

Northern line extension public inquiry

Copy of instructions relating to the Kennington Green head house architects

18 December 2013

1. The following document compiles all written instructions to the architects (John McAslan and Partners) for the design of the Kennington Green head house. Please note that in addition to these extracts, instructions were also given verbally in weekly meetings, and at review sessions for which there are no meeting minutes.

Fri 15/02/2013 17:45
Email to McAslan
Email From: Freddy McBride

At KG we need:

45sqm of louvers for the main vent duct – air in and out

8 sq m of louvers for the stair pressurisation – air in

Unconfirmed area of louvers – in and out – for electrical switch rooms (you could assume 4sqm and 5sqm as at KP)

Unconfirmed sqm of louvre for pressure relief (from stair pressurisation - air out)

The last two are a consequence of more detailed M&E analysis and will need to confirm on Monday.

Louvres can only discharge on two faces.

We had previously assumed the blind windows could supplement the louvre requirement and reduce the o/a height of the head-house.

Sat 16/02/2013 12:21
Email to McAslan
Email From: Freddy McBride

We have not progressed the elevations since our issue of 21.12.12. At that time we had assumed only main vent and air intake for stair pressurisation. This was to be achieved using the blind windows and the rooftop extension. Even so it looks as though our rooftop louvers as shown on your mark-up should have been a little higher.

Since then a more detailed study by services engineers has highlighted a number of additional M&E requirements, namely ventilation for electrical rooms and stair pressure relief. These are the items highlighted on your mark-up, which are still being developed by Halcrow. The actual sizes/requirement will hopefully be confirmed on Monday.

We had previously looked at a doughnut solution for the main ventilation. This didn't work because the main vent required a more unobstructed external area than the doughnut shape could provide without becoming excessively large. However it might now work with the additional smaller vent units.

The attached sketch (which shows the bulk of louvre we previously thought was required) shows the doughnut within the roof. The idea would be to ventilate the exhaust from electrical rooms and stair pressure relief into this roof well. The main vent would still face outwards. The length of roof is approximately 12m, if we vent on both short sides of the roof well as shown we should be able to

maintain 5m separation allowing intake and exhaust on opposing faces. Hopefully this will help reduce the o/a height of the head-house.

We can test the viability of this with Halcrow on Monday.

