	STREET LIGHTING DESIGN RISK ASSESSMENT	t 07834 490 192 — www.shdlighting.co.uk										
SHD1609-SHD-HLG-RHED-RA-EO-Lighting Design Risk Assessment-R0												
Prepared by:	SHD Lighting Consultancy Ltd 26/06/2024											
Scheme Title:	Rheda - Phase 2											
Brief Description:	rief Description: S38 street lighting design											
The lighting scheme has been designed in accordance with BS 5489-1:2020 and Cumberland Council s lighting specifications.												
	This document must be read in conjunction with SHD1609-SHD-HLG-RHED-DR	This document must be read in conjunction with SHD1609-SHD-HLG-RHED-DR-EO-Lighting Layout-R0										
No information was provided to the location of any existing or proposed low or high voltage underground electricity cables, low or high voltage overhead electricity cables, low, medium or high-pressure gas mains, any water mains pipes, underground or overhead communication cables or equipment or any other associated hazards.												
A	Il services are to be located and identified prior to installing or removing any lighting o	olumns.										
All works should be carried out in accordance with HSE GS6, ENA 43-8, HSE HGS47, G39/1 and any 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 engineer's office.												
All works in the vici from overhead lines note HGS47 "avoi	nity of any overhead cables shall conform to the requirements of HSE guidance note " and all works in the vicinity of underground mains or cables shall conform to the requirements specified by ding danger from underground services" and any additional requirements specified by	GS6 "avoidance of danger uirements of HSE guidance / the relevant undertaker.										
The contractor will b to any statuto	be responsible for liaison with the undertakers and for programming the agreed protec ory undertakers' apparatus into the overall works programme (this is to include adjustn	tion and/or diversion works nent of stats covers).										
No works shall be o dev	Any damage to plant or apparatus shall be repaired at the contractor's expense constructed until technical approval has been obtained from the local authority or over eloper. Should works be constructed without approval they will be entirely at the devel	e. seeing organisation by the oper's risk.										



DESIGNER'S RISK ASSESSMENT													
		_			IN AS				RESIDUAL RISK ASSESSMENT				
	HAZARD IDENTIFICATION / ACTIVITY	APPLICABLE (Y/N	ACTIVITY	WHAT IS THE HAZARD AND WHO / WHAT IS AT RISK	SEVERITY (S)	(LIKELIHOOD (L)	RISK (S × L)	DESIGN CONTROL MEASURES	SEVERITY (S)	(LIKELIHOOD (L)	RISK (S × L)	FURTHER CONTROL MEASURES / RECOMMENDATIONS	
1	During construction of the works	Y	Installation of highway lighting equipment adjacent to footpath	Public & Operatives	5	3	15	Install barriers to protect public from works area	2	2	4		
2	Electricity	Y	Below ground works	Striking underground electricity cable - electrocution/burning. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.	
3	Gas	Y	Below ground works	Striking underground gasmain - explosion, gas leak. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.	
4	Water	Y	Below ground works	Striking underground water main - flooding hazard. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.	
	(S)		(L)		Risk Rating (RR=S x L)								
	1		1		Insignificant Acceptable								
	3		3		Medium Not acceptable, risks need investigation to consider reasonable practical improvements								
	4		4		Significant Review urgently required to determine if the risk can be removed or controls improved								
	5		5		High Risks must be removed or reduced								



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	HAZARD IDENTIFICATION / ACTIVITY	APPLICABLE (Y/N	ACTIVITY	WHAT IS THE HAZARD AND WHO / WHAT IS AT RISK	SEVERITY (S)	(L) LIKELIHOOD (L)	RISK (S x L)	DESIGN CONTROL MEASURES	SEVERITY (S)	(LIKELIHOOD (L)	RISK (S x L)	FURTHER CONTROL MEASURES / RECOMMENDATIONS	
5	Telecom / Data	Y	Below ground works	Striking underground telecoms or data service cables.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.	
6	Highway Lighting	Y	Below ground works	Striking underground highway lighting cable - electrocution / burning hazard. Workforce and site personnel.	5	4	20	Ensure CAT scans are undertaken to locate services/utilities. No works to be undertaken without a valid permit to dig.	5	2	10	Principal Contractor must ensure that all excavations are carried out in accordance with HSG 47.	
7	Overhead data lines	Y	During lighting column installation or MEWP striking overhead lines	Loss of service / Injury to site personnel.	3	3	9	Contractor to be aware of any overhead cables.	2	1	2	All installations shall be in accordance with GS6 and G39 - No work to be undertaken in the vicinity zone	
8	Overhead power lines	Y	Installation of lighting columns	Loss of service / Injury to site personnel.	5	3	15	Columns to be located outside vicinity zone in accordance with G39.	2	1	2	All installations shall be in accordance with GS6 and G39 - No work to be undertaken in the vicinity zone - Consult with DNO for guidance.	
	(S)		(L)		Risk Rating (RR=S x L)								
	1		1		Insignificant Acceptable								
	3		3		Medium		Not acce	eptable, risks need investigation to consider rea	asonable	practical	improver	nents	
l	4		4		Significa	nt	Review	urgently required to determine if the risk can be	remove	d or contr	ols impro	ved	
	5 5 High Risks must be removed or reduced												



DESIGNER'S RISK ASSESSMENT													
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	HAZARD IDENTIFICATION / ACTIVITY	APPLICABLE (Y/N	ACTIVITY	WHAT IS THE HAZARD AND WHO / WHAT IS AT RISK	SEVERITY (S)	(г) ГІКЕГІНООД (Г)	RISK (S × L)	DESIGN CONTROL MEASURES	SEVERITY (S)	(г) ГІКЕГІНООД (Г)	RISK (S x L)	FURTHER CONTROL MEASURES / RECOMMENDATIONS	
9	Working adjacent to highway	Y	Maintenance of equipment	Site Personnel being struck by errant vehicles.	5	3	15	Column doors to face away from oncoming vehicles and columns to be sited to the rear of footway when possible.	4	1	4	Compliance with design contract documents, method statements and working procedures.	
10	Working at height	Y	Installation of luminaires	Dropping materials / tools from height.	4	3	12	Barriers to be placed around columns and suitable PPE shall be worn.	4	1	4	Operative to warn pedestrians of hazard overhead.	
11	Electric Vehicle Charging Points		Clearance distances between lighting columns and EV charging system (including connected vehicle) must be greater than 2.5m, when connected to different earthing systems.	Electric shock	5	3	15	Locate EV points, greater than 2.5m away from lighting column	5	2	10	Lighting design and EV point locations to be assessed	
12													
	(S)		(L)	(L) Risk Rating (RR=S x L)									
	1		1		Insignificant Acceptable Low Acceptable with effective control measures								
	3		3		Medium Not acceptable, risks need investigation to consider reasonable practical improvements								
	4		4		Significant Review urgently required to determine if the risk can be removed or controls improved								
	5 5 High Risks must be removed or reduced												