



Your ref:
Our ref: IP04380/1820714/INP/AA/H116/001

Camila Parby
Webb Yates
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London Underground
Infrastructure Projects

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(Sent via email to: camilla.parby@webbyates.co.uk)

17th January 2018

Dear Camilla,

Re: 373 – 375 Euston Road – LUL Asset Impact Assessment

I write regarding your Impact Assessment Report submission made on the 19th December 2017 as part of re-development of 373-375 Euston Road. The submission comprised of the following:

- LUL Asset Impact Assessment J2740-S-RP-0007 rev 00 and following appendices;
 - Architectural Drawings
 - LUL Survey Drawings
 - Structural Drawings
 - Outline Construction Sequence
 - Drainage Strategy Report
 - Predicted Ground Settlement
 - Outlined programme
 - Geo-Environmental Desk Study
 - Geo-Environmental Site Investigation report
 - Laser Drainage Survey
 - Existing and Proposed loads

Project involves refurbishment and two-storey extension of the existing 373 – 375 Euston Road structure to host Birkbeck teaching facility, including deepening the existing basement by 450mm and strengthening the existing foundations locally. Webb Yates Engineers have undertaken an assessment of the ground settlement and heave impact. I make the following observations:

- The settlement has been assessed in the permanent case (with new basement slab been installed and temporary case (with existing slab removed and basement excavated) at the level of the foot of the tunnel.
- Settlement assessment is based on the Craig's Soil Mechanics and 'Settlement and Heave of Over-consolidated Clays' papers published October 2001 and November 2001 by O'Brien and P Sharp
- Assessment suggests <1mm movement in the short-term and approx. 2mm in the long-term for the Temporary case
- Assessment suggests < 1mm movement in the short-term and <1mm movement in the long-term in the Permanent case
- Additionally, for the extended foundations permanent case short-term and long term settlement has been assessed to be <1mm.
- The report also assesses the impact of the development on LUL assets using the Burland Scale method, this predicts <0.1mm crack width which is classified as negligible (Category 0) to very slight impact
- It is noted that 0.45m lowering of basement will not undermine the existing foundations, but will remove lateral support. Temporary support and sequence of construction will be required.
- The drained cavity system proposed provides flood resilience considering the risk of climate change and surface water / sewer flooding.
- It is noted that the proposed construction at the site does not cause harm to the adjacent LUL assets.
- It is noted that changes to the design, construction programme or methodology will necessitate a review of the findings.

I can confirm, on behalf of LU, that I have no objection in principle to your proposal based on the documents made available for review only. This does not cover the full design and construction methodology adopted by the Contractor. This Letter of No Objection relates to the documentation listed above and subject to the following:

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- Further review of movement analysis maybe necessary following change to design, construction programme or methodology adopted for the redevelopment.
- Details and proposed methodology of any alternations in the building adjacent to LU tunnel to be reviewed and accepted by LU Engineer.
- Monitoring programme, frequency and trigger levels as agreed with LUL Engineer. Monitoring results to be made available to LU Engineer on a regular basis throughout the works.
- Pre and Post works condition surveys to be carried out on LU Assets, with reports to be submitted to LU Engineer for review and acceptance.
- The Project shall be liable for any detrimental new defects to LU assets as a result of your works.
- Ongoing communication with LU, including updates on programme.

This notification of No Objection does not constitute acceptance of liability by LU for any accident, incident or breach of stature that may arise from the design and method adopted for construction.

Please note the comments below:

- LU withholds the right to object to any changes to design or method of work which we believe may have a detrimental impact upon LUL infrastructure or operation. Webb Yates Engineers should consult with LU on a regular basis to determine what activities may have an impact on LUL infrastructure such that we can agree a method of working that is acceptable to both parties
- Were deemed necessary LU Infrastructure Protection inspectors will monitor the works, plant and methods of working as detailed in any agreed Method Statement, in order to ensure the protection of LUL infrastructure and operations.
- Please note the responsibility for the health, safety and environmental aspects of the works on site rests fully and unreservedly with your designated contractors. This letter of no objection to the works detailed in the documents listed above does not absolve you from that responsibility, nor does it confirm or suggest that you have met statutory requirements.

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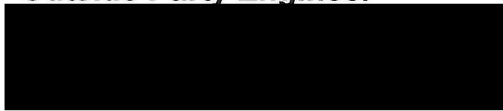
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I trust the above is clear and understood. Should there be any queries or you require further clarification or information, please do not hesitate to contact me.

Yours sincerely



Aneeka Ahmed MSc MEng (Hon)
Outside Party Engineer



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