

EXTERNAL LIGHT MANAGEMENT STATEMENT

This statement is prepared to assist with the discharge of outline planning permission relating to location and control of external lighting at the proposed New Waterfalls Visitors Centre, Accommodation and Car Parking area located at Pontneddfechan.

The Site is located to the South West of the Village, North of the. The development consists of a large car parking area, a 2-storey Accommodation Unit, a new Visitors Shop and Café along with new Toilet Facilities.

The existing site is home to the existing Sgwd Gwladys Accommodation and Restaurant along with an ecological area primarily comprising of an open field lined with trees to the East and South. The surrounding topography generally consists of Greenland and a housing site to the East.

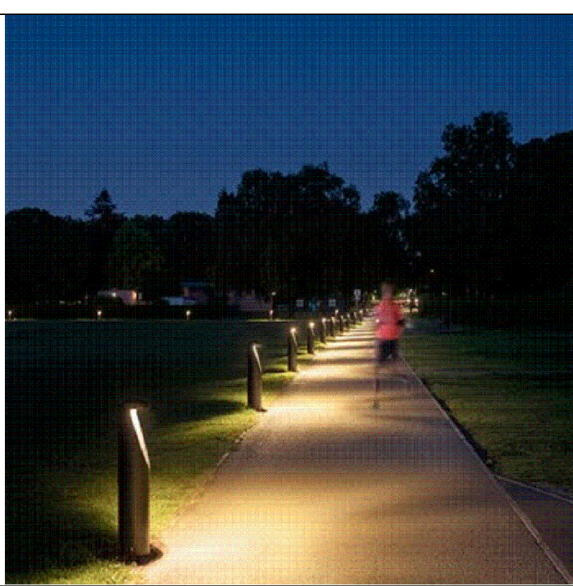
A Preliminary Ecology Appraisal is yet to be received but will be reviewed prior to completion of the final design. As a result of this consideration, McCann and Partners have developed the initial external lighting proposals using 3000K colour temperature LED luminaires, recognising the importance of mitigating the influence of artificial light on the potential movements of bats and other wildlife in the future. Luminaires with blue short wavelength light sources shall be avoided as this colour temperature has a significant and negative effect on insect which subsequently effects the feeding of bats.

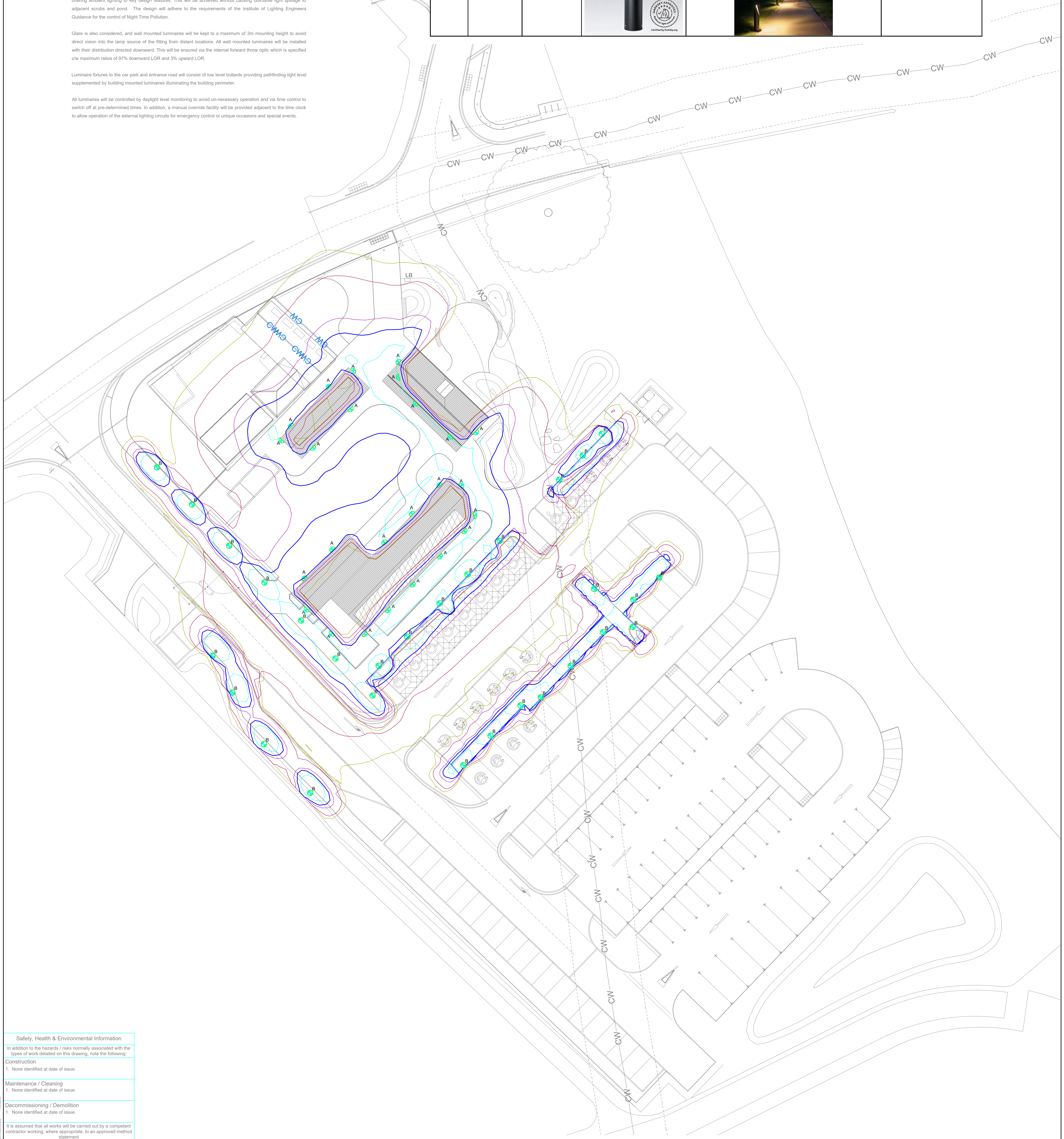
The proposed external lighting strategy will entail the illumination of Disabled and Electric Vehicle Charging car parking spaces, entrance road and pedestrian access and egress routes from the development. All external lighting for the development will afford adequate illumination of emergency exits and pedestrian escape routes whilst offering ambient lighting to key design features. This will be achieved without causing obtrusive light spillage to adjacent scrubs and pond. The design will adhere to the requirements of the Institute of Lighting Engineers Guidance for the control of Night Time Pollution.

Glare is also considered, and wall mounted luminaires will be kept to a maximum of 3m mounting height to avoid direct vision into the lamp source of the fitting from distant locations. All wall mounted luminaires will be installed with their distribution directed downward. This will be ensured via the internal forward throw optic which is specified c/w maximum ratios of 97% downward LOR and 3% upward LOR.

Luminaire fixtures to the car park and entrance road will consist of low level bollards providing pathfinding light level supplemented by building mounted luminaires illuminating the building perimeter.

All luminaires will be controlled by daylight level monitoring to avoid un-necessary operation and via time control to switch off at pre-determined times. In addition, a manual override facility will be provided adjacent to the time clock to allow operation of the external lighting circuits for emergency control or unique occasions and special events.

Reference	Luminaire Type / Mounting	Proposed Luminaire			Controls Strategy
A	IP65, IK10 3000K vandal resistant wall mounting luminaire in anthracite (RAL 7016) with less than 2.5% UGR Integral manual or Self-test 3 hour emergency lighting options.	Thorn 96632757 PIAZZA II LED 1650-800 HP ANT [STD] (1815 lm; 15.1 W; 1xLED 15 W)			Photocell and timesclock arrangement from external services distribution board. Timesclock scheduling linked to BMS.
B	Decorative steel bollard with clear diffuser and asymmetrical light distribution. 3000K IP65, IK10 IDA Dark Sky Approved	Thorn 96275589 URBIA BOLLARD 4L105 730 CL1 [STD] (1009 lm; 15.0 W; 1xLED 15 W)			Photocell and timesclock arrangement from external services distribution board. Timesclock scheduling linked to BMS.



Safety, Health & Environmental Information			
In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following:			
Construction 1. None identified at date of issue.			
Maintenance / Cleaning 1. None identified at date of issue.			
Decommissioning / Demolition 1. None identified at date of issue.			
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement			
Client's comments incorporated	BM	02.10.24	P03
External Lighting Updated to Suit Revised Architectural Layout and Incorporate Client comments	BM	21.06.24	P02
Details	Eng	Date	Rev
Revisions			

Notes	Legend
	Isolines (Lux Levels) 0.5 k 1.0 k 5.0 k 10.0 k 25.0 k

Job Title Lower Pontneddfechan RIBA Stage 3	Consulting Engineers Office 2.02, Baglan Technology Centre Baglan Energy Park, Port Talbot SA12 7AX Tel: (01792) 794285 www.mccannp.com swanseaoffice@mccannp.com				
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Drawing Title Electrical Engineering Services External Light Management Strategy	1:200	Mar 24	GBH	KB	BM
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