

DATE: 28 February 2022
DESIGNER: Alex Naper
PROJECT No: SES 00822 Rev D
PROJECT NAME: Boyne Greenway



Category C4, approaches meet recommendations of EN13201-2:2015 Category P3.

CH 2220 Area meets recommendations of EN13201-2:2015 Category C3.

CH 3740 Conflict area designed in accordance with EN13201-2:2015 Category C4.

CH 5320 Conflict area meets recommendations of EN13201-2:2015 Category C5 with existing luminaires, approaches meet recommendations of EN13201-2:2015 Category P3.

Rev A: Existing column locations relocated as per survey results.
Rev B: CH1900 lighting removed.
Rev C: Updated as per comments.
Rev D: Updated as per comments.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
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Contact: Graham Sheehan
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Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	313235.82	275893.30	169.37	147.00	1.50	1.50
2	Grid 2	314668.00	276129.86	235.00	96.00	1.50	1.50
3	Grid 3	314690.00	276173.00	99.00	33.00	1.50	1.50
4	Grid 4	311507.00	275479.00	258.00	150.00	1.50	1.50
5	Grid 5	311512.00	275484.00	258.00	150.00	1.50	1.50
6	Grid 6	311810.00	275688.00	147.00	63.00	1.50	1.50
7	Grid 7	309699.92	275095.99	210.00	120.00	1.50	1.50

Luminaires



Luminaire A Data

Supplier	C U Phosco
Type	P863-128-R2E-730-W3-450-59W
Lamp(s)	730SS
Lamp Flux (klm)	8.21
File Name	P863-128-R2E-730-W3-450-59W.ies
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	463.7, 84.3, 0.0
No. in Project	4

Luminaire B Data

Supplier	
Type	2687 SNN-1C#
Lamp(s)	1 ST 150 17500 2000 E40
LampFlux(klm)/Colour	17.50 1950 / 23
File Name	Arc 2687 SNN 1C# 1 ST 150 17500 1950 E 40.ltd
Maintenance Factor	0.75
Imax70,80,90(cd/klm)	316.0, 165.0, 8.0
No. in Project	9



Luminaire C Data

Supplier	Philips
Type	BGP292 DPL1
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	8.00
File Name	LumiStreet Gen2 Mini_BGP292_DPL1_800_0_40LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	244.9, 31.4, 0.0
No. in Project	2



Luminaire F Data

Supplier	Holophane Europe
Type	VMX.2.LA084.V2.D4D4.W055
Lamp(s)	LED C.8000 Lumens
Lamp Flux (klm)	8.19
File Name	VMX.2.LA084.V2.D4D4.W055.IES
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	715.1, 302.4, 0.0
No. in Project	4

Luminaires



Luminaire G Data

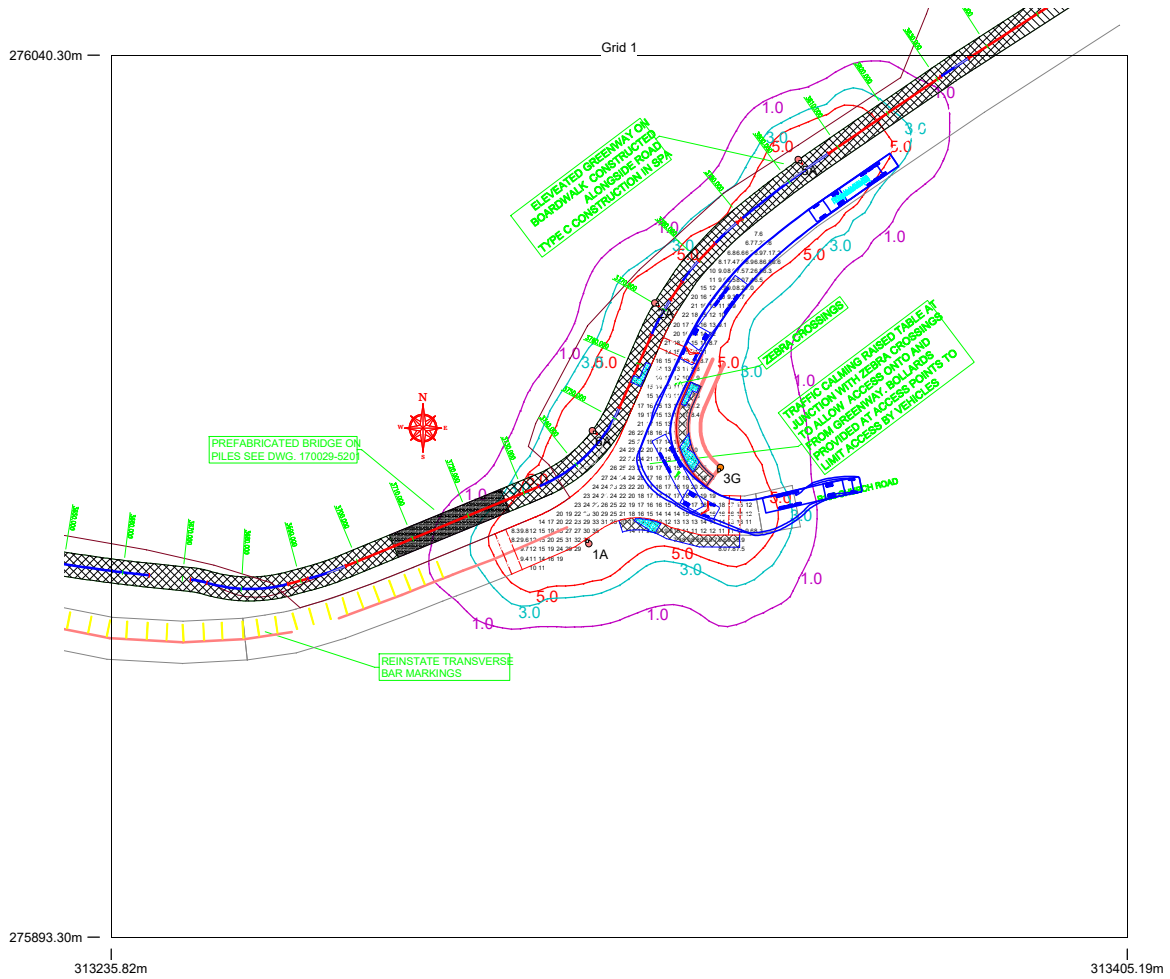
Supplier	C U Phosco
Type	P863-128-F2B-730-W3-450-59W
Lamp(s)	730SS
Lamp Flux (klm)	7.96
File Name	P863-128-F2B-730-W3-450-59W.ies
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	461.8, 61.8, 0.8
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	313315.40	275958.89	8.00	121.00	0.00	0.00	0.50			
2	A	313326.40	275999.03	8.00	323.00	0.00	0.00	0.50			
3	G	313337.34	275971.61	8.00	244.00	0.00	0.00	0.50			
5	A	313350.29	276022.89	8.00	314.00	0.00	0.00	0.50			
6	A	313316.00	275977.75	8.00	321.00	0.00	0.00	0.50			
6	F	314814.39	276193.18	8.00	257.00	0.00	0.00	0.50			
8	F	314847.07	276170.96	8.00	71.00	0.00	0.00	0.50			
10	F	314771.16	276182.60	8.00	89.00	0.00	0.00	0.50			
11	F	314726.31	276184.02	8.00	87.00	0.00	0.00	0.50			
12	C	309778.25	275155.80	6.00	106.00	0.00	0.00	0.50			
13	C	309768.38	275161.35	6.00	288.00	0.00	0.00	0.50			
23	B	311887.66	275719.88	8.00	105.00	5.00	0.00	1.56			
24	B	311860.09	275713.20	8.00	105.00	5.00	0.00	1.56			
25	B	311836.89	275706.30	8.00	105.00	5.00	0.00	1.56			
26	B	311911.29	275725.02	8.00	96.00	5.00	0.00	1.56			
27	B	311938.77	275723.88	8.00	94.00	5.00	0.00	1.56			
17	B	309758.32	275161.46	8.00	288.00	5.00	0.00	1.56			
18	B	309801.78	275176.14	8.00	290.00	5.00	0.00	1.56			
19	B	309820.88	275167.26	8.00	105.00	5.00	0.00	1.56			
20	B	309864.52	275178.19	8.00	102.00	5.00	0.00	1.56			

Horizontal Illuminance (lux)

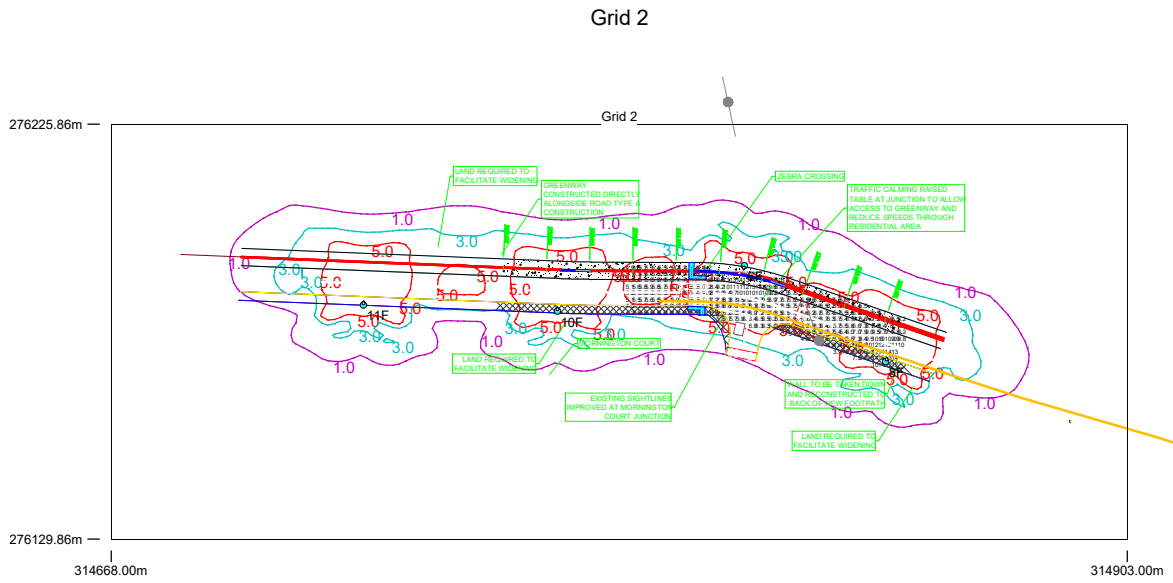
Grid 1



Results

Eav	15.39
Emin	6.26
Emax	34.78
Emin/Emax	0.18
Emin/Eav	0.41

Horizontal Illuminance (lux)

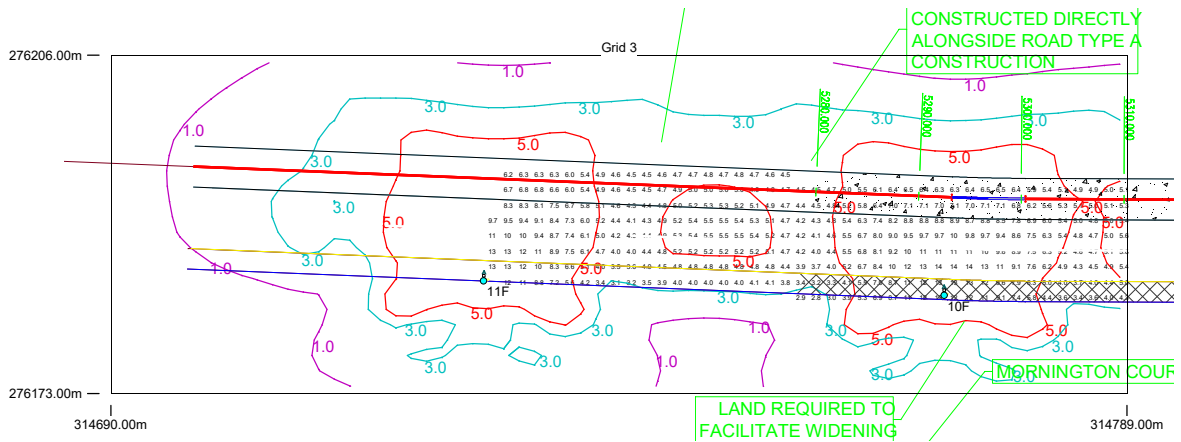


Results

Eav	6.93
Emin	3.88
E _{max}	14.35
E _{min} /E _{max}	0.27
E _{min} /E _{av}	0.56

Horizontal Illuminance (lux)

Grid 3

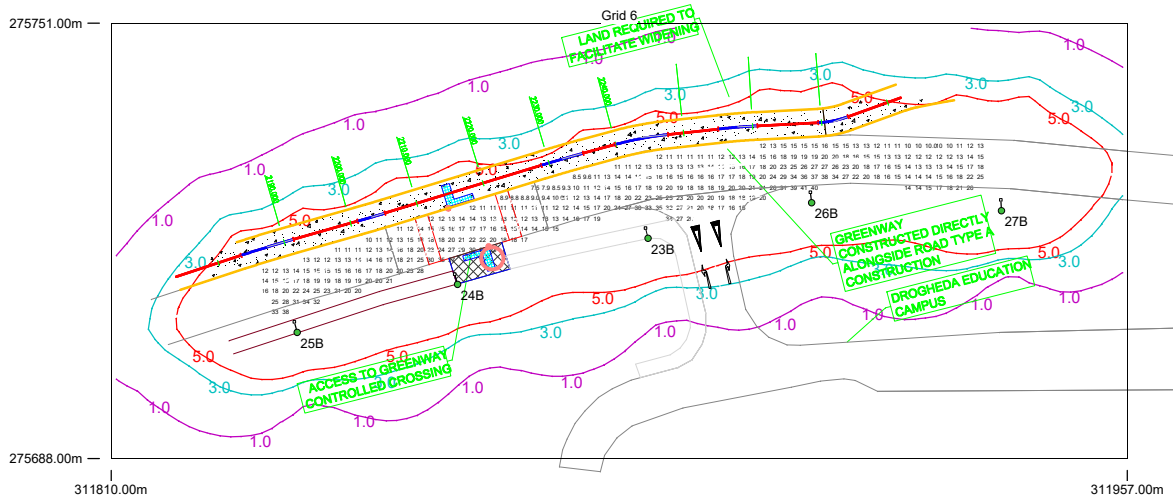


Results

Eav	6.41
Emin	2.82
E _{max}	13.70
E _{min} /E _{max}	0.21
E _{min} /E _{av}	0.44

Horizontal Illuminance (lux)

Grid 6



Results

Eav	17.45
Emin	7.54
Emax	41.41
Emin/Emax	0.18
Emin/Eav	0.43