

Penistone Station Car Park

Lighting Assessment

Client	Barnsley Metropolitan Borough Council		
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Document Reference	PNS-SLC-XX-ASS-M&E-0001	Version No	01

As part of the Penistone Station Car Park works, new lighting columns will be installed throughout the car park and the associated approach road from Lairds Way, to ensure all areas are illuminated in compliance with British Standards.

The lighting plots appended to this document demonstrate that the light spill on adjacent properties will be minimal.

The lighting plots have been undertaken using Thorlux Starbeam 31W fittings mounted on 8m high lighting columns, with a single Thorlux Realta 9W fitting mounted on the lift shaft, adjacent to the railway and no maintenance factor applied to any of the fittings. The maximum light spill from the car park to Sheffield Road and Lairds Way is 1.07 lux, with a maximum 0.55 lux light spill from the car park to the properties on both Sheffield Road and Lairds Way. This lighting calculations is based on all areas being at the same level and they do not account for the trees around the perimeter of the car park. The new lighting columns on the approach road to the new car park also show 0 lux light spill to the properties on Lairds Way.

In order to illuminate Lairds Way to a suitable lighting level for the future use of the road, luminaires on existing lighting column on Lairds Way will be replaced as part of the works. The lighting plots demonstrate that the replacement fittings will result in less than 1 lux light spill on five properties, with the remainder of the properties having less than 0.4 lux light spill from the new fittings. As there is existing light spill on the properties from the lighting columns on Lairds Way, the change in light fittings is expected to have a negligible impact on the properties.

In conclusion, the additional lighting proposed for the car park and approach road from Lairds Way will not result in any significant light spill onto neighbouring properties.

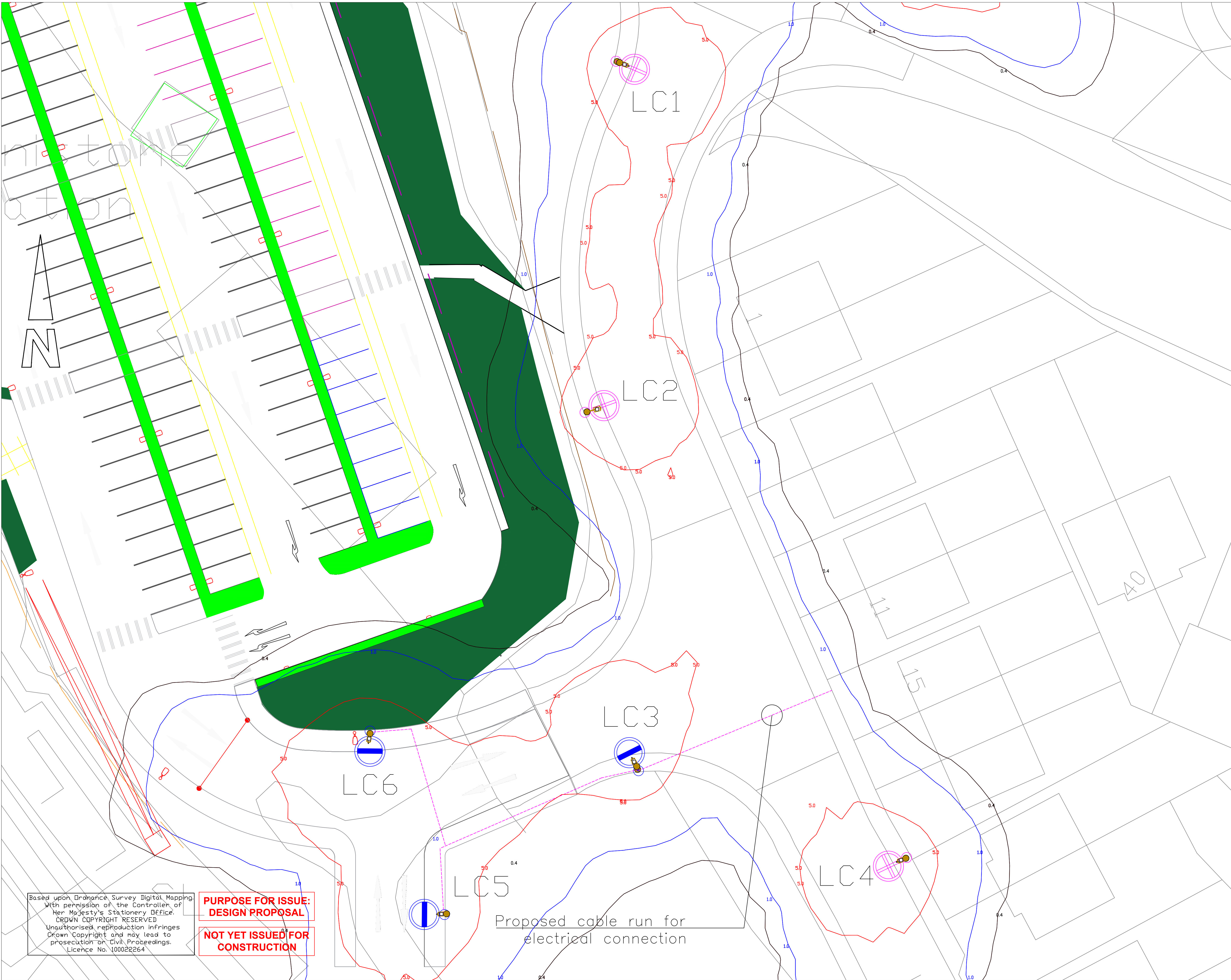
Car Park and Access Road Lighting Arrangements



Site 1

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Thorlux Lighting	ERL09W40	Realta - 9W - Wide Distribution - 4000K - Emergency	 4.1 W	605 lm (41 %)	-
59	Thorlux Lighting	SM031A23	Starbeam Plus LED - Area Distribution - 31W - 3000K	35.0 W	3810 lm	108.9 lm/W



Key

- Denotes 3no. – Proposed 6 metre steel column with Urbis Axia 3.1 5270 Type 'D' lantern and electronic PECU 22.9 Watts
- Denotes 3no. – Proposed luminaire replacements for Urbis Axia 3.1 5270 Type 'D' lantern's and electronic PECU 22.9 Watts

Comments

The electrical connection for the new column will need to be powered via a Distribution Network operator (DNO) cable through Northern Power Grid. Application for new connections can range from 8 to 12 weeks for a decision. Any proposed arrangements up until this point is only speculative. All final arrangements will be dictated by NPG

Notes

The Developer/Contractor is responsible for arranging the installation of any new LV mains with the DNO or a IDNO of choice with the boundary of a Section 38

All setting out and exact positions to be agreed on site by Barnsley Council Street Lighting Design Engineer prior to start. Allow at least 2 clear working days notice to attend site. Contact via email: streetlightingdesign@barnsley.gov.uk

Ensure that 300mm clearance without any services, to allow install of the street column

A double pole cut-out with 6A LST fuse must be installed into each column on the incoming supply,

New Street Lighting Columns are to be installed when the Footway / Verge is up to either Sub Base or Binder Course layers and all Edgings (Pin Kerbs) and Road Kerbs MUST be installed to establish line and level of any new installations.

Rev.	By	Amendments	Date



Project
LAIRDS WAY IMPROVEMENT FOR PENISTONE STATION SCHEME

Drawing title
STREET LIGHTING PROPOSALS

Scale	Drawn	Checked	Date
NTS	LC		AUGUST 26
Drawing No.			File
SL20-153/1300/01			SL20-153

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**PURPOSE FOR ISSUE:
DESIGN PROPOSAL**

**NOT YET ISSUED FOR
CONSTRUCTION**

Proposed cable run for
electrical connection