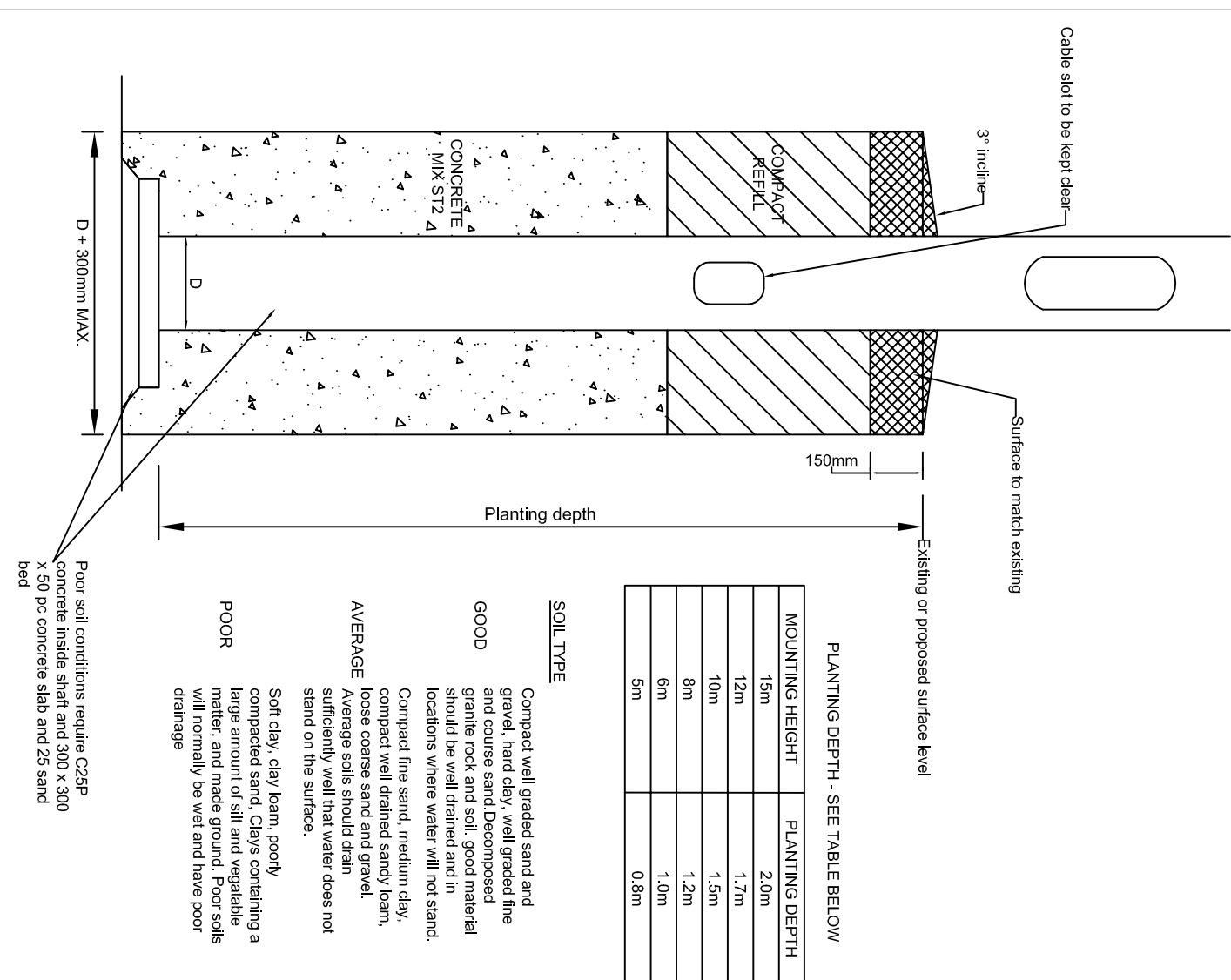
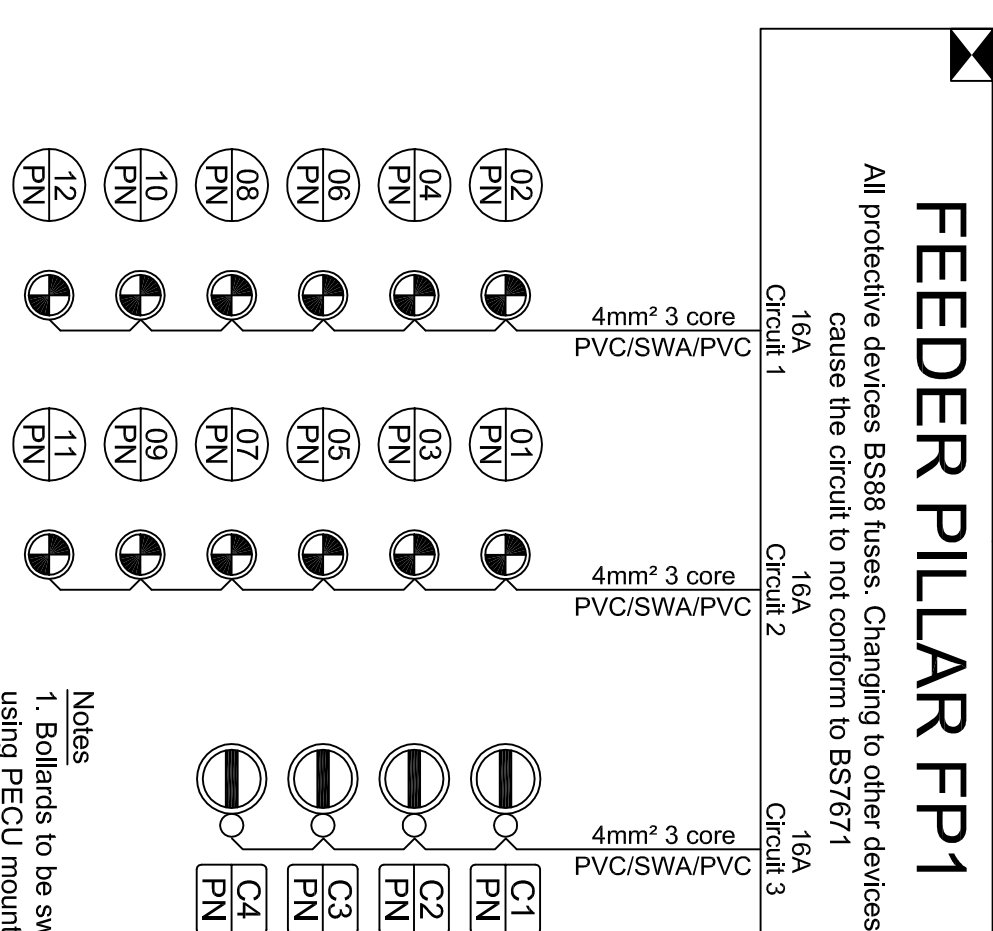
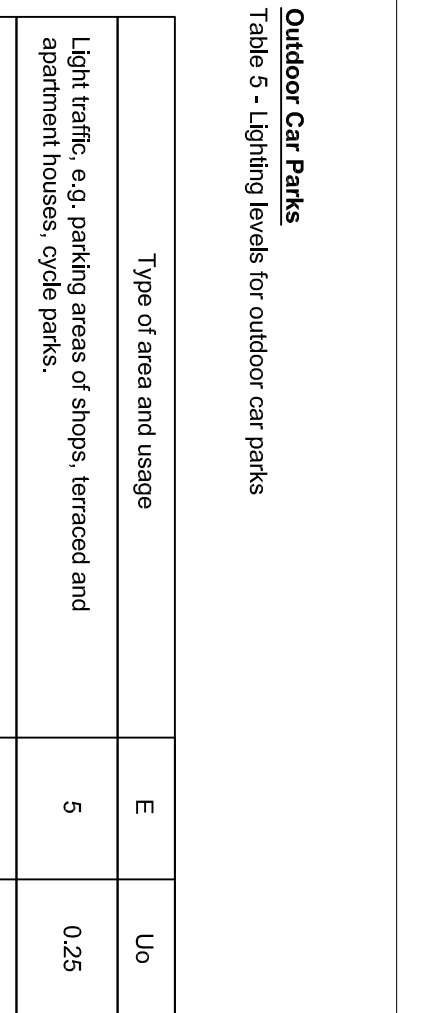
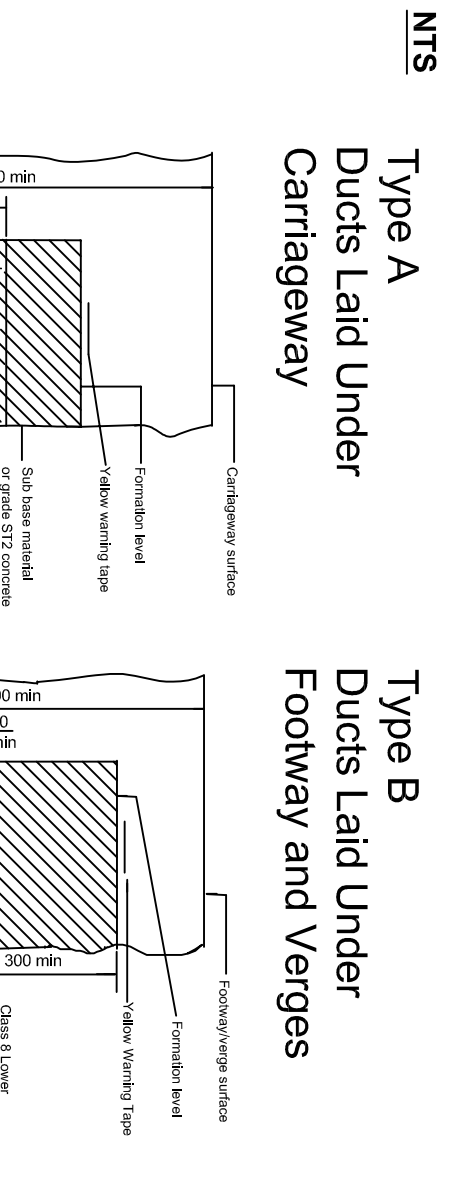
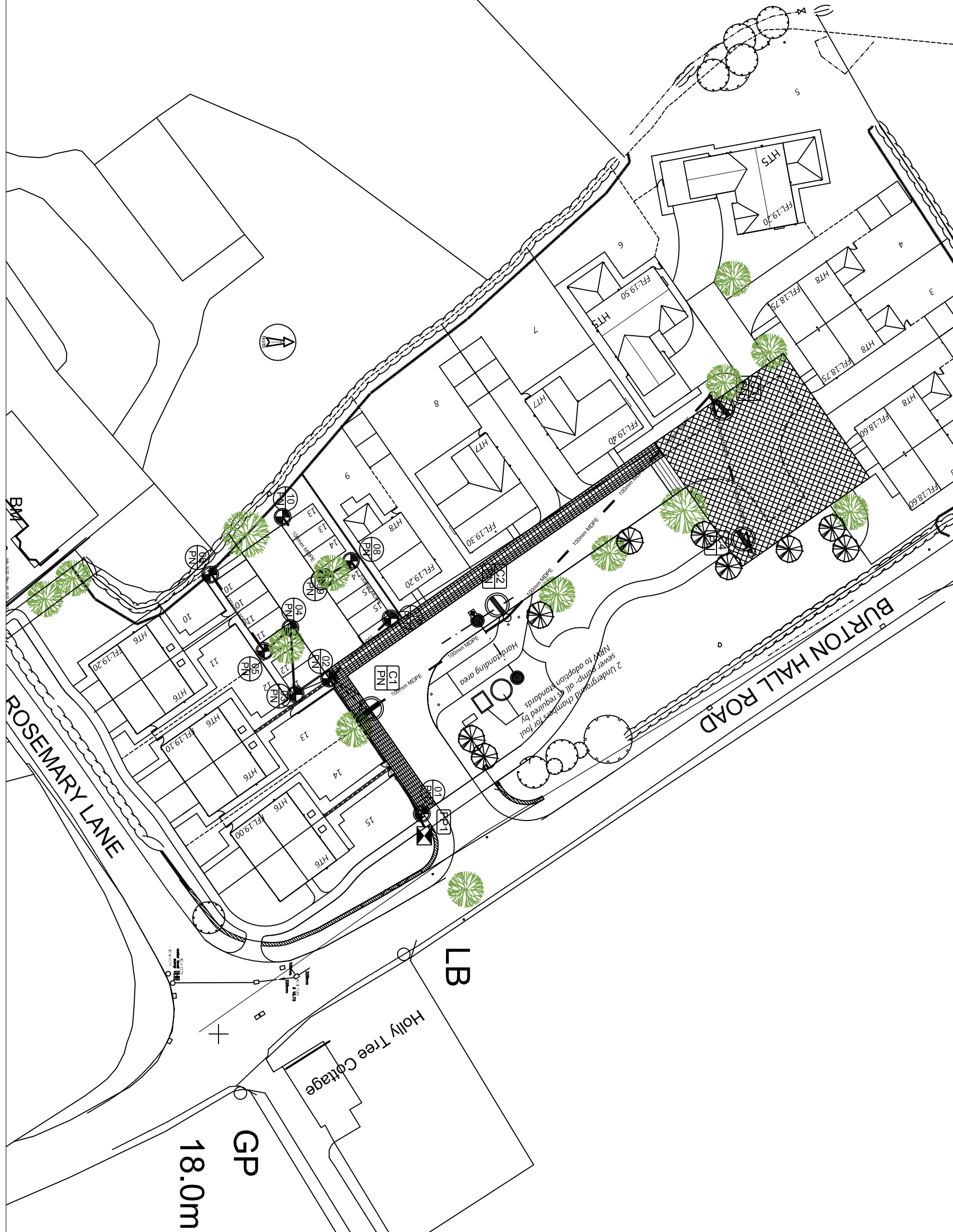




Type of area and usage	E	U ₀
Light traffic, e.g. parking areas of shops, terraced and apartment houses, cycle parks.	5	0.25
Medium traffic, e.g. parking areas of department stores, office buildings, plants, sports and multipurpose building complexes.	10	0.25
Heavy traffic, e.g. parking areas of schools, churches, major sports and multipurpose sports and building complexes.	20	0.25

Lighting Class	Benchmark (e.g. $R_c < 60$ or when S/P ratio of light source is not known or specified)		S/P ratio = 1.2 and $R_c \geq 60$ (e.g. some types of warm white lamp such as metal halide)		S/P ratio = 2 and $R_c \geq 60$ (e.g. some types of cool white compact fluorescent or LED)	
	$\bar{E}$	E_{lim}	$\bar{E}$	E_{lim}	$\bar{E}$	E_{lim}
P1 or S1	15.0	3.0	13.4	2.7	12.3	2.5
P2 or S2	10.0	2.0	8.6	1.7	7.7	1.5
P3 or S3	7.5	1.5	6.3	1.3	5.5	1.1
P4 or S4	5.0	1.0	4.0	0.8	3.4	0.7
P5 or S5	3.0	0.6	2.2	0.4	1.8	0.4
P6 or S6	2.0	0.4	1.4	0.4	1.1	0.4

SCALE: As Indicated	DESIGNED BY: SJM 19/05/14
SHEET NO.: Sheet 1 of 1	APPROVED BY: PDL 19/05/14

Proposed
Bolliard: Thom D-CO 1m Aluminium powder
 coated grey 900.
Lantern: 14W LED
Reference: Thom Lighting 96262100 (STD
 Standard)
Candela File: 96262100_(STD).IES
 Other: controlled via a PECU mounted on
 column C1

Thorn D-CO
(For illustrative use only)

Proposed:
Column: 6m galvanised steel column with
single door and flutemen coated painted roof
Lantern: Urbis Axiis 8 LED lantern
Mounting: post top at 0° tilt
Reference:
Cable file:
Axiis, 8LED, NeuL_VH_01_5079, 3.131FG2LDT
Other: integral driver
PECU: miniature PECU 33lux/18lux
Other: PECU on C1 used to switch bollard
lighting

(For illustrative use only)

4mm² 3 core PVC/SWA/PVC in 100mm orange MDPE duct including draw cord at 750mm cover across highway and car park and 450mm cover in footway and service strip.

Manufacturer: Ritherdon

Supply out: 3 x BS88 fused cable

Feeder pillar reference number.

PN

PN = Private Network

2.0 lux iso contour line (illustrative)

0.4 lux iso contour line (illustrative)

Notes

1. The installation contractor must be aware of any overhead obstructions. Advice should be sought from the developer's engineering representative.
2. Prior to excavation works the installation contractor must be aware of underground services or hazards which may be encountered in the installation of the lifting system. Advice should be sought from the developer's engineering representative.
3. All wiring including component labelling to be in accordance with BS7671.

DESIGN

A	Include private road Amend car park	23/05/14	MP	POL	
REV	DESCRIPTION	DATE	DRN	APP	
DRAWING NO: 14625-D-01					REV: A



PROJECT:
Burton Hall Road,
Rossett, Wrexham

Proposed Lighting and Installation Design Layout

SCALE: As Indicated

DESIGNED BY: SJM 19/05/14

SHEET NO: **Sheet 1 of 1**

APPROVED BY: **PDL** 19/05/14

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synergy in light

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ISO 9001