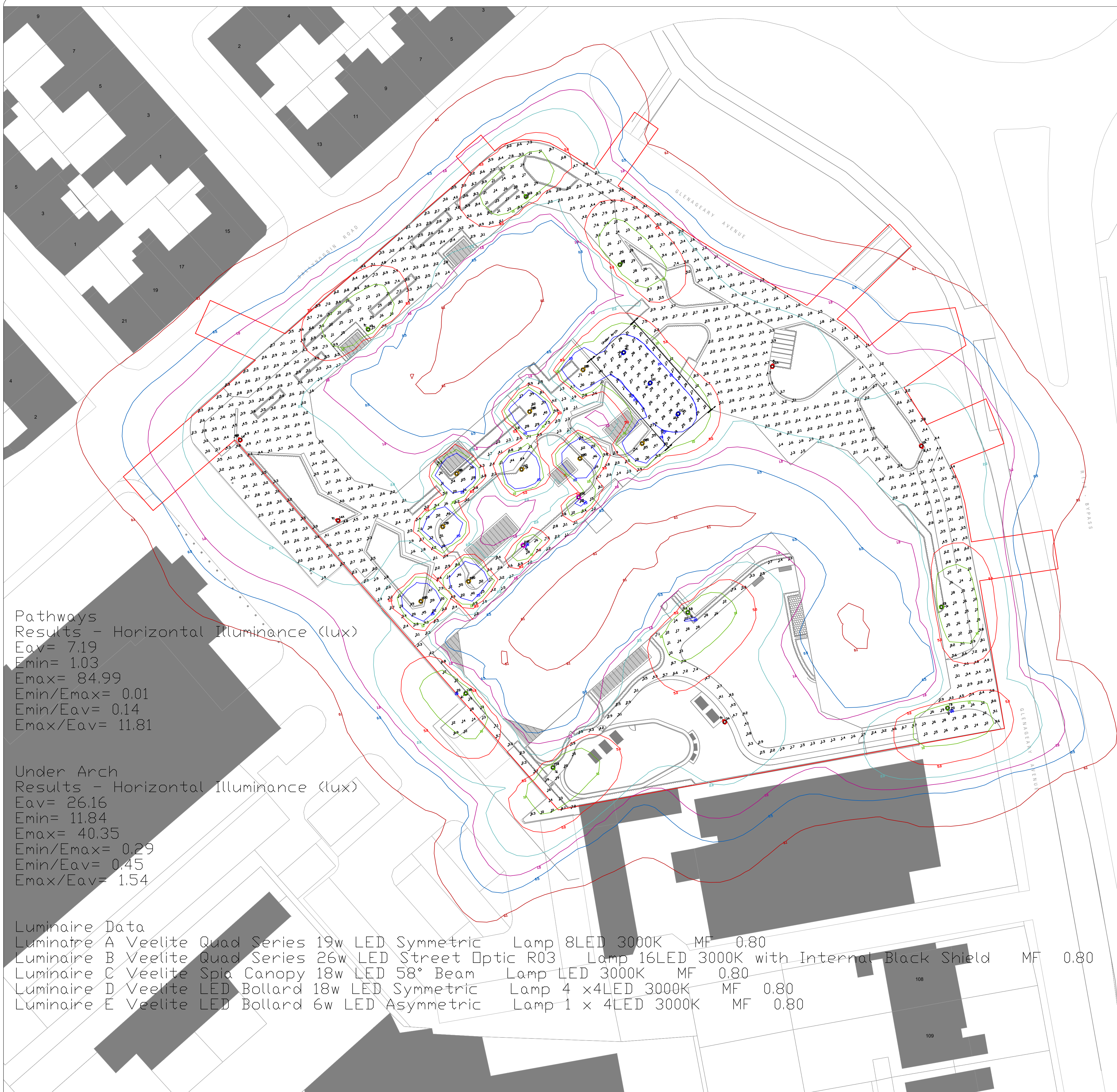




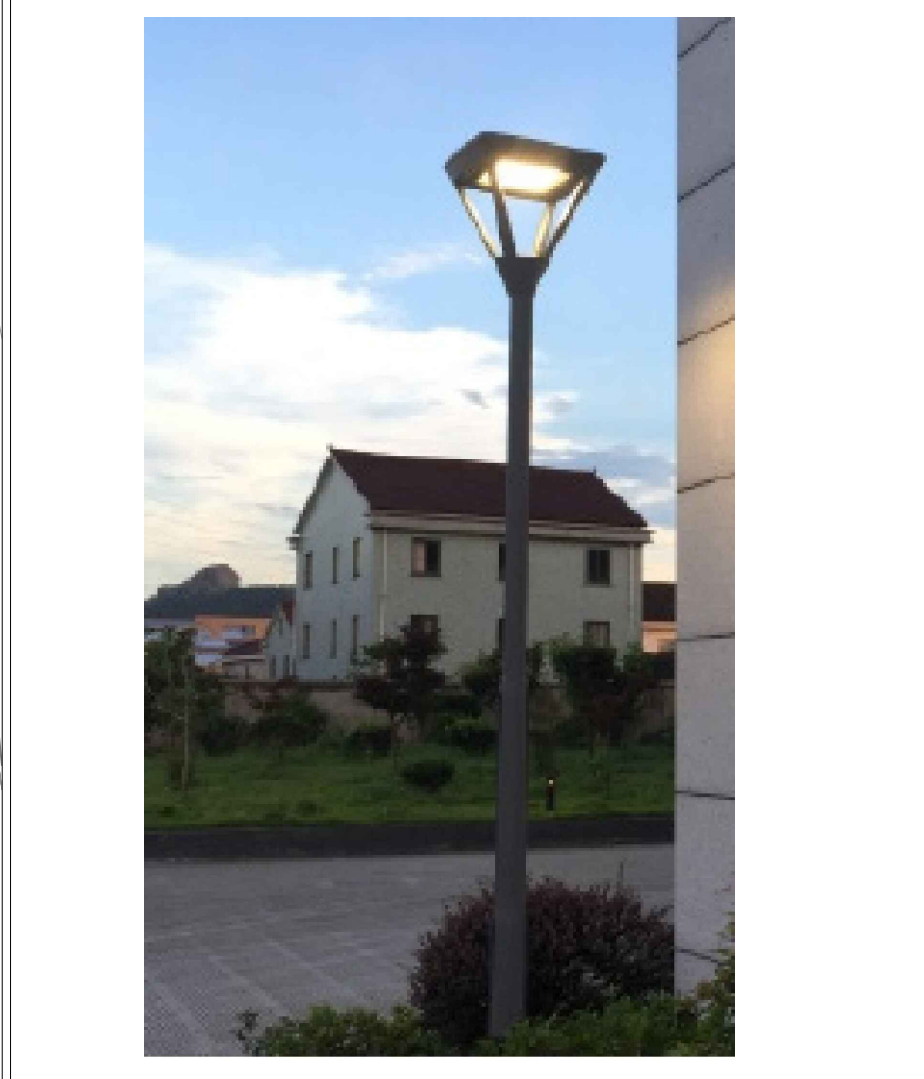
Pathways
Results - Horizontal Illuminance (lux)
Eav= 7.19
Emin= 1.03
Emax= 84.99
Emin/Emax= 0.01
Emin/Eav= 0.14
Emax/Eav= 11.81

Under Arch
Results - Horizontal Illuminance (lux)
Eav= 26.16
Emin= 11.84
Emax= 40.35
Emin/Emax= 0.29
Emin/Eav= 0.45
Emax/Eav= 1.54

Luminaire Data									
Luminaire A	Veelite	Quad Series	19w	LED	Symmetric	Lamp	8LED	3000K	MF 0.80
Luminaire B	Veelite	Quad Series	26w	LED	Street Optic R03	Lamp	16LED	3000K with Internal Black Shield	MF 0.80
Luminaire C	Veelite	Spia Canopy	18w	LED	58° Beam	Lamp	LED	3000K	MF 0.80
Luminaire D	Veelite	LED Bollard	18w	LED	Symmetric	Lamp	4 x 4LED	3000K	MF 0.80
Luminaire E	Veelite	LED Bollard	6w	LED	Asymmetric	Lamp	1 x 4LED	3000K	MF 0.80

PROPOSED PUBLIC LIGHTING SITE LUX LEVELS (SCALE 1:275)

- PUBLIC LIGHTING NOTES:**
- This Public Lighting Scheme for the development has been designed to provide high quality public lighting throughout the public realm of the site. The external lighting design for this development has been designed by an independent lighting design specialist (VeeLite Lighting Ltd.) to achieve the necessary performance requirements as set out in the following standards:
 - a) National Rules for Electrical Installation IS10101:2020
 - b) BS8300:2018 Design of an accessible and inclusive built environment
 - c) Dun Laoghaire Rathdown County Council Public Lighting In Residential and Industrial Areas Guidance Document: January 2022
 - d) Institution of Lighting Professionals - Guidance for the Reduction of Obtrusive Light GN01:2011
 - e) BS EN 13201-2 (2015), Road Lighting Part 2:Performance Requirements
 - f) BS5489-1 (2013) Code of Practice for the Design of Road Lighting
 - g) Chartered Institution of Building Services Engineers - Lighting Guide 6: The Exterior Environment
 - h) Bats and Lighting - Guidance Notes for Planners, Engineers, Architects and Developers (Bat Conservation Ireland, 2010). Subject To Report Findings
 - i) Bats and Lighting in the UK-Bats and the Built Environment Series (Institute of Lighting Professionals, 2018, Subject To Report Findings)
 - Ducting shall comply with BSEN 50086-1-2:3-4 latest edition & shall be single wall, coloured RED & manufactured from high density Polypropylene. The nominal external diameter of the duct shall be 107mm with a minimal wall thickness of 5mm. Each length of duct shall be stamped with the words "Public Lighting" or alternatively "Street Lighting", in 18mm BLACK lettering at "0" degrees test alignment. At one metre intervals, duct shall be laid with this legend facing upwards. Duct shall be laid in a straight line close to the line of the column locations and shall contain a continuous draw-wire of 8KN strength. All ducts shall be proven with brush and mandril. Polypropylene roped and plugged and compliant with IS 10101 requirements. RED Duct shall be used for exteriors lighting cables.
 - A minimum depth of 450mm covers is required in Urban Pathways & a minimum of 600mm cover is required for grass margins, pedestrian ways, laneways and gateway entrances & a minimum depth of 750mm is required at road crossings or in carriageways.
 - All equipment to be suitably I.P. rated for the environment they are being installed.
 - All electrical supplies to the Public Lighting Scheme shall be from un-metered Micro-Pillars, Supplied From Mini-Pillars as shown. The proposed Public Lighting Scheme is to be Taken In Charge by Dunlaoghaire Rathdown County Council Public Lighting Division once all design has been accepted and verified.
 - Lighting Column Setback shall be 0.8M from Kerb in accordance with BS5489-1 Table 2.
 - Where necessary, the Contractor to include a Light Shield to be fitted on each luminaire to avoid Back Spill.



GENERAL NOTES

ANY DISCREPANCIES OR OMISSIONS TO BE REPORTED TO JAK CONSULTING ENGINEERS IMMEDIATELY.

DO NOT SCALE - WORK FROM FIGURED DIMENSIONS ONLY.

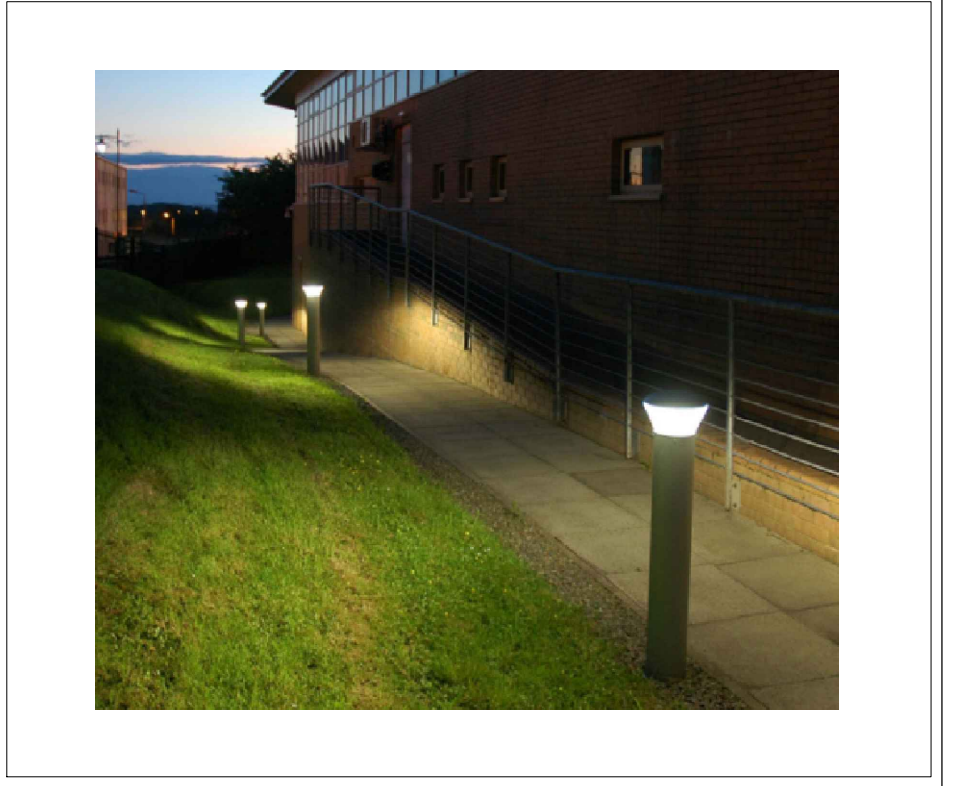
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL CIVIL ENGINEERS, STRUCTURAL ENGINEERS, ARCHITECTS & ALL OTHER RELEVANT DRAWINGS & SPECIFICATIONS RELATING TO THE PROJECT.

ALL DIMENSIONS TO BE CONFIRMED ON SITE.

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LEGEND:

- MICRO PILLAR (MCP-00)
- DENOTES NEW 110mmØ PUBLIC LIGHTING DUCT ROUTE
- NEW ESB MINIPILLAR & CHAMBER
- Luminaire A Column
- Luminaire B Column
- Luminaire C Column
- Luminaire D Column
- Luminaire E Column
- Beam Aiming Target
- Photometric Centre
- Existing Public/Private Lighting Standard



PL3	PLANNING	ID	PF	28/09/2023
PL2	PLANNING	ID	PF	18/04/2023
PL1	PLANNING	ID	PF	22/12/2022
REV	Description	DRN	APP	Date

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E: info@jak.ie
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PROJECT/CLIENT:
GLENAGEARY GATE RESIDENTIAL DEVELOPMENT
GLENAGEARY
Co. DUBLIN
FOR RED ROCK LTD.

ARCHITECT:
NIALL D. BRENNAN ASSOCIATES
52 PEMBROKE ROAD, BALLSBRIDGE, DUBLIN 4

DRAWING TITLE:
SITE SERVICES LAYOUT
PUBLIC LIGHTING SITE LUX LEVELS

DRAWING REFERENCE: J680(6-J02)	DRAWING/PROJECT STATUS: PLANNING	REVISION REF: PL3
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FILENAME: J680(6-J02-2)	DATE: 28/09/2023	DRAWN: ID	SCALE @ A1: 1:275
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