

**Consulting Structural Engineers
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APPENDIX B

LONDON UNDERGROUND LIMITED INFORMATION

Date 08 November 2013
Our Ref 20878-SI-B108
Your Ref

To Helen Hawker
Conisbee
helen.hawker@conisbee.co.uk



London Underground Limited

Hello Helen,

9-12 New College Parade London NW3

Thank you for your communication of 6th November 2013.

Attached is a 1:1250 plan @A4 showing the alignment and tunnel crown levels of the Jubilee line and the tunnel alignment of the Metropolitan line in relation to the above location.

Please note:

- shaded areas represent sub-surface structures which can be as shallow as 0.2 metres below surface level
- the positions of the tunnels on this plan are indicative only and must not be used for design purposes
- for more accurate tunnel location information a survey will need to be undertaken
- this letter must be distributed with the drawing which it refers to

There are a number of potential constraints on the redevelopment of a site situated close to underground tunnels and infrastructure. It must be demonstrated to the satisfaction of LUL engineers that:

- the location of existing London Underground structures and tunnels is suitably accommodated
- support is not taken from our structures or land and that our right of support is retained
- the development will not have any detrimental effect on our tunnels and structures either in the short or long term
- the design must be such that the loading imposed on our tunnels or structures is not increased or removed
- ground movement arising from demolition and construction has been considered
- the effects of noise and vibration arising from the adjoining operations within the structures and tunnels are taken in to account

We need to be involved at all stages of planning, design and development. Therefore, we require details of the following:

- existing and proposed plans, sections and elevations (including demolition plans if available)
- proposed foundation arrangements

- dimensions indicating distance between proposed and existing structures and our property boundary/assets (applicable where surface structures are involved, we are aware that tunnels will need to be surveyed to gain an accurate correlation)
- load calculations
- method statements

We are aware that these may not be available at this early stage but once they are, please send a copy to me so we can assess what impact, if any, the proposed development may have on our infrastructure.

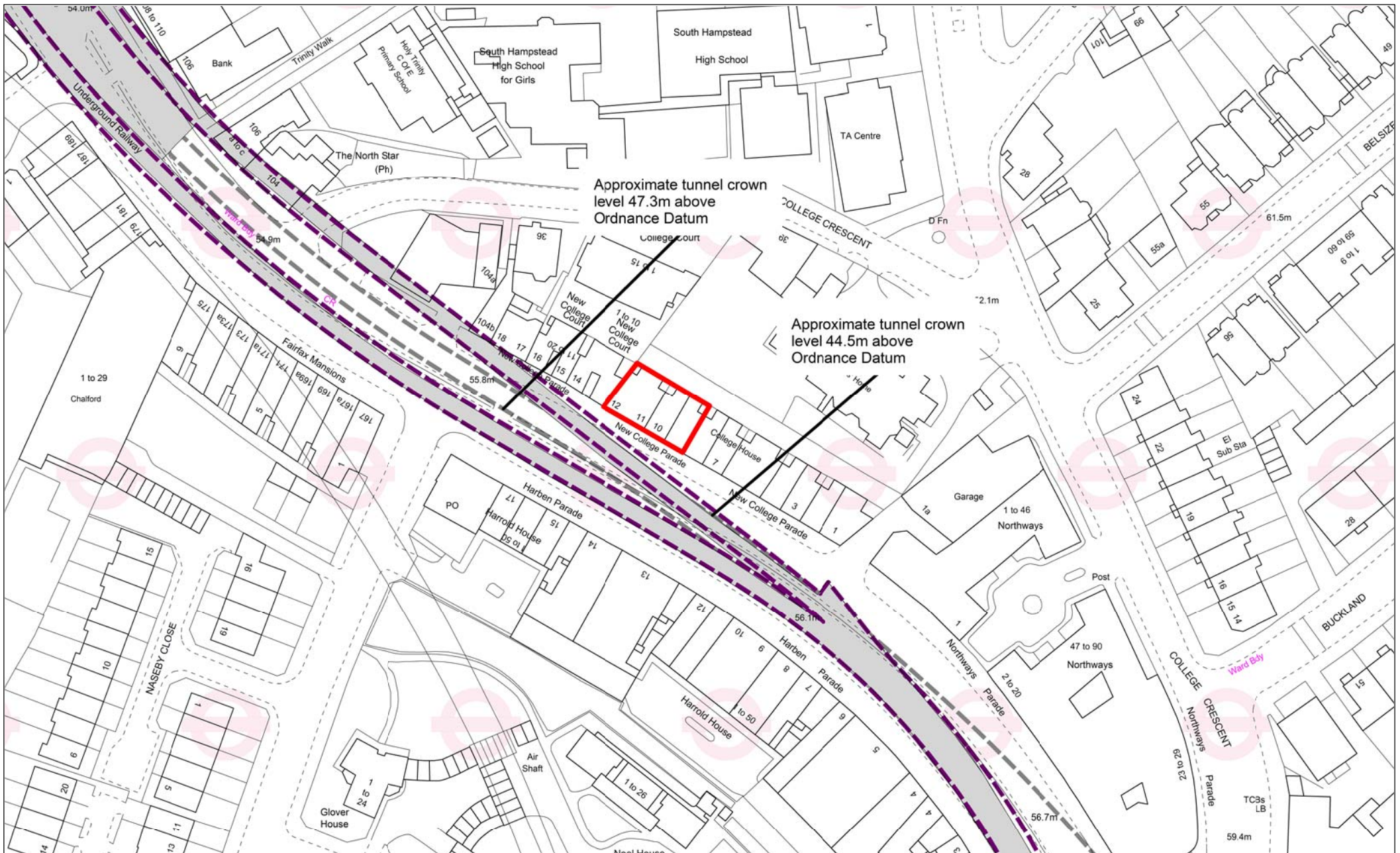
Please also note:

- bored Piles must not be constructed within a zone created by a rectangle formed by a six (6) metres offset above and below the extremity of the tunnel or other structure and three (3) metres offset horizontally from its sides
- bored Piles must not be under-reamed such that under-reaming encroaches in to the exclusion zone defined above
- driven bores or piling must not be undertaken within 15 metres of our tunnels

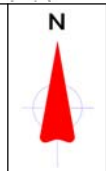
The above are guidelines only. Should it be necessary we will appoint an engineer to discuss your proposals further so that we can ensure the safety of our railway.

Should you have any further enquiries, please do not hesitate to contact me.

Shahina Inayathusein
Information Manager
LUL Infrastructure Protection
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Date	08 November 13
LCS Code	B108
Drawn by	S.Inayathusein
Scale	1:1250 at A4

1. All dimensions and LUL asset locations are approximate
2. This drawing must be read in conjunction with the accompanying letter sent by LUL
3. This drawing is for planning purposes only
4. For more accurate tunnel location information a survey will need to be undertaken.

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 NW3