



# ARBOR VITAE

ECOLOGY • FORESTRY • LAND USE

**Project name:** Cwm Hafren Holiday Park, Aberhafesp, Newtown  
SY16 3HR

**Grid Reference:** SO04489341

**Planning Reference:** 20/1719/FUL

**Date:** 21/12/2023

**Prepared by:** Phillipa Stirling MSc ACIEEM

**Checked by:** William Prestwood BSc Director

**Requested by:** Hughes Architects

## Background

Planning permission has been granted for: Change of use of agricultural land to holiday park amenity area in conjunction with proposed holiday park (subject to separate application).

Condition 5 states: Prior to commencement of development, an External Lighting Design Scheme to avoid and reduce potential impacts on nocturnal wildlife shall be submitted to and approved in writing by the Local Planning Authority. The scheme shall demonstrate compliance with the recommendations outlined in the BCT and ILP Guidance Note 8 Bats and Artificial Lighting (12th September 2018). Full details can be found at <https://theilp.org.uk/publication/guidancenote-8-bats-and-artificial-lighting/>.

The development shall thereafter be undertaken strictly in accordance with the External Lighting Design Scheme as approved.

The following document provides details of all proposed external lighting at the site, to include types of lighting and positions.

## External Lighting Design Scheme

The following general measures have been used when designing external lighting, to ensure that the lighting scheme used on site has no adverse impact upon nocturnal wildlife or the wider landscape:

- Hedgerows and key habitat features including mature trees on the site will not be illuminated, in order to retain dark movement corridors for nocturnal wildlife.
- Any exterior security or decorative lights to be installed on the development site will be less than 3 m from the ground and fitted with hoods to direct the light below the horizontal plane, at an angle of less than seventy degrees from vertical, and shall not be fixed to, or directed at, bat/bird boxes or gables or eaves.
- Security lighting should be set on motion sensors with short timers (<1 minute) and should be LED with a passive infrared trigger.
- Lighting must be less than 3 lux at ground level and there shall be no light splay exceeding 1 lux along buildings, eaves or roof or adjacent hedgerows or trees.
- External lights will be hooded and directed toward the ground to reduce upward light spill.
- Luminaires should always be mounted horizontally with an upward light ratio of 0%<sup>1</sup>.

The design of the lighting has been developed in parallel with the ecological requirements of the site and a final, minimal lighting plan has been produced. This plan reduces the likelihood of conflicts between lighting on site and nocturnal wildlife, mainly by using low-level bollard lighting, only when required.

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<sup>1</sup> Bat Conservation Trust (2018) Bats and artificial lighting in the UK. Bats and the Built Environment series, Guidance Note 08/18. Institution of Lighting Professionals.

All lighting to be installed around the park will be positioned immediately adjacent to the access road, with a fixed direction to the ground. Lighting at the site will be used for guidance around the park during hours of darkness. Type of lighting to be used around the park:



The lights will be LED (GU10 bulbs) with a warm white spectrum of 2700k. The lights will be fitted with a PIR sensor on a short timer (less than 1 minute) with a manual override switch fitted. The proposed layout of lighting will ensure that all lights face into the interior of the park, focused on the ground. The layout will ensure that boundary features, including trees and hedges, remain unlit.

Lighting will also be required on the amenity building. Lights will use the same bulbs specified above and be of a design which reduces upward light spill as pictured below (or similar):



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- Existing Static Caravans
- Existing Holiday Unit
- Existing Pad Construction but no Static Caravan
- Proposed Caravan/Holiday Unit Location - yet to be built



Fixed down lights x2 installed on south and west elevation of amenity building. ●



Fixed bollard lighting x12 to be used to provide illumination at ground level through the park. ●



**HUGHES**  
ARCHITECTS

Head Office  
29 Broad Street  
Newtown  
Powys  
SY16 2BQ  
t - 01686 610311  
w - www.hughesarchitects.co.uk

Project <b>Planning Regularisation at land at Aelybryn (now Cwm Hafren Holiday Park), Aberhaseph. SY16 3HR</b>			
Drawing Status <b>Stage 3a: Planning</b>		Drawing Title <b>As Built Site Plan</b>	
Scale 1:1250 @ A3	Date 12.12.23	Drawing No <b>Y064.3a.3.200</b>	Rev
Drawn by <b>WRF</b>	Checked <b>DH</b>		