

Hi Mark,

Further to our site meeting last week we can confirm that the option to design a reinforced concrete raft, as outlined in G&M Consulting site investigation report, would appear to be suitable for the property.

From the site investigation report the findings suggest there is a layer of firm clay overlying mudstone going to sandstone. The 2 No. bore hole logs state the clay is approx 2.4m - 2.7m deep, below the topsoil layer, and notes flakes of coal dust, and tree roots in BH2.

As discussed the existing building should be demolished and the site should be stripped to formation level. We anticipate that depth will be 700-800mm below ground level. Observations should be carried out during the excavation works to monitor for signs of potential coal seams close to the surface.

We anticipate that the raft slab design will be of solid slab construction, approx 250mm - 300mm deep, with reinforcement top and bottom throughout with additional reinforcement strips to wall line loads.

We must note that the site investigation carried out comprised 2 boreholes to the front garden area only. This does not allow interpolation under the proposed building footprint, and therefore we can only make assumptions that the defined geology is uniform over the site. Therefore it is important to pay attention to ground conditions encountered during all excavations.

Regards

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Director



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