

DATE: 08 January 2026
DESIGNER: CBS Consulting Engineers Ltd
PROJECT No:
PROJECT NAME: Residential Development at Raheen, Athenry, Co Galway

**LIGHTING
REALITY**

Outdoor Lighting Report

The lighting design has achieved the following Lighting
Standards: P3 --EN 13201-2:2015

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin -85.7m x -54.1m
Area 174.4m x 82.7m
Sample Spacing 1.49m x 1.48m

Luminaires

Luminaire A Data

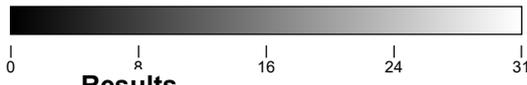
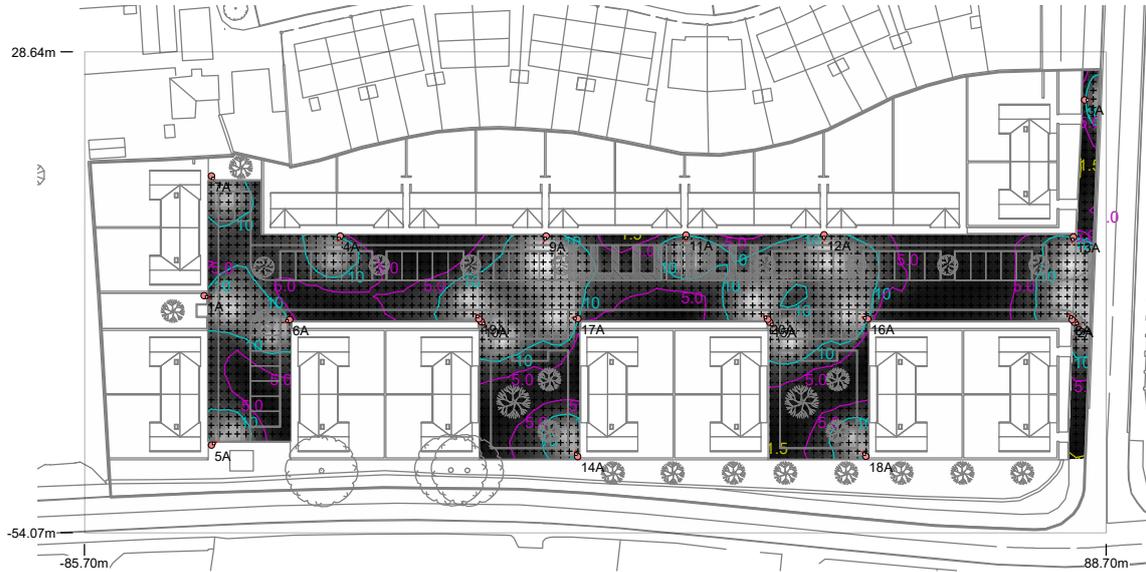
Supplier	
Type	AXIA 3 EVO 1 5266 Integrated lenses 16 OSLON SQUARE GIANT@50
Lamp(s)	16 OSLON SQUARE GIANT@500mA WW 730 230V 01-11-814
LampFlux(klm)/Colour	3.67 WW 3000K/70
File Name	25.7W 511022 Integrated lenses 230V EF Extra-Wide ProFlex .ldt
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	966.7, 185.1, 0.0
No. in Project	20

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	-65.26	-13.28	6.00	331.00	3.00	0.00	0.50			
2	A	83.20	-17.88	6.00	340.00	3.00	0.00	0.50			
3	A	84.96	20.37	6.00	358.00	3.00	0.00	0.50			
4	A	-42.07	-3.02	6.00	246.00	3.00	0.00	0.50			
5	A	-64.02	-39.02	6.00	36.00	3.00	0.00	0.50			
6	A	-50.66	-17.41	6.00	210.00	3.00	0.00	0.50			
7	A	-64.02	7.27	6.00	304.00	3.00	0.00	0.50			
8	A	82.84	-17.41	6.00	114.00	3.00	0.00	0.50			
9	A	-6.92	-3.02	6.00	250.00	3.00	0.00	0.50			
10	A	-18.03	-17.73	6.00	319.00	3.00	0.00	0.50			
11	A	16.95	-2.86	6.00	270.00	3.00	0.00	0.50			
12	A	40.50	-2.80	6.00	272.00	3.00	0.00	0.50			
13	A	83.07	-3.17	6.00	257.00	3.00	0.00	0.50			
14	A	-1.56	-40.97	6.00	118.00	3.00	0.00	0.50			
15	A	31.25	-17.86	6.00	314.00	3.00	0.00	0.50			
16	A	47.97	-17.33	6.00	160.00	3.00	0.00	0.50			
17	A	-1.50	-17.26	6.00	171.00	3.00	0.00	0.50			
18	A	47.64	-40.92	6.00	127.00	3.00	0.00	0.50			
19	A	-18.42	-17.31	6.00	115.00	3.00	0.00	0.50			
20	A	30.88	-17.34	6.00	140.00	3.00	0.00	0.50			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	9.42
Emin	1.56
E _{max}	31.49
E _{min} /E _{max}	0.05
E _{min} /E _{av}	0.17



	 Luminaire A
Supplier	
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Lamp(s)	16 OSLO SQUARE GIANT @50 0mA WW 730 230V 01-11-814
Lamp Flux (klm)	3.67
Maintenance Factor	0.87
No. in Project	20

PROJECT NAME: Residential Development at Raheen, Athenry, Co Galway	
SCALE: 1:500	DATE: 08 January 2026
CALCULATION: Horizontal Illuminance (lux)	

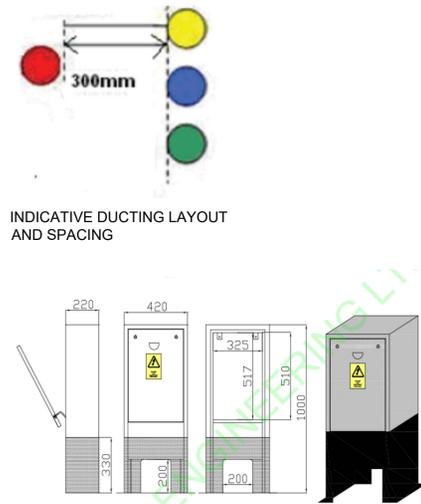
*****DO NOT USE THIS DRAWING FOR CONSTRUCTION*****

THIS DRAWING IS INDICATIVE OF REQUIREMENTS ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN AND COMPLIANCE OF ALL ASPECTS OF THE PROJECT. DRAWING SHALL BE READ AS MINIMUM REQUIREMENTS. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER INFORMATION.

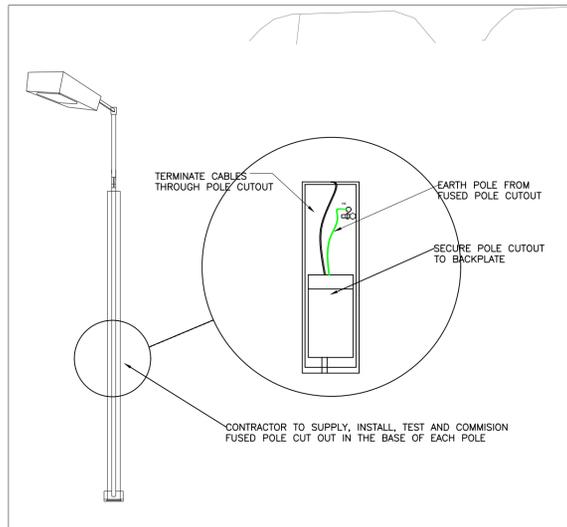
THIS DRAWING IS A SERVICE MARKUP SHOWING SERVICES REQUIREMENTS THIS DRAWING IS NOT A CIVIL ENGINEERING DRAWING. BEST PRACTICE SHALL BE USED TO CARRY OUT THE INSTALLATION. IF IN DOUBT THE CIVIL ENGINEER SHOULD BE CONSULTED.

- Notes:**
- POLE TOP LUMINAIRES INSTALLED COMPLETE WITH INTEGRAL PHOTOCELL.
 - LIGHTING CABLED IN 3 X 6.0MMSQ XLPE/SWA/PVC/Cu CABLE RATED FOR USE IN DUCTS
 - LUMINAIRES SHALL BE SWITCHED THROUGH INTEGRAL PHOTOCELL IN EACH LUMINAIRE
 - THE ELECTRICAL CONTRACTOR SHALL SUPPLY, INSTALL, TEST AND COMMISSION ALL LIGHTING POLES, POLE TOP LUMINAIRES, POLE CUT-OUTS AND SUNDRY ITEMS
 - ALL ELECTRICAL WORKS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH IS10101:2020 NATIONAL RULES FOR ELECTRICAL INSTALLATIONS.
 - THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A SPECIALIST STREET LIGHTING CONTRACTOR TO CARRY OUT THE SUPPLY AND INSTALLATION, TESTING, INSPECTION, COMMISSIONING AND HANDOVER OF THE STREET LIGHTING.
 - THE SPECIALIST STREET LIGHTING CONTRACTOR SHALL BE APPROVED BY GALWAY COUNTY COUNCIL.
 - THIS IS A LAYOUT DRAWING. DO NOT SCALE FROM THIS DRAWING. USE ARCHITECTS DRAWINGS TO TAKE FIGURED DIMENSIONS. ACTUAL DIMENSIONS SHOULD BE MEASURED BY MEANS OF A SITE VISIT.
 - THE CONTRACTOR SHALL SUPPLY ALL NECESSARY LABOUR & MATERIALS. A FULLY FUNCTIONING COMPLETE INSTALLATION SHALL BE HANDED OVER TO THE CLIENT.

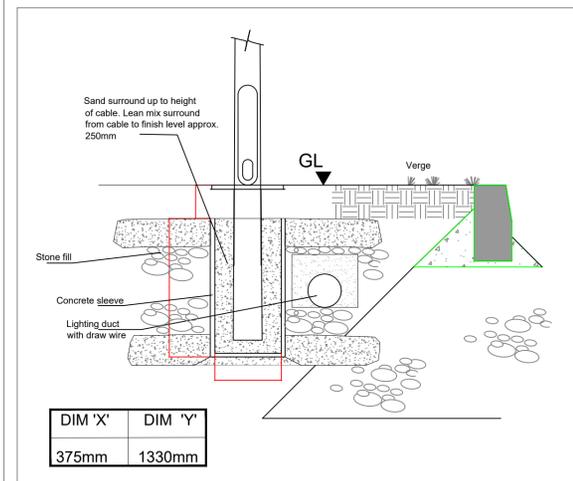
- Key**
- Street Lighting Location
 - Luminaire A Column
 - Beam Aiming Target
 - Photometric Centre



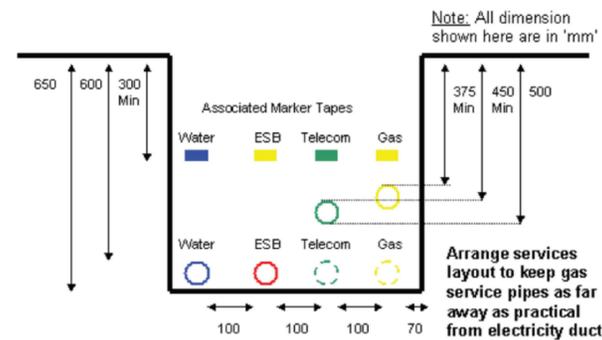
STREET LIGHTING MICRO PILLAR - TYPICAL



TYPICAL SLEEVE DETAIL



TYPICAL POLE CUT OUT DETAIL



INDICATIVE DUCTING DEPTHS AND WARNING TAPE DEPTHS

Supplier	
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Maintenance Factor	0.87
No. in Project	20
LUMINAIRE SCHEDULE	

P	Preliminary	RY	08.01.26
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			

CBS Consulting Engineers
MECHANICAL & ELECTRICAL ENGINEERS

CLIENT: Comhairle Chontae na Gallimhe Galway County Council

ARCHITECT: Paul Keogh Architects
Cathedral Court
New Street
Dublin 8

SITE: Proposed Development at Raheen, Atheny, Co Galway

TITLE: Public Lighting Layout

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:300	08.01.26	RY	RY
PROJECT NO:	DRAWING NO:	REVISION:	
	E800	T	