



COL. NO.	POSITION OF COLUMN		COL. ROT'N
	X	Y	
R2-1	503987.59	104069.55	111
R2-2	504000.93	104104.97	111
R2-3	504012.95	104137.65	112
R2-4	504027.37	104172.06	112
R2-5	504044.38	104184.38	222
R3-1	504007.54	104149.42	20
R3-2	503983.68	104165.54	195
R3-3	503962.54	104166.25	99
R4-1	504042.55	104120.09	197
R4-2	504067.70	104108.83	290
R5-1	503982.58	104032.20	294
R5-2	503962.93	104012.75	120
R8-1	504104.49	104012.70	112
R8-2	504118.64	104044.17	113
R8-3	504137.83	104074.95	143
R9-1	504100.72	104067.75	196
R9-2	504072.92	104074.07	113

COL. NO.	POSITION OF COLUMN		COL. ROT'N
	X	Y	
R10-1	504149.25	104080.38	228
R10-2	504173.80	104051.94	229
R10-3	504176.52	104019.33	282
R10-4	504166.83	103987.12	282
R10-5	504160.43	103951.51	295
R10-6	504105.03	103939.51	192
R10-7	504136.22	103934.72	187
R10-8	504170.25	103919.59	8
R11-1	503908.42	104079.46	18
R11-2	503931.26	104069.26	24
R11-3	503957.87	104057.33	27
R11-4	503993.38	104041.93	20
R11-5	504026.13	104027.39	23
R11-6	504057.73	104013.48	25
R11-7	504090.31	104010.40	204
R11-8	504103.40	103977.86	294
R11-9	504090.24	103947.27	299

Key

- Existing 6m highway column with Luma Gen2 Micro lantern (Luma Gen2 Micro, BGP702, DW50 BL1 5200, 20LED, 5.2S, CLO L90, 74 to remain)
- Existing 6m highway column with Luma Gen2 Micro lantern (Luma Gen2 Micro, BGP702, DW10 BL1 600, 6LED, 5.2S, CLO L90, 740) to remain
- Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702, DW50 2400 10LED 5.2S CLO L90 730 with warm white LED, integral driver 6 pin nema socket and mayflower GPS DALI node
- Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702, DW10 2000 10LED 5.2S CLO L90 730 with warm white LED, integral driver 6 pin nema socket and mayflower GPS DALI node
- Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702, DW10 BL1 2200 10LED 5.2S CLO L90 730 with white LED, Philips BL1 back shield, integral driver 6 pin nema socket and mayflower GPS DALI node
- Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702, DW10 BL1 1400 6LED 5.2S CLO L90 730 with white LED, Philips BL1 back shield integral driver 6 pin nema socket and mayflower GPS DALI node
- Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702, DW10 BL1 1400 6LED 5.2S CLO L90 730 with white LED, integral driver 6 pin nema socket and mayflower GPS DALI node
- Proposed column number
- Existing column number
- 3.00 lux iso-contour line
- 0.60 lux iso-contour line

Notes

- All columns and signs shall be serviced via DNO supplies and fitted with a 25A fuse. Wall mounted units to be supplied locally from the property the lighting unit is attached too.
- Columns shall be fitted with secondary isolation above the DNO cut out. The Unit shall be as Sussex County Council specification i.e. Charles Endirect LSI-02 with a 32A Isolator and as BS88 Fuse Carrier. Fuse discrimination shall comply with BS7671 between the DNO cut out and the secondary isolation.
- Where needed a sub fuses for external sub circuits shall be fitted with 10A BS 88 fuses with a 6A fuse in the external sign. Fuse discrimination shall comply with BS7671.
- Prior to any excavation the contractor shall have reviewed the existing services in the area of the excavation. Residual risks where known have been indicated. The have been based upon design drawing and may have changed at construction stage. Where there are known services in the vicinity of excavations the Contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavation.
- In this instance the use of 3 dimensional masking has not been used to take into consideration the actual position of high sided objects such as buildings and the like. Trees and shrubs etc have not been considered as their masking ability will vary with seasonal conditions.
- Iso contours produced in this drawing have been created using a conventional symmetrical grid. This does not take into account the spacing or weightings as detailed in BS5489 or BS EN 13201-3:2003
- Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Electrical Lighting Solutions (www.elstld.co.uk), Marwood Electrical (www.marwoodelectrical.co.uk) or Maclean Electrical (www.macleanelectrical.co.uk)
- Copies of the original lighting reality calculations available upon request please send a email to mail@nicksmithassociates.com quoting the project number.
- This design has been prepared in accordance with BS5489-1:2020 the use of S/P ratios has not been used.
- Adopted Lighting columns:
Subsidiary roads
71P/PSX 700 polysiloxane and Amercoat 4560 GF epoxy glass flake road protection.
Columns designed to take an additional loading of a 0.6 metre square sign plate. Columns to be painted BS 22817 (GREY) as adjacent phase.
- Internal wiring. The cable from secondary isolator to the lantern 1.5mm² 3 core flex (3183Y) on columns greater height than 10m the cable size will increase to 2.5mm²
- Column shall be installed at the back of footpath with 0.5m clearance from driveway. Columns in verge shall be at least 0.8m from edge of carriageway or parking bays.

Comparable Level of Lighting Classes from EN13201-2:2015											
M Class	M1	M2	M3	M4	M5	M6					
C Class	C0	C1	C2	C3	C4	C5					
P Class				P1	P2	P3	P4	P5	P6		

Summary of Lighting P Classes from EN13201-2:2015			
Class	Eave	E Min	E Ave Max
P1	10 lux	6 lux	22.5 lux
P2	10 lux	3 lux	15 lux
P3	7.50 lux	1.50 lux	11.25 lux
P4	7.50 lux	0.75 lux	11.25 lux
P5	3.00 lux	0.60 lux	4.50 lux
P6	2.00 lux	0.40 lux	3.00 lux

Road	
Footpaths	

Grid 2 Results - Horizontal Illuminance (lux)			
Eave	3.15		
Emin	0.84		
Emax	9.83		
Emin/Emax	0.09		
Emin/Eave	0.27		
Emax/Eave	3.12		

Grid 3 Results - Horizontal Illuminance (lux)			
Eave	3.09		
Emin	0.82		
Emax	7.64		
Emin/Emax	0.08		
Emin/Eave	0.20		
Emax/Eave	2.47		

Grid 4 Results - Horizontal Illuminance (lux)			
Eave	3.14		
Emin	0.82		
Emin/Emax	0.06		
Emin/Eave	0.20		
Emax/Eave	3.41		

Grid 5 Results - Horizontal Illuminance (lux)			
Eave	3.70		
Emin	0.77		
Emin/Emax	0.07		
Emin/Eave	0.21		
Emax/Eave	2.90		

Grid 8 Results - Horizontal Illuminance (lux)			
Eave	3.86		
Emin	0.79		
Emin/Emax	0.07		
Emin/Eave	0.20		
Emax/Eave	2.92		

Road 11 Results - Horizontal Illuminance (lux)			
Eave	3.25		
Emin	0.64		
Emin/Emax	0.05		
Emin/Eave	0.20		
Emax/Eave	3.73		

Grid 9 Results - Horizontal Illuminance (lux)			
Eave	3.29		
Emin	0.62		
Emin/Emax	0.06		
Emin/Eave	0.19		
Emax/Eave	3.28		

Grid 12 Results - Horizontal Illuminance (lux)			
Eave	3.41		
Emin	0.74		
Emin/Emax	0.07		
Emin/Eave	0.22		
Emax/Eave	3.15		

Grid 13 Results - Horizontal Illuminance (lux)			
Eave	3.06		
Emin	0.82		
Emin/Emax	0.06		
Emin/Eave	0.20		
Emax/Eave	3.52		

Grid 14 Results - Horizontal Illuminance (lux)			
Eave	3.04		
Emin	0.97		
Emin/Emax	0.17		
Emin/Eave	0.32		
Emax/Eave	1.85		



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