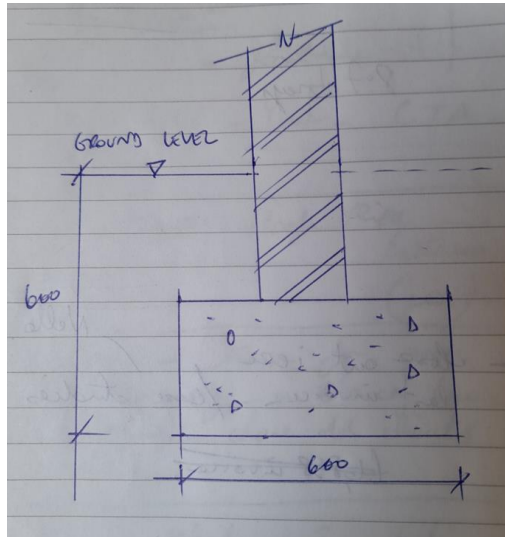


To whom it may concern.

27 September 2023

Dear sirs,

In November 2021, at 24 Hardy avenue in South Ruislip a new water mains was installed and during the works the foundations adjacent to the present kitchen were exposed. I took pictures and measurements and recorded the existing foundations to consist of a concrete strip circa 600mm (2 feet) deep and 600mm wide and bearing onto a layer of London clay.



I have carried out load take down calculations based on these strip foundation dimensions and determined the maximum bearing pressure after the added floor to be 106KN/m<sup>2</sup>. This value is less than the safe load bearing capacity of the existing foundation which can be conservatively assessed at 150KN/m<sup>2</sup>.

Furthermore, considering the foundations were installed in the 1950's, the safe load bearing capacity of the existing foundations could be increased by circa 20% due to the consolidation of the past 65 years under the current loads. The revised safe bearing capacity of the existing foundations would then amount to 180KN/m<sup>2</sup>.

In summary, based on reasonable and conservative assumptions, the existing foundations are deemed safe for the added floor level.

Regards



JP Cartz

Structural Engineer MS Civil Engineering CEng FStructE

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