DATE: **30 August 2022**

DESIGNER: **Graham Sheehan +AN**

PROJECT No: **SES 11822-1 Access roads**

PROJECT NAME: **Hickeys Lane Ashbourne**

Designed in accordance with ISEN13201-2:2015 Class P4 for residential areas and P2

Access road / Dublin Road junctions meet recommendations of EN13201-2:2015 Category C4.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11 Bellevue Ind. Est.
Finglas
Dublin 11.
Email: graham@sabrelighting.ie
Ph: 01 8110875

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	221.85	530.93	357.89	169.17	1.50	1.50
2	Grid 2	611.03	197.31	324.87	153.00	1.50	1.50
3	Grid 3	579.73	615.72	158.63	108.00	1.50	1.50
4	Grid 4	894.30	269.17	78.00	99.00	1.50	1.50
5	Grid 5	723.59	621.98	78.00	99.00	1.50	1.50

Luminaires

Luminaire A Data

Supplier	
Type	E950-28-P4A-730-C600-16W
Lamp(s)	730N
Lamp Flux (klm)	2.25
File Name	E950-28-P4A-730-C0600-16W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	659.3, 183.1, 0.3
No. in Project	1

Luminaire D Data

Supplier	C U Phosco
Type	E950-28-R2P-730-SD0500-22W
Lamp(s)	730SA
Lamp Flux (klm)	2.94
File Name	E950-28-R2P-730-SD0500-22W.ies
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	673.5, 35.1, 3.8
No. in Project	11

Luminaire E Data

Supplier	
Type	2695 SNN-1C#
Lamp(s)	1 ST 150 17500 2000 E40
LampFlux(klm)/Colour	17.50 1950 / 23
File Name	Arc 2695 SNN 1C# 1 ST 150 17500 1950 E 40.ldt
Maintenance Factor	0.75
Imax70,80,90(cd/klm)	344.0, 99.0, 3.0
No. in Project	4

Luminaire F Data

Supplier	C U Phosco
Type	P863-128-F2B-730-W3-375-49W
Lamp(s)	730SS
Lamp Flux (klm)	6.71
File Name	P863-128-F2B-730-W3-375-49W.ies
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	461.8, 61.8, 0.8
No. in Project	18

Luminaire G Data

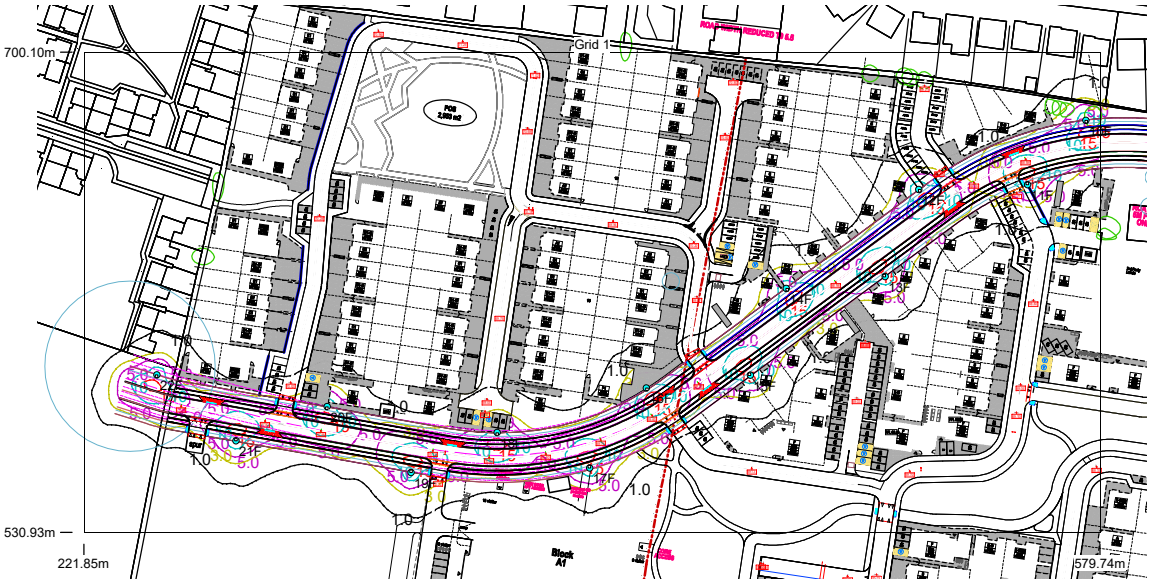
Supplier	_Historic Lanterns
Type	MA 50 POSN NO. 2 X
Lamp(s)	SOX+ 135W
Lamp Flux (klm)	20.80
File Name	TM00005.CIB
Maintenance Factor	0.75
Imax70,80,90(cd/klm)	273.0, 198.0, 52.0
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	622.67	244.70	6.00	123.00	5.00	0.00	0.40			
2	E	728.95	680.37	10.00	35.00	5.00	0.00	2.00			
3	F	731.58	641.05	8.00	105.00	0.00	0.00	0.50			
4	E	747.85	644.29	10.00	34.00	5.00	0.00	2.00			
5	E	763.92	613.72	10.00	23.00	5.00	0.00	2.00			
6	F	701.32	660.53	8.00	257.00	0.00	0.00	0.50			
7	F	669.60	648.56	8.00	85.00	0.00	0.00	0.50			
8	F	641.46	670.49	8.00	259.00	0.00	0.00	0.50			
9	F	608.47	657.87	8.00	82.00	0.00	0.00	0.50			
10	F	574.67	676.07	8.00	285.00	0.00	0.00	0.50			
11	F	554.14	653.40	8.00	105.00	0.00	0.00	0.50			
12	F	515.85	651.73	8.00	303.00	0.00	0.00	0.50			
13	F	503.98	621.08	8.00	128.00	0.00	0.00	0.50			
14	F	469.16	616.87	8.00	310.00	0.00	0.00	0.50			
15	F	456.52	586.34	8.00	124.00	0.00	0.00	0.50			
16	F	419.87	581.81	8.00	302.00	0.00	0.00	0.50			
17	F	399.92	553.67	8.00	105.00	0.00	0.00	0.50			
18	F	367.41	566.15	8.00	267.00	0.00	0.00	0.50			
19	F	337.04	552.08	8.00	83.00	0.00	0.00	0.50			
20	F	307.55	575.29	8.00	257.00	0.00	0.00	0.50			
21	F	275.35	563.21	8.00	85.00	0.00	0.00	0.50			
22	F	247.61	586.50	8.00	249.00	0.00	0.00	0.50			
23	G	914.22	335.35	10.00	31.00	5.00	0.00	2.00			
24	E	932.92	302.39	10.00	27.00	5.00	0.00	2.00			
25	D	917.42	312.25	6.00	121.00	0.00	0.00	0.40			
26	D	888.16	295.99	6.00	120.00	0.00	0.00	0.40			
27	D	861.10	278.07	6.00	121.00	0.00	0.00	0.40			
28	D	831.22	268.49	6.00	99.00	0.00	0.00	0.40			
29	D	799.06	264.43	6.00	107.00	0.00	0.00	0.40			
30	D	778.43	269.32	6.00	282.00	0.00	0.00	0.40			
31	D	781.21	257.29	6.00	182.00	0.00	0.00	0.40			
32	D	745.51	266.61	6.00	276.00	0.00	0.00	0.40			
33	D	712.34	261.40	6.00	279.00	0.00	0.00	0.40			
34	D	678.73	261.90	6.00	267.00	0.00	0.00	0.40			
35	D	644.48	261.98	6.00	269.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

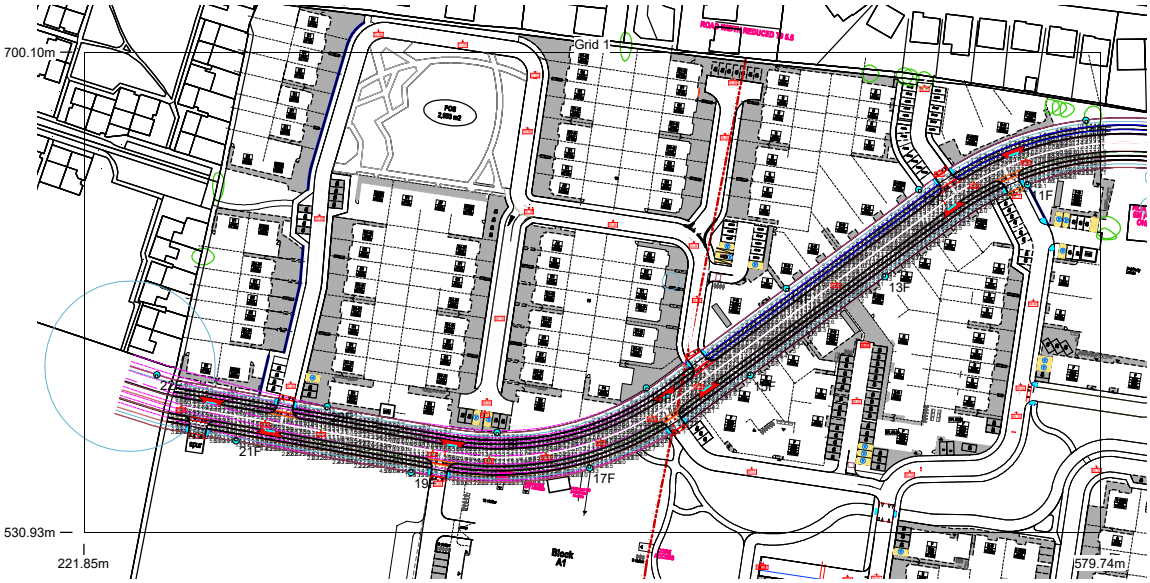


Results

Eav	7.35
Emin	1.66
Emax	16.25
Emin/Emax	0.10
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 1



Results

Eav	7.35
Emin	1.66
Emax	16.25
Emin/Emax	0.10
Emin/Eav	0.23

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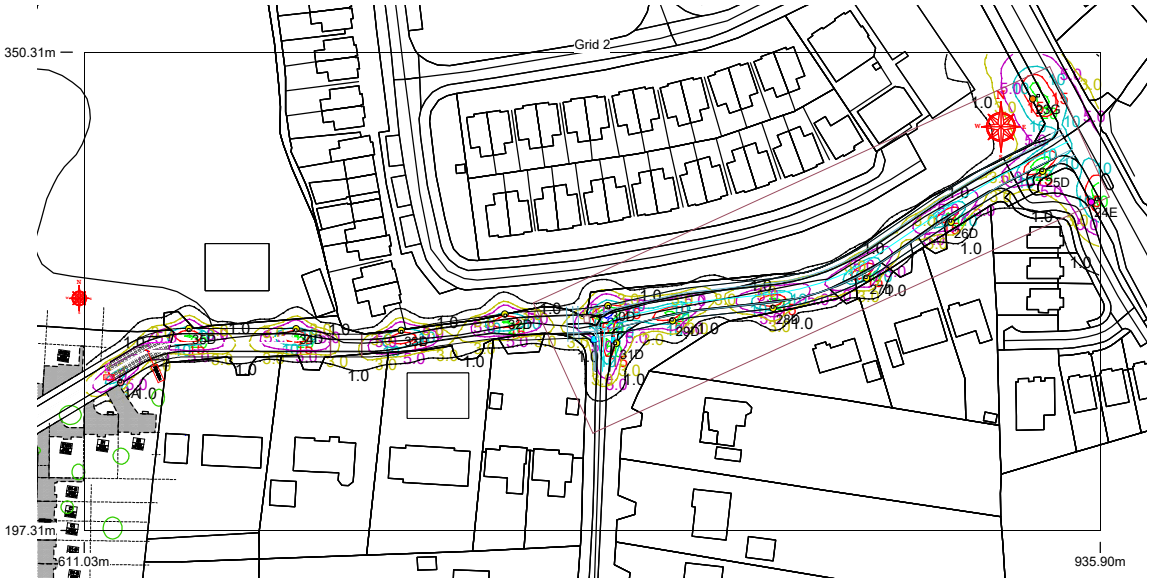
Horizontal Illuminance (lux)

Grid 2

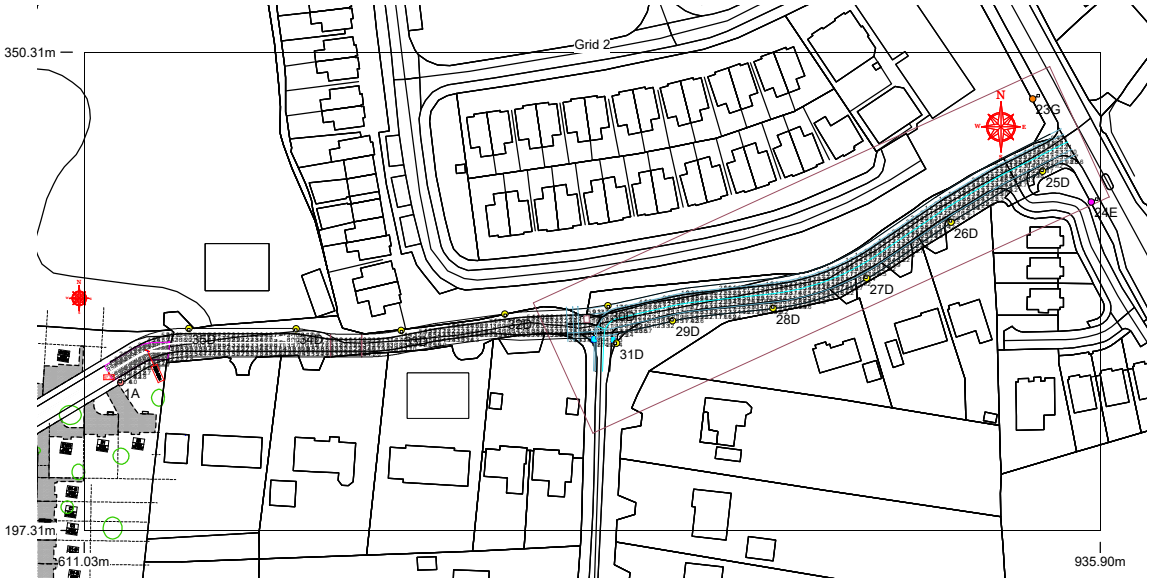


Results

Eav	7.64
Emin	1.50
Emax	26.37
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2

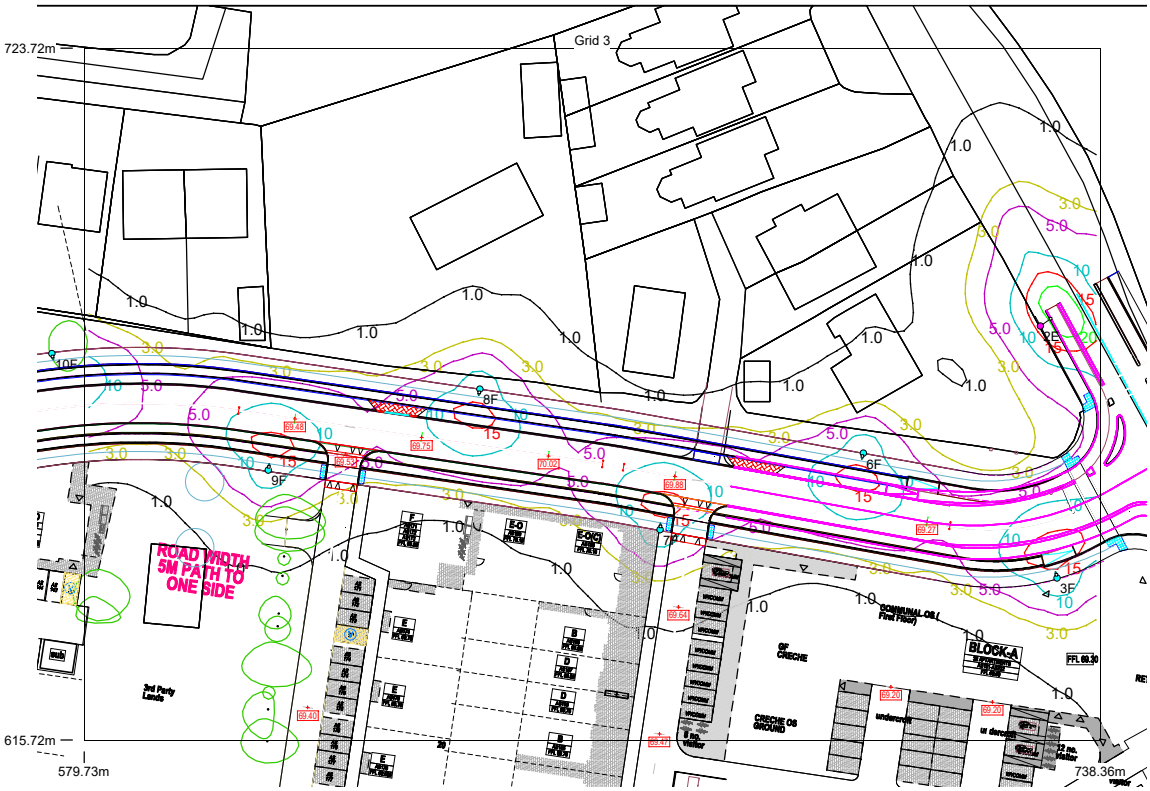


Results

Eav	7.64
Emin	1.50
Emax	26.37
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3

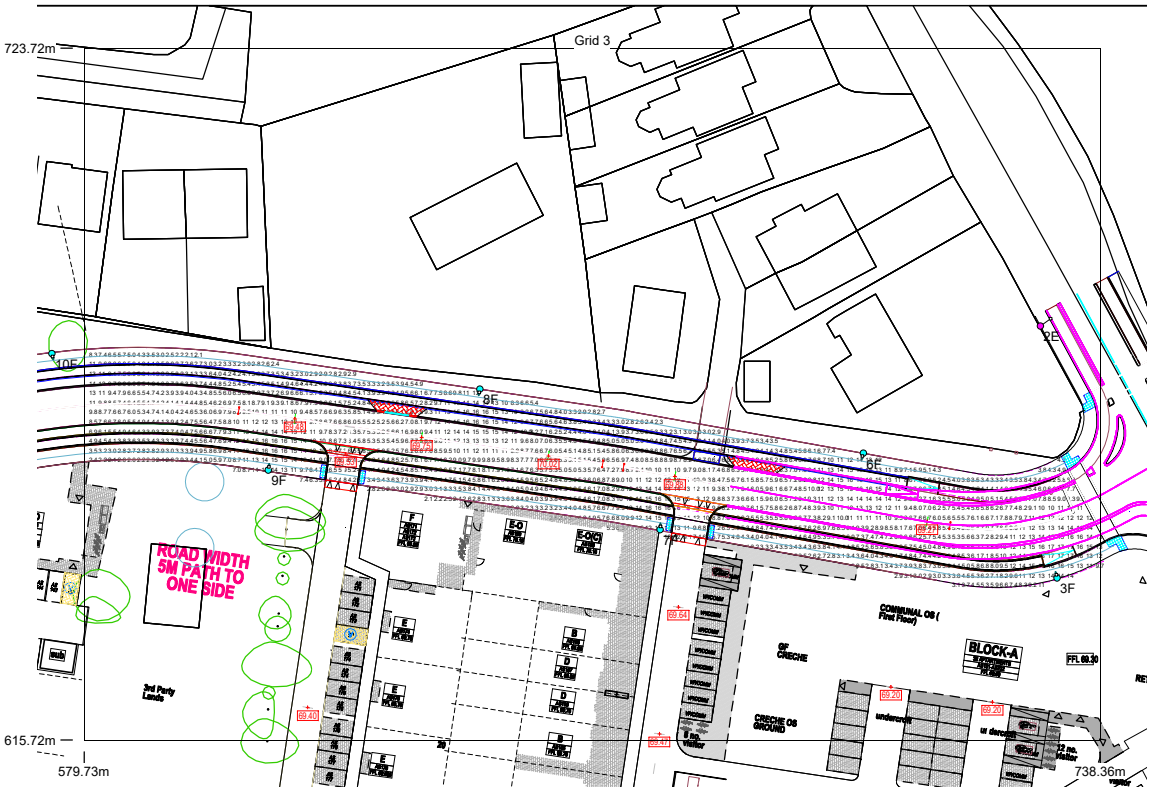


Results

Eav	7.41
Emin	2.04
Emax	17.14
Emin/Emax	0.12
Emin/Eav	0.28

Horizontal Illuminance (lux)

Grid 3

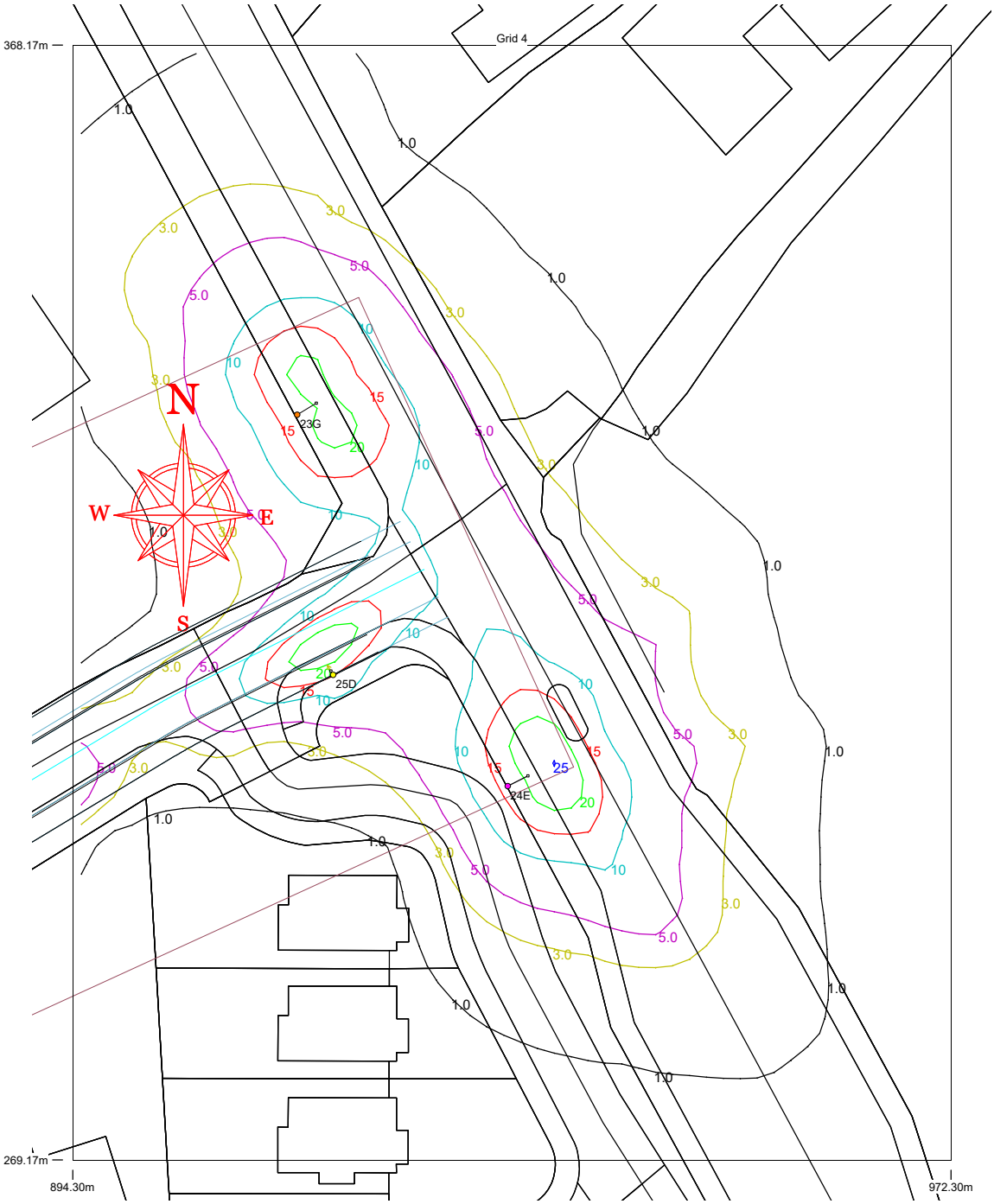


Results

Eav	7.41
Emin	2.04
Emax	17.14
Emin/Emax	0.12
Emin/Eav	0.28

Horizontal Illuminance (lux)

Grid 4



Results

Eav	11.97
Emin	4.99
Emax	25.17
Emin/Emax	0.20
Emin/Eav	0.42

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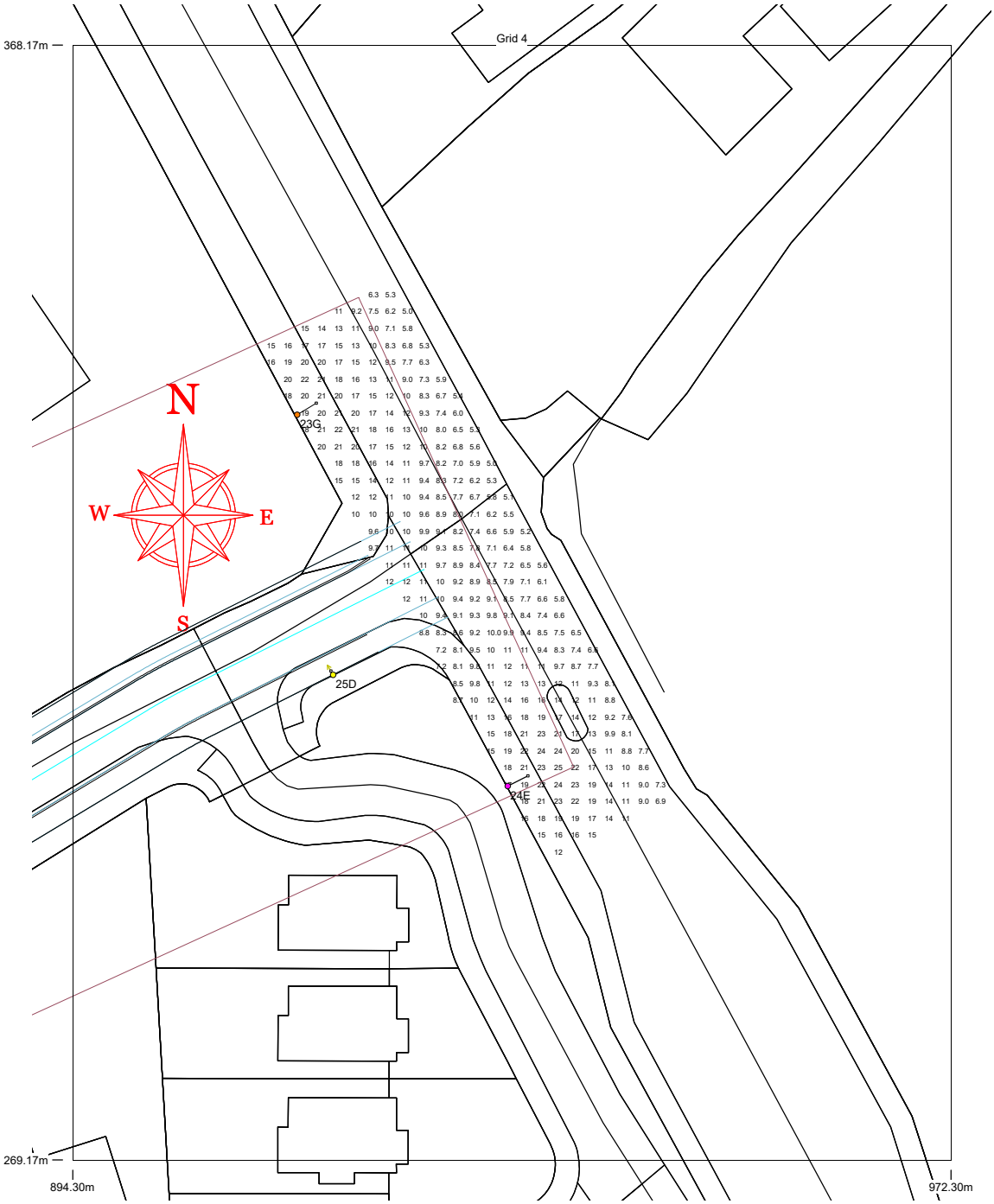
Horizontal Illuminance (lux)

Grid 4



Results

Eav	11.97
Emin	4.99
Emax	25.17
Emin/Emax	0.20
Emin/Eav	0.42

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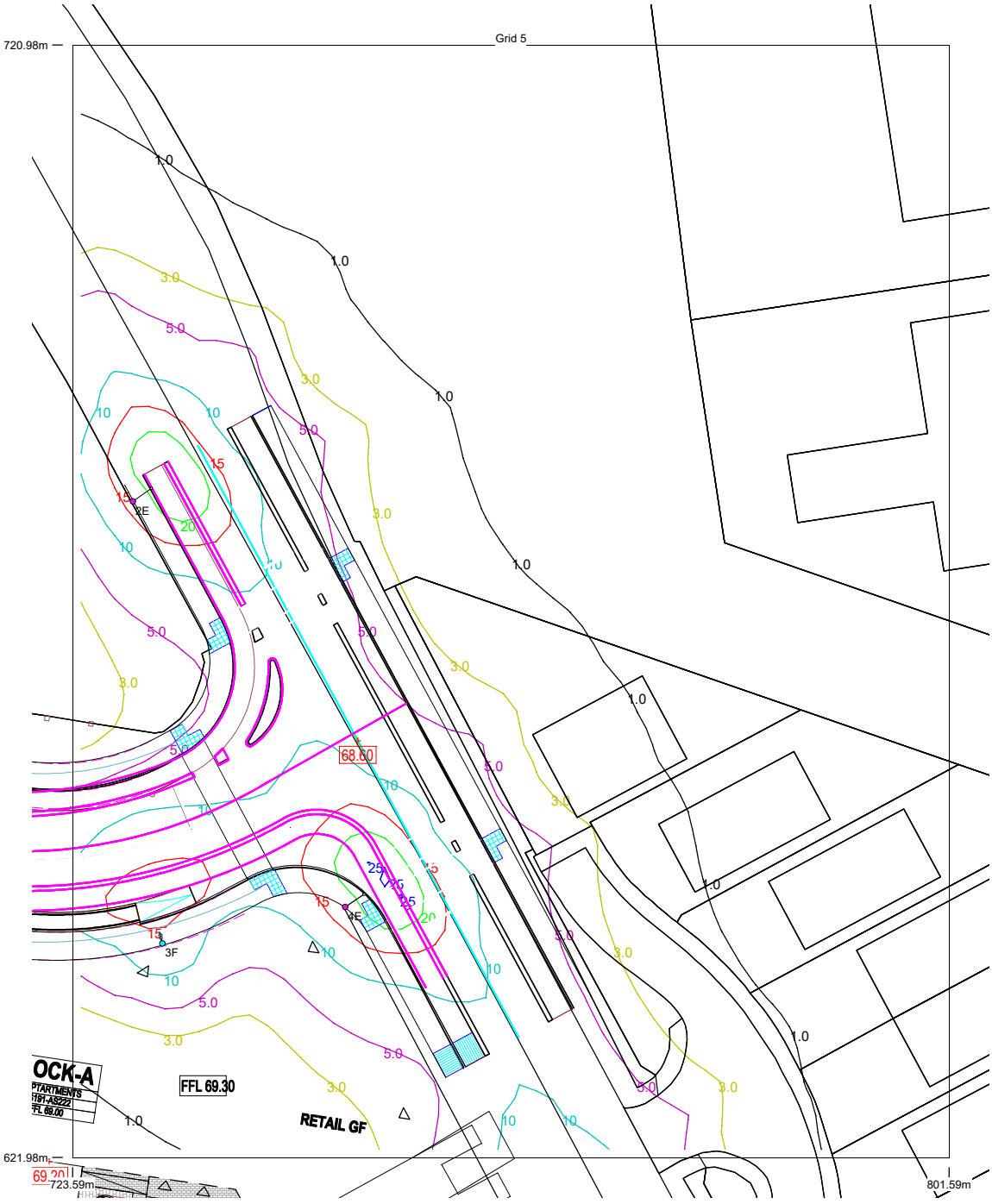
Horizontal Illuminance (lux)

Grid 5



Results

Eav	10.32
Emin	4.03
Emax	25.55
Emin/Emax	0.16
Emin/Eav	0.39

Horizontal Illuminance (lux)

Grid 5

Results

Eav	10.32
Emin	4.03
Emax	25.55
Emin/Emax	0.16
Emin/Eav	0.39

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