



GOATSTOWN ROAD

REVISIONS

DATE	REV	BY	DETAILS
22/01/24	1	RM	XXXXXXXX

A

Luminaire A: Thorn IP68 post top decorative aluminum lantern with 40W LED packages, powder coated dark grey finish, with prismatic diffuser and copper lampshields. Street distributions, integrated dimming system and black 6m column. Thorn Avenue F2.

C

Luminaire C: Wall mounted luminaire. Die-cast aluminium, painted anthracite. Body: anthracite polycarbonate. IP65, 1610. 1844lumen and complete with 2700K LED.

Main Access P1

Results - Horizontal Illuminance (lux)

Eav= 15.22

Emin= 3.27

Emax= 43.74

Emin/Emax= 0.07

Emin/Eav= 0.21

Emax/Eav= 2.87

Open Walkways P3

Results - Horizontal Illuminance (lux)

Eav= 7.66

Emin= 1.58

Emax= 30.45

Emin/Emax= 0.05

Emin/Eav= 0.21

Emax/Eav= 3.97

Bike Parking P3

Results - Horizontal Illuminance (lux)

Eav= 8.77

Emin= 1.87

Emax= 23.17

Emin/Emax= 0.08

Emin/Eav= 0.21

Emax/Eav= 2.64

Luminaire Data

Luminaire A AVENUE F2 18LED 500mA WST optic Lamp T

Luminaire C PIAZZA II LED 1690-840 HF ANT Lamp T

Key

Luminaire A Column

Luminaire C Column

Beam Aiming Target

Photometric Centre

Rolec pedestal mounted dual

OCPP EV charge point

(2x3.6kW) with PAYG

E-bike charging station with 2xSchuko,

1xBosch and 1xShimano charging points.

Station to accomodate e-Scooter charging

Notes:

1. Lighting shall be warm spectrum (<2700Kelvin) with peak wavelengths no higher than 550nm to avoid light disturbance to bats.

2. Light fittings shall have a 0% upward light ratio with no upward tilt.

3. Baffles and louvers to be fitted to light fittings to direct light only to pedestrian and trafficable areas.

4. Lighting to be installed with lighting controls to allow movement detection to ensure lighting is off when not required. Light scheduling to also allow light output to be dimmed from 100% to 0% based upon available daylight.

5. Type C light fittings will have daylight and movement sensing to ensure energizing of lights is limited only lights necessary for lighting in the vicinity of detected movement. Light output of these fittings will reduce to 25% between dusk and dawn and increase to 100% upon presence detection for 20min duration.

6. Type A light fittings will have a celestial time clock and be controlled to be off from dawn to dusk. The photocell controlling type A lights will be controlled to a 35lux/18lux light level setting.

7. Lighting control sensors to have motion detection field limited to movement areas only and shall not extend to detect movement beyond the site boundary.

ENGINEERS IRELAND

CIBSE

PRELIMINARY

rmce

Mechanical & Electrical Engineering

RONAN MEALLY CONSULTING ENGINEERS LTD

1 City Wall, James Street

Kilkenny

Ireland

R95 XF97

Telephone: 056 7795428 email: info@rmce.ie

PROJECT

PROPOSED DEVELOPMENT

GOATSTOWN

DUBLIN 14

DRAWING TITLE

ELECTRICAL SERVICES

SITE LIGHTING LAYOUT

DRAWN

RM

SCALE

1:150

JOB NO.

19K113

REV

P5

CHECKED

RM

DATE

SEPT 2024

DRAWING NO.

E-1000