DATE:	**12 June 2024**
DESIGNER:	**EDS**
PROJECT No:	**588**
PROJECT NAME:	**Himley Village S278 & Primary Infrastructure (Rev C)**

LIGHTING REALITY

Main Infrastructure RM - S278 & Primary infrastructure S38

Main road designed to M4
Junction with new access designed to C3
5 second stopping distance 133 (60mph limit)

Main access Roads designed to P3
Side Roads designed to P4

Rev B - Updated base layout

Rev C - Updated base layout

Outdoor Lighting Report

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	455381.01	223088.88	122.10	52.59	1.49	1.46
2	Grid 2	455496.16	223047.73	55.17	48.33	1.49	1.34
3	Grid 3	455548.20	223029.10	242.93	40.58	1.50	1.45
4	Grid 4	455777.36	222947.72	55.10	43.20	1.49	1.49
5	Grid 5	455829.51	222929.15	305.52	40.29	1.50	1.49
6	Grid 6	455393.21	223135.79	181.75	306.42	1.49	1.49
7	Grid 7	455537.72	223409.86	211.06	166.96	1.50	1.49
8	Grid 8	455799.25	222979.72	42.11	188.81	1.45	1.50
9	Grid 9	455615.51	223220.87	204.47	42.95	1.49	1.48
10	Grid 10	455812.37	223159.45	307.67	62.05	1.49	1.48
11	Grid 11	455632.03	223261.15	160.90	108.14	1.49	1.48
12	Grid 12	455561.65	223067.52	242.93	19.00	1.50	1.46
13	Grid 13	456099.53	222896.58	238.23	59.81	1.50	1.50
14	Grid 14	455842.94	222967.10	305.53	19.17	1.50	1.47

Luminaires

Luminaire A Data

Supplier	D W Windsor
Type	KIRIUM PRO2 48LED 3k A2 650mA UMSU G 42 0083 0000 100
Lamp(s)	48 x 3k LED
Lamp Flux (klm)	13.33
File Name	KIRIUM PRO2 48LED 3k A2_650mA UMS UG 42 0083 0000 100.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	637.0, 59.7, 0.0
No. in Project	20

Luminaire B Data

Supplier	D W Windsor
Type	KIRIUM PRO1 32LED 3k C2 800mA UMSU G 42 0070 0000 100
Lamp(s)	32 x 3k LED
Lamp Flux (klm)	10.08
File Name	KIRIUM PRO1 32LED 3k C2_800mA UMS UG 42 0070 0000 100.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	794.0, 43.8, 0.0
No. in Project	37

Luminaire C Data

Supplier	D W Windsor
Type	KIRIUM PRO MINI 16LED 3k D4 550mA U MSUG 42 0025 0000 100
Lamp(s)	16 x 3k LED
Lamp Flux (klm)	3.75
File Name	KIRIUM PRO MINI 16LED 3k D4_550mA U MSUG 42 0025 0000 100.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	588.4, 134.0, 0.0
No. in Project	7

Luminaire D Data

Supplier	D W Windsor
Type	KIRIUM PRO MINI 8LED 3k A1 500mA UM SUG 42 0012 0000 100
Lamp(s)	8 x 3k LED
Lamp Flux (klm)	1.79
File Name	KIRIUM PRO MINI 8LED 3k A1_500mA U MSUG 42 0012 0000 100.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	741.0, 276.2, 0.0
No. in Project	24

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	455413.14	223112.30	10.00	253.00	0.00	0.00	0.50			
2	A	455459.57	223095.62	10.00	250.00	0.00	0.00	0.50			
3	A	455499.07	223082.77	10.00	252.00	0.00	0.00	0.50			
4	A	455528.21	223059.59	10.00	73.00	0.00	0.00	0.50			
5	A	455570.09	223060.81	10.00	250.00	0.00	0.00	0.50			
6	A	455530.05	223084.09	10.00	337.00	0.00	0.00	0.50			
7	A	455609.51	223043.92	10.00	246.00	0.00	0.00	0.50			
8	A	455650.38	223027.70	10.00	249.00	0.00	0.00	0.50			
9	A	455691.84	223012.93	10.00	247.00	0.00	0.00	0.50			
10	A	455733.04	222997.97	10.00	247.00	0.00	0.00	0.50			
11	A	455773.14	222983.84	10.00	250.00	0.00	0.00	0.50			
12	A	455813.06	222958.25	10.00	70.00	0.00	0.00	0.50			
13	A	455851.84	222958.03	10.00	250.00	0.00	0.00	0.50			
14	B	455812.08	222983.80	8.00	351.00	0.00	0.00	0.50			
15	A	455890.46	222942.02	10.00	248.00	0.00	0.00	0.50			
16	A	455928.40	222928.27	10.00	250.00	0.00	0.00	0.50			
17	A	455967.95	222913.86	10.00	248.00	0.00	0.00	0.50			
18	A	456006.99	222899.84	10.00	249.00	0.00	0.00	0.50			
19	A	456046.88	222885.43	10.00	245.00	0.00	0.00	0.50			
20	A	456080.66	222873.06	10.00	248.00	0.00	0.00	0.50			
Ex86	A	456110.81	222853.51	10.00	70.00	0.00	0.00	0.50			
22	B	455537.71	223116.99	8.00	340.00	0.00	0.00	0.50			
23	B	455552.64	223154.16	8.00	339.00	0.00	0.00	0.50			
24	B	455563.99	223187.19	8.00	339.00	0.00	0.00	0.50			
25	B	455575.03	223218.39	8.00	339.00	0.00	0.00	0.50			
26	B	455586.70	223251.77	8.00	339.00	0.00	0.00	0.50			
27	B	455623.07	223282.19	8.00	159.00	0.00	0.00	0.50			
28	B	455620.13	223328.05	8.00	339.00	0.00	0.00	0.50			
29	B	455636.85	223364.37	8.00	334.00	0.00	0.00	0.50			
30	B	455581.63	223302.56	8.00	67.00	0.00	0.00	0.50			
31	B	455552.84	223334.65	8.00	242.00	0.00	0.00	0.50			
32	B	455507.53	223334.18	8.00	67.00	0.00	0.00	0.50			
33	B	455633.45	223249.21	8.00	249.00	0.00	0.00	0.50			
34	B	455652.91	223399.52	8.00	336.00	0.00	0.00	0.50			
35	B	455676.26	223429.41	8.00	315.00	0.00	0.00	0.50			
36	B	455717.54	223426.19	8.00	115.00	0.00	0.00	0.50			

Layout Continued

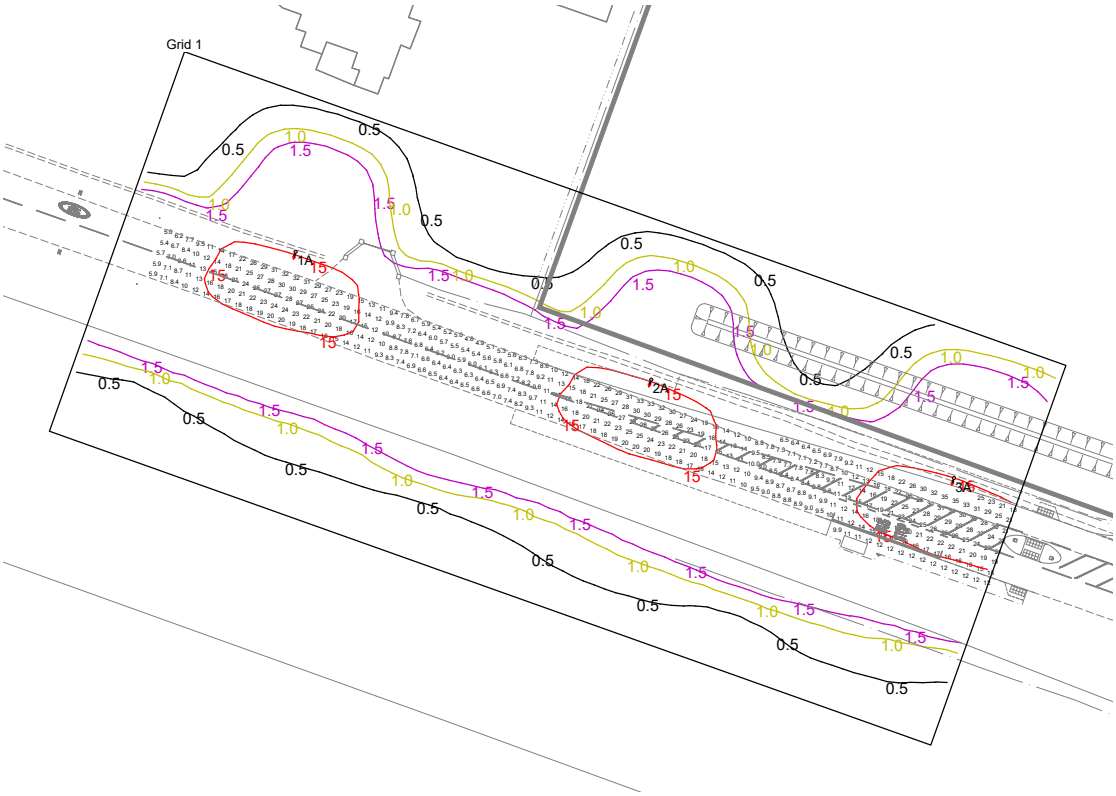
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	B	455745.29	223462.25	8.00	293.00	0.00	0.00	0.50			
38	B	455677.56	223454.89	8.00	44.00	0.00	0.00	0.50			
39	B	455655.47	223489.15	8.00	238.00	0.00	0.00	0.50			
40	B	455623.22	223509.30	8.00	232.00	0.00	0.00	0.50			
41	B	455669.48	223235.66	8.00	249.00	0.00	0.00	0.50			
42	B	455707.95	223221.02	8.00	249.00	0.00	0.00	0.50			
43	B	455746.80	223206.73	8.00	249.00	0.00	0.00	0.50			
44	B	455780.80	223194.07	8.00	259.00	0.00	0.00	0.50			
45	B	455845.96	223186.05	8.00	265.00	0.00	0.00	0.50			
46	B	455811.30	223189.76	8.00	262.00	0.00	0.00	0.50			
47	C	455767.17	223214.10	6.00	161.00	0.00	0.00	0.40			
48	B	455821.53	223065.04	8.00	355.00	0.00	0.00	0.50			
49	B	455827.78	223106.40	8.00	353.00	0.00	0.00	0.50			
50	B	455852.74	223146.68	8.00	177.00	0.00	0.00	0.50			
51	B	455816.10	223024.70	8.00	351.00	0.00	0.00	0.50			
52	B	455883.42	223182.99	8.00	273.00	0.00	0.00	0.50			
53	B	455925.90	223181.52	8.00	264.00	0.00	0.00	0.50			
54	B	455966.25	223175.52	8.00	260.00	0.00	0.00	0.50			
55	B	456005.51	223169.58	8.00	259.00	0.00	0.00	0.50			
56	B	456045.70	223163.25	8.00	255.00	0.00	0.00	0.50			
57	B	456081.11	223145.96	8.00	121.00	0.00	0.00	0.50			
58	B	456108.50	223170.41	8.00	141.00	0.00	0.00	0.50			
59	C	455778.21	223263.13	6.00	257.00	0.00	0.00	0.40			
60	C	455776.49	223240.34	6.00	166.00	0.00	0.00	0.40			
61	C	455743.20	223275.59	6.00	251.00	0.00	0.00	0.40			
62	C	455703.40	223281.23	6.00	70.00	0.00	0.00	0.40			
63	C	455691.77	223293.78	6.00	332.00	0.00	0.00	0.40			
64	C	455707.13	223331.09	6.00	330.00	0.00	0.00	0.40			
65	D	455567.68	223075.55	5.00	252.00	0.00	0.00	0.40			
66	D	455606.91	223062.01	5.00	252.00	0.00	0.00	0.40			
67	D	455644.05	223049.22	5.00	252.00	0.00	0.00	0.40			
68	D	455682.99	223035.22	5.00	252.00	0.00	0.00	0.40			
69	D	455723.10	223020.75	5.00	252.00	0.00	0.00	0.40			
70	D	455763.88	223006.08	5.00	252.00	0.00	0.00	0.40			
71	D	455795.49	222994.68	5.00	252.00	0.00	0.00	0.40			
72	D	455843.78	222977.18	5.00	252.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
73	D	455876.78	222965.32	5.00	252.00	0.00	0.00	0.40			
74	D	455916.94	222950.72	5.00	252.00	0.00	0.00	0.40			
75	D	455956.95	222936.45	5.00	252.00	0.00	0.00	0.40			
76	D	455995.56	222922.43	5.00	252.00	0.00	0.00	0.40			
77	D	456036.46	222908.24	5.00	252.00	0.00	0.00	0.40			
78	D	456074.80	222892.44	5.00	225.00	0.00	0.00	0.40			
79	D	456082.86	222905.89	5.00	347.00	0.00	0.00	0.40			
80	D	456091.91	222941.90	5.00	346.00	0.00	0.00	0.40			
81	D	456099.53	222972.66	5.00	350.00	0.00	0.00	0.40			
82	D	456098.58	222995.82	5.00	5.00	0.00	0.00	0.40			
83	D	456105.54	223020.73	5.00	172.00	0.00	0.00	0.40			
84	D	456112.49	223050.12	5.00	167.00	0.00	0.00	0.40			
85	D	456118.82	223076.97	5.00	169.00	0.00	0.00	0.40			
86	D	456124.73	223102.08	5.00	170.00	0.00	0.00	0.40			
87	D	456124.04	223127.79	5.00	248.00	0.00	0.00	0.40			
88	D	456087.01	223133.69	5.00	69.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	15.83
Emin	4.83
Emax	34.73
Emin/Emax	0.14
Emin/Eav	0.31

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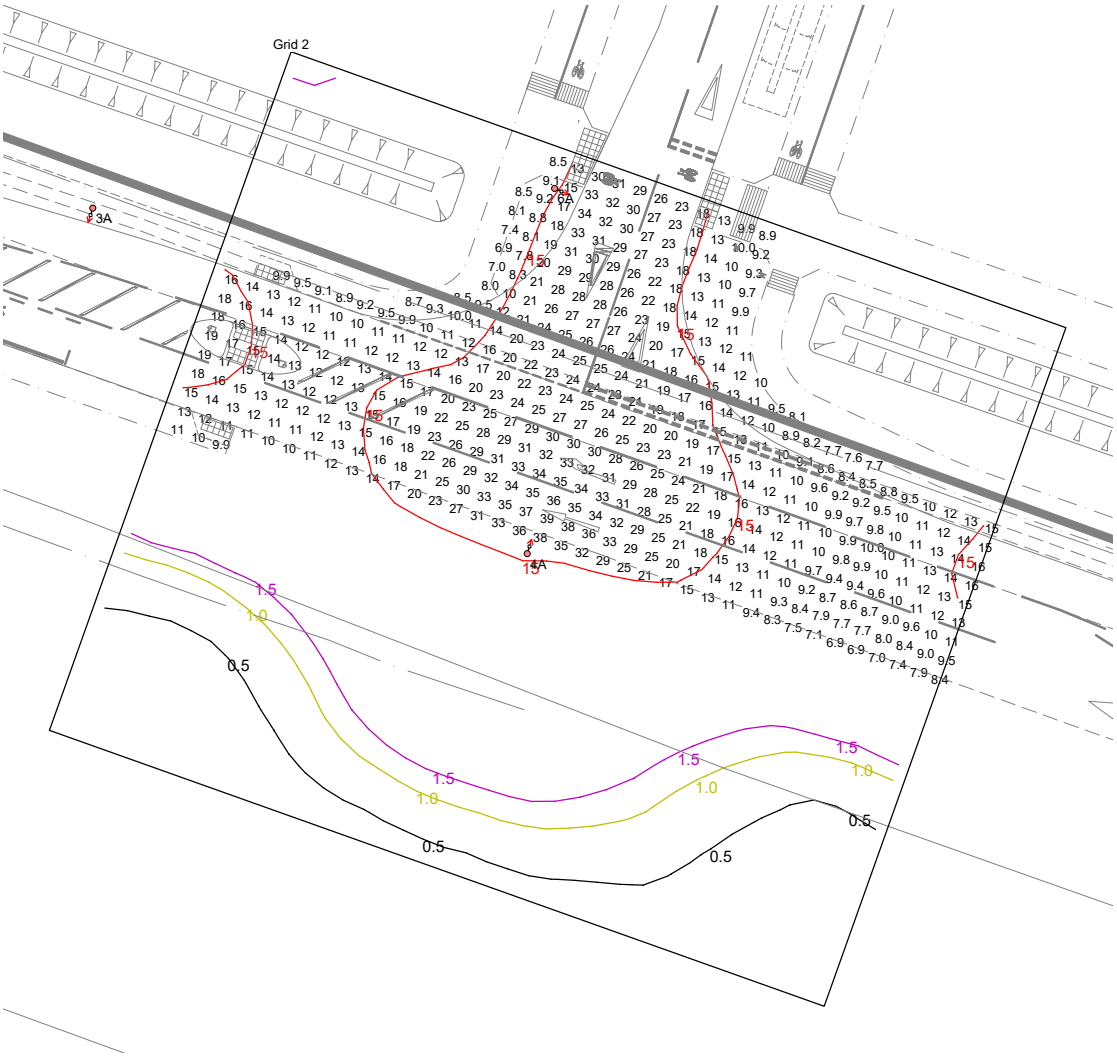
Horizontal Illuminance (lux)

Grid 2



Results

Eav	17.36
Emin	6.89
Emax	38.54
Emin/Emax	0.18
Emin/Eav	0.40

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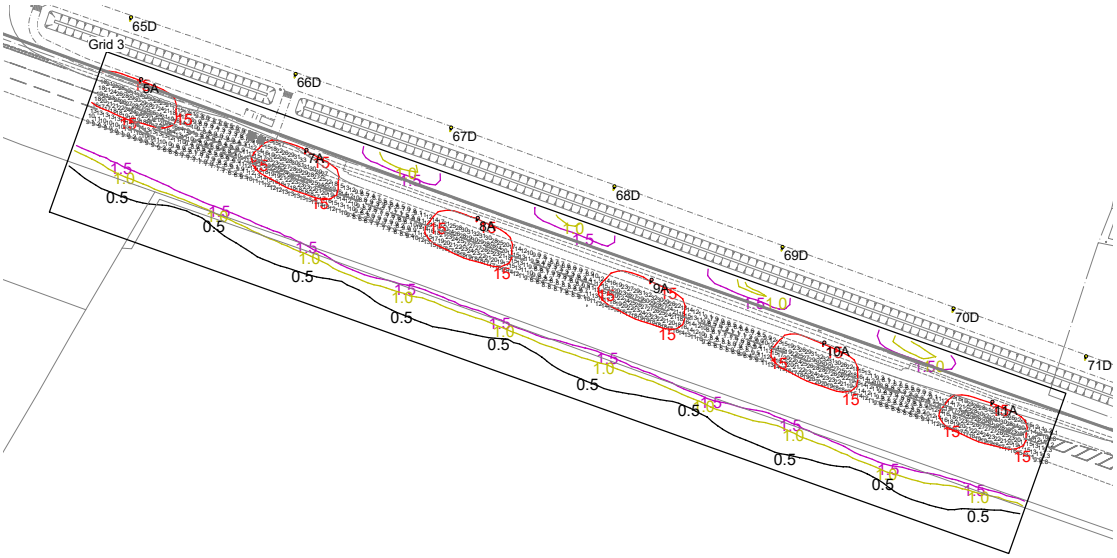
Horizontal Illuminance (lux)

Grid 3



Results

Eav	15.53
Emin	6.40
Emax	33.37
Emin/Emax	0.19
Emin/Eav	0.41

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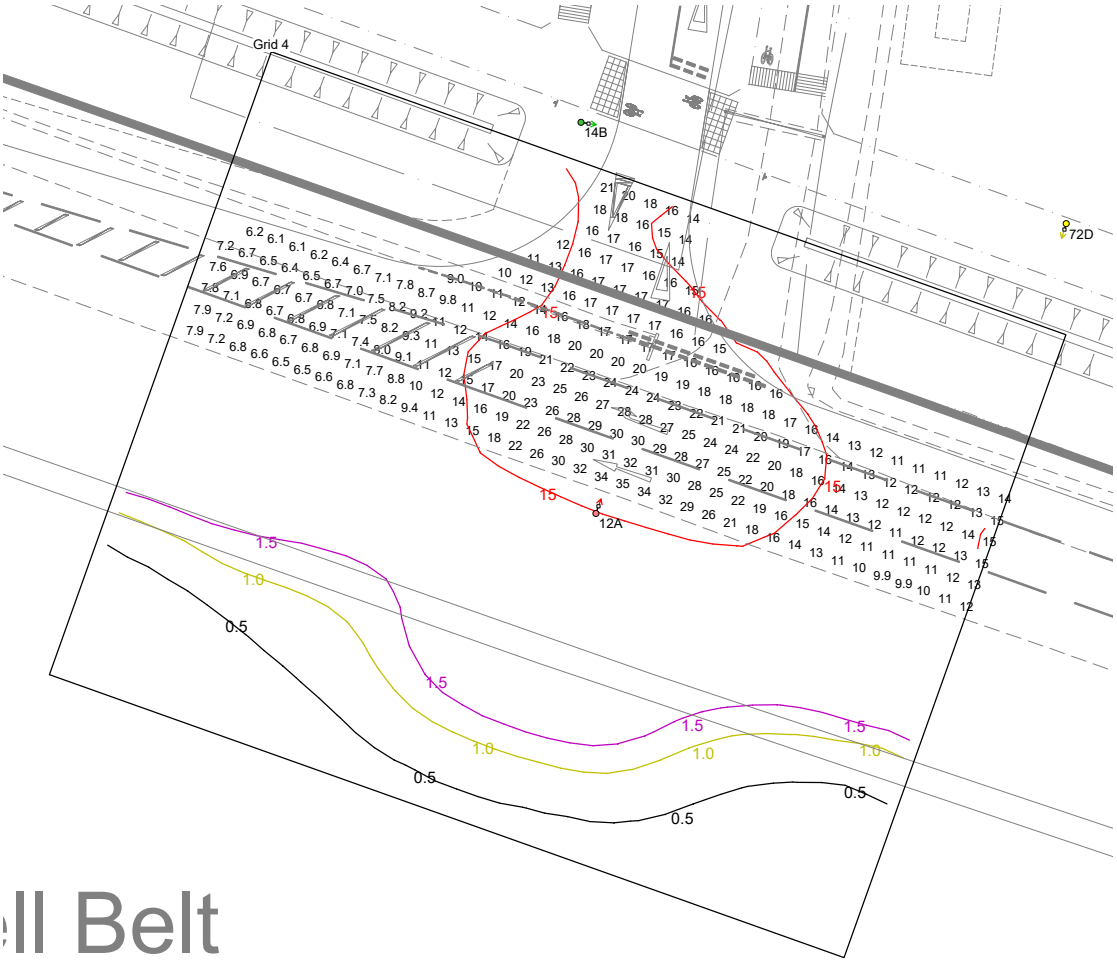
Horizontal Illuminance (lux)

Grid 4



ll Belt

Results

Eav	15.38
Emin	6.10
Emax	34.65
Emin/Emax	0.18
Emin/Eav	0.40

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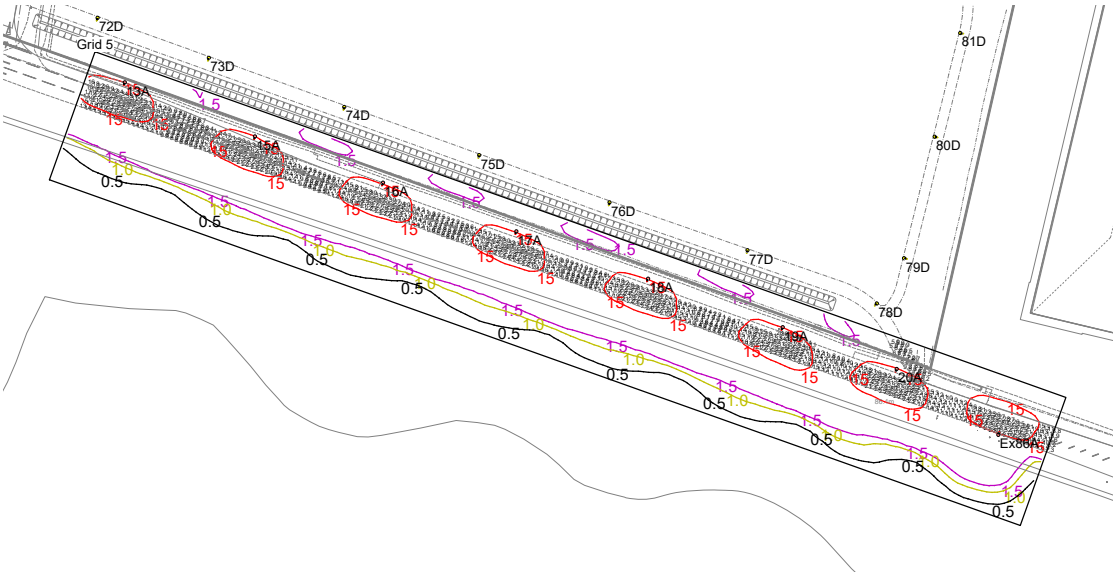
Horizontal Illuminance (lux)

Grid 5



Results

Eav	17.47
Emin	5.52
Emax	35.43
Emin/Emax	0.16
Emin/Eav	0.32

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Horizontal Illuminance (lux)

Grid 6

Results

Eav	7.68
Emin	1.52
Emax	29.06
Emin/Emax	0.05
Emin/Eav	0.20

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Horizontal Illuminance (lux)

Grid 7

Results

Eav	7.77
Emin	1.70
Emax	26.61
Emin/Emax	0.06
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 8

Results

Eav	7.88
Emin	1.65
Emax	26.86
Emin/Emax	0.06
Emin/Eav	0.21

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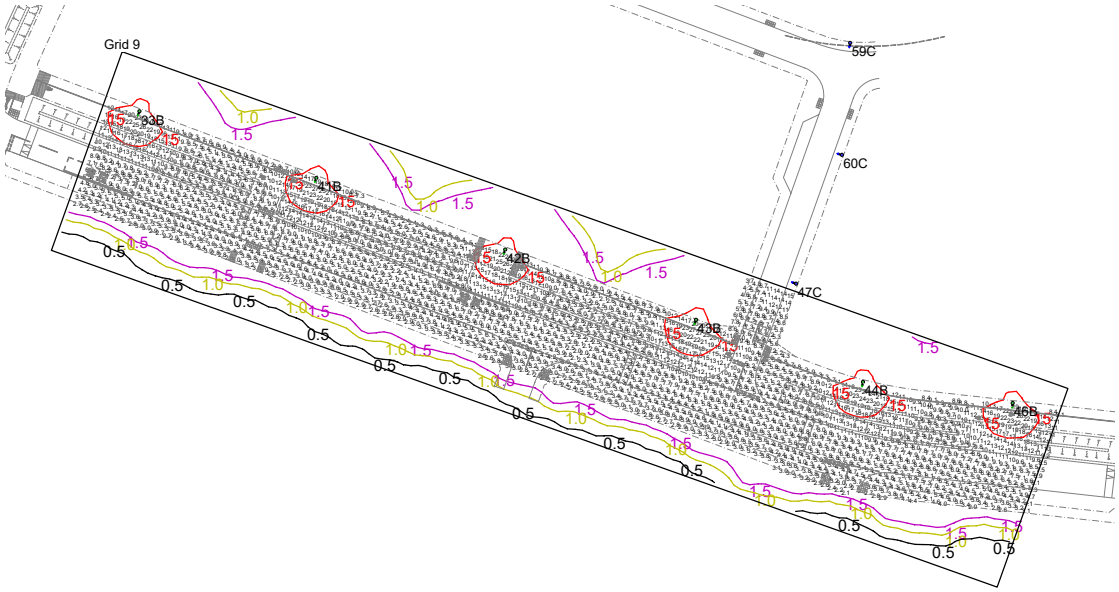
Horizontal Illuminance (lux)

Grid 9



Results

Eav	7.67
Emin	1.90
Emax	26.87
Emin/Emax	0.07
Emin/Eav	0.25

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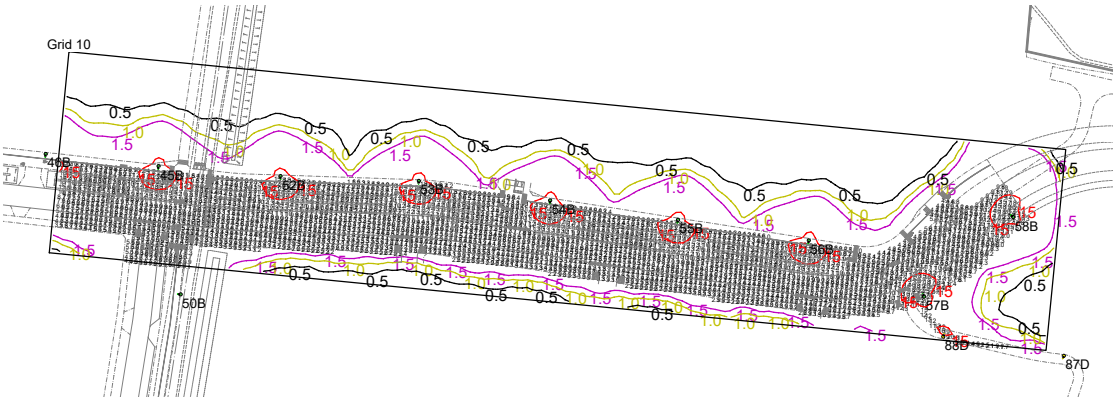
Horizontal Illuminance (lux)

Grid 10



Results

Eav	7.64
Emin	1.65
Emax	27.19
Emin/Emax	0.06
Emin/Eav	0.22

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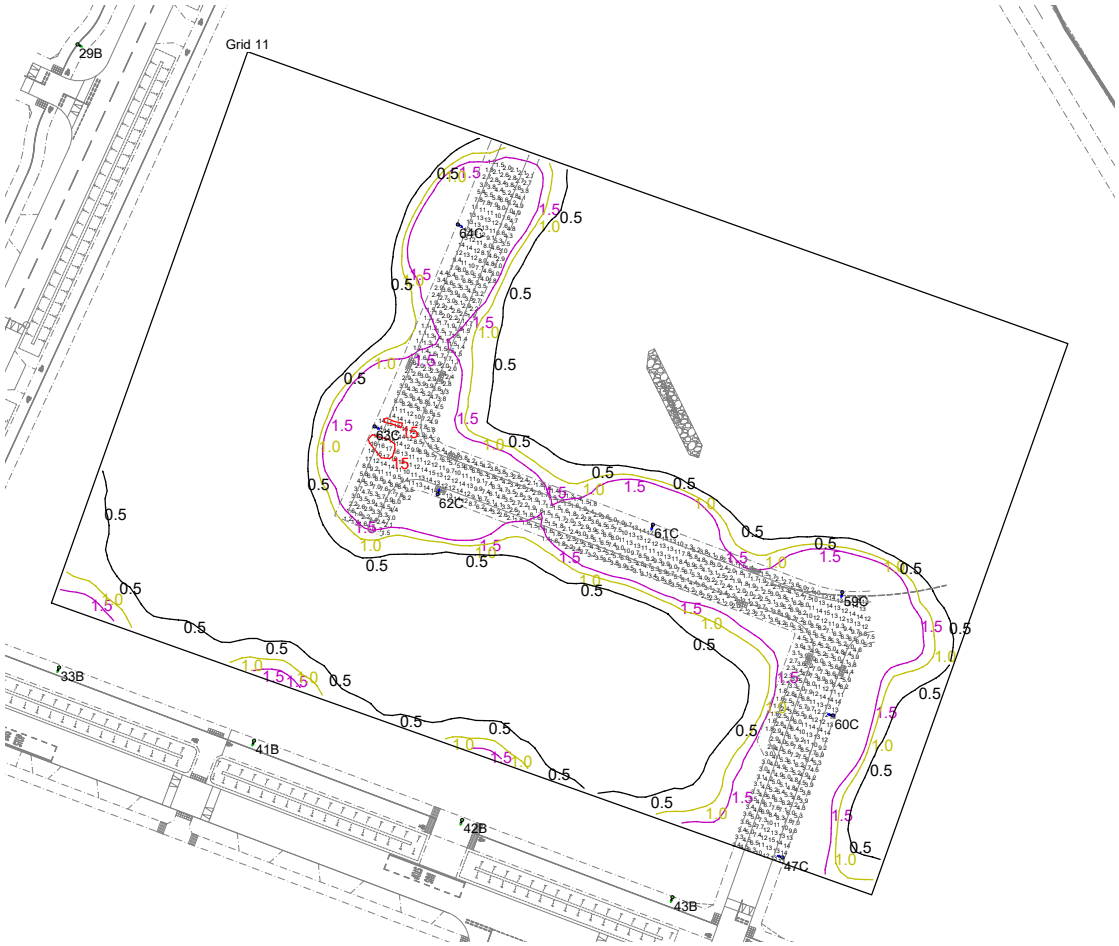
Horizontal Illuminance (lux)

Grid 11

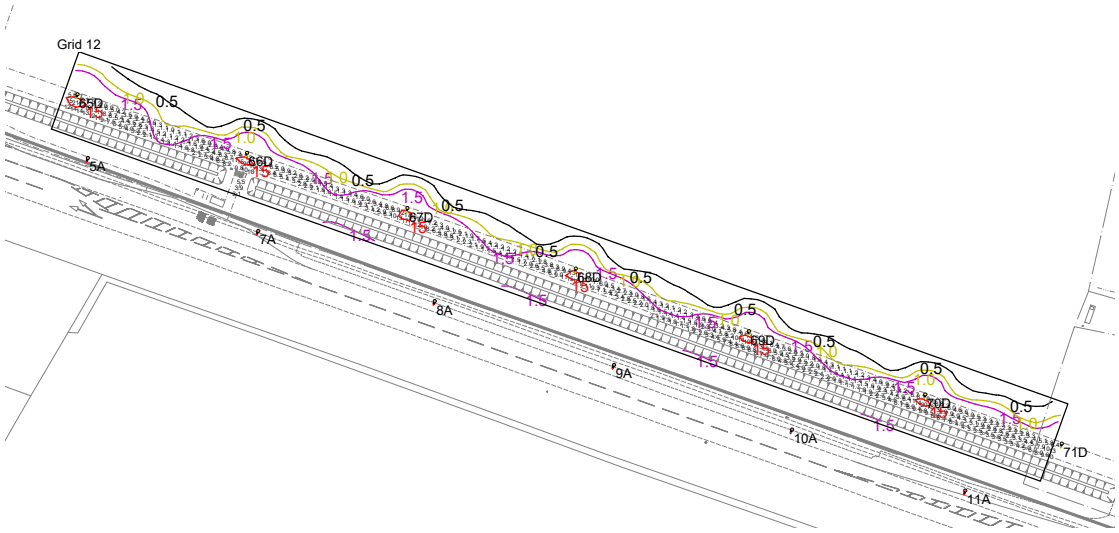


Results

Eav	6.23
Emin	1.09
Emax	16.74
Emin/Emax	0.06
Emin/Eav	0.17

Horizontal Illuminance (lux)

Grid 12



Results

Eav	5.14
Emin	1.03
Emax	21.62
Emin/Emax	0.05
Emin/Eav	0.20

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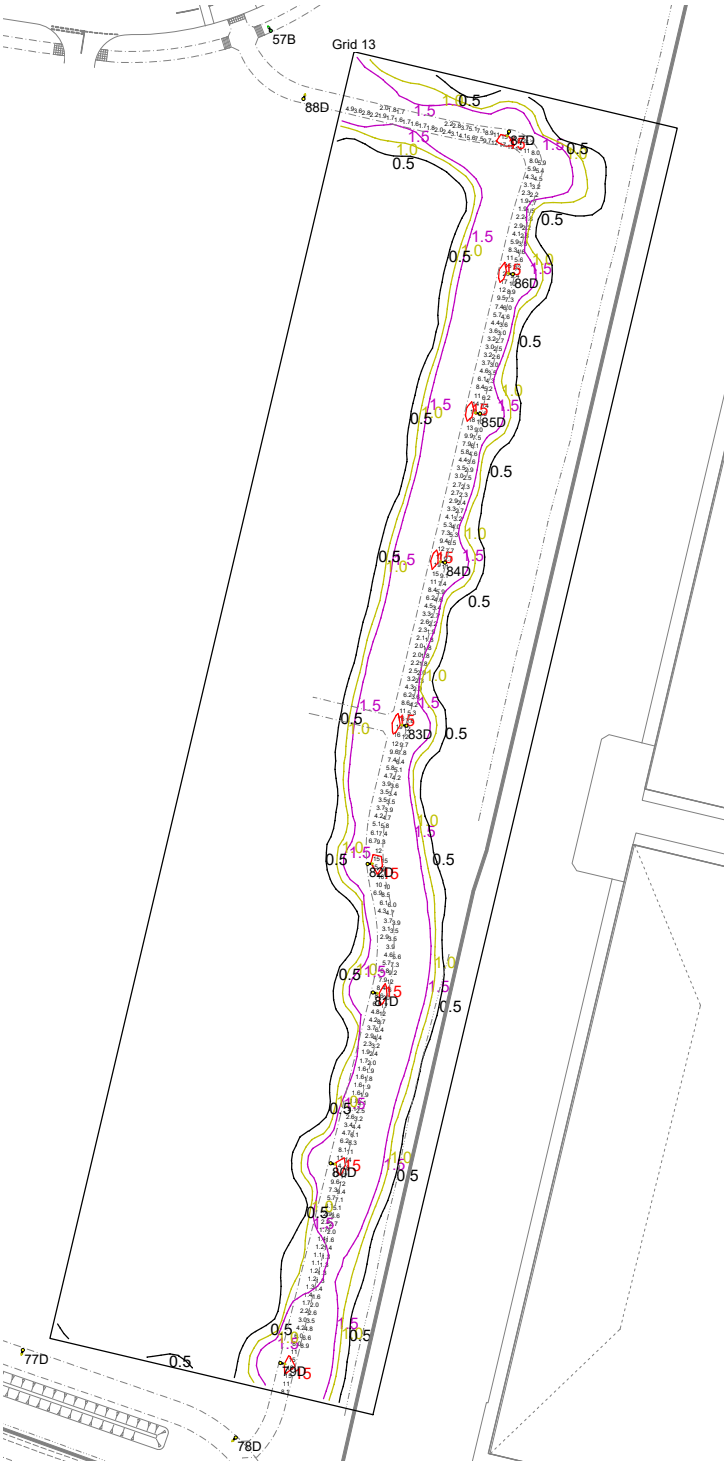
Horizontal Illuminance (lux)

Grid 13



Results

Eav	6.10
Emin	1.13
Emax	20.18
Emin/Emax	0.06
Emin/Eav	0.19

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