

STREET LIGHTING DESIGN RISK ASSESSMENT



Project Reference: MKL060-HLD HOOK MEADOW RA-R2		Name: Mark Kenny	Position: Director	Date: 06/12/2024
Scheme Title: REDROW HOMES DEVELOPMENT - HOOK MEADOW, WESTERGATE				
Brief Description: SECTION 38 - STREET LIGHTING DESIGN				
Considerations: Redrow Homes contacted Mark Kenny Lighting Consultancy Ltd requesting for a lighting design to be completed for the above mentioned development. Specific consideration was given with regards to equipment specification due to the ecological constraints in relation to the proposed development.				
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.				
All services are to be located and identified prior to installing or removing any lighting columns.				
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 work 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 stats 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 local authority or overseeing organisation by the developer. Should works be constructed without approval they will be entirely at the developer's risk.				



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DESIGNERS RISK ASSESSMENT												
	HAZARD IDENTIFICATION / ACTIVITY	APPLICABLE (Y/N)	ACTIVITY	WHAT IS THE HAZARD AND WHO / WHAT IS THE RISK	INITIAL RISK ASSESSMENT			DESIGN CONTROL MEASURE	RESIDUAL RISK ASSESSMENT			FURTHER CONTROL MEASURES / RECOMMENDATIONS
					SEVERITY (S)	LIKELIHOOD (L)	RISK (S x L)		SEVERITY (S)	LIKELIHOOD (L)	RISK (S x L)	
1	During construction of the works	Y	Installation of highway lighting equipment adjacent to footpath and carriageway	Public & Operatives	5	3	15	Install barriers to protect public from works	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 gas main - 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.
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.
(S)		(L)		Risk Rating (R=S x L)		Acceptable Acceptable with effective control measures Not acceptable, risks need investigation to consider reasonable practical improvements Review urgently required to determine if the risk can be removed or controls improved Risks must be removed or reduced						
1			1		Insignificant	Acceptable Acceptable with effective control measures Not acceptable, risks need investigation to consider reasonable practical improvements Review urgently required to determine if the risk can be removed or controls improved Risks must be removed or reduced						
2			2		Low							
3			3		Medium							
4			4		Significant							
5			5		High							

6	Highway lighting	Y	Below ground works	Striking underground highway lighting cable - electrocution / burning hazard. Workforce and site personnel.	5	4	10	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 personnel.	3	3	9	Contractor to be aware of any overhead cables.	2	1	9	All installations shall be in accordance with G56 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 personnel.	5	3	10	Columns to be located outside vicinity zone in accordance with G39.	2	1	10	All installations shall be in accordance with G56 and G39 - No work to be undertaken in the vicinity zone - Consult with DNO for guidance.	
9	Working adjacent to highway	Y	Maintenance of equipment	Site personnel being struck by errant vehicles.	5	3	10	Column doors to face away from oncoming vehicles and columns to be sited to the rear of footway when possible.	4	1	8	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	8	Operative to warn pedestrians of hazard overhead.	
	(S)		(L)		Risk Rating (R = S x L)								
	1	1			Insignificant			Acceptable					
	2	2			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					