

External Lighting Planning Statement

BG Robertsbridge

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Approval Sheet and Foreword

Our ref: 10366-42

External Lighting Statement For Planning

For

BG Robertsbridge

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P01	13/11/2020	Official issue for review/comment

FOREWORD

- This document has been prepared by Banyard Consultants Ltd with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it by agreement with the Client.**

Distribution Sheet

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Introduction

This report briefly describes the requirements and proposals for external lighting for British Gypsums Robertsbridge development.

Primarily adequate lighting is required for the safe passage of people around the re-developed buildings and the movement of heavy machinery, lorries and/or trucks.

The External lighting installation shall be designed to:-

- Allow the designated areas to be lit in periods of darkness when the new building is operational (via photocell/time or day/time of month controls) to provide safe passage of persons.
- Enhance security of the site by detecting and deterring unauthorised persons (via detection devices).
- Provide illumination for the site CCTV installation.
- Superior light distribution control using LED Luminaires to limit spread of light entering neighbouring properties.
- A design to work alongside the areas 'outstanding beauty' status.

Lorry Car Park Controls

The lorry car park would include the following controls and strategies:

- Seasonal timeclock and photocell arrangement.
- 8 metre tall column mounted LED luminaires.
- Dimming the illuminance of the site from 100% down to a pre-set value of 10% when the area is not in use.
- Good presence detection coverage is needed to ensure safety of the site users, ensuring good illuminance is present only when needed.
- Movement sensors to control the dimming of the Lorry Yard lighting via PIR's mounted to each column.

Building Perimeter Illuminance

The buildings perimeter which is used for personnel to enter the lorry car park will have the following:

- Building mounted luminaires installed at 3.5m above finished floor level.
- Seasonal timeclock and photocell arrangement.
- Dimming the illuminance of the site from 100% down to a pre-set value of 10% when the area is not in use.
- Movement sensors to each building elevation to control the dimming of the building perimeter lighting.

Benefits

The following benefits would be obtained:

- Reduce unnecessary illumination when an area of the Workplace/Lorry Yard is not in use.
- Reduce energy usage and therefore becoming an energy efficient site.
- Reduce building façade illumination when the building perimeter is not in use, therefore reducing the facades illuminance, and therefore its visual presence.

Light pollution

In line with the requirement to limit light pollution, luminaires shall be selected and positioned to limit lighting into adjoining residential or other areas.

All luminaires have been selected to have 0% upward illumination therefore not contributing to any 'sky glow'.

Design Standards

The following design illumination levels will be provided as appropriate:-

- Building perimeter - 10lux average
- Lorry Yard - 20lux average

The design standards and regulations to be adopted are:-

- CIBSE Lighting Guide LG6: The Outdoor Environment 1992
- BREEAM New Construction 2018, Pol 04, Ene 03 & Hea 01.
- Institution of Lighting Professionals (ILP) Guidance Notes for the Reduction of Obtrusive Light 2020.
- BS 5489-1:2013 Code for the practice for the design of road lighting.
- BS EN 12464-2:2014 Lighting & Lighting – Lighting of Workplaces – Part 2 Outdoor Workplaces.

The above attributes would be a large benefit to neighbouring properties and protecting the areas 'outstanding beauty' status.