

HEALTH & SAFETY NOTE

All installation and existing equipment removal works should be carried out by suitably qualified and competent persons in accordance with, but not limited to, G39 'working in the vicinity of (I)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'. GS6 "avoidance of danger from overhead electric lines" and the Electricity Association engineering recommendation G39/1, 'safety code of practice E4 covering electrical safety and planning, installation, commissioning and maintenance of public lighting and other street furniture.' Contractor advised to use suitable underground services locator in conjunction with services drawings prior to commencement of excavation works. New underground services and overhead cables may be installed following issue of this drawing and during phased works. Contractor must obtain most current and up to date services drawings and confirm exact locations of services prior to and during works. It is the responsibility of the installing organisation to undertake final due diligence and determine the exact location of any statutory undertakers services prior to commencement of works on site.



- DESIGN METHODOLOGY AND NOTES:
- 1) Proposed lighting class for residential roads = P5 (Eav=3.00 to 4.50 Emin=0.60)

2) Proposed lanterns are specified from WC preferred lantern configuration list.

3) Site periphery footpath lighting requirements to be confirmed by Client / WC.

4) Road lighting classes and lighting equipment are in line with WC standards.

5) Warm white 3000k LED's are proposed which reduces effect on bat activity and feeding areas. Lantern optics are selected which provide directional illumination along roads. Lanterns are to be mounted at 0deg tilt, to cut off upward light pollution. Where able, columns are located facing away from hedge rows and potential bat commuting routes. Rear cowls are proposed to be fitted onto lanterns where back spill is to be minimised.

6) An Easement runs along the East to West road. Several columns are proposed to be located past the 5m clearance. Confirmation required from the services owner that proposed column locations are acceptable.

- LEGEND
- BO

Adoptable build outs included as in the agreement plan.

Adoptable roads outline for lighting.

Proposed trees and shrubs.

Existing adopted road lighting column.

RC

Lantern to have a factory fitted **REAR COWL**.

Lux contours as shown include maintenance factor.

0.50 Lux

3.00 Lux

5.00 Lux

Adoptable lighting scheme must be installed in accordance with approved drawing. Any proposed change or variation will require proposals to be re-submitted to Gloucestershire Council for review and further technical approval.

S38 ROAD LIGHTING SCHEDULE:

- CU Phosco galvanised tubular stepped steel lighting column of **5m** mounting height. Root base, glass flake treated; 250mm above ground (R2505T01/Wilts). Complete with 76mm dia post top adaptor. Ordered & installed to current Wiltshire Council specification. Urbis Axia 3.1, 8LED lantern. Warm white(3000k). Colour grey, to be post top mounted at **0** degree tilt. Code: Axia 3.1 8 Oslon square giant 540mA. Optic; 52673 (Non CLO 15w). UMSUG Code; 42 0015 0000 100. Lantern Reference: C2.1 -3k.
- CU Phosco galvanised tubular stepped steel lighting column of **5m** mounting height. Root base, glass flake treated; 250mm above ground (R2505T01/Wilts). Complete with 76mm dia post top adaptor. Ordered & installed to current Wiltshire Council specification. Urbis Axia 3.1, 8LED lantern. Warm white(3000k). Colour Black, to be post top mounted at **0** degree tilt. Code: Axia 3.1 8 Oslon square giant 270mA. Optic; 52663 (Non CLO 7w, 1.13klm). UMSUG Code; 42 0007 0000 100. Lantern Reference: B1.1 -3k.
- CU Phosco galvanised tubular stepped steel MID HINGE lighting column of **5m** mounting height. Root base, glass flake treated; 250mm above ground (RM505T01DL2/WILTS). Complete with 76mm dia post top adaptor. Ordered & installed to current Wiltshire Council specification. Urbis Axia 3.1, 8LED lantern. Warm white(3000k). Colour Black, to be post top mounted at **0** degree tilt. Code: Axia 3.1 8 Oslon square giant 270mA. Optic; 52963 (Non CLO 7w, 1.13klm). UMSUG Code; 42 0007 0000 100. Lantern Reference: A1.1 -3k.

SWITCHING NOTES:
Osram Optotronic DIM4 suitable for Telensa CMS DALI auto switch (Note: Sensor ready - may need to be factory disabled). 7 pin NEMA socket mounted. Zodion SS6 20lux photocells are an option for lantern on/off control prior to installation of Telensa CMS. Telecell's are to be fitted to lanterns prior to adoption hand over. Telecell reference (bar code) to be affixed within column base & on installation documents

DIMMING REGIME: D19.
Dimming to be applied to all adoptable lanterns. Manufacturer set lantern dimming to 75% output from 8pm to 11pm and 50% output from 11pm to 6am. Rest of time output at 100%. **NOTE: Provision for override of pre programmed dimming by DALI control is required.**

ADOPTABLE STANDARD EQUIPMENT POWER SUPPLIES:
Road lighting columns to be supplied via un-metered statutory low voltage supply. Preferably District Network Operator (DNO). If an IDNO is proposed, a service level agreement must be in place prior to commencement of works. Without such agreement in place, the scheme will not be adopted. Internal wiring to be 2.5mmsq, 3 core flexible arctic grade 230v (Blue). Charles Endirect or Lucy Lighting 32A double pole, fused isolator (refer to current Wiltshire Council specification document for single or multi fused circuit isolator specification) to be mounted within lighting column above DNO cut out. Network provider: *TBA by Client.*

WHEN ORDERING LIGHTING EQUIPMENT, IT MUST BE STATED TO THE MANUFACTURER THAT EQUIPMENT IS ISSUED IN COMPLIANCE WITH MOST CURRENT WILTSHIRE COUNCIL SPECIFICATION AND PARTICULAR REFERENCE (WHERE APPLICABLE).

- GENERAL SCHEME NOTES:
- A) Any alterations to the positions of columns and/or associated equipment to that as shown on this drawing should be referred to the designer to ensure compliance with lighting level requirements. Re-submission to WC for further approval will be required for any proposed change.

B) Adoptable columns to be located to back of footway within adoptable land or to rear of service strip or to a minimum of **0.8m** back of kerb into soft verge. Where columns are located in un-adopted land, an adoptable **1mSq build out** to WVC specification, connected to the adoptable highway is to be built and included on the adoptable plan agreement. Where necessary (to facilitate safe location of column) the adoptable build out should be extended to where the column is detailed to be located. Ease of access for column maintenance must be ensured prior to planting of unit.

C) All electrical and equipment installation works are to be carried out in accordance with the Electricity at Work Regulations 1989, requirements of the latest edition of the IEE wiring Regulations BS7671, manufacturers instruction and where adoptable, to current Wiltshire Council residential specification (RevS currently under review). WC standard detail drawings are available and should be referenced with this drawing.

D) All column doors to face away from on coming traffic unless access restricted or otherwise specified. Ensure 90deg orientation of lanterns to kerb.

E) Final column numbers will be provided by WC following technical approval of lighting proposals. Numbering to be affixed to adoptable columns in line with Wiltshire Council specification. Numbering standard detail (SD/1400/10). Numbers to be affixed 2m above ground facing carriageway.

F) In order to avoid future maintenance issues, the planting of trees and shrubbery in the vicinity of street lighting equipment is to be avoided. Where new lighting columns are to be planted, any proposed trees in close vicinity <4m should be reviewed and re-located.

G) This lighting design has been compiled with reference to Wiltshire Council condition to provide a suitable lighting design which considers potential bat commuting routes along boundary hedgerows and trees. The design considers Ecological and Environmental aspects in the specification of lighting scheme equipment, column locations and lighting class. Column heights are kept low at 5m. Specified lanterns are warm white (3000k), energy efficient LED, selected from Wiltshire Council preferred equipment list. Lanterns are to be post top mounted at 0deg tilt to prevent upward light pollution. Lighting class is low at P5 and will be further reduced by CMS dimming of light output and power usage during less busy times.

H) Columns are located to face away from sensitive areas and where beneficial, rear cowls are specified.

I) Any additional private area lighting or private wall mounted luminaires being installed by Contractor should be suitable low wattage LED type and carefully selected to ensure power efficiency and light output avoiding over illumination, glare and light pollution. Motion sensors should be used to switch on any security lighting. Security lighting should be mounted & angled to minimise spill past property boundary.

J) Locations of street lighting units should be included on sales plans for buyer information prior to sale.

- WILTSHIRE COUNCIL SPECIFIC NOTES:
1. ALL NEW LIGHTING INSTALLATIONS MUST INCLUDE FOR TELENESA CMS. NEW 7 PIN NEMA MOUNTED TELECELLS WITH INTEGRAL GPS AND DALI DIMMING - T2-E1-NB-3 BLACK, TO BE AFFIXED TO EACH LANTERN.

2. WHERE NECESSARY A BASE STATION WILL ALSO BE REQUIRED AS PART OF THE COMPLETE CMS SYSTEM.

3. WITHOUT INSTALLATION OF TELECELLS, THE SITE SHALL NOT BE DEEMED ACCEPTABLE FOR ADOPTION.

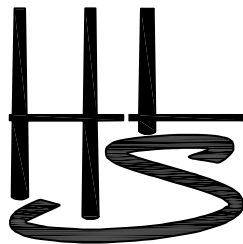
4. ALL STREET LIGHTING IS TO BE INSTALLED IN ACCORDANCE WITH WILTSHIRE COUNCIL MAINTENANCE SPECIFICATIONS AND APPROPRIATE STANDARD DETAILS. REFER TO SD/1300/02, SD/1400/01, SD/1400/05 AND SD/1400/10.

5. CONTRACTOR TO ALSO REFER TO WILTSHIRE COUNCIL RESIDENTIAL LIGHTING AND NON RESIDENTIAL SPECIFICATION.

6. UNITS POSITIONED BEHIND THE SERVICE STRIP OR WITHIN UN-ADOPTED LAND WILL REQUIRE A 1mSq FOOTWAY CONSTRUCTION BUILD OUT WHICH IS TO BE INCLUDED IN THE ADOPTION AREA / AGREEMENT PLAN.

24/10/25	Draft 5	Revised Client layout.
17/10/25	Draft 4	Co-ordinated tree locations.
14/10/25	Draft 3	Revised Client layout.
02/10/25	Draft 2	Revised Client layout and to Client comment.
01/09/25	Draft 1	Issued to Client for comment.

HIGHWAY LIGHTING SOLUTIONS Ltd



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Project:

Redcliffe Homes
Adoptable Road Lighting

Location:

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AGR XXXXX

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Scale @ A1:	1:500	Drawing No.:	HLS-1003-C
		Sheet:	1 of 1
		Revision:	Draft 5