



- LEGEND:**
- FITTING REF
X1de
SUFFIX
SUFFIX 'd' ON ANY LUMINAIRE DENOTES LUMINAIRE IS DALI CONTROLLED
SUFFIX 'e' ON ANY LUMINAIRE DENOTES LUMINAIRE IS C/W 3 HR EMERGENCY BATTERY BACK UP
- X1
WALL MOUNTED, EXTERIOR LUMINAIRE, ASYMMETRIC OPTIC, IP65, FIXED OUTPUT, 2.7M WALL-MOUNTED LUMINAIRE TO BUILDING PERIMETER AND PUBLIC ENTRANCE.
TYPICAL FITTING: TRILUX, SKEO CURV AS 4000K, LED, 13W, 1700 LUMENS, ULOr 0%, IP65, IK10
- X2
ASYMMETRICAL LIGHTING DISTRIBUTION LED POLE-TOP LUMINAIRE MOUNTED ON 4m LIGHTING COLUMNS
TYPICAL FITTING: TRILUX, LIQ50N 4000K, LED, 17.5W, 2200 LUMENS, ULOr 0%, IP66, IK08
- PC
EXTERNAL PHOTOCELL

- ISOLINES / PSEUDO COLOURS (lx)
- 0.1 LUX
 - 0.25 LUX
 - 0.5 LUX
 - 1 LUX
 - 5 LUX
 - 10 LUX
 - 15 LUX
 - 20 LUX
 - 30 LUX
 - 50 LUX

POST TOP LUMINAIRES MOUNTED ON 4m LIGHTING COLUMNS

SITE BOUNDARY LINE (IN RED)

LIGHTING CALCULATIONS WITH ALL CAR PARK AND BUILDING MOUNTED LIGHTING ON

CALCULATION SURFACES				
NO.	E _{av} (lx)	E _{min} (lx)	E _{max} (lx)	U _o
1	14.4	4.5	34.8	0.32
2	21.6	11.1	41	0.51
3	19.1	10	38.4	0.52
4	14.1	3.3	36.5	0.23
5	14.5	5.7	34.6	0.39

- ① 7th PARKING BAYS
② 1th PARKING BAYS
③ 1th PARKING BAYS
④ CAR PARK
⑤ CAR PARK INCLUDING PARKING BAYS

X1 AND X2 FITTING COMPLY WITH SKYGLOW WITH 0% ULR.
EXTERNAL LIGHTING CONTROLS ARE PROPOSED TO BE CONNECTED AND CONTROLLED IN GROUPS. ALL EXTERNAL LIGHTING SHALL BE CONTROLLED VIA A SEPARATE 3-POSITION SWITCH (ON, OFF, AUTO), TIMECLOCK, PHOTOCELL ARRANGEMENT WITH HOURS OF OPERATION TO BE SET BETWEEN 23:00 AND 07:00. (FINAL HOURS OF OPERATION TO BE CONFIRMED BY CLIENT)

Origin Arch.	Rev.	Cad Ref
Origin Struc.	Rev.	Drawn by

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Standard Notes
1. ALL DIMENSIONS TO BE VERIFIED FROM SITE MEASUREMENT.
2. DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

NOTES:

GENERAL

- THE CALCULATION SITE WIDE MODEL WAS PREPARED USING INDUSTRY STANDARD SOFTWARE RELUX, WITH THE ILLUMINANCE LEVELS OUTPUTTED.
- THIS DRAWING REPRESENTS THE 'WORST CASE SCENARIO' WITH ALL LIGHTS ON AND DOES NOT INCLUDE ANY PLANTING/ HEDGEROWS/ TREES AND THERE SCREENING EFFECT.
- LIGHTING CALCULATION MAINTENANCE FACTOR SET TO 1 FOR FOR 'DAY 1' OPERATION OF LUMINAIRES.
- FOR OBTUSIVE LIGHT CALCULATIONS, AN ENVIRONMENTAL ZONE OF E3 HAS BEEN ASSUMED WHICH IS DESCRIBED AS BEING IN A SUBURBAN SURROUNDING WITH MEDIUM DISTRICT BRIGHTNESS WHICH SETS OUT THE FOLLOWING CRITERIA:
4.1. SKY GLOW ULR MAX% = 5
4.2. PRE-CURFEW = 10LUX
4.3. POST CURFEW = 2LUX

ELECTRICAL SERVICES

- THE ELECTRICAL INSTALLATION IS TO BE IN COMPLIANCE WITH THE RECOMMENDATIONS OF 'BS 7671:2018+A2:2022 - IET WIRING REGULATIONS 18th EDITION.
- LIGHTING TO BE INSTALLED PLUM AND SQUARE ONTO PREPARED FOUNDATIONS. FOUNDATION DESIGN BY SPECIALIST AND TO INCORPORATE FIXING STUDS AS PROVIDED BY LIGHTING SPECIALIST.
- ALL LUMINAIRES TO BE INSTALLED IN LINE WITH MANUFACTURES RECOMMENDATIONS AND INSTALLATION DETAILS.
- ALL LUMINAIRES TO BE COORDINATED WITH LANDSCAPE DESIGN. FINAL SETTING OUT TO BE CONFIRMED BY ARCHITECT / LANDSCAPE DESIGN SPECIALIST.
- LUMINAIRES TO BE SUPPLIED COMPLETE WITH LAMPS OF THE COLOUR TEMPERATURE SPECIFIED IN THE LUMINAIRE SCHEDULE.
- EMERGENCY FITTINGS TO ACCOMMODATE AN INTEGRAL CHANGEOVER RELAY TO SWITCH TO EMERGENCY BATTERY SYSTEM ON MAINS FAILURE CONDITION.
- EACH COLUMN TO BE PROVIDED WITH FUSED CUT-OUTS. SIMPLE FUSED CONNECTIONS UNITS WILL NOT BE ACCEPTED.

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Version	Date	Description	By	Chkd

Drawing Status
FOR PLANNING

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Project
BURNSIDE PUPIL REFERRAL UNIT

Drawing Title
**ELECTRICAL SERVICES
EXTERNAL LIGHTING**

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SRP1055-SIL-XX-XX-D-E-3601		P01	
Scale	Date	Engineer	Checked
1:200@A1	OCT'24	AA	JdB