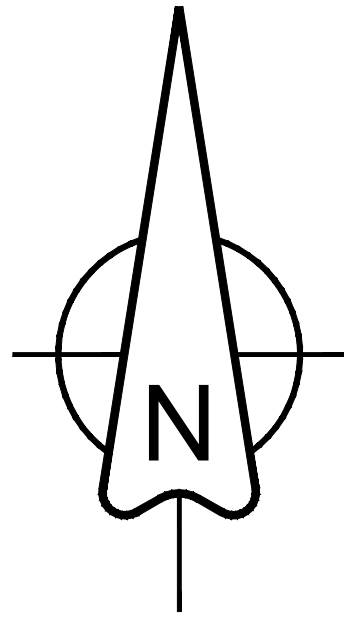




SEE LOCAL AUTHORITY NOTE 12

PROJECT LIMITS

PROJECT LIMITS

PROJECT LIMITS

PROJECT LIMITS

PROJECT LIMITS

LOCAL AUTHORITY 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' and Section 38 Design Brief ref: P0067-19-00-1039-01 (dated 29/05/2020)
- The contractor shall liaise with the IDNO in relation to the programming and coordination of any works associated with the connection and disconnection of street lighting equipment.
- 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 Harvard LeafNut 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 Harvard LeafNut control equipment in accordance with the latest 'The Specification for Road Lighting, Illuminated Traffic Signs and Bollards in Oldham & Rochdale'.
- The following Rochdale Borough Council standard detail drawings shall be obtained and adhered to:
13.03 - Installation of Steel Lighting Columns B
13.04 - Column Door Alignment
14.05 - Termination of Cables Type L5 REV A
14.26 - Base Compartment General Arrangement REV A
14.27 - Column and Sign Numbering Detail
14.28 - Termination Labels in Base Compartment
- There shall be a requirement for one lantern to have the capability of mounting a Harvard (LucyZodion) Branch Node via 20mm dia hole in the lantern's canopy, using a NEMA socket replacement kit for the 20mm dia hole, and plugging into the Dali driver via a Vizion/Dali interface control unit.
- This is a preliminary design general arrangement drawing only and is not to be used for construction purposes until technical approval has been granted by the adopting Oldham and Rochdale street lighting representative and Service Provider.**

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, the designer 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 designers and all drawings and documents are to be read in conjunction with one another.
- This 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.

HEALTH & SAFETY NOTES

- All materials to bear the relevant BS kitemark and comply fully with the specifications. All materials to be agreed with the overseeing organisation or site representative prior to ordering.
- All statutory consents, opening notices etc. as required under Highways Acts and water industries acts are to be obtained by the contractor prior to commencement of the works (unless otherwise stated).
- All works are to be inspected by Local Authority representative or overseeing organisation as applicable.
- The contractor should confirm the location of all statutory services and plant by hand dug trial trenches prior to commencing any works. Allowance for the presence of all statutory services appropriate protection / diversion measures is to be put in place by the contractor (unless stated otherwise) where statutory services are found to be within the area of highway works.
- The contractor is responsible for ensuring that all advance notices are in place and traffic management agreed for the works prior to commencing. The contractor is to make allowance for the advance provision of all electrical works and equipment for street lighting within their programme of works.

CDM REGULATIONS 2015

- In line with the above regulations SHD Lighting Consultancy Ltd are obliged to inform the client of the risks that may be encountered in the construction of these works.
- Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the works.
- SHD Lighting Consultancy Ltd would also respectfully remind the client of their obligations to take all reasonable steps in ensuring that only competent contractors who have a valid safety policy are employed, they should also provide satisfactory responses at tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by below:
 - Dealing with existing statutory services.
 - Trench excavations in excess of 1.2m deep.
 - Guarding to edges of excavations to prevent people, materials and vehicles falling into excavation.
 - Guarding of excavations outside working hours to prevent unauthorised access.
 - Undermining to adjacent roads or structures.
 - Confined space operations.
 - Traffic management on existing highways and protection of site personnel and members of the public.
 - Procedure to be followed in event of accident or emergency.
 - Method of working where contaminated ground is present on site.
- Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied.
- Any construction personnel, including operatives intending to construct the designs shown on this drawing should ensure that they have been regularly and thoroughly briefed by the principal contractor on all health and safety matters and have had sight of any risk assessments, health and safety plan and contractor construction method statements.

Qty 19		Lighting Column: 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 aluminium body and canopy	
Mounting Type:		Post top mounted	
Manufacturer Ref:		VMX.2LA043.V1.F4Q1.W026	
Luminaire Order Ref:		T.LRD.CL8.L007	
Lumen Output:		3.72klm	
UMSUG Code:		42 0026 0000 100	
Luminaire wattage:		26w	
Colour Temperature:		3000k (Warm White)	
Luminaire Tilt Inclination:		0°	
Glare Index Rating:		G4	
Control Gear:		Philips Xitanium dimmable DALI enabled driver	
Control Type:		Harvard LeafNut Central Management System (Lucy Zodion) – UniNode 3 with 5 pin suitable for 7 pin NEMA sockets.	
Dimming Profile:		CMS	
Supply:		IDNO	
Primary Isolator:		IDNO approved Tofco double pole cut-out. Installed through red elbow duct.	
Secondary Isolator:		N/A	
Internal Wiring:		Internal wiring to luminaire shall be 3 core 1.5mm² PVC insulated flexible cable to BS6004 and 300/500v grade	
Door Orientation:		Facing road	

UNIT IDENTIFICATION KEY

LC** Proposed Lighting column identification number

ELECTRICAL CONNECTION TYPE

IDNO Proposed Independent Distribution Network Operator electrical supply connection

ISOLUX LINE

- 0.05 Isolux contour line
- 0.10 Isolux contour line
- 0.50 Isolux contour line
- 1.00 Isolux contour line

LIGHTING DESIGN PRODUCED IN ACCORDANCE WITH CURRENT BS5489 & BS EN13201 LIGHTING STANDARDS

LIGHTING CLASS: P4
S/P RATIO: N/A
MAINTENANCE FACTOR: 0.81

LIGHTING LEVELS
EAV: 5.00 - 7.50 LUX
EMIN: > 1.00 LUX

R0	INITIAL DESIGN	01/06/2020	SRH
REVISION	DESCRIPTION	DATE	BY

SHD

OUTDOOR LIGHTING CONSULTANCY

CONTACT: info@shdlighting.co.uk
WEB: www.shdlighting.co.uk

SCHEME: OFF WILDHOUSE LANE, MILNROW

DRAWING: S38 STREET LIGHTING DESIGN

CLIENT: TEMPUS

DRAWING:	SHD065-SHD-HLG-WILD-DR-EO-R0	REVISION	R0
DRAWN:	S HIGHAM	APPROVED:	
CONTRACT NUMBER:	SHD065	SCALE: 1:250 @A1	DATE: 01/06/2020

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

0 1:250 12.5 Metres