



Don O'Malley & Partners

Consulting Engineers - Building Services

ELECTRICAL SITE SERVICES PLANNING REPORT

For

WOODQUAY PARK ENHANCEMENT

GALWAY

Reference No. 1819

ISSUE	DATE	BY	COMMENTS
<i>P1</i>	<i>25-09-2024</i>	<i>Chinthaka Jayasekara</i>	<i>For Planning</i>

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1. Introduction

The following report is a summary of a planning report on the electrical site services in respect of the Woodquay park enhancement, Galway.

A Bat assessment survey of the site was undertaken by MKO. The report recommends minimising light spill away from treelines to minimise the disturbance to bat foraging routes.

The following Electrical designs and drawings are attached for review as part of this report:

1. Proposed External Site lighting & EV Layout (Drawing P100)
2. Lighting Calculation Design Report.

The lighting systems have been designed in accordance with the following:

- Institution of Lighting Professionals Guidance Notes for the Reduction of Obtrusive Light GN01:2011
- Institution of Lighting professionals: Bat Conservation Trust, Guidance Note 08/18.
- BAT Conservation Ireland 2010
- Bat and Lighting Series - Institute of Lighting Professional, September 2018
- EN 12464-2 Lighting of Outdoor Workplaces
- The Society of Light and Lighting: Guide to Limiting Obtrusive Light

2. Outdoor lighting

At this project lighting strategy only for internal walk paths and entrance orb has been developed and the street lighting will be upgraded according to the requirements in another project. The walkway lighting has been designed using LED technology A light source colour temperature of 2700K and zero UV has been selected for the outdoor areas as this is most sympathetic to the Bat species. Feature light has been selected to light up entrance orb. The proposed illumination levels are identified in the layout drawings and Lighting calculation Report. The lighting Report was carried out using the selected light fittings to run Realtime lighting simulations.

Light fitting schedules are identified on the external site lighting layout (Drawing P100)

Lighting control for the outdoor areas consists of photocell & timeclock to ensure the lights are only on during hours of darkness and during hours of use. A hand-off-auto switch shall also be provided to facilitate manual override of the external lighting.

3. Electrical Vehicle charging & Site Services

Fixed dual Electric Vehicle Charge station will be relocated to new position as shown in the P100 drawing. Infrastructure for the 2 parking meters and cycle hire station will be provided as shown in the P100 drawing.

The Fixed dual outlet chargers and associated wiring, isolation and control devices shall be installed in accordance with I.S. 10101:2020