

Arboricultural Impact

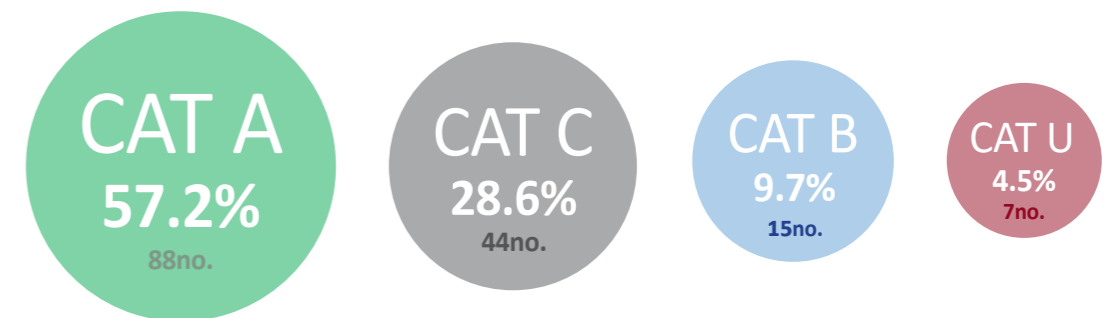


EXISTING TREES

154no.

A total of 154 trees were identified and assessed.

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



% of the total number of the existing trees



Arboricultural Impact

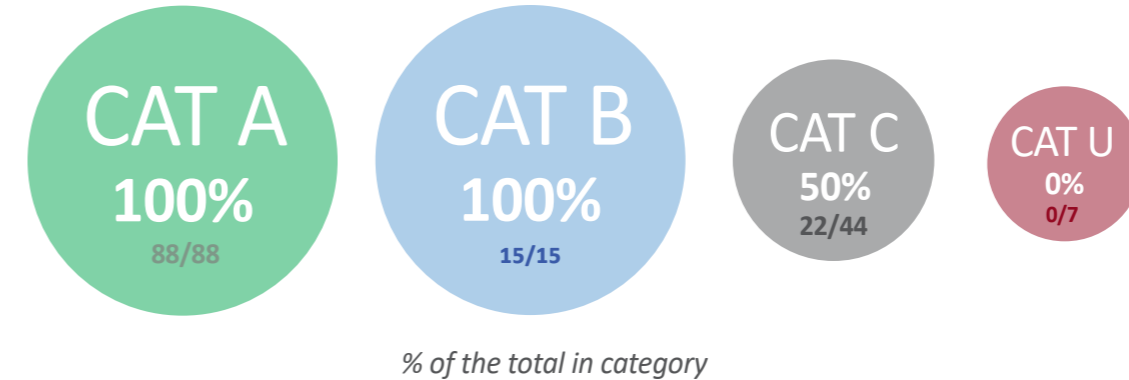


RETAINED TREES

125no.

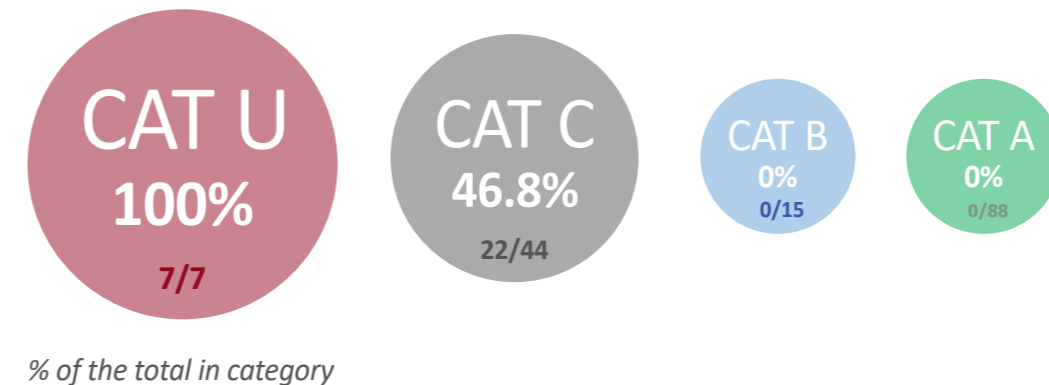
A total of 130 trees will be retained at the site

Tree protection and enhancement are a key tenet of the proposed design. The main concentration of retained trees are located on the northwest and southeast boundaries and within the proposed public park at Moygaddy Castle Towerhouse



REMOVED TREES

29no.



A total of 29 trees will be removed at the site, many of which have been highlighted for removal due to poor condition. The loss of these trees will be offset by new planting.



Arboricultural Impact

RETAINED TREES

A total of 88 trees will be retained at the site

Tree protection and enhancement are a key tenet of the proposed design. The proposed public park integrates the existing woodland setting of the Moygaddy Castle & Tower House, retaining all of the existing trees.



Retained Trees & Hedgerows

MEATH CPP/MAYNOOTH ENVIRONS LAP OBJECTIVES

MAY OBJ 10

To require that any development in the Maynooth Environs respects the built and natural heritage of the area, its landscape quality, protected structures, historic demesne, archaeological heritage, natural heritage and general landscape character.

MAY OBJ 11

To ensure all development in the area has no negative impact on the Rye Water Valley/Carton SAC site or on the environmental characteristics of the area including woodland, rivers and tributaries.




Aerial View



Hedgerow Impact



RETAINED HEDGEROWS


 Existing Hedgerows to be retained, and augmented where necessary with native species

The landscape design proposal aims to preserve the former agricultural vernacular by retaining the existing landscape structure of field boundaries, and where possible, by maintaining existing hedges and boundary trees.

This includes the hedgerow along the southern boundary and most of the hedgerow that runs parallel to the Blackhall Little. Retention and protection of mature vegetation and established hedgerows will ensure there is minimal impacts on biodiversity and it will allow the existing hedgerows their continued function as a wildlife corridors for the area.



REMOVED HEDGEROWS

 Existing Hedgerows to be removed to facilitate the proposed development and road infrastructure



Proposed Tree Planting

PROPOSED TREES

591no.

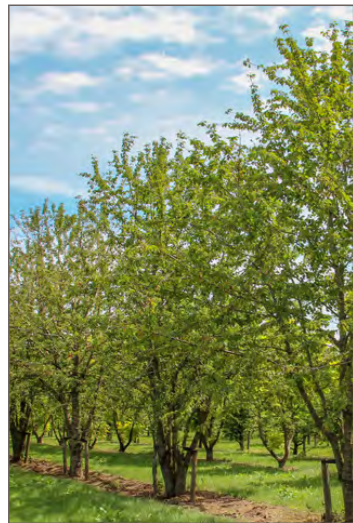
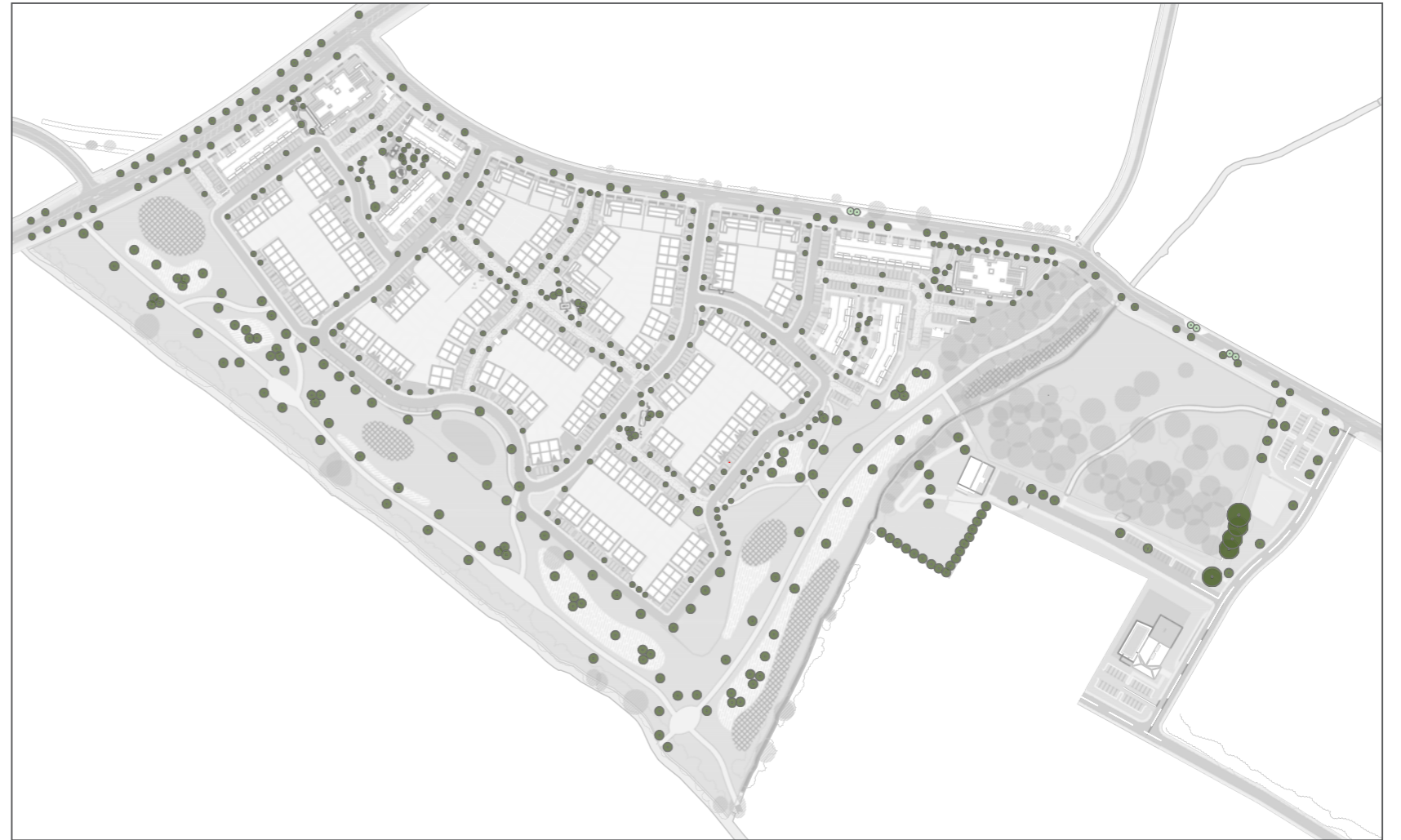
Total of 130 trees will be retained at the site.
Total trees proposed and retained: 731



Front Garden 12-14cm
Amelanchier lamarckii



Street Trees / Front Garden 14-16cm
Tilia tomentosa 'Brabant'
Carpinus betulus 'Fastigiata'
Tilia cordata 'Greenspire'^
Pyrus calleryana 'Chanticleer'
Sorbus aucuparia^



Multistemmed Trees 12-14cm
Prunus avium 'Plena'
Malus 'John Downie'^
Betula utilis var. jacquemontii



Open Space 14-16cm / 20-25cm

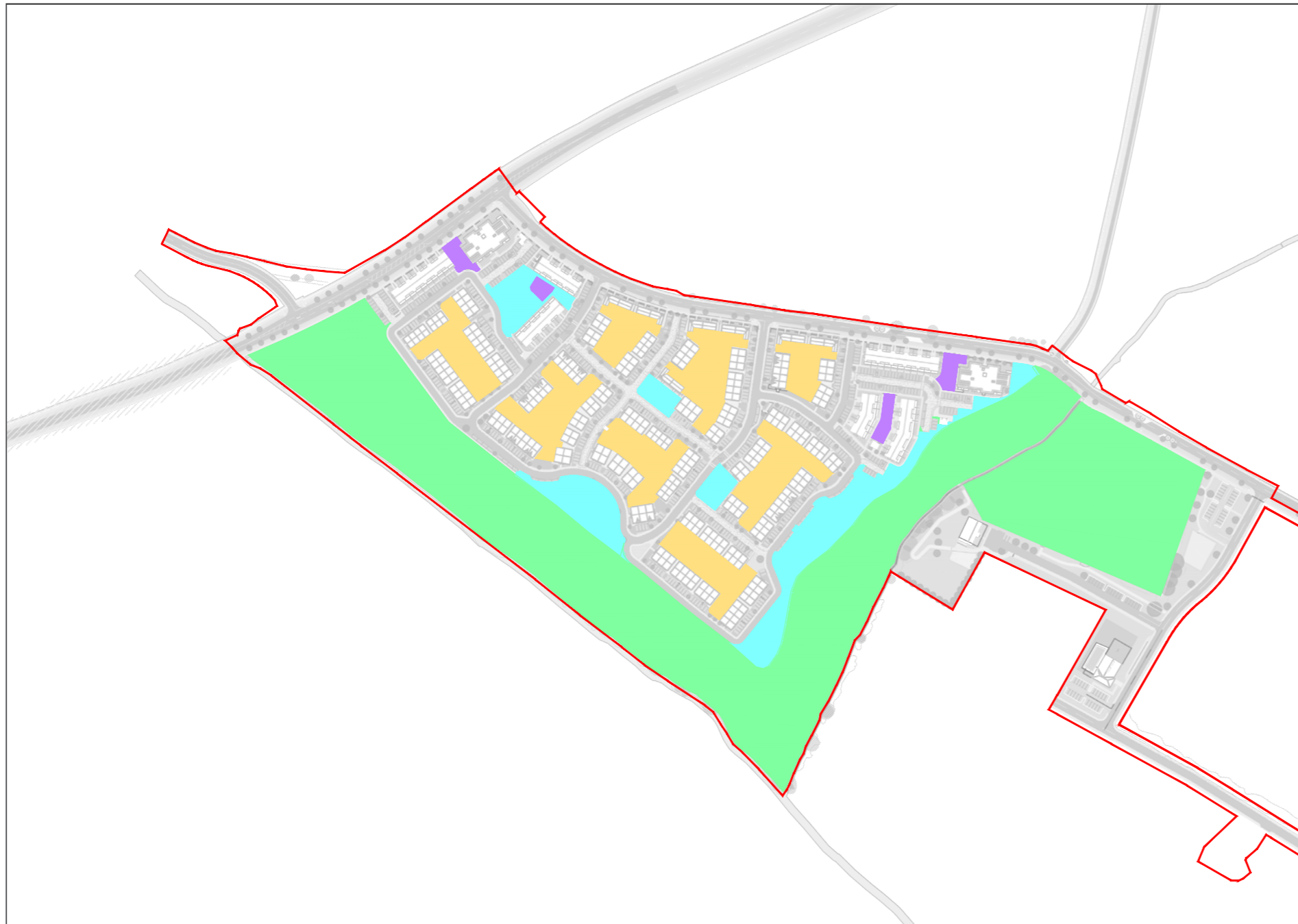
Betula pendula
Pinus sylvestris
Alnus glutinosa
Quercus robur



Quercus robur 'Koster'
Aesculus hippocastanum^
Fagus sylvatica
Prunus avium^



Open Space Categories



-  Site Area
79,843m²
-  A Parkland & Riverside Walks
60,030m²
-  B. Semi-Private Communal Open Space
1,204m²
-  C. Public Open Space
9,954m² · 12.6% of resi. site area
-  D. Private Gardens
15,196m²




Public Park / Open Spaces

The design brief is to promote a range of high quality Public Open Spaces which cater for the recreational and amenity requirements of future residents of all age groups within the Plan lands.

The Public Open Spaces have been developed with with an integrated path systems that link the new housing scheme with the river walks and ecological habitat areas and the new public park at Moygaddy Towerhouse. We have proposed native woodland tree planting, native transplants & a wild meadow mix to help protect and enhance the natural habitat area.





-  Proposed Shrub Planting
-  Proposed Hedgerow
-  Proposed Wetland / SUDS Areas

Retention and enhancement of biodiversity ensures that the natural, cultural, and health requirements of communities are integrated into the new development.

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

The provision of 585no. trees, along with shrub, wildflower, and bulb planting, spread throughout the built environment, connects the pocket parks with the larger parkland areas, maximising the environmental benefits and habitat creation.

Existing hedgerows are to be retained where possible, along the site boundary around which passive and active open space areas are arranged.






Site Links



The design brief is to develop and integrate public walkways that link the scheme with the existing woodlands and Rye River and Blackhall Little Stream routes that permeate the site.




The river walk park is envisaged as a leading example of sustainable development, that will provide opportunities for habitat management and conservation, recreation, tourism and education.

The primary design intent is for preservation, protection and ecological mitigation of the development, together with the creation of new breakout spaces in the park which will allow for interactions with the diverse landscape.

-  Greenway
-  Primary Links
-  Secondary Links





-  Pedestrian Paths
-  Homezone Areas
-  Riverside Walk

Connectivity




The pedestrian and cycle network for the proposed development aims to facilitate legible and comfortable movement within the site and to surrounding opportunities with the wider parklands.

The river walk park is envisaged as a leading example of sustainable development, that will provide opportunities for habitat management and conservation, recreation, tourism and education.

The primary design intent is for preservation, protection and ecological mitigation of the development, together with the creation of new breakout spaces in the park which will allow for interactions with the diverse landscape.





-  Primary - Main Link Street
-  Secondary - Local Street
-  Tertiary - Homezone - Pedestrian Priority

Street Hierarchy

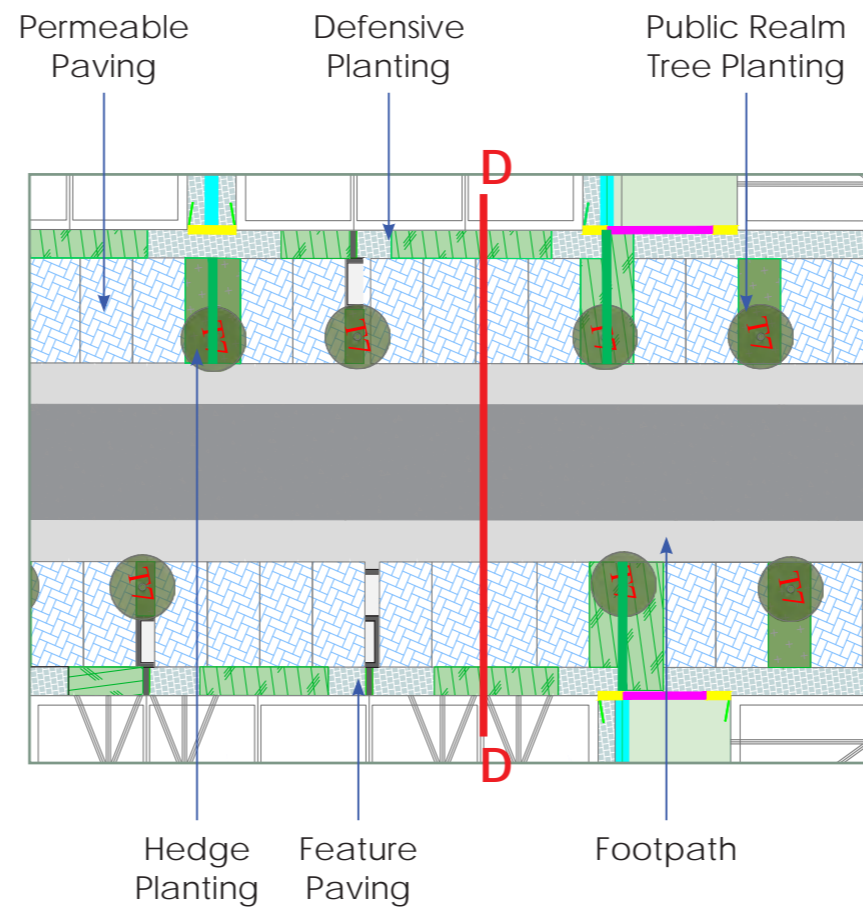
The street network for the proposed development aims to provide a permeable street layout that emphasises pedestrian and cyclist priority with a clearly defined hierarchy of street typologies.

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

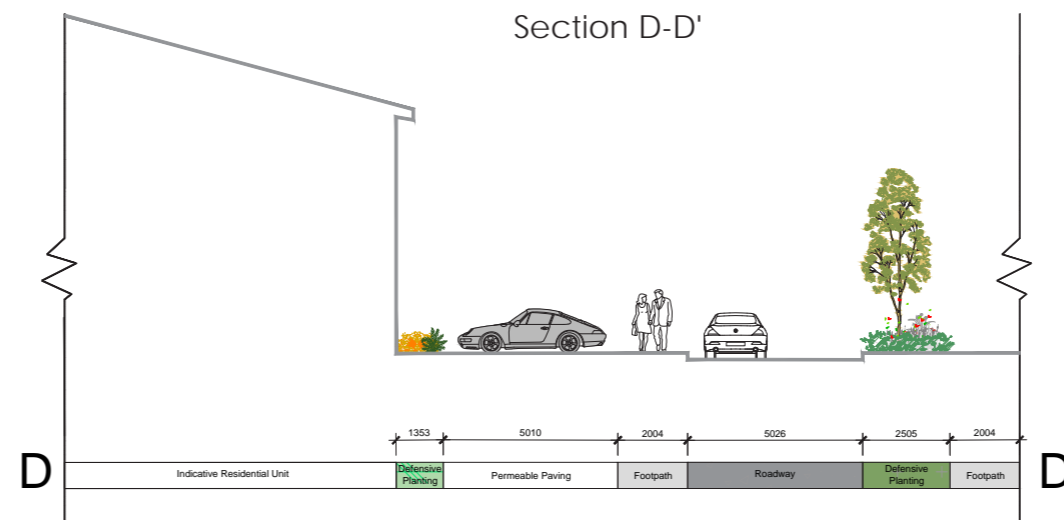


Road Treatments

Main Link Street



Primary - Main Link Street

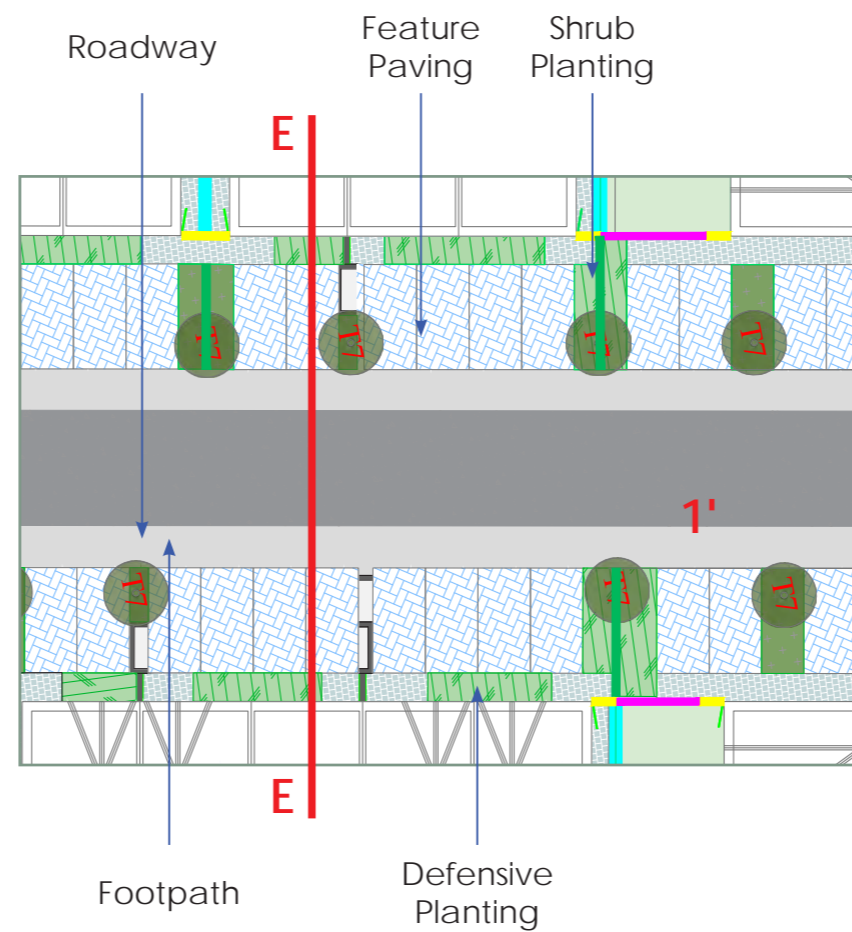


- Public path On Both Sides
- Cyclepath/Route
- Public Trees
- Trees (house side) in Public Domain

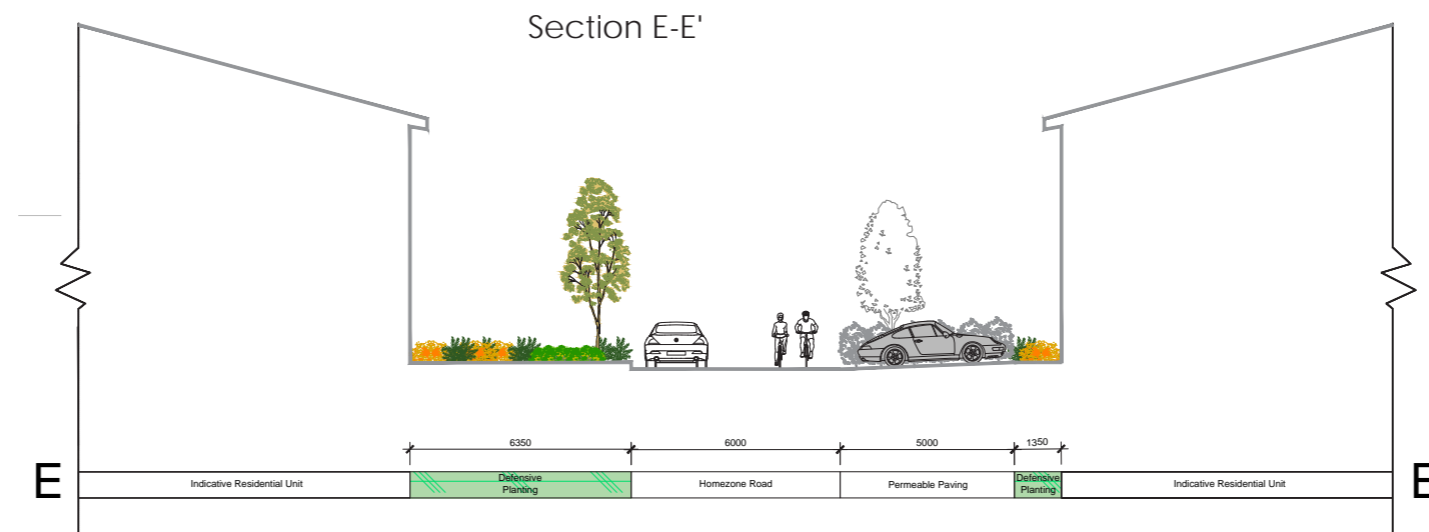


Road Treatments

Local Street



Local Street



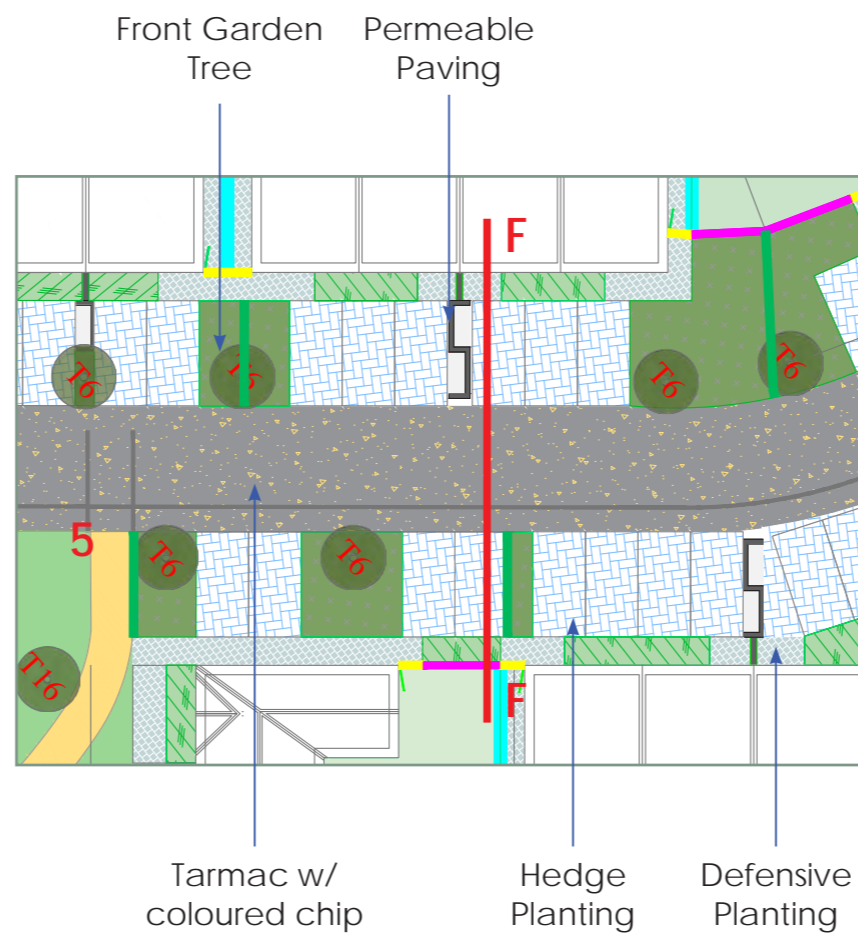
- Public Path (on both sides of road)
- Public Realm Tree Planting



Homezone - Pedestrian Priority

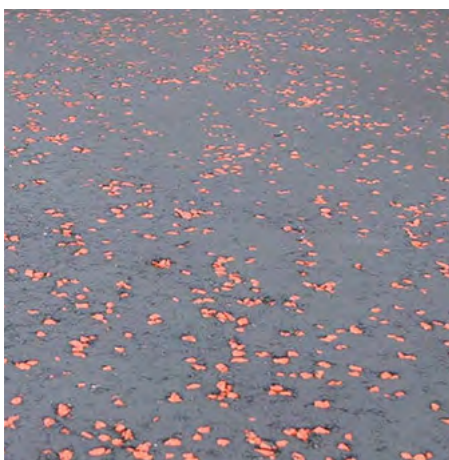
Quieter streets are defined by a homogeneous shared surface providing pedestrian priority (6m width) with kerb delineation. Shared street provision: pedestrians and cyclist share carriageway with vehicles in a low traffic speed and a low traffic volume environment.

Proposed Planting to include front garden tree, public realm tree, boundary hedge, defensive shrub planting.

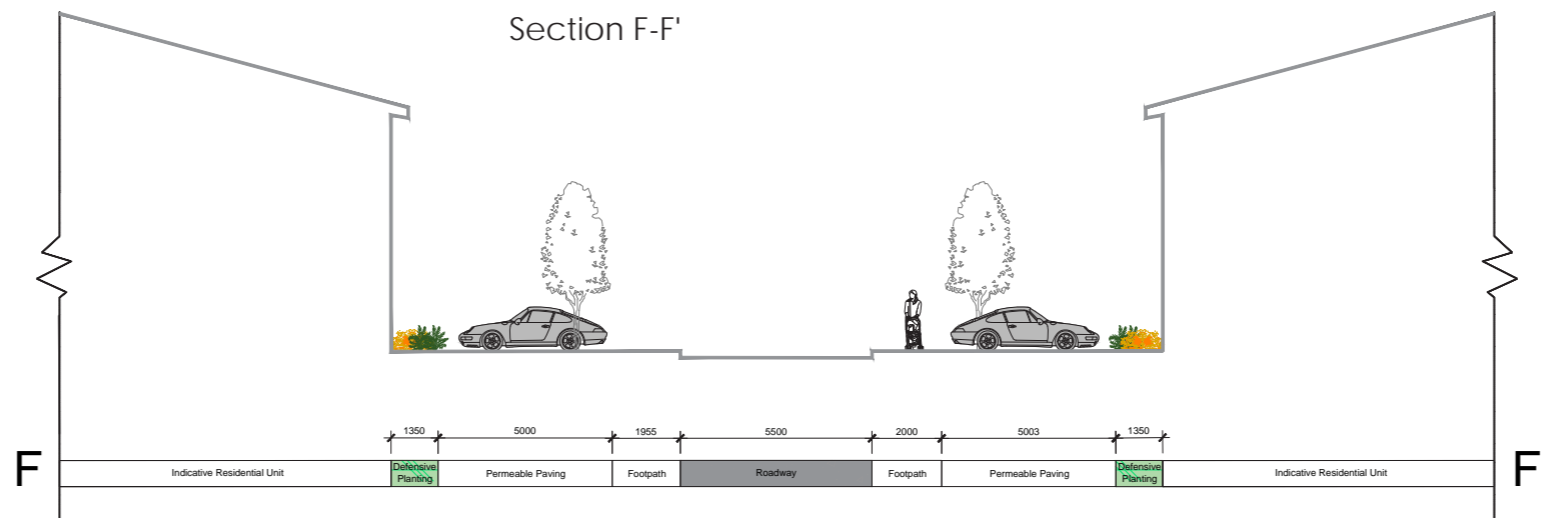


Homezone Pedestrian Priority

Homezone Shared Surface



Tarmac w/ coloured chip



- Shared surface / Pedestrian priority
- Tree to Front Garden
- Coloured tarmac with stone chip
- Path in same material as road.



Boundary Treatment

Plan



BOUNDARY TREATMENT


-  **Feature Wall (2m high)**
Stone or Wet dash with block finish or similar approved
-  **Residential Boundary Fence (1.8m high)**
Timber panel & concrete post fence or similar approved
-  **Steel Railing (1.2m high)**
(3 Bar Powder Coated Black) or similar approved.
-  **Gate Access to Back Gardens (1.8m high)**
Solid Tongue and Groove Scandinavian Spruce Gate or similar approved
-  **Structural Hedgerow (450mm topsoil depth / 100cm single row)**

| Species Name | Specification | Centres. |
|--------------------------|------------------|----------|
| <i>Prunus lusitanica</i> | c/g 3L 100cm ht. | 500mm |
-  **Timber Post and Tension Mesh Fence**
To TII standard: SCD-00321 or similar approved




Structural Hedge Planting 




Concrete Post & Wooden Panel Fence 



Timber Post and Tension Mesh 



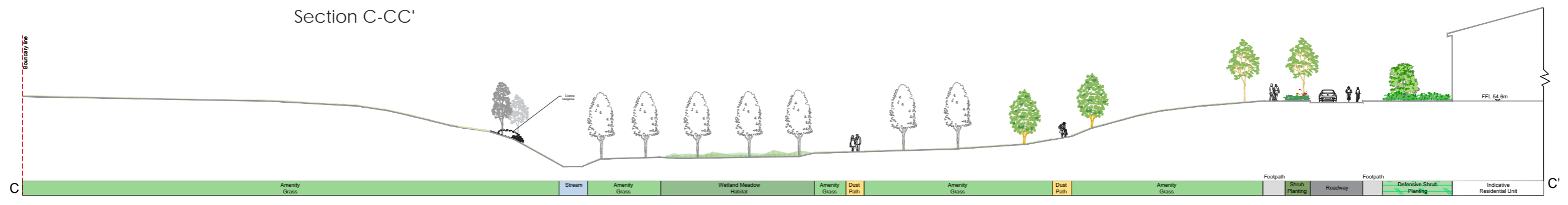
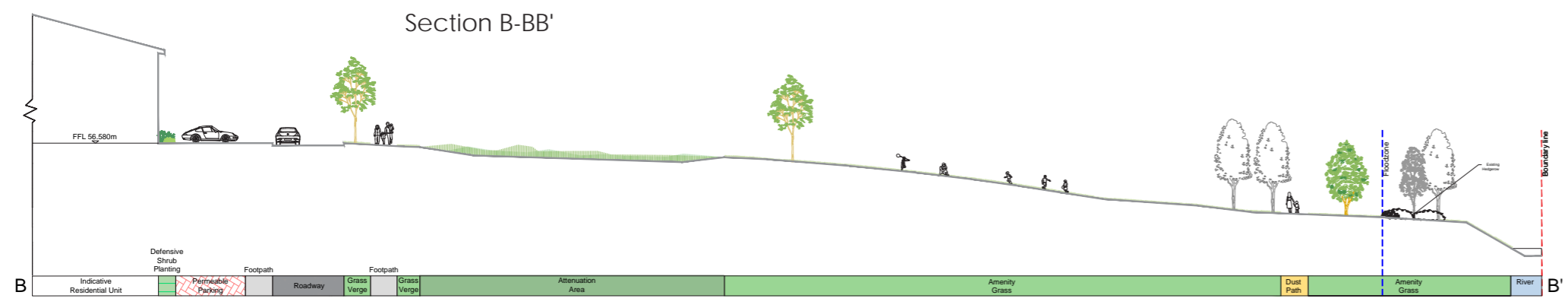
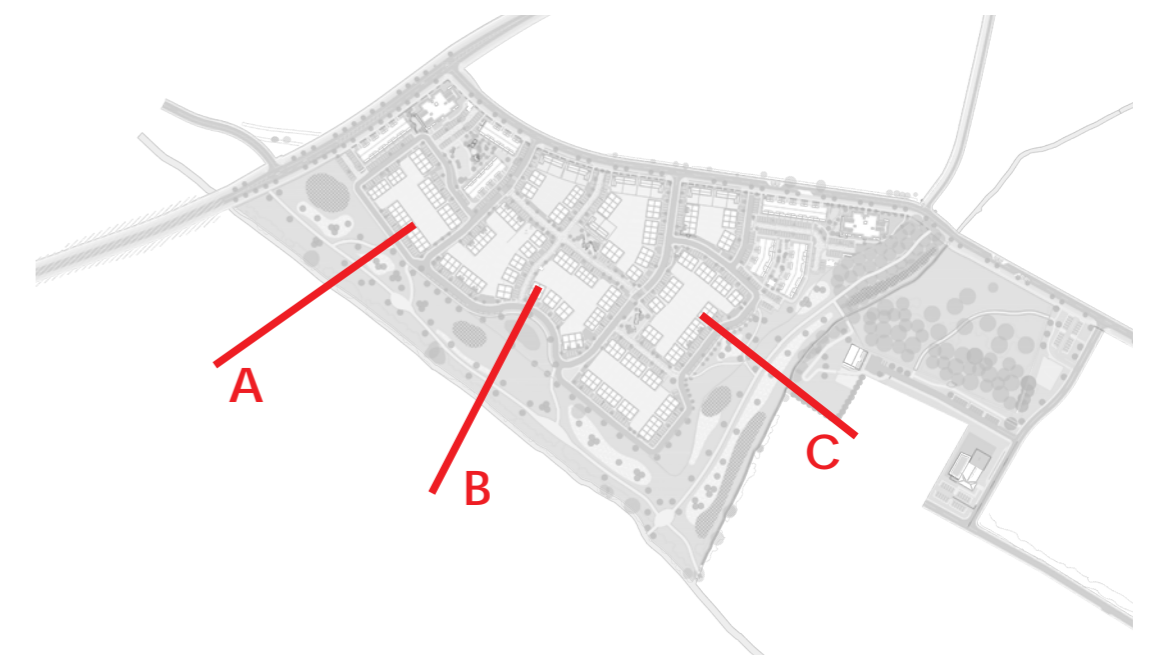
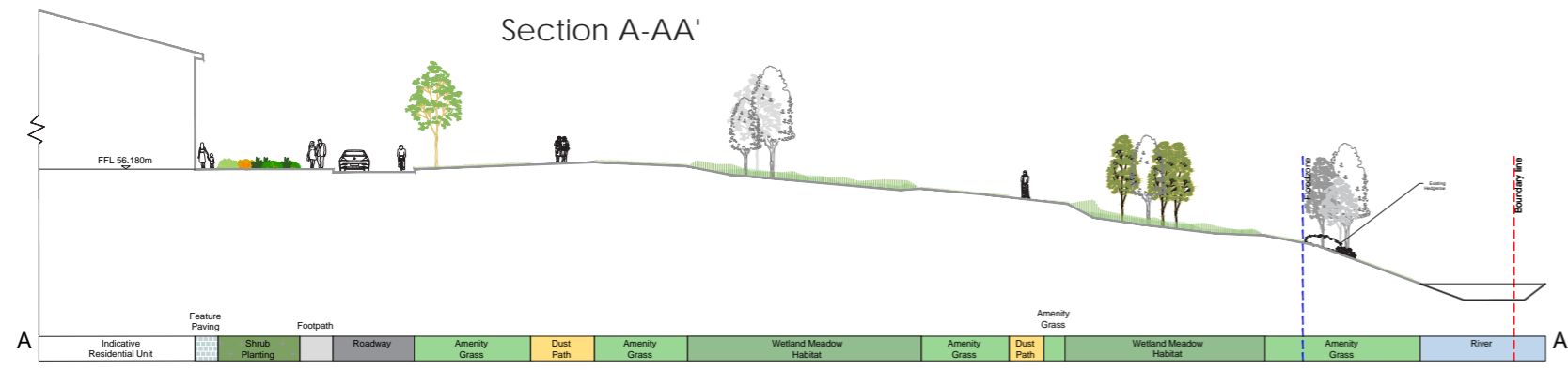
Parkland Railing 



Stone Feature Wall 



Site Boundary Sections



Concept Development

Parkland Mood Board



Flood-Resilient Park with Riverside Walks



Seating



Wildflower Meadows



Natural Play Spaces



Park Entrance



Seating Areas



Wetlands Bridge

