

DATE: 14 February 2019
DESIGNER: Danny Monk
PROJECT No:
PROJECT NAME: Express WXM Golf Club



Outdoor Lighting Report

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Layout Report

General Data

Dimensions in Metres Angles in Degrees

Grid Origin -741.4m x 762.7m

Area 154.5m x 138.3m

Sample Spacing 1.49m x 1.49m

Luminaires

Luminaire A Data

Supplier	
Type	EXPRESS030W-T3A
Lamp(s)	EXPRESS030W-T3A
Lamp Flux (klm)	3.70
File Name	EXPRESS030-T3A.ies
Maintenance Factor	0.92
Imax70,80,90(cd/klm)	402.5, 218.0, 16.3
No. in Project	15

Luminaire B Data

Supplier	
Type	EXPRESS060-T3A
Lamp(s)	EXPRESS060-T3A
Lamp Flux (klm)	7.23
File Name	EXPRESS060-T3A.ies
Maintenance Factor	0.92
Imax70,80,90(cd/klm)	402.5, 218.0, 16.3
No. in Project	13

Luminaire C Data

Supplier	
Type	EXPRESS-CANOPY090 CRM-CSM
Lamp(s)	EXPRESS-CANOPY090 CRM-CSM
Lamp Flux (klm)	10.08
File Name	EXPRESS-CANOPY090.IES
Maintenance Factor	0.92
Imax70,80,90(cd/klm)	35.5, 5.5, 0.0
No. in Project	30

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	C	-667.89	809.04	5.00	90.00	0.00	0.00	0.00			
2	C	-660.68	809.04	5.00	90.00	0.00	0.00	0.00			
3	C	-667.89	813.24	5.00	90.00	0.00	0.00	0.00			
4	C	-660.68	813.24	5.00	90.00	0.00	0.00	0.00			
5	C	-667.89	817.44	5.00	90.00	0.00	0.00	0.00			
6	C	-660.68	817.44	5.00	90.00	0.00	0.00	0.00			
7	C	-667.89	821.64	5.00	90.00	0.00	0.00	0.00			
8	C	-660.68	821.64	5.00	90.00	0.00	0.00	0.00			
9	C	-667.89	825.84	5.00	90.00	0.00	0.00	0.00			
10	C	-660.68	825.84	5.00	90.00	0.00	0.00	0.00			

Layout Continued

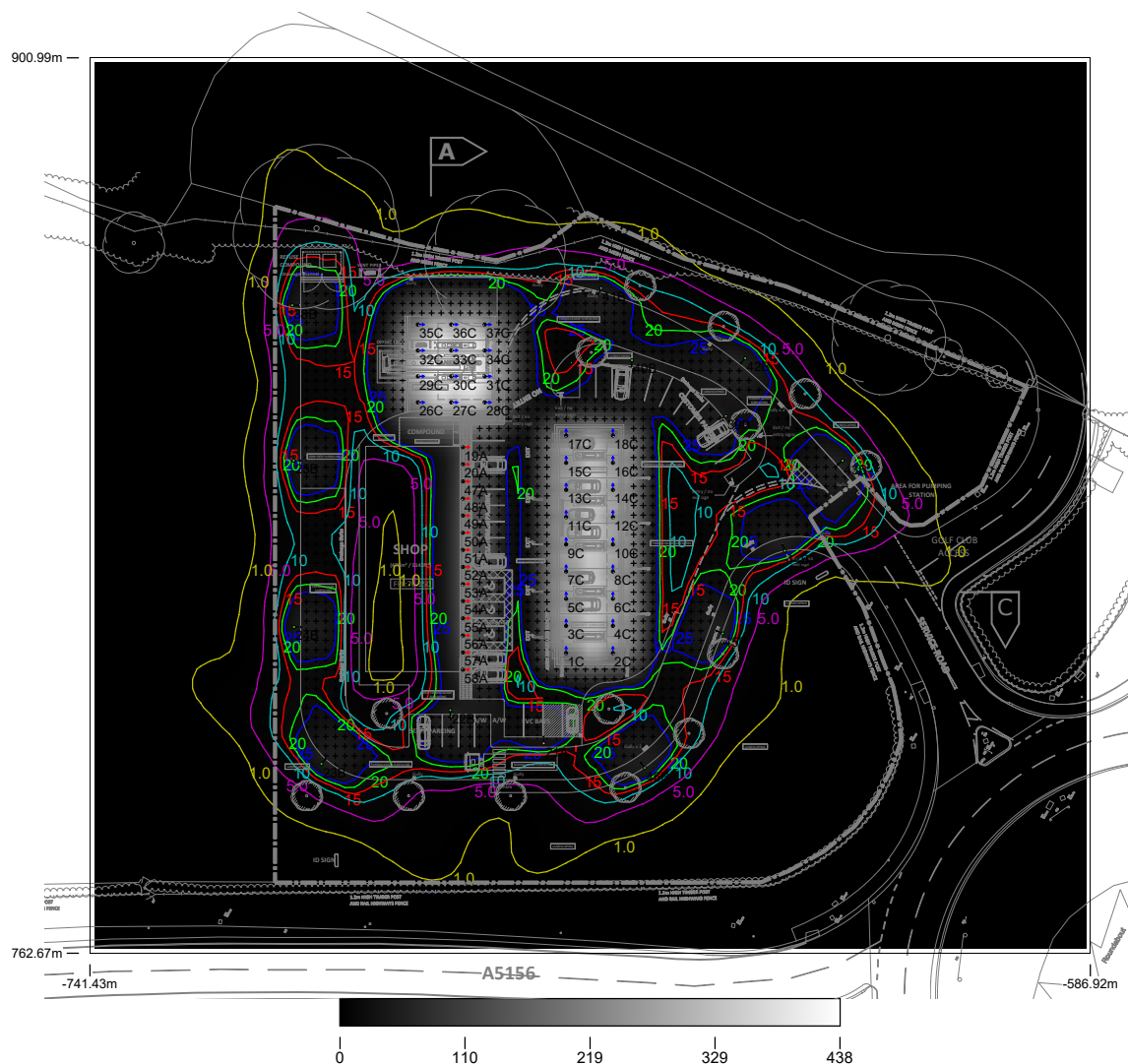
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
11	C	-667.89	830.04	5.00	90.00	0.00	0.00	0.00			
12	C	-660.68	830.04	5.00	90.00	0.00	0.00	0.00			
13	C	-667.89	834.23	5.00	90.00	0.00	0.00	0.00			
14	C	-660.68	834.23	5.00	90.00	0.00	0.00	0.00			
15	C	-667.89	838.43	5.00	90.00	0.00	0.00	0.00			
16	C	-660.68	838.43	5.00	90.00	0.00	0.00	0.00			
17	C	-667.89	842.63	5.00	90.00	0.00	0.00	0.00			
18	C	-660.68	842.63	5.00	90.00	0.00	0.00	0.00			
19	A	-683.83	840.85	5.00	0.00	0.00	0.00	0.00			
20	A	-683.83	838.21	5.00	0.00	0.00	0.00	0.00			
21	A	-671.36	795.09	5.00	92.00	0.00	0.00	1.00			
22	B	-685.78	800.24	6.00	270.00	10.00	0.00	1.00			
23	B	-705.68	791.94	6.00	51.00	0.00	0.00	1.00			
24	B	-709.93	813.07	6.00	0.00	0.00	0.00	1.00			
25	B	-709.98	838.77	6.00	0.00	5.00	0.00	1.00			
26	C	-690.80	847.77	6.00	0.00	0.00	0.00	0.00			
27	C	-685.64	847.77	6.00	0.00	0.00	0.00	0.00			
28	C	-680.49	847.77	6.00	0.00	0.00	0.00	0.00			
29	C	-690.80	851.78	6.00	0.00	0.00	0.00	0.00			
30	C	-685.64	851.78	6.00	0.00	0.00	0.00	0.00			
31	C	-680.49	851.78	6.00	0.00	0.00	0.00	0.00			
32	C	-690.80	855.79	6.00	0.00	0.00	0.00	0.00			
33	C	-685.64	855.79	6.00	0.00	0.00	0.00	0.00			
34	C	-680.49	855.79	6.00	0.00	0.00	0.00	0.00			
35	C	-690.80	859.80	6.00	0.00	0.00	0.00	0.00			
36	C	-685.64	859.80	6.00	0.00	0.00	0.00	0.00			
37	C	-680.49	859.80	6.00	0.00	0.00	0.00	0.00			
38	B	-710.19	862.78	6.00	0.00	5.00	0.00	1.00			
39	B	-643.23	845.66	6.00	207.00	10.00	0.00	1.00			
40	B	-657.72	854.28	6.00	265.00	0.00	0.00	1.00			
41	B	-662.49	865.40	6.00	251.00	0.00	0.00	1.00			
42	B	-640.22	854.58	6.00	228.00	0.00	0.00	1.00			
43	B	-625.20	838.75	6.00	218.00	0.00	0.00	1.00			
44	B	-634.12	824.87	6.00	111.00	10.00	0.00	1.00			
45	B	-643.72	812.09	6.00	157.00	0.00	0.00	1.00			
46	B	-655.77	791.30	6.00	126.00	0.00	0.00	1.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
47	A	-683.83	835.56	5.00	0.00	0.00	0.00	0.00			
48	A	-683.83	832.92	5.00	0.00	0.00	0.00	0.00			
49	A	-683.83	830.27	5.00	0.00	0.00	0.00	0.00			
50	A	-683.83	827.63	5.00	0.00	0.00	0.00	0.00			
51	A	-683.83	824.99	5.00	0.00	0.00	0.00	0.00			
52	A	-683.83	822.34	5.00	0.00	0.00	0.00	0.00			
53	A	-683.83	819.70	5.00	0.00	0.00	0.00	0.00			
54	A	-683.83	817.06	5.00	0.00	0.00	0.00	0.00			
55	A	-683.83	814.41	5.00	0.00	0.00	0.00	0.00			
56	A	-683.83	811.77	5.00	0.00	0.00	0.00	0.00			
57	A	-683.83	809.13	5.00	0.00	0.00	0.00	0.00			
58	A	-683.83	806.48	5.00	0.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	47.20
Emin	6.84
E _{max}	247.85
Emin/E _{max}	0.03
Emin/Eav	0.14