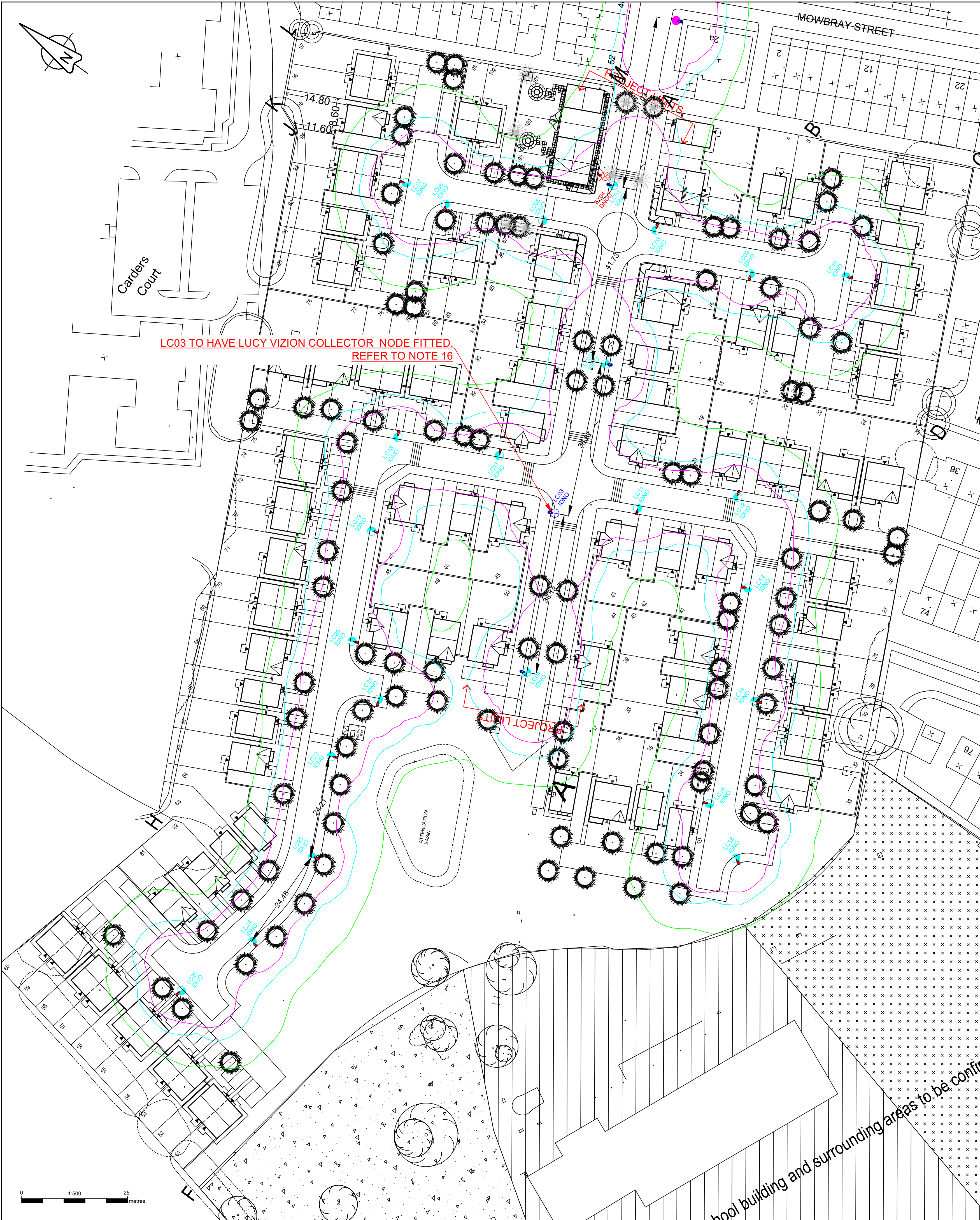




GENERAL NOTES

- 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.

NOTES

- All works are to be carried out in accordance with the latest 'The specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale'.
- 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.
- Final lighting column positions shall be agreed onsite with the Oldham and Rochdale street lighting representative.
- Final lighting column identification numbers shall be agreed with the Oldham and Rochdale street lighting representative.
- Lighting column foundations shall be designed in accordance with the latest 'The specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale' and the manufacturer datasheet's for the columns, soil types and environmental conditions present.
- All new lighting units shall integrate within the existing Oldham & Rochdale central management system network.
- The contractor shall provide the Oldham and Rochdale street lighting representative with as-built drawings, test certificates and column and lantern data sheets in accordance with the latest 'the specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale'.
- The contractor shall keep and provide accurate records to the Oldham and Rochdale street lighting representative and service provider in relation to the identification numbers associated with all central management system control equipment in accordance with the latest 'The specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale'.
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
- No account is taken for the blocking effect caused by buildings, trees, etc.
- 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 lighting 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.
- Where positions are needing to move due to site factors changing, then the street lighting design shall be addressed accordingly and re-submitted to the Authority for review and updating of the approvals. Until the changes have been approved by the Authority any installation works is at the Developers own risk.
- Each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
- There shall be a requirement for one lantern to have the capability of mounting a Lucy Vizion Collector via twenty (20) millimetre diameter hole in the lantern's canopy, using a NEMA socket replacement kit, and plugging into the Dali driver via a Vizion/Dali interface control unit.

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

LIGHTING CLASSIFICATION

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

Lighting classification: P4 (BS 5489-1:2020, Table A.5)

Minimum maintained average illuminance (Eav): >5.00 <7.50 lux
Minimum illuminance (Emin): >1.00 lux
Emin/Eav (uniformity): >0.20 (>20%)

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 and glass flake root protection as supplied by Valmont Stainton to Oldham & Rochdale Borough Council Street Lighting Specification.	
Column Reference:	1B0601METR10GR
Luminaire:	Holophane V-max with LM6 aluminium body and canopy with each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
Mounting Type:	Post top mounted
Manufacturer Ref:	VMX.2.LA063.V1.F4Q1.W045
Ordering Code:	VMX.2.LA063.V1.F4Q1.W045.PT1.T7.LRD.CL8.L007
Lumen Output:	5.81 klm
Charge Code:	42 0045 0000 100
Luminaire wattage:	45 w
Colour Temperature:	3000k (Warm White)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G4
Control Gear:	Philips Xitanium dimmable DALI enabled driver
Control Type:	Lucy Zodion Vizion Central Management System 5 pin UniNode 3 mounted in 7 pin NEMA socket
Dimming Profile:	CMS controlled
Supply:	IDNO electrical supply connection
Primary Isolator:	IDNO approved TOFCO double pole cut-out. Installed through 38mm red elbow duct. (ENW approved spec.)
Secondary Isolator:	N/A
Internal Wiring:	Internal wiring to luminaire shall be 3 core 1.5mm² PVC insulated flexible cable to BS 6004 and 300/500v grade
Door Orientation:	Door to face inward. Refer to standard detail 13.04 - Column Door Alignment

Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base and glass flake root protection as supplied by Valmont Stainton to Oldham & Rochdale Borough Council Street Lighting Specification.	
Column Reference:	1B0601METR10GR
Luminaire:	Holophane V-max with LM6 aluminium body and canopy with each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
Mounting Type:	Post top mounted
Manufacturer Ref:	VMX.2.LA063.V1.F4Q1.W045
Ordering Code:	VMX.2.LA063.V1.F4Q1.W045.PT1.T7.LRD.CL8.L007
Lumen Output:	5.81 klm
Charge Code:	42 0045 0000 100
Luminaire wattage:	45 w
Colour Temperature:	3000k (Warm White)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G4
Control Gear:	Philips Xitanium dimmable DALI enabled driver
Control Type:	Lucy Vizion Collector via twenty (20) millimetre diameter hole in the lantern's canopy, using a NEMA socket replacement kit, and plugging into the Dali driver via a Vizion/Dali interface control unit
Dimming Profile:	CMS controlled
Supply:	IDNO electrical supply connection
Primary Isolator:	IDNO approved TOFCO double pole cut-out. Installed through 38mm red elbow duct. (ENW approved spec.)
Secondary Isolator:	N/A
Internal Wiring:	Internal wiring to luminaire shall be 3 core 1.5mm² PVC insulated flexible cable to BS 6004 and 300/500v grade
Door Orientation:	Door to face inward. Refer to standard detail 13.04 - Column Door Alignment

Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base and glass flake root protection as supplied by Valmont Stainton to Oldham & Rochdale Borough Council Street Lighting Specification.	
Column Reference:	1B0601METR10GR
Luminaire:	Holophane V-max with LM6 aluminium body and canopy with each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
Mounting Type:	Post top mounted
Manufacturer Ref:	VMX.2.LA033.V1.F4Q1.W018
Ordering Code:	VMX.2.LA033.V1.F4Q1.W018.PT1.T7.LRD.CL8.L007
Lumen Output:	2.59 klm
Charge Code:	42 0018 0000 100
Luminaire wattage:	18 w
Colour Temperature:	3000k (Warm White)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G4
Control Gear:	Philips Xitanium dimmable DALI enabled driver
Control Type:	Lucy Zodion Vizion Central Management System 5 pin UniNode 3 mounted in 7 pin NEMA socket
Dimming Profile:	CMS controlled
Supply:	IDNO electrical supply connection
Primary Isolator:	IDNO approved TOFCO double pole cut-out. Installed through 38mm red elbow duct. (ENW approved spec.)
Secondary Isolator:	N/A
Internal Wiring:	Internal wiring to luminaire shall be 3 core 1.5mm² PVC insulated flexible cable to BS 6004 and 300/500v grade
Door Orientation:	Facing road

- Existing lighting column and luminaire to remain. Shown for contributory lighting 'tie in' purposes only.
- Existing lighting column to be uprooted and disposed of at recycling facility. Luminaire to be handed back to the Local Authority for recycling or reuse.

UNIT IDENTIFICATION KEY:
LC** Proposed lighting column identification number
EX** Existing lighting column identification number

ELECTRICAL CONNECTION TYPE:
IDNO Proposed independent DNO supply connection
DNOD Disconnection of DNO electrical supply

ISOLUX CONTOUR KEY:
0.20 Isolux contour line
1.00 Isolux contour line
2.00 Isolux contour line

R5	DESIGN AMENDMENTS AFTER LA COMMENT 22/09/2023	19/10/2023	SRH
R4	DESIGN AMENDMENTS AFTER LA COMMENT 11/08/2023	07/09/2023	SRH
R3	DESIGN AMENDMENTS AFTER LA COMMENT 05/05/2022	17/09/2022	SRH
R2	DESIGN AMENDMENTS AFTER LA COMMENT 05/05/2022	15/05/2022	SRH
R1	ADDED EX04 FOR REMOVAL	27/04/2022	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	07/03/2022	SRH
REV	DESCRIPTION	DATE	BY

info@shdlighting.co.uk ☎ 07834 490 192 🌐 www.shdlighting.co.uk			
SCHEME:	NIXON STREET, ROCHDALE		
DRAWING:	S38 STREET LIGHTING DESIGN		
CLIENT:	SEDDON CONSTRUCTION LTD		
DRAWING NUMBER:	SHD442-SHD-HLG-NIXON-RED-LED-Lighting Layout-R5	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
		APPROVED:	
CONTRACT NUMBER:	SHD442	DATE:	07/03/2022
		SCALE @ A1	1:500
		REVISION:	R5
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			