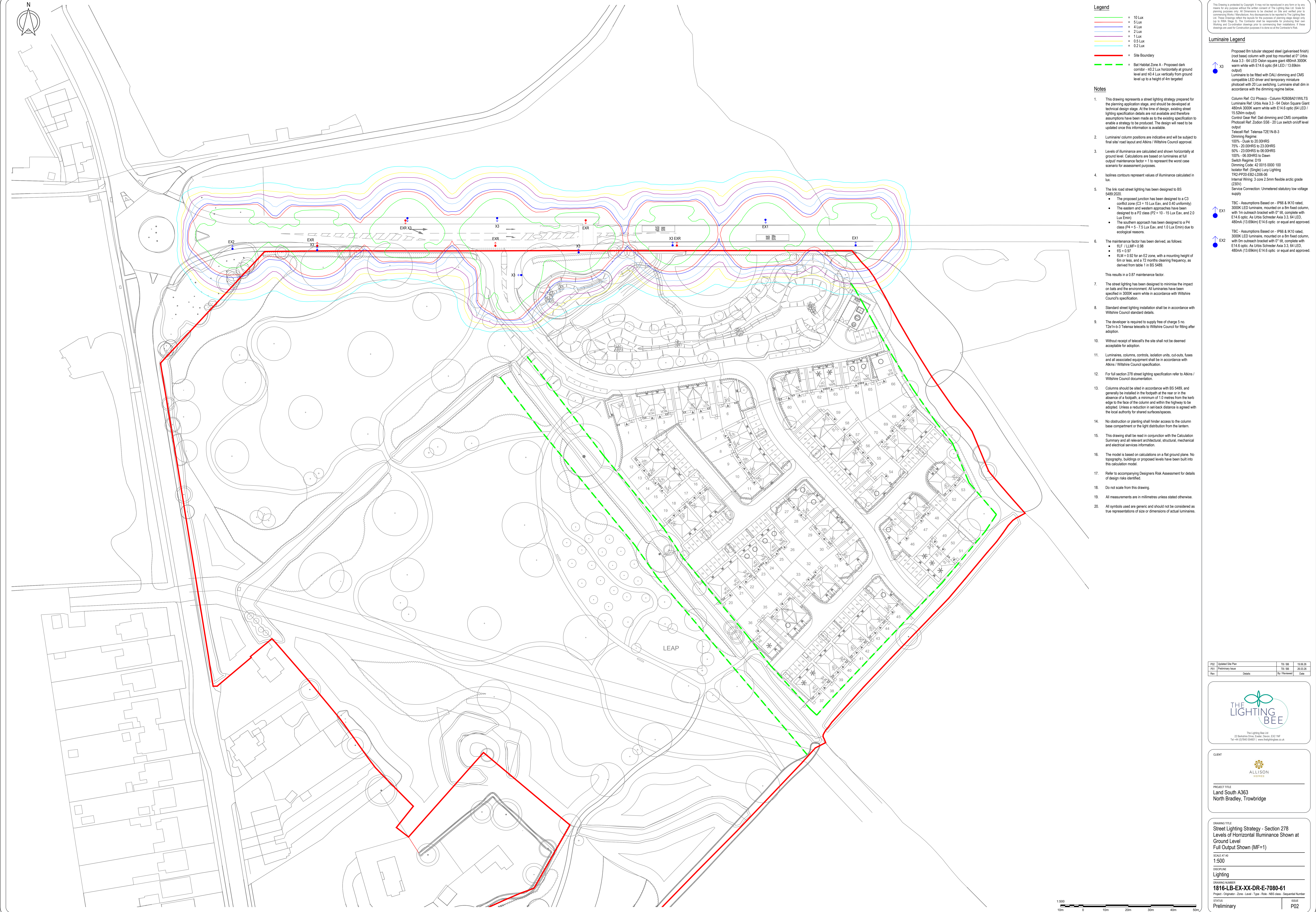




Legend

- 10 Lux
- 5 Lux
- 4 Lux
- 2 Lux
- 1 Lux
- 0.5 Lux
- 0.2 Lux
- Site Boundary
- Bat Habitat Zone A - Proposed dark corridor - 50.2 Lux horizontally at ground level and 50.4 Lux vertically from ground level up to a height of 4m targeted

Notes

- This drawing represents a street lighting strategy prepared for the planning application stage, and should be developed at technical design stage. At the time of design, existing street lighting specification details are not available and therefore assumptions have been made as to the existing specification to enable a strategy to be produced. The design will need to be updated once this information is available.
- Luminaire/ column positions are indicative and will be subject to final site road layout and Atkins / Wiltshire Council approval.
- Levels of illuminance are calculated and shown horizontally at ground level. Calculations are based on luminaires at full output/ maintenance factor = 1 to represent the worst case scenario for assessment purposes.
- Isolines contours represent values of illuminance calculated in lux.
- The link road street lighting has been designed to BS 5489:2020.
 - The proposed junction has been designed to a C3 conflict zone (C3 = 15 Lux Eav, and 0.40 uniformly)
 - The eastern and western approaches have been designed to a P2 class (P2 = 10 - 15 Lux Eav, and 2.0 Lux Emin)
 - The southern approach has been designed to a P4 class (P4 = 5 - 7.5 Lux Eav, and 1.0 Lux Emin) due to ecological reasons.
- The maintenance factor has been derived, as follows:
 - 1/5 / LUMF 0.98
 - 1/5 = 0.97
 - 1/UM = 0.92 for an E2 zone, with a mounting height of 6m or less, and a 12 months cleaning frequency, as derived from table 1 in BS 5489.This results in a 0.87 maintenance factor.
- The street lighting has been designed to minimise the impact on bats and the environment. All luminaires have been specified in 3000K warm white in accordance with Wiltshire Council's specification.
- Standard street lighting installation shall be in accordance with Wiltshire Council standard details.
- The developer is required to supply free of charge 5 no. 12a 1m-b-3 Telsense telecables to Wiltshire Council for fitting after adoption.
- Without receipt of telecable's the site shall not be deemed acceptable for adoption.
- Luminaires, columns, controls, isolation units, cut-outs, fuses and all associated equipment shall be in accordance with Atkins / Wiltshire Council specification.
- For full section 278 street lighting specification refer to Atkins / Wiltshire Council documentation.
- Columns should be sited in accordance with BS 5489, and generally be installed in the footpath at the rear or in the absence of a footpath, a minimum of 1.0 metres from the kerb edge to the face of the column and within the highway to be adopted. Unless a reduction in set back distance is agreed with the local authority for shared surfaces/spaces.
- No obstruction or planting shall hinder access to the column base compartment or the light distribution from the lanterns.
- This drawing shall be read in conjunction with the Calculation Summary and all relevant architectural, structural, mechanical and electrical services information.
- The model is based on calculations on a flat ground plane. No topography, buildings or proposed levels have been built into the calculation model.
- Refer to accompanying Designers Risk Assessment for details of design risks identified.
- Do not scale from this drawing.
- All measurements are in millimetres unless stated otherwise.
- All symbols used are generic and should not be considered as true representations of size or dimensions of actual luminaires.

This Drawing is protected by Copyright. It may not be reproduced in any form or by any means for any purpose without the written consent of The Lighting Bee Ltd. Scale for planning purposes only. All Dimensions to be checked on site and verified prior to commencing heavy construction. Any discrepancies to be reported to The Lighting Bee Ltd. These drawings reflect the design to the purpose of planning design only. Not to be used for construction purposes. The Contractor shall be responsible for providing their own lighting and cabling drawings. If these drawings are used for construction purposes it is done so at the Contractor's Risk.

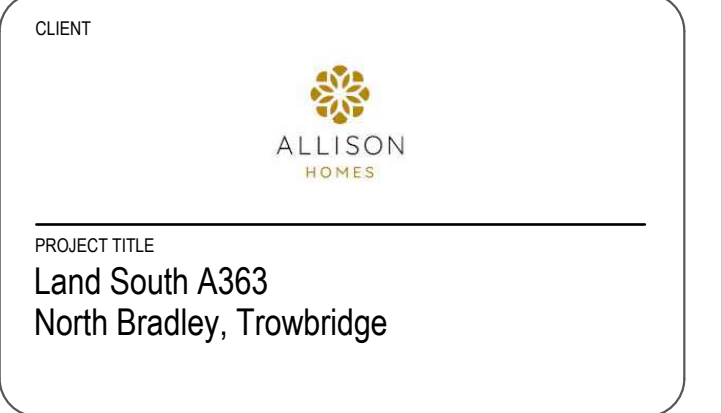
Luminaire Legend

- Proposed 8m tubular stepped steel (galvanised finish) (roof base) column with post top mounted at 0° Urbex Axis 3.3 - 64 LED Oscon square giant 480mA 3000K warm white with 5.14.6 optic (64 LED / 13.69km output)
- Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photocell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.
- Column Ref: CU Phosco - Column R2680A01/WLTS Luminaire Ref: Urbex Axis 3.3 - 64 Oscon Square Giant 480mA 3000K warm white with 5.14.6 optic (64 LED / 15.52km output)
- Control Gear Ref: Dali dimming and CMS compatible Photocell Ref: Zosdon S55 - 20 Lux switch on/off level output
- Telecable Ref: Telsense TZE1N-B-3
- Dimming Regime:
- 100% - Dusk to 20:00HRS
- 75% - 20:00HRS to 23:00HRS
- 50% - 23:00HRS to 06:00HRS
- 100% - 06:00HRS to Dawn
- Switch Regime: D19
- Dimming Code: 42 0015 0000 100
- Isolator Ref: (Single) Luty Lighting
- TR2 PPO1-ES2-LD06-06
- Internal Wiring: 3 core 2.5mm flexible arctic grade (230V)
- Service Connection: Unmetered statutory low voltage supply

TBC - Assumptions Based on - IP66 & IK10 rated, 3000K LED luminaire, mounted on a 8m fixed column, with 1m outreach bracket with 0° tilt, complete with E14.6 optic. As Urbex Schaefer Axis 3.3, 64 LED, 480mA (13.69km) E14.6 optic or equal and approved.

TBC - Assumptions Based on - IP66 & IK10 rated, 3000K LED luminaire, mounted on a 8m fixed column, with 0m outreach bracket with 0° tilt, complete with E14.6 optic. As Urbex Schaefer Axis 3.3, 64 LED, 480mA (13.69km) E14.6 optic or equal and approved.

10/21	Updated Site Plan	10/18/20	10/06/20
10/21	Preliminary Issue	10/18/20	20/03/20
Rev	Details	By / Revised	Date



DRAWING TITLE	Street Lighting Strategy - Section 278 Levels of Horizontal Illuminance Shown at Ground Level Full Output Shown (MF=1)
SCALE AT A0	1:500
DISCIPLINE	Lighting
DRAWING NUMBER	1816-LB-EX-XX-DR-E-7080-61
Project - Chapter - Zone - Level - Type - Role - NBS Code - Sequential Number	
STATUS	Preliminary
ISSUE	P02