



**Ecological Enhancements Strategy & Habitat
Management**

**Bismarck Street, Worsbrough Common,
Barnsley, S70 4NA**

October/ November 2019

Notice to readers

This report has been prepared by Absolute Ecology with all reasonable skill, care and diligence, within the terms of the contract with the client. The actions of the surveyor on site and during the production of the report were undertaken in accordance with the Code of Professional Conduct for the Chartered Institute of Ecology and Environmental Management (www.cieem.org.uk).

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1.0 Introduction

Background

- 1.1 Absolute Ecology was commissioned to undertake an Ecological Enhancement Strategy for a proposed development of Bismarck Street, Worsbrough Common, Barnsley, S70 4NA. Grid Reference: SE 34780 05348.
- 1.2 The published National Planning Policy Framework (NPPF) replaces Planning Policy Statements (e.g. PPS9) and sets out current Government policy on biodiversity and nature conservation. Planners are required to set criteria-based policies against which proposals for development that may affect legally protected species will be judged. The NPPF promotes sustainable development by ensuring that developments take account of the role and value of biodiversity, with an emphasis on maintaining ecological networks at a landscape level.
- 1.3 The aim of the Ecological Enhancement Strategy is to mitigate any ecological loss. Absolute Ecology will; conduct an inspection of the new features installed and constructed, and will be available during the construction phase of the ecology enhancements. Prior to construction of the ecological enhancements a pre-site meeting would take place to provide a tool box talk on the construction of the ecological enhancements to give further clarity to what is required. This report will be provided to the site staff for guidance.

Figure 1: Location Map



2.0 Biodiversity & Habitat Management Plan

- 2.1 Full planning permission has been granted for the erection of five residential dwellings on the land off Bismarck Street, Worsbrough Common, Barnsley, S70 4NA. Application number: 2019/0342, Barnsley Metropolitan Borough Council. The proposed development involves the erection of a pair of semi-detached houses, a pair of semi-detached bungalows, and a single detached dwelling with a detached garage.

Condition 16 states

On commencement of the development a scheme shall be submitted for the written approval of the Local Planning Authority. The scheme shall provide details including but not limited to the size, materials, design, location and timing of insertion of the bird boxes and hedgehog street as set out in the Preliminary Ecological Appraisal (Absolute Ecology, April 2019 s5.13 s5.16). Once approved the mitigation measures shall be implemented in full for the duration of the development.

Reason: In the interests of biodiversity and in accordance with Local Planning Policy T4.

- 2.2 To compensate for the loss of biodiversity the creation of fauna species habitat such as bats/birds/hedgehog habitat to be created but also to use native plant and tree species, recommendations are given to enhance the site for the future benefit of biodiversity.

2.3 Management Aims and Objectives

- Conserving and enhancing ecological value
- Safeguarding and enhancing biological features on site.
- Maintain the connectivity of habitats within the site and to adjacent sites.
- Ensure invasive species on site are controlled and do not colonise the site further.
- Establish an awareness within the public of the sites wildlife value.
- Well established health and safety procedures
- Establishing and maintaining health and safety procedures for the management and maintenance of the site to comply with all relevant legislation and guidance.

Bat Boxes Installation – See figures for location plan of features

- 2.4 The development will incorporate 2 x Bat Boxes, each positioned on the dwellings in plot 5.
- 1 x Beaumaris Woodstone Bat Box installed on the garage in plot 5. To be installed externally on the southern gable end of the detached garage, towards the apex. Box to be installed at a height of 3-6m (where possible).
 - 1 x Habibat Bat Box – Custom Brick Facing installed on the eastern gable end of the residential dwelling in plot 5, towards the apex. Box to be installed at a height of 3-6m (where possible).
 - Should the boxes become occupied, a bat roost is protected by law and must not be disturbed (unless by a licenced bat worker).
 - Any lighting design around the new redevelopment should be considered at an early stage, and should follow the Bat Conservation Trust (Bats and Artificial Lighting in the UK 2018) <https://www.theilp.org.uk/documents/guidance-note-8-bats-and-artificial-lighting/>

Table 1: Bat boxes to be incorporated into the re/development

Bat boxes	Type and Quantity	Details
	1 x Beaumaris Woodstone Bat Box	This bat box is made entirely from Woodstone, a robust material comprising concrete and wood fibres. This means that, not only does the box have excellent insulating properties maintaining a more consistent temperature throughout the year, it also provides excellent protection from predators. The Beaumaris box has a single narrow cavity which makes it suitable for crevice roosting bats such as the common pipistrelle, soprano pipistrelle, Nathusius' pipistrelle, Brandt's bat and whiskered bat. The interior of the box has a rough surface for bats to cling to and the front of the box features a subtle but attractive imprint of a bat in flight. Specification Midi: * Height: 39cm * Width: 29cm * Depth: 6cm * Weight: 4.4kg



1 x Habibat Bat Box – Custom Brick Facing



The Habibat Bat Box is a large, solid box made of insulating concrete with an internal roost space, which can be incorporated into the fabric of a building as it is built or renovated. A variety of facings can be fitted to suit any existing brick, wood, stonework or rendered finish, rendering the box unobtrusive and aesthetically pleasing. The Habibat box is suitable for species which are most commonly found roosting in buildings in the UK, such as Pipistrelle, Natterer's, Whiskered, and Brandt's bats.

This box is made to order and faced in brick to match your building. For certain brick types it may be necessary for you to send your own bricks to be used on the face of the box (six required for each box). This is also recommended if you require the bricks to match your own exactly, as slight variations between batches do occur. Please let us know your brick code or name at the time of ordering. We will then let you know if bricks will need to be provided or if they can be sourced by the manufacturer.

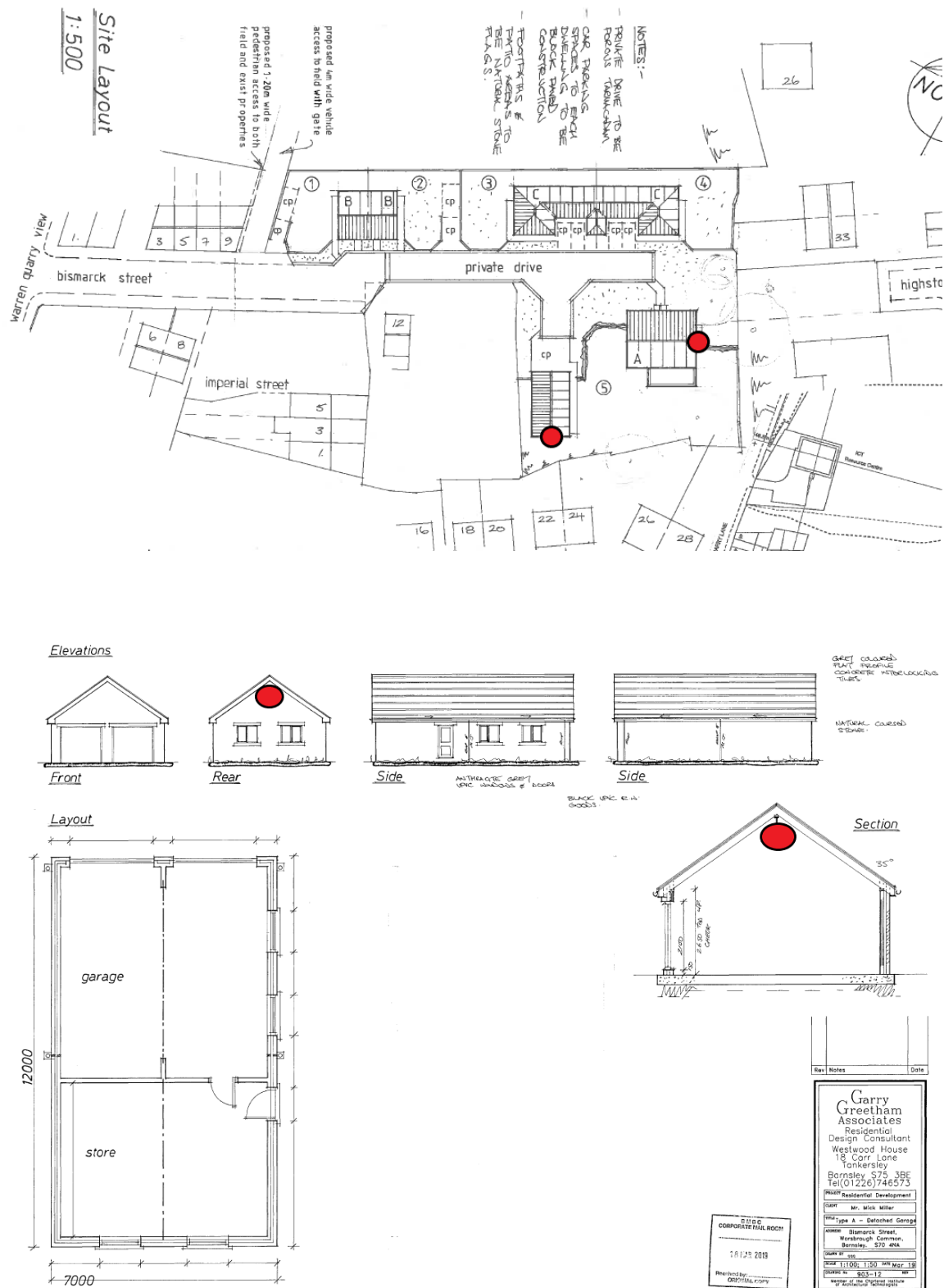
The box is supplied unpainted so it can be matched as closely as possible to the building.

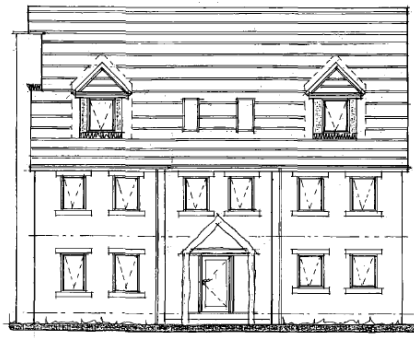
Specification

- * Material: Concrete plus brick facing
- * Dimensions: 215mm (width) x 440mm (height) x 102mm (depth)
- * Weight: approximately 9kg

Correct placement of Habibat is fundamental to the successful uptake by bats.

Figure 2: Location of bat boxes on/in new building (indicated by red circles)

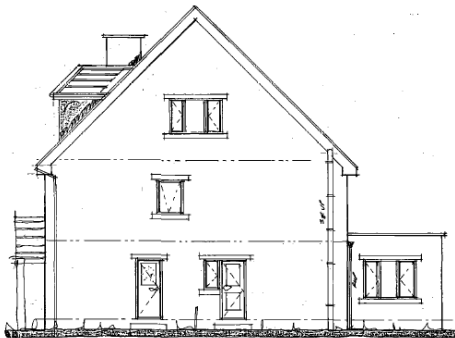




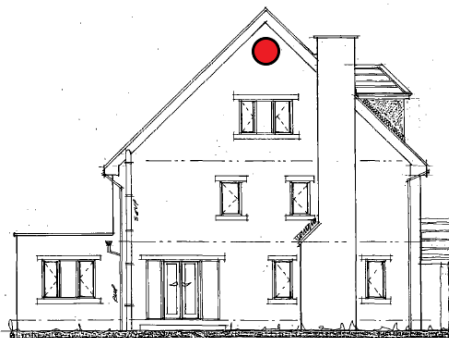
Front



Rear



Side



Side

GREY COLOURED
FLAT PROFILE
CONCRETE INTERLOCKING
TILES.

ANTHRACITE GREY
UPVC WINDOWS &
DOORS

Rev	Notes	Date

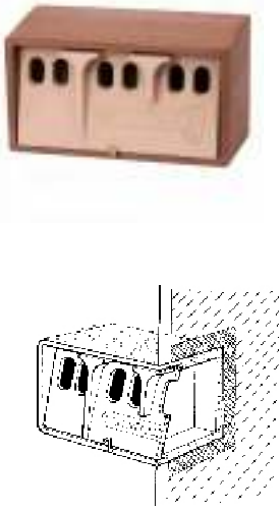
Garry Greetham Associates Residential Design Consultant Westwood House 18 Carr Lane Tankersley Barnsley S75 3BE Tel: (01226) 746573	
PROJECT Residential Development	
CLIENT	Mr. Mick Miller
TITLE	Type A - Elevations
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley, S70 4NA
DRAWN BY	GG
SCALE	1:100 NEW MAR 19
DRAWING No	903-07 REV
Member of the Engineering Institute of Architecture Technology	

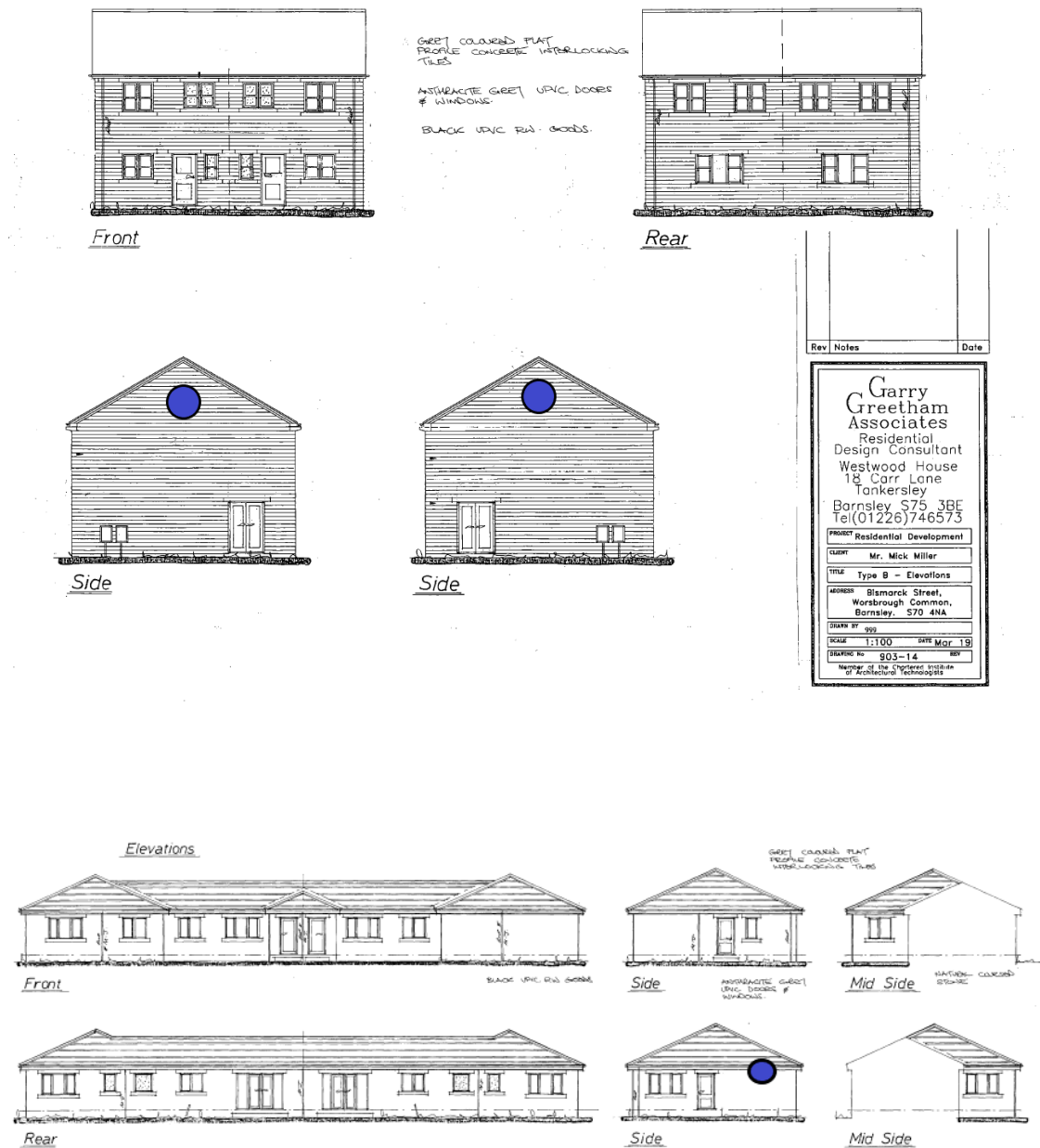
Bird Nests

2.5 The development will incorporate three 1SP Schwegler Sparrow Terrace which will be positioned on the dwellings of plot 1, plot 2 and plot 4.

- 3 x 1SP Schwegler Sparrow Terrace at eaves height on the west elevation of the dwelling on plot 1, at eaves height on the east elevation of the dwelling on plot 2, and at eaves height on the east elevation of plot 4.
- The front of the nest box should be angled vertically or slightly downwards to prevent rain from entering the nest box. Make sure it is sheltered from prevailing wind, rain and strong sunlight.
- The 1SP Schwegler Sparrow Terrace is suitable for all types of houses/outbuildings, ideally place the terrace two metres or more above the ground. They should be incorporated into the wall. Cleaning is advisable but not necessary.

Table 2: Bird boxes to be incorporated into the new development

Bird Boxes	Information
3 x 1SP Schwegler Sparrow Terrace 	The Sparrow Terrace has been designed to help redress the balance of falling house sparrow numbers. The current UK population of 6 million pairs is half what it was in 1980 and this is thought to be due to habitat destruction and lack of suitable nesting spaces. Sparrows are social birds and like to nest in company. This terrace provides ideal nesting opportunities for three families. Made of Schwegler's revolutionary wood-concrete mix, this terrace is durable, breathable and will last many decades. It may also occasionally attract tits, redstarts and spotted flycatchers. The terrace can be incorporated into the wall. It is suitable for all types of houses in built-up areas, and on industrial and agricultural buildings such as barns, sheds and factories. Due to its weight (15kg), it is not suitable for fences or garden sheds. Ideally place the terrace two metres or more above the ground. Either install on the surface of the wall using the plugs and screws provided, or install directly into the wall (see the images tab for illustrations). Cleaning is advisable but not necessary. The front panel can be removed by turning the screw hook. The Sparrow Terrace is available in either Stone or Brown. Brood chamber dimensions: *Height:16cm *Width:10.5cm * Depth:15cm External dimensions: *Height:24.5cm *Width:43cm *Depth:20cm * Weight: 15kg

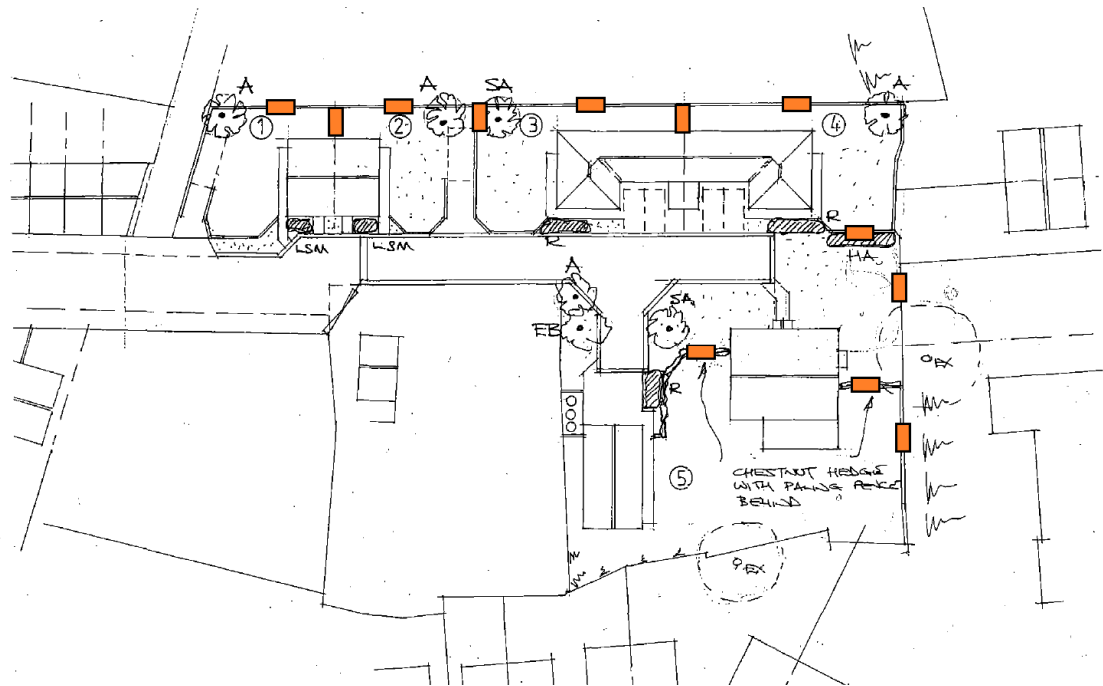


Hedgehogs

- 2.6 The development will incorporate a hedgehog street to ensure that hedgehogs can safely pass through each garden.
- 2.7 Hedgehogs travel one mile every night through gardens and parks in order to forage for food and find a mate. The main reason for their decline is because fences and walls have become so secure that it reduces the amount of land available to them.
- 2.8 The development will incorporate twelve 'hedgehog highways' which are 13cm by 13cm holes in fences and walls to allow the free movement of hedgehogs between gardens.
- Holes must be at least 13cm by 13cm. This is large enough to allow a hedgehog to pass through but will be too small for most pets.
 - 12 x hedgehog highway signs found here <https://ptes.org/shop/just-in/hedgehog-highway/> , one to be placed above each hole in order to make sure that they are not blocked by anyone accidentally.

Table 3: Hedgehog highways to be included in the development

Hedgehog Highway	Type and Quantity	Information
	12 x 13cm by 13cm holes with hedgehog highway signs pinned above.	Lazer cut from recycled plastic. Fixing Place directly above one hedgehog highway hole within each plot in order to prevent it from being blocked accidentally, and provide future owners with information regarding the scheme.



3.0 References

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