



- 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.
 - SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced.
 - 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.
 - 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.
 - Current statutory service record plans should be obtained by the contractor / overseeing organisation before 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. All works should be carried out in accordance with HSE GS6, ENA 43-6, HSE HGS47, G39/1 and all relevant HSE regulations
- NOTES**
 - Any inaccuracies are to be reported to the overseeing organisation immediately.
 - 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.
 - Any existing or proposed trees are to be cutback, removed or relocated elsewhere to avoid interference with the street lighting luminaire or prevent any future access or maintenance.
 - 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.

- 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: ENA TS 43-6, EAWR 1989, CDM 2015 & G39/1 and all other relevant HSE regulations.
 - All works in the vicinity of any overhead cables shall conform to the requirements of HSE guidance note GS6 "avoidance of danger from overhead lines".
 - All works in the vicinity of underground mains or cables shall conform to the requirements of HSE guidance note 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

LIGHTING CLASSIFICATION
This lighting design has been produced in accordance with current: BS 5489-1:2020, BS EN 12464-2:2014 & BS EN 13201-2:2015 outdoor lighting documents and guidelines.

Lighting classification: (BS EN 12464-2:2014, Table 5.9)

Light Traffic Car Park required lighting levels:
Minimum maintained average illuminance (Eav): >5.00 lux
Emin/Eav (uniformity): >0.25 (>25%)

**Lighting Column:**

Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base as supplied by Mallatite. Column to be factory finished in black RAL 9005 painted finish

Column Reference: Philips Digistreet Micro luminaire, to be supplied with black (RAL 9005) luminaire body

Luminaire Type: BGP760 DW50 4400_20LED 5.1S CLO L90 CW

Luminaire Reference: Post top mounted

Mounting Type: 0"

Luminaire Tilt: 4.40 km

Lumen Output: 42 0025 0000 100

Charge Code: 25 w

Luminaire Wattage: Neutral White (4000k)

Colour Temperature: G3

Luminous Intensity: Electronic Control Gear

Control Gear: Lucy Zodion ZCELL 20lux (1:1 ratio)

Dimming Profile: N/A

Supply: Private Cable Network

Primary Isolator: Double pole Isolator with 32A double pole switch with BS88-2 6A HRC fuse to luminaire

Secondary Isolator: N/A

Internal Wiring: Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable.

Door Orientation: Main Road - Perpendicular to kerb
Side Road - Facing road

**Proposed 450mm x 450mm composite modular chamber to provide duct access complete with lockable heavy duty cover and frame denoted "STREET LIGHTING" on cover.**

**Proposed galvanised steel feeder pillar incorporating single phase electrical Keth meter and DNO electrical supply connection (Model: TOFCO Ltd - FP140 or equivalent), supplied in factory applied black (RAL 9005) paint finish**

**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**

Feeder pillar, chambers and ducting location's shown on this drawing are indicative only and final setting out positions to be determining by the site engineer or overseeing organisation.

**Proposed S38 lighting column. Refer to "SHD379-SHD-HLG-MORR-DR-EO-Design Layout-R1" for further details**

UNIT IDENTIFICATION KEY:

PR** Private lighting column identification number

T** Termination type: Refer to- SHD380-SHD-HEL-MORR-DR-EO-Electrical Terminations-

FP** Proposed metered feeder pillar identification number

ELECTRICAL CONNECTION TYPE:

IDNO Proposed Independent DNO supply connection

ISOLUX CONTOUR KEY:

0.60 Isolux contour line

1.00 Isolux contour line

2.00 Isolux contour line

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.

R1	RELOCATED FEEDER PILLAR	06/12/2021	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	19/10/2021	SRH
REV	DESCRIPTION	DATE	BY

**SHD**
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SCHEME:	MORRIS STREET, RADCLIFFE		
DRAWING:	PRIVATE LIGHTING DESIGN		
CLIENT:	WATSON HOMES		
DRAWING NUMBER:	SHD380-SHD-HLG-MORR-DR-EO-Design Layout-R1	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
		APPROVED:	
CONTRACT NUMBER:	SHD380	DATE:	19/10/2021
		REVISION:	R1

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION