

7695: Reading International Logistics Park, Reading, Berkshire

Briefing Note: Lighting Strategy Review

1. Introduction

- 1.1. Ecology Solutions was commissioned in August 2026 to review the revised Proposed External Lighting Layout NMA prepared by Engineering Services Consultancy Limited (see Appendix 1) in response to comments received from the Local Planning Authority (LPA) regarding potential light spill onto retained habitats and ecological features at Reading International Logistics Park in Reading, Berkshire.
- 1.2. The LPA specifically requested further information to demonstrate the relationship between the proposed lighting and the retained woodland, trees and watercourse, as well as the proposed ecological enhancement features. The revised drawing provides additional isolux information around the site perimeter, together with details of the proposed luminaires and measures incorporated to minimise light spill.
- 1.3. This note considers the revised lighting proposals against current best practice guidance, specifically Bats and Artificial Lighting at Night (GN08/23)¹, produced jointly by the Bat Conservation Trust (BCT) and Institution of Lighting Professionals (ILP).

2. Ecological Context

- 2.1. An updated ecological walkover undertaken by Ecology Solutions on 27 May 2026 confirmed that the majority of the development area is occupied by buildings, hardstanding and construction areas of negligible ecological interest. The principal retained habitats of ecological interest comprise the broadleaved tree / wooded belt, as well as its associated watercourse, along the northern site boundary and retained trees around the site perimeter². These habitats offer suitability for foraging and commuting bats, as well as providing opportunities for birds, invertebrates and other wildlife.
- 2.2. Given this suitability, the external lighting strategy is required to be sensitively designed to minimise illumination of retained habitats, thereby maintaining their ecological functionality. Bat boxes are also proposed within the retained tree /

¹ Bat Conservation Trust and Institution of Lighting Professionals (2023). Bats and Artificial Lighting at Night. Guidance Note GN08/23.

² Ecology Solutions Ltd. (June 2026). 7695: Reading International Logistics Park, Reading, Berkshire. *Briefing Note: Site Walkover 27.05.26*.

wooded belt and are to be positioned in locations subject to limited or no artificial lighting.

- 2.3. The revised lighting strategy has therefore been reviewed with reference to GN08/23. The guidance advocates avoidance of artificial lighting of habitats used by bats wherever practicable and, where lighting is necessary, application of the mitigation hierarchy through appropriate luminaire selection, positioning, shielding, intensity and operational controls.

3. Lighting Strategy

- 3.1. The isolux information indicates that the artificial lighting is predominantly concentrated towards the operational areas of the site, away from the retained vegetation of ecological importance and proposed ecological enhancement measures.
- 3.2. Light Emitting Diodes (LEDs) will be exclusively used, giving a more directional beam of light than more traditional lighting options. These are understood to be warm white LEDs, favoured by bats, albeit have a slightly higher colour temperature than outlined within the guidance (i.e. they have a colour temperature of at least 3000°K, whereas 2700K is recommended within the guidance).
- 3.3. It is also understood that, where the lighting columns are required in closer proximity to the perimeter of the site, they will be fitted with back-shields, limiting slight spill on boundary / off-site habitats of greater suitability for wildlife as far as possible.
- 3.4. Through these measures, the majority of the northern retained tree / wooded belt is not subject to any increased artificial light spill as a result of the development (i.e. is shown as zero lux on the revised Proposed External Lighting Layout NMA), with the small north-western section that does have increased light spill only subject to an increase of one to two lux. As such, it is expected that this area of retained habitat will continue to offer largely unimpeded suitability for nocturnal species, including foraging and commuting bats.
- 3.5. Additionally, given that all the proposed bat boxes are to be incorporated into the northern retained tree / wooded belt, the lighting strategy would not adversely impact the post-development suitability of the site for roosting bats.
- 3.6. Although it is acknowledged that some low-level illumination (generally between one and three lux, albeit occasionally slightly higher) extends onto and beyond parts of the eastern and western site boundaries and their associated on- and off-site retained habitats, given the wider context of the site, and especially the known existing light spill on these boundary habitats from the surrounding commercial development (i.e. the access road for the Tesco distribution centre adjacent to the west of site and the access road associated with the existing business park beyond the eastern site boundary), it is considered unlikely that the ecological functionality of the retained habitats for foraging and commuting bats would be materially impacted as a result of the development proposals.

4. Conclusions

- 4.1. Ecology Solutions was commissioned to review the revised Proposed External Lighting Layout NMA prepared by Engineering Services Consultancy Limited for Reading International Logistics Park, Reading, Berkshire, in August 2026. Said review is in response to comments received from the LPA regarding potential light spill onto retained habitats and ecological features.

- 4.2. This note considers the revised lighting proposals against current best practice guidance, specifically Bats and Artificial Lighting at Night (GN08/23), produced jointly by the BCT and ILP.
- 4.3. It is considered that the design of the lighting strategy successfully avoids, or sufficiently limits, artificial light spill on retained vegetation of ecological interest, as well as the proposed ecological enhancement features (i.e. bat boxes). As such, it is considered that the integrity of the site for nocturnal species, and specifically foraging and commuting bats, is maintained and the development is in accordance with relevant guidance.

Appendices

- Appendix 1: Proposed External Lighting Layout NMA by Engineering Services Consultancy Limited (Drawing Number: 2092-ESC-00-ZZ-DR-E-2102, Revision: P3)

Signed,

Ecology Solutions

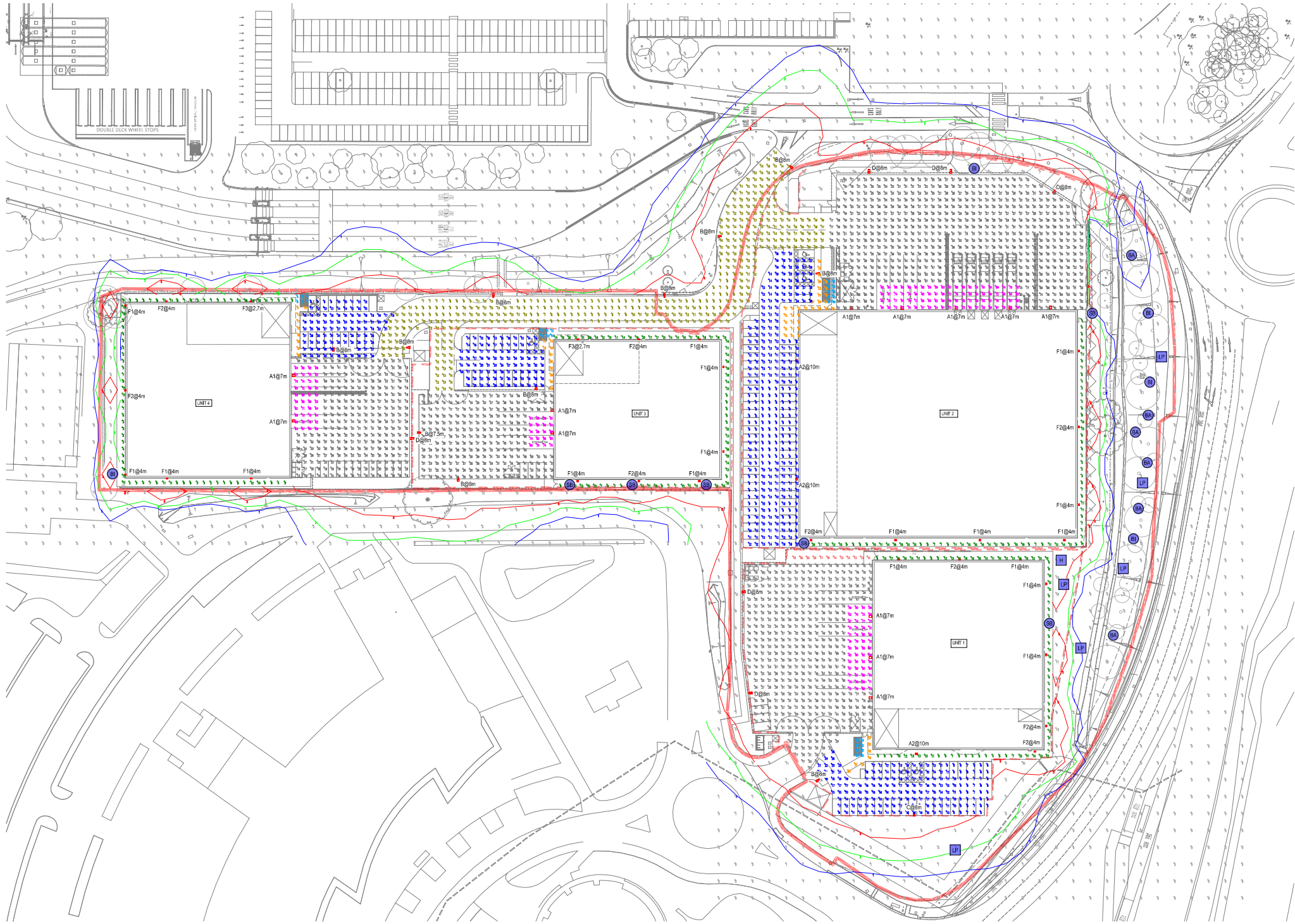
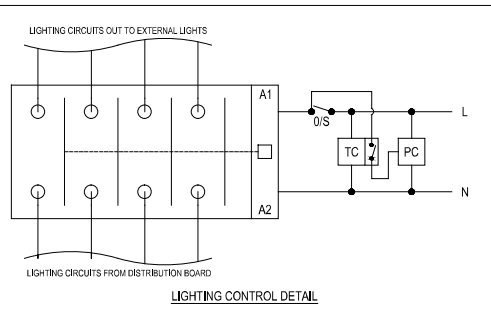
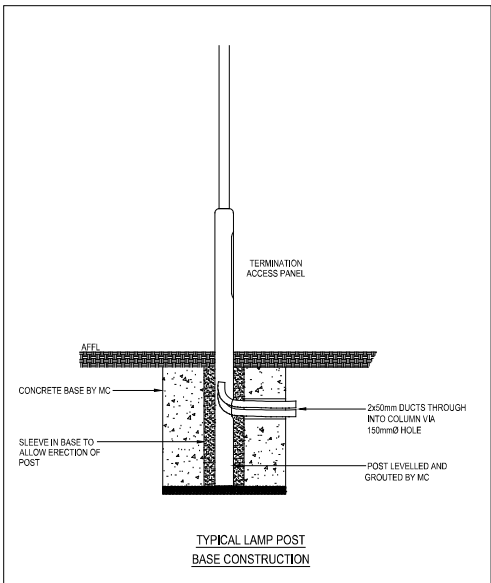
20.08.2026

APPENDICES

APPENDIX 1

Proposed External Lighting Layout NMA by
Engineering Services Consultancy Limited
(Drawing Number: 2092-ESC-00-ZZ-DR-E-2101,
Revision: P3)

Schedule								
Symbol	Label	Colour	Image	Quantity	Catalog Number	Description	Lumens Per Lamp	Wattage
	A1	 CP Metallic Silver (RAL9006)		12	DSX2.4.LA30.FWE.RAL9006.C9	D-Series 2 - Area luminaire Wall Mounted on Bracket@7m AFPL	29720	202
	B	 CS Smooth Grey (RAL7035)		11	DSX0.4.A084.YW.RAL7035.C6	D-Series 0 - Area luminaire Mounted on 8m Column	7755	56
	C	 CS Smooth Grey (RAL7035)		1	DSX0.4.LA084.RAL7035.C6/DS (X-20LED.BLS)	D-Series 0 - Area luminaire with Back Light Shield Mounted on 8m Column	6723	56
	D	 CS Smooth Grey (RAL7035)		6	DSX0.4.A134.FW.RAL7035.C6	D-Series 0 - Area luminaire with Back Light Shield Mounted on 8m Column	12790	90
	A2	 RAL7016 Anthracite Grey Matt (RAL7016)		3	DSX0.4.A116.FW.RAL7016	D-Series 0 - Area luminaire Wall Mounted on Bracket@5m AFPL	10823	75
	F1	 CP Metallic Silver (RAL9006)		16	DEW.LA014.NR.PC.RAL9006.C9	Denver Elite Wall Mounted@4m	1427	13
	F2	 RAL7016 Anthracite Grey Matt (RAL7016)		9	DEW.LA014.NR.PC.RAL7016	Denver Elite Wall Mounted@4m	1427	13
	F3	 RAL8004 Copper Brown (RAL8004)		2	DEW.LA014.NR.PC.RAL8004	Denver Elite Wall Mounted@2.7m	1427	13



THIS DRAWING IS FOR INFORMATION ONLY TO DEMONSTRATE DESIGN INTENT AND REPRESENTS THE AGREED SERVICES STRATEGY AND MINIMUM STANDARDS TO BE ACHIEVED. WHERE ADDITIONAL DETAILS HAVE BEEN SHOWN, THIS HAS BEEN PROVIDED IN ORDER TO CONVEY GREATER UNDERSTANDING OF THE CONCEPTUAL REQUIREMENTS AND SHALL NOT BE TAKEN AS A DETAILED DESIGN.

IT HAS NOT BEEN PRODUCED TO ACCURATE DESIGN CALCULATIONS AND SHALL NOT BE USED FOR INSTALLATION PURPOSES.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE DESIGN OF THE INSTALLATION SERVICES IN ACCORDANCE WITH THE DESIGN AND BUILD CONTRACT. PLANT DESIGN IS INDICATIVE AND THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE DETAILED DESIGN OF ALL PLANT AND EQUIPMENT.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL CONTRACT DOCUMENTS, PROJECT SPECIFICATIONS AND DRAWINGS.



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