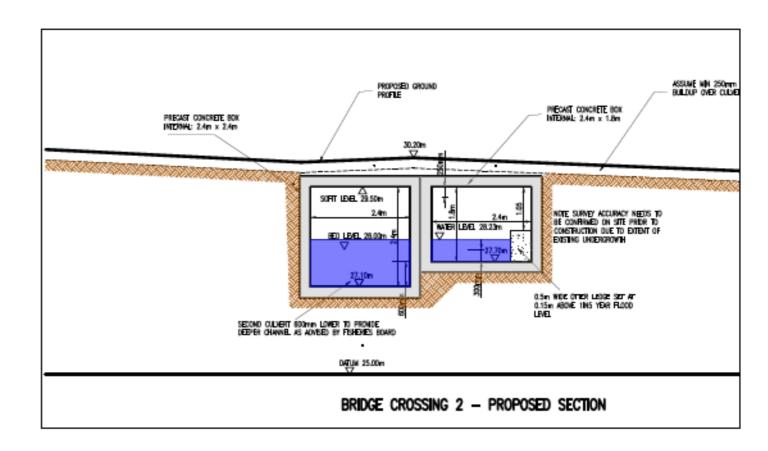


Landscape Treatments Bridge Crossing









Excerpt from Engineer's drawing no. 19-114-P1160
'River Mayne Bridge Crossings Sheet 1'





Landscape Treatments

Public Art / Sculpture



Suggested Location of Public Art Piece/Sculpture









The art piece is to be viewed by all, both the future residents of the development and the wider public who will make use of the proposed facilities' within the Urban Plaza.





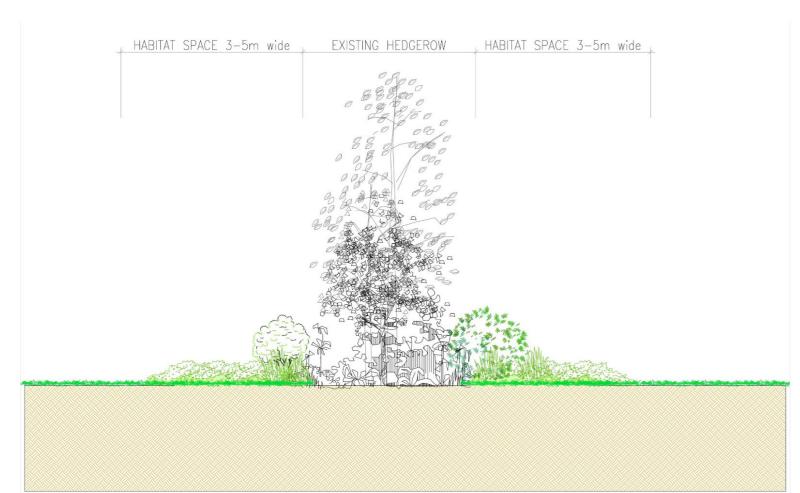
DETAILED DESIGN





Drainage

- SUDs & Landscape Strategy







Where detention basins are required and located within the central open space areas, the south facing aspects will be terraced while the north facing aspects will be sloped with a 1:6 gradient. Side slopes will receive a Parkland grass mix, requiring a less intensive maintenance regime.

The creation of Habitat spaces along the retained hedgerows for birds, insects, badgers & bats is a vital element to the Green Infrastructure in this development. These areas will not be mown or sprayed so that wildlife can thrive uninterrupted by humans and create a stronger biodiversity within the development.

Proposed new integrated SUDS using the landscape network.





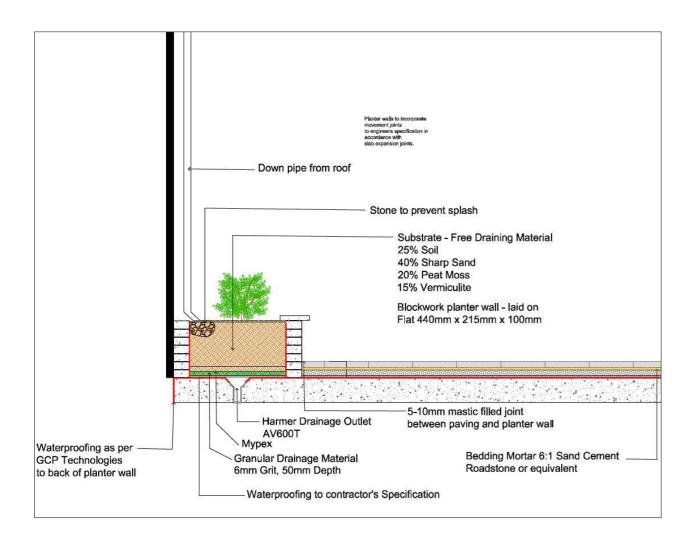






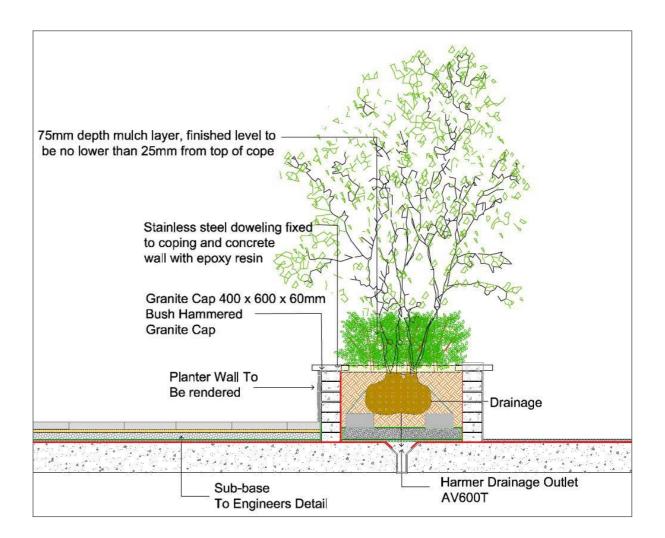
Drainage

Rain Garden



- Provides treatment at source
- Provides treatment of water, cleaning and reducing amount of hydrocarbons.
- Plants soak up excess water
- Rain gardens to provide treatment of water from roof.

Planter Walls











Drainage

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.



Green Roof/Sedum Roof





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.



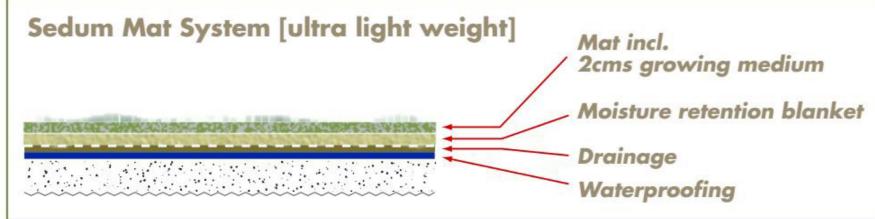
Extensive Vegetation (Sedums, etc.)
Growing Media
Filter Fabric
Moisture Retention / Drainage Panel
Insulation
Root Barrier
Protection Course and Capillary Break
Waterproofing Membrane (hot rubberized asphalt depicted)
Substrate (metal deck with gypsum board depicted)

Option 2.

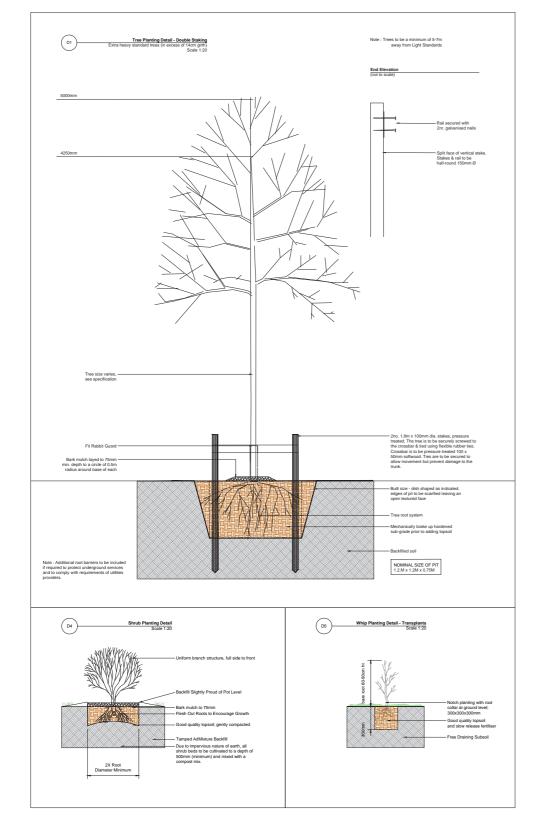


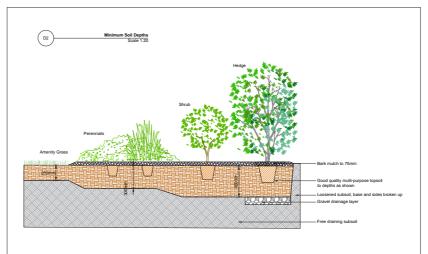


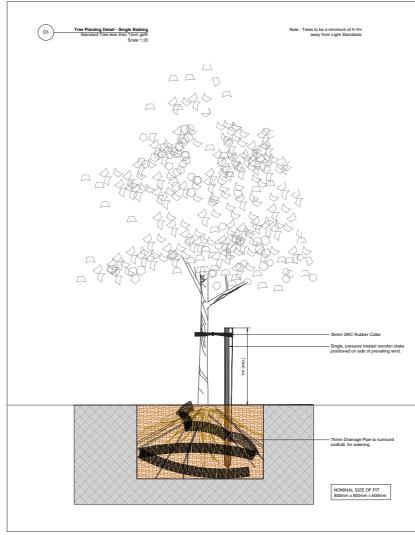


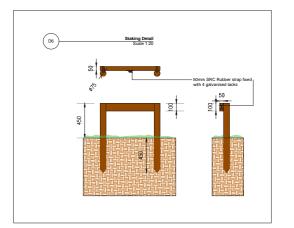


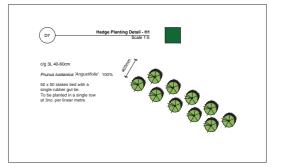
Soft Landscape Planting Details















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CONCLUSION





We have provided several distinct landscape areas which create a series of coherent and interlinked spaces that promote permeability and promote a varied and interesting landscape that shall provide amenity at all levels for all future residents. The cohesive approach to the landscape will provide a series of landscape spaces which responded to the demands of residential occupants. The Promoters desire is to create a sense of place and a high quality public realm environment. The landscaped spaces will promote permeability and activity, suitable for all age groups that will benefit both the residents of the new scheme and the wider community in the vicinity of Belcamp as a whole.















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