

[REDACTED]

From: Zaheer Aslam [REDACTED]
Sent: 19 September 2022 13:30
To: Yas Planning Architect Bolton
Subject: Fwd: FW: RE: 48 wilton road. Planning application conditions
Attachments: image643785.png

----- Forwarded message -----

From: zaheeraslam15 [REDACTED]
Date: Mon, 25 Jul 2022, 7:34 pm
Subject: FW: RE: 48 wilton road. Planning application conditions
To: [REDACTED]

Sent from my Galaxy

----- Original message -----

From: "Rob Palmer (Rogers Geotechnical)" [REDACTED]
Date: 21/07/2022 2:49 pm (GMT+00:00)
To: [REDACTED]
Cc: "Steve Letch (Rogers Geotechnical)" [REDACTED]
Subject: RE: 48 wilton road. Planning application conditions

Hi Zaheer,

Have you spoken to a piling contractor at all yet? The method of piling will ultimately decide what action needs to be taken in terms of slope monitoring. I've provided some comments in red with regards to the council's comments. It would appear that most information they need now is from the piling contractor.

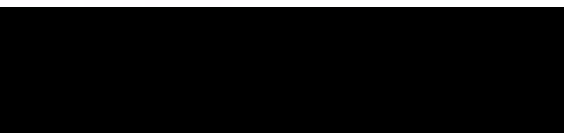
- It confirms that piled foundations will be used to ensure that the building loads will be transferred to soils at depth, but in this regard it also suggests that tests at the required depths have not been undertaken (this isn't true – we said that physical samples haven't been brought to surface, as the sampling tool couldn't reach down beyond 8m, however a dynamic probe test has gone down to 11m and proven the likely 'set' depth of the piles. These will need to be confirmed by the piling contractor).
- Additional information may be required to inform a full design of a piled solution (a piling contractor may well ask for further information depending on the chosen piling method – they may not, as many can establish designs from both the windowless sample boreholes, which includes SPT results to 7m, and dynamic probe tests to 11m).

- The report also identifies that a suitably qualified engineer should assess the slope stability during the piling phase but it does not propose any monitoring methods to be utilised (This is true, however any monitoring methods would need to be confirmed once a piling contractor establishes which method will be used. Please note some monitoring methods would be beyond RGS' expertise).
- It is considered that the report affirms Metrolink's concerns regarding the potential for the Metrolink cutting slope to be adversely impacted by the works but does not address how this will be mitigated and/or monitored (We have said that CFA or helical displacement piles would mitigate this risk: "As such, consideration could be given to the use of helical cast-in-place piles at this site, such as continuous flight auger (CFA) or helical displacement piles. **These systems have the advantage of minimal vibration**". We have also said that pre-boring could be undertaken if pre-cast piles were going to be used, albeit some risk would remain as a re-drive would be required. Indeed, with the latter (driven piles), monitoring would be required during the installation of piling. This would be beyond our expertise however and would need to be discussed with a piling contractor. In such an event, RGS will credit you as our engineer would no longer be required).
- Additional information needs to be provided relating to the design and installation of the piles along with proposed vibration and settlement tolerances that are deemed acceptable to retaining the stability of the cutting slope, and (This needs to be addressed by a piling contractor).
- How these will be monitored (Again, once a piling method is chosen, a piling contractor needs to confirm this or point you in the direction of someone who can – it may be a structural engineer if certain equipment is required).

With regards to your own personal comments, the piles may well only be required to go to 11m, however this must be determined in a design by the piling contractor – that falls under their remit and insurances and not ours. You're probably correct with regards to the tram and lorry comments, however the local authority need this to be proven with numbers. Again the piling contractor will likely have data sheets that they can send on and provide comments.

Kind Regards,

Rob Palmer MSc, FGS, ACIEH
Senior Geoenviromental Engineer
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