



CURRENT STATUTORY SERVICE RECORD PLANS SHOULD BE OBTAINED BY THE CONTRACTOR/OVERSEERING 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. WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH HSE GS6, ENA 43-8, HSE HGS47, G391 AND ALL RELEVANT HSE REGULATIONS.

DETAILS OF EXISTING STATUTORY UNDERTAKERS PLANT ARE TO BE OBTAINED BY THE CLIENT AND THE CONTRACTOR MAY EXAMINE THESE RECORDS AT THE ENGINEERS OFFICE. 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" AND 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 (THIS IS TO INCLUDE ADJUSTMENT OF STAKES COVERS).

ANY DAMAGE TO PLANT OR APPARATUS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

NO WORKS SHALL BE CONSTRUCTED UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE OVERSEEING ORGANISATION BY THE DEVELOPER. NO WORKS SHALL BE CONSTRUCTED WITHOUT APPROVAL. IF CARRIED OUT THEN THEY WILL BE ENTIRELY AT THE DEVELOPERS RISK UNLESS OTHERWISE STATED WITHIN THE QUOTATION PROVIDED BY MMA LIGHTING CONSULTANCY. THIS DESIGN HAS NOT BEEN SUBMITTED FOR TECHNICAL APPROVAL.

NOTES:

ALL STREET LIGHTING IMPROVEMENTS WORK TO BE CARRIED OUT TO THE CURRENT SWAFFHAM TOWN COUNCIL AND NORFOLK COUNTY COUNCIL STREET LIGHTING SPECIFICATION.

CONTRACTOR TO CONFIRM POSITION OF STATUTORY UNDERTAKERS PLANT BEFORE COMMENCEMENT OF THE WORKS.

DURING WORKS ALL TRAFFIC MANAGEMENT TO BE IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.

PROPOSED LIGHTING COLUMNS ARE TO BE LOCATED TO THE BACK OF PATH WHEN LOCATION WITHIN FOOTPATH OR 1800MM SETBACK WHEN LOCATED IN VERGE.

WHERE THERE IS INSUFFICIENT HIGHWAY TO ACCOMMODATE A STREET LIGHTING COLUMN, COLUMNS ARE TO BE LOCATED IMMEDIATELY BEHIND THE EDGE OF THE HIGHWAY, ARE TO BE INSTALLED IN AN AREA APPROX 750MM X 450MM DEEP WHICH IS TO BE DEDICATED AS PART OF THE HIGHWAY.

ALL NEW STREET LIGHTS TO BE SUPPLIED BY A NEW UNMETERED SERVICE (DIRECT CONNECTION TO LOCAL DNO ELECTRICITY MAIN).

IT IS THE DEVELOPERS RESPONSIBILITY TO PROVIDE SUITABLY POSITIONED SUPPLY MAIN AT CONSTRUCTION STAGE.

ALL ELECTRICAL INSTALLATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF HEA, NICEIC AND BS7671 (IET WIRING REGULATIONS LATEST EDITION).

ELECTRICAL INSTALLATION CERTIFICATES TO BE FORWARDED TO: SWAFFHAM TOWN COUNCIL OFFICES, SWAFFHAM, NORFOLK.

ANY EXISTING OR PROPOSED TREES ARE TO BE CUTBACK, REMOVED OR RELOCATED TO AVOID INTERFERENCE WITH THE STREET LIGHTING LUMINAIRE OR PREVENT ANY FUTURE MAINTENANCE.

IF THE AUTHORITY OR CONTRACTOR EXPERIENCE ANY PART DISCREPANCY BETWEEN THIS DRAWING OR ANY OF THE DOCUMENTS RELATING TO THIS SITE THE AUTHORITY OR CONTRACTOR MUST CONTACT THE LIGHTING DESIGNER FOR CLARIFICATION.

UNIT NUMBERS SHOWN ARE FOR DESIGN IDENTIFICATION PURPOSES ONLY.

FINAL COLUMN NUMBERING SHALL BE AGREED WITH THE OVERSEEING ORGANISATION.

MUST BE READ IN CONJUNCTION WITH DRAWING MMA16053/002

Street Lighting Key:

Symbol	Description
	Lighting Column: Proposed galvanneal steel lighting column of 6.0 metre nominal height with a plated base and glass flake roof protection as supplied by Valmont Stanton or similar approved in accordance with Swaffham Town Council street lighting specification. (Norfolk PF1 spec.)
Qty 38	Column Reference: N/A
	Luminaire: Urbis Axia 3.1
	Mounting Type: Post top mounted
	Manufacturer Ref: AXIA 3.1 5295 8 OSLOM SQUARE GIANT 600mA WW 730 16.3W 435822
	Lumen Output: 1.99klm
	Luminaire Wattage: 16 w
	Charge Code: 42 0016 0000 100
	Colour Temperature: 3000K Warm White
	Luminaire Tilt: 0°
	Luminous Intensity: G3
	Control Gear: Electronic DALI enabled driver
	Control Type: One Part PECU in 3 pin NEMA. 35lux (1:0.5)
	Dimming Profile: N/A
	Supply: DNO electrical supply connection
	Primary Isolator: DNO approved double pole isolator
	Secondary Isolator: N/A
	Internal Wiring: To be wired in black pvc/pvc 1.5mm² 3 core flex from the isolator to luminaire
	Lighting Column: Proposed mid-hinged galvanneal steel lighting column of 6.0 metre nominal height with a plated base and glass flake roof protection as supplied by Valmont Stanton or similar approved in accordance with Swaffham Town Council street lighting specification. (Norfolk PF1 spec.)
Qty 2	Column Reference: N/A
	Luminaire: Urbis Axia 3.1
	Mounting Type: Post top mounted
	Manufacturer Ref: AXIA 3.1 5270 8 OSLOM SQUARE GIANT 300mA WW 730 8.3W 429112
	Lumen Output: 1.06klm
	Luminaire Wattage: 8 w
	Charge Code: 42 0008 0000 100
	Colour Temperature: 3000K Warm White
	Luminaire Tilt: 0°
	Luminous Intensity: G3
	Control Gear: Electronic DALI enabled driver
	Control Type: One Part PECU in 3 pin NEMA. 35lux (1:0.5)
	Dimming Profile: N/A
	Supply: DNO electrical supply connection
	Primary Isolator: DNO approved double pole isolator
	Secondary Isolator: N/A
	Internal Wiring: To be wired in black pvc/pvc 1.5mm² 3 core flex from the isolator to luminaire

Denotes direction of travel for raise/lower lighting column

UNIT NUMBERING KEY:
Proposed lighting column identification number

ELECTRICAL CONNECTION TYPE:
Proposed Distribution Network Operator electrical supply connection

LIGHTING ISOLUX CONTOUR KEY:
0.60 Isolux contour line
1.00 Isolux contour line
2.00 Isolux contour line

DRAWING TO BE PRINTED IN COLOUR TO ENABLE CORRECT IDENTIFICATION OF SYMBOLS, PROPOSED LIGHTING CABLEING OR LINETYPES SHOWN

LIGHTING SCHEME DESIGNED IN ACCORDANCE WITH:
BS 5489-1:2020 & BS EN 13201-2:2015

S/P RATIO: N/A
MAINTENANCE FACTOR: 0.82

LIGHTING CLASSIFICATION: P5

MIN. MAINTAINED AVERAGE ILLUMINANCE (EAV): >0.00 LUX <4.50 LUX
MIN. ILLUMINANCE (EMIN): >0.60 LUX
EMIN/EAV (UNIFORMITY): >0.20 (20%)

NO WORKS SHALL BE CONSTRUCTED UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE LOCAL AUTHORITY BY THE DEVELOPER. SHOULD WORKS BE CONSTRUCTED WITHOUT APPROVAL THEY WILL BE ENTIRELY AT THE DEVELOPERS RISK UNLESS OTHERWISE STATED WITHIN THE QUOTATION PROVIDED BY MMA LIGHTING CONSULTANCY. MMA LIGHTING CONSULTANCY HAVE NOT SUBMITTED THIS DESIGN FOR TECHNICAL COMMENTS/APPROVAL.

REV	AMENDMENT	DATE	INITIAL
R0	INITIAL DESIGN	19/05/2021	SRH
R1	MOVED COLUMNS AWAY FROM TREES	05/07/2021	SRH
R2	RESITED LC01, LC12, LC13 & LC14	01/09/2021	SRH

MMA

LIGHTING CONSULTANCY

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Project title	OFF NORWICH ROAD, SWAFFHAM		
Drawing title	S38 STREET LIGHTING DESIGN SHEET 1 OF 2		
Prepared by	SRH	Checked by	MC
Scale	1:500 @ A1	Date	19/05/2021
Drawing Number	MMA16053/001	Revision Details	R2

**RESIDUAL DESIGN HAZARDS:**
LOCATION OF EXISTING UTILITY SERVICES TO BE DETERMINED ON SITE BY THE CONTRACTOR.
INSTALLATION WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT STANDARDS INCLUDING BS 7671, G391, HGS47 AND THE INSTITUTION OF LIGHTING PROFESSIONALS GENERAL PUBLICATION 03 (ILP GP03).
1. ELECTRICAL SUBSTATION
2. UNDERGROUND HIGH VOLTAGE ELECTRICITY CABLE

