



Discussion

Why This Number Of Lanterns?

This layout is needed to achieve the British standard lighting level and uniformity requirements. The lighting must also extend away from the junction not less than the stopping site distance.

Why Use An 8m Mounting Height?

This is the most efficient design. Additional column positions are required for a 6m solution to achieve the same uniformity, however this also produces a higher average lighting level for the junction, resulting in over lighting.

What Measures Have Been taken To Reduce Lighting Pollution

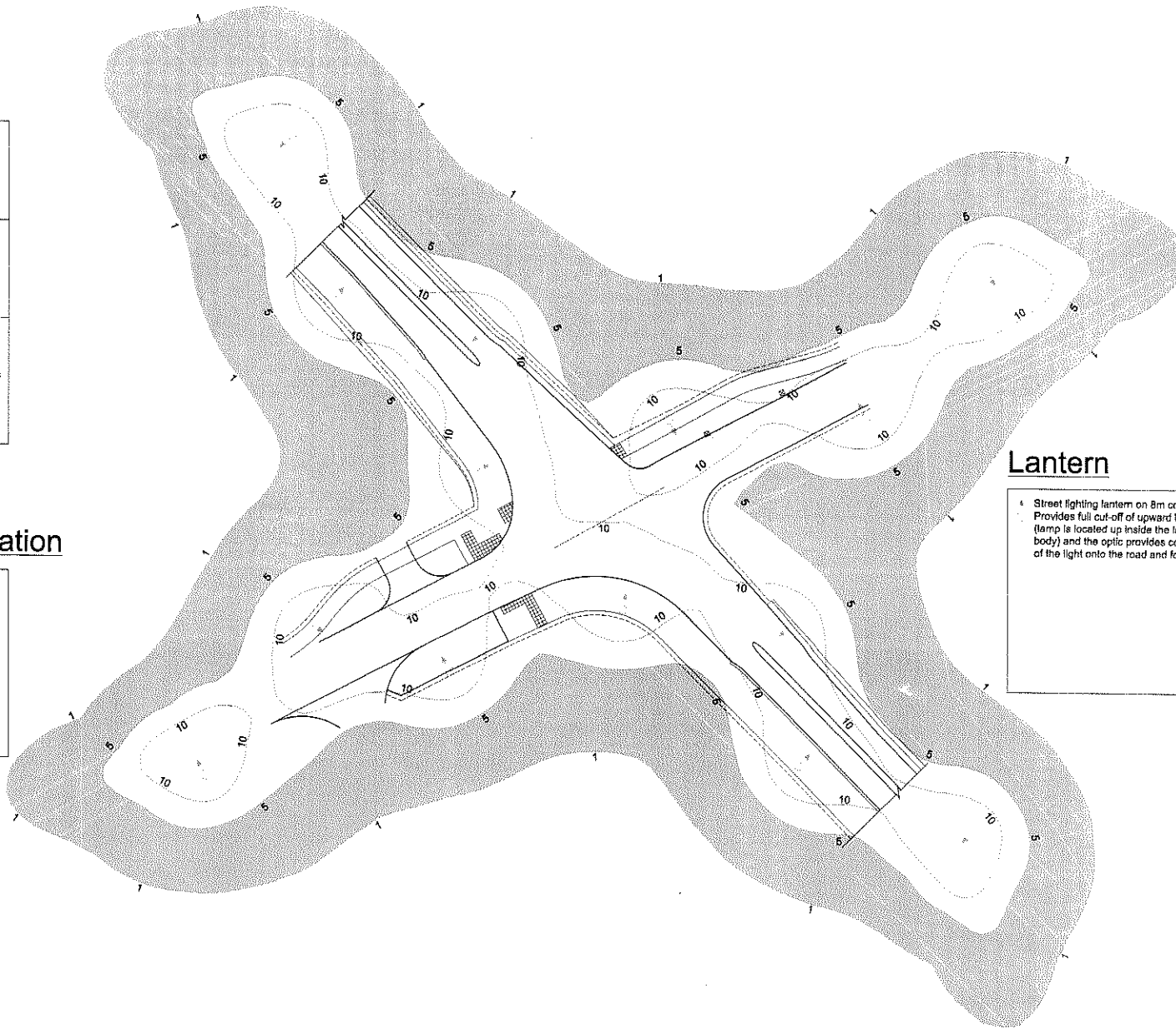
A full cut-off lantern has been specified which produces no upward lighting component and reduces 'Sky Glow'. Spill light has been reduced to a minimum by:

- Using the most efficient lantern optic technology and
- Redesigning the scheme with zero lantern inclination

Contour Key Information

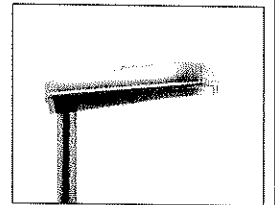
Light level contours produced by software modelling of junction lighting.

- 1 - 1 Lux lighting level contour. Not discernable from moonlight.
- 5 - 5 Lux lighting level contour. Shows significant reduction in light at back of footpath (As we move outside the target area).
- 10 - 10 Lux lighting level contour. The minimum average lighting level on the road and footway for compliance with the British Standard requirements.



Lantern

- Street lighting lantern on 8m column. Provides full cut-off of upward light (lamp is located up inside the lantern body) and the optic provides control of the light onto the road and footway




Proposed Lantern

REV	DATE	BY	CHKD	APPD	NOTES
A	17/01/08	AJT	JK	JG	For Information

CONTRACTOR

CONSULTANTS


CLIENT


PROJECT


TITLE
Girton Junction
Lighting Contours Showing
Focussed Control of Light
onto the Road and Footway

DATE 17/01/08
SCALE 1:250
DRAWING NO. A.CSK1109
DRAWING NAME A.CSK1109

PRODUCED BY AJT
CHECKED SK
APPROVED JG