

Site plan 1:200



Ecology report recommendations and Biodiversity Enhancements

- Habitats & Flora**

Some habitat creation and enhancement opportunities have been included on the site in the form of shrub planting however further enhancement opportunities could be included to mitigate for the loss of the scrub habitat. The following habitat creation and enhancement opportunities could be incorporated:

 - Further native tree, hedgerow and shrub planting.
 - Creation of wildflower grassland.
- Hedgehog**

The following habitat creation and enhancement opportunities could be incorporated into the proposed development which would be beneficial for hedgehogs:

 - Planting fruit bearing trees and species-rich grassland to increase foraging opportunities.
 - Creation of brash piles or installation of hedgehog houses in shady areas.
 - Installation of gaps under boundary fencing to enable hedgehogs to move freely through the site.

- Amphibians**

The following habitat creation and enhancement opportunities could be incorporated into the proposed development which would be beneficial for amphibians:

 - Creation of amphibian refugia and hibernacula using debris and brash.
 - Planting of native scrub along the site boundaries and grassland to increase foraging opportunities.
- Birds**

The installation of a minimum of four bird boxes on mature trees around the site boundaries or on retained buildings will provide additional nesting habitat for birds e.g.

Schwegler No 17 Swift Nest Box (buildings)

Schwegler 1SP Sparrow Terrace (buildings)

Schwegler 1B Nest Boxes (trees)

Schwegler 2H Robin Boxes (trees)

Woodstone Nest Box (buildings or trees)

Or a similar alternative brand.

Tree boxes should be positioned approximately 3m above ground level where they will be sheltered from prevailing wind, rain and strong sunlight. Small-hole boxes are best placed approximately 1-3m above ground on an area of the tree trunk where foliage will not obscure the entrance hole. Swift and sparrow boxes should be positioned at the eaves of a building and can be incorporated into the fabric of the building during construction.
- Reptiles**

The following habitat creation and enhancement opportunities could be incorporated into the proposed development which would be beneficial for reptiles:

 - Creation of reptile refugia and hibernacula using debris and brash.
 - Planting of native scrub along the site boundaries and grassland to increase foraging opportunities.
 - The creation of basking areas such as rock piles or areas of cleared ground with shelter nearby

- Roosting Bats**
- The installation of a minimum of three bat boxes on mature trees around the site boundaries or on retained buildings will provide additional roosting habitat for bats e.g.
- 2F Schwegler Bat Box (trees)
- 1FF Schwegler Bat Box (trees)
- 2FN Schwegler Bat Box (trees)
- Beaumaris Bat Box (buildings)
- Vivara Pro Woodstone Bat Box (buildings)
- Or a similar alternative brand.
- Bat boxes should be positioned 3-5m above ground level facing in a south or south-westerly direction with a clear flight path to and from the entrance, away from artificial light.

- Foraging and Commuting Bats**
- A low impact lighting strategy will be adopted for the site post-development, which will include the following measures:
- Use narrow spectrum light sources to lower the range of species affected by lighting.
 - Use light sources that emit minimal ultra-violet light.
 - Avoid white and blue wavelengths of the light spectrum to reduce insect attraction and where white light sources are required in order to manage the blue shortwave length content they should be of a warm / neutral colour temperature <4,200 kelvin.
 - Not use bare bulbs and any light pointing upwards.
- The spread of light will be kept in line with or below the horizontal.

Light spill will be reduced via the use of low-level lighting used in conjunction with hoods, cowls, louvers and shields. Lights will also be directional to ensure that light is directed to the intended areas only.

External lighting will be on PIR sensors that are sensitive to large objects only (so that they are not triggered by passing bats) and will be set to the shortest time duration to reduce the amount of time the lights are on.

Wall lights and security lights will be 'dimnable' and set to the lowest light intensity settings. There are several products on the market that allow the control of the light intensity and the duration that the lights are on. All lighting on the developed site will make

- Hazel Doormouse**
- The following habitat creation and enhancement opportunities could be incorporated into the proposed development which would be beneficial for dormice:
- Planting of native trees, shrubs and hedgerows, in particular fruit and nut bearing species, to increase foraging opportunities.

As Built

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Title; Site plan	Scale (A2); 1:200
Dwg No; PW/PI/D01	Date; 25.02.22
Revision;	