

VICTORIA HOUSE MANCHESTER

Aviation Lighting Statement
Ref: P1389-AVIA-001 Rev B



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AMENDMENT HISTORY



REVISION	DESCRIPTION	DATE	AUTHOR	CHECKED
A	Initial Issue	May 2023	B. Duckworth	C. Franks
B	Turley comments added	May 2023	B. Duckworth	C. Franks



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1 INTRODUCTION

The project will comprise of a new build residential scheme. The high-rise residential development of 175 residential units will comprise a mixture of one-, two- and three-bedroom apartments.

The basement level will be a plant area, with some car parking. The ground floor will comprise two commercial units, concierge/management facilities, refuse store and residents entrance area.

Floor level 1 comprises apartments, and a gymnasium for the use of residents.

Floor level 2 comprises apartments, residential amenity areas and a terraced garden.

Floor levels 3 to 24 comprise apartments.

This document has been produced to provide evidence that the aviation lights shall not provide light pollution to the occupants of the building.

2 AVIATION LIGHTING

The aviation lights to be mounted at the top of Victoria house are to provide building mounted obstruction lighting system to comply with international civil aviation organisation strictly to ICAO annex 14 standards - 8th edition, to fulfil CAA & EASA requirements.

Currently, Victoria House is locally the highest building as can be seen., but as noted later in his report there are neighboring properties that will be up to 26 floors.

Figure 1 Image of Victoria House



2.1 Location of Aviation Lighting

The 2 No aviation lights are to be located as indicated on the following elevations. i.e., at the highest point of the building.

Figure 2 Elevation of Victoria House

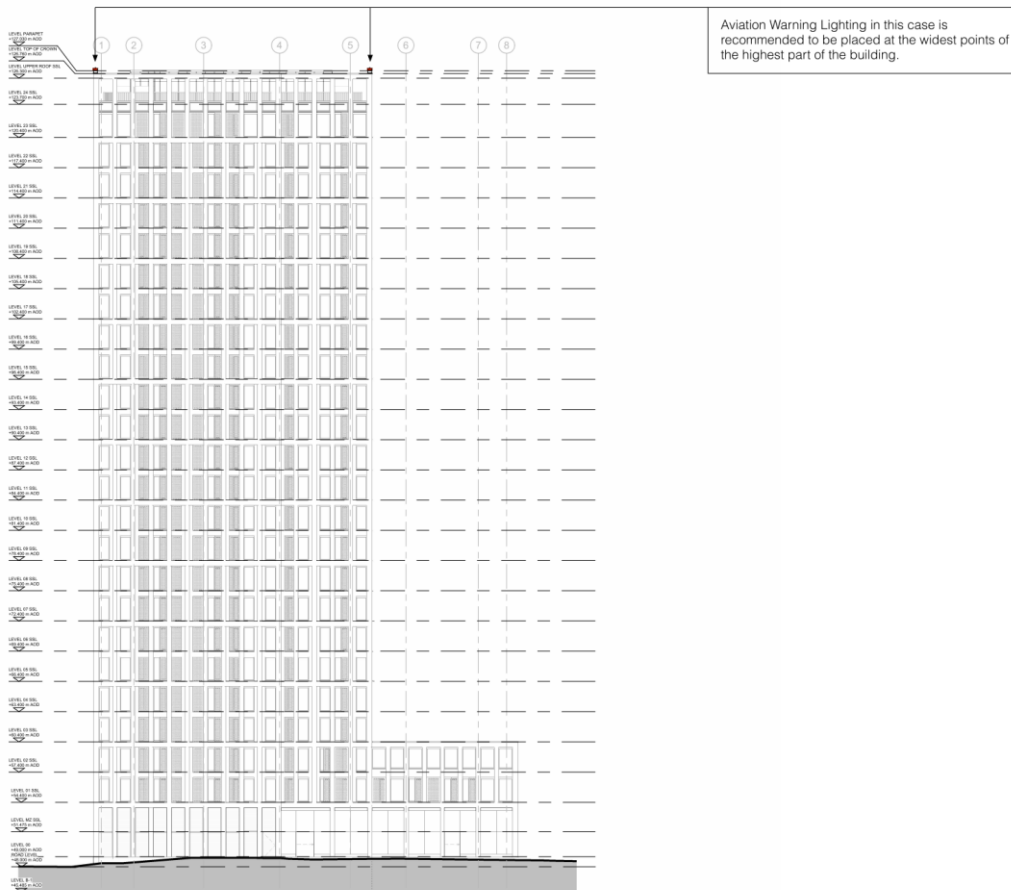
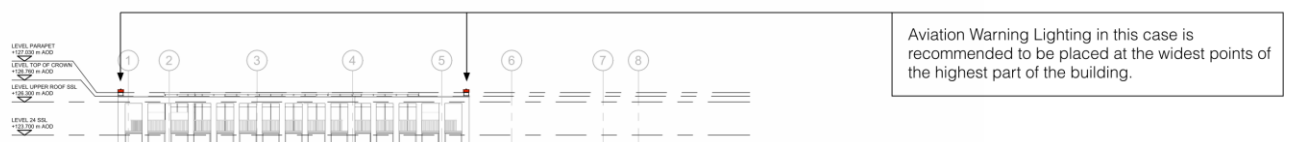


Figure 3 Enlarged View of Top of Victoria House



2.2 Beam Spread

Aviation lights omit light horizontally. As a result, there will be no direct impact to the neighbours at roof level, this is demonstrated by the following images.

Figure 4 Detailed Beam Spread.

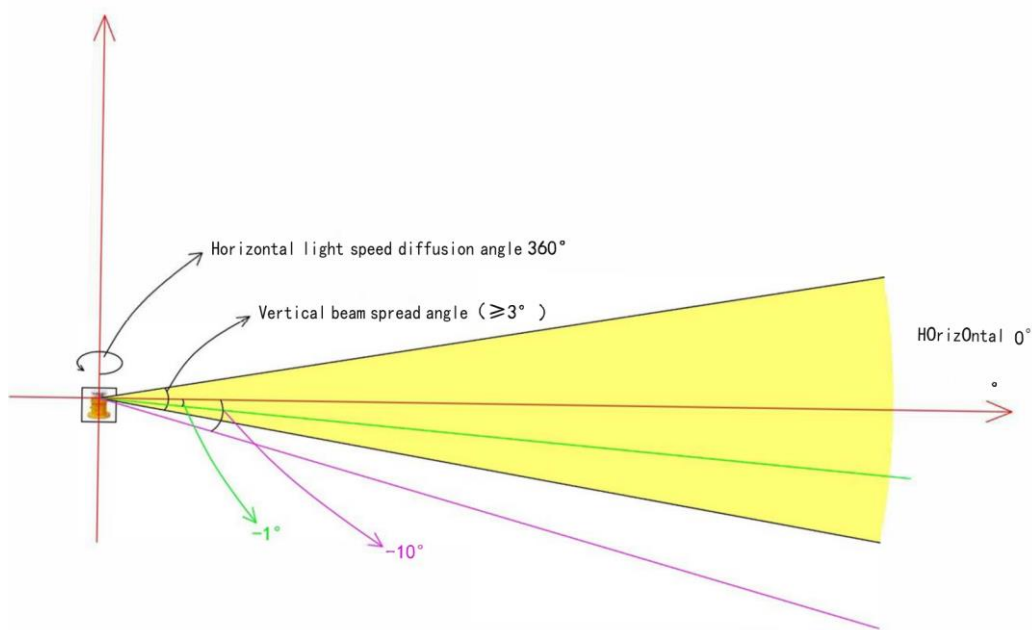
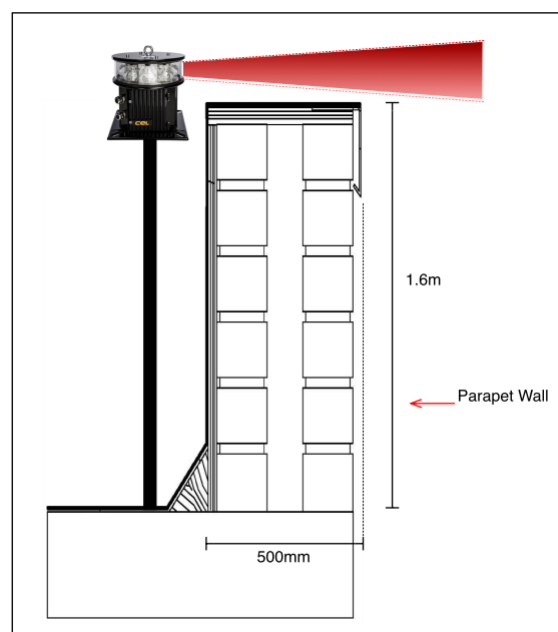


Figure 5 Schematic of Beam Spread in Relation to a Building

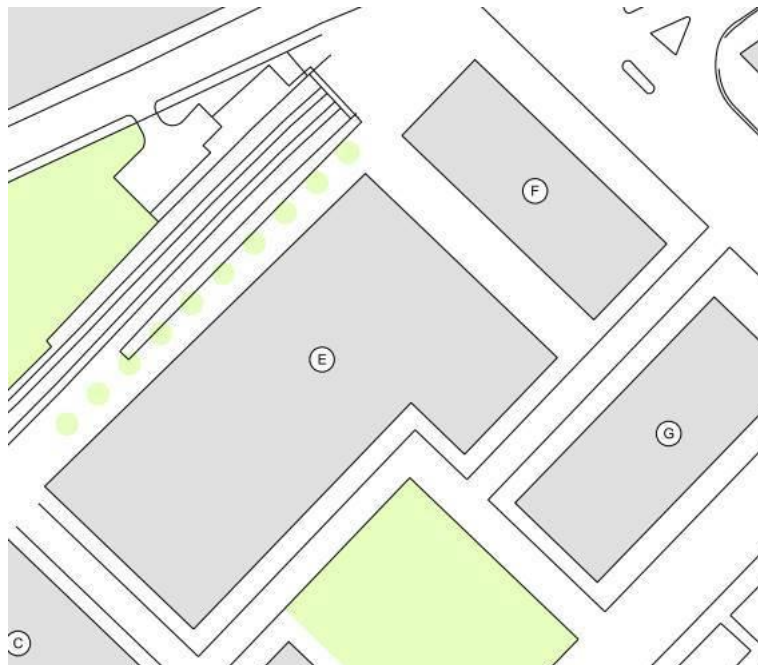


2.3 Adjacent Properties

The Castings is located on the neighbouring plot to Victoria House and is currently under construction.

The Castings will be taller than Victoria House (26 storeys compared to 24), although the residential development will be located level 24 and below.

Please see the below image to broadly reflect the position of The Castings (Plot E) and Victoria House (Plot F).



If there are any issues as the top two floors of the Castings will not be residential, a dome can be installed on the aviation light that will prevent any light pollution into the Castings.

2.4 Conclusion

As a result of the location of the aviation lights, and the horizontal beam spread as proven from manufacturers technical details, the installation of these lights shall not have any adverse impact on residents, and there are remedial measures that are available should any future developments be affected.