



BCP (Havant) LLP  
c/o Barwood Capital

Planning Application  
For Development at  
Stanbridge Road  
Havant  
PO9 2NG

External Lighting Assessment

Planning Application  
Single Unit Scheme



**Client Name:** BCP (Havant) LLP

**Client Address:** c/o Barwood Capital  
Roman Way  
Northampton  
NN4 5EA

**Property:** Stanbridge Way  
Havant  
Hampshire  
PO9 2NG

**Project Reference:** 3696

**Issue:** Planning Submission – Single Unit Scheme

**Date:** July 2016

**Prepared by:** PdJ

**Checked by:** RNI

**Validated by:** RNI



## CONTENTS

|                               | <b>PAGE</b> |
|-------------------------------|-------------|
| <b>1.00 Introduction</b>      | <b>3</b>    |
| <b>2.00 External Lighting</b> | <b>4</b>    |

### **Appendices**

Drawing No. 3696/E/100 – Site Wide External Lighting Layout

Drawing No. 3696/E/101 – Site Wide External Lighting Design Criteria



## **1.00 INTRODUCTION**

The purpose of this document is to summarise the intended external lighting to be provided to the industrial unit development site known as Stanbridge Road, Havant, Hampshire, PO9 2NT on behalf of BCP (Havant) LLP c/o Barwood Capital.



## 2.00 EXTERNAL LIGHTING

The external lighting scheme for the development has been sub-divided into the following usage areas:

1. Car park
2. Roadway
3. Service yard

The separate usage areas are indicated on drawing number 3696/E/101 contained in the appendix and have the following external lighting design criteria, the lux levels quoted are at roadway surface level.

|          |                                 |
|----------|---------------------------------|
| Car park | 10 lux average<br>5 lux minimum |
| Roadway  | 10 lux average<br>5 lux minimum |
| Railway  | Less than 2 lux minimum         |

The proposed external lighting scheme, based on the above criteria, is indicated on drawing number 3696/E/100 contained in the appendix. The scheme consists of building and column mounted LED floodlights and column mounted LED lanterns.

The following conclusions can be drawn from the illuminance levels indicated on drawing number 3696/E/100:

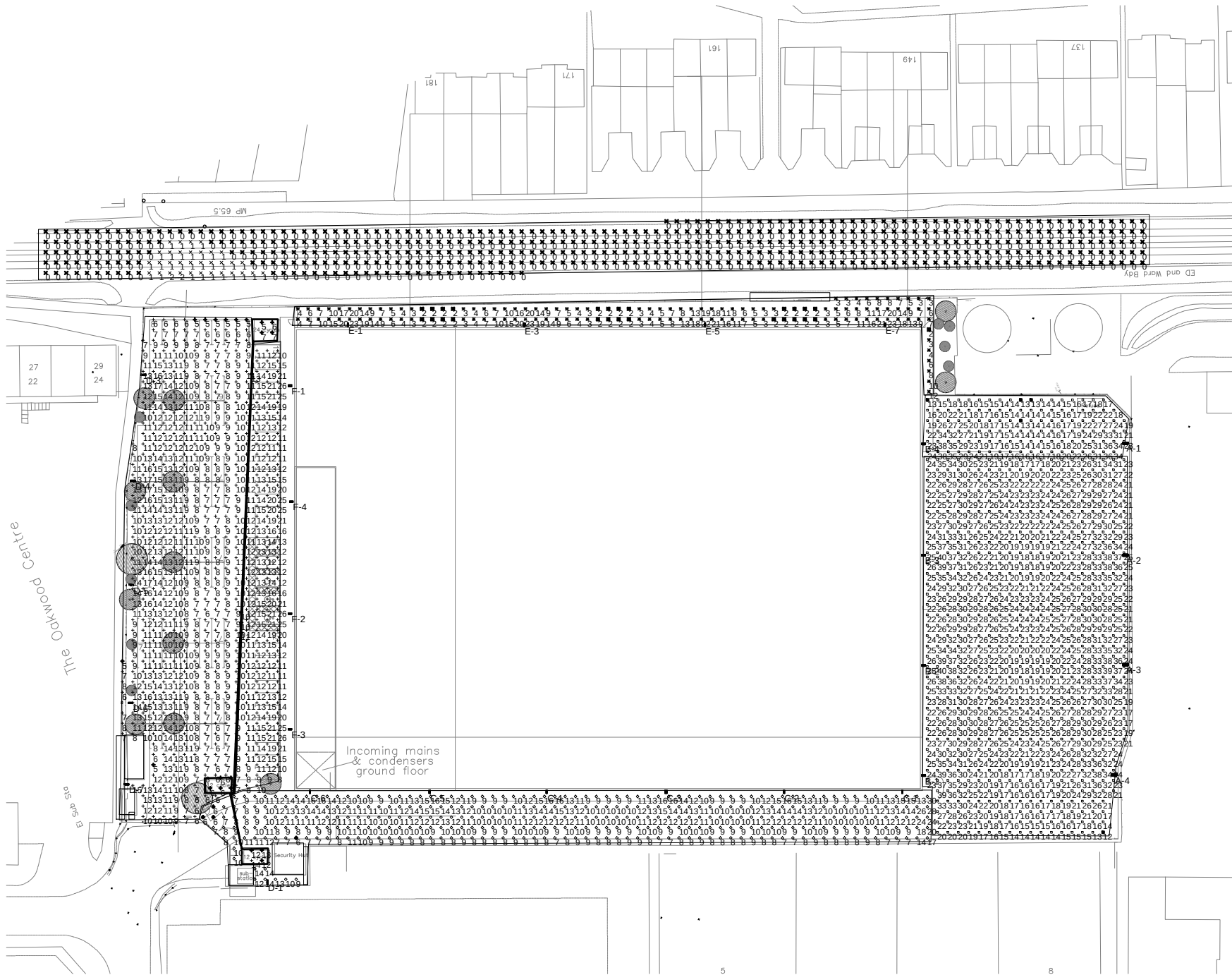
1. Based on the lux levels plotted on the attached drawing the average illuminance values meet the design criteria. Due to limited space where luminaires can be located the illuminance values in certain areas of the service yards and car parks exceed minimum requirements in order to achieve overall required average illuminance level.
2. The column mounted floodlights are located at the perimeter of the yards to minimise light spill to the surrounding areas. The proposed lighting assessment does not take into consideration the trees planted alongside the perimeter of the development. Therefore the light spill into this area will be further reduced below the values shown on the drawing.
3. As the operational requirements of the service yard dictate the location of the lighting columns and the applicant's requirement to reduce lighting energy consumption by using LED luminaires the lighting levels in the railway line buffer area have been minimised.
4. The 10 lux illuminance level isoline generally follows the boundary of the car parks and service yards. There are a couple of instances, where to meet the lighting design criteria, the isoline crosses the site boundary.
5. The 5 lux illuminance level isoline generally follows the same principles as the 10 lux isoline.
6. The 2 lux illuminance level isoline is generally a few meters away from the site boundaries and generally does not cross the river bank.

The proposed luminaire's details are stated on drawing number 3696/E/100.



## **APPENDICES**

Drawing No. 3696/E/100 – Site Wide External Lighting Layout  
Drawing No. 3696/E/101 – Site Wide External Lighting Design Criteria



- NOTES:-
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND LEGEND DRAWING.
  2. DO NOT SCALE FROM THIS DRAWING.

| Line | Quantity | Symbol | Description                    | Notes                          | Material        | Light Level (lm) | Power (W) |
|------|----------|--------|--------------------------------|--------------------------------|-----------------|------------------|-----------|
| A    | 1        | 1      | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm | 10000            | 100       |
| B    | 1        | 2      | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm | 10000            | 100       |
| C    | 1        | 3      | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm | 10000            | 100       |
| D    | 1        | 4      | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm | 10000            | 100       |
| E    | 1        | 5      | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm | 10000            | 100       |
| F    | 1        | 6      | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm | 10000            | 100       |
| G    | 1        | 7      | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm LED Floodlight | 1000mm x 1000mm | 10000            | 100       |

| Avg/Min                | Symbol | Avg    | Max    | Min    | Min/Avg |
|------------------------|--------|--------|--------|--------|---------|
| Cycle Parking          | +      | 9 lux  | 14 lux | 5 lux  | 0.56    |
| Footpath               | X      | 8 lux  | 23 lux | 2 lux  | 0.25    |
| North East Parking     | □      | 20 lux | 38 lux | 13 lux | 0.65    |
| Service Yard           | □      | 25 lux | 40 lux | 12 lux | 0.48    |
| Southern Access Road   | ◇      | 11 lux | 30 lux | 6 lux  | 0.55    |
| Split Light to Footway | X      | 0 lux  | 2 lux  | 0 lux  | N/A     |
| West Car Park          | +      | 11 lux | 26 lux | 5 lux  | 0.45    |

| Ref. | Revision | Date |
|------|----------|------|
|------|----------|------|

PRELIMINARY



Watkins Payne Partnership 51 Staines Road West, Sunbury-on-Thames, Middlesex, TW16 7AH  
Tel: 01892 751641 Fax: 01892 785599 Email: wpp@wppgroup.co.uk Web: www.wppgroup.co.uk

Client

Project  
**VELOCITY  
STANBRIDGE ROAD  
HAVENT**

Title  
**SINGLE UNIT SCHEME  
EXTERNAL LIGHTING LAYOUT**

|                |            |             |       |
|----------------|------------|-------------|-------|
| Date           | JUNE 2016  | Scale at A1 | 1:500 |
| Drawn By       | PDJ        | Validated   |       |
| Checked        |            |             |       |
| Drawing Number | 3696/E/100 | Revision    | P1    |



- NOTES:-**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND LEGEND DRAWING.
  2. DO NOT SCALE FROM THIS DRAWING.
- LEGEND:-**
- FOOTPATH, SECURITY/EMERGENCY LIGHTING  
5 LUX AVERAGE
  - SERVICE YARD  
25 LUX AVERAGE AT 40% UNIFORMITY
  - CAR PARK, CIRCULATION, ROADS, PAVEMENTS  
10 LUX AVERAGE  
5 LUX MINIMUM
  - CYCLE RACKS  
5 LUX AVERAGE AT 25% UNIFORMITY
  - RAILWAY LINE  
LESS THEN 2 LUX AVERAGE

| Ref.                                                                                                                                                                                                                                                                                                                                                                                                            | Revision   | Date              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|
| PRELIMINARY                                                                                                                                                                                                                                                                                                                                                                                                     |            |                   |
| <div><div></div><div><div>watkins payne</div><div>designed · engineered · focused</div></div></div> <div><div>Watkins Payne Partnership</div><div>51 Staines Road West, Sunbury-on-Thames, Middlesex, TW16 7AH</div><div>Tel: 01932 751641 Fax: 01932 755550 Email: wpp@wppgroup.co.uk Web: www.wppgroup.co.uk</div></div> |            |                   |
| Client                                                                                                                                                                                                                                                                                                                                                                                                          |            |                   |
| Project                                                                                                                                                                                                                                                                                                                                                                                                         |            |                   |
| VELOCITY<br>STANBRIDGE ROAD<br>HAVENT                                                                                                                                                                                                                                                                                                                                                                           |            |                   |
| Title                                                                                                                                                                                                                                                                                                                                                                                                           |            |                   |
| SINGLE UNIT SCHEME<br>EXTERNAL LIGHTING CRITERIA                                                                                                                                                                                                                                                                                                                                                                |            |                   |
| Date                                                                                                                                                                                                                                                                                                                                                                                                            | JUNE 2016  | Scale at A1 1:500 |
| Drawn By                                                                                                                                                                                                                                                                                                                                                                                                        | PDJ        |                   |
| Checked                                                                                                                                                                                                                                                                                                                                                                                                         |            | Validated         |
| Drawing Number                                                                                                                                                                                                                                                                                                                                                                                                  | 3696/E/101 | Revision P1       |