

**Client:** Butlins Skyline Limited

**Project:** St Joseph's Bognor Regis

## External Lighting Statement

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**DATE** December 2016

**Revision** 1

CD International Building Services Engineers Limited

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## ISSUE, REVISION AND QUALITY ASSURANCE DOCUMENT RECORD

| ISSUE | DOCUMENT PREPARED |           |               | DOCUMENT CHECKED |           |               |
|-------|-------------------|-----------|---------------|------------------|-----------|---------------|
|       | Name              | Signature | Date          | Name             | Signature | Date          |
| 1     | M. Pratt          |           | December 2016 | J. Ross          |           | December 2016 |
| 2     | M. Pratt          |           | December 2016 | J. Ross          |           | December 2016 |
|       |                   |           |               |                  |           |               |
|       |                   |           |               |                  |           |               |

| Rev | Date          | Description                                        | Eng  | QA  |
|-----|---------------|----------------------------------------------------|------|-----|
| 1   | December 2016 | Modified clauses 1, 2, 3, add 'in ground luminaire | MFBP | JPR |
|     |               |                                                    |      |     |
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## **1 INTRODUCTION**

This report defines the proposed external lighting covering the buildings known as St Joseph's, Essex House (1-2 Walton Road) and Blackbird Cottage located within the square shaped block bounded by Albert Road, Walton Road, Walton Avenue and The Esplanade Grande at West Sussex PO21 1NL.

The design of the proposed external lighting will conform to the requirements as detailed in the Obtrusive Lighting Limitations for External Lighting Installations (GN01 2011) and the reduction of night-time light pollution.

## **2 EXECUTIVE SUMMARY – ENERGY STRATEGY**

The Site located in Bognor Regis, falls under the authority of the Arun District Council for the local development orders.

Energy efficiency has been considered when defining the external strategies. Therefore the lighting to the walk ways, access routes and entrances to the buildings will use low energy high efficiency lamps, mainly LED with the upward light spillage being controlled. The operation of the luminaires will be controlled to the required usage periods by photo cell and time clocks and PIR's with short overruns that will provide safety and access lighting to the entrances and around the site.

## **3 EXECUTIVE SUMMARY – LUMINAIRE TYPES**

The luminaire types defined hereafter have been selected to provide adequate illumination to the respective areas without causing a nuisance to surrounding areas. In particular the column lantern proposed controls the light output such that only 1.0 lux penetrates to the boundary of the adjacent residences. The level of control can be seen on the lux level plots in Appendix A. The photometric data for the finally approved luminaire types will reflect the data used in this statement.

### **3.1 IN-GROUND LUMINAIRES**

- To illuminate the vehicular and pedestrian walkways from Walton Avenue
- Using a 1000mm long stainless steel in-ground luminaire to IP67 using 1.92 watt LED lamp with a long rated life providing 255 lumen output.
- The light spillage is controlled by a white safety glass to class 111 that can withstand a pressure load of 1000kg

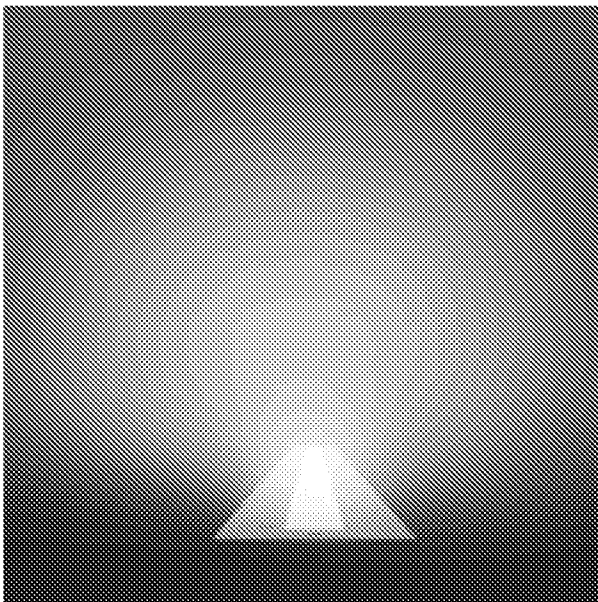
### **3.2 WALL MOUNTED BULKHEADS**

- To illuminate the front doors to the building, the open car park space and the access ways between the buildings.

- Using a wall mounted eyelid luminaire controls the light spillage to the immediate area thereby reducing the light pollution to the surrounding areas.
- The luminaire is controlled on/off by microwave sensor which switches off when no presence is detected.
- The light source will utilise 27 no 0.6 watt LED providing 16.5watt output at 250mA giving a luminance flux of 550 lumen's for energy efficiency and uniform light output.
- The luminaire is constructed to IP65 – IK 10 – Class 1 with a corrosion protected die cast aluminium with a polyester coat finish with UV stabilised polycarbonate diffuser which is vandal resistance.

## **Appendix A**

## A1 – IN-GROUND LUMINAIRE



## A2 – WALL LUMINAIRES

