

## Green Infrastructure Statement

### Project: Side and Rear Extension at 45 Box Lane, Wrexham

Planning Application Reference: P/2024/0241



#### Green Infrastructure at Existing Site:

The current site comprises a garden area with a patio, several semi-mature trees, a grassed lawn, and various shrubs. There are no significant water bodies or wetland areas within the site boundaries. The garden is well-maintained and contributes to the aesthetic and ecological value of the property.



### **Impact of the Proposal:**

The proposed construction of a side and rear wrap-around extension will be built over existing hardstanding and uPVC conservatory that has a larger footprint than what we propose, thus minimising any loss of greenery. The current patio area will be reduced in size to increase the lawn area. Although large swathes of lawn could be considered to contribute little to enhancing biodiversity, the change from concrete to grass is beneficial as it will allow for natural drainage and a marginal improvement in garden biodiversity.

The existing semi-mature trees and shrubs along the boundaries will remain unaffected by the development, preserving the current habitat for local wildlife. The conversion of part of the patio to lawn area will enhance the permeability of the ground, reducing surface water runoff and contributing to better water management on-site.



### **Enhancements and Mitigation Measures:**

To comply with the Green Infrastructure and Net Biodiversity Benefit requirements, the following measures will be implemented:

#### **Planting of Native Species:**

As the garden is already well-planted, the introduction of additional native species will not enhance biodiversity. The existing boundaries already include many shrubs that provide food and shelter for a variety of local wildlife and to add more would require the removal of existing established shrubs.

#### **Installation of Bird Boxes:**

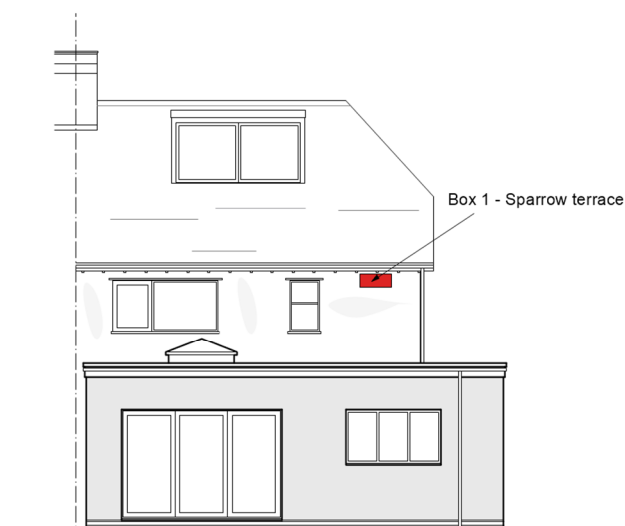
A bird box (sparrow terrace) will be installed on the house to support local bird populations. Ideally, we would have multiple walls of the house at a height and orientation appropriate to fix more than one bird box. To maximise the ability to serve more than one family of birds, we propose a sparrow terrace, as other bird species are not necessarily as sociable and its unlikely multiple boxes would be

utilised if we were to install more than one on the rear elevation (North East). The box will be away from direct sunlight and prevailing winds, to provide a safe and comfortable nesting environment where flight paths to and from the box are high up under the eaves of the original house to prevent predation.

Below is an example of the proposed sparrow terrace and its placement:



The location of bird box is illustrated below:



Proposed Rear Elevation 1:100  
View C

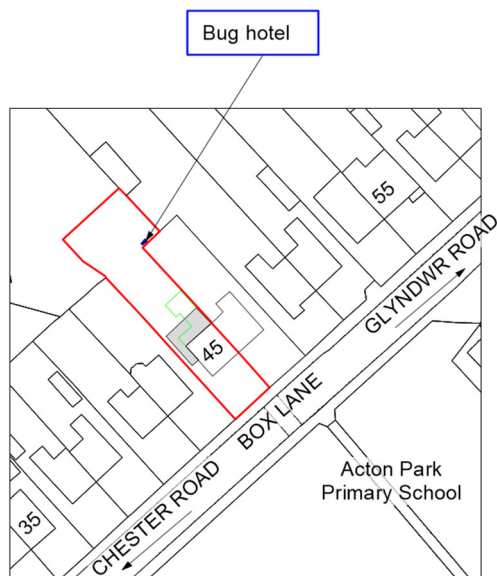
### Installation of a Bug Hotel:

A bug hotel will be installed in a quiet corner of the garden. Made from natural materials like wood, straw, and bamboo, the bug hotel will provide shelter for beneficial insects such as ladybirds, lacewings, and solitary bees. This will help control garden pests and promote pollination.

Below is an example of a bug hotel:



The location of the bug hotel is illustrated below:



**Conclusion:**

The proposed development has been designed to integrate and enhance the existing green infrastructure. By implementing the above measures, the project aims to provide a net biodiversity benefit and contribute to the resilience of local ecosystems.