

DATE: 29 July 2022
DESIGNER: Thomas McCormack / Ross traynor
PROJECT No: 22018-PL-100 (Rev E)
PROJECT NAME: CARRICKMINES GREAT SHD



Designed in accordance with ISEN13201-2:2015 CLASS P4.

Consultation took place with a BAT specialist and the following recommendations have been implemented in this design:

- All luminaires are CU-Phosco LED type which will lack UV/IP elements
- LEDS are directional with dimming capability, zero % upward light & no tilt
- 2700kelvin used as recommended
- 550nm & above
- columns range from 4-6m in height. 4m along footpaths closest to overhead lines & along bat flight path.
- Baffles are to be fitted to luminaires to minimise spill into nearby dwellings & vegetation.

PUBLIC LIGHTING REPORT

PREPARED BY: McElligott Consulting Engineers

Layout Report

General Data

Dimensions in Metres Angles in Degrees
 Grid Origin 721321.7m x 722976.5m
 Area 309.9m x 341.3m
 Sample Spacing 1.50m x 1.50m

Luminaires

Luminaire A Data

Supplier	
Type	E950-28-P4A-727-BB-C0550-14W
Lamp(s)	727N
Lamp Flux (klm)	1.94
File Name	E950-28-P4A-727-BB-C0550-14W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	689.1, 181.9, 0.3
No. in Project	18

Luminaire B Data

Supplier	
Type	E950-28-R3A-727-C550-14W
Lamp(s)	727N
Lamp Flux (klm)	2.07
File Name	E950-28-R3A-727-C0550-14W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	716.7, 30.5, 0.3
No. in Project	8

Luminaire D Data

Supplier	
Type	E950-28-A2A-727-BB-C0850-22W
Lamp(s)	727N
Lamp Flux (klm)	2.26
File Name	E950-28-A2A-727-BB-C0850-22W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	566.1, 27.3, 1.1
No. in Project	6

Layout

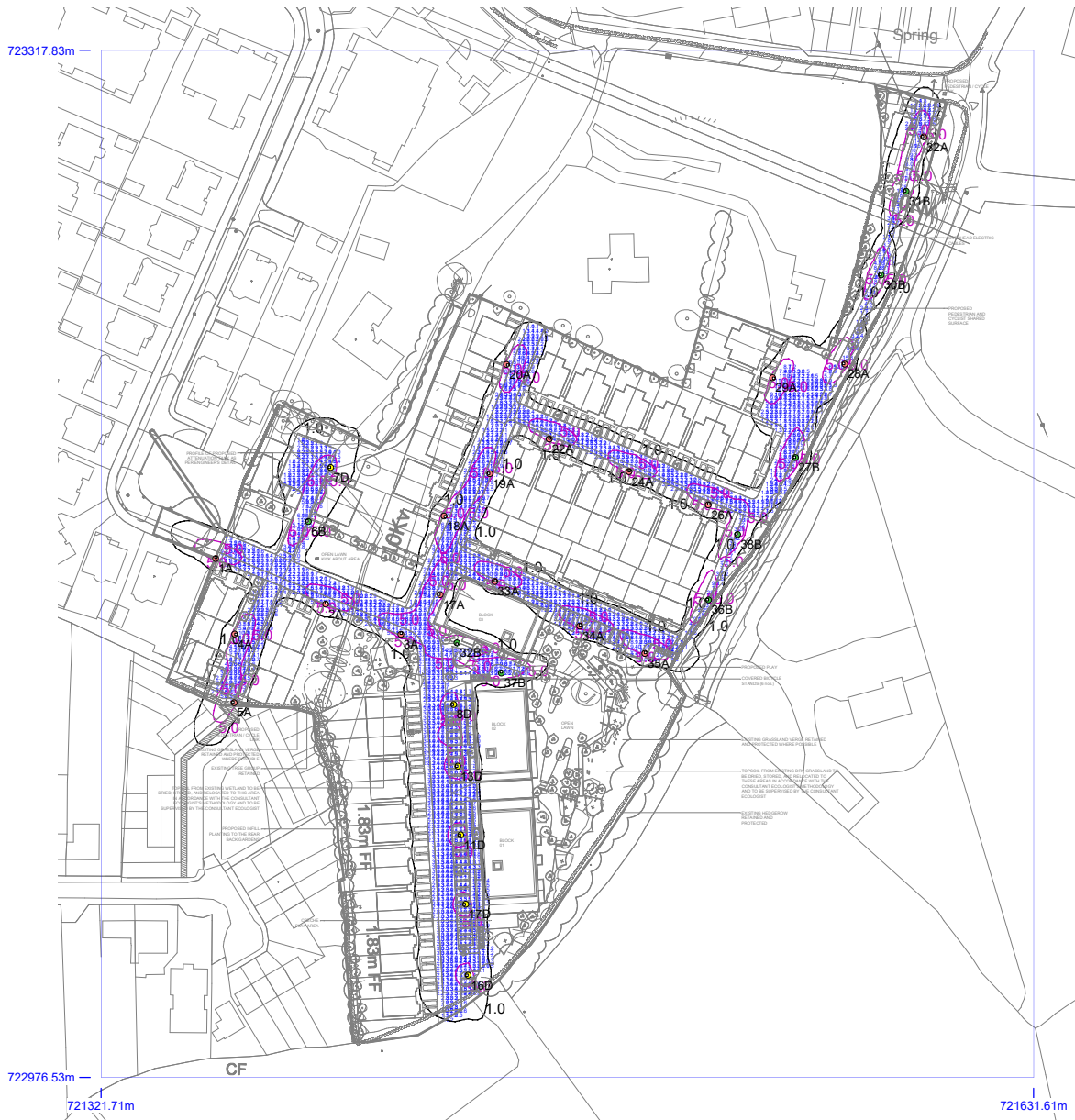
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	721359.73	723148.95	6.00	70.00	0.00	0.00	0.40			
2	A	721396.37	723133.85	6.00	69.00	0.00	0.00	0.40			
3	A	721421.30	723123.79	6.00	70.00	0.00	0.00	0.40			
4	A	721366.09	723123.93	6.00	337.00	0.00	0.00	0.40			
5	A	721365.90	723101.13	6.00	156.00	0.00	0.00	0.40			
6	B	721390.55	723161.30	6.00	159.00	0.00	0.00	0.40			
7	D	721398.02	723179.19	6.00	158.00	0.00	0.00	0.40			
8	D	721438.83	723100.53	6.00	181.00	0.00	0.00	0.40			
11	D	721441.18	723057.15	6.00	183.00	0.00	0.00	0.40			
13	D	721440.27	723079.98	6.00	181.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
16	D	721443.65	723010.56	6.00	183.00	0.00	0.00	0.40			
17	D	721442.82	723034.13	6.00	184.00	0.00	0.00	0.40			
17	A	721434.36	723136.94	6.00	155.00	0.00	0.00	0.40			
18	A	721435.64	723163.11	6.00	334.00	0.00	0.00	0.40			
19	A	721450.88	723177.14	6.00	161.00	0.00	0.00	0.40			
20	A	721456.40	723213.44	6.00	337.00	0.00	0.00	0.40			
22	A	721470.61	723188.65	6.00	68.00	0.00	0.00	0.40			
24	A	721497.08	723177.81	6.00	68.00	0.00	0.00	0.40			
26	A	721523.45	723166.81	6.00	69.00	0.00	0.00	0.40			
27	B	721552.45	723182.51	6.00	158.00	0.00	0.00	0.40			
28	A	721568.75	723213.54	5.00	152.00	0.00	0.00	0.40			
29	A	721544.84	723209.04	6.00	334.00	0.00	0.00	0.40			
30	B	721580.93	723243.17	4.00	162.00	0.00	0.00	0.40			
31	B	721589.14	723271.00	4.00	164.00	0.00	0.00	0.40			
32	A	721595.02	723289.06	5.00	161.00	0.00	0.00	0.40			
33	A	721452.56	723141.33	6.00	68.00	0.00	0.00	0.40			
34	A	721480.72	723126.56	6.00	70.00	0.00	0.00	0.40			
35	A	721502.39	723117.43	6.00	69.00	0.00	0.00	0.40			
36	B	721523.49	723135.19	4.00	159.00	0.00	0.00	0.40			
37	B	721454.64	723110.93	5.00	91.00	0.00	0.00	0.40			
38	B	721533.18	723156.97	4.00	156.00	0.00	0.00	0.40			
32	B	721439.96	723121.01	5.00	273.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.21
Emin	1.01
Emax	45.72
Emin/Emax	0.02
Emin/Eav	0.19