Part 1 – Scheme Information & Designer Sign-off

Contract/Project	Gentoo Homes, Moor Lane Development Lighting Design		
Street Names/s	New development off Moor Lane		
Area/Town	East Boldon	**Scheme no (if applicable)**	6012-0890
Drawing No.	BBLP6012 - 0890	**Issue & Rev**	Orig
Designer/s	Alan Stonehouse		

Design Criteria			
Does the design meet the following criteria?	**YES**	**NO**	**If NO, include comments**
Lighting Class	✓		
Standard / specified equipment	✓		
Value engineering	✓		
DNO supplies only (Cable calculations required for new PCN if NO)	✓		
Stats plans checked, HPU conflicts displayed on drawing/s (DNO for HV, Gas for IP or above)		✓	New development, none available
Overhead lines & HPU conflicts designed out or noted with clear warnings? (See Part 2 – BB Risk Assessment)	✓		
Passive Safety Risk Assessment completed	✓		
Other comments relevant to this scheme			

ENVIRONMENT			
Based on reasonable investigation, are any of the following issues present?	**YES**	**NO**	**If YES, include comments**
Working near water		✓	
Heritage equipment or Listed structures (https://historicengland.org.uk/listing/the-list/)		✓	
Site of special scientific importance (http://magic.defra.gov.uk/magicmap.aspx)		✓	
Tree trimming required		✓	
TPOs (contact LA)		✓	
Wildlife considerations e.g. bats, birds, newts etc.	✓		Lantern selected for cut off and colour temperature for bat friendly lighting
Other comments relevant to this scheme			

At least one of the signatories below should be of Senior Engineer grade or above.
If the Designer is from an outside party, a Senior Engineer from BBLP should check the design.

	Print	**Job Title**	**Sign**	**Date**
Designer:	Alan Stonehouse	Design Engineer	[redacted]	16/5/18
Checked:	Graeme Clennell	Senior Design Engineer	[redacted]	16/5/18

The Principal Engineer will carry out regular random checks [redacted] order to ensure Balfour Beatty Processes are being followed correctly: Procedure: OPS-PR-2607-LP

Part 2 – General Risk Assessment Information

Generic Balfour Beatty Risk Assessment guidance & definitions:

	LIKELIHOOD (L)		SEVERITY (S)		
SCORE	DEFINITION	PROBABILITY	HEALTH	SAFETY	ENVIRONMENT
5	Very Likely	>90%	Multiple Deaths	Multiple Deaths	Irreversible Environmental Incident
4	Likely	51% to 90%	Life shortening health effect	Single death or multiple major injuries	Significant environmental impact (e.g. contamination of a water source)
3	Possible	11% to 50%	Irreversible health effect or serious illness with full recovery	Major injury or Over 3-day absence	Moderate environmental impact (e.g. fuel tank spillage)
2	Unlikely	1% to 10%	Reversible health effect (e.g. minor dermatitis)	Minor injury or one day absence	Local environmental impact (e.g. excess inert waste left overnight)
1	Highly Unlikely	<1%	Mild health effect ~ No lost time (e.g. local skin irritation)	First aid case, No lost time	Minor environmental impact (e.g. minor oil spill)

RISK RATINGS

Severity \ Likelihood	1	2	3	4	5
5	3	4	4	4	4
4	2	3	3	4	4
3	2	2	2	2	2
2	1	1	2	2	2
1	1	1	1	2	2

Risk Rating	BEFORE CONTROL MEASURES
4 Critical	Risk MUST be mitigated and risk level reduced to yellow
3 High	Risk MUST be mitigated and risk level reduced to yellow
2 Moderate	Supervision or monitoring of activity should be considered
1 Minor	Acceptable risk
Risk Rating	**AFTER CONTROL MEASURES**
4 Critical	Activity may not continue and must be added to the risk register
3 High	Activity may continue with management review and must be added to the risk register
2 Moderate	Supervision or monitoring of activity should be considered
1 Minor	Acceptable risk

Street Lighting-specific hazards and control measures:

This list is not comprehensive and should always be reviewed by the designer in relation to specific issues on each design. It highlights the most common significant, unusual hazards anticipated for most street lighting schemes. This list does not imply that all the below hazards are present in this scheme.

HAZARD	CONSEQUENCE	RISK RATING BEFORE CONTROL MEASURES			CONTROL MEASURES	RISK RATING AFTER CONTROL MEASURES		
		L	S	RISK		L	S	RISK
Overhead HV cables within 2x column height (possible human interface)	Death if contacted	2	5	4	Specify hinged columns. Arrange GS6 inspection by DNO. Apply suitable clearances based on results and consideration of G39, ENA and HSE guidance. Clearly identify cables and exclusion zones on drawings.	1	5	3
Overhead HV cables outside 2x column height (possible plant interface)	Serious injury/death possible if contacted by plant	1	4	2	Highlight cables on drawing, note that no raised equipment to enter the appropriate zone.	1	4	2
Overhead LV cables in vicinity of works	Serious injury possible	2	4	3	Highlight cables on drawing. Apply suitable clearances based on results and consideration of G39, ENA and HSE guidance. Consider sheathing with DNO.	1	4	2
Buried HV cable in vicinity of digging works	Serious injury, possible death, impact on local utilities	2	4	3	Clearly note conflicts on drawing, recommend use of trial holes	1	4	2
Buried IP+ Gas in vicinity of digging works	Serious injury, possible death, impact on local utilities	2	4	3	Clearly note conflicts on drawing, recommend use of trial holes	1	4	2

NOTE - All streets are expected to have low voltage buried electrical cables, and low/medium pressure gas lines, plus other buried services. These are standard hazards associated with street lighting works and should be anticipated by the contractor/installer, as should general traffic

management and the need for compliance with Chapter 8 of the Traffic Signs Manual. The contractor should always carry out a site-specific risk assessment and review tasks accordingly.

Part 3 – Street Specific Information

Street Name	No names at present, new development off Moor Lane
V number if applicable	
ID if applicable	

Drawing notes (include notes in the key and in the drawing body)	All lighting columns are to be serviced by a "DNO" or "IDNO" individual low voltage service.
Handover meeting required for street?	No

General Information about Road												
Max Speed (x)	**30 MPH**	x	**40 MPH**		**50 MPH**		**60 MPH**		**70MPH**			
Issue (x)		**Actions recommended**										
Bus Route		Ensure bus routes & and stops are clear. Carefully consult Chapter 8										
School Zone		Restrict Working hours										
Hospital		Do not obstruct junctions/entrances										
Obstructing Parked Cars		Liaise with Planning/CLO in advance										
Major Junctions		Use special **TM**										
Dual Carriageway		Use special **TM**										
Narrow Road		Possible special **TM**										
Narrow Footpaths		Provide ramps if req'd. Plan barriers accordingly										
One-Way Road		Possible special **TM**. Plan access accordingly										
Zebra Crossing		Do not leave beacons de-illuminated overnight										
One-for-one columns (same hole)		Plan in advance to have full crew available										
Is special Traffic Management likely to be required? (x)			**Yes**			**No**	x					
Other comments:												

Hazard Control. Only complete for unusual, significant hazards. Information and warnings should be clearly displayed on drawing.

- Any item with Risk Level 3 following control measures must be reported to the Project/Contract Manager for assessment, and to add to the Risk Register.
- Any item with Risk Level 4 following control measures may not proceed without further review.

HAZARD	CONSEQUENCE	RISK RATING BEFORE CONTROL MEASURES			CONTROL MEASURES	RISK RATING AFTER CONTROL MEASURES		
		L	S	RISK		L	S	RISK

Part 4 – Record of Design Review Handover between Designer and Contractor/Installer

Before construction can commence, a record must be made of the design drawing/s and information in this document being passed to the responsible Contractor by the Designer. This record should be saved in the project folder.

Scheme/drg no.	6012-0890
Streets reviewed (e.g. "All")	All

Designs and Design Review received and acknowledged by:			
Name	**Company**	**Position/Title**	**Date**
Comments:			

Notes:

- If any street/scheme requires a handover meeting due to particular safety concerns or operational difficulties, it should be noted below with any minutes/outcomes arising from the meeting.
- If any changes are made to the design which incur additional risks not covered by this form, a new form should be completed.
- If the contractor carries out any works differently to the design, this must be communicated with the designer in an advance so any revisions can be issued accordingly.