

Street Lighting Legend:

Proposed S38 Lighting Column

Qty. 18
Symbol LC 1
Column Ref: 6m steel (as standard detail HCC10/L/045)
Colour: Column & Lantern to match BS4800 12B21 "Lovat Green"
Lantern Ref: Philips Micro Luma [BGP615]
Light Source: 12 LED Warm White [3000K]
Flux: 1.40 km
Lantern Mounting: Post Top
Lantern Inclination: 0°
Lantern Optic Ref: DM70
Lantern Protector: Flat Glass
Control Gear Ref: Electronic Dali Dimmable
CMS: Mayflower S6000 Socket with External Node

Proposed S278 Relocated Lantern (not column)

Qty. 2
Symbol EX LP 44
Column Ref: 10m steel (as standard detail HCC10/L/015)
Colour: Column & Lantern to match BS4800 12B21 "Lovat Green"
Lantern Ref: Philips Iridium [SGS253] As existing
Light Source: As existing
Flux: As existing
Lantern Mounting: Post Top
Lantern Inclination: 5°
Lantern Optic Ref: As existing
Lantern Protector: As existing
Control Gear Ref: As existing
CMS: As existing

Legend:

- Site Boundary
- EX LP 19 Existing Column and Lantern to remain
- Existing Tree
- Proposed Tree
- Tree pruning required as per HCC standard detail HCC10/L/170

Indicative Lux ISO contour:

- 0.20 Lux ISO Contour
- 0.40 Lux ISO Contour
- 1.70 Lux ISO Contour
- 3.00 Lux ISO Contour
- 5.00 Lux ISO Contour
- 10.00 Lux ISO Contour

This drawing is to be read in conjunction with the Reality Lighting Outdoor Report, ref. C85850-C110 & C111.

The Developer is to liaise with Mayflower Complete Lighting Control for the commissioning of the Mayflower system. Refer to HCC TG13 Section 3.24.

Street Lighting Notes:

- The proposals have been designed to meet the requirements of the following target lighting classes:
 - P6 (S38)
 - C3 (S278)
- This design has been prepared in accordance with HEA-HEMSA Guidance Note - CDM 2015 Regulations, Issue 1.1, dated 09/04/15 Procedure 3 - Detailed Design - based on information supplied by the Client.
- Works to be carried out in accordance with this drawing, jnp group lighting reports C85850-C110 & C85850-C111, current HCC standard detail drawings (HCC10/L Series), HCC design guidance TG13.
- All apparatus to be:
 - Installed and tested in compliance with BS7671 latest edition.
 - Numbered/labelled as agreed with HCC Engineer. The lighting column numbering on this drawing relates to the Reality Lighting design report for the S38 Street Lighting only.
 - New at the time of installation and supported by relevant manufacturers guarantees and data sheets.
- All works should be carried out by suitably qualified and competent persons in accordance with but not limited to, G39 'Working in the vicinity of DNO equipment', 'Working at height regulations', 'Electricity at work regulations', 'Safe digging practices HSG47' 'Avoiding danger from underground services and 'Code of practice for electrical safety and highway electrical operations' and CDM 2015 Regulations.
- It is the responsibility of the installing organisation to undertake final due diligence and determine the exact locations of any statutory undertakers services prior to the commencement of any construction works on site.
- Contractors should satisfy themselves that any utility drawings affecting the scheme are accurate and up to date from the commencement of construction works, in some circumstances, trial holes of a suitable size are to be dug before planned installations of any columns.
- Iso-lux contour lines are shown indicatively.
- All columns to be at the rear of footway or at clearance indicated. If columns cannot be installed as set out in this drawing then the designer is to be consulted for alternative positions.
- Column doors to be situated that workers will be facing oncoming traffic.
- All arrangements including cabling & ducting design to be undertaken by the Contractor.
- Electrical supply to the street lighting columns to be undertaken by Bellway Homes.
- All luminaires to be constructed to accept Mayflower six pin S6000 NEMA socket.

S38 Street Lighting - Grid 1
Class P6 with 1.34 S/P Ratio:
Eav = 1.33 - 1.99
Emin = 0.40

Results:
Eav = 1.88
Emin = 0.42

S278 Street Lighting
Class C3:
Eav = 15.00 min
Emin/Eav = 0.40 min

Results:
Eav = 17.61
Emin/Eav = 0.27

S38 Street Lighting - Grid 2
Class P6 with 1.34 S/P Ratio:
Eav = 1.33 - 1.99
Emin = 0.40

Results:
Eav = 1.71
Emin = 0.44

This drawing is based on the following information provided by others:

- Topographical Survey undertaken by Sitrine Geomatic Surveyors, ref. 05HA01, dated January 2018.
- Site Layout plan by OSP Architecture, ref. 17300 - P101 Rev B, dated July 2018.
- Tree Survey by Bernie Harverson, ref. 0787 - BJH 01/02, dated October 2015.

Existing Utilities

The contractor shall refer to the existing and proposed services information, provided by Bellway Homes (Wessex).

It is the Contractor's responsibility to liaise with all relevant services companies to ensure that all existing services are accurately located and adequately protected during construction.

It is the Contractor's responsibility to liaise with the Developer and all relevant services companies to ensure that all new and diverted services are accurately located and adequately protected during construction.

All works to existing services to be undertaken as required by the Developer. Refer to Developer design.

Notes:-

- Where this drawing has been issued in electronic .dwg format it has been done so in good faith. jnp group do not take any responsibility for any inaccuracies in the electronic data, which should be checked against the paper (or .pdf) drawing issue. Any apparent discrepancies should be immediately reported to jnp group. The electronic .dwg file should not be assumed to be to scale and should not be used for 'overlying', setting out or checking of any third party information. All dimensions should be taken from the paper (or .pdf) version of the drawing. Electronic drawings may contain third party information, jnp group take no responsibility for this information, which should be checked against the originators paper drawing(s).
- All working dimensions to be checked on site.
- Do not scale.
- Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to The Engineer for decision.
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Health and Safety Note:

The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

Rev.	Date	Amendment	By	Chk.
Status	Preliminary			

Bellway

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Client	Bellway Homes		
Job	Bartons Road Havant, Hampshire		
Title	S38 & S278 Adoptable Street Lighting		
Scale	1:500	@ A1	Date September 2018
Drawn by	CT	Checked by	Approved by
Drawing No.	C85850-D116		Rev.
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