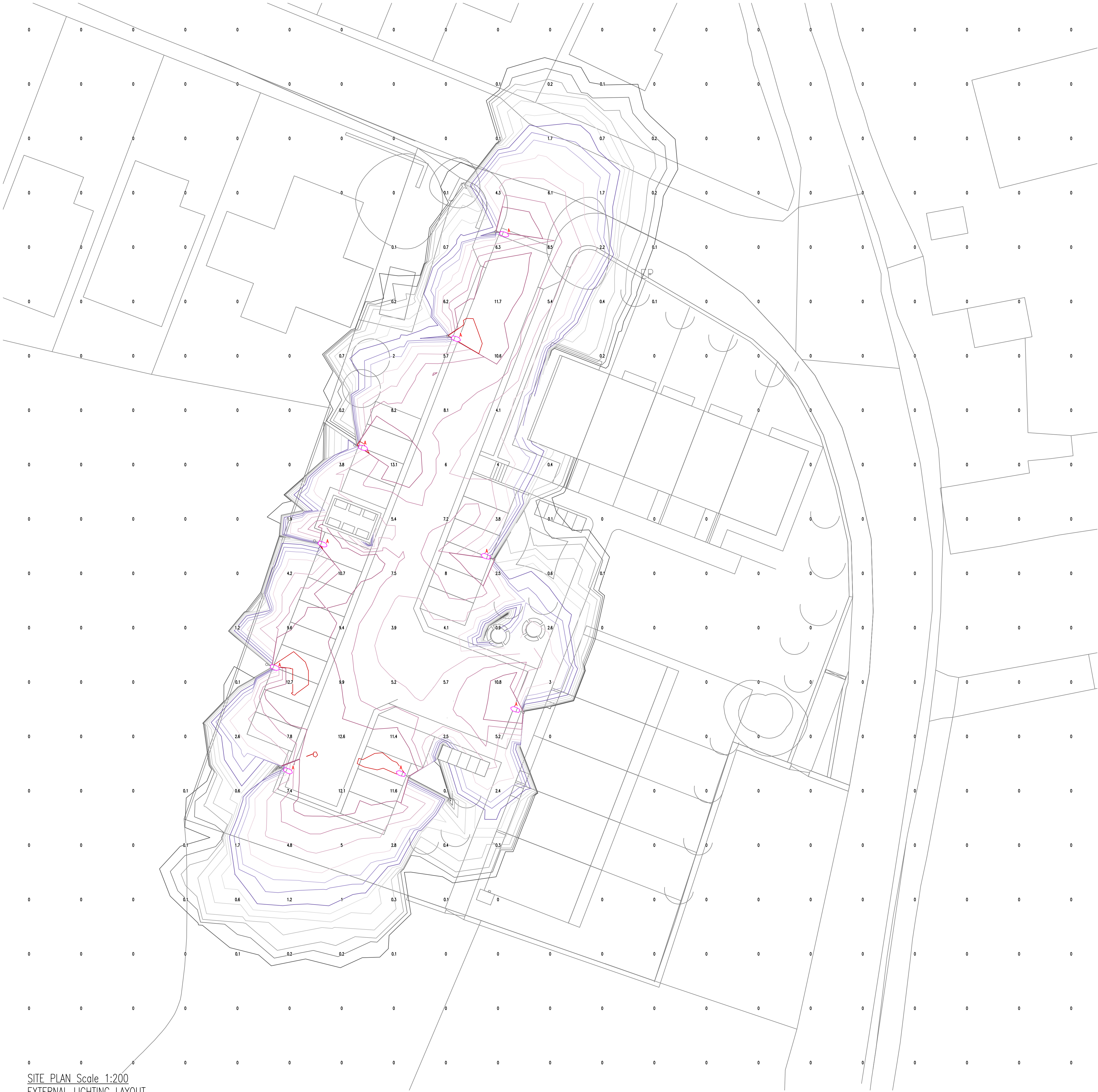
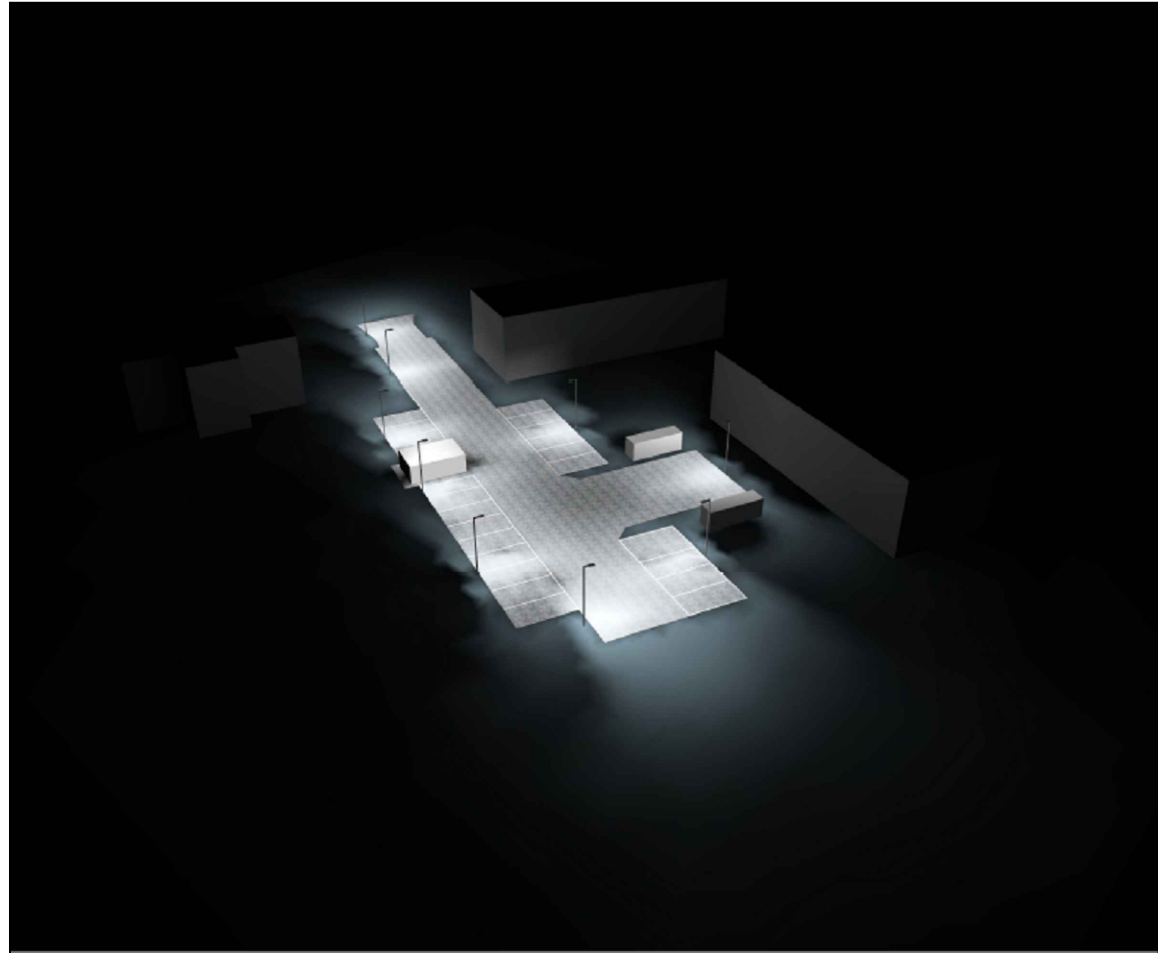
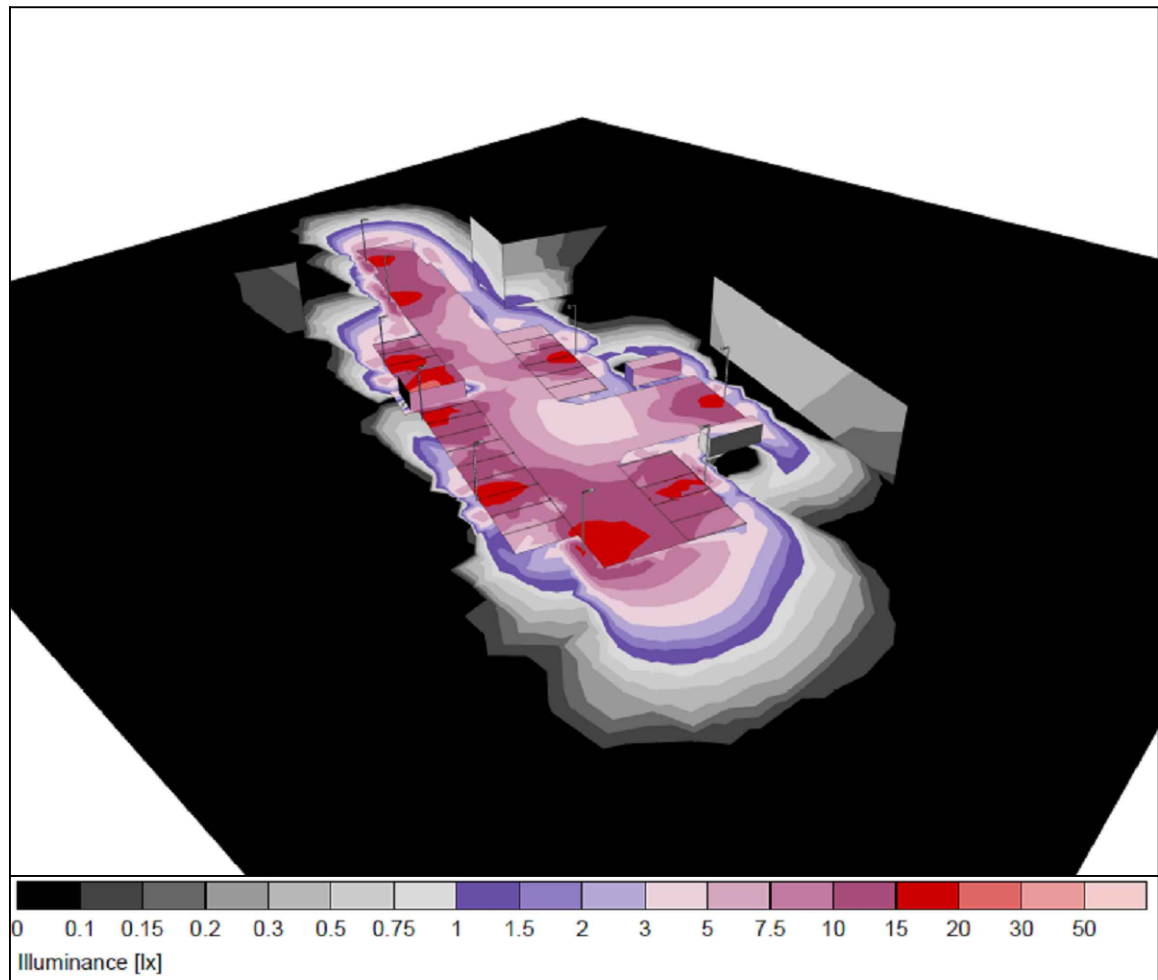




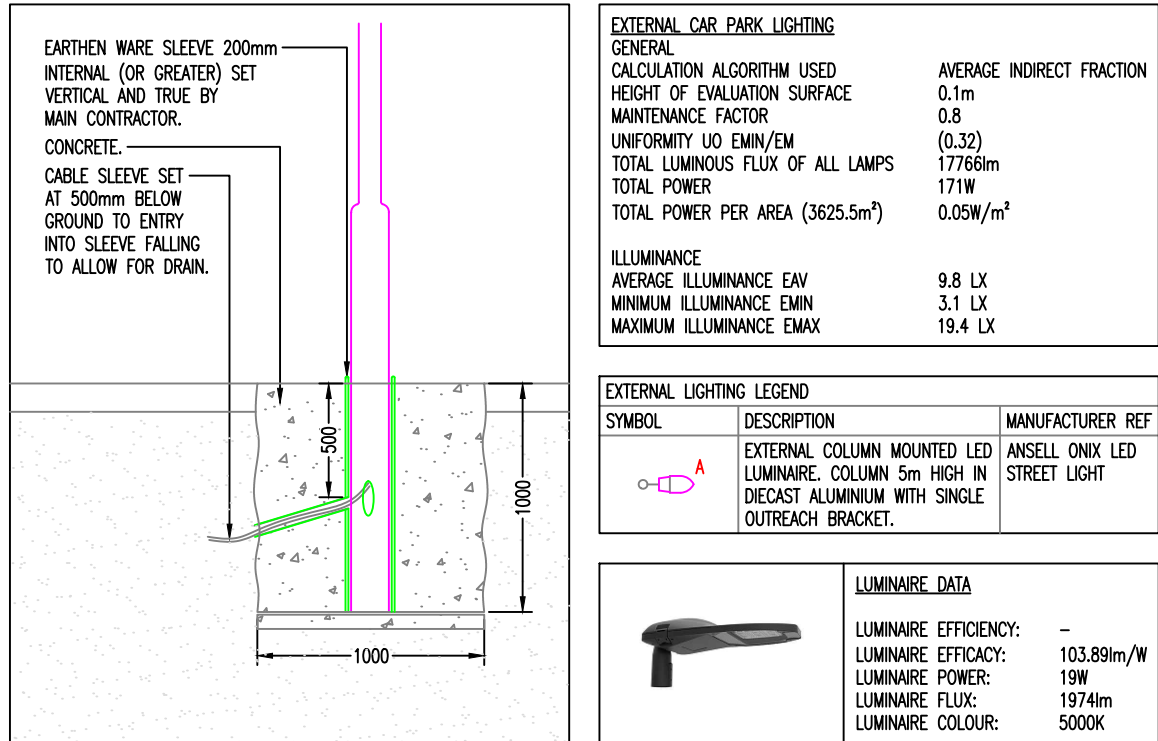
SITE PLAN Scale 1:200
EXTERNAL LIGHTING LAYOUT



CARPARK – ILLUMINATION VIEW N.T.S



CARPARK – PSEUDO COLOURS VIEW N.T.S



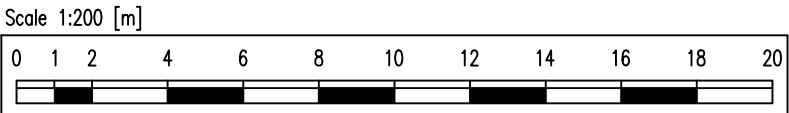
TYPICAL COLUMN INSTALLATION DETAIL N.T.S

EXTERNAL CAR PARK LIGHTING		
GENERAL		
CALCULATION ALGORITHM USED	AVERAGE INDIRECT FRACTION	0.1m
HEIGHT OF EVALUATION SURFACE	MAINTENANCE FACTOR	0.8
UNIFORMITY (U0) EMM/CM	TOTAL LUMINOUS FLUX OF ALL LAMPS	(0.32)
TOTAL POWER	1776lm	171W
TOTAL POWER PER AREA (3625.5m²)	0.05W/m²	
ILLUMINANCE		
AVERAGE ILLUMINANCE EMM	9.8 LX	
MINIMUM ILLUMINANCE EMM	3.1 LX	
MAXIMUM ILLUMINANCE EMM	19.4 LX	

EXTERNAL LIGHTING LEGEND		
SYMBOL	DESCRIPTION	MANUFACTURER REF
	EXTERNAL COLUMN MOUNTED LED LUMINAIRE COLUMN 5m HIGH IN DIECAST ALUMINIUM WITH SINGLE OUTREACH BRACKET.	ANSELL ONIX LED STREET LIGHT

LUMINAIRE DATA	LUMINAIRE EFFICIENCY:	103.89lm/W
	LUMINAIRE EFFICACY:	198
	LUMINAIRE FLUX:	1974lm
	LUMINAIRE COLOUR:	5000K

A – ANSELL ANONX LED/1



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 THORNFLEY & 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

AS PART OF THE DEVELOPMENT, THERE IS A REQUIREMENT FOR LIGHTING TO THE ROAD & CAR PARK OF THE DEVELOPMENT, THEREFORE THE FOLLOWING WORKS WILL BE REQUIRED:

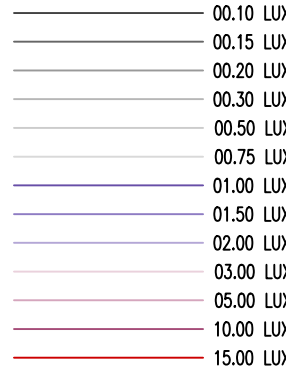
- DUE TO THE PROPOSED CAR PARK 5m NEW LIGHTING COLUMNS ARE REQUIRED TO ACHIEVE THE REQUIRED LIGHTING LEVELS. SEE SITE LAYOUT FOR DETAILS.
- ALL EXTERNAL LIGHTING IS TO BE CONTROLLED VIA A 24/7 TIME CLOCK IN CONJUNCTION WITH A PHOTOCELL.
- WITH RESPECT TO THE OVERALL ASSESSMENT AND CALCULATIONS CARRYOUT, 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 WILL HAVE MINIMAL LIGHTING IMPACT TO THE SURROUNDING AREAS.

BSS489 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 LIGHTING SCHEME IS TO COMPLY WITH THE ILP GUIDANCE FOR THE REDUCTION OF OBSTRUCTIVE LIGHT (GN01:2021)

LUX LEVEL LEGEND



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

(462)-GWP-01-01-DR-A-(PA)-0003 P07

P1	PLANNING ISSUE	CB	MT	05.04.22
REV	DESCRIPTION	DRN	CHK	DATE

PLANNING

Client
EcoHolmes
Overbrook House
Holt Lane
Holmfirth
West Yorkshire
HD9 3BW

Architect
GWP Architecture
1 Lidgett lane,
Gledhow
Leeds, LS8 1PQ
Tel: 0173 266 6044
www.gwp-arch.com



Thornley & Lumb
Building Services Consultant Engineers
Head Office:
Century House, 257 Cutler Heights Lane
Bradford, West Yorkshire, BD4 9JG
Telephone: +44(0)12 7468 7755
Southern Office:
The Strand, London, WC2N 6AA
Telephone: +44(0)20 7520 9355
www.thornleylumb.co.uk info@thornleylumb.co.uk

Project Number
C8140

Project Name
EcoHolmes, Chippings
Huddersfield

Drawing Title
Site Plan
External Lighting Layout

Engineer	CB	Checked by	AA	Drawn By	CB
Date	21.03.22	Scale	1:200	Size	A1

Project	Originator	Volume	Level	Type	Role	Number	Revision
C8140 - TLP - 00 - XX - DR - E	- 801	P1					