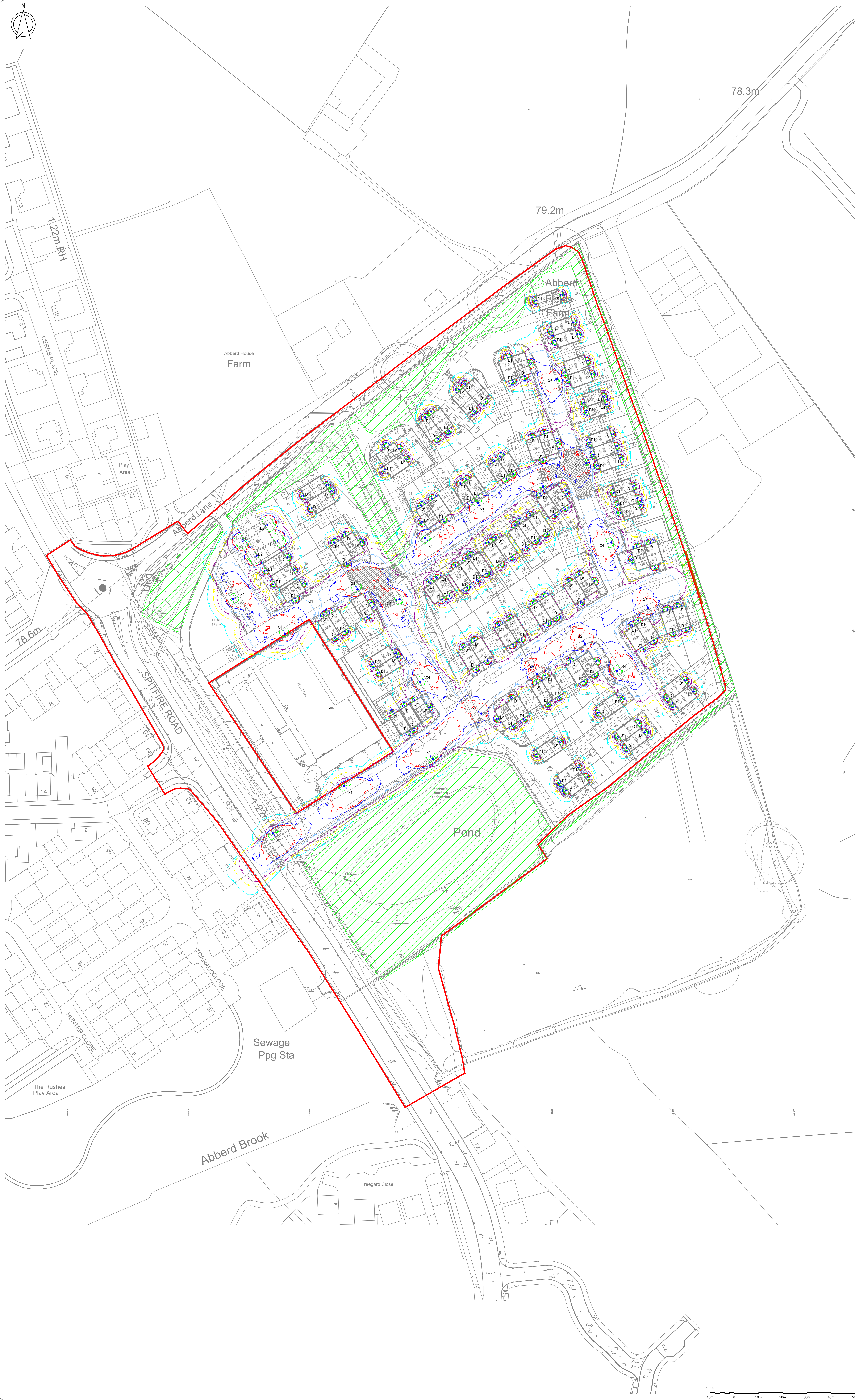




This Drawing is protected by Copyright. It may not be reproduced in any form or by any means for any purpose without the written consent of The Lighting Bee Ltd. Scale for planning purposes only. All dimensions to be checked on site and verified prior to commencing works. Manufacture. Any discrepancies to be reported to The Lighting Bee Ltd. These drawings reflect the layout for the purposes of planning stage design only and are not to be used for construction. The Contractor shall be responsible for obtaining the necessary planning and construction stage design and for ensuring that the drawings are used for construction purposes and are done so as the Contractor's Risk.

S38 Luminaire Legend

- X1 IP66 & IK10 rated, 3000K LED luminaire, mounted on a 6m fixed column, post top mounted with 0° tilt, complete with C3.1 optic. As Ultraschneider Axis 3.1, 16 LED, 460mA (3.65km) C3.6 optic or equal and approved.
- X2 IP66 & IK10 rated, 3000K LED luminaire, mounted on a 6m fixed column, post top mounted with 0° tilt, complete with C2.1 optic. As Ultraschneider Axis 3.1, 8 LED, 540mA (2.10km) C2.1 optic or equal and approved.
- X3 IP66 & IK10 rated, 3000K LED luminaire, mounted on a 6m fixed column, post top mounted with 0° tilt, complete with C2.1 optic and integral rear louvre. As Ultraschneider Axis 3.1, 8 LED, 540mA (2.10km) C2.1 optic with integral rear louvre or equal and approved.
- X4 IP66 & IK10 rated, 3000K LED luminaire, mounted on a 6m fixed column, post top mounted with 0° tilt, complete with C2.1 optic. As Ultraschneider Axis 3.1, 8 LED, 540mA (2.10km) C2.1 optic or equal and approved.
- X5 IP66 & IK10 rated, 3000K LED luminaire, mounted on a 6m fixed column, post top mounted with 0° tilt, complete with C2.1 optic and integral rear louvre. As Ultraschneider Axis 3.1, 8 LED, 540mA (2.10km) C2.1 optic with integral rear louvre or equal and approved.

Private Luminaire Legend

- D1 IP44 rated, downward directional wall luminaire, mounted at 1.8m AFFL with integrated PIR movement sensor. As Green Lighting PIR Wall Light GL-203BLK or equal and approved. Fitted with a GU10 lamp holder. Developer to provide an LED 2700K (35lm / 5.5W) lamp to be installed.
- D2 IP65 & IK10 rated, 2700K LED downward directional wall mounted luminaire, mounted at 2.5m AFFL, complete with flood optic. As Knipfeler Lighting Quanto 2.0, LED, 250mA (765lm / 7.5W) flood optic or equal and approved.

- (Photometric data for calculation purposes is based on the bare lamps, as photometric data for the entire luminaires are not available.)
- Legend**
- Ecological Dark Corridor
 - Application Boundary
 - Minimum 2.0m high solid fencing to be provided

Isoline Legend

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

Notes

- This drawing is provided for planning purposes to show the external lighting strategy, and should be developed at technical design stage.
- Luminaire positions are indicative and will be subject to final site layout.
- Levels of illuminance are calculated and shown at ground level. Calculations are based on luminaires at full output/ maintenance factor = 1 to represent the worst case scenario for assessment purposes.
- The model is based on calculations on a flat ground plane. No topography or proposed levels have been built into the calculation model. Proposed acoustic fencing to the end of the road along the northern boundary has been included in the lighting calculation model.
- Isoline contours represent values of illuminance calculated in lux.
- The private lighting design has been provided in accordance with the Clients requirements, instruction and risk assessment. The lighting provided is intended to aid in wayfinding only - and not to provide task illuminance.
- Emergency lighting design to be provided at the technical design stage, if required.
- Lighting has been specified in accordance with the recommendations within the Institute of Lighting Professionals (IPL) and Best Conservation Trust (BCT) (2023) Guidance Note (BCT 23) Bats and Artificial Lighting in the UK.
- 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 proposed lighting has been designed to the parameters of an E2 zone, in accordance with the IPL Guidance Note for the Reduction of Obtrusive Light (EN 01).
- All private luminaires have been specified in 2700K warm white to minimise the impact on bats.
- All lighting proposed will be downward directional with 0° upward light output.
- Integral back light shields (louvers) have been specified to the luminaires as indicated, to minimise the impacts on to the dark areas required for bats. The effect of the back light shields is reflected by the isolines on the drawing.
- All building mounted (D1) luminaires to operate via an integral PIR motion sensors activated on a short 1 minute timer. All building mounted (D2) luminaires to operate via standalone PIR motion sensors activated on a short 1 minute timer.
- Wiring schematics and full details of equipment locations to be provided at the technical design stage.
- No obstruction or planting shall hinder access to the column base compartment or the light distribution from any luminaire/ lantern.
- This drawing should be read in conjunction with the Street Lighting Strategy, Calculation Summary and all relevant architectural, structural, mechanical and electrical services information.
- 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.

PSD	Updated Site Plan	19/10/20	21/06/20
PSD	Updated Site Plan	19/10/20	21/03/20
PSD	Updated Site Plan	19/10/20	19/12/20
PSD	Updated Site Plan	19/10/20	19/11/20
PSD	Preliminary Issue	19/10/20	19/11/20
Rev	Details	By / Reviewed	Date

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CLIENT
Allison Homes

DRAWING TITLE
**External Lighting Strategy
Levels of Horizontal Illuminance Shown at
Ground Level from External Lighting Only
Full Output Shown (MF=1)**

SCALE AT
1:500

DISCIPLINE
Lighting

DRAWING NUMBER
1775-LB-EX-XX-DR-E-7080-21

Project / Discipline / Zone / Level / Type / Role / NBS class / Sequential Number
Preliminary

ISSUE
P05