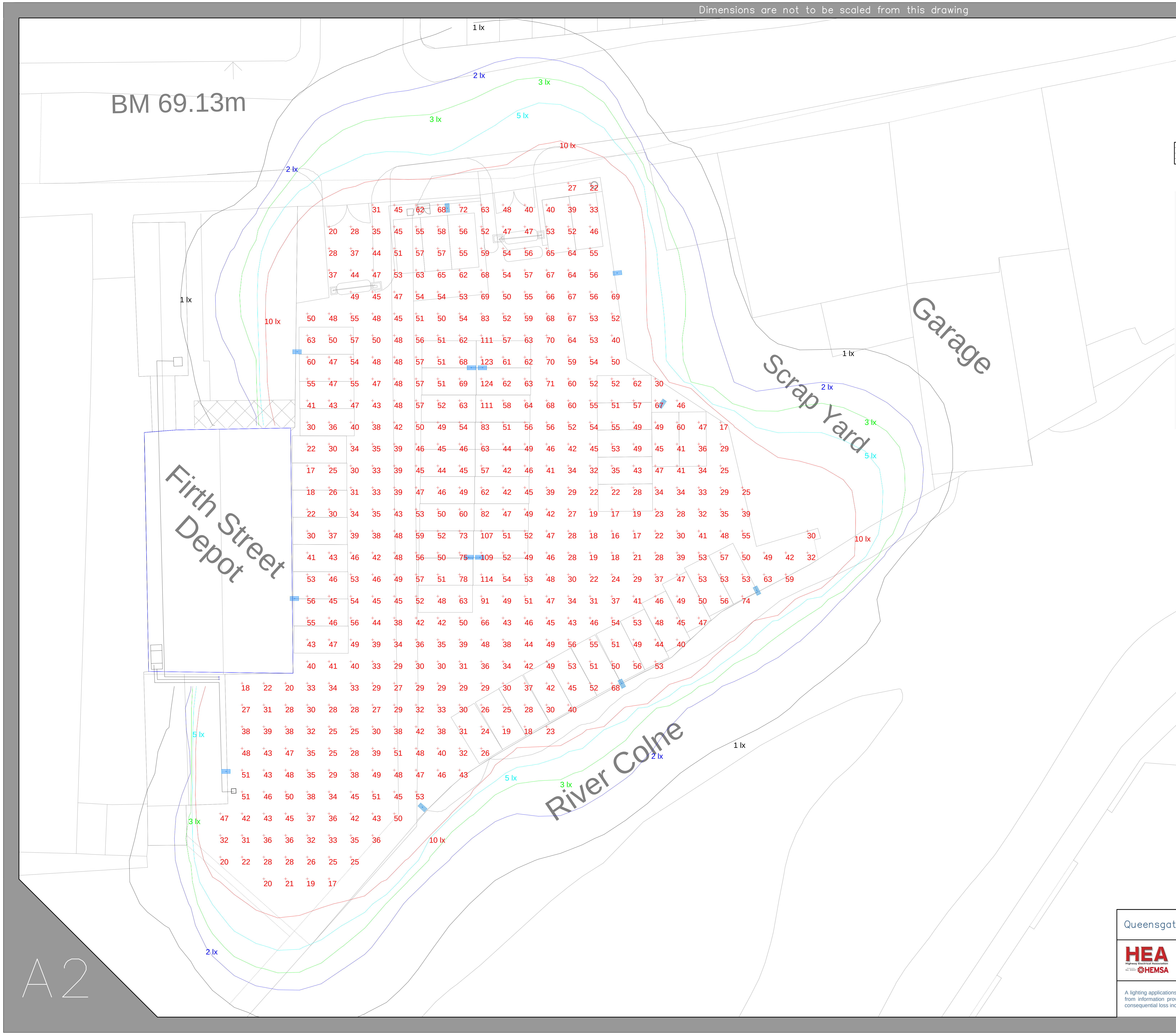
Dimensions are not to be scaled from this drawing



Kingfisher Lighting

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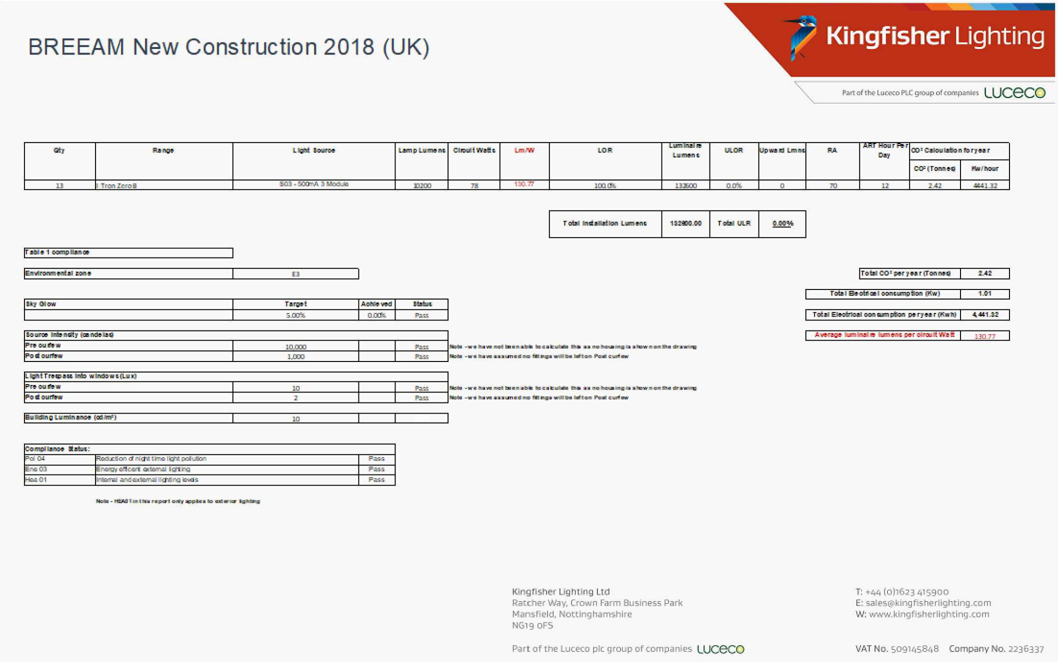
Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Description	Tag
▭	9	A	SINGLE	0.900	78w (3 Module) 500mA I-Tron Zero B 3000k with S03 optic column mounted at 6m	I-TRON Zero B 2W8 S03 3.50-3M
▭▭	2	A2	BACK-BACK	0.900	2x 78w (3 Module) 500mA I-Tron Zero B 3000k with S03 optic column mounted at 6m	I-TRON Zero B 2W8 S03 3.50-3M

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Car Park	Illuminance	Lux	45.13	124	16	0.35	0.13



BREEAM New Construction 2018 (UK)

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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
13	I Tron Zero B	S03 - 500mA 3 Module	10200	78	130.77	100.0%	132600	0.0%	0	70	12	2.42	4441.32

Total Installation Lumens	132600.00	Total ULR	0.00%

Table 1 compliance

Environmental zone	E3

Sky Glow	Target	Achieved	Status
	5.00%	0.00%	Pass

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

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

Building Luminance (cd/m²)	10		

Total CO² per year (Tonnes)	2.42
Total Electrical consumption (Kw)	1.01
Total Electrical consumption per year (Kwh)	4,441.32
Average luminaire lumens per circuit Watt	130.77

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

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N

Queensgate Campus, Firth Street, Car Park	Scale 1:250 at A2	Project Number D39734
HEA Highway Electrical Association · HEMSA · Lighting Industry Association · ILP Institution of Lighting Professionals · SAFCA Ancillary Contractor 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	Date 6 May 2020	Drawing No. D39734/AE/A
	Lighting Designer : A Eldred	

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor 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.