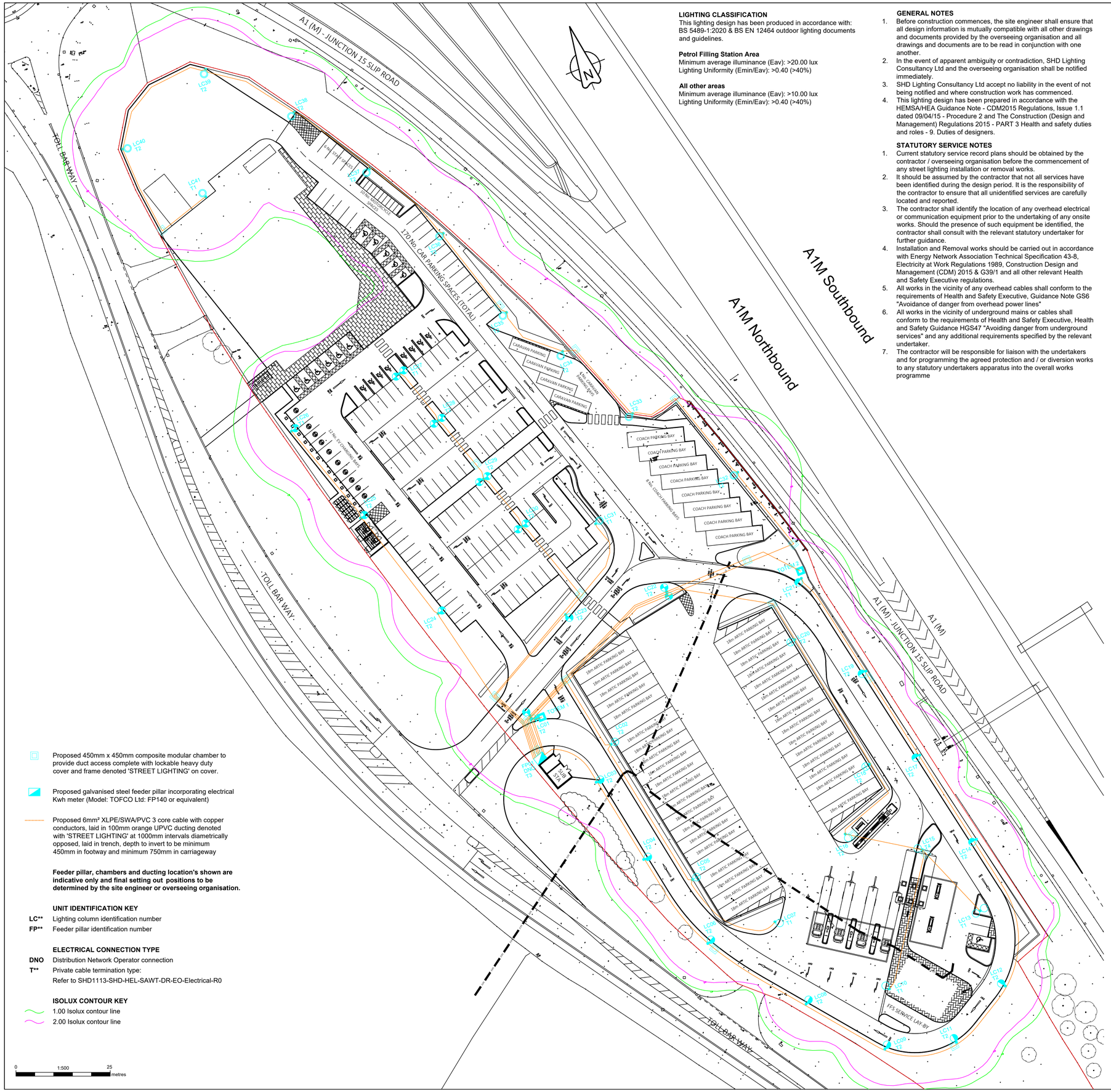

LIGHTING CLASSIFICATION
This lighting design has been produced in accordance with: BS 5489-1:2020 & BS EN 12464 outdoor lighting documents and guidelines.

Petrol Filling Station Area
Minimum average illuminance (Eav): >20.00 lux
Lighting Uniformity (Emin/Eav): >0.40 (>40%)

All other areas
Minimum average illuminance (Eav): >10.00 lux
Lighting Uniformity (Emin/Eav): >0.40 (>40%)

GENERAL NOTES

1. Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
2. In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
3. SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced.
4. 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.

STATUTORY SERVICE NOTES

1. Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
2. 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 ensure that all unidentified services are carefully located and reported.
3. 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.
4. 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.
5. 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"
6. 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.
7. 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

Qty 11
Proposed galvanised tubular steel lighting column of 8.0 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 as supplied by Mallatite, CU Phosco, Fabrikat, Valmont Stainton or similar.

Luminaire Type:	Urbis Schreder Axia 3.2
Luminaire Reference:	AXIA 3.2 5293 32 OLSON SQUARE GIANT 700mA WW 730 444502
Mounting Type:	Post top mounted at 0° tilt
Lumen Output:	8.91klm
Luminaire Wattage:	69w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G3
Control Type:	Lucy Zodion ZCELL 20lux (1:1)
Supply:	Private Cable Network
Primary Isolator:	32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable

Qty 4
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 as supplied by Mallatite, CU Phosco, Fabrikat, Valmont Stainton or similar.

Luminaire Type:	Urbis Schreder Axia 3.2
Luminaire Reference:	AXIA 3.2 5293 32 OLSON SQUARE GIANT 700mA WW 730 444502
Mounting Type:	Post top mounted at 0° tilt
Lumen Output:	8.91klm
Luminaire Wattage:	69w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G3
Control Type:	Lucy Zodion ZCELL 20lux (1:1)
Supply:	Private Cable Network
Primary Isolator:	32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable

Qty 1
Proposed galvanised tubular steel lighting column of 8.0 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 as supplied by Mallatite, CU Phosco, Fabrikat, Valmont Stainton or similar.

Luminaire Type:	Two x Urbis Schreder Axia 3.2
Luminaire Reference:	AXIA 3.2 5293 32 OLSON SQUARE GIANT 700mA WW 730 444502
Mounting Type:	Side entry mounted on twin 300mm outreach bracket at 0° tilt
Lumen Output:	8.91klm
Luminaire Wattage:	69w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G3
Control Type:	Lucy Zodion ZCELL 20lux (1:1)
Supply:	Private Cable Network
Primary Isolator:	32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable

Qty 4
Proposed galvanised tubular steel lighting column of 10.0 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 as supplied by Mallatite, CU Phosco, Fabrikat, Valmont Stainton or similar.

Luminaire Type:	Urbis Schreder Axia 3.3
Luminaire Reference:	AXIA 3.3 5293 64 OLSON SQUARE GIANT 880mA WW 740 444502
Mounting Type:	Post top mounted at 0° tilt
Lumen Output:	20.69klm
Luminaire Wattage:	172w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G3
Control Type:	Lucy Zodion ZCELL 20lux (1:1)
Supply:	Private Cable Network
Primary Isolator:	32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable

Qty 4
Proposed galvanised tubular steel lighting column of 8.0 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 as supplied by Mallatite, CU Phosco, Fabrikat, Valmont Stainton or similar.

Luminaire Type:	Urbis Schreder Axia 3.2
Luminaire Reference:	AXIA 3.2 5293 24 OLSON SQUARE GIANT 590mA WW 730 444502
Mounting Type:	Post top mounted at 0° tilt
Lumen Output:	5.81klm
Luminaire Wattage:	44w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G3
Control Type:	Lucy Zodion ZCELL 20lux (1:1)
Supply:	Private Cable Network
Primary Isolator:	32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable

Qty 6
Proposed galvanised tubular steel lighting column of 8.0 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 as supplied by Mallatite, CU Phosco, Fabrikat, Valmont Stainton or similar.

Luminaire Type:	Two x Urbis Schreder Axia 3.2
Luminaire Reference:	AXIA 3.2 5293 24 OLSON SQUARE GIANT 590mA WW 730 444502
Mounting Type:	Side entry mounted on twin 300mm outreach bracket at 0° tilt
Lumen Output:	5.81klm
Luminaire Wattage:	44w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G3
Control Type:	Lucy Zodion ZCELL 20lux (1:1)
Supply:	Private Cable Network
Primary Isolator:	32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable

Qty 11
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 as supplied by Mallatite, CU Phosco, Fabrikat, Valmont Stainton or similar.

Luminaire Type:	Urbis Schreder Axia 3.2
Luminaire Reference:	AXIA 3.2 5293 24 OLSON SQUARE GIANT 400mA WW 730 444502
Mounting Type:	Post top mounted at 0° tilt
Lumen Output:	4.17klm
Luminaire Wattage:	29.7w
Colour Temperature:	Warm White (3000k)
Luminous Intensity:	G3
Control Type:	Lucy Zodion ZCELL 20lux (1:1)
Supply:	Private Cable Network
Primary Isolator:	32A double pole switch with BS 88 Type 2 6A fuse to luminaire
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable

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 electrical Kwh meter (Model: TOFCO Ltd: FP140 or equivalent)

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 are indicative only and final setting out positions to be determined by the site engineer or overseeing organisation.

UNIT IDENTIFICATION KEY

LC** Lighting column identification number
FP** Feeder pillar identification number

ELECTRICAL CONNECTION TYPE

DNO Distribution Network Operator connection
T** Private cable termination type:
Refer to SHD1113-SHD-HEL-SAWT-DR-EO-Electrical-R0

ISOLUX CONTOUR KEY

1.00 Isolux contour line
2.00 Isolux contour line

0 1:500 25 metres

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.

REV	DESCRIPTION	DATE	BY
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	14/11/2023	SRH

SHD
info@shdlighting.co.uk ☎ 07834 490 192 www.shdlighting.co.uk

SCHEME:	SAWTRY CAR PARK				
DRAWING:	PRIVATE LIGHTING DESIGN				
CLIENT:	MOTO HOSPITALITY LTD				
DRAWING NUMBER:	SHD1113-SHD-HLG-SAWT-DR-EO-Lighting Layout-R0			DRAWN:	SRH
	SHEET 1 OF 1			CHECKED:	SRH
				APPROVED:	
CONTRACT NUMBER:	SHD1113	DATE:	14/11/2023	SCALE @ A1	1:500
				REVISION:	R0

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

14/11/2023 15:20:31, SHD Plotstamp