

Ecological Design Strategy



Gomersall Hall

Martin Walsh Associates

Report Reference:	Ecological Design Strategy
Report Reference:	R-6846-01
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Introduction

This report is produced to discharge Condition 7 of 2020/62/90350/E



7. No development shall take place until an ecological design strategy (EDS) addressing mitigation and enhancement has been submitted to and approved in writing by the local planning authority.

The EDS shall include the following.

- a. Purpose and conservation objectives for the proposed ecological works.
- b. Location (shown on appropriate scale plans) of specific make and model, or design, of habitat boxes, such as bat boxes, bird boxes and hedgehog refuges. Habitat boxes to be integral to new structures where appropriate.
- c. Details of how the design of boundary treatments will not obstruct the movement of hedgehogs.
- d. Planting schedule and planting plan showing the inclusion of native species of tree and shrub to be included within/at the boundary of the application area, and how this achieves the stated purpose.
- e. Details of maintenance.

The EDS shall be implemented in accordance with the approved details and all features shall be retained in that manner thereafter.

Reason: To ensure the development hereby permitted provides ecological enhancement measures sufficient to provide a biodiversity net gain in accordance with policy LP30 of the Kirklees Local Plan and Chapter 15 of the National Planning Policy Framework. This is pre-commencement to ensure detailed designs are available to enable implementation as part of the construction program.



- Managed woodland
- Existing trees conveyed to plots 2, 5 and 7
- Proposed new trees

Consented layout

MARTIN WALSH ARCHITECTURAL

 For Information

 Proposed Residential Development at Cornhill Hall,

 Oxford Road, Gomersal, Cleckheaton, BD19 4AT

 Proposed Site Plan

 The Councilors of the Council of Kirklees Valley

 Date: 14/12/2023

 Project: 1413

 Scale: 1:500

 Drawing: @A1

 Discipline: Landscape

 Sheet: CLV

 Project: HMOR - MWA - 01 - XX - DR - A - 0027

 P2

Native Planting

Native hedge

The majority of hedges surrounding the properties will comprise of native berry bearing shrubs of value to a wide range of birds and small mammals. These will be managed by the residents in their curtilage but left to grow out at the rear to form a thicket.



Native hedge					
Scientific	English	%	Stock	Groupings	Centres and style
<i>Corylus avellana</i>	Hazel	25	1+1 BR	groups 3-8	Double staggered row
<i>Prunus spinosa</i>	Blackthorn	10	1+1 BR	groups 5-9	Double staggered row
<i>Ilex aquifolium</i>	Holly	5	1ltr Pot	Scattered individuals	Double staggered row
<i>Crataegus monogyna</i>	Hawthorn	35	1+1 BR	groups 3-8	Double staggered row
<i>Rosa canina</i>	Dog Rose	5	1+1 BR	groups 3-8	Double staggered row
<i>Malus sylvestris</i>	Crab apple	5	1+1 BR	groups 3-5	Double staggered row
<i>Viburnum opulus</i>	Guelder Rose	5	1+1 BR	groups 3-5	Double staggered row
<i>Acer campestre</i>	Field Maple	5	1+1 BR	groups 3-8	Double staggered row
<i>Lonicera periclymenum</i>	Honeysuckle	5	1ltr Pot	Individuals	Scattered*

The hedge will be planted without any additional wire fencing to allow for faunal access between the gardens and the surrounding woodland. However post and rail fencing would be suitable so long as the bottom rung is kept over 20cm from ground level.

Native Planting

Native edge planting

Planting to take advantage of light gaps from site preparation and to infill any areas where there are gaps in canopy cover.

The mix provides a diverse range of locally prevalent species providing food and shelter for a wide range of invertebrates birds and small mammals.



Native edge				
Scientific	English	%	Stock	Groupings
<i>Sorbus aucuparia</i>	Rowan	5	1+1 BR	Individuals
<i>Corylus avellana</i>	Hazel	30	1+1 BR	groups 3-8
<i>Prunus spinosa</i>	Blackthorn	15	1+1 BR	groups 3-5
<i>Crataegus monogyna</i>	Hawthorn	25	1+1 BR	groups 3-8
<i>Rosa canina</i>	Dog Rose	10	1+1 BR	groups 2-5
<i>Malus sylvestris</i>	Crab apple	5	1+1 BR	Individuals
<i>Viburnum opulus</i>	Guelder Rose	5	1+1 BR	groups 3-5
<i>Lonicera periclymenum</i>	Honeysuckle	5	1ltr Pot	Individuals

Nesting and Roosting Boxes

Integrated Bat boxes



Specification

<https://www.nhbs.com/ibstock-enclosed-bat-box-c>

Or equivalent approved by an Ecologist

Location Notes

Sited as high as possible under the eaves with good access to unlit vegetated corridors.

Number 4 **When erected?** During construction.



Note all locations and specifications may be varied under agreement with ECoW

Nesting and Roosting Boxes

Tree Mounted Bat boxes



Specification

Kent Bat Box <https://www.nhbs.com/nhbs-kent-bat-box>

Or equivalent approved by an Ecologist

Location Notes

Located in trees according to the ECoW instructions at minimum of 4m with clear flight-lines and providing a range of orientation.

Note we specify these boxes rather than Schwegler 2FF as we find these to be more successful for bats and less attractive to nesting birds.

Number 7 **When erected?** Prior to construction

Note all locations and specifications may be varied under agreement with ECoW



Nesting and Roosting Boxes

Sparrow boxes



Specification

<https://www.nhbs.com/1sp-schwegler-sparrow-terrace>

Or equivalent approved by the Ecological Clerk of Works

Location Notes

House sparrow boxes will be positioned as high up on buildings as possible, ideally below the verges of gables. Boxes will not be positioned above windows, to prevent potential conflict with new homeowners. South-facing elevations will be avoided, with boxes fixed to north, northeast or northwest facing aspects.

Number 5 **When erected?** Prior to sale

Note all locations and specifications may be varied under agreement with ECoW



Nesting and Roosting Boxes

Bird boxes



Specification

<https://www.nestbox.co.uk/products/small-bird-box>

Or equivalent approved by the Ecological Clerk of Works

Location Notes

Fit in existing trees at min 4m facing generally north

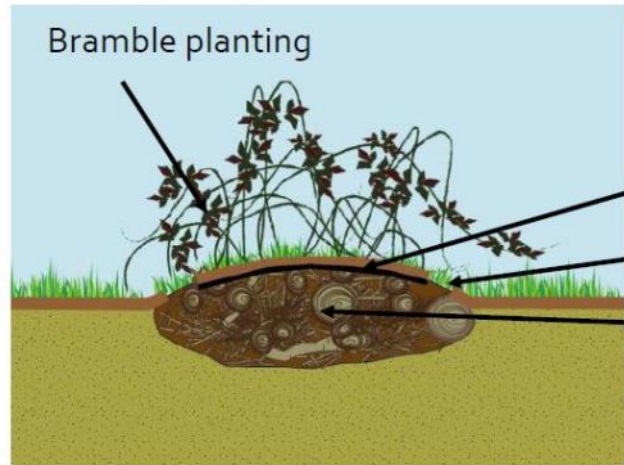
Number 10 **When erected?** Prior to sale

Note all locations and specifications may be varied under agreement with ECoW



Woodpiles and refuges

Hedgehog Refuges



Constructed refuge indicative design

- Waterproof membrane
- Holes to access refuge
- Logs, branches and leaves



Lack of refuges can be a significant population limiting factor on both urban and arable landscapes. 10 Hibernacula/refuges should be installed in the key locations shown.

The features should be 1.5 by 1.5 m in size and 0.4m deep.

They should be covered with topsoil and planted with Bramble (*Rubus fruticosus*)

Faunal features
+ Deadwood log pile

Note all locations and specifications may be varied under agreement with ECoW

Faunal Access

Rationale

Hedgehog have seen significant declines over the last few decades, with one of the major factors being loss of habitat. This species is listed under Section 41 of the NERC Act (2006) as a 'Species of Principle Importance'.

New gardens can provide excellent hedgehog habitat and whereas previously, these gardens were accessible to this species by virtue of hedgerow planting, a shift in industry practice to hard borders (fences and walls) has inadvertently excluded hedgehog from this extensive foraging resource. Simply providing a means of access into and between these new gardens can very easily and cheaply increase the amount of habitat available to hedgehog.

Hedgehog access

The whole site is accessible for hedgehogs using native hedges rather than closed board or mesh fences. These are naturally permeable to hedgehogs allowing them to forage in gardens and access the woodland habitats that surround the private curtilages.

Delivery

To ensure that hedgehog access and the other features set out in this EDS are delivered an Ecological Clerk of Works (ECoW) will visit the site after construction and prior to the sale of any plot. Should there be any omissions or unsanctioned variations the developer will set these right to the satisfaction of the ECoW.

