# NW Bicester Exemplar

Local Centre
Landscape and Green Infrastructure Strategy
24<sup>th</sup> April 2015



# Project Team

# Client

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# 1. Introduction

### Introduction

This Landscape and Green Infrastructure Strategy document has been prepared on behalf of the applicants A2Dominion Developments Ltd, to support the full planning application for the development of the North West Bicester Exemplar Local centre.

This statement has been produced to assist the Cherwell District Council in their determination of the application and to provide others who are interested in the application with background information regarding the site and the proposal.

This Landscape and Green Infrastructure Strategy should be read in conjunction with the Local Centre Landscape Masterplan and Planting Plan and the Design and Access Statement and associated drawings.

In July 2012, Cherwell District Council (CDC) granted planning permission (Ref 10/01780/HYBRID) for the development of 21 ha of land within the North West Bicester Masterplan Area, the 'Exemplar Phase'. The permission for this hybrid application included detailed consent for 393 residential homes, roads and infrastructure including an Energy Centre. It also granted outline permission for a neighbourhood centre comprising non-residential use including community facilities, local retail, a pub and office space and a new primary school.

This application for the Exemplar Local Centre forms a subsequent application to the original Exemplar Phase application as referenced above; relative to the local centre located adjacent to the first part of the development which is currently under construction.

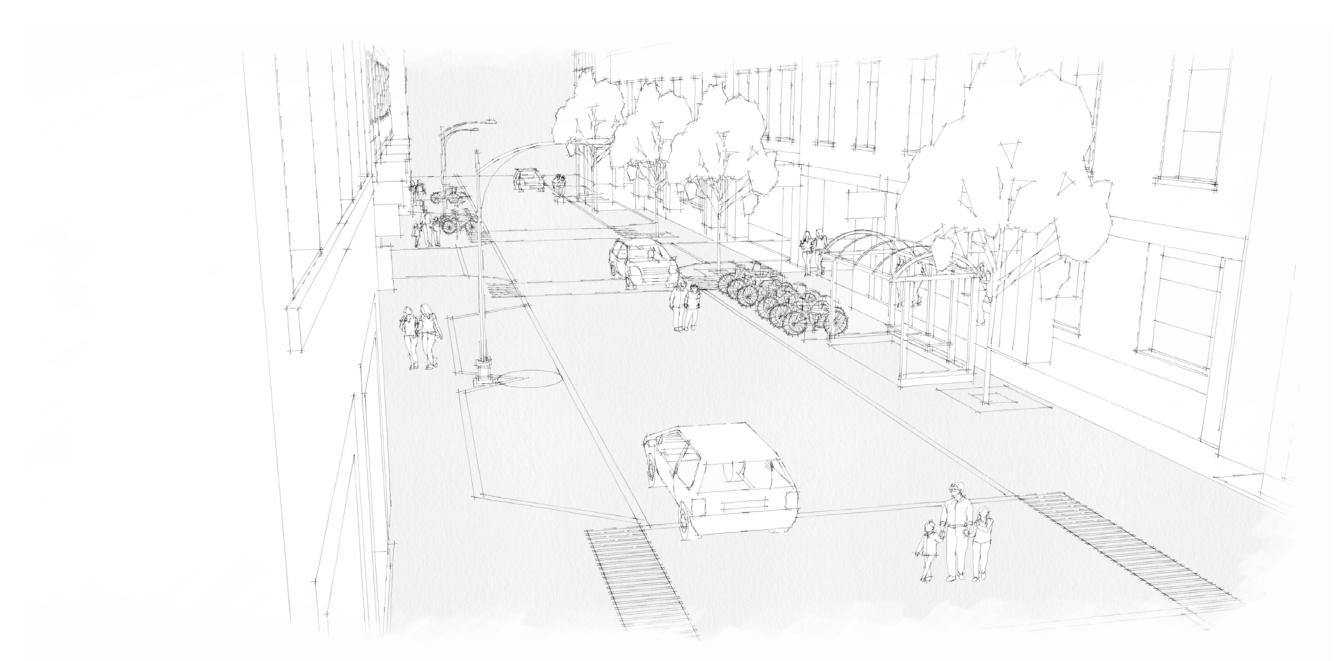
The Development description is as follows:

Development of a new local centre comprising a 503 sqm convenience store (Use Class A1), 444 sqm of retail units (flexible Use Class A1/ A3/A5), 664 sqm pub (Use Class A4), 523 sqm community hall (Use Class D1), 869 sqm nursery (Use Class D1), 614sqm of commercial units (flexible Use Class A2/ B1/ D1) with associated access, servicing, landscaping and parking.

The landscape proposals comprise a shared surface street, parking courts/service yard, perimeter planting/hedgerow buffer and green roofs.

### Context

The site of the local centre is central within the North West Bicester Exemplar development. The application site is adjacent to a river corridor that will be enhanced for ecology, recreation and pedestrian/cycle routes, and is bounded by an existing hedgerow on its southern edge. The residential area surrounding the site is currently under construction.



Visualisation of street proposals, looking west

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# 2. Landscape Strategy

### Landscape Strategy

The landscape scheme comprises a shared surface street, parking courts/service yard, perimeter planting/hedgerow buffer and green roofs.

### Shared surface street

A shared surface environment will be created that provides a high quality, distinctive street that is welcoming to pedestrians, cyclists and motorists.

Natural stone will provide a high quality aesthetic and will be extended across the full width of the street. The carriageway will be delineated through the use of a smaller size paviour and a 50mm upstand kerb in coordinating material. The upstand kerb is designed to assist with navigation for visually impaired users. Flush formal crossing points with tactile paving in coordinated material are provided at strategic locations.

Carefully chosen cycle parking, seating and lighting complete the street scene.

### Parking Courts/Service Yard

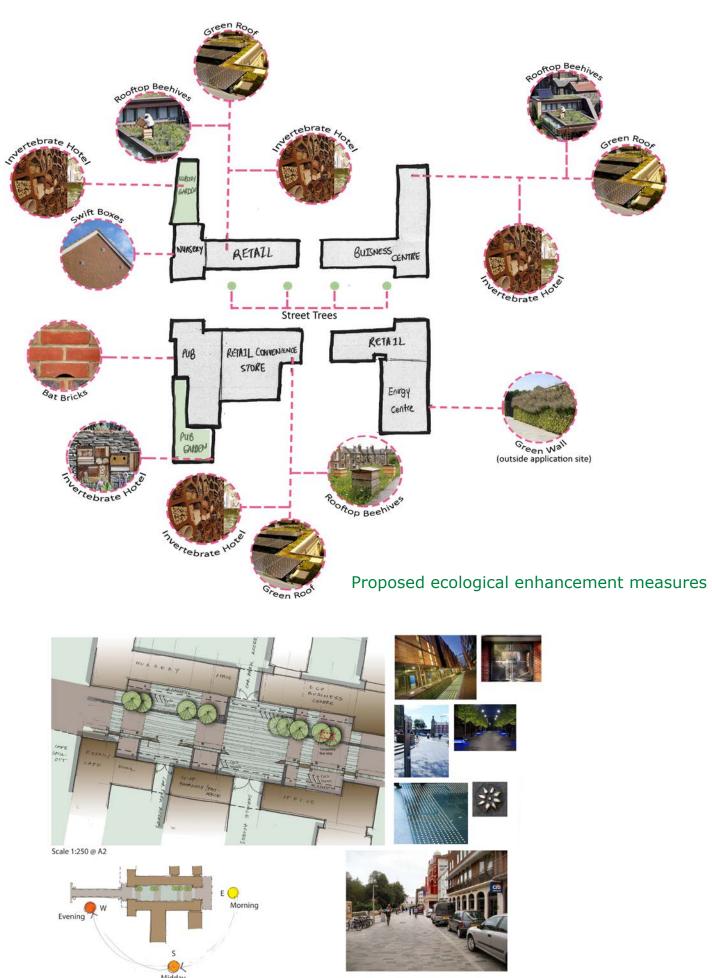
Parking courts are designed to be easily navigated, with paving colour defining car parking bays, pedestrian routes and cycle parking zones. Cycle parking for staff will be provided within secure enclosures, with Sheffield stands in the open, provided for visitors use.

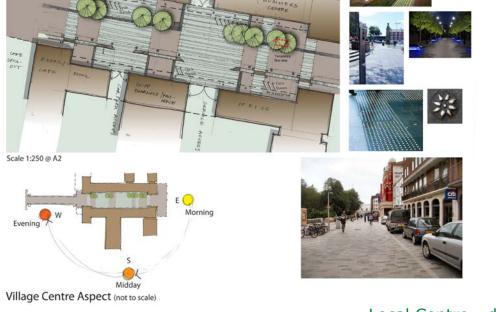
### Perimeter Planting/Hedgerow Buffer

An existing hedgerow (to the south of the application site) is to be protected by buffer planting that comprises native trees, wildflowers and grasses. See section 6 of this report for further detail.

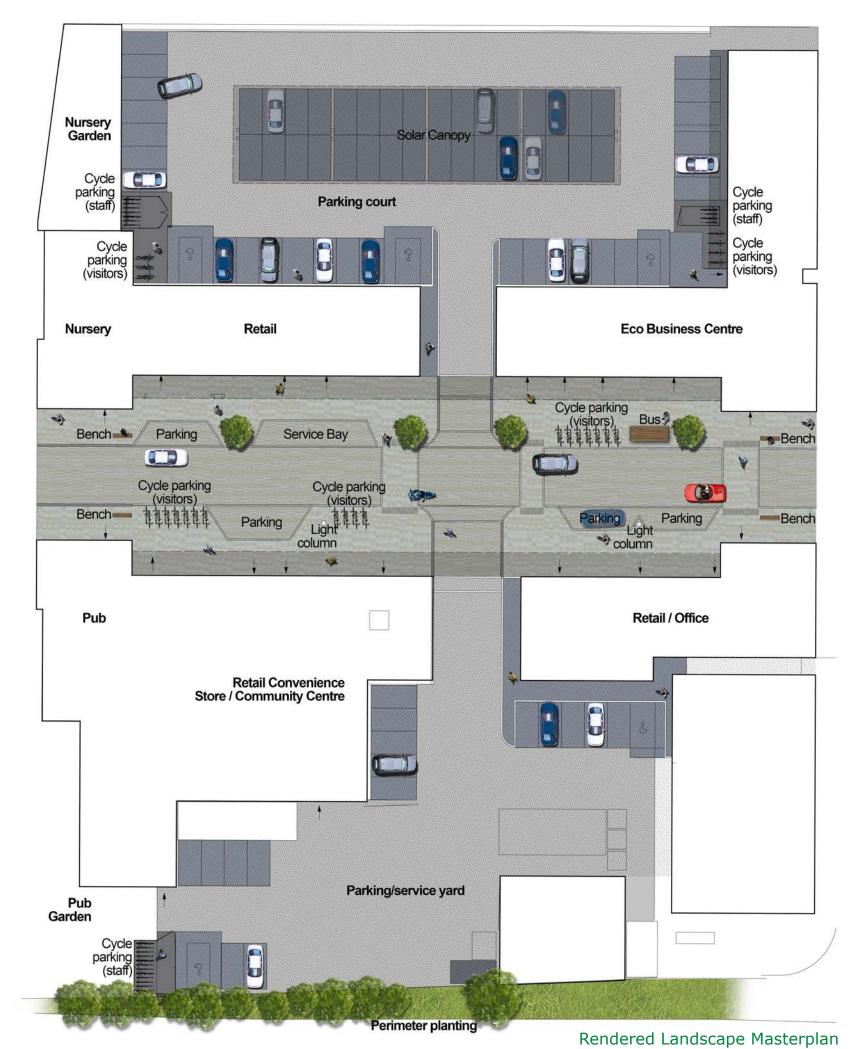
### Green Roofs

Sedum green roofs will be provided, interspersed with roof top photo voltaic panels. A number of other features are proposed on the rooftops in order to enhance biodiversity such as bee hives and invertebrate hotels. See section 4 of this report for further detail.





Local Centre - design development



# 3. Precedents

Examples of UK shared surface streets have been considered in the creation of the scheme. The streets pictured on this page demonstrate careful use of materials and level changes used in creating this type of environment.

Fishergate, Preston





New Road, Brighton





oynton







# 4. Biodiversity

The land affected by the Local Centre comprised bare mud covered by cabins, storage areas and access routes associated with ongoing works on the Exemplar Phase. This land was of negligible value to nature conservation. Whilst works on the Exemplar Phase are on-going fencing will be in place to ensure that the species-rich hedgerow and its associated buffer adjacent to the southern boundary of the Local Centre site is protected from works on site. Similar fencing would be in place whilst the Local Centre is constructed to ensure that the hedgerow and its buffer remain protected. Measures have been implemented as part of the Construction Environmental Management Plan for the Exemplar Phase to protect the wider environment including the adjacent river corridor during the construction works. These measures would also be implemented when the Local Centre is under construction.

Features have been incorporated into the design of the Local Centre to deliver a net gain in biodiversity. This includes:

- green- Sedum (stonecrop) roofs;
- 'invertebrate hotels' on the roofs;
- 'invertebrate hotels' incorporated into walls;
- bat boxes/bat brick incorporated into walls; and
- swift boxes and other nesting bird features incorporated into the nursery wall.

The green roofs together with their 'invertebrate hotels' will be beneficial to invertebrates and the fauna that feed on them (principally other invertebrates, birds and bats). The invertebrates themselves provide wider ecosystem benefits for example pollination and the recycling of nutrients. The bat boxes/bricks will provide new roosting sites for bats using the adjacent river corridor. The swift boxes and other nesting bird features provide nesting opportunities on a site where no natural nest sites exist.

By incorporating features of value to biodiversity within the design of the Local Centre this aspect of the Exemplar Phase will deliver a net gain in biodiversity.



Bat brick, precedent image



Roof top bee hive, precedent image



Invertebrate hotel, precedent image



Roof top bee hives, precedent image



Sedum roof, precedent image



Swift boxes, precedent image

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# 5. Materials & Street Furniture

### **Materials**

Materials have been selected to complement the wider NW Bicester Exemplar palette and adjacent building materials. They will provide a high quality aesthetic that offers a distinctive look to the Local Centre street and subtle delineation that will assist with the creation of a shared surface space that is welcoming to all.

Within the north parking court a permeable paving system with variety in colour and materials will enhance legibility. Matching, impermeable paving will be provided in the south parking court/service yard.

### **Street Furniture**

A palette of street furniture has been selected that complements the materials and will provide a practical solution to cycle parking.





Scoutmoor Linear Yorkstone - primary road shared surface







able paving system, bays

Permeable/impermeable paving system, Charcoal - Car parking Grey - Parking courts

Tumbled concrete setts Cycle parking bays



Proposed building elevation



**Bus Shelter** 



Sheffield Cycle Stand - Tiered secure cycle Stainless steel



compound



# 6. Planting

The street trees specified are Carpinus betulus 'Franz Fontaine'. They match trees specified on the primary road that fall outside this application (but are within the NW Bicester Exemplar) - ensuring continuity. They have a small predicted canopy size of 3m diameter, appropriate to this space.

### **Hedgerow Buffer/Perimeter Planting**

To the south of the site, native trees and grasses are proposed adjacent to an existing hedgerow (hedgerow is outside of this Application but within the NW Bicester Exemplar). They form part of the buffer zone to this hedgerow.

Tree species include: Alnus glutinosa (Common Alder) Prunus avium (Wild Cherry) Fagus sylvatica (Common Beech) Acer campestre (Field Maple)

Knautia arvensis Field Scabious Leontodon hispidus Rough Hawkbit

Leucanthemum vulgare Oxeye Daisy

Lotus corniculatus Birdsfoot Trefoil

Onobrychis viciifolia Sainfoin Origanum vulgare Wild Marjoram

Plantago media Hoary Plantain

Sedum montanum orientale

A meadow mixture for chalk and limestone soils is specified as follows:

Wildflowers Poterium sanguisorba - (Sanguisorba Achillea millefolium Yarrow minor) Salad Burnet Anthyllis vulneraria Kidney Vetch Primula veris Cowslip Centaurea nigra Common Knapweed Ranunculus acris Meadow Buttercup Centaurea scabiosa Greater Knapweed Reseda lutea Wild Mignonette Scabiosa columbaria Small Scabious Clinopodium vulgare Wild Basil Daucus carota Wild Carrot Galium verum Lady's Bedstraw Grasses

# Briza media Quaking Grass (w)

Cynosurus cristatus Crested Dogstail Festuca ovina Sheep's Fescue Festuca rubra Slender-creeping Red-Koeleria macrantha Crested Hair-grass

## **Green Roofs**

The buildings are topped by sedum green roofs. The sedum is planted in between rows of solar panels. An indicative species list (the Bauder XF301 Sedum Blanket) is as follows:

Sedum acre Sedum pulchellum Sedum rupestri (reflexum) Sedum album - 'bella d' Inverno Sedum album - coral carpet Sedum sexangulare Sedum spurium - mesemlanthemum = Sedum ewersie SedumKamtschaticum-ellacombianum Delosferma Sedum Kamtschaticum - weinstephaner Sedum spurium - mesemlanthemum =

Sedum verticillatam







Carpinus betulus 'Franz Fontaine' (Street trees)



Sedum green roof

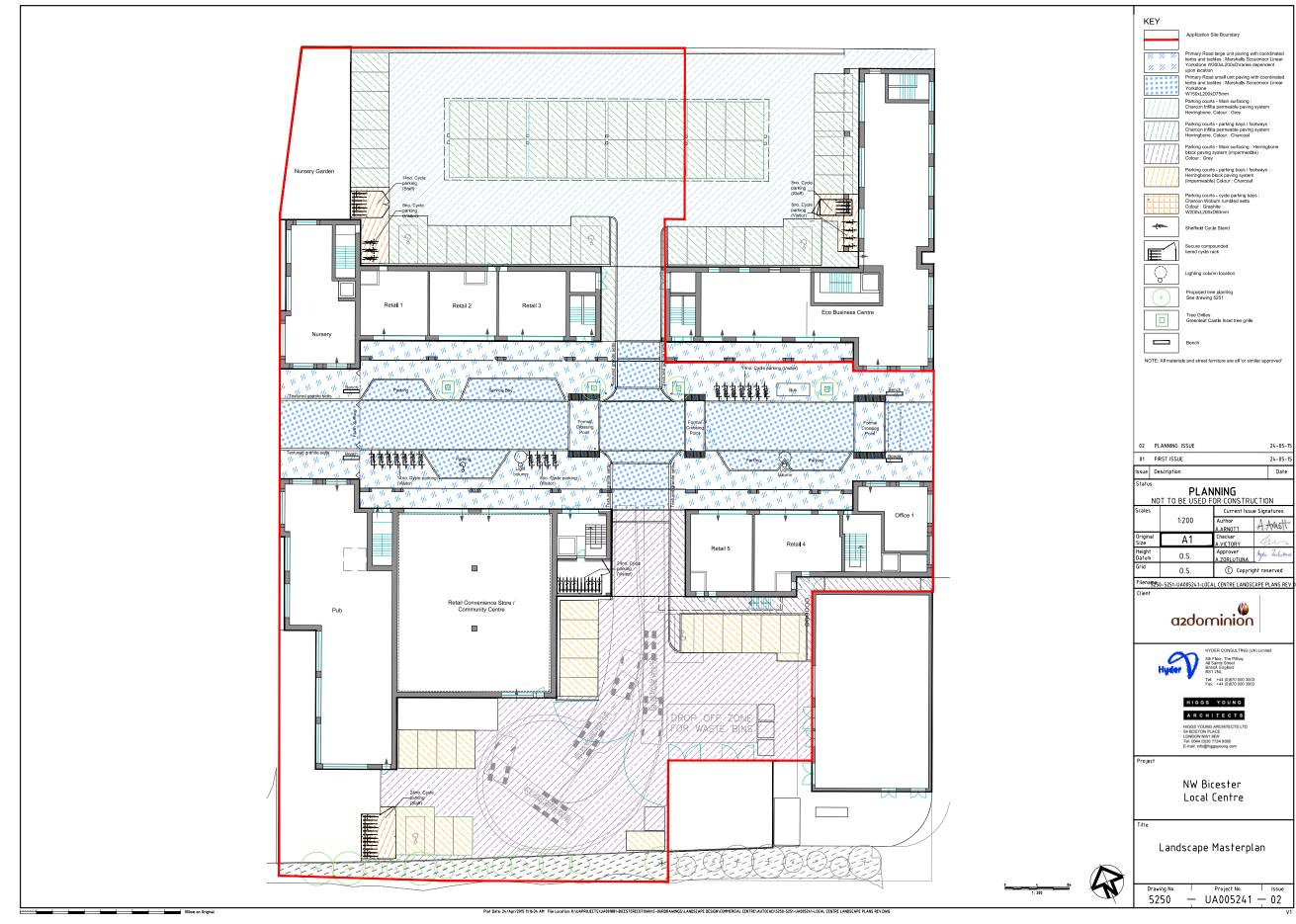




Native tree planting and grasses within hedgerow buffer/perimeter planting

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# 7. Landscape Drawings



**基本基本基本基本** a2dominion DROP OFF ZONE FOR WASTE BINS NW Bicester Local Centre Planting Plan 3no. ALN GLU 1no. ALN GLU 1no. ACE CAM 1no. PRU AVI —— 1no. FAG SYL----Drawing No. | Project No. | Issue | 5251 — UA005241 — 02 3no. ACE CAM-

Landscape Masterplan (not to scale)

Planting Plan (not to scale)



