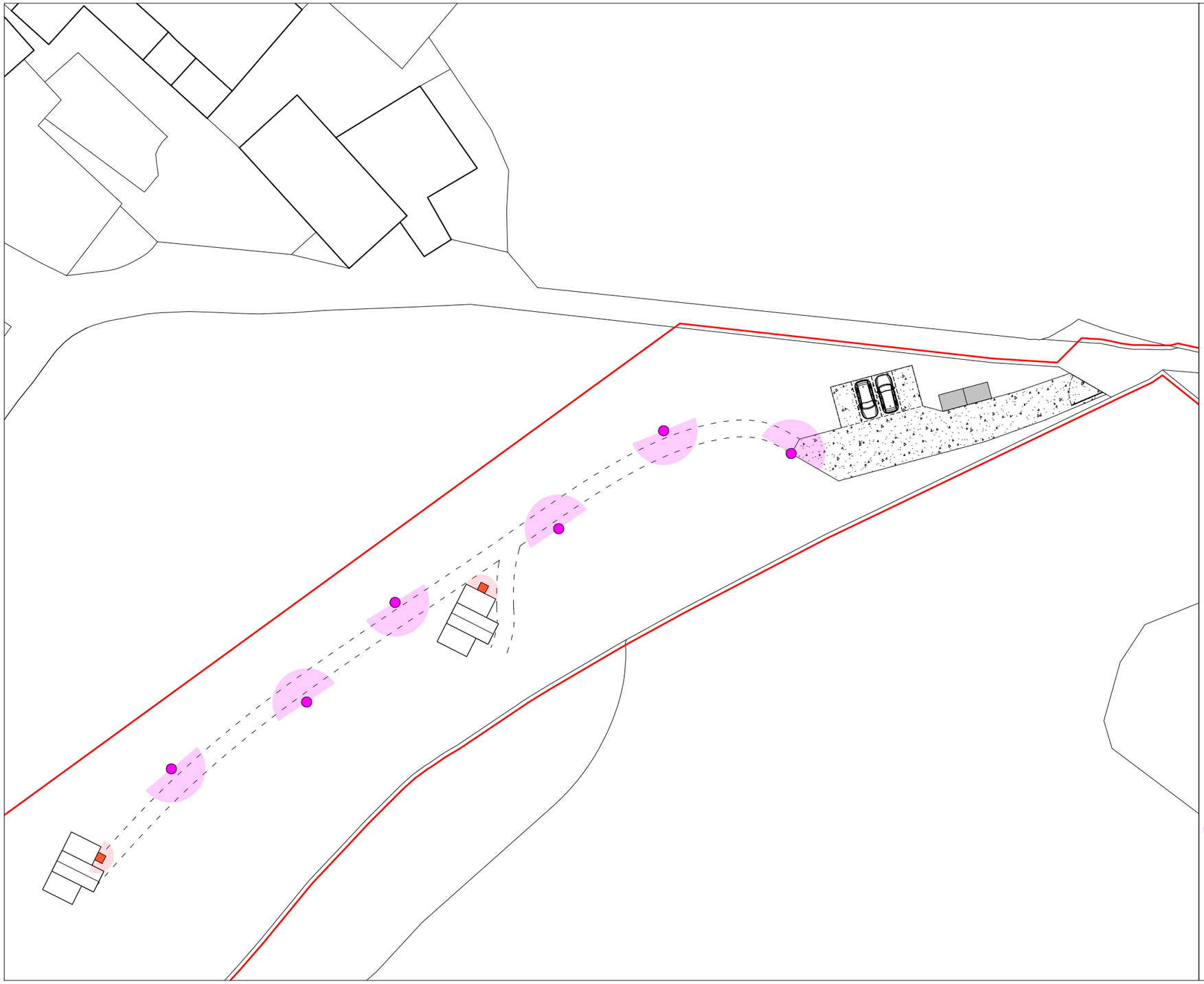


NOTES

This sensitive lighting scheme is designed to minimise the impact of lighting on surrounding wildlife and avoid impacting the dark sky experience. This uses the recommendations from a preliminary ecological appraisal, carried out by an ecologist.

The tree house is well enclosed by woodland and in a secluded location, and by following these recommendations it is anticipated that there will be no aurora around the site, nor effects upon the tranquillity of the site caused by any night time visual disturbance.

Internal Lighting Design Strategy:

- Use recessed and downward directional lights.
- Use LED light sources with a warm light spectrum (<2700 Kelvin)
- Performance to achieve:
- Minimum 100lx in living spaces and bedrooms
- Minimum 150lx in bathroom and kitchen
- Luminaries not to be placed within 1000mm of glazed elements. Or where this is not possible, low luminance downlights (floor and task plane directed) will be used to prevent unnecessary and potential visible internal wall brightness and external light emission through glazing.
- Glazing to have 0.23 light transmission characteristic.

External Lighting Design Strategy:

- All external luminaries are to be full horizontal cut off, installed at 0° uplift.
- Luminaries / lighting products will be selected with reference to the Bat Conservation Trust's and Institute of Lighting Professionals Guidance Note 08/18.
- Light fittings and designs are to include baffles, hoods or louvres to direct it only to where it is needed to avoid light spill on to adjacent habitats of ecological value.
- Use of downward directional arrangements.
- Use of LED light sources that contain no UV element and are warm white (<2700 Kelvin) and have a peak wavelength higher than 550nm (where practicable).
- External lighting to be time and motion controlled. No external lighting to illuminate the boundaries and reduce any possible disturbance to flight lines.

KEY

Ground fixed path light - Low level, full horizontal cut off, downward facing, motion-activated, timed.

Wall mounted light - Downward facing, full horizontal cut off, PIR motion sensor with maximum over-run time of 1 minute.

Recessed strip lighting - Low level surface illumination of deck, motion-activated, timed.

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Notes:
Check all dimensions and conditions on site prior to setting out of manufacturing. report discrepancies between site, drawing or specification to the Architect. This drawing is to be read in conjunction with the relevant consultant's specification and schedule. All structural work is to be carried out in accordance with the Structural Engineer's details and calculations. Precise positions of all fixtures and fittings are subject to confirmation on site. All works to be carried out in accordance with current Health & Safety, including CDM regulations. All works to comply with current British standards and regulations, codes of practice and Building Regulations, and appropriate European standards. This drawing is the copyright of the owners.

N

0m 10m 20m 40m

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Site Address	Gronwen Farm, Garth, Llangollen, LL20 7UY

Lighting Plan

Gronwen Farm

GRO-P-005