

Vine St Manchester



Structural Design Philosophy

Foundation and ground slab design : the design of the foundations will be based on the results of an intrusive site investigation(phase 2 study). This intrusive work will take due account of the findings within the phase 1 (desk study) which will review site history and potential risk

Prior to the commencement of any site earthworks, a remediation strategy for the site will be produced based on the finding of the phase 2 (intrusive) report and the remediation strategy will be submitted to the LABC EHO for approval. This strategy will address risk to both end users and construction workers and make recommendations on appropriate site development measures to ensure safety

Based on the current knowledge of the site , and its proximity to the railway , it is most likely that some form of piling will be recommended in order to transfer the loads of the buildings below any potential slope slip circles. A slip analysis will be carried out to determine these zones. Network rail approvals will be sought as required

The type of piling will be either vibro , driven or contiguous with the selection made on the basis of the findings of the investigations

Due to the potential depths of made ground on site ,it is likely that ground slabs will be suspended (either beam and block or cast in situ suspended)

As part of the intrusive investigations , a regime of gas monitoring will be put in place in order to determine whether there is any potential gas issues on site , and in order to specify gas protection measures should they be required