

DATE: 24 February 2026
DESIGNER: Matt Clarke
PROJECT No: LD122510 Rev 1
PROJECT NAME: Desford Lane



Rev 1 Single sided bollard change

Solar Lighting Bollard

Please note this bollard are for Marker lighting only and do not provide lighting to a BS standard.

MF = 1

On site Private Solar Bollard

All aspects of the design has been considered and details are submitted within the design summary. This layout has been completed in line with Construction Design and Management regulations 2015 (CDM2015).

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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	450888.87	305396.76	17.47	48.34	1.03	1.01
2	Grid 2	450948.06	305415.11	132.87	22.25	1.00	1.01
3	Grid 3	451086.85	305378.71	19.02	52.30	1.00	1.01
4	Grid 4	450927.59	305284.73	26.30	71.86	1.01	1.00
5	Grid 5	450949.45	305304.14	61.88	21.94	1.00	1.00
6	Grid 6	450966.72	305214.60	29.12	73.12	1.00	1.00
7	Grid 7	451021.77	305210.27	25.57	76.36	1.02	1.00
8	Grid 8	451059.30	305151.65	42.67	51.48	1.02	1.01
9	Grid 9	451126.19	305133.17	109.69	35.12	1.00	1.00
10	Grid 10	451216.69	305193.82	35.33	138.06	1.01	1.00
11	Grid 11	451066.09	305316.27	19.14	56.56	1.01	1.01
12	Grid 12	451067.62	305213.12	19.28	61.87	1.01	1.00
13	Grid 13	451093.32	305302.04	33.40	74.88	1.01	1.00
14	Grid 14	451270.03	305318.92	20.55	49.93	1.03	1.00
15	Grid 15	451169.58	305387.33	95.52	54.50	1.01	1.01
16	Grid 16	451113.46	305379.94	31.14	61.98	1.00	1.00

Luminaires

Luminaire A Data

Supplier	
Type	PRA-10062-T4-8030
Lamp(s)	2x4 LED 3000K
Lamp Flux (klm)	0.40
File Name	PRA-10062-T4-8030.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	311.2, 25.1, 0.0
No. in Project	63

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	450902.70	305398.49	1.00	308.00	0.00	0.00	0.00			
2	A	450923.33	305419.11	1.00	313.00	0.00	0.00	0.00			
3	A	450914.03	305411.53	1.00	322.00	0.00	0.00	0.00			
4	A	450961.93	305426.07	1.00	282.00	0.00	0.00	0.00			
5	A	450984.87	305428.43	1.00	275.00	0.00	0.00	0.00			



Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
6	A	451032.02	305428.86	1.00	275.00	0.00	0.00	0.00			
7	A	451053.00	305431.77	1.00	273.00	0.00	0.00	0.00			
8	A	451074.87	305430.94	1.00	272.00	0.00	0.00	0.00			
9	A	451101.16	305382.15	1.00	169.00	0.00	0.00	0.00			
10	A	451102.27	305396.99	1.00	169.00	0.00	0.00	0.00			
11	A	451107.90	305416.46	1.00	160.00	0.00	0.00	0.00			
12	A	450915.02	305342.05	1.00	22.00	0.00	0.00	0.00			
13	A	450924.18	305317.16	1.00	20.00	0.00	0.00	0.00			
14	A	450931.02	305300.07	1.00	25.00	0.00	0.00	0.00			
15	A	450995.08	305310.87	1.00	96.00	0.00	0.00	0.00			
16	A	450972.95	305315.76	1.00	274.00	0.00	0.00	0.00			
17	A	450972.91	305231.38	1.00	73.00	0.00	0.00	0.00			
18	A	450964.30	305247.05	1.00	185.00	0.00	0.00	0.00			
19	A	450950.42	305258.61	1.00	20.00	0.00	0.00	0.00			
20	A	450945.67	305272.15	1.00	20.00	0.00	0.00	0.00			
21	A	451045.97	305216.20	1.00	165.00	0.00	0.00	0.00			
22	A	451052.62	305234.21	1.00	114.00	0.00	0.00	0.00			
23	A	451061.34	305254.64	1.00	150.00	0.00	0.00	0.00			
24	A	451065.95	305268.85	1.00	189.00	0.00	0.00	0.00			
25	A	451066.88	305194.09	1.00	10.00	0.00	0.00	0.00			
26	A	451069.79	305182.67	1.00	17.00	0.00	0.00	0.00			
27	A	451075.20	305169.10	1.00	42.00	0.00	0.00	0.00			
28	A	451088.13	305157.24	1.00	61.00	0.00	0.00	0.00			
29	A	451136.65	305158.33	1.00	99.00	0.00	0.00	0.00			
30	A	451120.89	305156.95	1.00	116.00	0.00	0.00	0.00			
31	A	451172.51	305164.63	1.00	103.00	0.00	0.00	0.00			
32	A	451192.29	305176.44	1.00	302.00	0.00	0.00	0.00			
33	A	451216.19	305181.63	1.00	99.00	0.00	0.00	0.00			
34	A	451261.20	305236.72	1.00	170.00	0.00	0.00	0.00			
35	A	451252.80	305214.11	1.00	134.00	0.00	0.00	0.00			
36	A	451242.76	305203.21	1.00	143.00	0.00	0.00	0.00			
37	A	451232.14	305191.62	1.00	68.00	0.00	0.00	0.00			
38	A	451272.97	305276.56	1.00	159.00	0.00	0.00	0.00			
39	A	451276.62	305289.60	1.00	169.00	0.00	0.00	0.00			
40	A	451279.84	305303.43	1.00	162.00	0.00	0.00	0.00			
41	A	451090.65	305359.53	1.00	172.00	0.00	0.00	0.00			



Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
42	A	451086.53	305343.52	1.00	161.00	0.00	0.00	0.00			
43	A	451081.69	305323.77	1.00	157.00	0.00	0.00	0.00			
44	A	451075.96	305218.18	1.00	0.00	0.00	0.00	0.00			
45	A	451080.55	305236.60	1.00	347.00	0.00	0.00	0.00			
46	A	451080.94	305251.36	1.00	345.00	0.00	0.00	0.00			
47	A	451087.07	305266.90	1.00	276.00	0.00	0.00	0.00			
48	A	451116.28	305359.68	1.00	0.00	0.00	0.00	0.00			
49	A	451111.48	305343.45	1.00	338.00	0.00	0.00	0.00			
50	A	451106.62	305327.00	1.00	347.00	0.00	0.00	0.00			
51	A	451102.50	305312.86	1.00	327.00	0.00	0.00	0.00			
52	A	451265.90	305360.10	1.00	199.00	0.00	0.00	0.00			
53	A	451272.39	305347.19	1.00	150.00	0.00	0.00	0.00			
54	A	451279.99	305329.84	1.00	204.00	0.00	0.00	0.00			
55	A	451251.91	305399.17	1.00	202.00	0.00	0.00	0.00			
56	A	451245.78	305413.57	1.00	211.00	0.00	0.00	0.00			
57	A	451223.73	305431.30	1.00	252.00	0.00	0.00	0.00			
58	A	451196.01	305433.83	1.00	268.00	0.00	0.00	0.00			
59	A	451174.98	305436.30	1.00	271.00	0.00	0.00	0.00			
60	A	451125.17	305386.29	1.00	346.00	0.00	0.00	0.00			
61	A	451129.42	305400.67	1.00	345.00	0.00	0.00	0.00			
62	A	451132.84	305416.68	1.00	339.00	0.00	0.00	0.00			
63	A	451138.43	305431.23	1.00	355.00	0.00	0.00	0.00			



Horizontal Illuminance (lux)

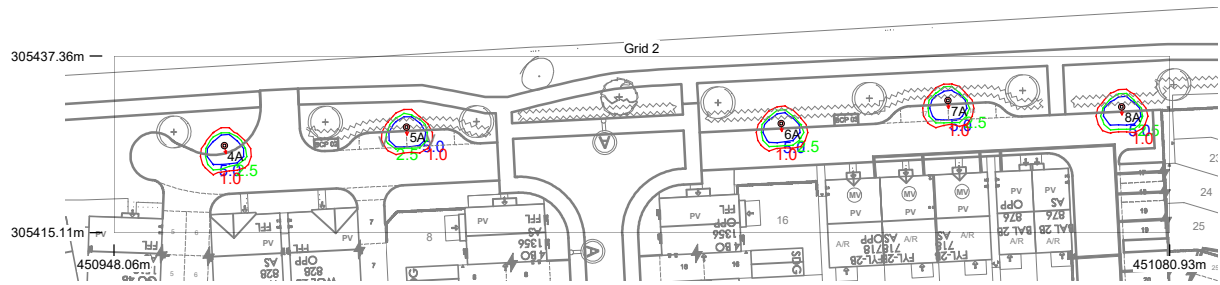
Grid 1





Horizontal Illuminance (lux)

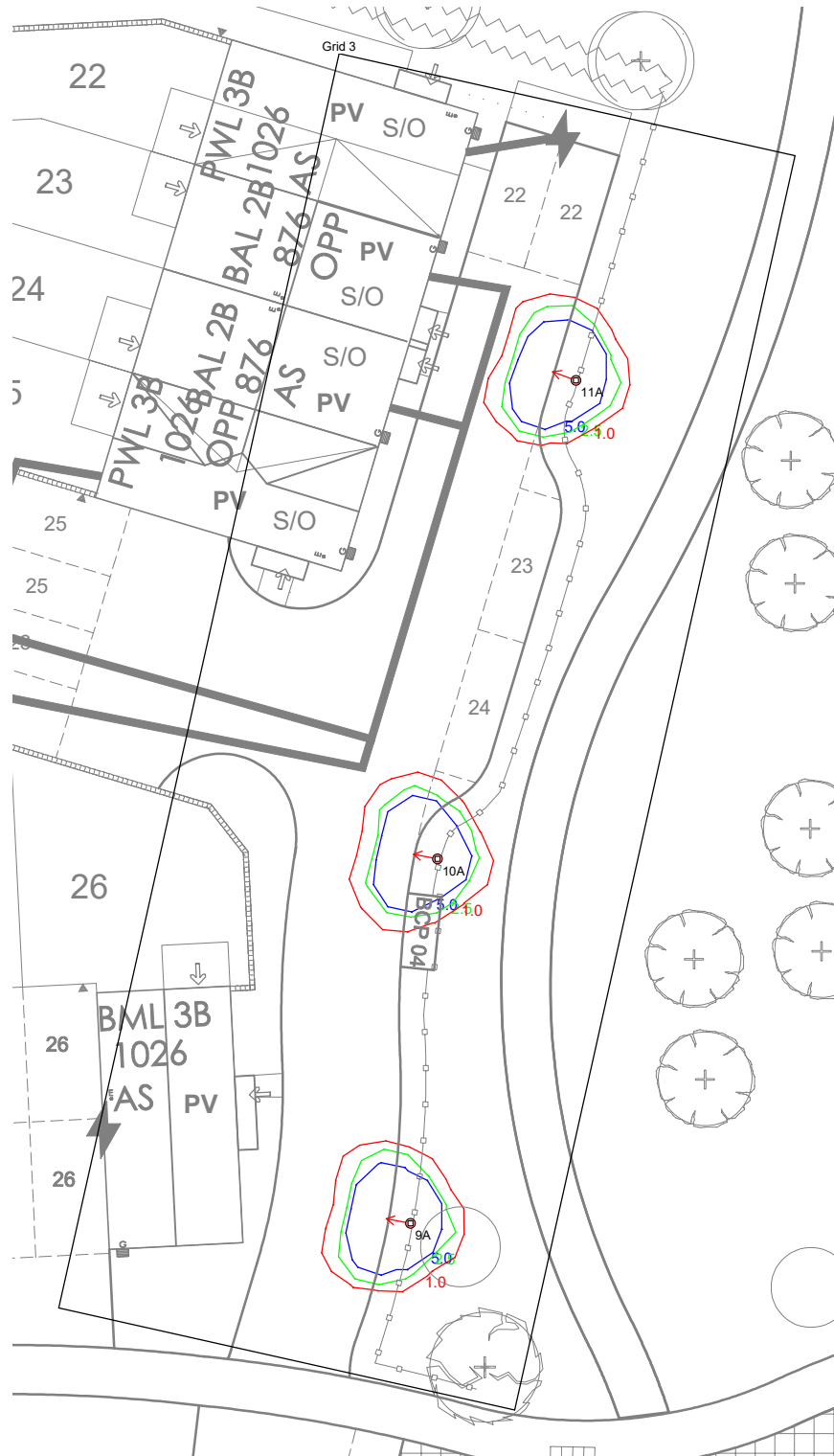
Grid 2





Horizontal Illuminance (lux)

Grid 3





Horizontal Illuminance (lux)

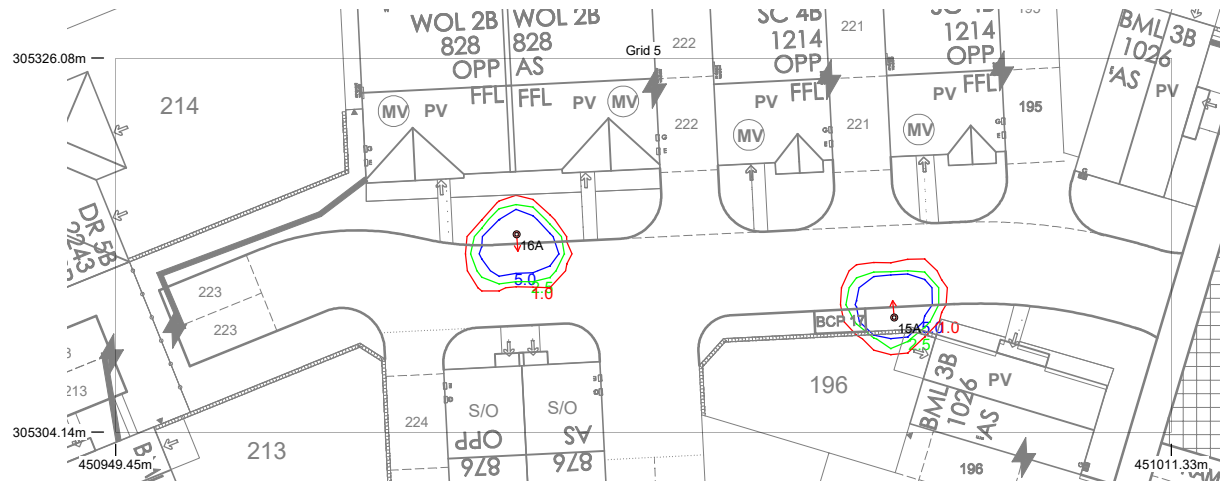
Grid 4





Horizontal Illuminance (lux)

Grid 5





Horizontal Illuminance (lux)

Grid 7





Horizontal Illuminance (lux)

Grid 8





Horizontal Illuminance (lux)

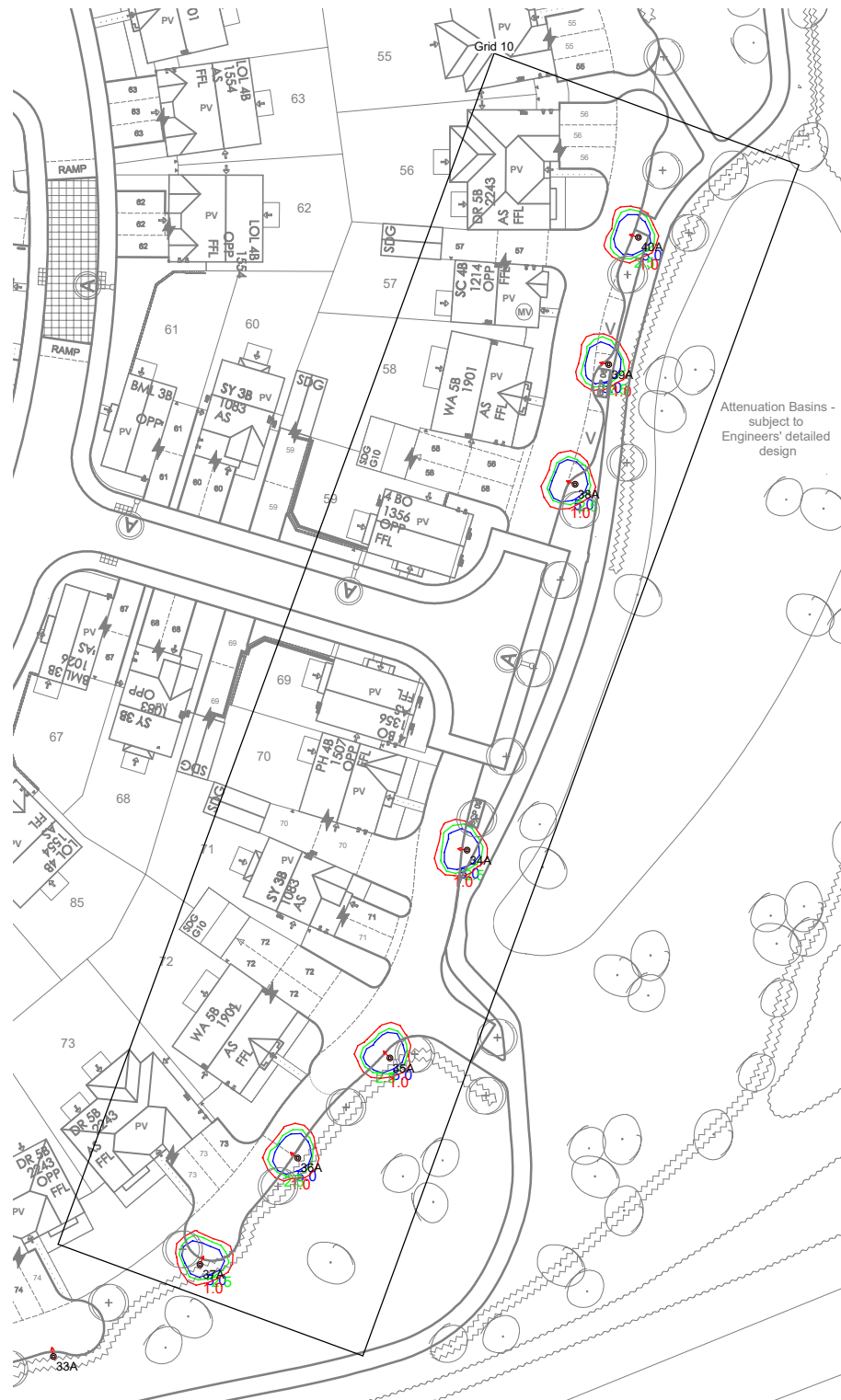
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Horizontal Illuminance (lux)

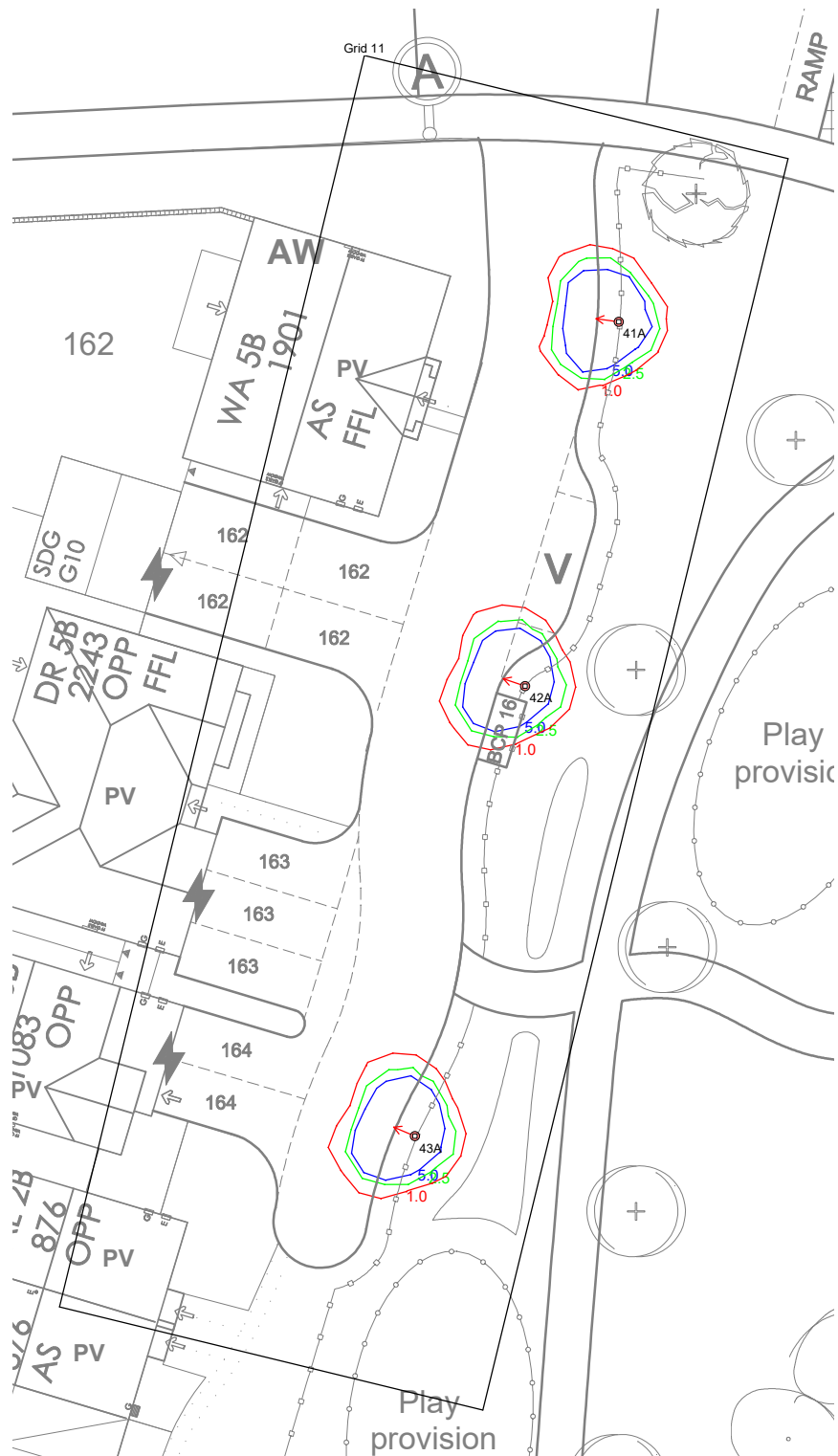
Grid 10





Horizontal Illuminance (lux)

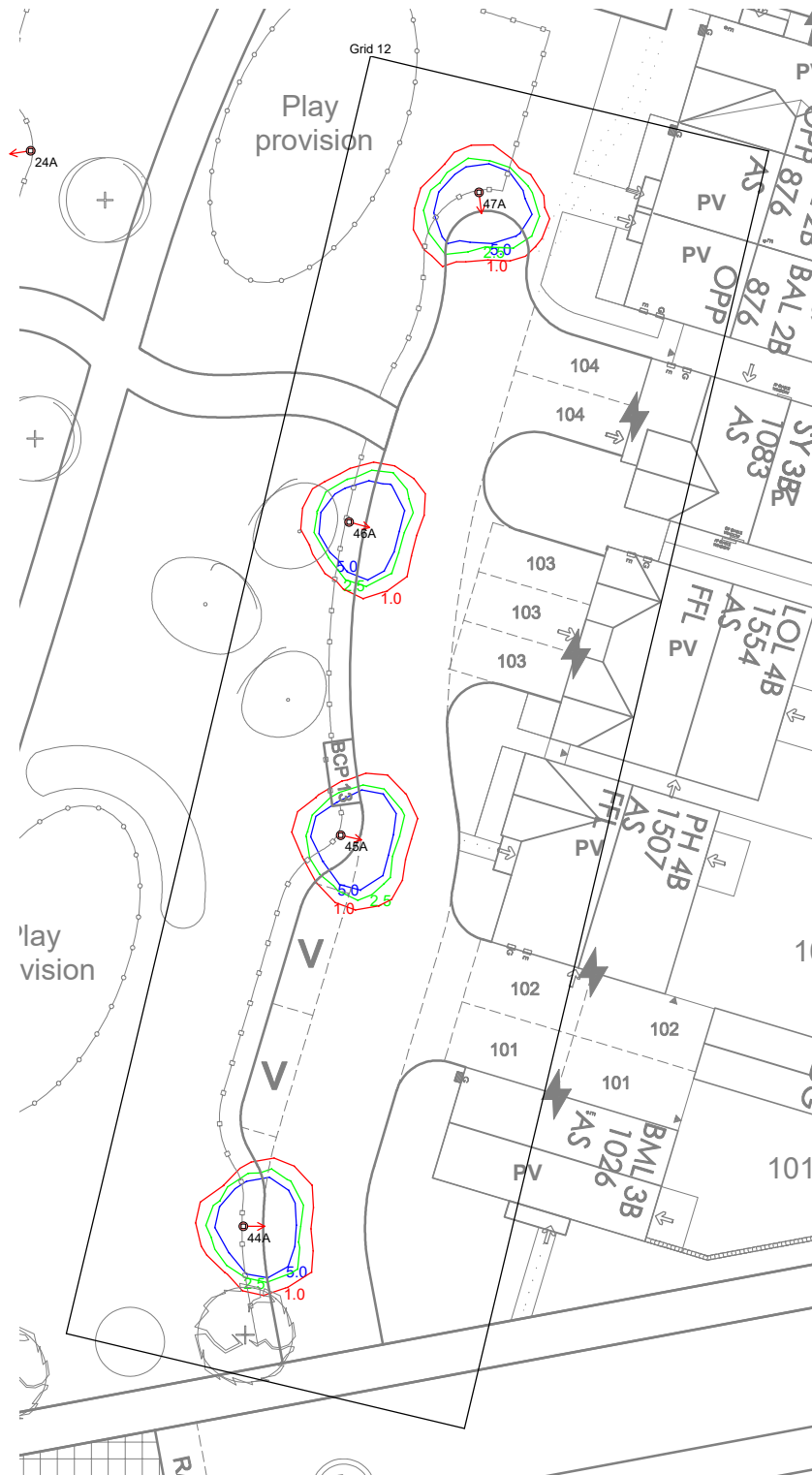
Grid 11





Horizontal Illuminance (lux)

Grid 12





Horizontal Illuminance (lux)

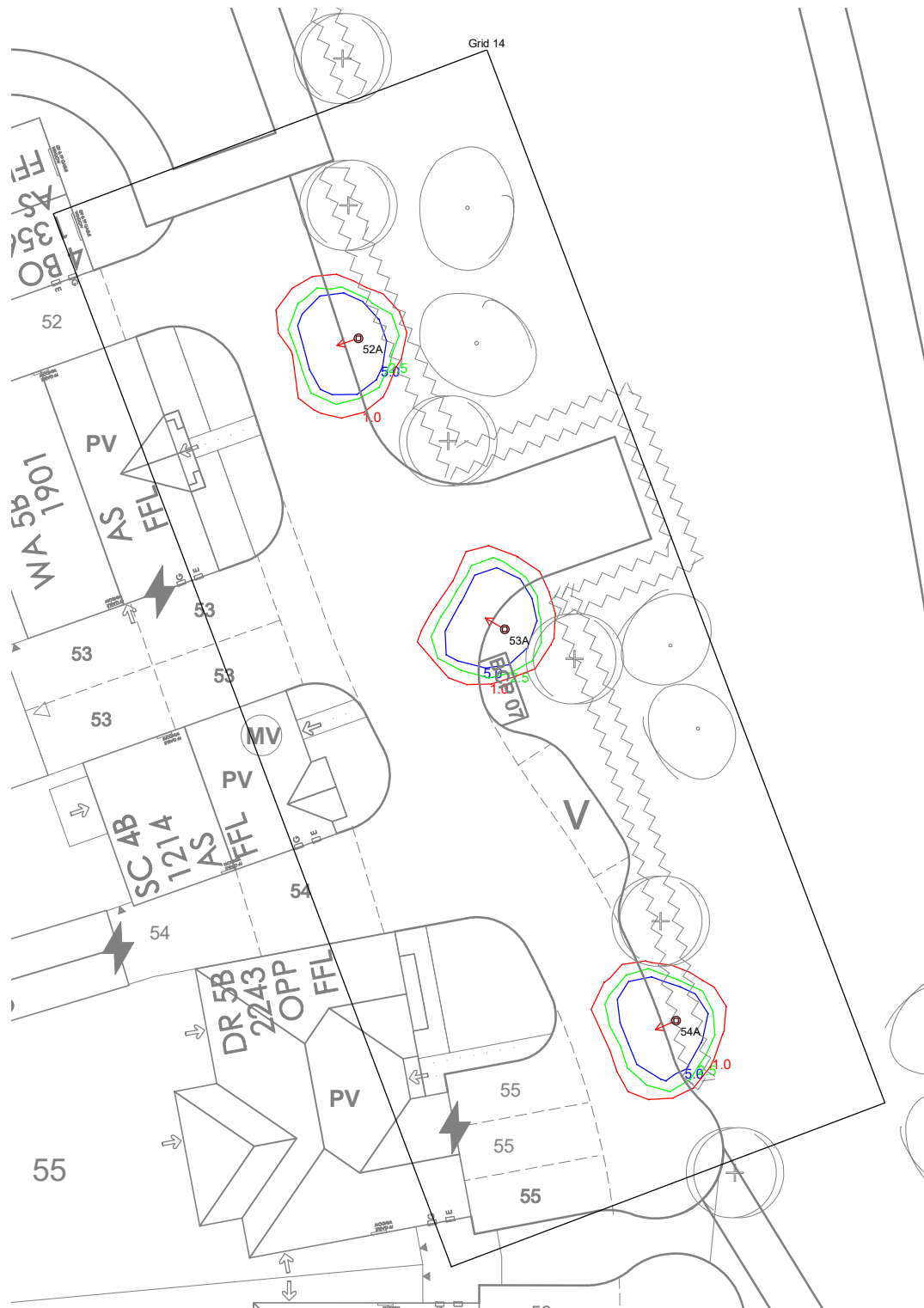
Grid 13





Horizontal Illuminance (lux)

Grid 14





Horizontal Illuminance (lux)

Grid 15





Horizontal Illuminance (lux)

Grid 16

