

Biodiversity Enhancement Measures

Former Chatsworth Mill Williams Road Gorton.

Report prepared for Mangrove Estates.

Prepared by Simon Brain. Chartered arboriculturist. PGCE (Bio. Rec.)

Version 1

25.03.2021

1.	Introduction	3
1.1	Background to the Project	3
1.2	Site Location and Context	3
1.3	Existing ecological reporting and purpose of this report	3-4
1.3.1	Author Information	4
2.	Existing ecological interest	4
2.1	Existing ecological appraisal	4
2.2	Existing ecological appraisal – opportunities for enhancement	4
3.	Ecological aims and objectives	5
3.1	Aim and objectives	5
4.	Site specific enhancement measures - Proposals	5
4.1.	Habitat and species measures - site specific proposals	5-7
4.2	Aftercare	7

Appendix

Appendix 1 Proposed development and ecological enhancements

Appendix 2 Native tree and shrub listings

1. Introduction

1.1 Background to the project

The client is securing a planning permission for the erection of living apartments, car parking and associated access.

The proposal is included in Appendix One and generally consists of dwellings and associated infrastructure.

1.2 Site Location and Context

The site consists of unmanaged amenity grassland and scattered trees.

1.3 Existing ecological reporting and purpose of this report

Enhancement measures shall be using the base ecological data contained in the Preliminary Ecological Assessment dated 6476.002 which followed CIEEM guidelines (*Guidelines for Preliminary Ecological Appraisal*).

Section 40 of the Natural Environment and Rural Communities Act 2006 places a statutory duty on all public authorities in England to conserve biodiversity. Therefore, the purpose of this report is to outline the biodiversity enhancement measures proposed for the redevelopment of this site.

1.3.1 Author information

Simon Brain has attained a Post Graduate Certificate in Biological Recording and has attended residential FSC Field Courses for Land mammal identification, Songbird identification, Barn Owls (CIEEM) and Advanced Bird Survey Techniques (Level M) and various bat mitigation and training courses and European workshops. He holds a NE Class 2 bat license (17334-CLS). He has attended various designated sites and carried out vascular plant identifications with verifiers. He has been working as an appointed person trapping Great Crested Newt and has experience with amphibians and carrying out reptile surveys. In addition he is a Chartered arboriculturist.

2. Existing ecological interest

2.1 Existing ecological appraisal – opportunities for enhancement

The existing ecology report identified the following general biodiversity measures could apply to the sites re development:

- Habitats. Incorporation of mixed grassland
- Native tree and shrub planting including hedge planting
- Fauna, birds. Nesting provision

3. Ecological aims and objectives

3.1 Aims and objectives

The aim of this plan is to provide a specifications, guidelines and proposals for general and site specific biodiversity enhancements as mentioned in section 2.1.

These measures shall be aimed at European protected species and also nationally protected or locally important species.

4. Site specific enhancement measures - Proposals

4.1. Habitat and species measures – site specific proposals

Trees and shrubs

The use of native trees and shrubs has significant biodiversity advantages over the use of non native and or ornamental species. This is because by planting of native species the impacts associated with non native plants are avoided. Native planting sustains native flora and fauna and their introduction is of particular benefit to invertebrates which are often seen as a building block for biodiversity as they provide a wider range of food for species to predate upon such as birds and mammals.

Boundary features

The current Landscape layout (Savill Landscape MAR 21) Rev - shows structure planting around the boundaries. The species contained within the proposed planting plan shall consist of native trees and shrubs only, as provided in appendix 2.

The use of native plants within a double planted hedgerow shall be installed at 30cm intervals using 90cm whips as and where hedges are to be planted.

Wildflower meadow planting

Invertebrate diversity is considerably enhanced by the use of a wildflower and or mixed species grass sward rather than using amenity grassland species (turf). Wildflower turf can be installed using for example a matted sward consisting of British native wild flowers.

Birds

Breeding bird habitat shall be provided by the use of tree and shrub planting as generally specified on the in the appendix.

The following shall be fitted to the north facing aspect of the building:

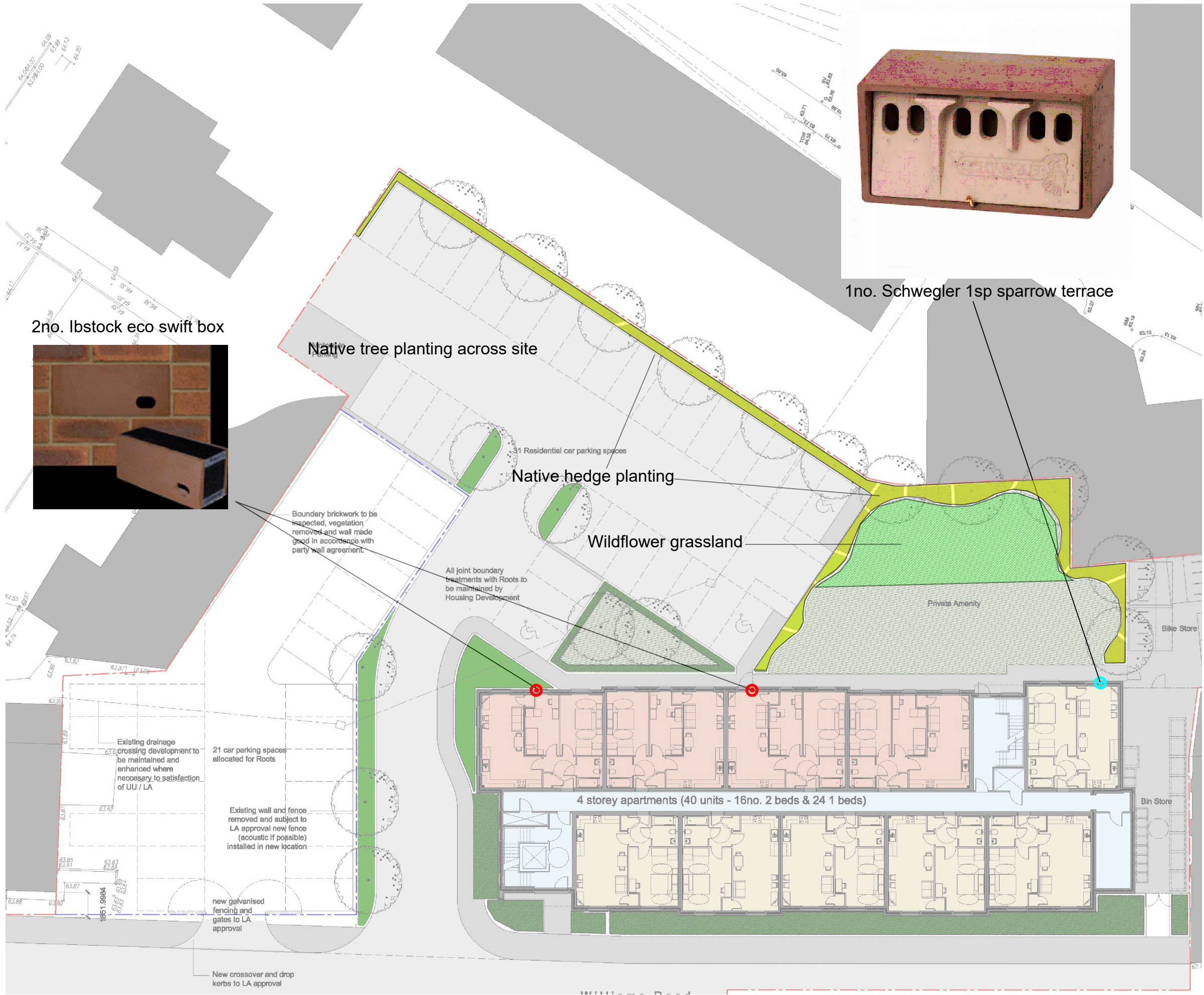
- 1no. Schwegler sparrow terrace
- 2no. Ibstock eco swift box

4.2 Aftercare and monitoring

Planting within the development boundary itself will be subject to the statutory after-care period stated in planning permission. This is normally if any planting dies within a three year period it will be replaced.

Artificial nesting provision shall require supervision of the installation by a consulting ecologist.

Appendix



2no. Ibstock eco swift box



1no. Schwegler 1sp sparrow terrace



Ecological enhancements plan

Ecological enhancement details

- Position of artificial bird habitat within buildings (Ibstock swift box)
- Position of artificial bird habitat within building (sparrow terrace)
- Position of native hedgerow planting
- Position of wildflower grassland

Client:

Mangrove Estates

Project:

Chatsworth

Detail:

Ecological Enhancements

Drawn By:

SB

Date:

25.03.2021

Scale:

NTS

Drg No:

TR-01

Revision:

V1

Common name	Latin name
Large shrubs	
Dogwood	<i>Cornus sanguinea</i>
Spindle	<i>Euonymus europaeus</i>
Sea Buckthorn	<i>Hippophae rhamnoides</i>
Wild privet	<i>Ligustrum vulgare</i>
Rhamnus cathartica	<i>Buckthorn</i>
Rosa canina	<i>Dog rose</i>
Purple willow	<i>Salix purpurea</i>
Eared willow	<i>Salix aurita</i>
Welsh whitebeam	<i>Sorbus leptophylla</i>
	<i>Sorbus minima</i>
Wayfaring tree	<i>Viburnum lantana</i>
Guelder rose	<i>Viburnum opulus</i>
Medium shrubs	
Broom	<i>Cytisus scoparia</i>
Field rose	<i>Rosa arvensis</i>
Soft downy rose	<i>Rosa mollis</i>
Sweet briar	<i>Rosa rubiginosa</i>
English whitebeam	<i>Sorbus anglica</i>
Gorse	<i>Ulex europaeus</i>
Western gorse	<i>Ulex gallii</i>
Small shrubs	
Burnet rose	<i>Rosa pimpinellifolia</i>
Butchers broom	<i>Ruscus aculeatus</i>
Dwarf willow	<i>Salix herbacea</i>
Woolly willow	<i>Salix lanata</i>
Creeping willow	<i>Salix repens</i>

Native tree species list

Common name	Latin name
Field maple	<i>Acer campestre</i>
Common alder	<i>Alnus glutinosa</i>
Strawberry-tree	<i>Arbutus unedo</i>
Silver birch	<i>Betula pendula</i>
Downy birch	<i>Betula pubescens</i>
Box	<i>Buxus sempervirens</i>
Hornbeam	<i>Carpinus betulus</i>
Dogwood	<i>Cornus sanguinea</i>
Hazel	<i>Corylus avellana</i>
Midland hawthorn	<i>Crataegus laevigata</i>
Hawthorn	<i>Crataegus monogyna</i>
Spindle	<i>Euonymus europaeus</i>
Beech	<i>Fagus sylvatica</i>
Alder buckthorn	<i>Frangula alnus</i>
Common ash	<i>Fraxinus excelsior</i>
Sea buckthorn	<i>Elaeagnus rhamnoides</i>
Holly	<i>Ilex aquifolium</i>
Juniper	<i>Juniperus communis</i>
Crab apple	<i>Malus sylvestris</i>
Scots pine	<i>Pinus sylvestris</i>
Black poplar	<i>Populus nigra</i> subsp. <i>Betulifolia</i>
Aspen	<i>Populus tremula</i>
Wild cherry	<i>Prunus avium</i>
Bird cherry	<i>Prunus padus</i>
Blackthorn	<i>Prunus spinosa</i>
Plymouth pear	<i>Pyrus cordata</i>
Sessile oak	<i>Quercus petraea</i>
Pedunculate oak	<i>Quercus robur</i>
Purging buckthorn	<i>Rhamnus cathartica</i>
White willow	<i>Salix alba</i>
Goat willow	<i>Salix caprea</i>
Grey willow	<i>Salix cinerea</i>
Crack willow	<i>Salix fragilis</i>
Bay willow	<i>Salix petandra</i>
Purple osier	<i>Salix purpurea</i>
Almond willow	<i>Salix triandra</i>
Common osier	<i>Salix viminalis</i>
Elder	<i>Sambucus nigra</i>
English whitebeam	<i>Sorbus anglica</i>
Common whitebeam	<i>Sorbus aria</i>
Arran whitebeam	<i>Sorbus arranensis</i>
Rowan	<i>Sorbus aucuparia</i>
Bristol whitebeam	<i>Sorbus bristoliensis</i>
Devon whitebeam	<i>Sorbus devoniensis</i>
Service-tree	<i>Sorbus domestica</i>

Native tree species list

Round-leaved whitebeam	<i>Sorbus eminens</i>
Irish whitebeam	<i>Sorbus hibernica</i>
Lancastrian whitebeam	<i>Sorbus lancastriensis</i>
Grey-leaved whitebeam	<i>Sorbus porrigentifformis</i>
Arran service-tree	<i>Sorbus pseudofennica</i>
Rock whitebeam	<i>Sorbus rupicola</i>
Somerset whitebeam	<i>Sorbus subcuneata</i>
Wild service-tree	<i>Sorbus torminalis</i>
Bloody whitebeam	<i>Sorbus vexans</i>
Wilmott's whitebeam	<i>Sorbus wilmottiana</i>
Yew	<i>Taxus baccata</i>
Small-leaved lime	<i>Tilia cordata</i>
Large-leaved lime	<i>Tilia platyphyllos</i>
Wych elm	<i>Ulmus glabra</i>
Field elm	<i>Ulmus minor</i>