

Hi Adrian,

Please see the below explanation of the new proposed structural design, which should also be reviewed thoroughly with the drawing. We would also like to thank you for the provided extensions of time on this application.

### **Beam 1**

As shown on the attached drawing 10139-02-P7, the proposed structural design to beam 1 incorporates the use of 2 parallel flange channels (PFCs) measuring 150x75x18, which will be located either side of the wattle and daub partition, therefore causing minimal disturbance to the wattle and daub partition. These 2 PFC's will, so far as possible, be located beneath the built up floorboards used to level the existing floor and the original floorboards below. The PFC's will then be fixed to either side of the existing beam 1 using bespoke steel hangers, therefore fully supporting and retaining the beam whilst rendering it structurally redundant. Detail 1 provides a section showing the visual perspective of the above.

The PFC's will bear onto the existing walls below, there may be requirements for the installation of posts for further support but this can only be confirmed on site. Provisionally, 2 no. posts measuring 100x100x5.0 SHS have been allowed for and their potential locations are shown in the Part Ground Floor Plan section of the drawing. These would clearly require footings beneath the existing ground floor structure.

There is also the potential that the central pier of the rear window upon which the beam rests may need rebuilding to support the new steels being inserted, depending on its condition when opened up. This would only be undertaken if absolutely necessary. It should be noted that this location is to the pier between W4 on the joinery report. If required, this would be undertaken with a local sandstone in the closest possible matching appearance to the surrounding stonework.

### **Beam 2**

As shown on the attached drawing 10139-02-P7, the proposed structural design to beam 2 no longer incorporates the use of a structural steel above. The new proposed repair is for the provision and use of oak packers for insertion into the shakes of the beam, with coach bolts to be used to secure the oak packers in place and provide further structural support in this beam. Detail 2 provides a section showing the visual perspective of the above.

### **Beam 3**

As shown on the attached drawing 10139-02-P7, the proposed structural design to beam 3 in the dining room has not changed. The proposal is still to leave the existing beam in its place and insert a 152x152x23UC steel beam below to provide additional support to the solid wall above. Section F-F provides a section showing the visual perspective of the above.

We hope the above is ok, however if you have any further questions please feel free to let me know.

Regards

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