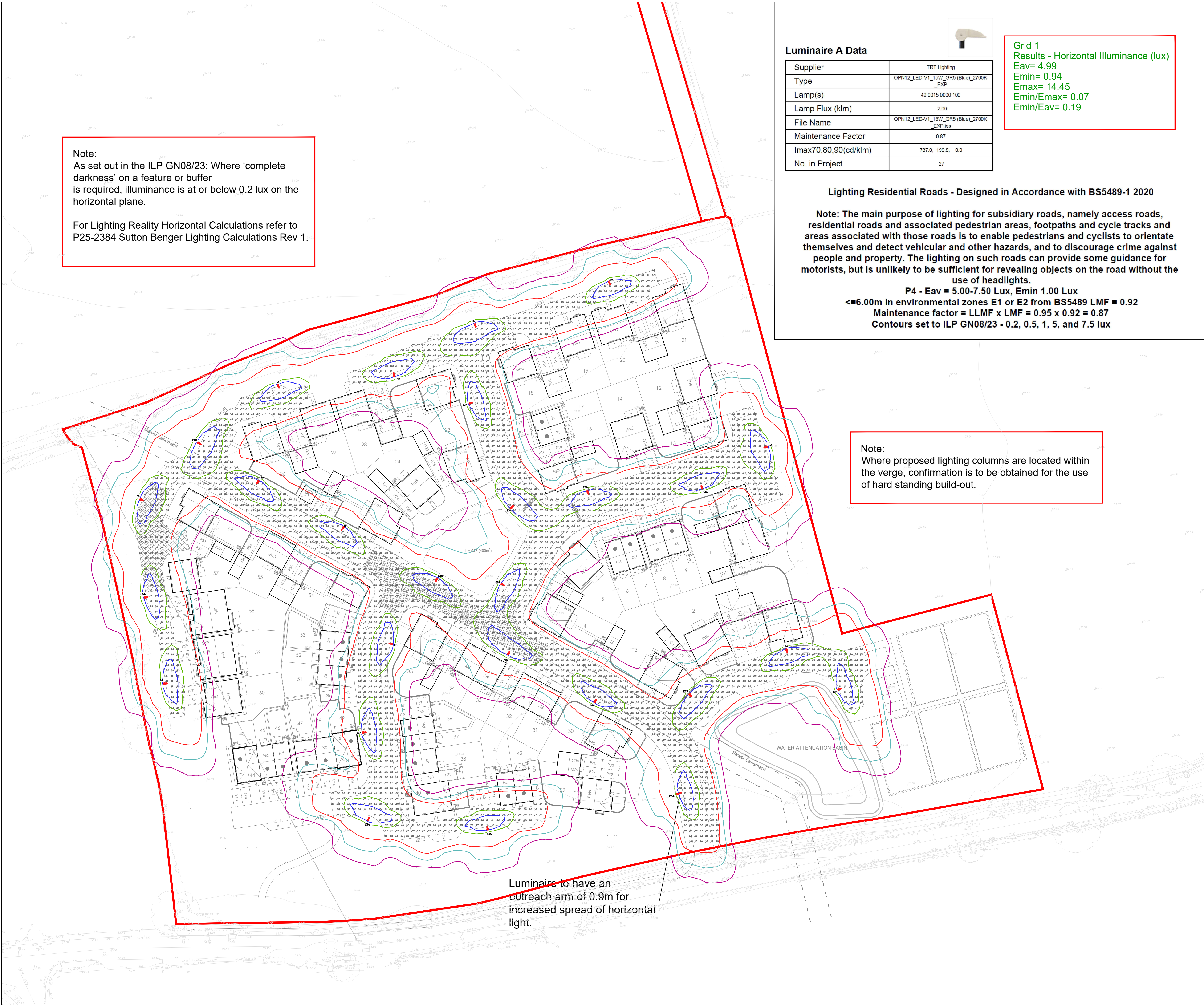




Note:
As set out in the ILP GN08/23; Where 'complete darkness' on a feature or buffer is required, illuminance is at or below 0.2 lux on the horizontal plane.

For Lighting Reality Horizontal Calculations refer to P25-2384 Sutton Benger Lighting Calculations Rev 1.

Luminaire A Data

Supplier	TRT Lighting
Type	OPN12_LED-V1_15W_GR5 (Blue)_2700K_EXP
Lamp(s)	42 0015 0000 100
Lamp Flux (klm)	2.00
File Name	OPN12_LED-V1_15W_GR5 (Blue)_2700K_EXP.ies
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	787.0, 199.8, 0.0
No. in Project	27



Grid 1
Results - Horizontal Illuminance (lux)
Eav= 4.99
Emin= 0.94
Emax= 14.45
Emin/Emax= 0.07
Emin/Eav= 0.19

Lighting Residential Roads - Designed in Accordance with BS5489-1 2020

Note: The main purpose of lighting for subsidiary roads, namely access roads, residential roads and associated pedestrian areas, footpaths and cycle tracks and areas associated with those roads is to enable pedestrians and cyclists to orientate themselves and detect vehicular and other hazards, and to discourage crime against people and property. The lighting on such roads can provide some guidance for motorists, but is unlikely to be sufficient for revealing objects on the road without the use of headlights.

P4 - Eav = 5.00-7.50 Lux, Emin 1.00 Lux
≤6.00m in environmental zones E1 or E2 from BS5489 LMF = 0.92
Maintenance factor = LLMF x LMF = 0.95 x 0.92 = 0.87
Contours set to ILP GN08/23 - 0.2, 0.5, 1, 5, and 7.5 lux

Note:
Where proposed lighting columns are located within the verge, confirmation is to be obtained for the use of hard standing build-out.

N

1:500

0 12.5m 25m

Notes

1.

This drawing has been produced by Pegasus Group for the client and should not be used for anything outside of its intended purpose. Pegasus Group accept no liability for the misuse of this drawing.

2.

The Contractor is to check all information provided prior to commencing works, and seek clarification from the Engineer in respect to any ambiguities found.

3.

Lighting designed to achieve a P4 Lighting Class.

4.

Cabling shall be determined prior to construction.

5.

All columns shall be fed by private metered supply.

6.

The contractor must comply with CDM Regulations 2015.

7.

Contractors disposal must comply with WEE Directive and COSHH Regulations

8.

When there are known services in the vicinity of excavations, the contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavations with mechanical excavators.

9.

All columns and brackets shall be manufactured, supplied, and installed in accordance with the requirements of BSEN40 with a minimum design life of 25 years.

10.

Pegasus do not take any liability for the misuse of this drawing.

Key:

Application Boundary

Proposed Luminaire A
TRT OPN12_LED_15w GR5 2700k with zero tilt Lamp to be mounted on 6m columns with minimum 0.5m setback from kerb edge
Lamp 42 0015 0000 100 MF 0.87

Proposed Contours to ILP GN08/23

0.2 Lux

0.5 Lux

1 Lux

5 Lux

7.5 Lux

P2	25.10.2025	Drawing amended to Clients comments	JG	AT	SD
P1	03.10.2025	First Issue	JG	AT	SD
REV	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED

Adoptable Street Lighting Layout

Land at High Street
Sutton Benger

CLIENT: Charles Church

DATE: 29.10.25 SCALE: 1:500 DRAWN BY: JG CHECKED BY: AT APPROVED BY: SD

DRAWING NUMBER: P25-2384-PEG-XX-XX-DR-C-1300-P2 PG OFFICE / TEAM: BIR/IN

PEGASUS REF No: P25-2384 DRAWING STATUS: PLANNING