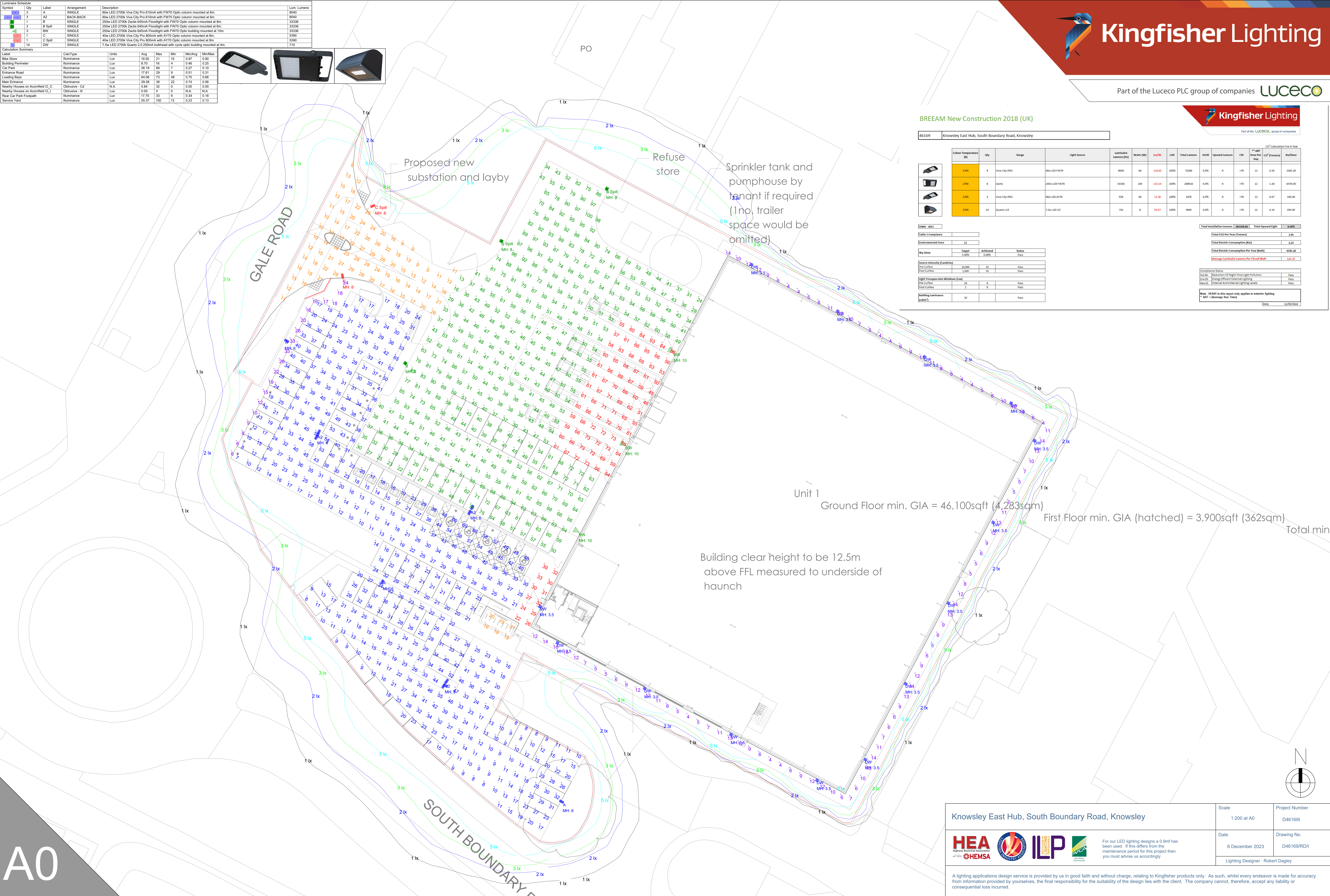


Dimensions are not to be scaled from this drawing

Luminaire Schedule					
Symbol	Qty	Label	Arrangement	Description	Lum. Lumens
	3	A	SINGLE	60w LED 2700k Viva City Pro 610mA with FW70 Optic column mounted at 6m.	8040
	3	A2	BACK-BACK	60w LED 2700k Viva City Pro 610mA with FW70 Optic column mounted at 6m.	8040
	1	B	SINGLE	250w LED 2700k Zactis 645mA Floodlight with FW70 Optic column mounted at 8m.	33336
	2	B Spill	SINGLE	250w LED 2700k Zactis 645mA Floodlight with FW70 Optic column mounted at 8m.	33336
	3	BW	SINGLE	250w LED 2700k Zactis 645mA Floodlight with FW70 Optic building mounted at 10m.	33336
	1	C	SINGLE	40w LED 2700k Viva City Pro 805mA with AT70 Optic column mounted at 8m.	5380
	1	C Spill	SINGLE	40w LED 2700k Viva City Pro 805mA with AT70 Optic column mounted at 8m.	5380
	14	DW	SINGLE	7.5w LED 2700k Quarto 2.0 250mA bulkhead with optic building mounted at 4m.	710
Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
Bike Store	Illuminance	Lux	19.50	21	19
Building Perimeter	Illuminance	Lux	8.70	16	4
Car Park	Illuminance	Lux	26.19	69	7
Entrance Road	Illuminance	Lux	17.01	29	9
Loading Bay	Illuminance	Lux	64.06	73	48
Main Entrance	Illuminance	Lux	29.58	39	22
Neighbouring Area	Illuminance	Lux	1.54	32	0
Neighbouring Area	Illuminance	Lux	0.00	0	0
Rear Car Park Footpath	Illuminance	Lux	17.70	33	6
Service Yard	Illuminance	Lux	55.37	100	13



Kingfisher Lighting

Part of the Luceco PLC group of companies



BREEAM New Construction 2018 (UK)

46169 Knowsley East Hub, South Boundary Road, Knowsley

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LCR	Total Lumens	UGR	Upward Lumens	CR	** AAT Hour Per Day	c02 (kWh/m2)	Kwh/m2
2700	9	Viva City PRO	60w LED FW70	8040	60	134.00	100%	72360	0.0%	0	>70	12	0.50	2385.20
2700	6	Zactis	250w LED FW70	33336	250	133.34	100%	200016	0.0%	0	>70	12	1.38	6370.00
2700	2	Viva City PRO	40w LED AT70	5380	40	134.50	100%	10760	0.0%	0	>70	12	0.07	250.40
2700	14	Quarto 2.0	7.5w LED OC	710	8	88.75	100%	9940	0.0%	0	>70	12	0.10	456.90

Table 1 Compliance	Target	Actual	Status
Key Glow	0.00%	0.00%	Pass
Source Intensity (Candelas)	10,000	85	Pass
Pre-Curfew	10,000	85	Pass
Post-Curfew	10,000	85	Pass
Light Trespass into Windows (lm)	0	0	Pass
Pre-Curfew	0	0	Pass
Post-Curfew	0	0	Pass
Building Luminance (cd/m2)	10	10	Pass

Total Installation Lumens	20394.00	Total Upward Light	0.00%
Total CO2 Per Year (Tonnes)		2.66	
Total Electric Consumption (kWh)		2.23	
Total Electric Consumption Per Year (kWh)		9365.50	
Average Luminaire Lumens Per Circuit Watt		127.37	
Compliance Status			
Part 04	Reduction Of Night Time Light Pollution	Pass	
Part 05	Energy Efficient External Lighting	Pass	
Part 06	Internal And External Lighting Levels	Pass	
Note: *HEAD1 in this report only applies to exterior lighting * ART = (Average Run Time)			

A0

Knowsley East Hub, South Boundary Road, Knowsley



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

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.