



PUBLIC LIGHTING LEGEND

107mm HDPE RED DUCTING TO IS135 CLASS B STANDARD PUBLIC LIGHTING DUCT WITH WARNING TAPE OVER. (600mm MIN COVER & 750mm COVER IN ROAD CROSSING).

50mm BLACK DUCT @600mm WITH WARNING TAPE OVER DUCT

775x625mm INSPECTION CHAMBER. 'ej' MANUFACTURED FJ60145 TO EN124

EXTERNAL LIGHTING MIDD-PILLAR

URBIS SCHREDER AXIA 3.1 5267 - 16 OLSON SQUARE GIANT 480mA WW 730, 25.2W, 230V WITH 457672 INTEGRATED LENSES c/w REAR LOUVRE, 3000K. CONTRACTOR TO PROVIDE 6m HIGH FIXED COLUMN & BASE.

URBIS SCHREDER AXIA 3.1 5296 - 8 OLSON SQUARE GIANT 300mA WW 730, 8.4W, 230V WITH 457602 INTEGRATED LENSES c/w REAR LOUVRE, 3000K. CONTRACTOR TO PROVIDE 6m HIGH FIXED COLUMN & BASE.

URBIS SCHREDER AXIA 3.1 5267 - 16 OLSON SQUARE GIANT 700mA WW 730, 36.3W, 230V WITH 457672 INTEGRATED LENSES c/w REAR LOUVRE, 3000K. CONTRACTOR TO PROVIDE 6m HIGH FIXED COLUMN & BASE.

NOTES & LEGEND

1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.

3. FINAL LOCATION OF MIDPILLARS & DUCTS TO BE AGREED WITH COUNCIL & ESB SUPERVISOR PRIOR TO INSTALLATION.

4. PROVIDE FOR CONTINUOUS 10mm PP DRAW ROPE SECURED AT BOTH ENDS IN THE DUCT.

5. PROVIDE A COMPLETION CERTIFICATE FOR THE PUBLIC LIGHTING SYSTEM.

6. PROVIDE 2m SEPARATION BETWEEN ESB MINIPILLAR & PL MIDPILLAR or PL COLUMN, etc.

7. ALL LIGHTING COLUMNS TO BE POSITIONED AT REAR OF FOOTPATH OR SET BACK 800mm CLEAR OF ROAD EDGE KERB.

8. PUBLIC LIGHTING INSTALLATION TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH WESTMEATH COUNTY COUNCIL'S PUBLIC LIGHTING GUIDANCE DOCUMENTS.

9. PROVIDE FOR 50mm FLEX DUCT OR HYDRODARE FROM PL COLUMNS TO 107mm HDPE DUCTING WITHIN 1 METRE OF PL FITTING.

10. THE PROPOSED LIGHT FITTINGS HAVE ENERGY EFFICIENT LED TECHNOLOGY & HAVE 7-PIN NEMA SOCKETS FOR USE WITH A CENTRAL MANAGEMENT SYSTEM (CMS).

11. PUBLIC LIGHTING INSTALLATION SHALL COMPLY WITH BS5489-1 & BS EN13201-2.

12. LANTERNS SHALL BE LED TO COMPLY WITH SEA1 'LED LANTERN SPECIFICATION FOR PUBLIC SECTOR EXTERIOR LIGHTING'.

13. LIGHTING COLUMNS SHALL BE OF TAPERED OCTAGONAL CONSTRUCTION WITH A MINIMUM WALL THICKNESS OF 3MM AND SHALL COMPLY WITH THE REQUIREMENTS OF BS5649 OR EN40. IN RESIDENTIAL AREAS OCTAGONAL COLUMNS SHALL BE A MINIMUM OF 6 METERS ABOVE GROUND WITH A 1 METRE LONG ROOT (7M TOTAL LENGTH), OF FOLDED STEEL, GRADUALLY TAPERED AT A CONSTANT RATE FROM THE BASE AND TERMINATING WITH A DIMENSION OF 68MM ACROSS FLATS AT THE TOP. A LANTERN THAT CANNOT BE ACCESS USING A LORRY MOUNTED HOIST MUST BE MID- HINGED TO FACILITATE FUTURE MAINTENANCE.

14. IN ORDER TO BENEFIT BATS, AS WELL AS OTHER FAUNA ACTIVE/RESTING AT NIGHT, THE DESIGN OF THE PUBLIC LIGHTING SCHEME HAS BEEN CARRIED-OUT TO MINIMISE LIGHT SPILLAGE AND NUISANCE/GLARE BY USING SHIELDED, DOWNWARD DIRECTED LIGHTING, USING NARROW SPECTRUM LIGHTING TYPES WITH LOW UV & LUMINAIRE ACCESSORIES AND PROVIDING THE FACILITY FOR SWITCHING OFF ALL NON-ESSENTIAL LIGHTING DURING THE HOURS OF DARKNESS. IN ADDITION TO THE ABOVE, WE HAVE ADJUSTED THE SP RATIO FROM 1.5 TO 1.3, CHANGED THE COLOUR TEMPERATURE FROM 4000K TO 3000K, COLUMNS HAVE BEEN MOVED AWAY FROM AREAS WHERE BATS ARE LIKELY TO BE ACTIVE AND LANTERNS TO BE FITTED WITH BACK SHIELDS.

NOTES

PL2	UPDATED FOR FURTHER INFORMATION	KP	KP	DC	19/08/2025
PL1	PLANNING ISSUE	KP	KP	DC	02/04/2025
C	DESIGN ISSUE	KP	KP	DC	11/03/2025
B	DESIGN ISSUE	KP	KP	DC	19/11/2024
A	DESIGN ISSUE	KP	KP	DC	05/11/2024
ISSUE	DESCRIPTION	DRN	ORIG	APP	DATE

TYPICAL LIGHTING COLUMN INSTALLATION DETAIL

COLUMN MOUNTING HEIGHT	8m	6m
COLUMN ROOT DEPTH	1.5m	1.0m
CABLE ENTRY DEPTH	0.3m	0.3m
ROOTING CONCRETE DEPTH		
ROOTING DOOR HEIGHT	1.5m	1.5m
COLUMN SLEEVE SIZE (mm) INTERNAL	400	400
EXCAVATION (WIDTH x LENGTH (mm))	600	600

HEAVY DUTY PVC OR CONCRETE PIPE TO SIZE B

LIGHTING COLUMN

25N CONCRETE

CONNECTION FUSE

CUT-OUT UNIT:

ELSA B1 - SINGLE LAMP

ELSA B2 - TWIN LAMP

LEANMIX CONCRETE

FLEX DUCT OR HYDRODARE PIPE

DOOR

GRAVEL / SAND TO FILL EXCAVATION VOID

CONCRETE OR PVC SLEEVE

INTERNAL DIM = ROOT DIAMETER + 100mm

Ø107 HDPE RED DUCT

LEANMIX CONCRETE

CONCRETE COLLAR TOP & BOTTOM 100mm DEEP d = 50mm

TYPICAL ARRANGEMENT FOR LOCAL DUCTING

CLIENT

CORCOM ENTERPRISES LIMITED

M

A

N

D

E

CONSULTING ENGINEERS

Unit 4 Oak Close

Western Business Park

Dublin 12, D12 R8C6

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PROJECT

HOUSING DEVELOPMENT AT KINNEGAD, Co. WESTMEATH

TITLE

PUBLIC LIGHTING LAYOUT SITE PLAN

PROJECT No.

24022

DATE:

NOVEMBER 2024

A1

SCALE

1:500

DRG No.

24022-MAE-00-XX-DR-E-6000

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