

Plot 9a

First Street

Obtrusive Light Statement

External Lighting

To provide the users of the site with adequate lighting for safe navigation, a combination of 5m multihead columns (max 3 adjustable luminaires on each), adjustable wall luminaires mounted ~4m AFFL onto the building facade, adjustable ground mounted spike lights and fixed ground recessed uplighters have been installed.

Location

The site is located in Manchester City Centre and can be considered an urban location with high district brightness. In relation to the ILP GN01 For the Reduction of Obtrusive Light this would fall within an E4 environmental zone.

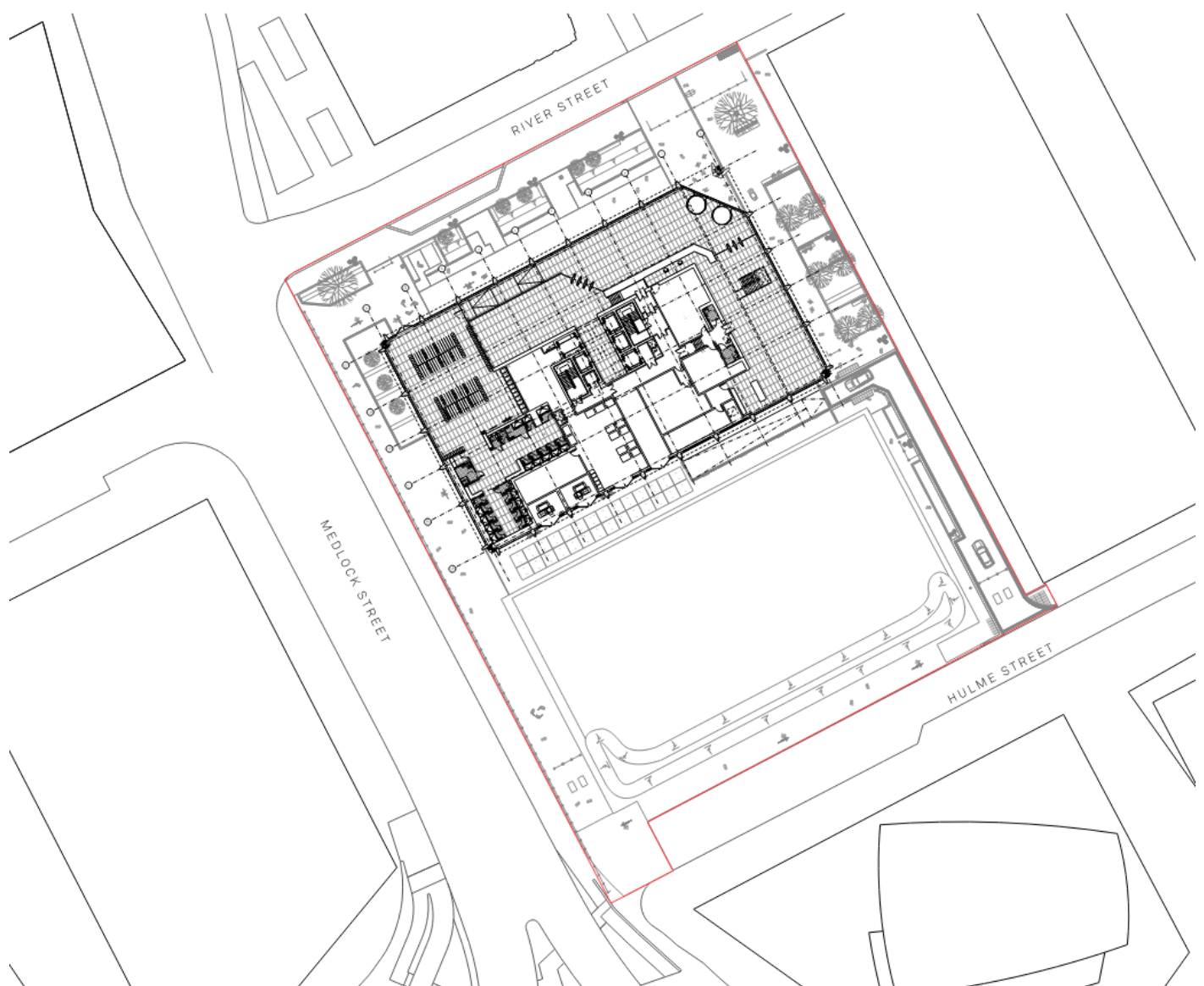


Figure 1

Figure 1 shows the Plot 9a development and the surrounding roads and buildings for context.

River Street sits to the north of the site and along this road is a large newly built office building. To the left of the site lies Medlock Street which is an A road with existing street lighting.

Obtrusive Light

Lux levels were taken on site post sunset ~4pm on the 16th of December 2024. These were taken at 0.0m AFFL in various positions in order to provide an indication of the current lighting levels on site. To demonstrate the difference in the light levels between the baseline condition and the post-development condition, all external luminaires were turned off for a first reading (green) and turned on for a second reading (red).

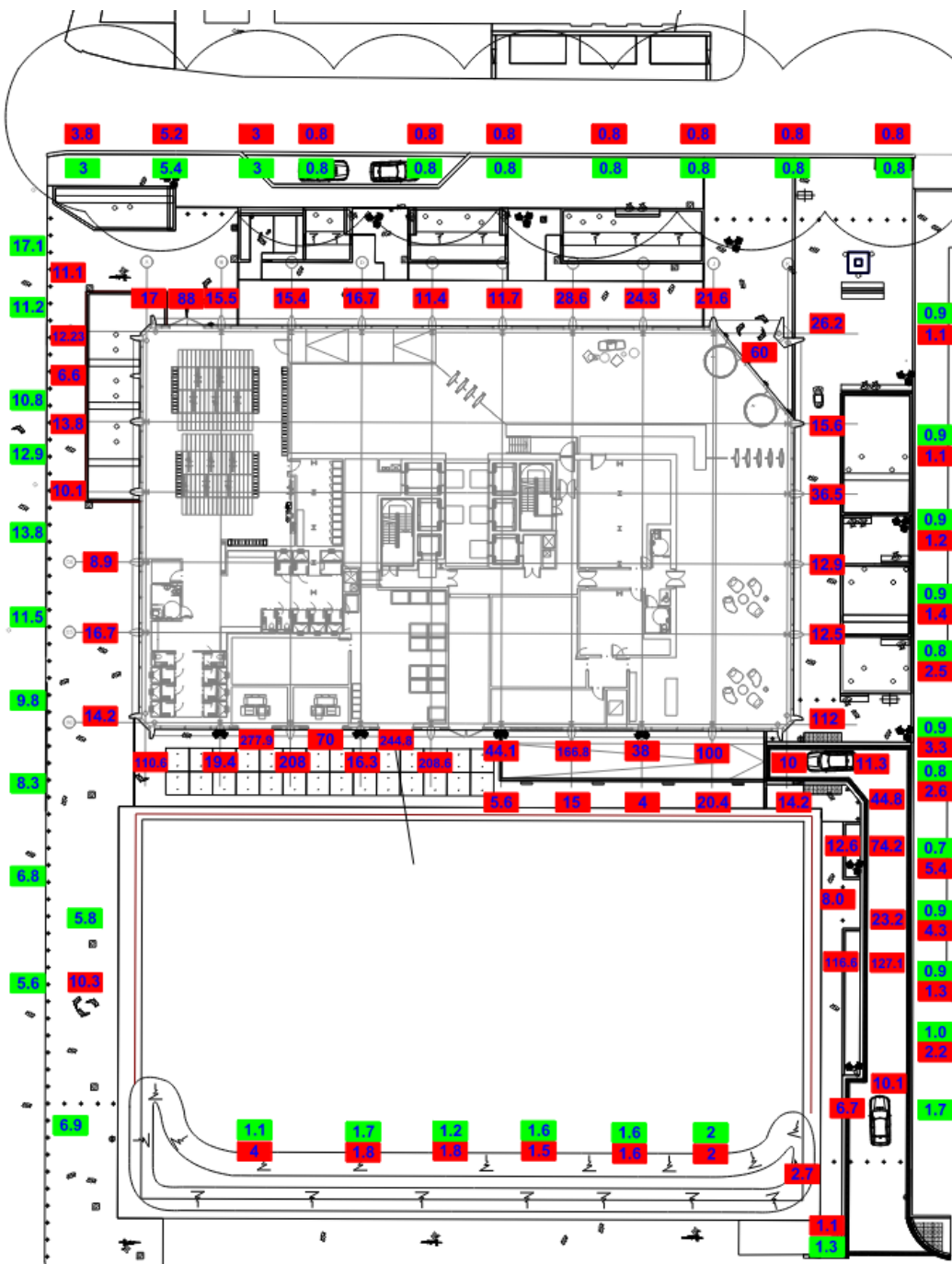


Figure 2

Note: Where light levels are higher than the criteria, luminaires shall be dimmed to achieve the target light levels as set out in BSEN 12464-2 Lighting for Outdoor Workplaces.

In relation to ILP GN01 For the Reduction of Obtrusive Light, the following statements describe the perceived impact of the external lighting on the surrounding area:

Spill Light - The results taken along the north and west of the site (along the boundary line) demonstrate that there is very minimal change to the lux levels when the external site lighting is turned on therefore the spill light from the Plot 9a site can be deemed minimal. As the lux level readings were taken along the boundary line, it can be assumed that there would be a further reduction in light spill onto the neighboring office building which is situated approximately 11m north of the site.

Source Glare – The windows of the neighboring office building to the north of the site are located at first floor level and above and as such, it can be assumed that the office users would be look down onto the external landscaping within the Plot 9a site. The lighting has been designed such that luminaires are directed downwards towards the ground and that the view of light sources are therefore minimised to users of the office building. Should further improvements be required, the adjustable nature of the multihead luminaires will allow further angling.

Façade Brightness – The mutli head luminaires along the perimeter of the south façade are used for general lighting and are aimed towards the ground for navigation around the building. Therefore, the brightness of the of the façade itself will appear minimal.

Hours – The external lighting is controlled via a timeclock for automatic switch off during curfew hours. In accordance with ILP GN01, all external lighting (except for safety and security lighting) shall be automatically switched off between 23:00 and 07:00.