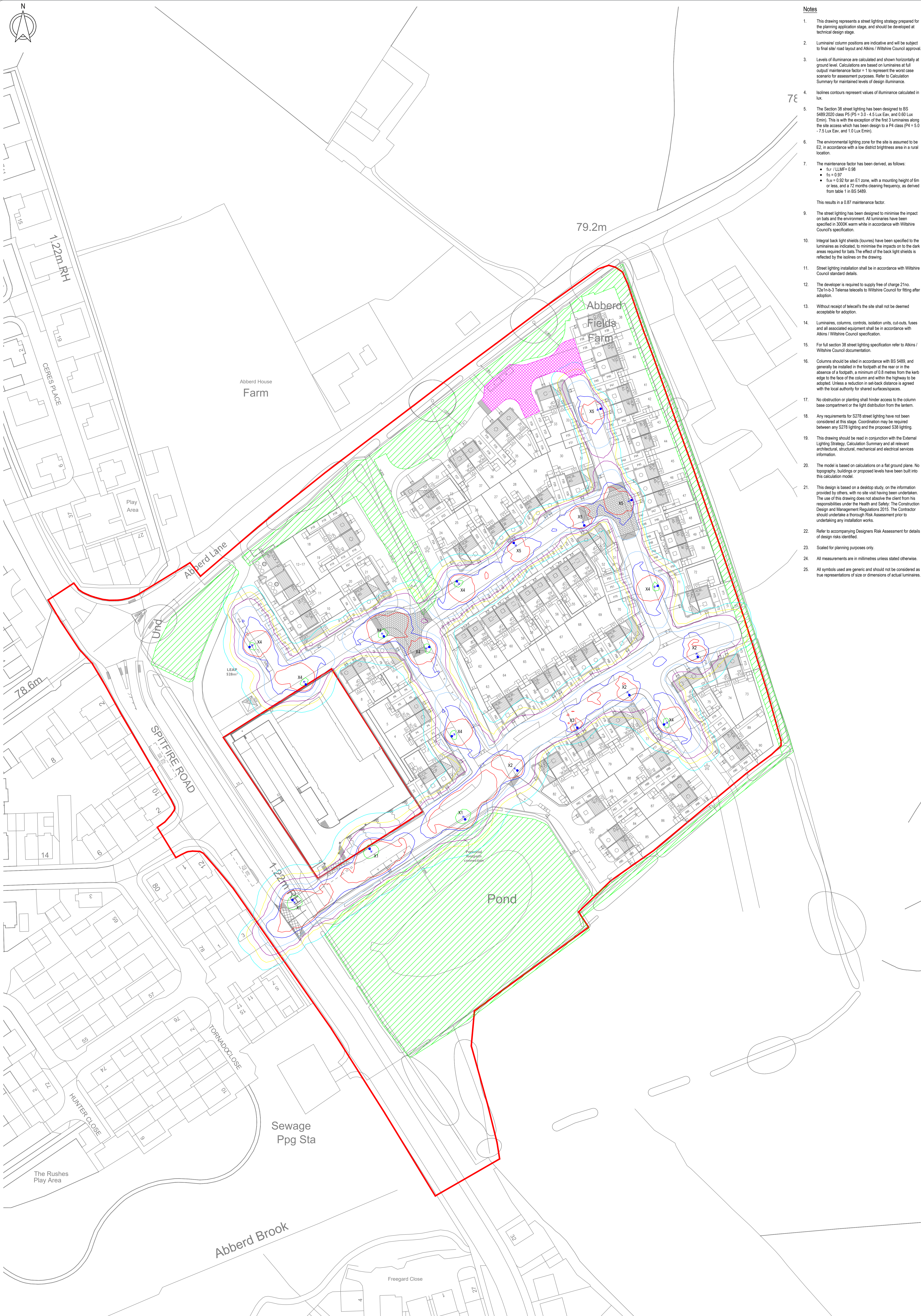
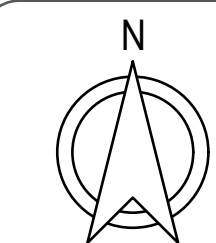




Notes

- This drawing represents a street lighting strategy prepared for the planning application stage, and should be developed at technical design stage.
- 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. Refer to Calculation Summary for maintained levels of design illuminance.
- Iso-lines contours represent values of illuminance calculated in lux.
- The Section 38 street lighting has been designed to BS 5489:2020 class P5 (P5 = 3.0 x 4.5 Lux Eav, and 0.60 Lux Emin). This is with the exception of the first 3 luminaires along the site access which has been design to a P4 class (P4 = 5.0 x 7.5 Lux Eav, and 1.0 Lux Emin).
- The environmental lighting zone for the site is assumed to be E2, in accordance with a low district brightness area in a rural location.
- The maintenance factor has been derived, as follows:
 - For LUMF-C/SB
 - fs = 0.97
 - fs = 0.92 for an E1 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.
- Integral back light shields (louvres) have been specified to the luminaires as indicated, to minimise the impacts to the dark areas required for bats. The effect of the back light shields is reflected by the isolines on the drawing.
- Street lighting installation shall be in accordance with Wiltshire Council standard details.
- The developer is required to supply free of charge 21no. T24in-B-3 Telenas telescals to Wiltshire Council for fitting after adoption.
- Without receipt of telecalc's 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 38 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 0.8 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 lantern.
- Any requirements for S278 street lighting have not been considered at this stage. Coordination may be required between any S278 lighting and the proposed S38 lighting.
- This drawing should be read in conjunction with the External Lighting Strategy, 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 this calculation model.
- This design is based on a desktop study, on the information provided by others, with no site visit having been undertaken. The use of this drawing does not absolve the client from his responsibilities under the Health and Safety: The Construction Design and Management Regulations 2015. The Contractor should undertake a Thorough Risk Assessment prior to undertaking any installation works.
- Refer to accompanying Designers Risk Assessment for details of design risks identified.
- Scaled for planning purposes only.
- 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.

S38 Luminaire Legend

Proposed 6m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Utrix Axis 3.1 - 16 LED Oscon square giant 400mA 3000K warm white with C3.6 optic (16 LED / 3.65km output). Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photobell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.

Column Ref: CU Phosco - Column R2506T01WILTS
Luminaire Ref: Utrix Axis 3.1 - 16 Oscon Square Giant 400mA 3000K warm white with C3.6 optic (16 LED / 3.65km output).
Control Gear Ref: Dali dimming and CMS compatible Photobell Ref: Zodon S58 - 20 Lux switch on/off level output
Telecalc Ref: Telenas-T2EIN-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) Lucy Lighting
TR2-PP20-ER2-LD06-06
Internal Wiring: 3 core 2.5mm flexible arctic grade (230V)
Service Connection: Unmetered statutory low voltage supply

Proposed 6m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Utrix Axis 3.1 - 8 LED Oscon square giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output). Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photobell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.

Column Ref: CU Phosco - Column R2506T01WILTS
Luminaire Ref: Utrix Axis 3.1 - 8 Oscon Square Giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output).
Control Gear Ref: Dali dimming and CMS compatible Photobell Ref: Zodon S58 - 20 Lux switch on/off level output
Telecalc Ref: Telenas-T2EIN-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) Lucy Lighting
TR2-PP20-ER2-LD06-06
Internal Wiring: 3 core 2.5mm flexible arctic grade (230V)
Service Connection: Unmetered statutory low voltage supply

Proposed 6m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Utrix Axis 3.1 - 8 LED Oscon square giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output). Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photobell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.

Column Ref: CU Phosco - Column R2506T01WILTS
Luminaire Ref: Utrix Axis 3.1 - 8 Oscon Square Giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output).
Control Gear Ref: Dali dimming and CMS compatible Photobell Ref: Zodon S58 - 20 Lux switch on/off level output
Telecalc Ref: Telenas-T2EIN-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) Lucy Lighting
TR2-PP20-ER2-LD06-06
Internal Wiring: 3 core 2.5mm flexible arctic grade (230V)
Service Connection: Unmetered statutory low voltage supply

Proposed 5m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Utrix Axis 3.1 - 8 LED Oscon square giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output). Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photobell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.

Column Ref: CU Phosco - Column R2506T01WILTS
Luminaire Ref: Utrix Axis 3.1 - 8 Oscon Square Giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output).
Control Gear Ref: Dali dimming and CMS compatible Photobell Ref: Zodon S58 - 20 Lux switch on/off level output
Telecalc Ref: Telenas-T2EIN-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) Lucy Lighting
TR2-PP20-ER2-LD06-06
Internal Wiring: 3 core 2.5mm flexible arctic grade (230V)
Service Connection: Unmetered statutory low voltage supply

Legend

- Dark corridor - level of illuminance to be <0.5 Lux
- Area of section 38 street lighting not compliant with adoptable standards due to ecological dark corridors
- Application Boundary

Iso-line Legend

- 10 Lux
- 5 Lux
- 4 Lux
- 2 Lux
- 1 Lux
- 0.5 Lux
- 0.2 Lux

PD4	Updated Site Plan	19/08	31/03/25
PD2	Updated Site Plan	19/08	19/12/25
PD2	Updated Site Plan	19/08	28/11/25
PD1	Preliminary Issue	19/08	03/11/25
Rev	Details	By / Reviewed	Date



CLIENT
Spitfire Road
Calne

DRAWING TITLE
Street Lighting Strategy - Section 38
Levels of Horizontal Illuminance Shown at Ground Level
Full Output Shown (MF=1)

SCALE AT
1:500

DISCIPLINE
Lighting

DRAWING NUMBER
1775-LB-EX-XX-DR-E-7080-41

Project - Output - Zone - Level - Type - Role - NBS class - Sequential Number

STATUS
Preliminary

ISSUE
P04

