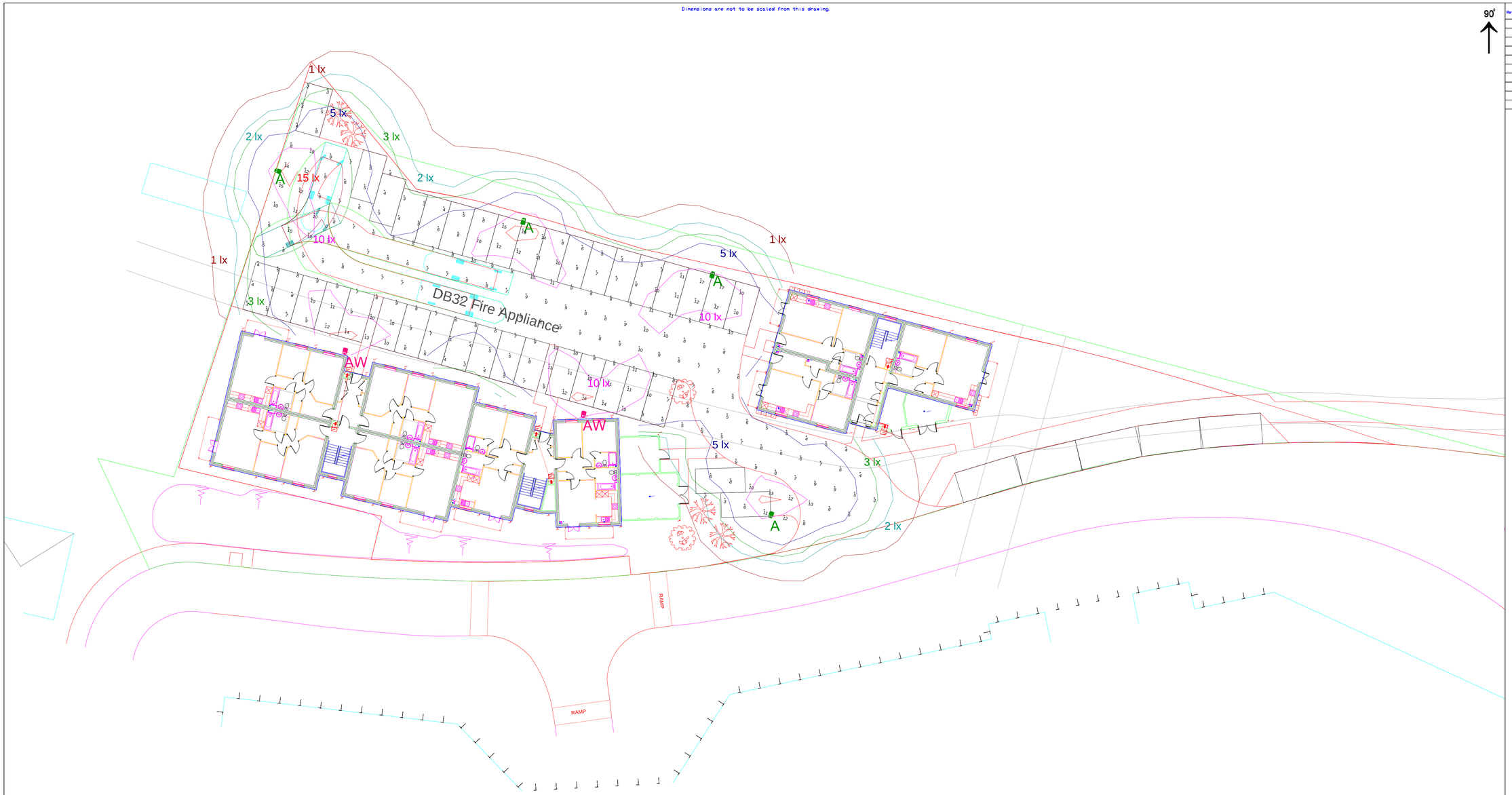
Dimensions are not to be scaled from this drawing.



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

Members Of

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ll@kingfisherlighting.com www.kingfisherlighting.com

Project Title

Chequersfield, Welwyn City Garden

Scale	Project No
1:200 at A1	D34051
Date	Drawing No
05/03/19	D34051/TF/B

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavour is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.

Lighting Designer : Tom Ford

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Car Park	Illuminance	Lux	7.92	19	2	0.25	0.11
Lower Houses Verticals_Cd_Seg1	Obtrusive Light - Cd	N.A.	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Cd_Seg10	Obtrusive Light - Cd	N.A.	3.70	19	0	0.00	0.00
Lower Houses Verticals_Cd_Seg2	Obtrusive Light - Cd	N.A.	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Cd_Seg3	Obtrusive Light - Cd	N.A.	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Cd_Seg4	Obtrusive Light - Cd	N.A.	1.09	5	0	0.00	0.00
Lower Houses Verticals_Cd_Seg5	Obtrusive Light - Cd	N.A.	1.48	8	0	0.00	0.00
Lower Houses Verticals_Cd_Seg6	Obtrusive Light - Cd	N.A.	3.89	25	0	0.00	0.00
Lower Houses Verticals_Cd_Seg7	Obtrusive Light - Cd	N.A.	3.40	16	0	0.00	0.00
Lower Houses Verticals_Cd_Seg8	Obtrusive Light - Cd	N.A.	5.14	26	0	0.00	0.00
Lower Houses Verticals_Cd_Seg9	Obtrusive Light - Cd	N.A.	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg1	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg10	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg2	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg3	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg4	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg5	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg6	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg7	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg8	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.
Lower Houses Verticals_Ill_Seg9	Obtrusive Light - Ill	Lux	0.00	0	0	N.A.	N.A.

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description
	4	A	SINGLE	0.900	21w (1 module) 700mA Italo 1 with S05 Optic column mounted at 5m.
	2	AW	SINGLE	0.900	1 x 21w (1 module) 700mA Italo 1 with S05 Optic Wall mounted at 5m.

Kingfisher Lighting

Part of the Luceco plc group of companies

BREEAM New Construction 2018 (UK)

D34051 - Chequersfield, Welwyn City Garden

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
6	Italo 1	S05 - 700mA 1 Module	2090	21	99.52	100.0%	12540	0.0%	0	70	12	0.30	551.88

Total Installation Lumens	12540.00

	0

Table 1 compliance	
Total ULR	0.00%
Environmental zone	E3
Total CO² per year (Tonnes)	0.30
Total Electrical consumption (Kw)	0.13
Total Electrical consumption per year (Kwh)	551.88
Average luminaire lumens per circuit Watt	99.52

Sky Glow	Target	Achieved	Status
	5.00%	0.00%	Pass

Source Intensity (candelas)			
Pre curfew	10,000	26	Pass
Post curfew	1,000	26	Pass

Light Trespass into windows (Lux)			
Pre curfew	10	0	Pass
Post curfew	2	0	Pass

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