

SITE PLAN Scale 1:500
EXTERNAL LIGHTING LAYOUT

Scale 1:500 [m]
0 5 10 15 20 25 30 35 40 45 50

ILLUMINANCE STATISTICS					
DESCRIPTION	SYMBOL	AVG.	MAX	MIN	MIN / AVG
CAR PARK	+	10 LUX	27 LUX	4 LUX	0.40
CAR PARK ACCESS ROAD	+	10 LUX	29 LUX	4 LUX	0.40
CIRCULATION	+	10 LUX	31 LUX	3 LUX	0.30
COACH PARK	+	13 LUX	23 LUX	6 LUX	0.46
PATHWAY	+	13 LUX	30 LUX	6 LUX	0.46
PATHWAY	+	13 LUX	28 LUX	3 LUX	0.23
PERMETER	+	9 LUX	15 LUX	5 LUX	0.56



LUMINARE DATA

LUMINARE EFFICACY:	115.10lm/W
LUMINARE POWER:	78W
LUMINARE FLUX:	8978lm
LUMINARE COLOUR:	3000k
LUMINARE LENS:	FORWARD

A1 – HOLOPHANE FACTOR STREETLIGHT



LUMINARE DATA

LUMINARE EFFICACY:	117.82lm/W
LUMINARE POWER:	78W
LUMINARE FLUX:	9190lm
LUMINARE COLOUR:	3000K
LUMINARE LENS:	SYMMETRIC

A2 – HOLOPHANE FACTOR STREETLIGHT



LUMINARE DATA

LUMINARE EFFICACY:	67.92lm/W
LUMINARE POWER:	12W
LUMINARE FLUX:	815lm
LUMINARE COLOUR:	3000K
LUMINARE LENS:	ASYMMETRIC

B – HOLOPHANE DENVER ELITE BOLLARD

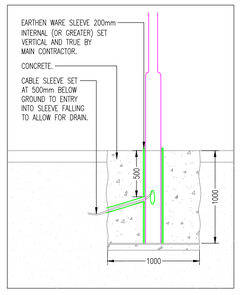


LUMINARE DATA

LUMINARE EFFICACY:	95.17lm/W
LUMINARE POWER:	12W
LUMINARE FLUX:	1142lm
LUMINARE COLOUR:	3000K
LUMINARE LENS:	NARROW

C – HOLOPHANE DENVER ELITE WALL

LIGHTING & EMERGENCY LIGHTING LEGEND		
SYMBOL	DESCRIPTION	MANUFACTURER REF.
A1	EXTERNAL LED 6m COLUMN MOUNTED LUMINAIRE.	HOLOPHANE EUROPE REF: FTS.3.LA103.FW
A2	EXTERNAL LED 6m COLUMN MOUNTED LUMINAIRE WITH SPILL SHIELD.	HOLOPHANE EUROPE REF: FTS.3.LA103.SY
B	EXTERNAL ILLUMINATED BOLLARD.	HOLOPHANE EUROPE REF: DEB.L01.3.PAY.DO
C	EXTERNAL WALL MOUNTED LUMINARE.	HOLOPHANE EUROPE REF: DEW.LA01.3.NR.CGL



TYPICAL COLUMN INSTALLATION DETAIL N.T.S

THIS DRAWING IS PROTECTED UNDER COPYRIGHT AND AT NO TIME MUST ANY PORTION OF THIS DRAWING BE REPRODUCED OR COPIED IN ANYWAY WITHOUT THE WRITTEN CONSENT OF THORNLEY & LUMB PARTNERSHIP LIMITED.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE AND MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING. THIS DRAWING IS TO BE READ IN ACCORDANCE WITH ALL RELEVANT SPECIFICATIONS AND ROOM DATA DOCUMENTS.

NOTES

LIGHTING DESIGN

WITHIN THE PROPOSED LEISURE CENTRE DEVELOPMENT, THERE IS A REQUIREMENT FOR LIGHTING TO THE CAR PARK AND WALKWAYS, THEREFORE THE FOLLOWING WORKS WILL BE REQUIRED:

- THE NEW PROPOSED CAR PARK, 9 x WALL LUMINARIES, 11 x BOLLARDS & 12 x 6m NEW LIGHTING COLUMNS ARE REQUIRED TO ACHIEVE THE REQUIRED LIGHTING LEVELS. SEE ADJACENT LAYOUT FOR DETAILS.
- ALL EXTERNAL LIGHTING IS TO BE CONTROLLED VIA A 24/7 TIME CLOCK IN CONJUNCTION WITH A PHOTOCELL OVERRIDE.
- WITH RESPECT TO THE OVERALL ASSESSMENT AND CALCULATIONS CARRIED OUT, THE EXTERNAL LIGHTING INDICATED AND POLLUTION LEVELS ARE NOT INFLUENCED BY THE PROPOSED NUMBER AND LOCATIONS OF LIGHTING COLUMNS.
- IN SUMMARY ITS OUR CONSIDERED OPINION THAT THE NEW LIGHTING SCHEME PROPOSED WILL HAVE MINIMAL LIGHTING IMPACT TO THE SURROUNDING AREAS.
- CONTROL MEASURES HAVE BEEN INTRODUCED TO REDUCE OR ELIMINATE WHERE POSSIBLE MINIMISING THE IMPACT OF NUISANCE GLARE, OVERSPILL LIGHTING, HAZE REDUCTION & ZERO UPWARD LIGHT.

BS5489 PROVIDE GUIDELINES FOR LIGHTING PERFORMANCE CRITERIA. THE FOLLOWING ASSUMPTIONS ARE MADE:

- THE AREA TO BE ILLUMINATED IS CLASSIFIED AS A MIXED VEHICULAR AND PEDESTRIAN AREA ON THE SAME SURFACE

NOTE – THE EXTERNAL LIGHTING SCHEME IS TO COMPLY WITH THE FOLLOWING:

ILP: GUIDANCE FOR THE REDUCTION OF OBSTRUCTIVE LIGHT GN01:2020

CIBSE LIGHTING GUIDE LG6 – (2016) THE EXTERIOR ENVIRONMENT

THIS DRAWING IS PRODUCED IN ACCORDANCE WITH ARCHITECTS/MAIN CONTRACTORS DRAWING REFERENCE

1789-SBA-PP-XX-DR-A-5003 Rev-N

REV	DESCRIPTION	DRN	CHK	DATE
A	UPDATED TO LATEST ARCHITECT PLANS	TVC	JF	25.11.20

PLANNING

Client
Pellikaan Construction Ltd
38 Graemesdyke Avenue
East Sheen
London, SW14 7BJ
Tel: 0208 392 9355
Email: info@pellikaan.co.uk

Pellikaan
DESIGN • BUILD • OPERATE

Architect
Saunders Boston Architects
Eastern Gate House
119 Newmarket Road
Cambridge, CB5 8HA
Tel: 01223 367 733
Email: office@saundersboston.co.uk

Thornley & Lumb
Mechanical and Electrical Consultant Engineers
Century House
257 Cutler Heights Lane
Bradford
West Yorkshire
BD4 9JG
Telephone: 01274 687755
www.thornleylumb.co.uk cad@thornleylumb.co.uk

Project Number	Project Name
C7402	Reading Palmer Park Sport Centre

Drawing Title
Site Plan
External Lighting Layout

Engineer	Checked by	Drawn By
NM	JF	BA

Date	Scale	Size
19.11.20	1:500	A1

Drawing Number

Project	Originator	Volume	Level	Type	Role	Number	Revision
C7402	TLP	00	00	DR	E	801	A