

DATE: 22 June 2022

DESIGNER: Mike Mills

PROJECT No:

PROJECT NAME: THE CHARTER GRAVESEND

**LIGHTING
REALITY**

Streetlighting Design using 6metre Columns with P863 lanterns all to KCC.
Lighting Designed to BS5489 2020 Category P3.

Outdoor Lighting Report

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 564750.0m x 174235.0m
Area 200.0m x 215.0m
Sample Spacing 1.00m x 1.00m

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P863-128-R1-740-W5-250-34W
Lamp(s)	740SS
Lamp Flux (klm)	5.11
File Name	P863-128-R1-740-W5-250-34W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	363.9, 22.3, 0.5
No. in Project	10

Luminaire B Data



Supplier	C U Phosco
Type	P863-16-P4-NW-E0400-22W
Lamp(s)	740P NW
Lamp Flux (klm)	2.44
File Name	P863-16-P4-NW-E0400-22W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	649.9, 187.0, 0.0
No. in Project	11

Luminaire C Data



Supplier	C U Phosco
Type	P863-128-P4-740-W5-325-43W
Lamp(s)	740SS
Lamp Flux (klm)	6.35
File Name	P863-128-P4-740-W5-325-43W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	429.6, 140.1, 0.5
No. in Project	2

Luminaire D Data



Supplier	C U Phosco
Type	P863-16-R3-NW-E0550-29W
Lamp(s)	740P NW
Lamp Flux (klm)	3.44
File Name	P863-16-R3-NW-E0550-29W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	929.9, 32.2, 0.0
No. in Project	3

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
7	A	564815.04	174320.46	6.00	180.00	5.00	0.00	0.30	100%			
6	C	564830.80	174339.24	6.00	270.00	5.00	0.00	0.30	100%			
5	C	564856.72	174327.75	6.00	90.00	5.00	0.00	0.30	100%			
8	A	564815.38	174296.02	6.00	175.00	5.00	0.00	0.30	100%			
11	A	564865.16	174263.04	6.00	80.00	5.00	0.00	0.30	100%			
10	A	564834.44	174269.47	6.00	80.00	5.00	0.00	0.30	100%			
9	A	564804.46	174276.75	6.00	75.00	5.00	0.00	0.30	100%			
4	A	564817.87	174352.25	6.00	180.00	5.00	0.00	0.30	100%			
BCAH008 TO STAY	B	564876.78	174337.08	8.00	325.00	5.00	0.00	0.30	100%			
BTAI001 TO STAY	B	564894.82	174326.68	10.00	145.00	5.00	0.00	0.30	100%			

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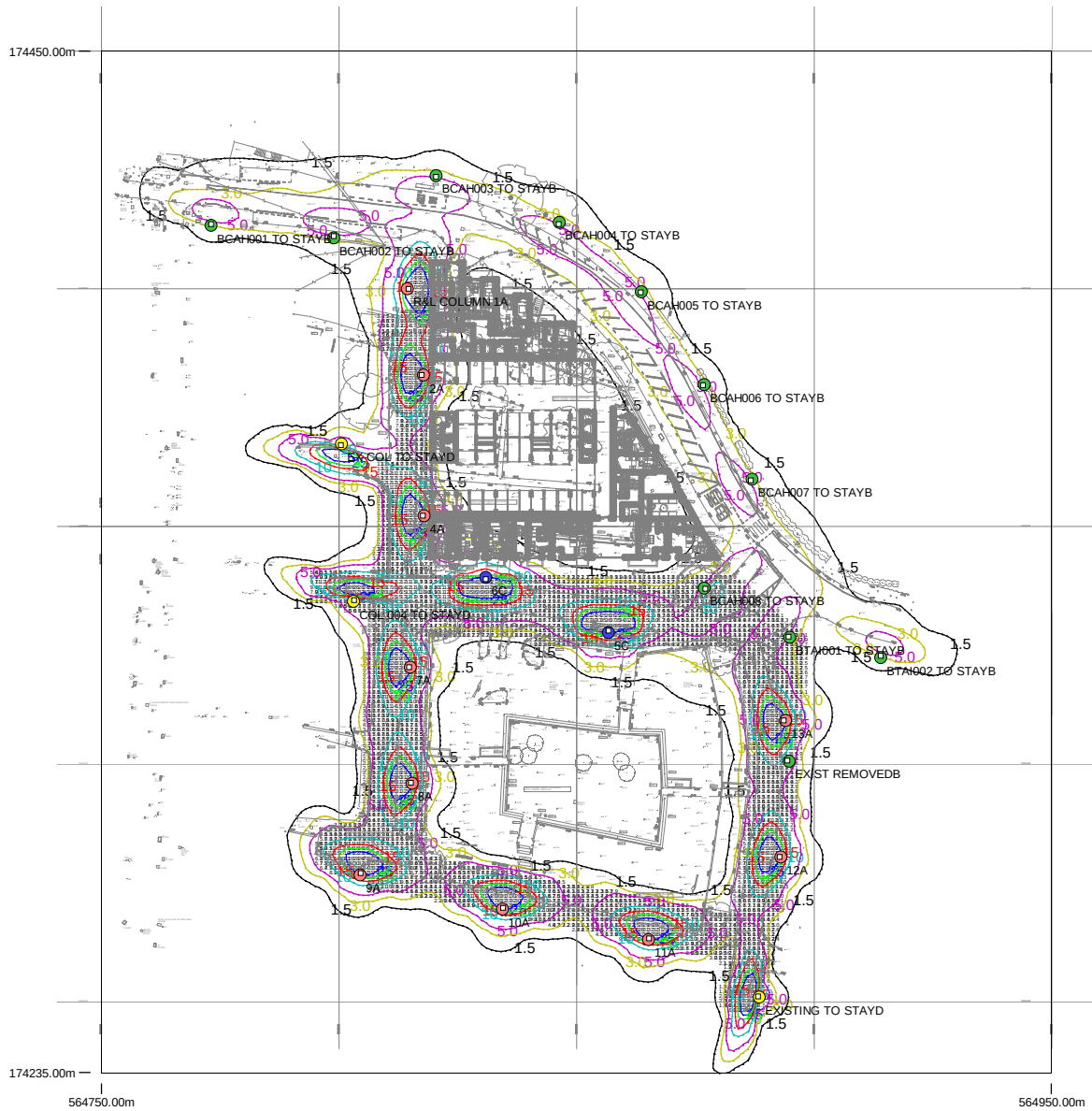
**LIGHTING
REALITY**

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
EXISTING TO STAY	D	564888.41	174251.06	5.00	170.00	5.00	0.00	0.30	100%			
COL 004 TO STAY	D	564803.08	174334.27	6.00	85.00	5.00	0.00	0.30	100%			
12	A	564892.94	174280.48	6.00	170.00	5.00	0.00	0.30	100%			
EXIST REMOVED	B	564894.66	174300.68	6.00	175.00	5.00	0.00	0.30	0%			
13	A	564893.93	174309.20	6.00	185.00	5.00	0.00	0.30	100%			
2	A	564817.71	174381.81	6.00	180.00	5.00	0.00	0.30	100%			
BCAH007 TO STAY	B	564886.91	174359.91	10.00	210.00	5.00	0.00	0.30	100%			
BCAH004 TO STAY	B	564846.36	174413.92	10.00	240.00	5.00	0.00	0.30	100%			
BCAH006 TO STAY	B	564876.79	174379.83	10.00	210.00	5.00	0.00	0.30	100%			
BCAH005 TO STAY	B	564863.66	174399.36	10.00	215.00	5.00	0.00	0.30	100%			
BCAH003 TO STAY	B	564820.42	174423.81	10.00	260.00	5.00	0.00	0.30	100%			
BCAH002 TO STAY	B	564798.84	174410.74	10.00	85.00	5.00	0.00	0.30	100%			
BCAH001 TO STAY	B	564773.02	174413.30	10.00	80.00	5.00	0.00	0.30	100%			
BTAI002 TO STAY	B	564913.93	174322.47	10.00	70.00	5.00	0.00	0.30	100%			
R&L COLUMN 1	A	564814.34	174399.94	6.00	0.00	0.00	0.00	0.30	100%			
EX COL TO STAY	D	564800.46	174367.38	6.00	255.00	5.00	0.00	0.30	100%			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	11.23
Emin	1.59
Emax	44.13
Emin/Emax	0.04
Emin/Eav	0.14