

Barnsley West - Employment Site

Landscape Strategy



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P11754-00-001-GIL-0708 Barnsley West - Employment Site Landscape Strategy

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1.0 Introduction

This Landscape Strategy document has been prepared by Gillespies on behalf of Strata Sterling Barnsley West Limited (the Applicant) in support of a hybrid planning application for employment development (Ref 2021/1089) to the south of the allocated Barnsley West site (Refer to adjacent plan). The remaining parcel of Barnsley West is subject to a hybrid planning application for residential development with 1,560 homes, strategic link road, Primary school, shops and community facilities and a local centre. The two applications will collectively deliver a comprehensive strategic development in line with the adopted Barnsley's Local Plan 2019 and adopted Masterplan Framework 2019 for the site.

This document focuses on the landscape proposals and design principles for the employment site however it should be read in conjunction with the Barnsley West Landscape Design Statement which sets out the landscape proposals and overarching landscape strategies for the whole Barnsley West site.



Planning Application Boundaries for Barnsley West

2.0 The Parameter Plan

The hybrid planning application for the employment site seeks the approval for the following development:

Planning Application reference 2021/1089

Hybrid planning application for employment development, including:

a) Detailed planning permission for:

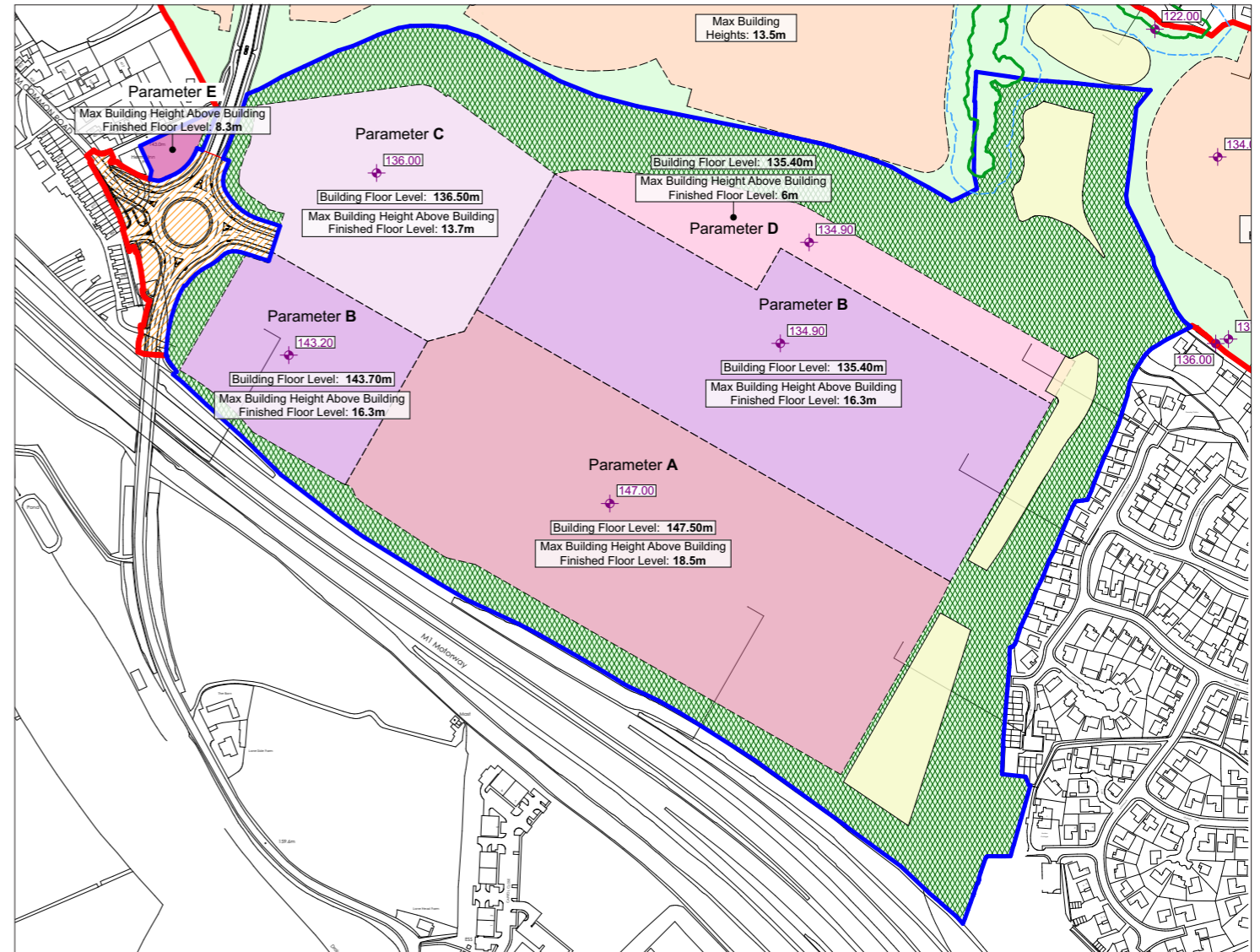
- earthworks to create development platforms;
- drainage features, including dry retention basin, embankments, and bunds;
- strategic landscaping, ecological areas; and
- access.

b) Outline planning permission for:

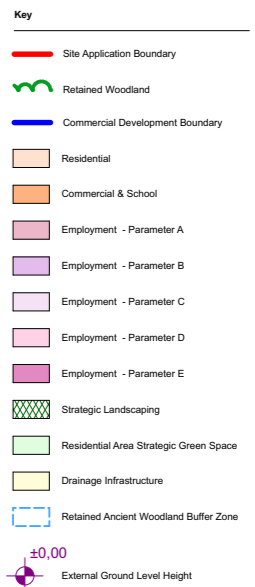
- employment (Use Classes E, B2 and B8 with ancillary office) and;
- associated servicing and infrastructure works including car parking, vehicle, pedestrian and cycle circulation, plot landscaping, noise mitigation, drainage features and all associated infrastructure”

As part of the design development and planning submission a Landscape and Visual Impact Assessment (LVIA) has been carried out to identify the effects of the development proposals for Barnsley West. The LVIA in conjunction with earthwork design has informed the layout of the employment site, the scale and heights of the development parcels. The Parameter Plan shown adjacent sets out the extent of development and the strategic landscape to mitigate the visual amenity of near by residential and recreational receptors and break up massing from mid to long range views.

It is proposed that the Strategic Landscape, sustainable drainage infrastructure and access proposals will be delivered early following completion of the earthworks and the creation of development plateaus in order for the planting to establish as soon as possible. These areas are shown as dark green and yellow on the Parameter Plan and delivering these areas in advance of the employment development will bring forward the screening mitigation function, biodiversity improvements and recreational benefits to the local communities. The landscape within the employment parameter areas will be subject to reserved matters application and subject to the strategies within this document and the Barnsley West Landscape Design Statement.

























Parameter Plan for the Employment Site



3.0 Strategic Landscape Masterplan

LEGEND

GENERAL

-  Site Boundary
-  Drainage Easement (6m as indicated)
-  Active Travel Route (multi-user path with max gradient of 1:21)
-  Recreational Route (Non multi-user path)
-  Steps
-  Informal Play
-  Community Orchards
-  Existing Trees Retained
-  Trees
-  15m Buffer for Ancient Woodland
-  Ancient Woodland Retained
-  Existing Hedgerow Retained
-  Proposed mixed 'Native' Hedgerow / Hedge
-  Permanent Water Body
-  Wet Meadow
-  'Traditional' Wildflower Meadow
-  Amenity Grass (Short mown)
-  Species Rich Grass
-  Rocky Gorse / Shrub
-  Wet Scrub Planting
-  Native Shrub / Scrub Planting
-  Woodland Planting (Mixed deciduous & evergreen species)



4.0 Strategic Landscape Proposals

The landscape falls steeply to the north and development plateaus have been created within the topography to reduce the effects of the massing within the landscape (Refer to 5.1 Levels Strategy). The Strategic Landscape encloses the Employment Parameter Areas and will provide screening reducing the likely landscape and visual effects of future employment development. The landscape to the north is planted on a bund to increase the height of woodland planting for screening purposes.

To the east the landform slopes to the west with a generous buffer of woodland planting to screen the future development from residential properties to the west of Pogmor. To the south the development plateaus are set lower than the M1 motorway and a woodland buffer is proposed to augment the existing motorway corridor planting.

Extensive woodland and structure planting are proposed to screen the appearance of employment buildings and reduce the visual impacts to the surrounding existing residents and new residents to the north. The landscape proposals include native woodland tree planting, scattered trees, scrub and species rich grassland providing a varied sequence of habitats and contributing positively to the Biodiversity Net Gain within the site. (Refer to 5.4 Planting Palettes for more information)

New recreational footpaths connect with existing Public Rights of Way (PRoW) to the east providing new landscape amenity for both the existing and new residential communities and the employment site staff and visitors. Attractive routes encourage walking and cycling connections to the new link road and emerging development, the new informal play area will provide a local facility for Pogmor residents to enjoy.

The three dry detention basins located within the strategic landscaping area promote sustainable water management on site. Small areas of permanent water bodies are proposed in the basins with the introduction of wet scrub and meadow planting to promote a rich variety of habitats and improve the species diversity of the site.



Northeast Area of Strategic Landscape (Refer to Legend on Page 5)

5.0 Landscape Strategies

5.1 Level Strategy

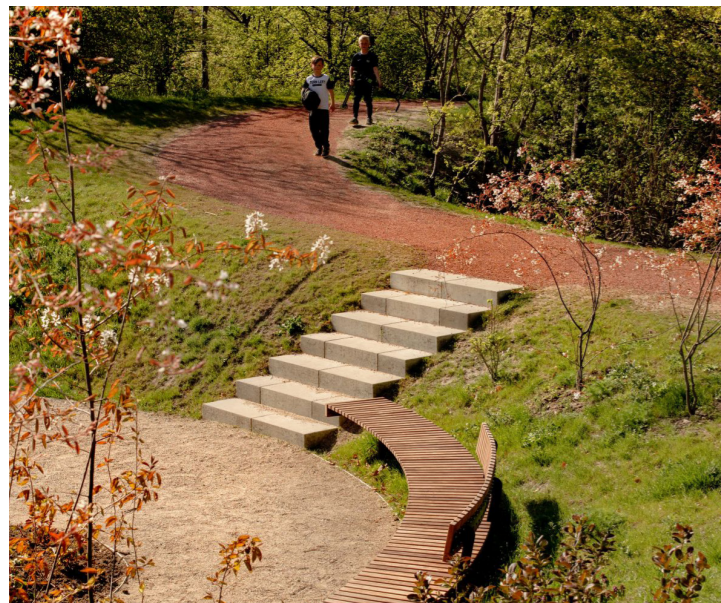
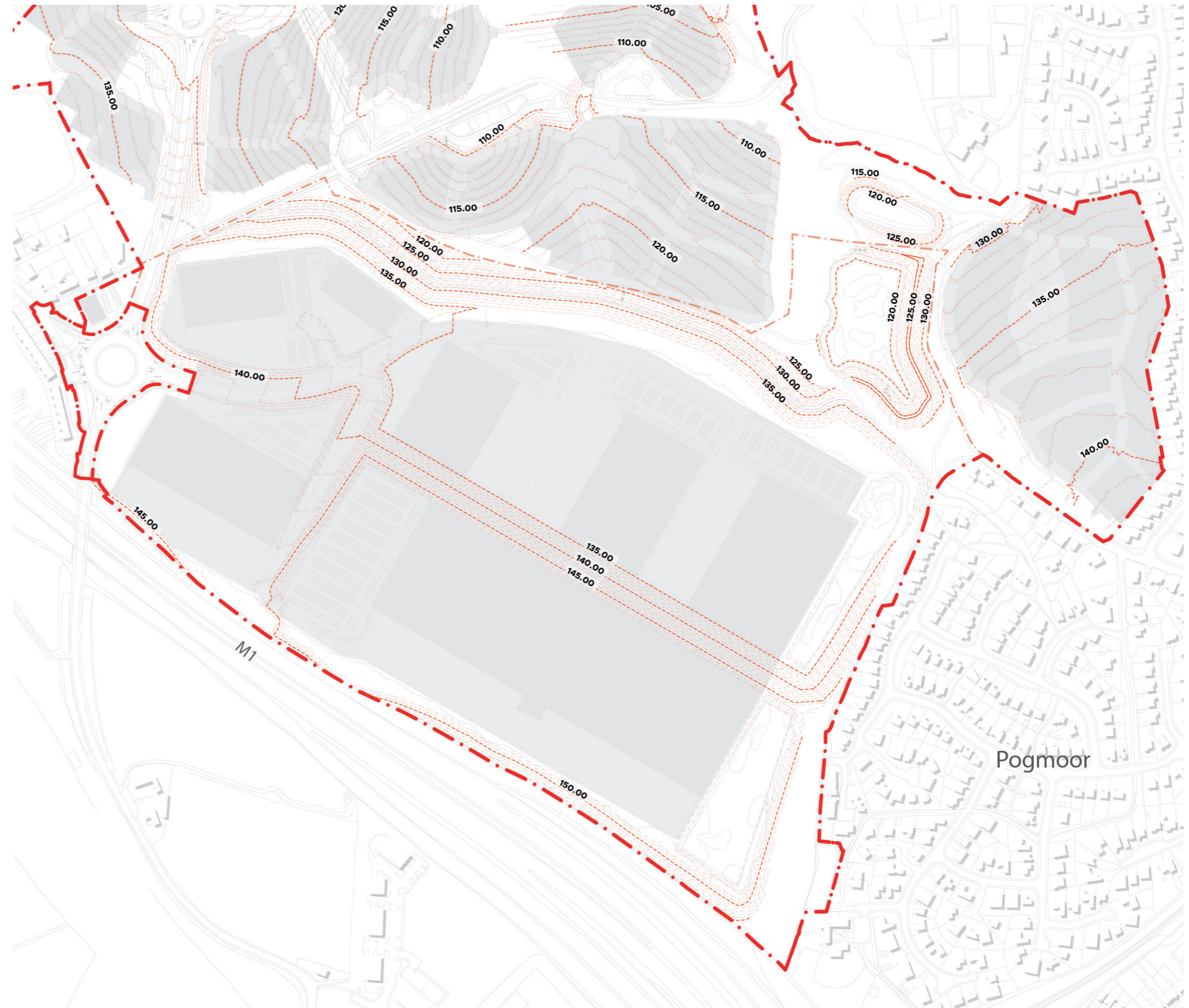
The landscape falls steeply to the north and west. The earthworks strategy has created four development plateaus set below the M1 motorway to the north and Pogmoor to the east. The plateaus fall gently northwards and are set within the topography to reduce the effects of the massing within the landscape.

A large 1:3 embankment separates the main development plateaus running northwest to southeast across the site. To the north the strategic landscape is sited on an additional 1:3 embankment with bunding to the top of the bank to assist in screening. A level section to the middle of the embankment facilitates a new footpath amongst the woodland planting and scattered trees and meadow.

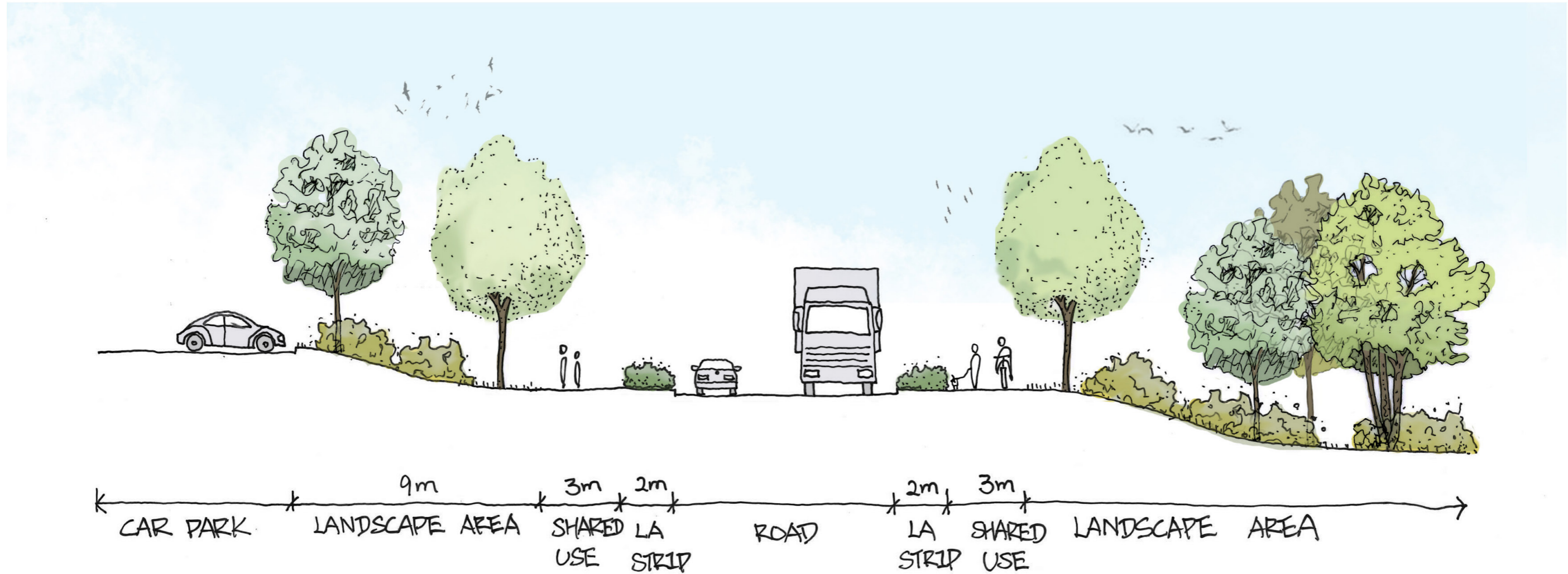
To the east of the site a series of detention basins have been created below the development plateaus to manage the surface water sustainably (Refer to 5.3 SuDs Strategy).

New footpaths are gently sloping with gradients no steeper than 1:21, stepped access has been provided between the new residential area to the north and the footpath on the northern embankment.

A series of proposed site sections are shown on drawings P11754-00-001-GIL-0220 (sheet 1) to 0228 (Sheet 9).



Example of gently sloped footpaths & stepped access in the landscape



This illustrative section demonstrates the indicative landscape strategy for within the employment site. The aspirations are to provide green pedestrian and vehicular access corridors with tree lined access roads, ornamental planting and grass verges. Landscape areas provide buffers between car parking and active travel routes and address level changes. Soft landscaping in conjunction with SuDS strategies will manage surface water, slowing the flow and providing attractive habitat creation opportunities and enhancing the biodiversity further.

5.0 Landscape Strategies

5.2 Connectivity Strategy


The employment site is well connected via Active Travel routes from the west including new multi-user paths alongside the new link road. To the east the existing footpath network from Pogmoor is boosted by new paths running east west on the new employment embankment and north of the site within the proposed residential area. The footpath networks has been developed in conjunction with the residential application and overarching Strategic Landscape Masterplan for the entire Barnsley West Site.

Active travel routes within the landscape will be surfaced in self binding gravel, on road footpaths will be asphalt and internal footpaths within the employment site will be subject to detailed reserved matters application and likely to be a combination of asphalt and concrete aggregate pavers.

For Public Rights of Way Proposals and Phasing refer to the Barnsley West Landscape Design Statement.



KEY:


Key Active Travel Route / Multi-user Path
(off-road / segregated)


Key Active Travel Route (on road)


Key Recreational Route (footpath only)


Existing Connection


Proposed Connection

5.0 Landscape Strategies

5.3 SuDS Strategy

The Sustainable Drainage System (SuDS) strategy for the Employment Site has been developed with the wider Barnsley West drainage strategy. Three dry detention basins have been proposed to the east of the site and connect into the wider network of detention basins.

Surface and rainwater management within the site will be via a mix of swales and piped drainage to feed the detention basins.

The detention basins will include permanently wet areas with areas of wetland plant species and wetland meadow seed mixes to contribute to improving biodiversity within the employment site.



Example of dry detention basin

5.0 Landscape Strategies

5.4 Planting Palettes

NATIVE MIXED WOODLAND AND TREE PALETTE

General Principles:

- The application of this planting style will occur where landscape and visual mitigation screening is required, primarily to the southern, eastern and northern boundaries.
- Proposed mix woodland will be densely planted. Key areas identified for these include steep 1:3 slopes and embankments.
- This mixed woodland will complement the existing woodland and enhance green corridors and connections across site.
- These woodlands are proposed to have a mix of deciduous and evergreen species which will provide, cover, shade and screening throughout the year.
- Quick to establish species such as birch will allow species such as oak to mature and form dense canopies over time.

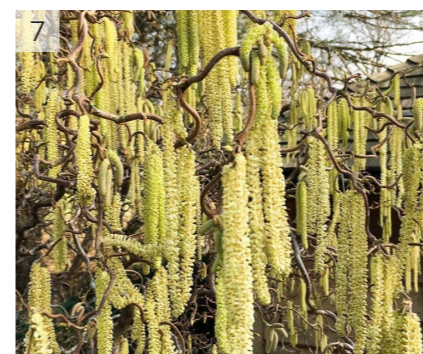
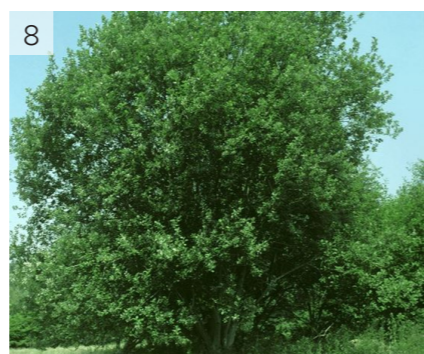
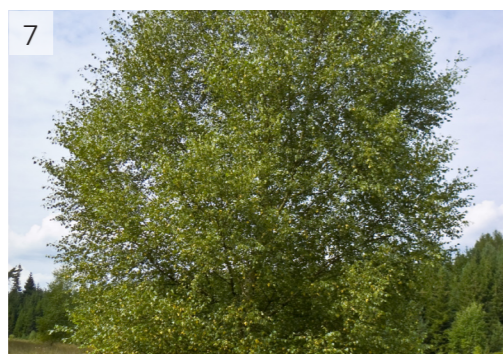
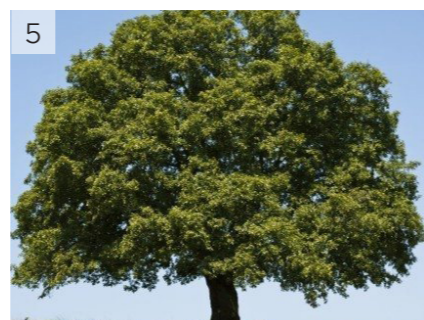
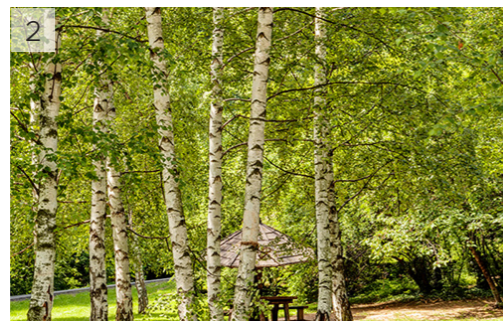
1. Acer campestre (Field Maple)
2. Betula pendula (Silver Birch)
3. Betula pubescens (Downy Birch)
4. Quercus petraea (Sessile Oak)
5. Quercus robur (Pendunculate Oak)
6. Alnus glutinosa (Alder)
7. Betula pubescens (Downy Birch)

NATIVE MIXED WOODLAND PALETTE - UNDER-STOREY

General Principles:

- These plants will be used in conjunction with the woodland planting to provide species diversity, greater food sources and shelter for wildlife and denser screen planting.

1. Sorbus aucuparia (Rowen)
2. Crataegus monogyna (Hawthorn)
3. Ilex aquifolium (Holly)
4. Prunus avium (Wild Cherry)
5. Sambucus nigra (Elder)
6. Sorbus aria (Common whitebeam)
7. Corylus avellana (Hazel)



NATIVE MIXED WETLAND SCRUB AND TREES PALETTE

General Principles:

- The application of this planting style will occur within the wetter areas to the north east of the site.
- Native mixed wet scrub will be used within the proposed detention basins. These basins have been designed to be seasonally wet but will during periods remain dry. The requirements of these basins to flood has resulted in the proposal of the following species.
- Each species has a number of traits which will enhance biodiversity and create new habitat that will add visual interest to the otherwise low vegetation of the wet meadows.
- Native wet scrub will be planted in scattered clumps of vegetation throughout the basins.

1. *Alnus glutinosa* (Alder)
2. *Betula pubescens* (Downy Birch)
3. *Salix alba* (White willow)
4. *Salix cinerea* (Grey willow)
5. *Salix fragilis* (Crack willow)

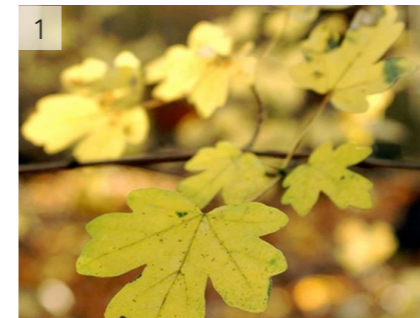


NATIVE MIXED HEDGEROWS PALETTE

General Principles:

- Provided to mitigate loss of existing hedgerows
- Proposed hedgerows are of critical importance to creating and enhancing wildlife corridors and these new native mixed hedgerows will be scattered throughout areas of meadow, glade and greens to complement surrounding landscape and enhance biodiversity.

1. *Acer campestre* (Field Maple)
2. *Corylus avellana* (Hazel)
3. *Crataegus monogyna* (Hawthorn)
4. *Lonicera periclymenum* (Honeysuckle)
5. *Ilex aquifolium* (Holly)
6. *Prunus spinosa* (Blackthorn)
7. *Rosa canina* (Dog Rose)
8. *Sambucus nigra* (Elder)



NATIVE SCRUB PLANTING PALETTE

General Principles:

- Native scrub planting will be used to create new habitat scattered throughout the meadows, glades and near woodland edges to enhance biodiversity and add seasonal interest and height to the landscapes.



1. Corylus avellana (Hazel)
2. Crataegus monogyna (Hawthorn)
3. Ilex aquifolium (Holly)
4. Prunus spinosa (Blackthorn)
5. Rosa canina (Dog Rose)
6. Sambucus nigra (Elder)

ROCKY GORSE / SCRUB PLANTING PALETTE

General Principles:

- The application of this planting style will occur within the 1:2 steep rocky banks around the Southern end of the landscape masterplan.



1. Ulex europaeus
2. Cytisus scoparius

WILDFLOWER MEADOW

Meadow mix to be used for drier areas on the site such as the meadow parkland:

EM5 - Meadow Mixture for Loamy Soils

<https://wildseed.co.uk/mixtures/view/6>



WET MEADOW

Meadow mix to be used for wetter areas on the site such as the detention ponds:

EM8 - Meadow Mixture for Wetlands

<https://wildseed.co.uk/mixtures/view/9>



SPECIES RICH GRASSLAND

Species rich meadow mix to be used for drier areas on the site such as the embankments:

WFG20 Eco Species Rich Lawn

<https://germinalamenity.com/wfg20-eco-species-rich-lawn>



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