Dimensions are not to be scaled from this drawing.

Kingfisher Lighting

Part of the LUCECO group of companies

BREEAM New Construction 2018 (UK)

D32766D - Herbert Road Phases 2-4

Qty	Range	Light Source	Lamp Lumens	Circuit Watts	Lm/W	LOR	Luminaire Lumens	ULOR	Upward Lmns	RA	ART Hour Per Day	CO² Calculation for year	
												CO² (Tonnes)	Kw/hour
20	Italo 1	S05 - 700mA 2 Module	4160	41	102.72	100.0%	83200	0.0%	0	70	12	1.93	3547.80
22	Italo 1	STE-M - 525mA 2 Module	4570	40	115.70	100.0%	100540	0.0%	0	70	12	2.08	3806.22
13	Italo 1	SV - 525mA 2 Module	3290	31	106.13	100.0%	42770	0.0%	0	70	12	0.96	1765.14

Total Installation Lumens	226510.00

	0
Total ULR	0.00%

Total CO² per year (Tonnes)	4.97
Total Electrical consumption (Kw)	2.08
Total Electrical consumption per year (Kwh)	9,119.16
Average luminaire lumens per circuit Watt	108.79

Table 1 compliance	
Environmental zone	E3

Sky Glow	Target	Achieved	Status
	5.00%	0.00%	Pass

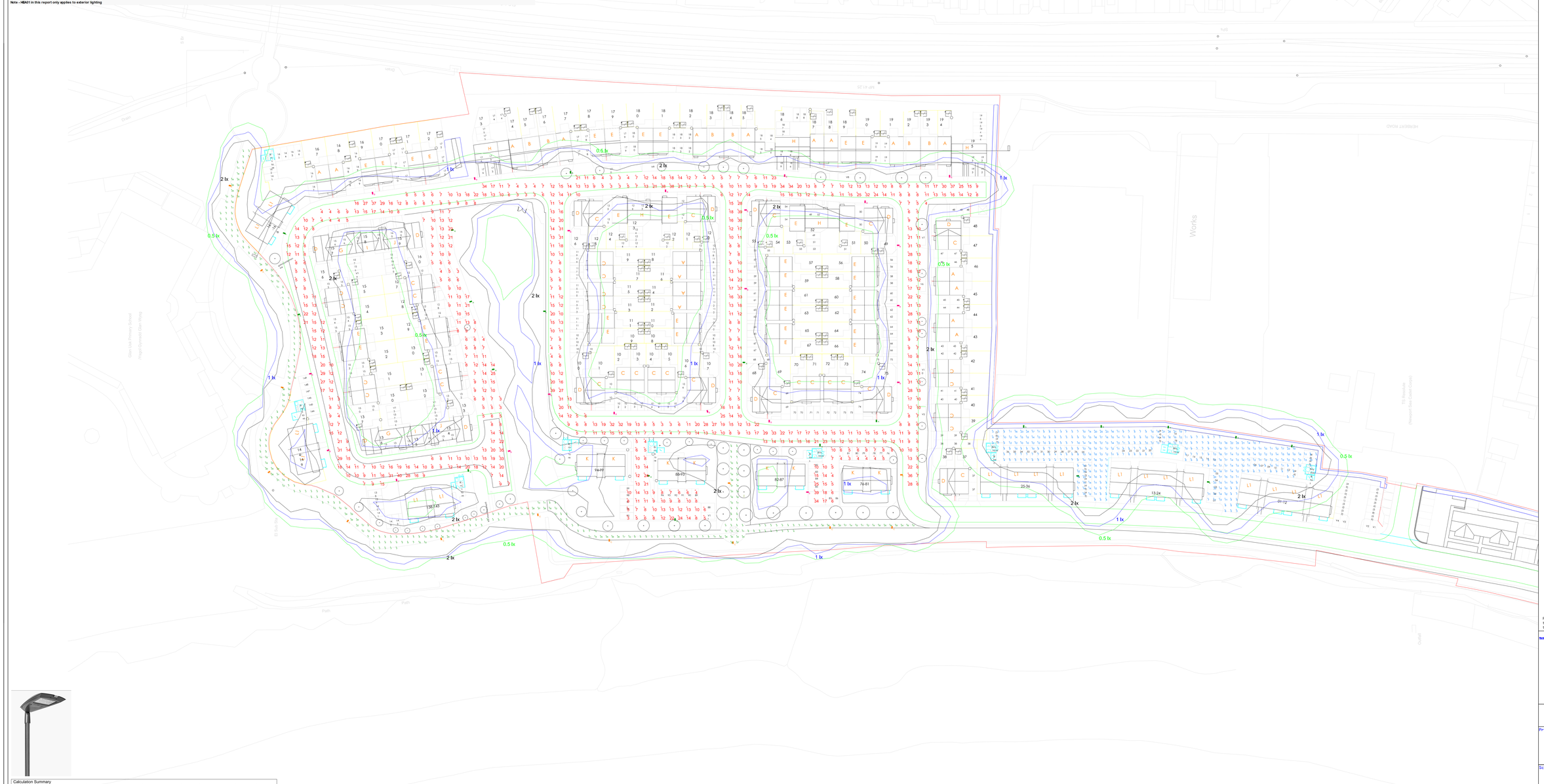
Source Intensity (candelas)				
Pre curfew	10,000	0	Pass	Note - we have not been able to calculate this as no housing is shown on the drawing
Post curfew	1,000	0	Pass	Note - we have assumed no fittings will be left on Post curfew

Light Trespass into windows (Lux)				
Pre curfew	10	0	Pass	Note - we have not been able to calculate this as no housing is shown on the drawing
Post curfew	2	0	Pass	Note - we have assumed no fittings will be left on Post curfew

Building Luminance (cd/m²)	10

Compliance Status:		
Pol 04	Reduction of night time light pollution	Pass
Ene 03	Energy efficient external lighting	Pass
Hea 01	Internal and external lighting levels	Pass

Note - HEA01 in this report only applies to exterior lighting



Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Estate Roads - Red	Illuminance	Lux	12.23	40	3	0.25	0.08
Rear Courtyard & Parking - Blue	Illuminance	Lux	10.80	26	3	0.28	0.12
Rear Road - Green	Illuminance	Lux	11.97	41	3	0.25	0.07

Luminaire Schedule					
Symbol	Qty	Label	Arrangement	LLF	Description
	20	A	SINGLE	0.900	40.5w (2 module) 700mA Italo 1 with S05 Optic column mounted at 6m.
	22	B	SINGLE	0.900	39w (2 module) 525mA Italo 1 with STE-M Optic column mounted at 6m
	13	C	SINGLE	0.900	31w (2 module) 525mA Italo 1 with SV Optic column mounted at 6m.

Revision	Date	Description	Initials

Kingfisher Lighting

For our LED lighting designs a 0.9mf has been used. If this differs from the maintenance period for this project then you must advise us accordingly

Kingfisher Lighting Ltd, Kitchen Way, Green Farm Industrial Park, Hartford, Nottinghamshire NG19 9PX
Tel 0845 415 1642 Fax 0845 415 1651
lighting@kingfisherlighting.com www.kingfisherlighting.com

Project Title

Herbert Road Phases 2-4

Scale	Project No
1:500 at A0	D32766D
Date	Drawing No
18/7/2018	D32766/JB/D

A lighting satisfactory design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, which every endeavor is made for accuracy from information provided by purchasers, the final responsibility for the suitability of the design has ever been taken. The company cannot, therefore, accept any liability or consequential loss incurred.

Lighting Designer - J Buck