



GENERAL NOTES

- All documents shall be checked to ensure they are compatible by the contractor before construction commences.
- In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
- Before construction commences, the site engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
- SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced.
- This lighting design has been prepared in accordance with the HEMSA/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and safety duties and roles - 9. Duties of designers.

NOTES

- All drawings and documents are to be read in conjunction with one another and are mutually compatible and shall be read as such.
- Any inaccuracies are to be reported to the overseeing organisation immediately.
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
- It should be assumed by the contractor that not all services have been identified during the design period.
- It is the responsibility of the contractor to take all necessary steps to ensure that any such unidentified services are carefully located and not damaged.
- The contractor shall identify the location of any overhead electrical or communication equipment prior to the undertaking of any onsite works. Should the presence of such equipment be identified, the contractor shall consult with the relevant statutory undertaker for further guidance.
- Electrical installation work shall be carried out in accordance with the requirements of the latest edition of the IET wiring regulations, BS 7671.
- The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels. Due to the layout of the plots and associated driveways it is inevitable that there will be conflict with proposed landscaping features. Where such instances occur the street lighting column locations will take precedence in order to satisfy the requirements of the British Standard.
- 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 and no account has been taken for the blocking effect caused by buildings, trees, etc.
- Final lighting column positions shall be agreed onsite with the overseeing organisation.
- Lighting column foundations shall be designed in accordance with the manufacturer datasheet's for the columns and soil types present.
- Lighting columns shall be located to the rear of the footpath or verge, unless stated otherwise. If this is not possible the minimum setback distance for any lighting column to be erected from the kerb face shall be 800mm.
- Before construction commences, the site engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the designers.
- Column positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints subject to designers approval.
- The developer will be required to arrange payment for any energy liability charges with their electricity supplier and will be responsible, unconditionally, for the condition operation and any risk or liability of all the street lighting equipment on all privately owned sections of the development.

STATUTORY SERVICE NOTES

- Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
- All services are to be located and identified prior to installing or removing any lighting columns.
- Installation and Removal works should be carried out in accordance with Energy Network Association Technical Specification 43-8, Electricity at Work Regulations 1989, Construction Design and Management (CDM) 2015 & G39/1 and all other relevant Health and Safety Executive regulations.
- All works in the vicinity of any overhead cables shall conform to the requirements of Health and Safety Executive, Guidance Note GS6 "Avoidance of danger from overhead power lines"
- All works in the vicinity of underground mains or cables shall conform to the requirements of Health and Safety Executive, Health and Safety Guidance HGS47 "Avoiding danger from underground services" and any additional requirements specified by the relevant undertaker.
- The contractor will be responsible for liaison with the undertakers and for programming the agreed protection and / or diversion works to any statutory undertakers apparatus into the overall works programme

CAR PARK LIGHTING CLASSIFICATION

Lighting classification: BS 5489-1:2020, Table 4 & BS EN 12464-2: 2014, Table 5.9

Maintained lighting levels for outdoor car parks
Light traffic: parking areas of shops, terraced & apartment houses, cycle parks

Minimum maintained average illuminance (Eav): >5.00 lux
Lighting Uniformity (Emin/Eav) > 0.25 (25%)

The details provided on this drawing are subject to comments by all the relevant approving authorities or overseeing organisation. No construction works shall take place until technical approval has been obtained by the approving authority or overseeing organisation.
It is to be understood that these drawings and the information shown are preliminary only and shall not be used for construction. Should the contractor commence work on site prior to obtaining technical approval, then it is entirely at their own risk and no liability shall be accepted by SHD Lighting Consultancy Ltd.

Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base with glass flake root protection. Column to be manufactured to: EN 40, BS EN 1461 & BS 5649 standards	
Luminaire:	Philips Luma Gen2 Micro
Mounting Type:	Post top mounted
Manufacturer Ref:	BGP702 DW50 BL1 3400 20LED 5.2S CLO L90 830
Lumen Output:	3,400lm
Charge Code:	42 0024 0000 100
Luminaire Wattage:	24w
Colour Temperature:	Warm White (3000k)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G3
Control Gear:	Integral driver
Control Type:	Lucy Zodion ZCELL 20 lux (1:1 ratio)
Dimming Profile:	N/A
Supply:	Private cable network
Primary Isolator:	Double pole Isolator with 32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Secondary Isolator:	N/A
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable
Door Orientation:	Perpendicular to kerb edge

Proposed illuminated bollard of 1000mm nominal height with a planted base as supplied by Gemma Lighting finished in black finish.	
Bollard Reference:	Westminster
Bollard Type:	WBD10-AW-04GH-950 180°
Mounting Type:	Root Mounted
Lumen Output:	0.50 km
Charge Code:	42 0010 0000 100
Luminaire Wattage:	10w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G1
Control Gear:	Integral driver
Control Type:	Miniature internal photocell
Supply:	Private cable network
Primary Isolator:	Double pole Isolator with 32A double pole switch with BS88-2 6A HRC fuse within base compartment of each bollard.
Proposed 6mm² XLPE/SWA/PVC 3 core cable with copper conductors laid in 100mm orange UPVC ducting denoted with 'STREET LIGHTING' at 1000mm intervals diametrically opposed, laid in trench, depth to invert to be minimum 450mm in footway and minimum 750mm in carriageway	

Ducting location's shown on this drawing are indicative only and final setting out positions to be determined by the site engineer or overseeing organisation.

UNIT IDENTIFICATION KEY	
PR**	Private lighting column identification number
B**	Illuminated bollard identification number
ELECTRICAL CONNECTION TYPE	
T**	Private cable termination type: Refer to SHD609-SHD-HEL-MILL-DR-EO-Electrical-R0
ISOLUX CONTOUR KEY	
0.20 Isolux contour line	
0.50 Isolux contour line	
1.00 Isolux contour line	
5.00 Isolux contour line	
10.00 Isolux contour line	

Contour lines shown are as recommended in GN08/18 (Bats and artificial lighting) as published by The Institution of Lighting Professionals.

R2	ADDED SOUTH SECTION LIGHTING COLUMNS AND BOLLARDS	02/04/2024	SRH
R1	REMOVED LIGHTING COLUMNS AND BOLLARDS	20/03/2024	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	21/06/2022	SRH
REV	DESCRIPTION	DATE	BY

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SCHEME:	MILLTOWN, GLOSSOP				
DRAWING:	PRIVATE LIGHTING DESIGN				
CLIENT:	WATSON HOMES				
DRAWING NUMBER:	SHD609-SHD-HLG-MILL-DR-EO-Ed-Lighting Layout-R2	DRAWN:	SRH		
	SHEET 1 OF 1	CHECKED:	SRH		
CONTRACT NUMBER:	SHD609	DATE:	21/06/2022	APPROVED:	
				SCALE @ A1:	1:500
				REVISION:	R2

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION