

Our Ref: 11793/CH

22nd June 2020

Ross Thain Architects
20 Belton Street
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CONSULTING STRUCTURAL ENGINEERS

13 Allesley Old Road



Dear Nathan

1-3 Sudborough Road Slipton

Further to my report of 18th October 2018 on the initial clearance and support work for the property following the fire I would confirm that I have re-inspected specifically to comment on the amount of masonry to be rebuilt on the rear elevation. An extract showing this area is copied below.



Now the debris has been removed the wall could be inspected in detail and it is evident that from the current line where it has been taken down that this should include an additional 1m which takes it past the external buttress as can be seen on photograph No.1. The masonry on this section, apart from being significantly out of true is in a poor condition as noted when viewing the end exposed section as can be identified on photograph No.2.

Partners

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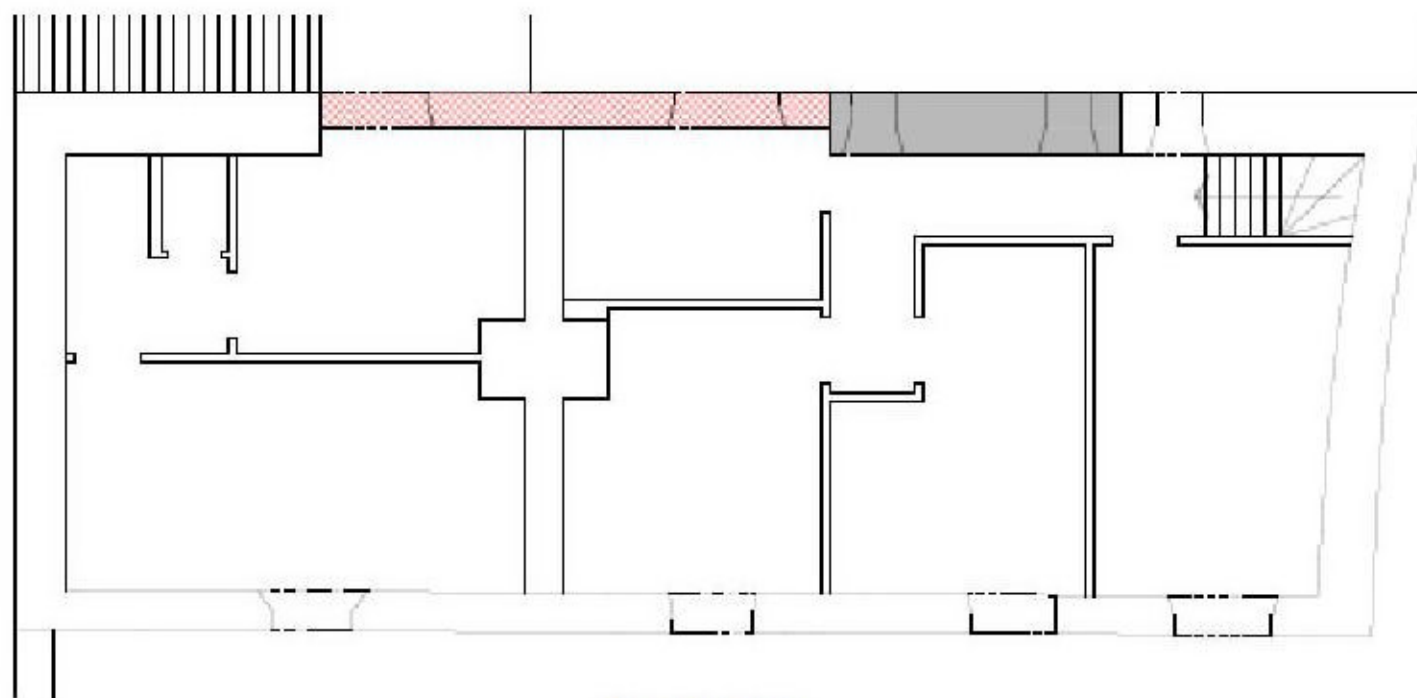
Photograph No.1



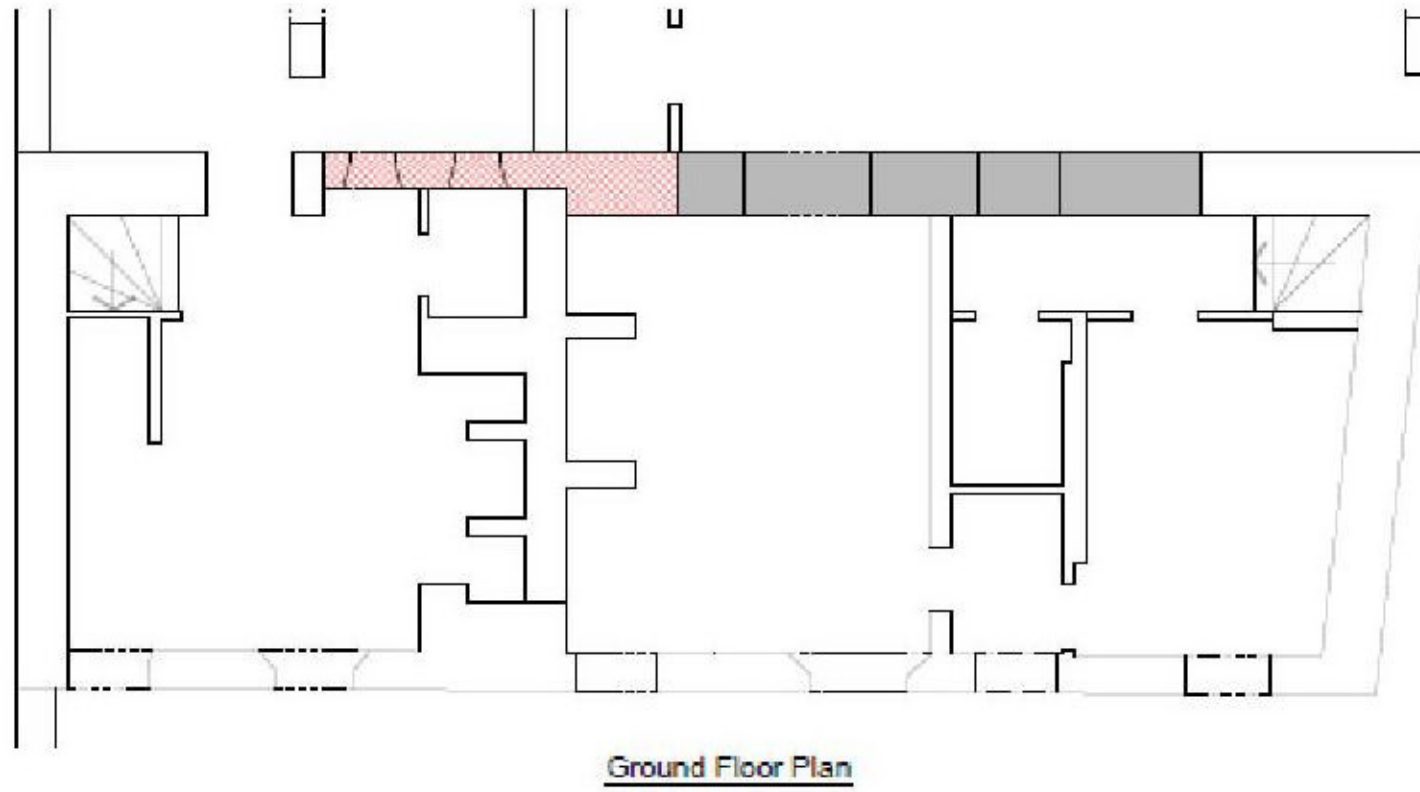
Photograph No.2

On the section of wall to the rear right hand side which is within the extension then there is an outward lean on the wall. A plumbob reading was taken and this is 150mm whereas the wall at the base is some 800mm thick and therefore the centre of gravity of the wall still falls within the base and is considered structurally acceptable. It is important that the wall is a homogenous structure and therefore it is recommended that it is grouted using a lime-based grout. The wall should then be tied to the new floor and also the roof which should be designed so that it does not exert thrust on the wall head.

Based on your proposed scheme shown on drawing 1341-02-11 and also on the demolition drawing 1341-02-10 then the amount of the existing masonry that can be retained can be increased as shown on the diagram below. The red hatch shows the areas to be rebuilt which includes that already removed and then the grey shaded section is the area previously shown as being taken down but we recommend can remain. It is appreciated that for the scheme to be viable that the first floor when rebuilt, should be 450mm wide so as to provide room for the bathroom and this is acceptable from a structural point of view. As the inner skin of the wall will now partly off the hearting then this also means that it is important for this to be grouted.



First Floor Plan



On the existing walls then the windows are a slightly different configuration than currently shown as can be made out below. It is also evident that the first floor window is a later insertion based on the brickwork forming the reveal.



Photograph No.3



Photograph No.4

I trust this clarifies our discussions on site but if you require any further information then please do not hesitate to contact me at this office.

Yours sincerely

[Redacted signature]

B.Eng(Hons)., C.Eng., M.I.Struct.E.
Conservation Accredited Engineer