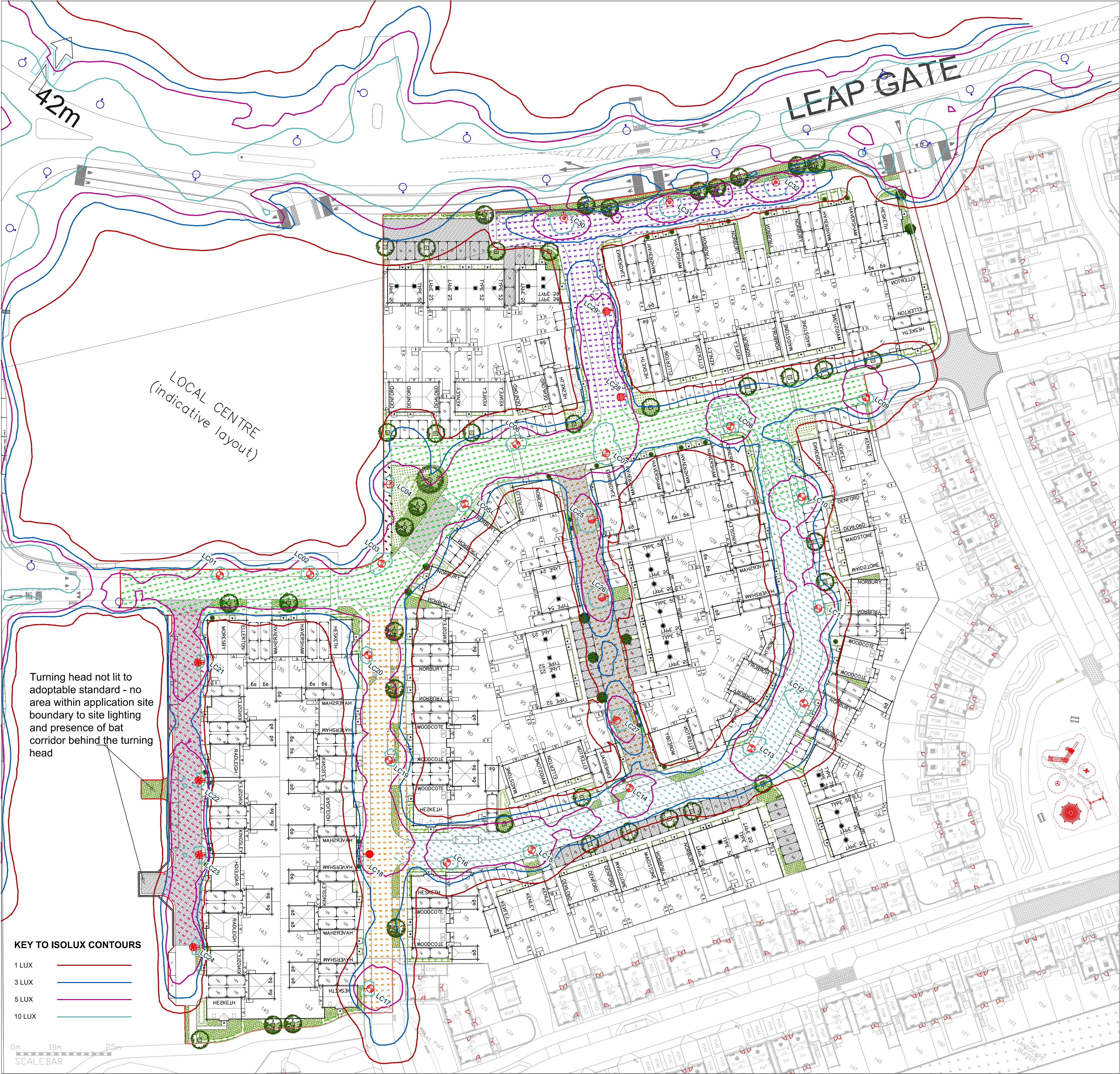




KEY TO LUMINAIRE SYMBOLS - PROPOSED ADOPTABLE

- Type "A1"
Proposed new adoptable LED luminaire mounted post top on 6m fixed steel column at 0° tilt
Lantern: Urbis Axia 3.1 23W c/w 16no 3000K (warm white) LEDs driven at 460mA through a DALI dimming enabled driver, 7-Pin
NEMA socket & type "52673" optic
Elexon charge code: 42 0023 0000 100
Flux: 3.65klm
Wiltshire ref: C3.6-3K
- Type "A2"
Full specification the same as type "A1", but lantern shall be installed with the manufacturer's rear louvers
Wiltshire ref: C3.6-3K-BL
- Type "A3"
Full specification the same as type "A1", but lantern shall be mounted on a 6m mid-hinged raise and lower column at 0° (Arrow on symbol denotes the direction of lowering for maintenance)
- Type "B1"
Proposed new adoptable LED luminaire mounted post top on 5m fixed steel column at 0° tilt
Lantern: Urbis Axia 3.1 15W c/w 8no 3000K (warm white) LEDs driven at 540mA through a DALI dimming enabled driver, 7-Pin
NEMA socket & type "52663" optic
Elexon charge code: 42 0015 0000 100
Flux: 2.10klm
Wiltshire ref: B2.1-3K
- Type "B1"
Full specification the same as type "B1", but lantern shall be installed with the manufacturer's rear louvers
Wiltshire ref: B2.1-3K-BL

KEY TO OTHER SYMBOLS

- Approved section 278 street lighting - shown for tie-in purposes only
- Application site boundary
- 1mx1m adoptable pad, built to Wiltshire CC specification

DESIGN COMMENTARY

- All design elements are to Wiltshire CC specification
- A lighting class of "P4" from BS:EN13201-2 2015 has been selected as per Wiltshire CC specification for residential roads in an "E3" environmental zone.
P4: Eav: 5 lux - 7.5 lux, Emin: 1 lux
class "P5" is selected for the on-site segregated footpath off the spine road
P5: Eav: 3 lux - 4.5 lux, Emin: 0.60 lux
- The design generally uses 6 metre columns on the main spine road running through site and 5 metre columns on narrower subsidiary roads
- The adjoining S278 street lighting on Leap Gate road and West Ashton Road is taken from drawing ref P23702 by DPL Lighting and is used for tie in purposes in this design
- All luminaires are to be programmed to the wcc residential dimming regime (D19) as follows:
75% - 20.00hrs to 23.00hrs and 50% - 23.00hrs to 6:00hrs
- Some turning head areas have not been lit to adoptable standard. due to positioning of these areas close to properties, the siting of lighting columns in these areas would produce excessive levels of obtrusive light into property windows and contribute to over-lighting of the area. these areas have been annotated on the drawing.
- The lighting design for the adjoining parcel to the north-east is yet to be completed, therefore no lighting is shown for tie-in purposes

GENERAL NOTES

- No element of this drawing is to be purchased or constructed until technical approval is granted
- This drawing must be printed in colour

CALCULATION RESULTS

REF: P25902-AD-C01-V7

Spine Road (P4)
Results - Horizontal Illuminance (lux)
Eav= 6.24
Emin= 1.22
Emax= 13.99
Emin/Emax= 0.09
Emin/Eav= 0.20
Emax/Eav= 2.24

Grid 2
Results - Horizontal Illuminance (lux)
Eav= 5.64
Emin= 2.25
Emax= 11.38
Emin/Emax= 0.20
Emin/Eav= 0.40
Emax/Eav= 2.02

Grid 3 (P4)
Results - Horizontal Illuminance (lux)
Eav= 6.01
Emin= 1.46
Emax= 16.45
Emin/Emax= 0.09
Emin/Eav= 0.24
Emax/Eav= 2.74

Grid 4 (P4)
Results - Horizontal Illuminance (lux)
Eav= 5.89
Emin= 1.53
Emax= 19.60
Emin/Emax= 0.08
Emin/Eav= 0.26
Emax/Eav= 3.33

Grid 5 (P4)
Results - Horizontal Illuminance (lux)
Eav= 5.24
Emin= 1.09
Emax= 19.08
Emin/Emax= 0.06
Emin/Eav= 0.21
Emax/Eav= 3.64

Grid 6 (P4)
Results - Horizontal Illuminance (lux)
Eav= 6.45
Emin= 1.40
Emax= 11.73
Emin/Emax= 0.12
Emin/Eav= 0.22
Emax/Eav= 1.82

Footpath
Results - Horizontal Illuminance (lux)
Eav= 6.91
Emin= 3.34
Emax= 11.23
Emin/Emax= 0.30
Emin/Eav= 0.48
Emax/Eav= 1.63

P10	LC14 Relocated to opposite side of road to enable more tree planting	SDL		09.03.36
P09	New layout - LC19 shifted down to accommodate VP space	SDL		06.03.26
P08	New road line boundary	SDL		29.01.26
P07	LC01, LC08 and LC09 relocated	SDL		28.01.26
P06	New landscaping layer added	SDL	DPL	22.01.26
P05	LC04 moved to FPP, now R&L, LC24 moved to adoptable off road, New layout	SDL	DPL	15.01.26
P04	New layout, Additional areas lit	SDL	DPL	13.01.26
P03	New layout (Rev 2), Black shield street to LC16	SDL	DPL	05.09.25
P02	New layout (Rev 5), Adopt pad added on LC17, LC05 moved to play boundary	SDL	DPL	29.08.25
P01	Original Issue	SDL	DPL	13.08.25
Rev.	DESCRIPTION	DRWN	CHK	DATE

DPL LIGHTING

Grove House | Lutylens Close | Chineham Court |
Basingstoke | Hampshire | RG24 8AG
T 01256 578030 | E enquiries@dpl-lighting.co.uk | W www.dpl-lighting.co.uk

CLIENT



PROJECT

ASHTON PARK
TROWBRIDGE

TITLE
ADOPTABLE STREET LIGHTING
CALCULATION SUMMARY

DRAWN

SCALE 1:500 @ A1

DATE 13.08.25

DRAWING NUMBER P25902-AD-01

ISSUE P10

DO NOT SCALE FROM THIS DRAWING

© THIS DRAWING IS THE COPYRIGHT OF DPL LIGHTING LTD
It shall not be used or reproduced in any way without their prior written consent