



Notes:
 All LED lanterns must have Constant Light Output (C.L.O.)
 Automatically dimmed to 75% each night from 12 midnight to 6am.
 (L14 Profile)
 All lanterns to have 7pin NEMA sockets fitted.
 Electronic Photoeyes switched at 35/18lux
 All columns, luminaires, cable and pillars, shall comply with Local Authority
 General Specification for Public Lighting.
 No trees to be located within falling distance of PL columns.
 Minimum set-back of columns is 800mm from face of kerb.
 Public lighting cable chamber as per Local Authority PL Dept. specification.

1.0 lux
 3.0 lux
 5.0 lux

Volt drop calculation for the most onerous circuit

ESB SUPPLY	SOURCE PILLAR	CIRCUIT	DESIGN CURRENT (Amps per Phase)	CABLE SIZE (sq.mm.)	CABLE LENGTH (m)	FUSE (Amps)	VOLT DROP (Volts)
S1	MP1	MAIN	1.1	0.14	2408	45	1.0
S1	MP1						0.03

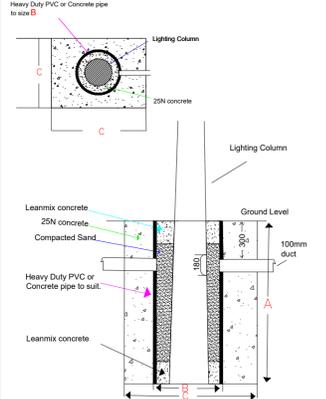
TYPE A COLUMN DETAILS	
HEIGHT	: 5m Raise & Lower
BRACKET LENGTH	: Post-top
INCLINATION	: 0 Degrees
COLUMN QUANTITY	: 1
LANTERN DETAILS	
WATTAGE (CLO)	: 16
MAKE & MODEL	: Acrospire-SYMA-12-400mA-740
TYPE B COLUMN DETAILS	
HEIGHT	: 5m Raise & Lower
BRACKET LENGTH	: Post-top
INCLINATION	: 0 Degrees
COLUMN QUANTITY	: 4
LANTERN DETAILS	
WATTAGE (CLO)	: 16
MAKE & MODEL	: Acrospire-ME-12-400mA-740

206sq NYC/C cable laid in ducting to I.S.10101:2020.
 Single wall ducting, colour red to be used
 manufactured from high density polyethylene (H.D.P.E.),
 107mm external diameter, having a wall thickness of 5mm.
 This ducting to have the words "Street Lighting" stamped on
 to be clearly legible at 1m intervals. The lettering to face up/down
 in the trench. As works to Local Authority specification.
 This is a circuit layout and not indicative of where ducts are to be laid

Public Lighting Pillar (located at least 2m from ESB pillar)

Typical Base detail, to be checked by site engineers.

COLUMN MOUNTING HEIGHT	12m	10m	8m	6m
COLUMN ROOT DEPTH	A 1.9m	1.7m	1.5m	1.0m
CABLE ENTRY DEPTH	0.3m	0.3m	0.3m	0.3m
ROOTING CONCRETE DEPTH				
COLUMN DOOR HEIGHT	1.5m	1.5m	1.5m	1.5m
COLUMN SLEEVE SIZE(mm) internal	B 450	400	400	300
EXCAVATION (width x length)	C 1000	800	600	400



NOTES
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NO ACCOUNT IS TAKEN FOR THE BLOCKING EFFECT CAUSED BY BUILDINGS, TREES ETC. THE CALCULATION SHOWN BY THIS DRAWING ASSUMES THAT THE WHOLE AREA BEING CONSIDERED IS IN THE SAME PLANE, I.E. THERE ARE NO CHANGES IN GRADIENT OR ELEVATION.

This drawing layout is based on calculated lighting levels, produced by Sabre Electrical Services Ltd., using Lighting Really software. Any alterations to the layout or luminaire type used for the lighting design calculations, will require a revised lighting design to be carried-out. A redesign may require approval from the Local Authority Public Lighting Dept. prior to any alterations/modifications being implemented on site.

Sabre
 ELECTRICAL SERVICES LTD.
 Specialist Contractors
 PUBLIC LIGHTING - FLOOD LIGHTING - SPORTS LIGHTING

UNIT 11,
 BELLVUE INDUSTRIAL ESTATE,
 FINGLAS,
 DUBLIN 11.
 E-MAIL: graham@sabrelighting.ie PH: 01-811 0875

- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----
- ?	GS	CHK	-----

REV	DESCRIPTION	INTS	CHK'D	DATE

CLIENT/CUSTOMER

Birchwell Ddevelopments

PROJECT
 Broomfield LRD

TITLE
 Public Lighting Layout

DRAWN A.N	SCALE 1:250@A1	DATE 27-02-26
DRAWING NUMBER SES 02726	ISSUE 1	

BASE DRAWING NUMBER

DRAWING ORIGIN

DO NOT SCALE FROM THIS DRAWING