



# Site Lighting Report

## Planning Stage

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For

**Development at 1448 McAuley Place 2**

at

**Beaufort, Sallins Road, Naas**

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## 1. Introduction:

The development comprises the construction of a residential development for older persons located at 13 & 18 Sallins Road, Beaufort Cottage and Beaufort, Sallins Road, Naas West, Naas, Co. Kildare.

Beaufort (house) is proposed to be retained and repurposed to facilitate a community room for the proposed residents and the demolition of the non-original fabric alterations and additions is proposed. Demolition of the three existing terraced cottages fronting Sallins Road is proposed.

The residential development will provide 44 no. 1 and 2-bedroom units across 3 interconnecting 4 storey blocks on a 0.48ha site. The development will also include a single storey rear garden pavilion, a single storey plant room, associated communal and public open spaces and 4 surface car parking spaces. Additional car parking (20 spaces) will be made available within the existing town centre car park located opposite the site. A pedestrian crossing is proposed at the front of the site, across Sallins Road.

Vehicular access is proposed from Sallins Road via a right of way from Father Murphy's Terrace along the southern boundary. A bridge is proposed across the Mill Lane stream connecting the rear of the site with the Luisne Gardens public open space.



Figure 1: Site Plan

## 2. Proposed Approach

Site lighting has been designed to provide adequate lighting at site entrances and within the development. The lighting has been designed to provide safe movement for the following road users:

- Vehicular
- Pedestrian
- Cyclist

It is proposed to use a mix of lighting throughout the site to achieve the desired lighting and landscaping plan.

All light fittings will be installed with a photo electric cell unit (PECU).

### 2.1 Considerations

- Luminaires will use warm white LEDs with a colour temperature of  $\leq 2700\text{K}$  to minimise disturbance to bat species and local wildlife.
- No lighting will be installed within the 20 m riparian corridor from the edge of the riverbank in order to protect ecological habitats.

### 2.2 Design Criteria

The lighting design has taken the following into consideration:

- Use of low energy LED lighting
- Ensure no light spill on adjacent properties
- All luminaires will be selected with an upward light ratio (ULR) of 0% to minimise light pollution and sky glow.
- Lighting may be dimmed during low activity periods to further reduce energy consumption and environmental impact.

### 2.3 Standards

The design of the lighting shall be in accordance with the following standards and guidelines:

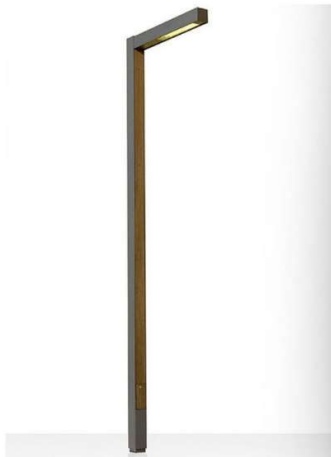
- I.S. EN 13201-2:2015 Road Lighting – Part 2: Performance requirements
- BS 5489-1:2020 Code of Practice for the Design of Road Lighting
- CIBSE Lighting Guide 6: The Outdoor Environment
- S.I. No. 291 of 2013 Safety, Health and Welfare at Work (Construction) Regulations 2013
- Kildare County Council Public Lighting Guidelines
- IS10101: 2020 National Rules for Electrical Installations

### 3. Proposed light fittings

Overview of lighting systems proposed for McAuley Place, Naas.

- 5M High Pole Mounted LED light Fitting (Type A), with full cut-off optics to minimize upward light spill.
- 1M High Bollard LED light Fitting (Type B).
- Ground Recessed LED light Fitting (Type C).
- Wall Mounted Up & Down LED light Fitting (Type D).

Please refer to lighting fixtures layout that accompanies this report.



*Figure 2: Luminaire type*



*Figure 3: Luminaire type*



*Figure 4: Luminaire type*



*Figure 5: Luminaire type*

### **3.1 Lighting Design Requirements**

Prior to lighting calculations being performed the lighting classification and environmental zone must be determined.

The lighting classification is determined by the local council however where this is not available lighting class can be determined using the parameters outlined within the EN13201-2:2015 & BS 5489-2:2020 Code of Practice for the Design of Road Lighting. Lighting class for calculation purposes are outlined below.

The environmental zone is determined by the local council however, where this is not available lighting class can be determined using the parameters outlined within the TII (Transport Infrastructure Ireland) DN-LHT – 03038 Design of road lighting for national road network and ILP – (Institution of lighting professionals) – Guidance notes for the reduction of obtrusive light. The environmental zone is considered to be E3 (Suburban Environment) in accordance with ILP Guidance Notes for the Reduction of Obtrusive Light.

The design of the lighting shall be in accordance with the following criteria and guidelines outlined in section 2.2 of this report. The classification requirements for the areas focused on in this report are as follows:

- Entrance Roads and Pedestrian Walkway – IS EN 13201-2, Table 3: Class P3

## 4. Conclusion

To conclude, the proposed lighting layout has been designed in accordance with current regulations and meets specific criteria within the relevant sections of IS EN 13201:2015 / BS 5489-1:2020. The design proposed is to use 5M high Column mounted light Fixture, 1M High Bollard, Ground Recessed and Wall mounted LED fitting.

Other relevant points to note:

- This design incorporates the use of low energy LED lighting.
- The lighting layout is non-intrusive and ties in with the surrounding landscape.
- The lighting is timer/photocell controlled and lighting levels can be adjusted to suit the required lighting levels.
- No light is allowed within A 20meter Riparian Corridor from the edge of the riverbank.