DATE:	**5 June 2026**
DESIGNER:	**Dan Staunton**
PROJECT No:	**26-06-03-01A**
PROJECT NAME:	**Social Housing, Harbour Road**

Social Housing Development at Harbour Road,
Mullingar, Co. Westmeath

IS EN 13201-2:2015 / BS 5489-1:2020
Road & Paths - Class P4
Secondary Paths - Class P4

Outdoor Lighting Report

Based on:
Lumen Output at 100,000 hours
Spot Lamp Replacement
Normal Environment
6 Year Cleaning Cycle
Ground is Level

PREPARED BY:

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Waterford, Ireland
+353 (0)51 875399
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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	Road & Paths	-116.83	-208.84	281.23	284.83	1.50	1.50
2	Secondary Paths	68.13	-132.53	64.71	107.95	1.47	1.50

Luminaires

Luminaire A Data

Supplier	
Type	Veelite Metro Streetlight 19w LED Forward Throw A Optic
Lamp(s)	8 LED 3000K G4 700mA
Lamp Flux (klm)	2.26
File Name	5MTA08LGA-FTA-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	401.3, 47.0, 0.5
No. in Project	2

Luminaire B Data

Supplier	
Type	Veelite Metro Streetlight 19w LED Street Optic R03
Lamp(s)	8 LED 3000K G4 700mA
Lamp Flux (klm)	2.27
File Name	5MTA08LGA-R03-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	537.8, 56.5, 0.3
No. in Project	14

Luminaire C Data

Supplier	
Type	Veelite Metro Streetlight 14w LED Street Optic R01
Lamp(s)	8 LED 3000K G4 500mA
Lamp Flux (klm)	1.57
File Name	5MTA08LGB-R01-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	680.3, 387.6, 0.6
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	-46.30	10.69	6.00	295.00	0.00	0.00	0.50			
2	B	-11.56	15.63	6.00	270.00	0.00	0.00	0.50			
3	B	22.83	15.71	6.00	270.00	0.00	0.00	0.50			
4	B	-30.51	-13.88	6.00	200.00	0.00	0.00	0.50			
5	B	-17.99	-43.68	6.00	200.00	0.00	0.00	0.50			
6	B	37.08	-3.69	6.00	0.00	0.00	0.00	0.50			
7	B	37.18	-35.26	6.00	0.00	0.00	0.00	0.50			
8	B	-2.67	-49.85	6.00	270.00	0.00	0.00	0.50			
9	B	25.39	-49.76	6.00	270.00	0.00	0.00	0.50			

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Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	B	54.05	-58.75	6.00	90.00	0.00	0.00	0.50			
11	B	55.70	-7.21	6.00	225.00	0.00	0.00	0.50			
12	B	95.67	-40.93	6.00	180.00	0.00	0.00	0.50			
13	A	71.89	-37.21	6.00	0.00	0.00	0.00	0.50			
14	B	73.13	-27.03	6.00	225.00	0.00	0.00	0.50			
15	A	89.15	-58.51	6.00	180.00	5.00	0.00	0.50			
16	B	75.05	-82.40	6.00	0.00	5.00	0.00	0.50			
17	C	97.05	-69.01	5.00	146.00	0.00	0.00	0.50			
18	C	109.48	-41.93	5.00	207.00	0.00	0.00	0.50			
19	C	75.02	-117.09	5.00	5.00	0.00	0.00	0.50			
20	C	93.72	-95.76	5.00	170.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

Road & Paths

Results

Eav	5.04
Emin	1.01
Emax	19.25
Emin/Emax	0.05
Emin/Eav	0.20

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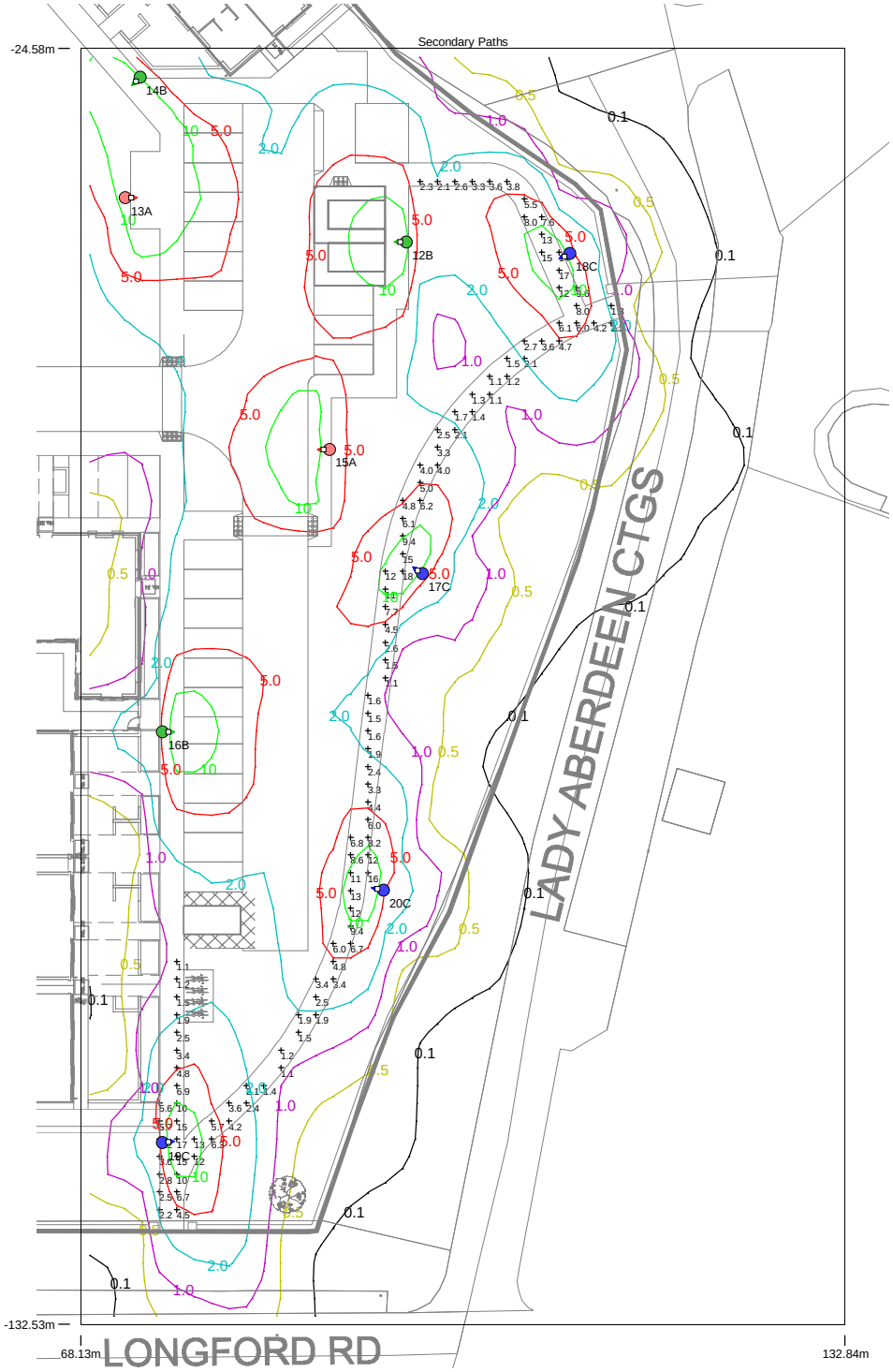
Horizontal Illuminance (lux)

Secondary Paths



Results

Eav	5.66
Emin	1.11
Emax	17.70
Emin/Emax	0.06
Emin/Eav	0.20

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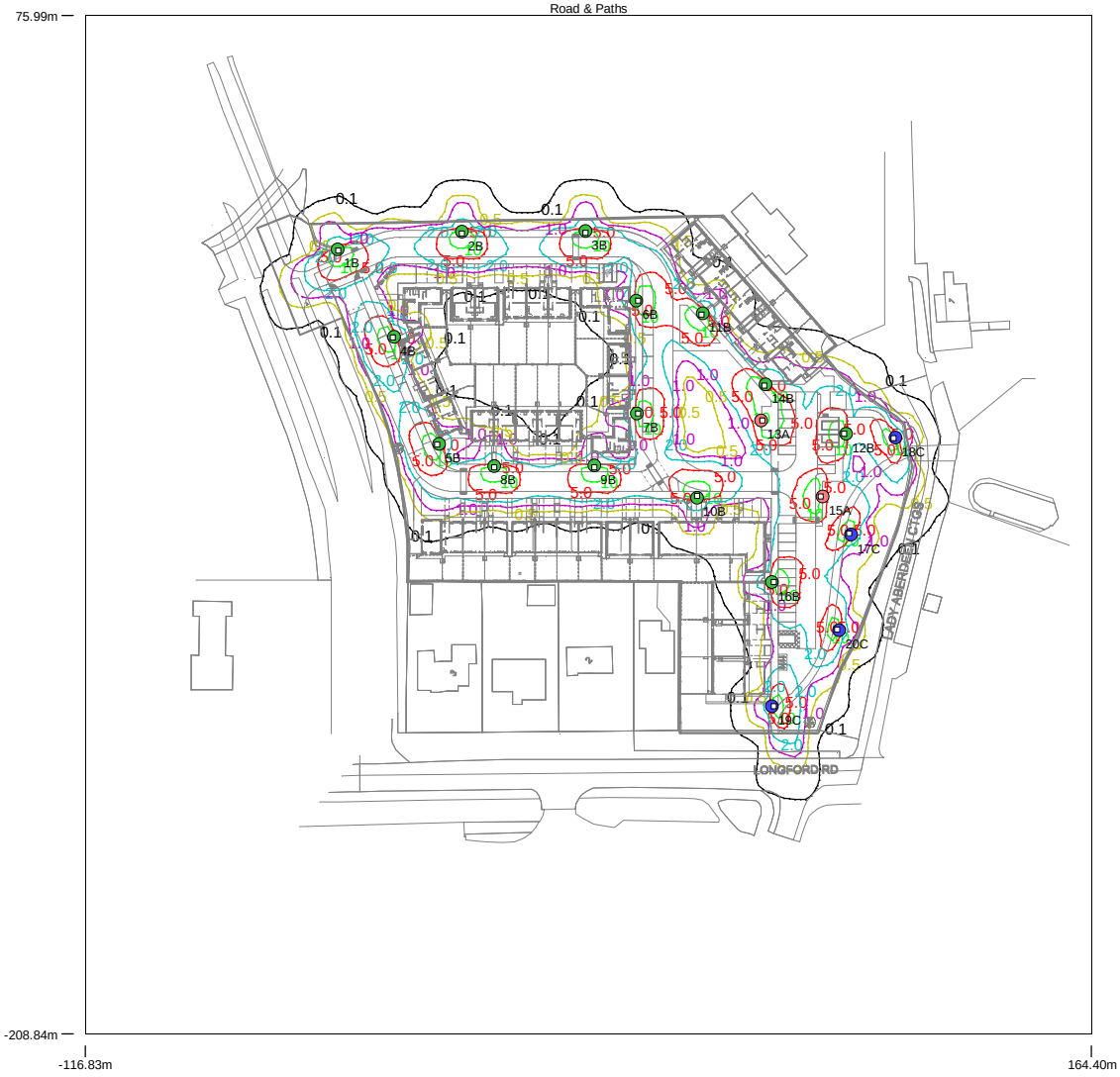
Horizontal Illuminance (lux)

Road & Paths

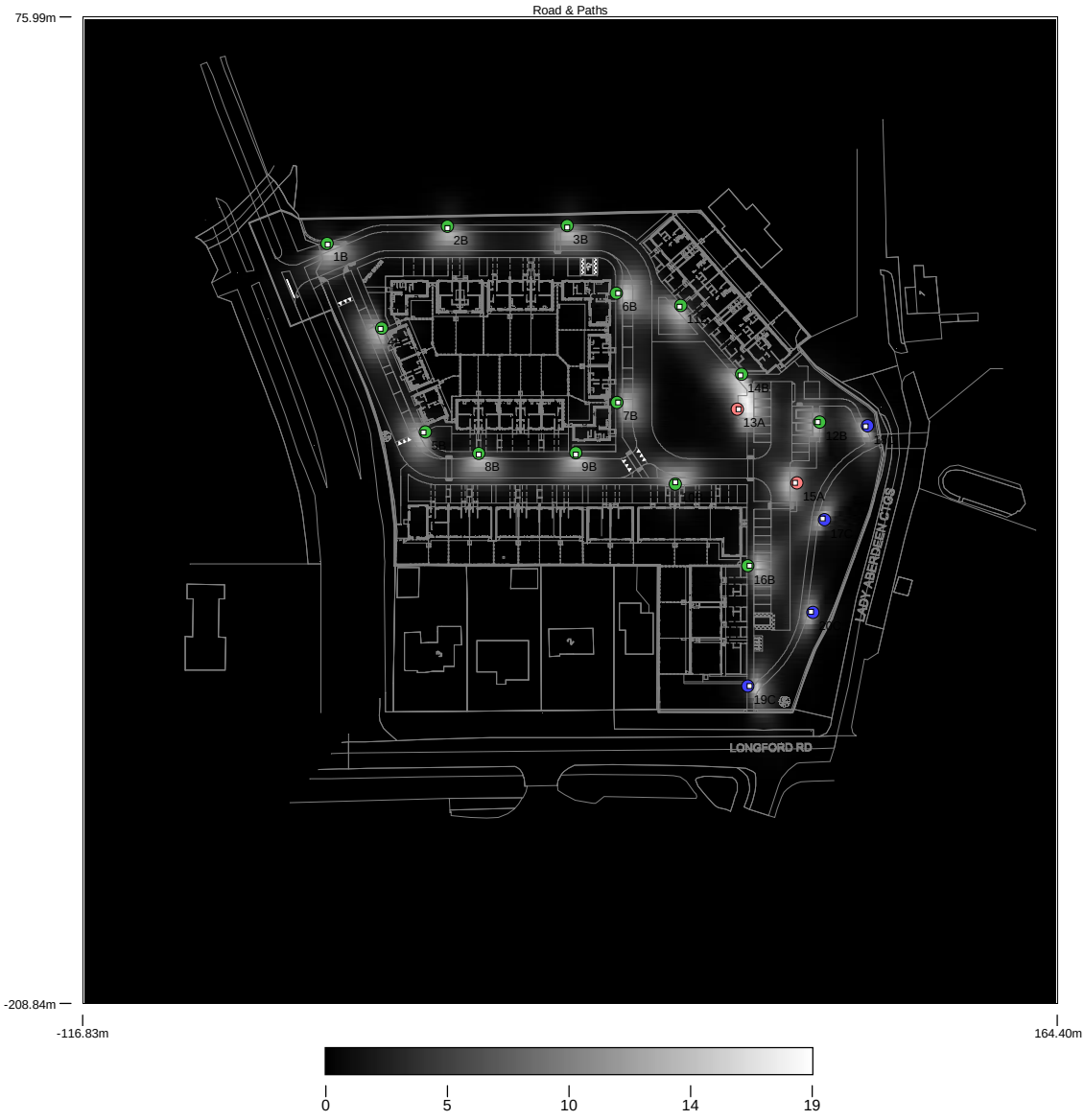


DATE: 5 June 2026 DESIGNER: Dan Staunton

PROJECT No: 26-06-03-01A PROJECT NAME: Social Housing, Harbour Road

Horizontal Illuminance (lux)

Road & Paths



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