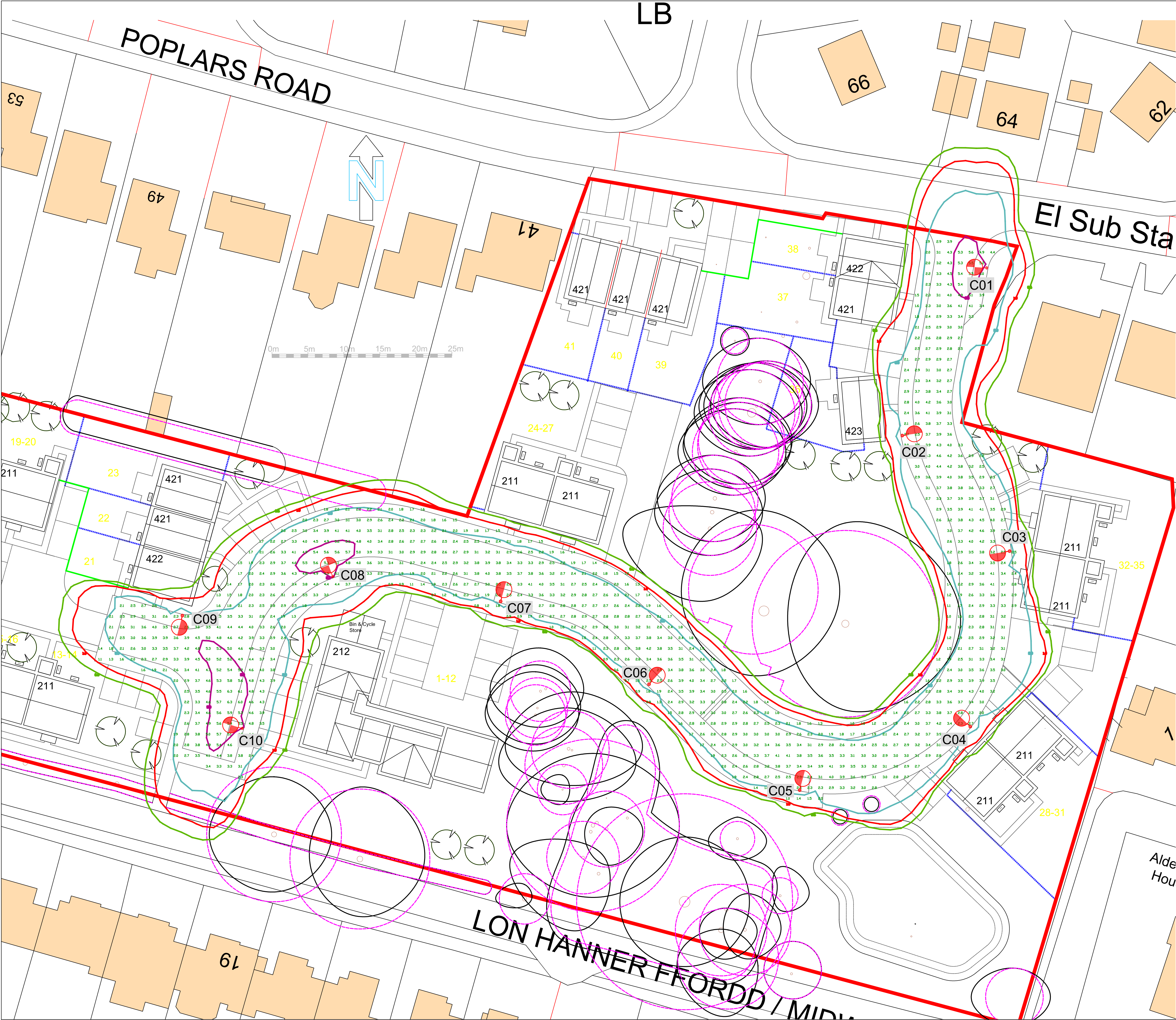




KEY TO LUMINAIRE SYMBOLS - PROPOSED ADOPTABLE

- Type "A1"**
Proposed new adoptable LED luminaire mounted post top on a 5m conical aluminium column with thermoplastic root protection at 0° tilt.
Lantern: Philips/Signify LumiStreet Gen2 Micro 13.8W c/w 2700K (very warm white) LED. With a DALI dimming enabled driver, 7-pin NEMA socket and "DW50" optic.
Flux: 1.75 klm
Philips/Signify ref: BGP291 4S_T25_LED18-CLO-727_DW50_FG
- Type "B1"**
Proposed new adoptable LED luminaire mounted post top on a 5m conical aluminium column with thermoplastic root protection at 0° tilt.
Lantern: Philips/Signify LumiStreet Gen2 Micro 13.8W c/w 2700K (very warm white) LED. With a DALI dimming enabled driver, 7-pin NEMA socket, "DW50" optic and the manufacturers back light shield 1. Flux: 1.75 klm
Philips/Signify ref: BGP291 4S_T25_LED18-CLO-727_DW50_BL1_FG

KEY TO OTHER SYMBOLS

- C01** Column reference number (Proposed new lighting) - Design purposes only, see notes
- Site boundary

DESIGN COMMENTARY

Brief
This drawing is intended for planning purposes. It shows the basic equipment specifications and the design levels achieved by the proposed street lighting scheme for review by Monmouthshire County Council. The development is accessed via Poplars Road, at the northern boundary of the site. The lighting design for the road has not been incorporated into the lighting design for this phase.

Design levels
BS EN 13201-2 2015
Subsidiary road: P5 (Eav 3.00 ~ 4.50 lux, Emin 0.60lux)
Lighting class P5 has been selected in accordance with Table A.5 of BS 5489-1:2020, based on the following design considerations:
-Environmental Zone: E2
-Assumed road speed: 20-30 mph
-Traffic flow: Quiet, based on the size and residential nature of the development
-Road use: The subsidiary road provides access to dwellings only

Maintenance factor calculation
A maintenance factor of 0.80 is applied to all lighting in this calculation based on:
LFF: 0.90 as per Signify specification
LSF: 0.97 assumed specification
LMF: 0.92 as per Table C1 of BS 5489-1 2020

Ecology
An Ecological Impact Assessment was provided by the client's ecology team, which identified that, without appropriate mitigation, artificial lighting associated with the development has the potential to disturb foraging and commuting bats, as well as other nocturnal species, particularly within the retained vegetation and around the trees located in the centre of the development. To minimise the impact of artificial lighting on these sensitive areas, a light spill assessment has been undertaken. The associated light spill drawing demonstrates the combined effect of all proposed on-site external lighting sources under a worst-case scenario and confirms that appropriate dark corridors are maintained through and around the identified ecologically sensitive areas. Refer to drawing P26107-DRG-PL-02 for the associated light spill assessment.

NOTES

- No element of this drawing shall be purchased or constructed until approval is granted by the overseeing authority. All works and purchased prior to this are at the developer's risk
- This drawing must be printed in colour
- All dimensions are in metres unless specified otherwise

CALCULATION RESULTS

REF: P26107-LRA-PL-C01-V1
Subsidiary Road (P5)
Result - Horizontal Illuminance (lux)
Eav= 3.00
Emin= 0.63
Emin/Eav= 0.10
Emin/Eav= 0.21
Emin/Eav= 2.10

KEY TO ISOLUX CONTOURS

- 0.60 LUX —
- 1.00 LUX —
- 2.00 LUX —
- 5.00 LUX —

P01 Original for review		MVO	DPL	22.09.26
Rev	DESCRIPTION	DRWN	CHK	DATE
DPL LIGHTING Grove House Lutyens Close Chineham Court Basingstoke Hampshire RG24 8AG T 01256 578030 E enquiries@dpl-lighting.co.uk W www.dpl-lighting.co.uk				
CLIENT/CUSTOMER				
Amity Planning				
PROJECT				
Midway Lane, Abergavenny				
TITLE				
Adoptable Street Lighting Calculation				
DRAWN	SCALE	DATE		
MVO	1: 250 @A1	21.09.2026		
DRAWING NUMBER		ISSUE		
P26107-DRG-PL-01		P01		
DO NOT SCALE FROM THIS DRAWING				
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