Landscape Rationale

To be read in conjunction with landscape drawings

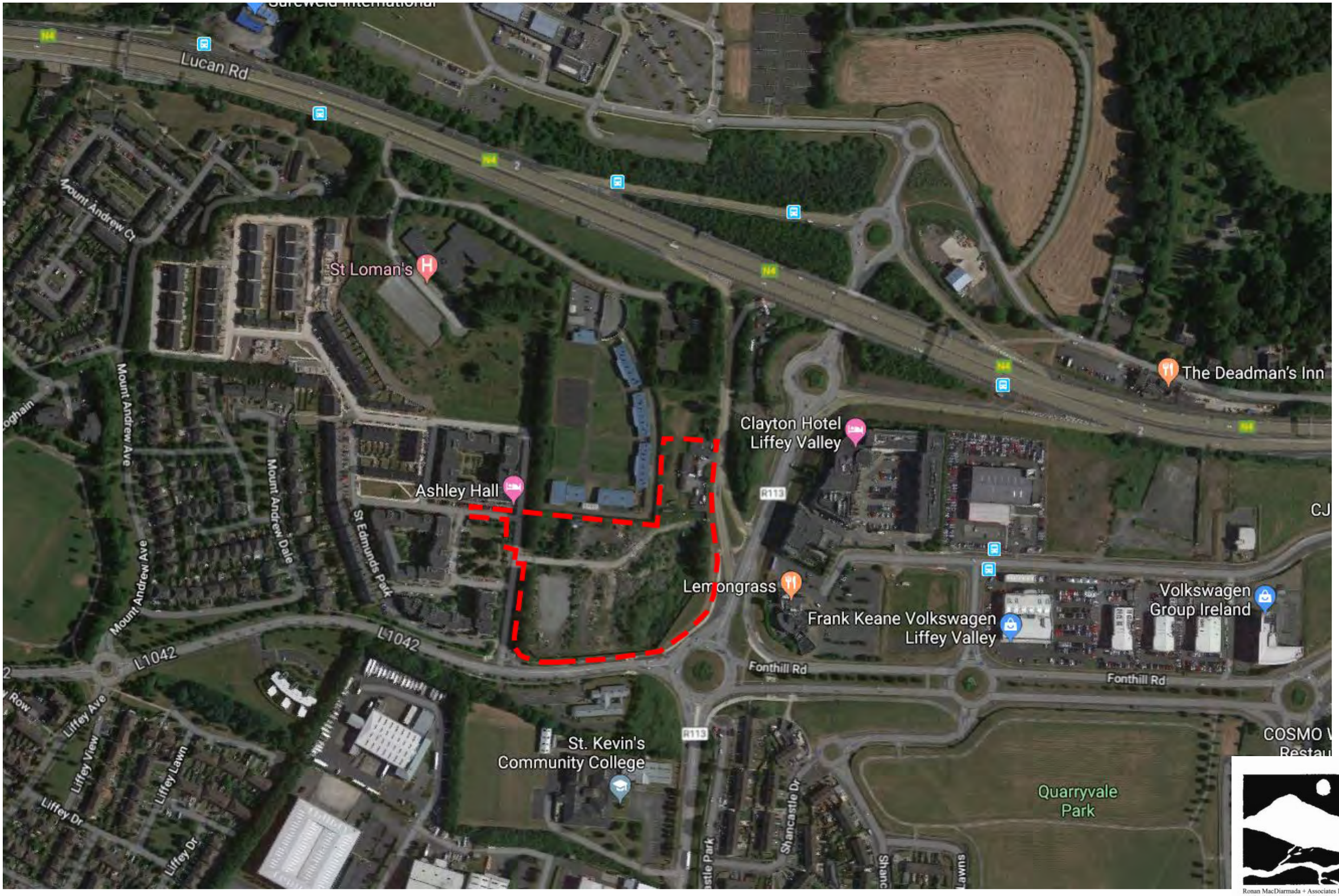
Ronan Mac Diarmada & Associates

Landscape Architects & Consultants

Proposed Development
St. Edmunds, Palmerstown
(SHD)

St. Edmunds

Site Context – Surrounding Location



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St. Edmunds

Landscape Masterplan SHD

(Before : Compliance based on Grant of permission

Terracing and Signage to SDCC lands

(Proposed : Initial SHD Layout)

Existing Slopes used and New trees implemented

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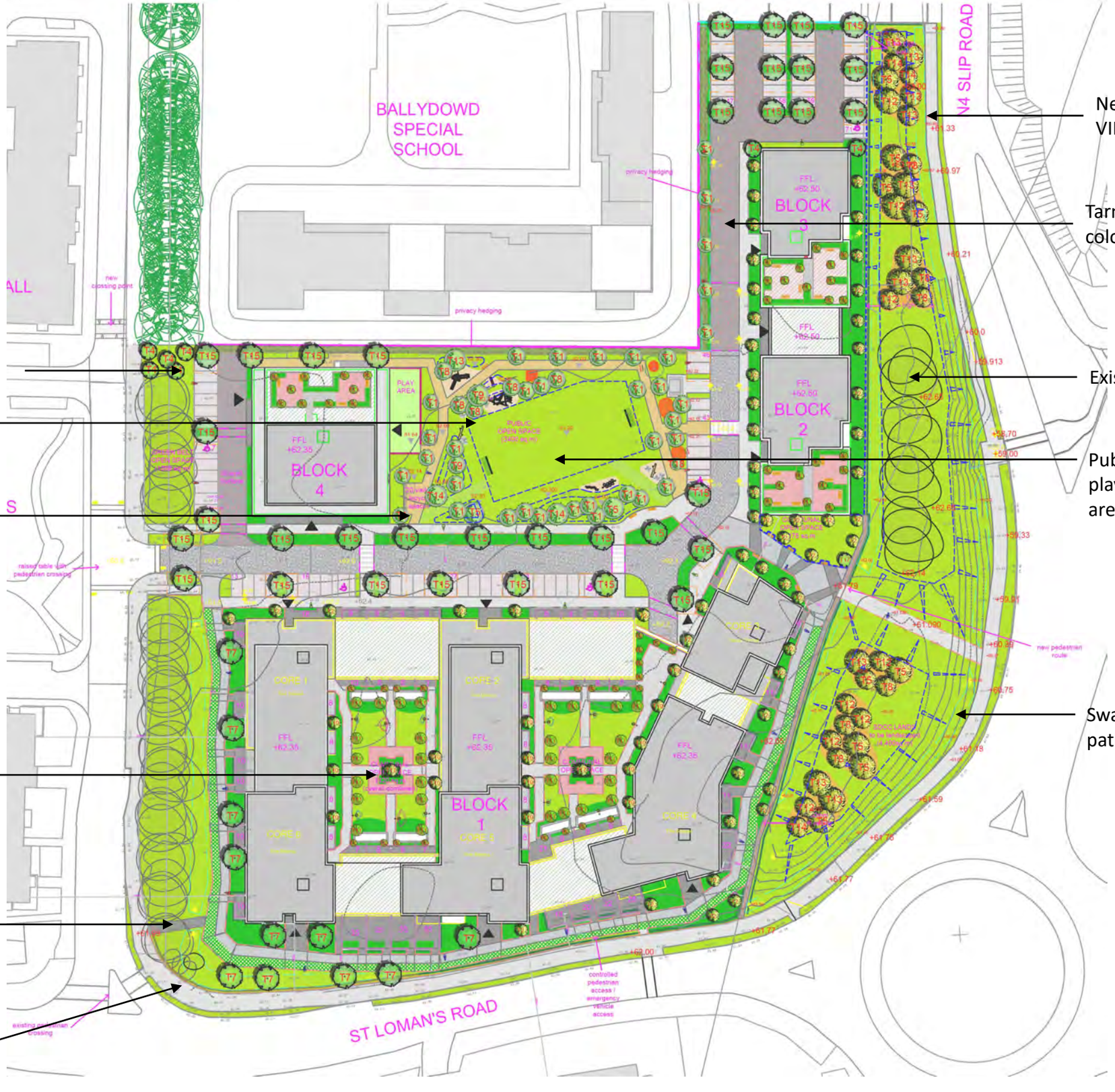
Landscape Masterplan SHD Proposed



New Planting to supplement removal of 3no. Existing trees

Play items located around public open space with gentle mounding and rocks

Resin Bound Path

Communal Courtyard

Pedestrian & Emergency access only

Existing Railing and Hedge

New path to Part VIII of scheme

Tarmac with colour chip

Existing trees

Public Open Space with play items & kickabout area

Swale along existing path

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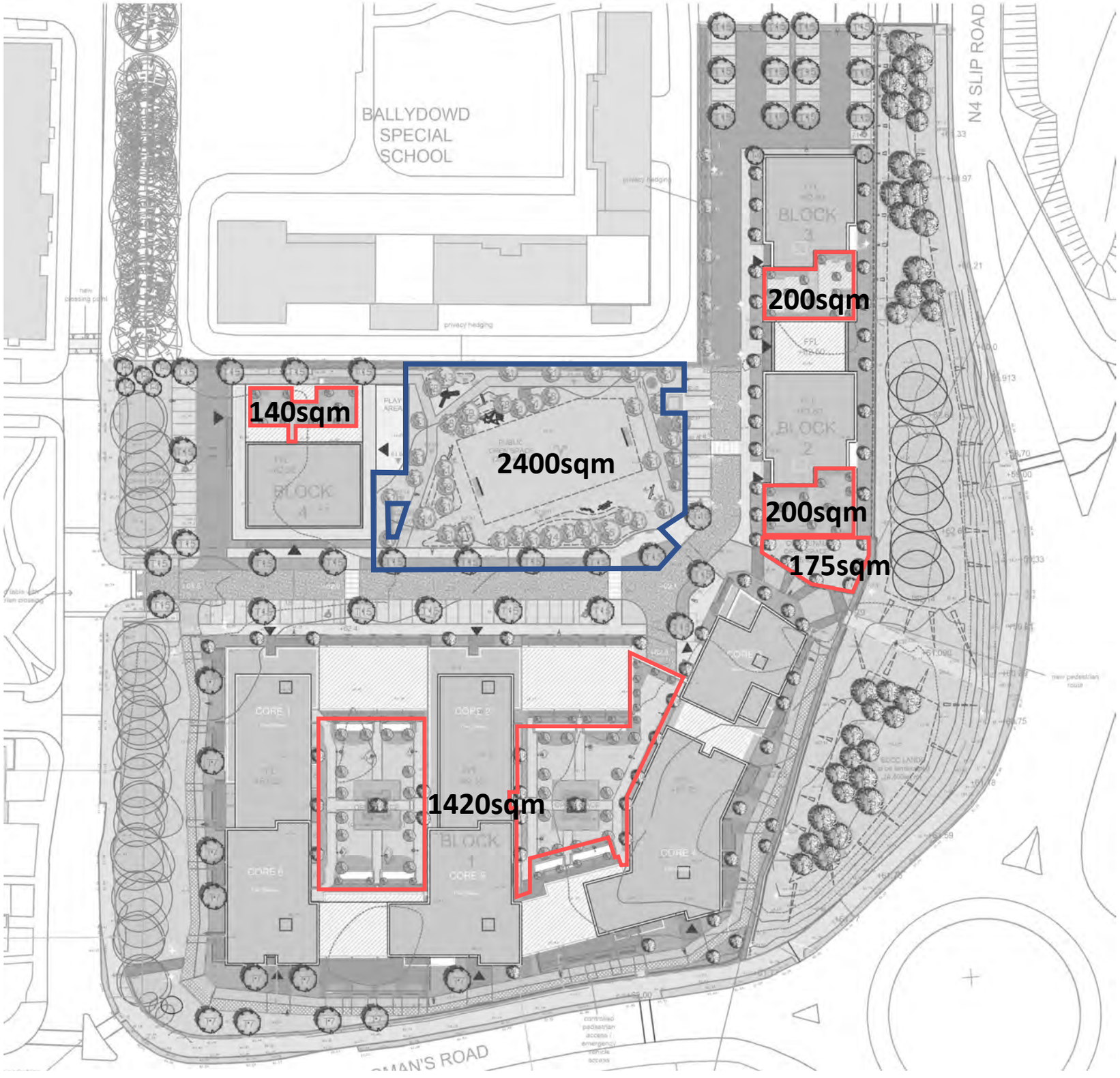
Open Space & Communal Space



Public Open Space Breakdown as per Architect*

PUBLIC OPEN SPACE

GROSS SITE AREA (Including SDCC Lands &OMC lands): **27249sqm - 2.72 ha**
NET SITE AREA: **20688sqm - 2.06 ha**

Public Open Space provided:	2400 sqm (11.6%)
Communal Open Space provided:	
BLOCK 1	1420 sqm
BLOCK 2	200 sqm
SHARED BETWEEN BLOCK 1 & 2	175 sqm
BLOCK 3	200 sqm
BLOCK 4	140 sqm

Communal Open Space

Open Space

The Quality, functionality and usability of the open space has been developed with the end user as the focal point.

It has been developed to provide a wide range of amenity and activity on the main open space.

A large kick about with goal posts on either end is proposed, a number of play items for children aged 2 – 12 years old are also included.

A number of natural play items, rocks and tree trunks have been located along with the slopes and mounds proposed for the open space.

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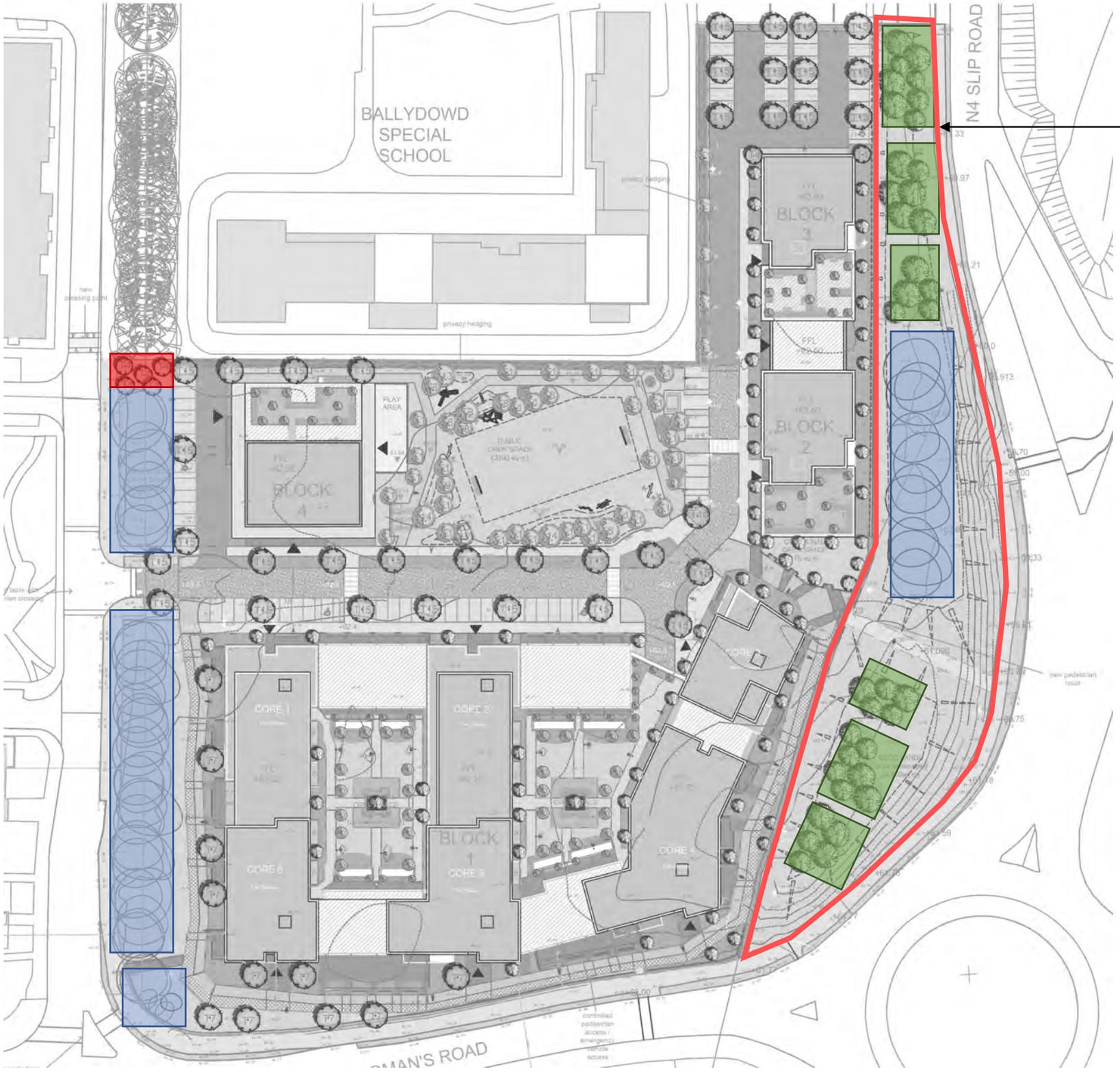
Existing Trees & Proposed Trees



SDCC Lands

3 no. Trees to be removed and new trees implanted during construction

Existing trees to be retained

New Native Tree Planting

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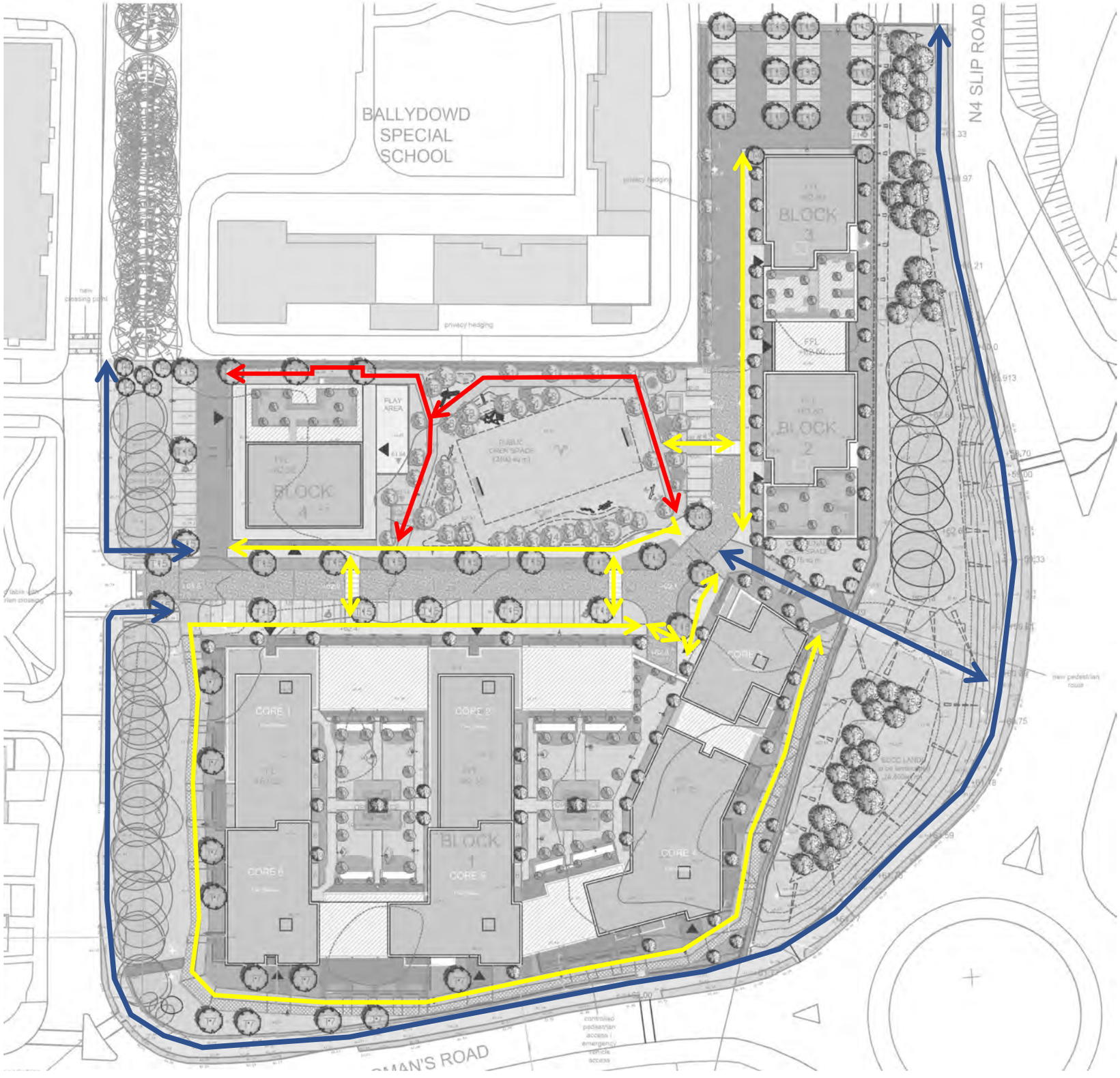
Pedestrian Linkage through Development



External link to development

Internal green link for development

Amenity link through open space

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Landscape Masterplan

Road Treatment

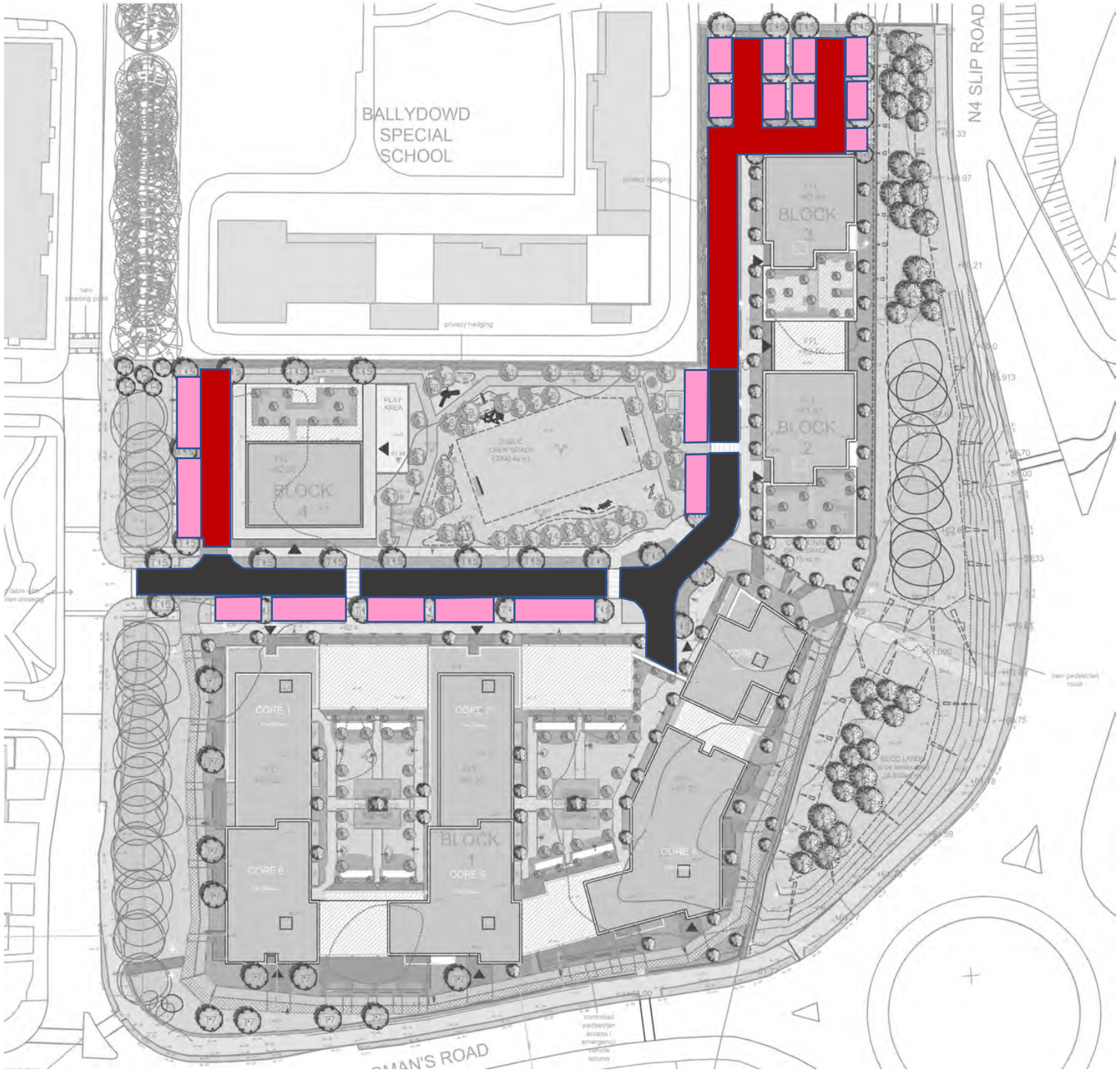
Tarmacadam

Rustic Paving Block (200x100x80mm)

Tarmacadam with colour chip

Tarmacadam with colour chip

Rustic Paving Block to on street parking



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St. Edmunds

Landscape Masterplan

Hardscape Treatment (or similar approved)

- Heather brick paving 200x50mm
- Silver paving 240x160 & 160x160mm
- Natural grey paving 200x100mm
- Recon granite flag paving 600x300mm

Heather paving

Silver paving

Natural Grey paving

Recon granite paving

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St. Edmunds

Landscape Masterplan

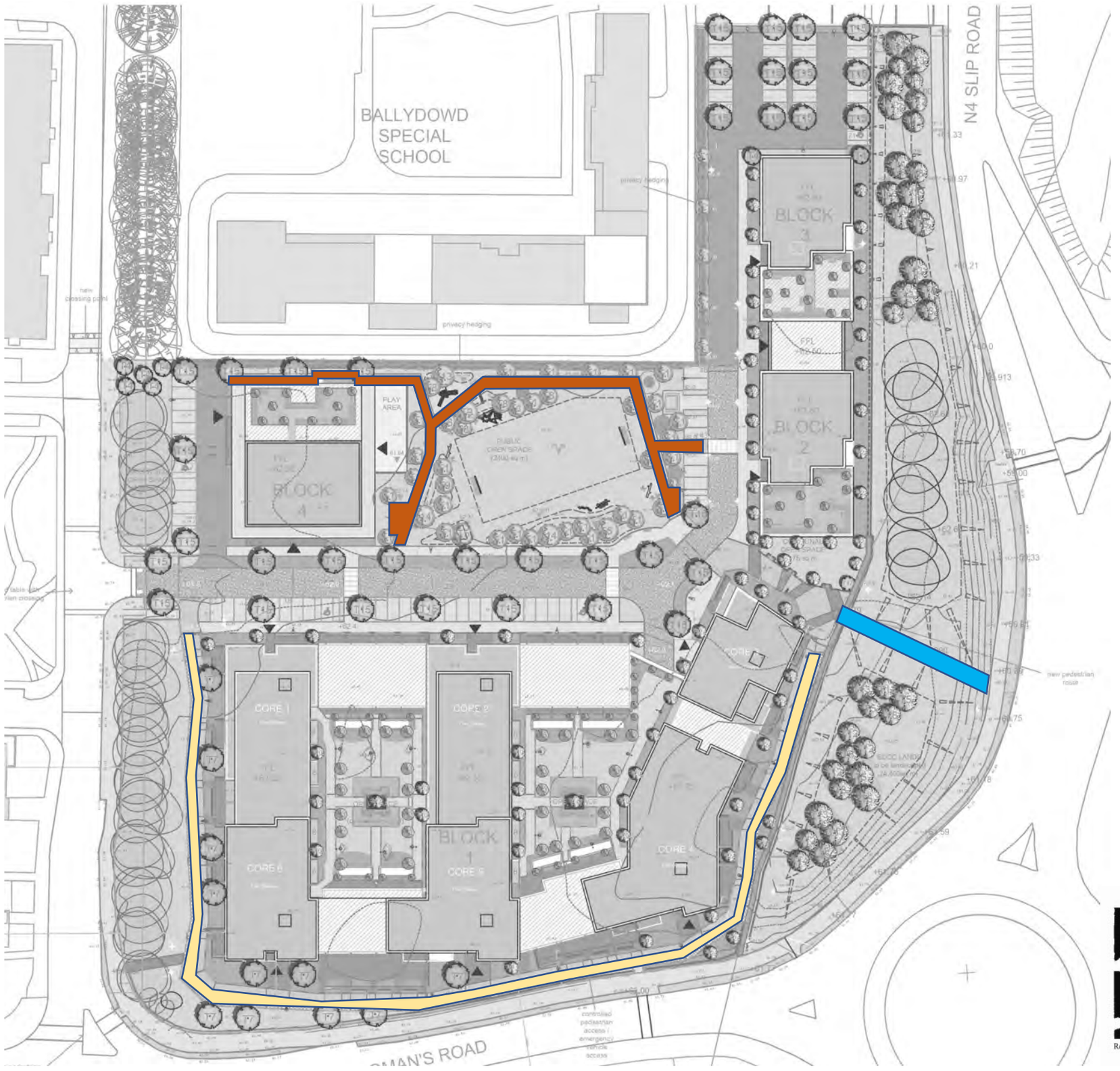
Path Treatment (or similar approved)

- Resin Bond path
- Concrete path
- Grasscrete – planted with Armeria maritima

Beige Tarmac

Concrete Path to Open Space

Grasscrete planted with Armeria maritima



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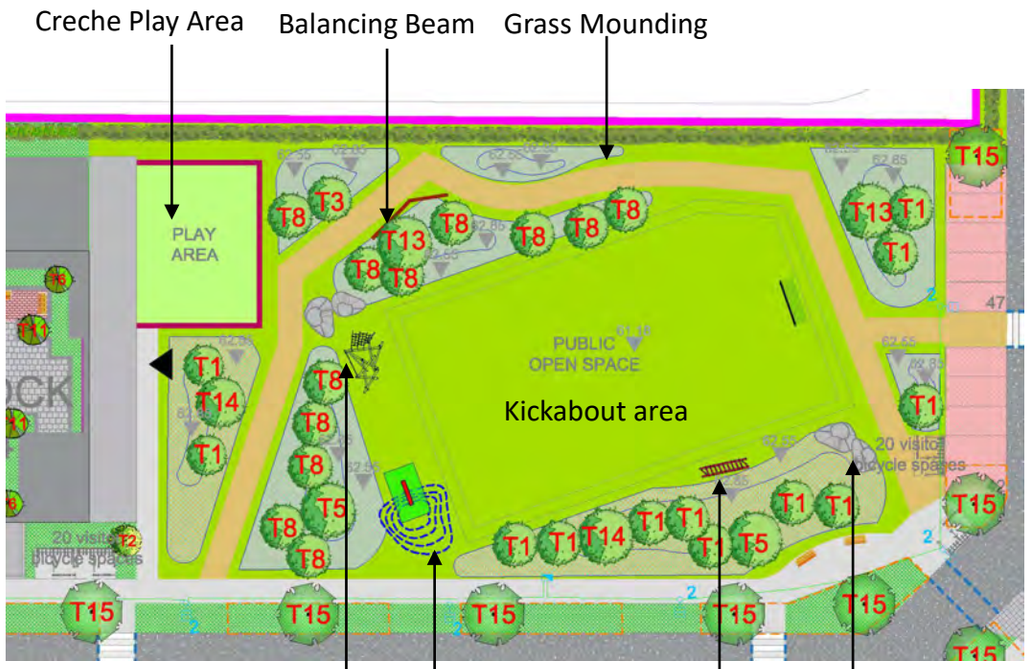
St. Edmunds

Proposed Design for Public Open space (Compliance & SHD)

(Before : Compliance Layout)



(Proposed : Initial SHD Layout)

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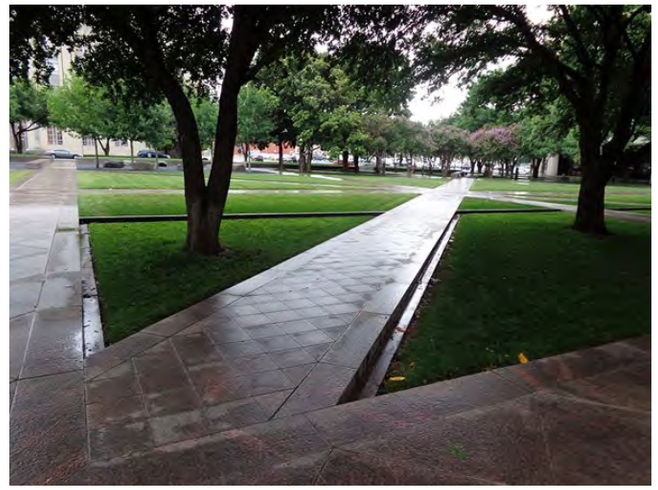
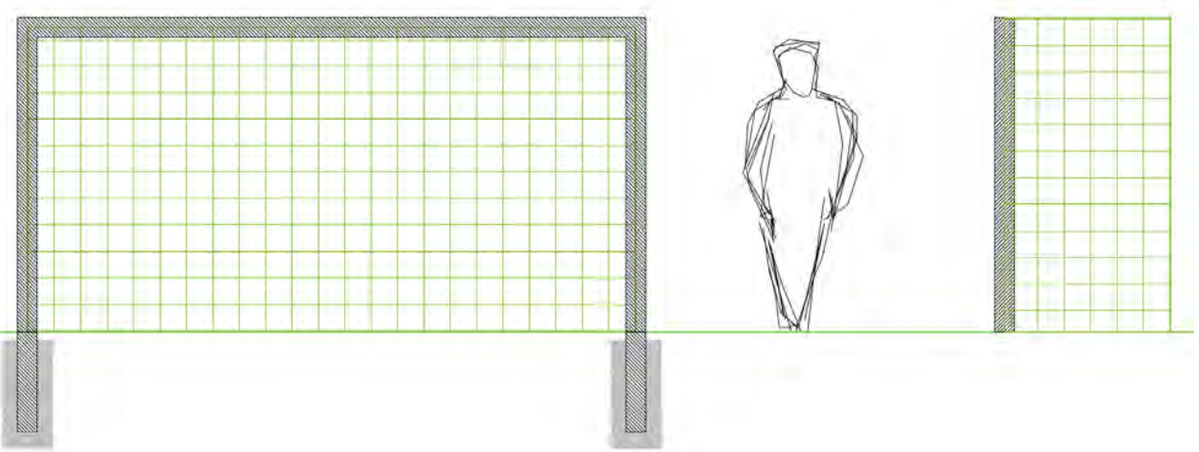
Proposed Design for Public Open space



Soccer Goal Posts Spec:
Manufactured from wood, metal or approved material.
Distance between the posts is 3.54M.
Distance from lower edge of the crossbar to the ground is 1.77M.
Goalposts & the crossbar must be white & do not exceed 120cmØ.
Nets may be Provided.



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St. Edmunds

Children's play items

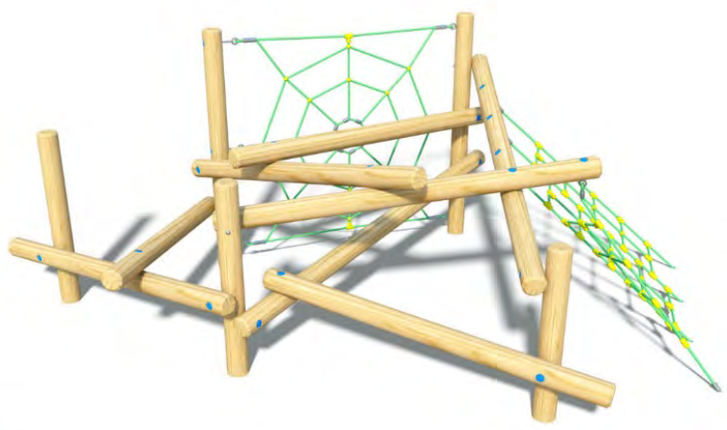
Embankment Slide

Age range :3+

Play Tower and slide Age range :3+

The Central Open Space is the location of both formal and informal play elements. The mounding combined with both tree planting and play items provides a unique source of adventure for the children. There is also a kickabout space for older children to utilise.

Pick up sticks Age range :6+



Stepping Logs Age range :3+

Waterlilies balancing post Age range :2+

Play Item Specification

Natural Play items taken from the Kompan, Buglo, Wicksteed Range or similar Approved.
All Products are manufactured from Robinia wood. Robinia is a type of Hardwood Timber with unique properties of strength and durability.
Robinia wood does not rot or give the user splinters and is also vandal resistant.
It is perfect for a natural play scheme.
Each Play Item has a fall zone protected with Safagrass Matting or TigerMulch.
Safagrass is an environmentally friendly, non-slip, impact absorbing safety surface.
Matting products are available in various sizes and critical fall heights (CFH).
Matting is secured with Pegs and Ties.
Safagrass Matting must meet with standards EI1177.

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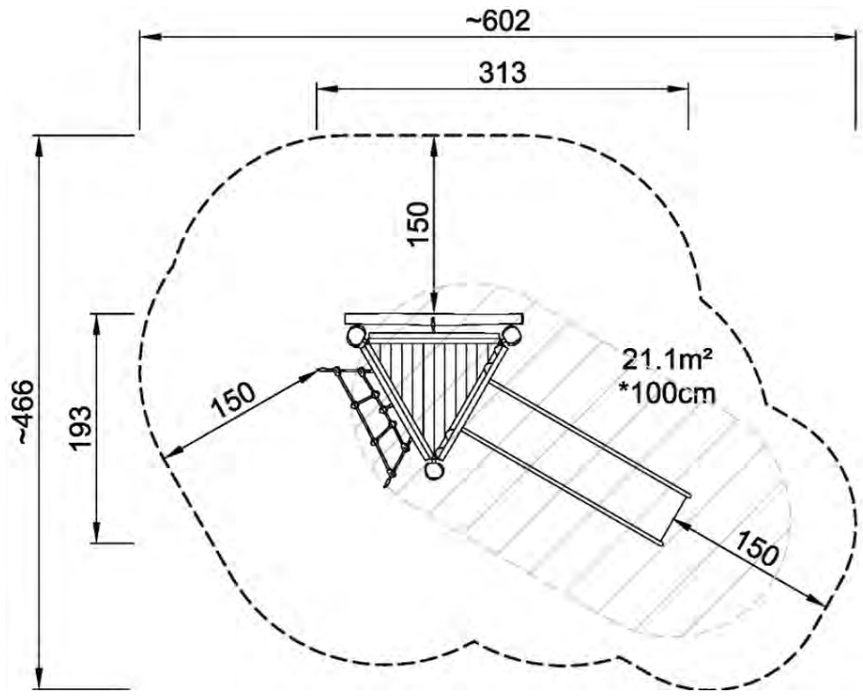
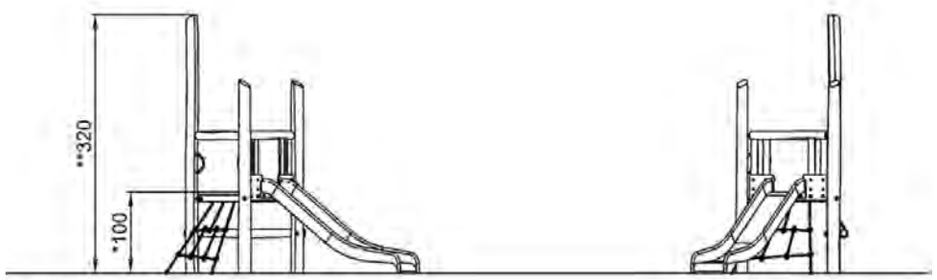
Children's play items

Play Tower and slide

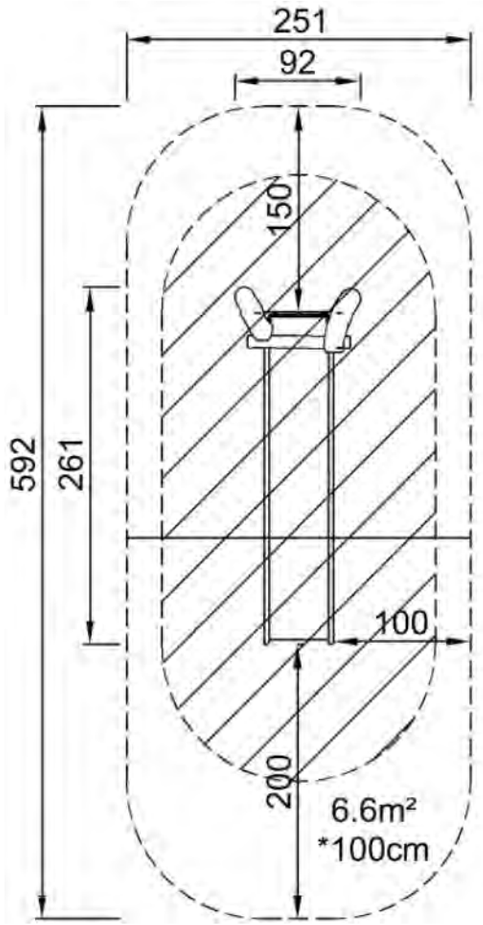


NRO1003-1001
*100cm
**320cm
***21.1m²

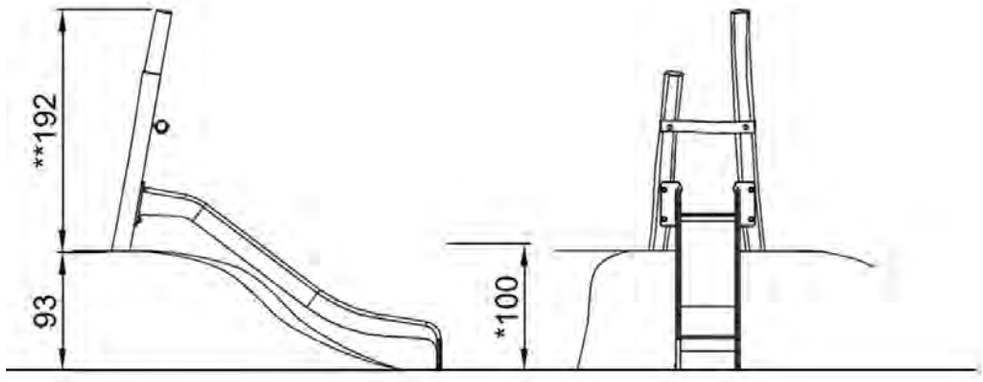


NRO1003
1:100

Embankment Slide



NRO308
*100cm
**192cm
***14.1m²



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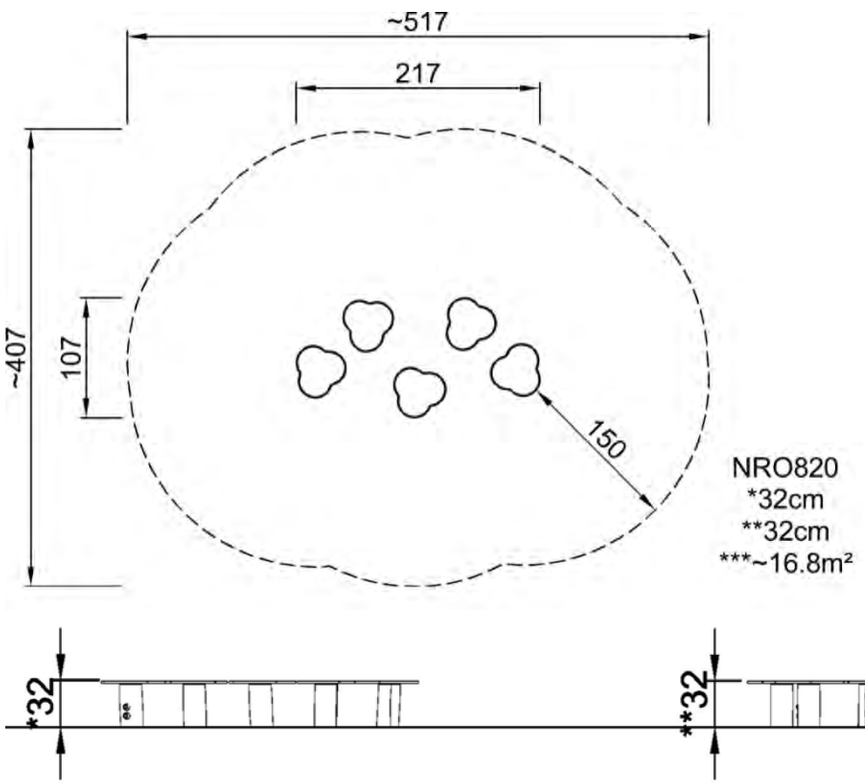
St. Edmunds

Children's play items

Waterlilies balancing post

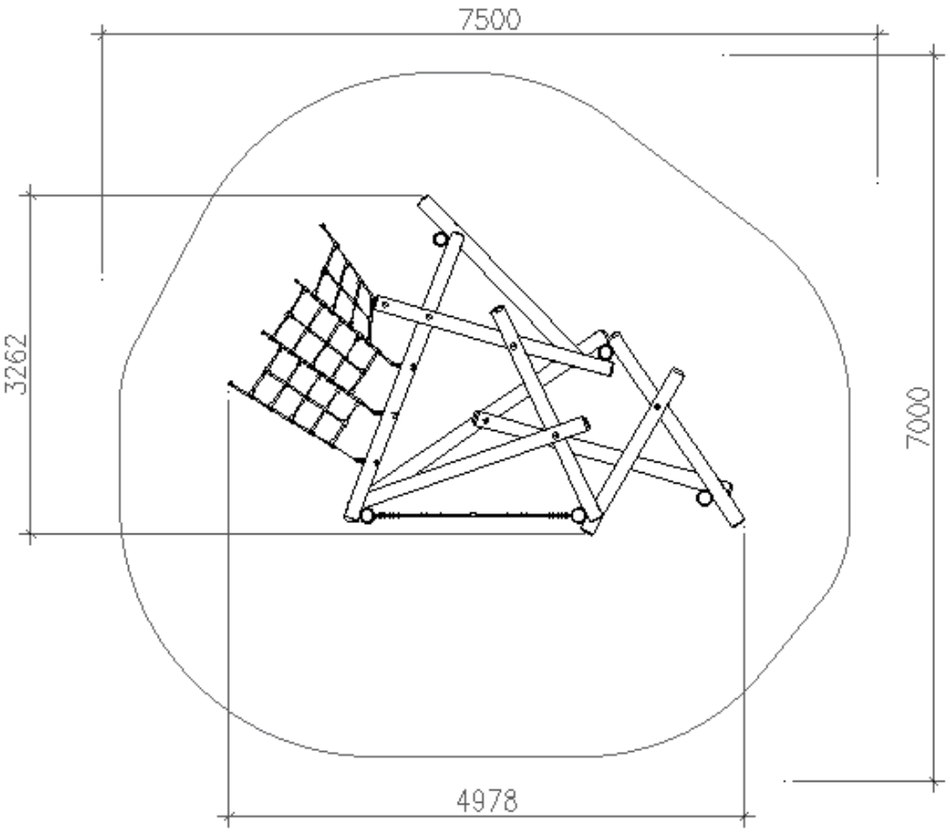


Pick up sticks

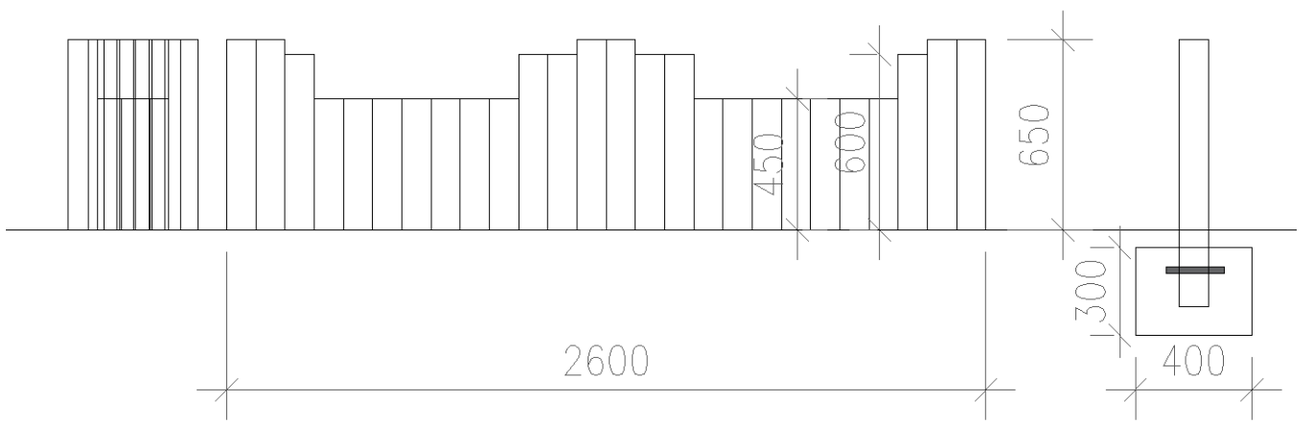
PICK-UP STICKS PICUS4

46.5 SQ METRES 70mm WETPOUR
22.0 LINEAR METRES WETPOUR EDGING
MAX FFH = 1850mm

44.5 SQ METRES 55mm TILES
25.0 LINEAR METRES TILE EDGING
32 GRASS MATS
182 MATTA MATS



Stepping Logs



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St. Edmunds

Calisthenics items

1. Incline press Age range :13+

2. Dip Bench Age range :13+

3. Push up bars Age range :13+

4. Decline Bench Age range :13+

Note: South Dublin County Council Parks Department to be advised of proposed calisthenics elements prior to ordering & to be involved in construction of same.

Kompan Calisthenics equipment is made from steel elements covered with double layer of powder coating. Wet Rubber Pour Surfacing.

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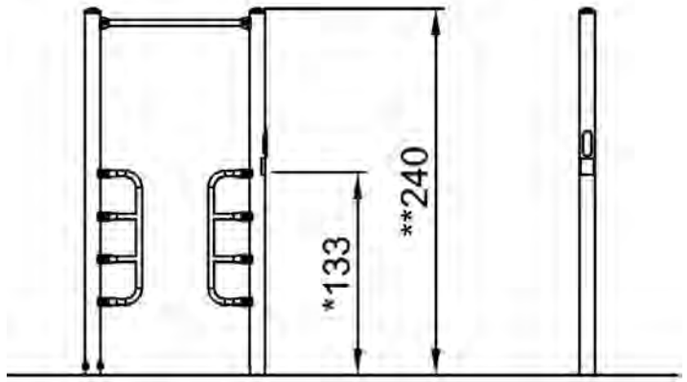
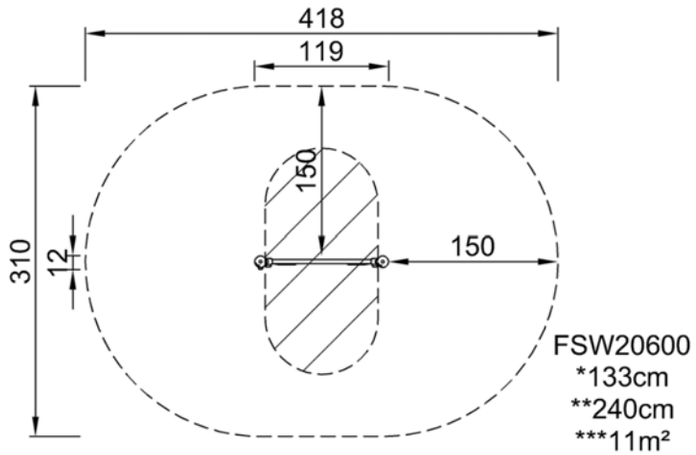
Calisthenics items

1. Incline press

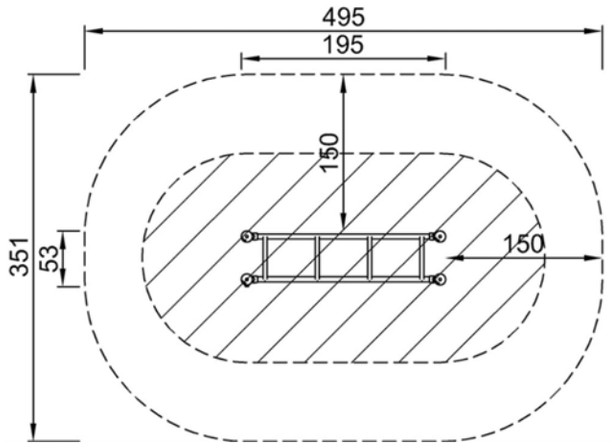


FSW20600
1:100

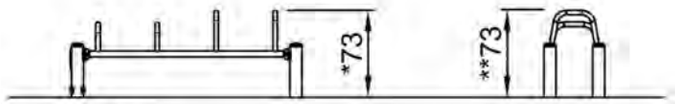


FSW20600
*133cm
**240cm
***11m²

2. Dip Bench

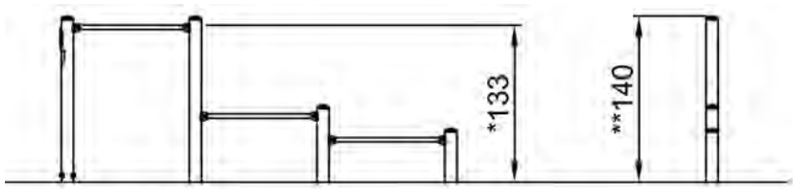


FSW20200
*73cm
**73cm
***15.5m²

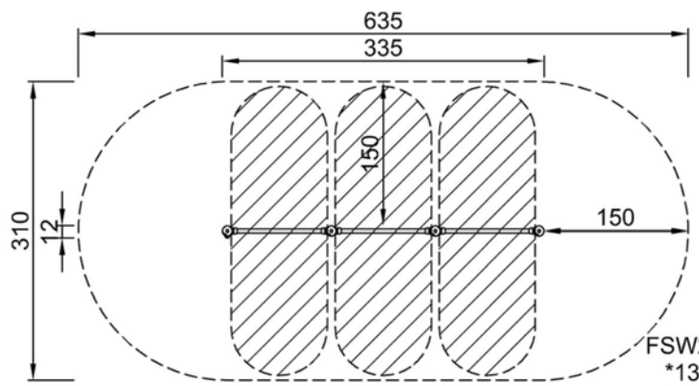


FSW20200
1:100

3. Push up bars

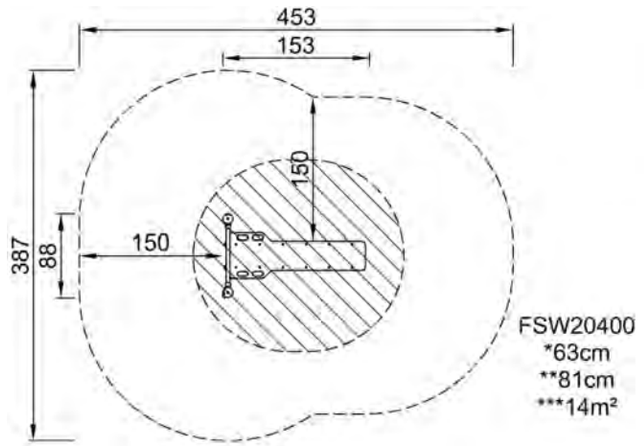


FSW20900
1:100

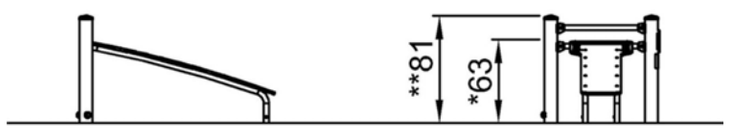


FSW20900
*133cm
**140cm
***18m²

4. Decline Bench



FSW20400
*63cm
**81cm
***14m²



FSW20400
1:100

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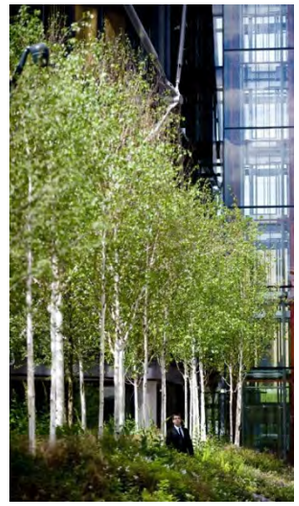
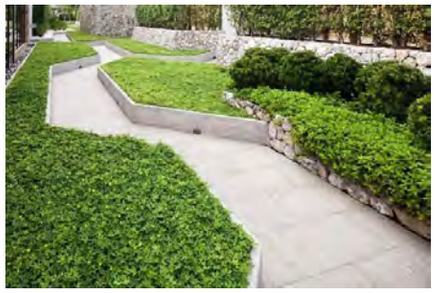
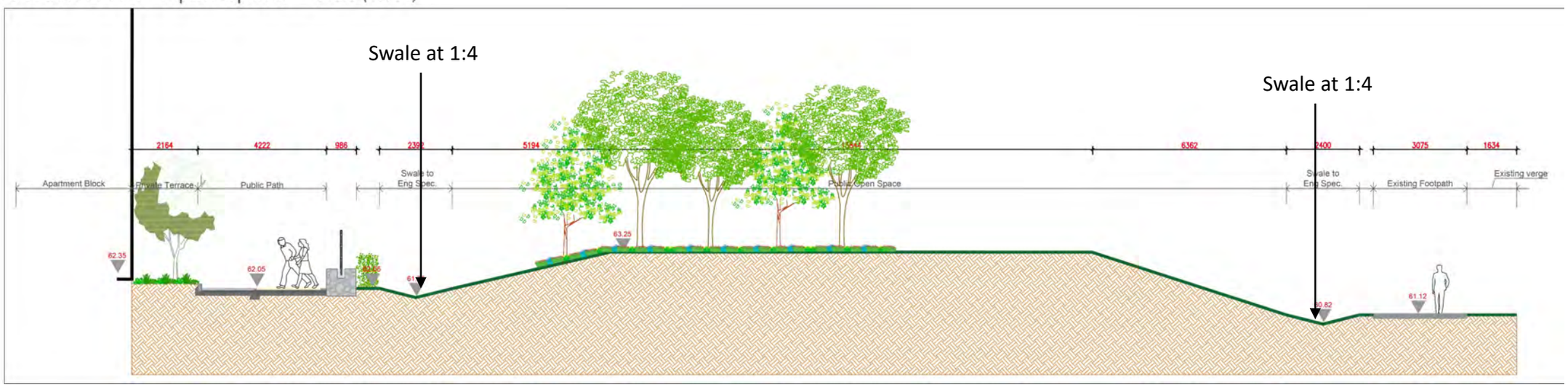
Eastern Boundary





Section H-HH - Open Space *Scale (1:100)*



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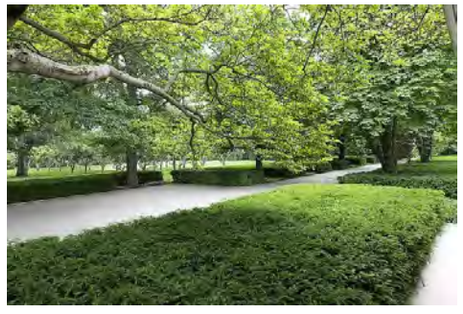
St. Edmunds

Communal Courtyards

Vents screened



Vents screened

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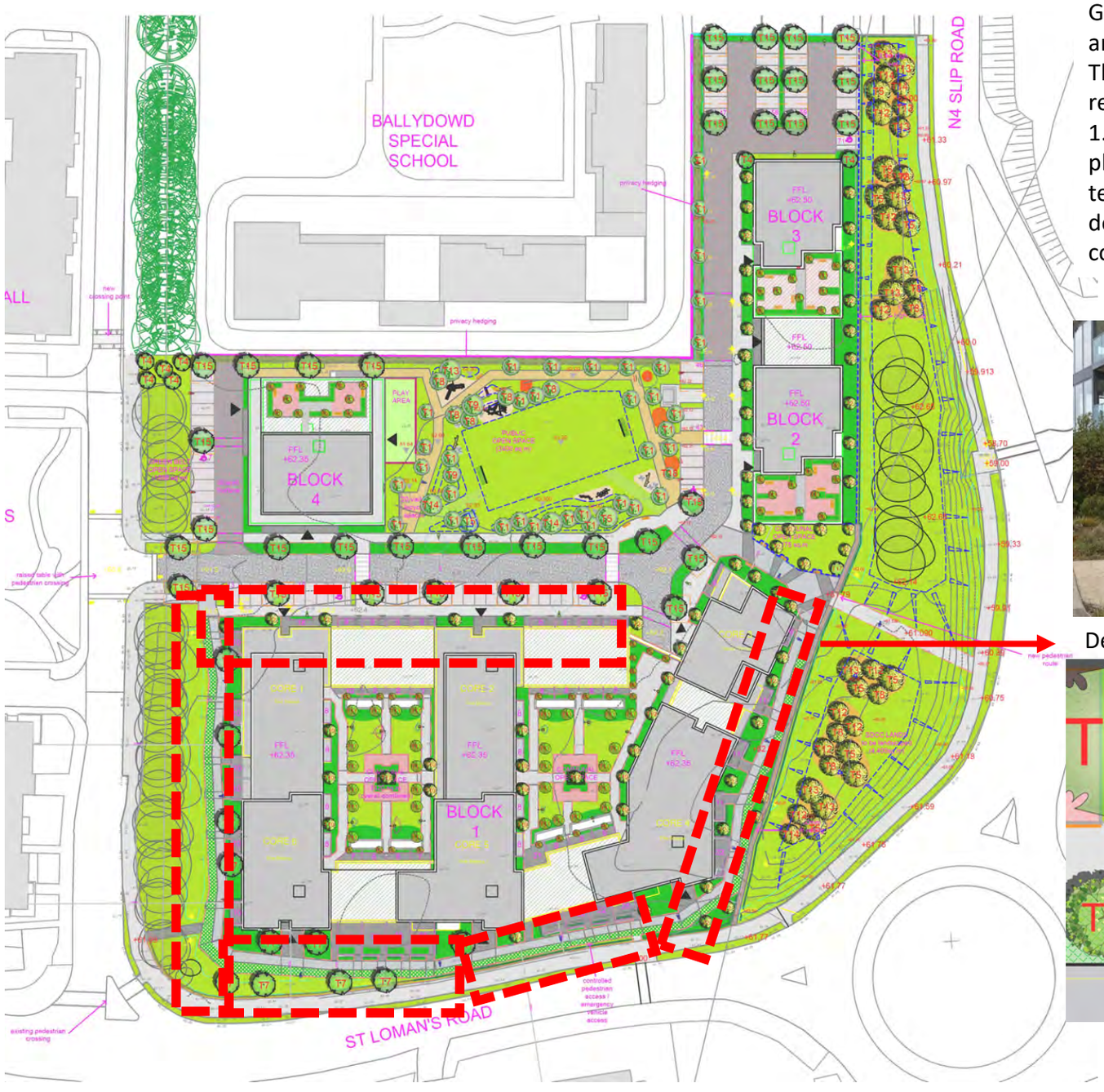
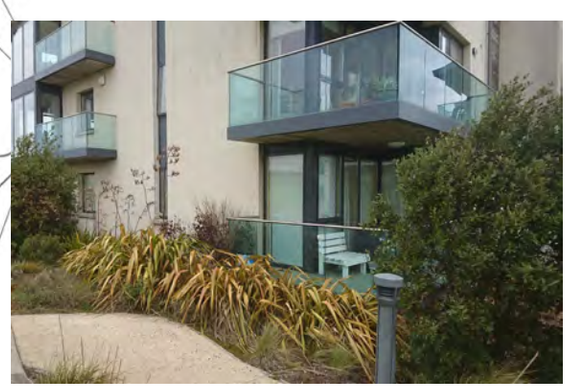
Interaction between private ground floor terraces and the streetscape

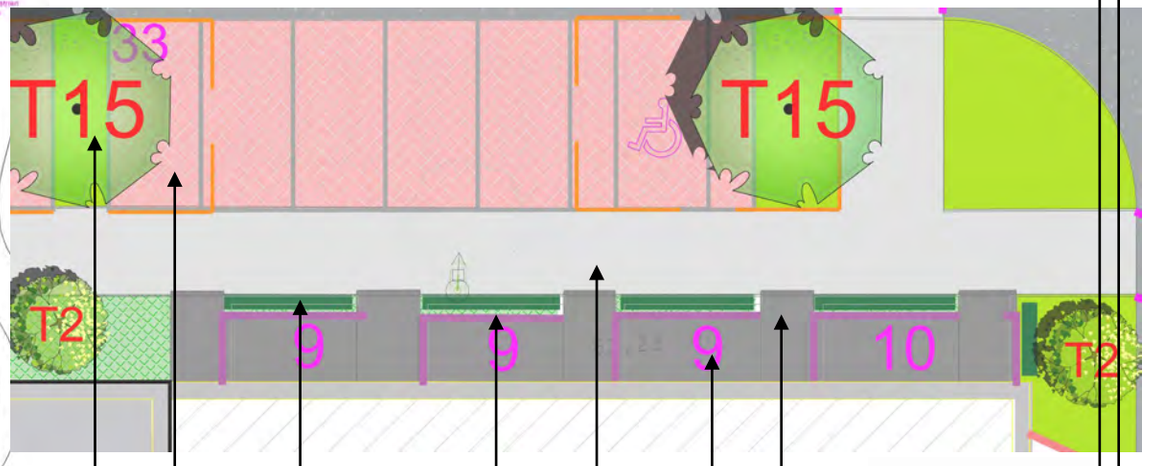


Locations of Private ground floor terraces outlined in red.

Ground floor terraces are located around the perimeter of blocks 1 & 2. They are screened from the public realm and communal open spaces by a 1.2m high glass balustrade and hedge planting to enhance privacy. Each terrace is has a gate so therefore own door access from the street and communal open space is possible.



Detail of terraces



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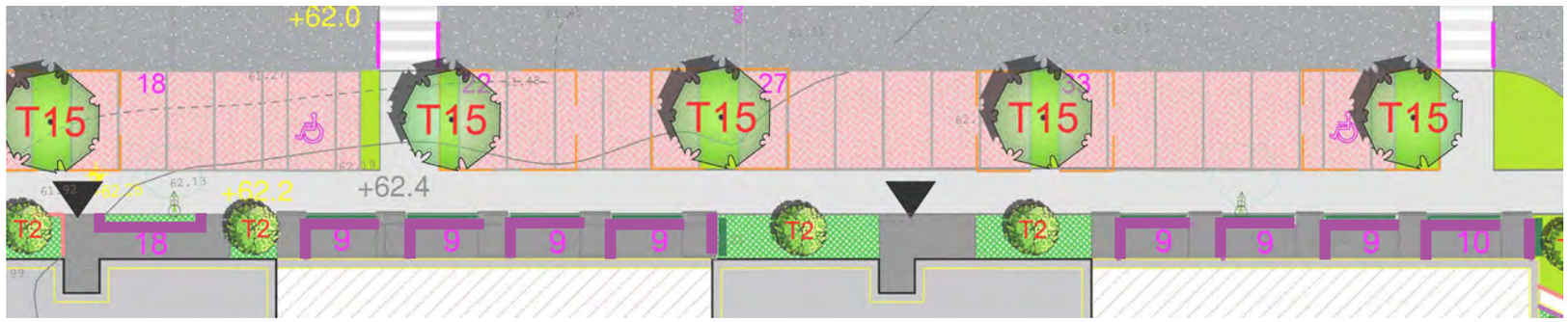
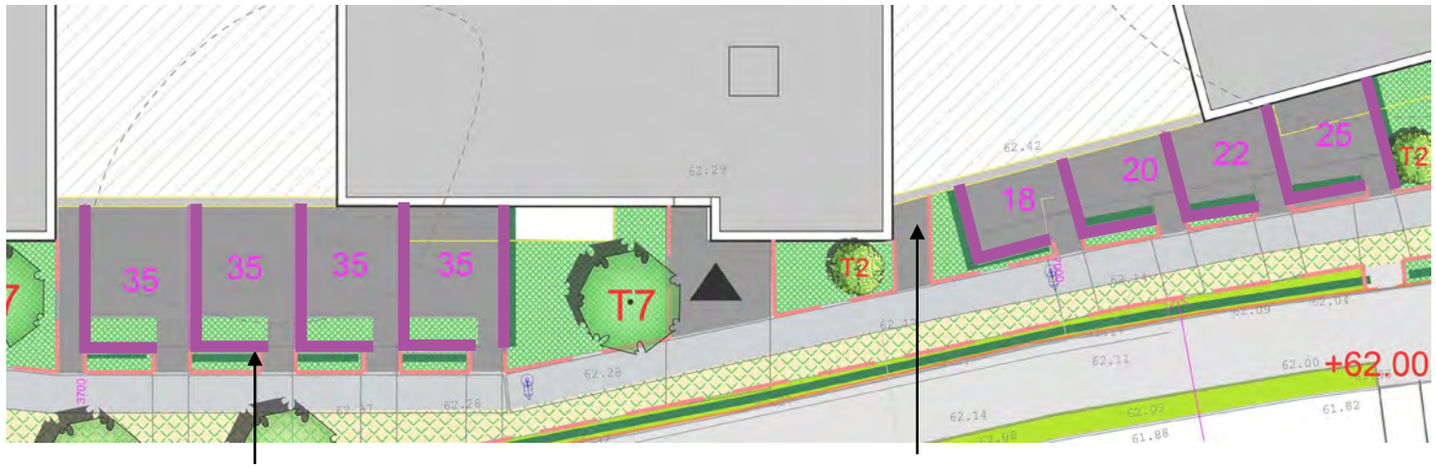
St. Edmunds

Terrace areas and boundary treatment

Area B
Total Terrace Area = 60



Area A
Total Terrace Area = 91



Metal Railing with hedge to private terrace boundary

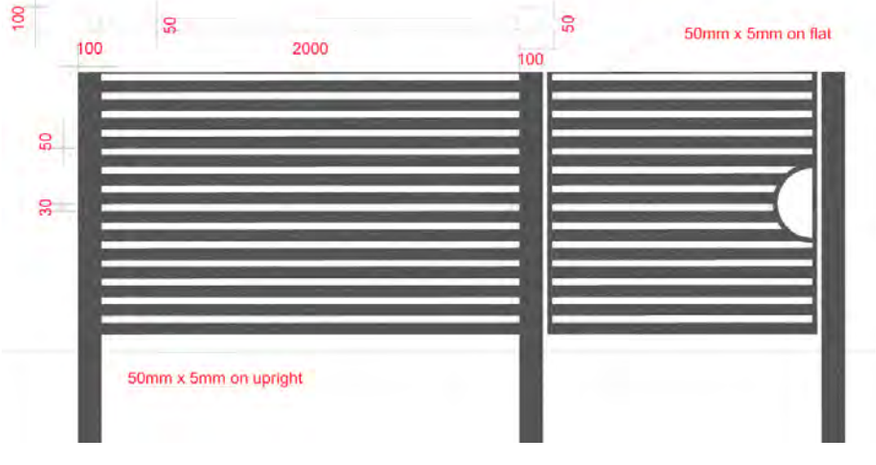
Recon Granite paving to terrace

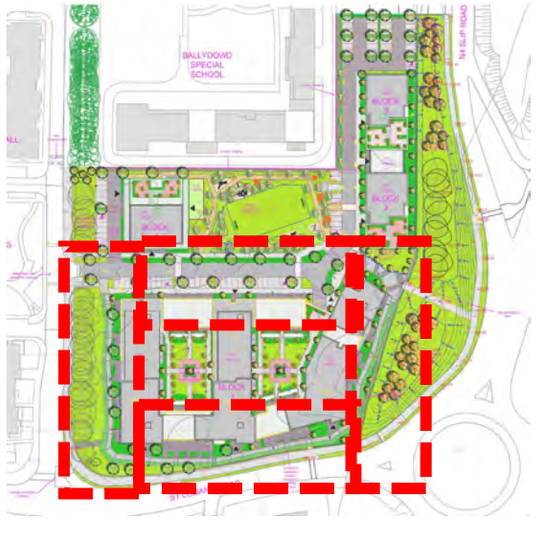
Area C
Total Terrace Area = 225

Area D
Total Terrace Area = 67

1200m High Railing Galvanised & Painted (black)

(boundary to curtilage of private terraces or similar approved)





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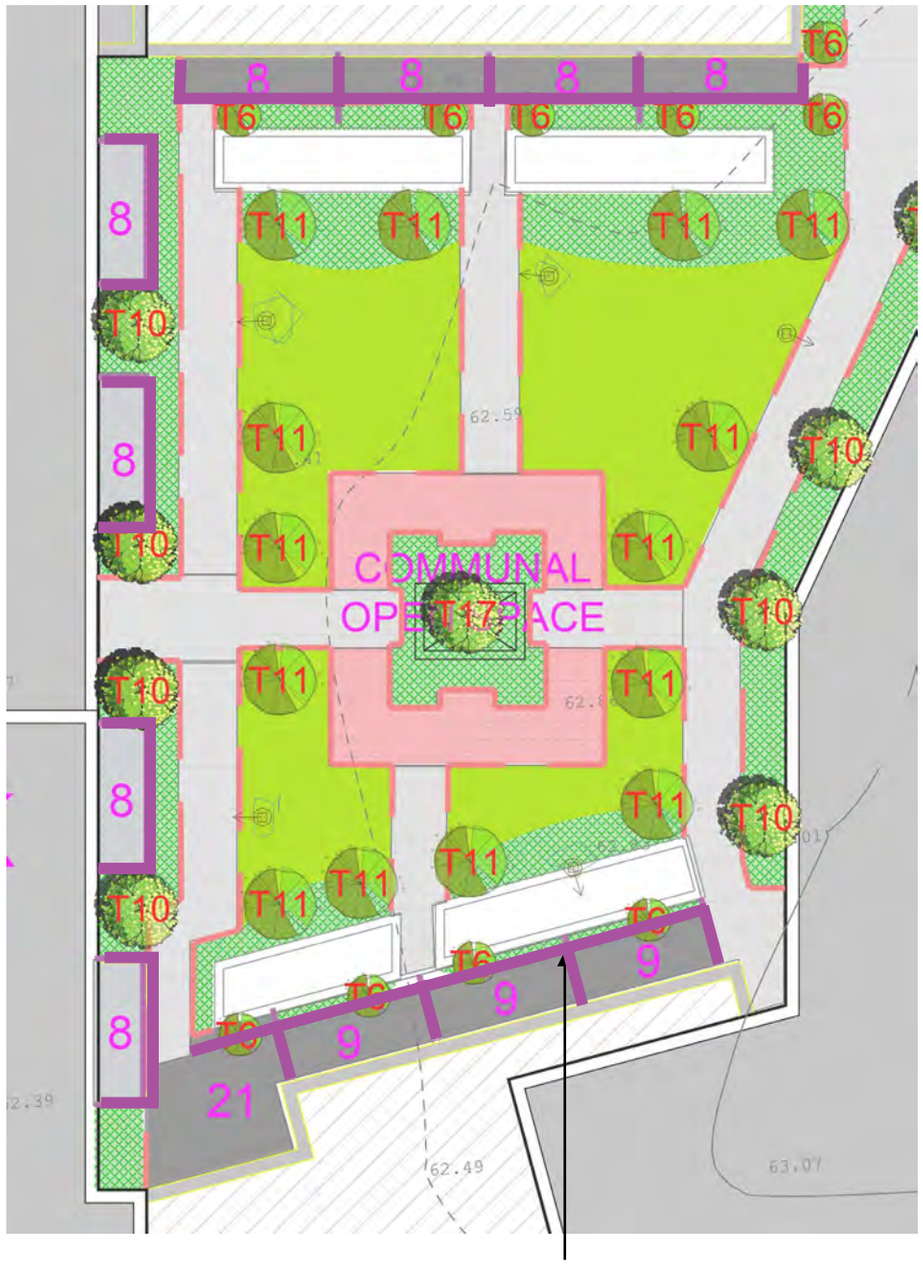
St. Edmunds

Terrace areas and treatment

Total Terrace Area = 95

Recon Granite paving to terrace



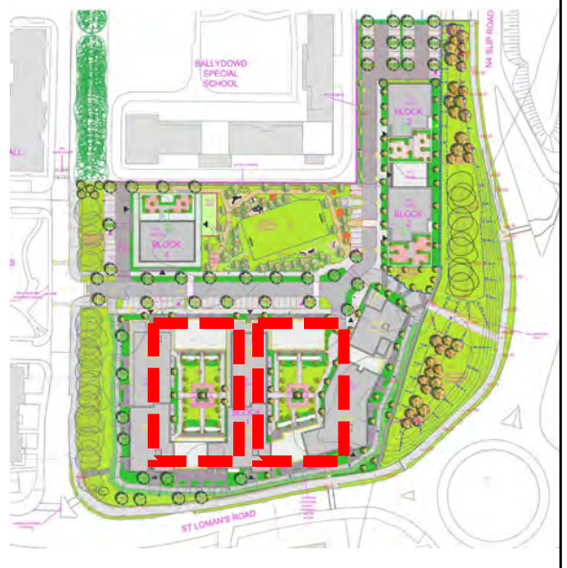
Total Terrace Area = 104

Metal Railing with hedge to private terrace boundary

The communal /private terrace space has been altered to provide for more defensible space for the private units.

Paths have been directed away from the private spaces as much as possible.

Planting of medium sized shrubs to provide for a soft boundary has been included to increase the privacy of the individual unit and reduce the impact of noise if any.



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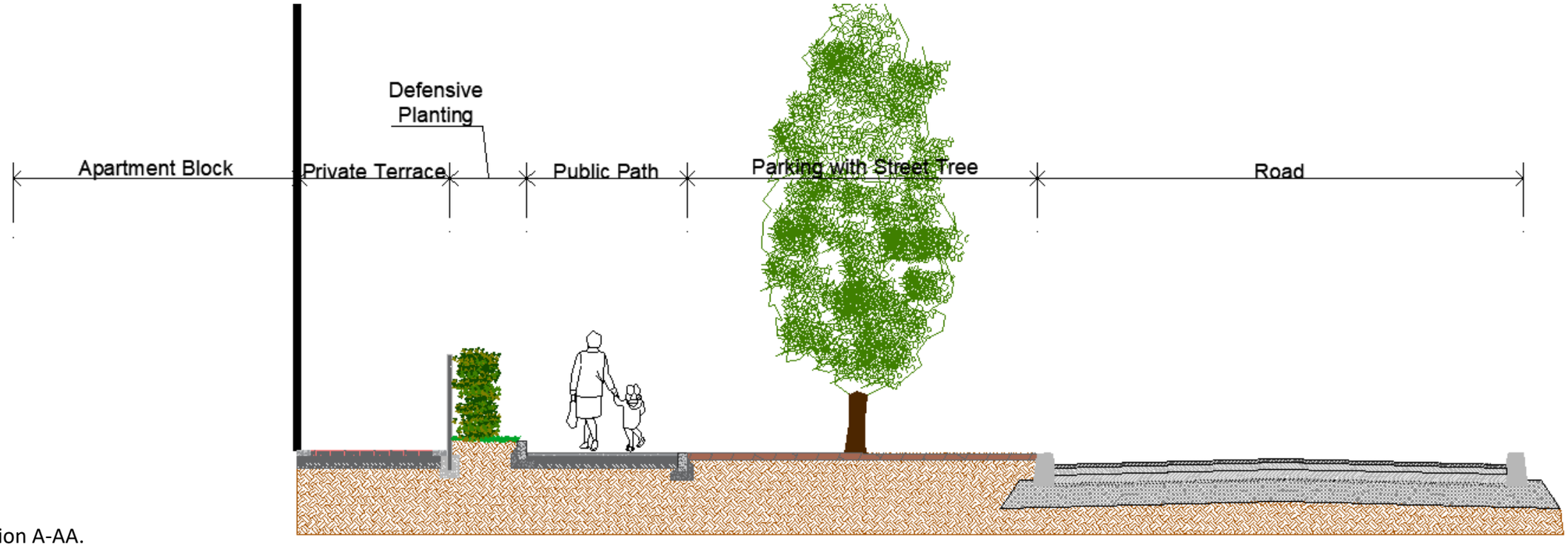
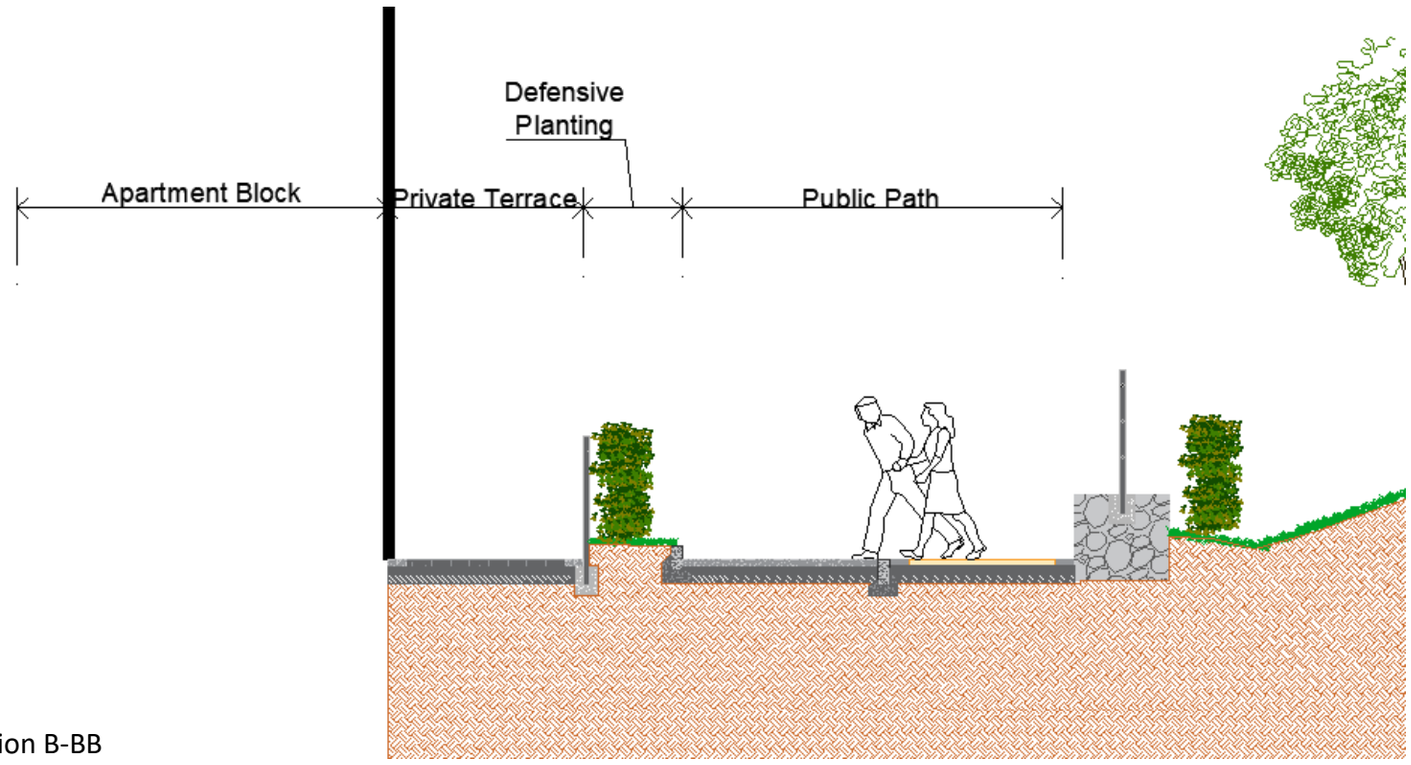
St. Edmunds

Interaction between private ground floor terraces and the streetscape/public paths



Section A-AA.



Section B-BB

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St. Edmunds
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 is able to 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.

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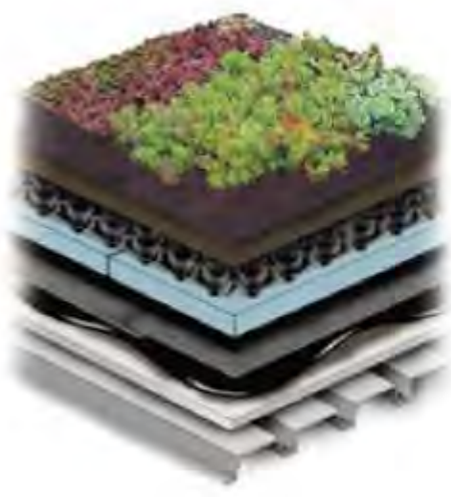
St. Edmunds
Sedum Roof

- ***Drainage:*** Vegetative roof drainage design must both maintain optimum growing conditions in the growth medium and manage heavy rainfall without sustaining damage due to erosion or ponding of water.
- ***Plant nourishment and support:*** The engineered medium must be carefully designed to provide for excellent plant growth, no wind scouring, and proper water holding capacity.
- ***Protection of underlying waterproofing systems:*** Vegetative roof assemblies must protect the underlying waterproofing system from human activities (including the impact of maintenance) and biological attack, and solar degradation. A capillary break immediately above the membrane is required for most membranes.
- ***Waterproofing systems:*** Waterproofing is critical for protecting the structure from water intrusion.
- ***Insulation systems:*** Insulation is critical for saving energy.

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)



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)

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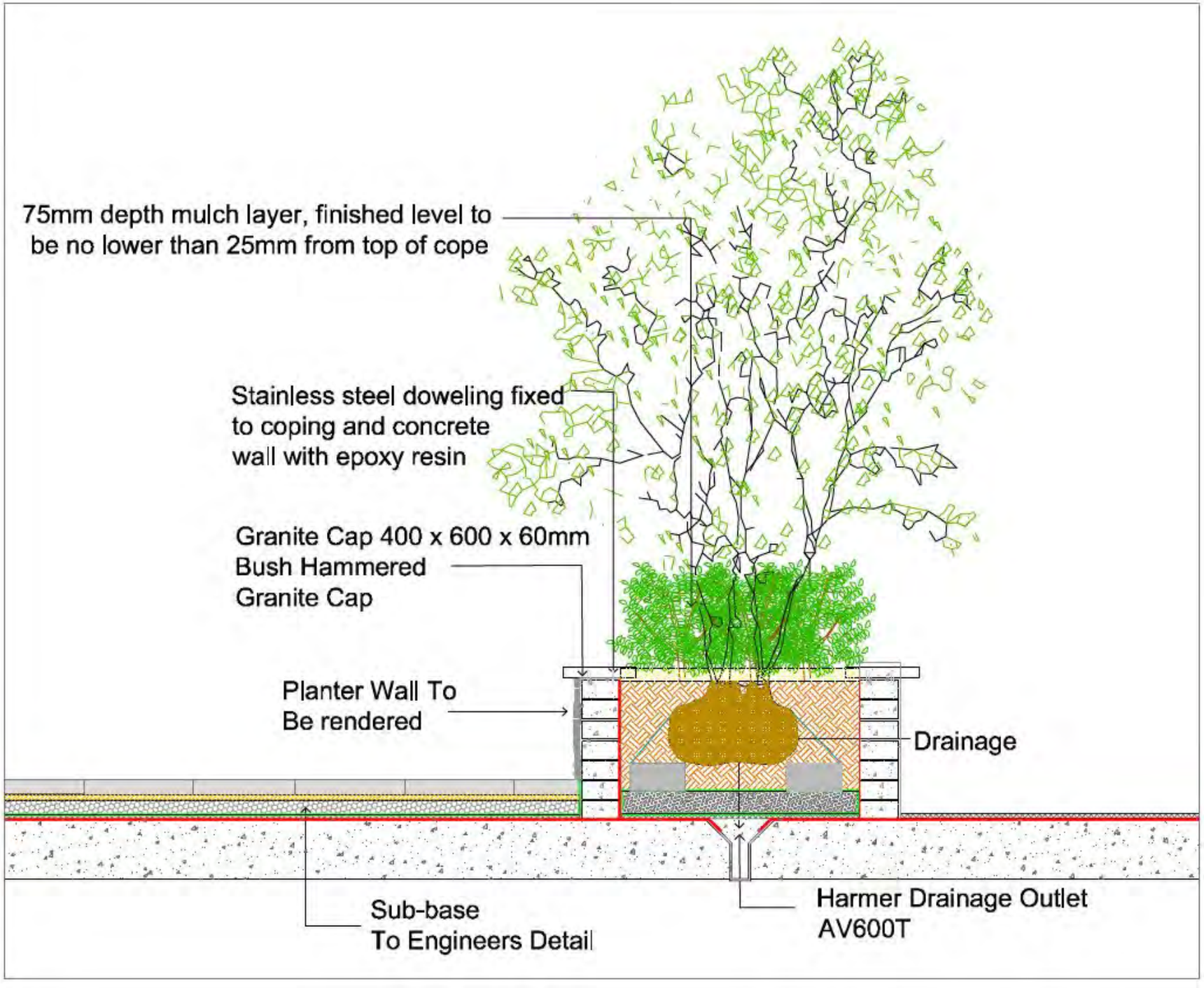
Raised Planter Detail



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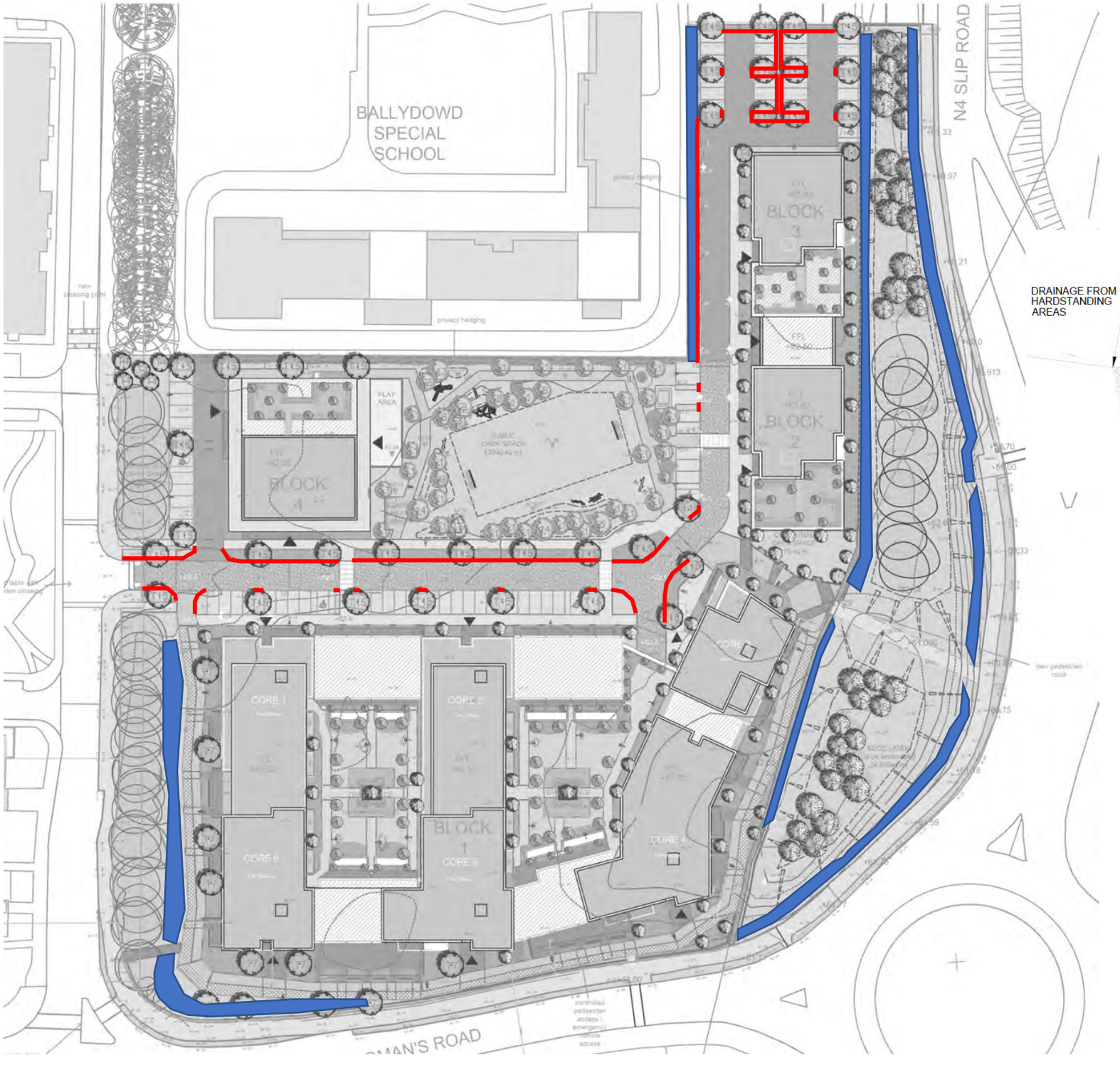
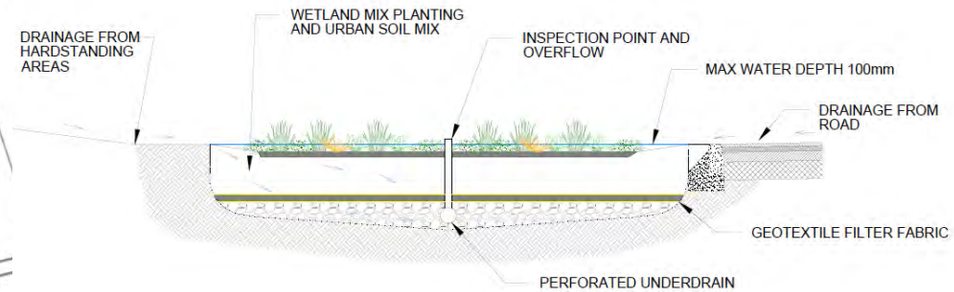
Swale and drop kerb locations



Swale Locations

Drop Kerb Locations

Bio-retention Detail to Drop Kerb Locations. See engineer Dwgs. and report for more details



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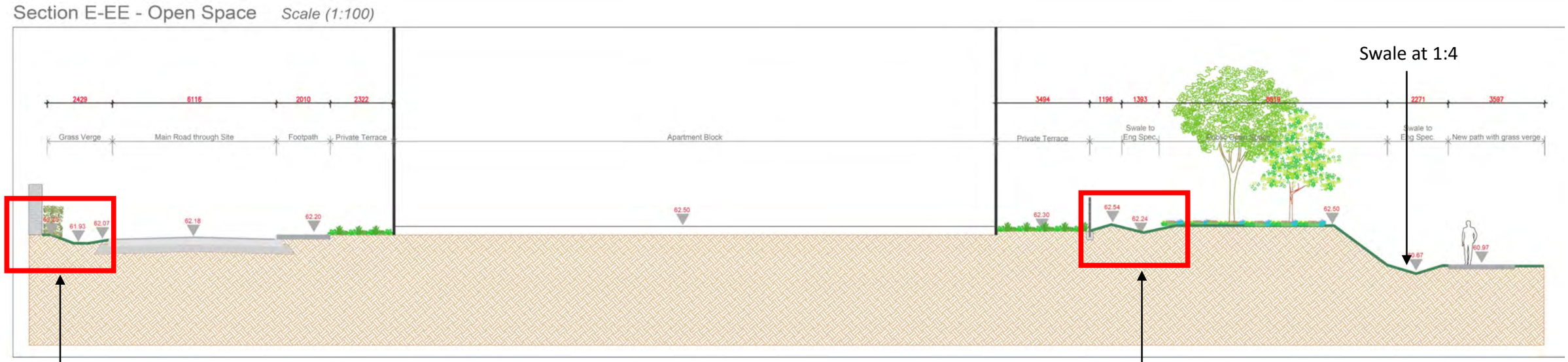
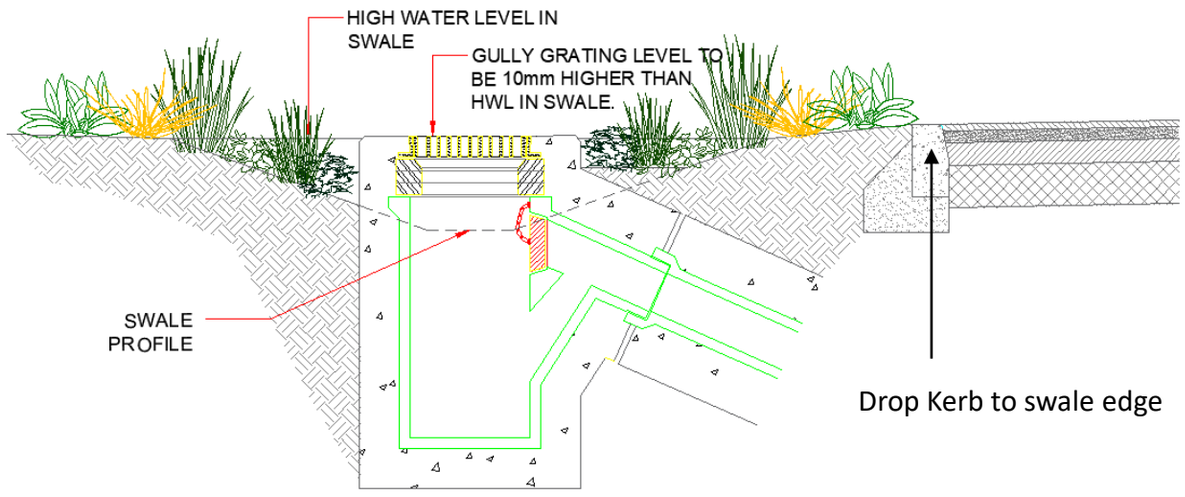
Example of Swale Details

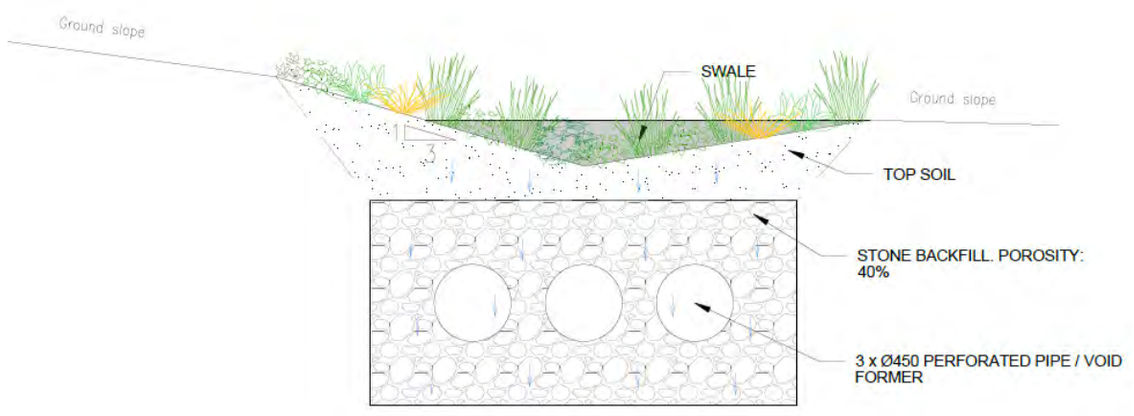


Swale to Roadside, Drop Kerb. Please see Engineer drawings and report for more detail

Swale to Open Space. Please see Engineer drawings and report for more detail



Drop Kerb to swale edge



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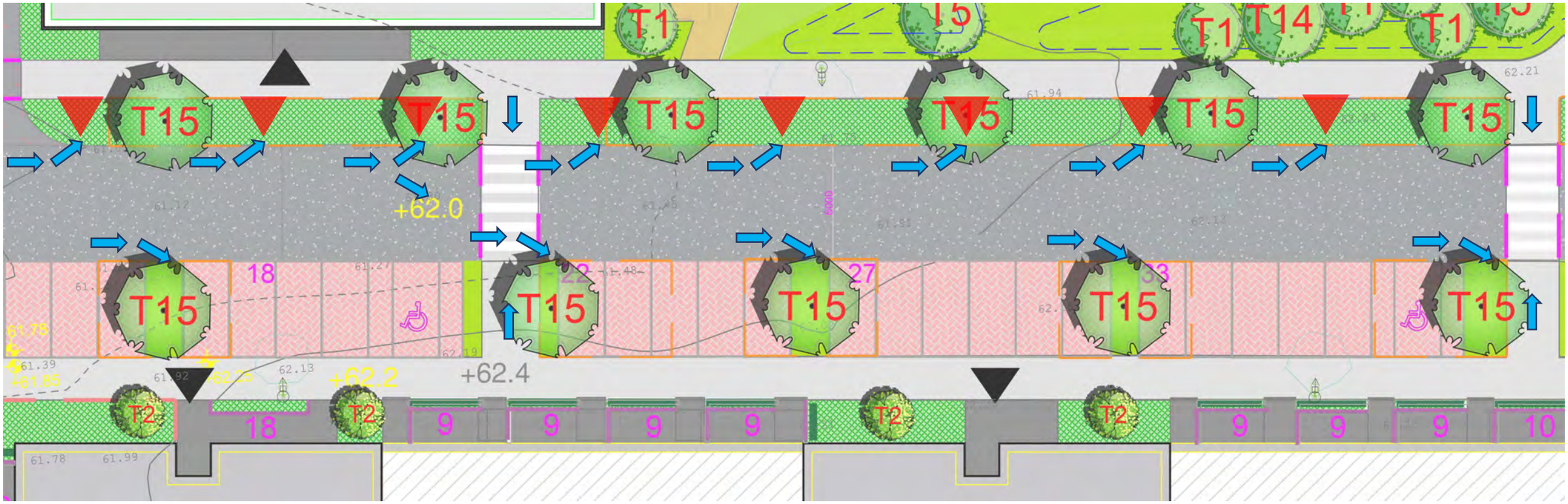
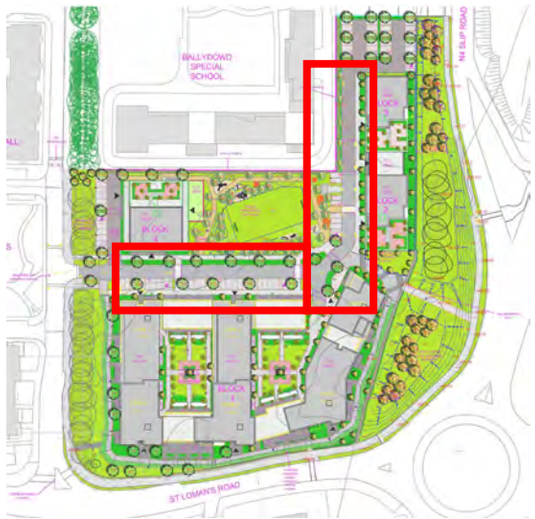
Drop Kerb Water Flow Example



Drop Kerb Location

Surface Water Flow

Please see Engineer Dwgs. for more details on drop kerb locations and swales



Location Plan

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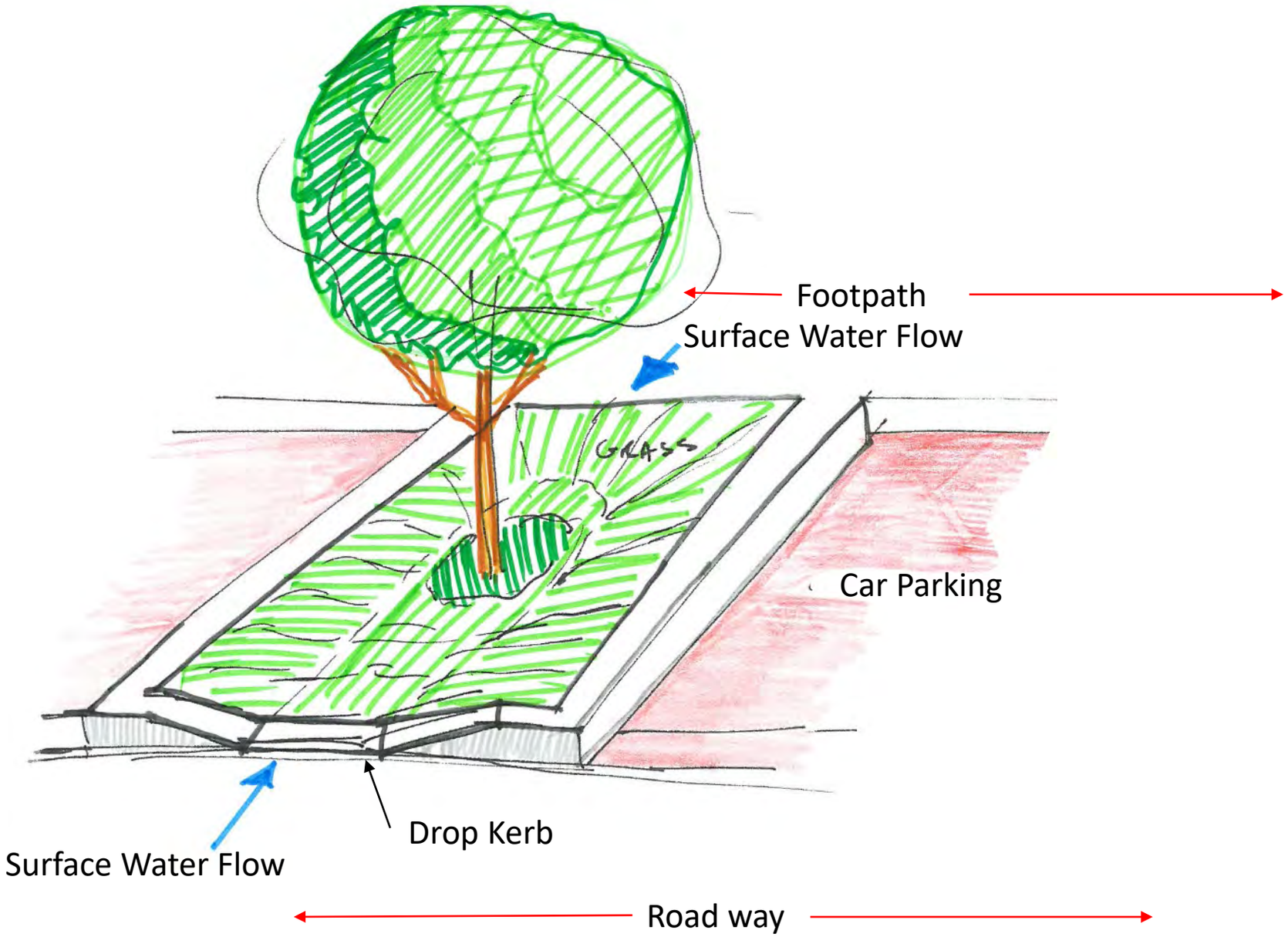
Tree Pit Detail



Groundcover
Persicaria affine
Hedera helix ' Hibernica'
Vinca minor
Bergenia spp.

Perennials
Ligularia przewalskii 'The Rocket'
Astilbe spp. (Snowdrift, Hyacinth)
Iris siberica
Iris pseudoacorus
Achillea millefolium 'Song Siren Laura'
Helleborus foetidus
Salvia spp (variety to be chosen for wet)

Bulb/Corm/Rhizome
Aquilegia canadensis
Kniphofia uvaria
Crocosmia spp
Allium spp

Grass:
Carex pendula

Fern
Dryopteris felix-mas
Dryopteris dilatata

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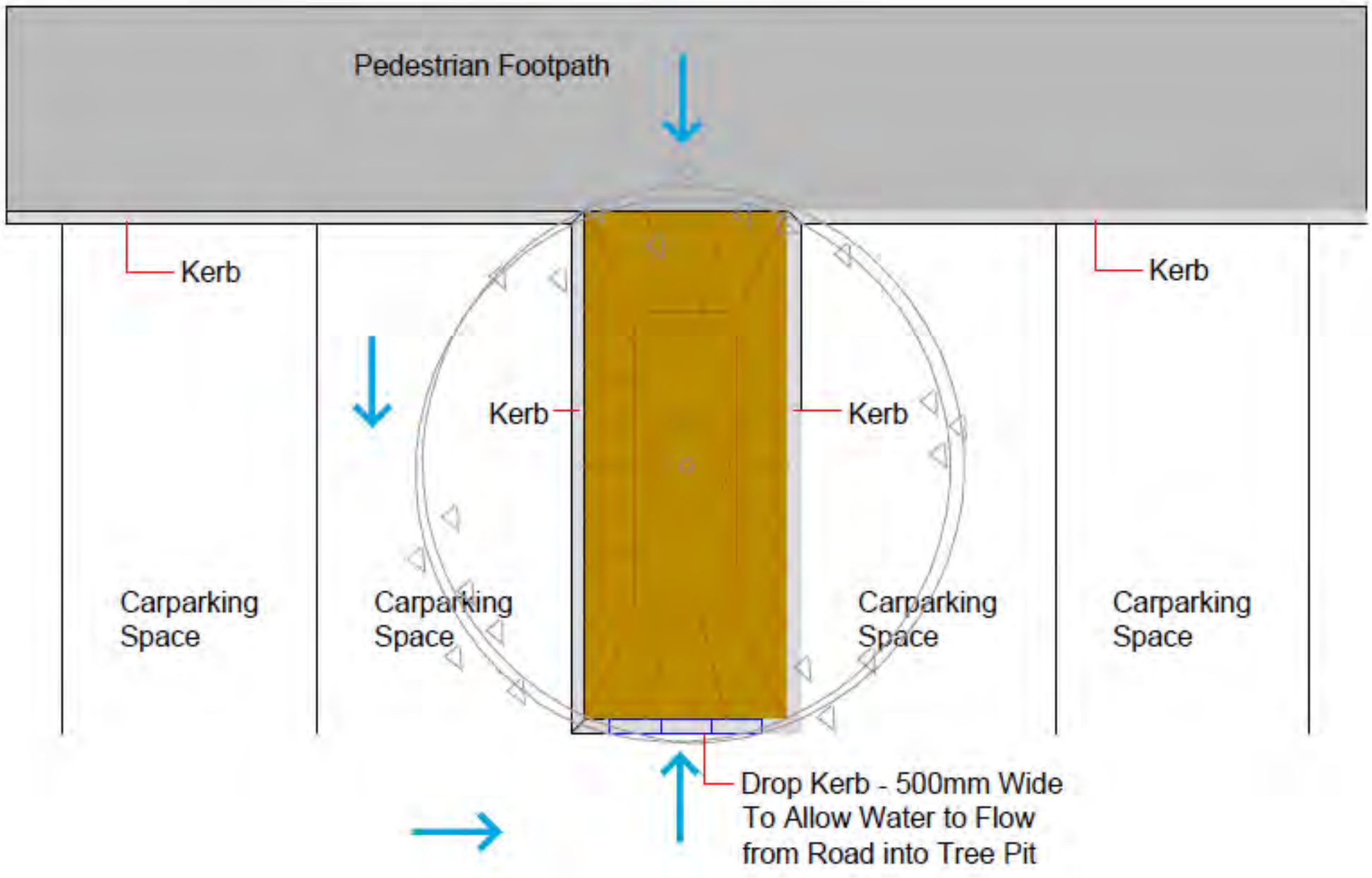
Drop Kerb Detail

Surface Water Flow

Plan View of Tree Pit



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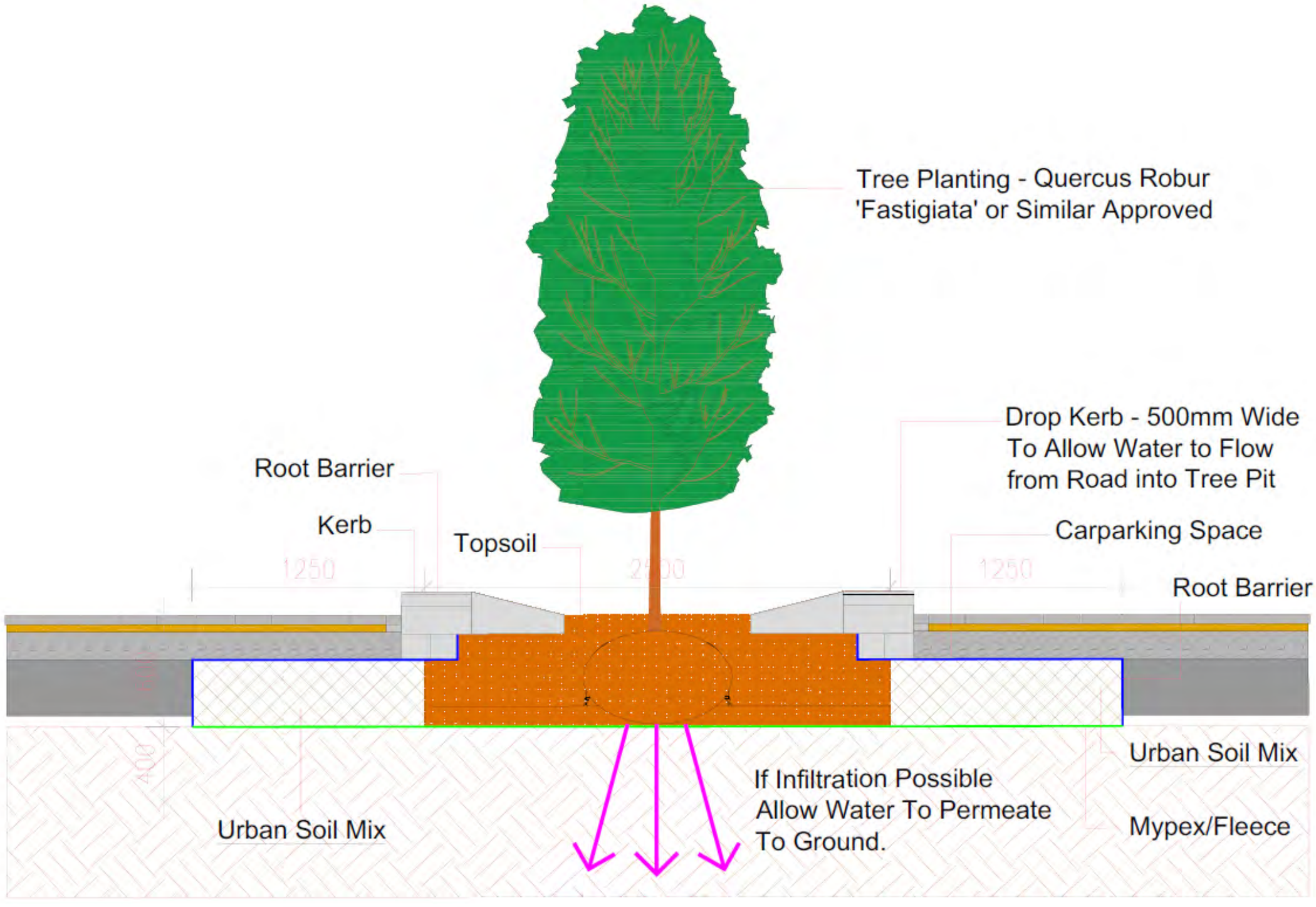
Drop Kerb Detail



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Suggested Surface Treatments

(or similar approved)

Charcoal paving

Tarmac with colour chip

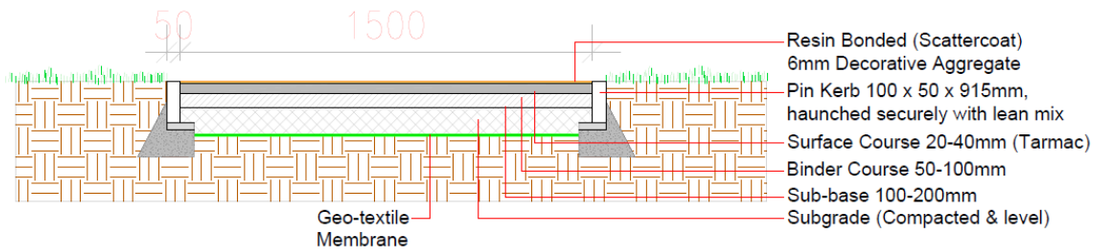
Heather paving

Natural Grey paving

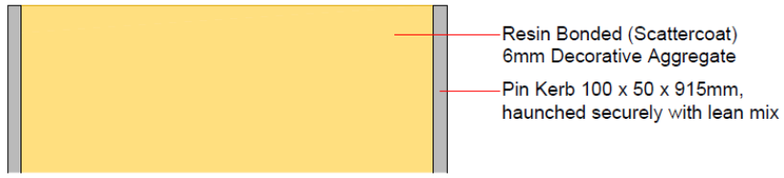
Beige Tarmac

Rustic paving

Resin Bonded (Scattercoat) Pedestrian Path Detail



N.B. Resin Bonded Surfacing is weather dependant. The traditional laying season is typically April to September to avoid cold wet weather and dew in the air, ground temperature must be >10°C, as the resin is sensitive to moisture before curing.



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St. Edmunds
Suggested Planting

Proposed Tree Planting

No. Name.

1. Betula pendula
2. Laurus nobilis - Cone Shaped
3. Carpinus betulus 'Fastigata'
4. Acer campestre 'Elsrijk'
5. Fagus sylvatica
6. Rhus typhinia
7. Fagus sylvatica 'Dawyck'
8. Larix decidua
9. Betula pendula 'Multi-stem'
10. Acer palmatum
11. Amelanchier lamarckii
12. Tilia cordata 'Greenspire'
13. Quercus robur
14. Pinus sylvestris
15. Quercus robur 'Fastigiata'
16. Malus 'John Downie'
17. Arbutus unedo
18. Viburnum opulus

Carpinus betulus ‘Fastigiata’

Laurus nobilis

Betula pendula – multi-stem

Quercus robur ‘Fastigiata’

Malus 'John Downie’

Betula pendula

Proposed Hedge Planting

No. Name.

1. Prunus lusitanica (Single Row)
2. Elaeagnus ebbingei (Single Row)
3. Native Hedgerow (Double Row)
   - 50% Craetagus monogyna
   - 35% Prunus spinosa
   - 5% Ilex aquifolium
   - 5% Rosa canina
   - 5% Lonicera periclymenum 'Graham Thomas'

Elaeagnus x ebbingei

Prunus lusitanica

Amelanchier lamarckii

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St. Edmunds
Suggested Planting

Proposed Groundcover & Shrub Planting

No. Name

1. Persicaria affine
2. Hedera helix hibernica
3. Lavandula angustifolia
4. Prunus 'Otto Luyken'
5. Libertia grandiflora
6. Crocosmia citronella
7. Rhododendron yakushimanum
8. Sedum spectablis
9. Skimmia japonica
10. Miscanthus sinensis
11. Crocosmia lucifer
12. Phyllostachys aurea
13. Fragaria ananassa
14. Hemerocallis 'Tejas'
15. Astelia 'Silver Spear'
16. Vinca minor
17. Agapanthus blue storm
18. Perovskia atriplicifolia
19. Bergenia cordifolia
20. Helleborus niger

Proposed Bulb Planting

No. Name.

1. Crocus sativus
2. Galanthus nivalis
3. Muscari armeniacum
4. Colchicum autumnale
5. Narcissus jonquilla

Libertia grandiflora

Bergenia cordifolia

Sedum spectabile

Perovskia atriplicifolia

Vinca minor

Astelia 'Silver Spear'

Hedera helix Hibernica

Lavandula angustifolia

Miscanthus sinensis

Crocus sativus

Galanthus nivalis

Muscari armeniacum

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