

SUMMARY STATEMENT

1. My name is Stephen James Hogg. I am a Technical Director in the structural engineering buildings group at Aurecon's Christchurch office.
2. I have prepared evidence on behalf of the **Christchurch City Council** to provide structural engineering technical evidence on the submissions seeking that the Harley Chambers, Daresbury Homestead and Antonio Hall buildings be removed from the Schedule.
3. My evidence is based on my site inspections of Harley Chambers and Daresbury Homestead which I have completed and the review of relevant documentation for all sites.
4. My evidence addresses the structural engineering matters relevant to these submissions; that is, whether there are viable engineering options to repair the buildings to a safe and useable condition.
5. In relation to Harley Chambers and Daresbury Homestead the most detailed engineering assessment reports are those prepared by Quoin Consulting Engineers. I consider these are the most relevant reports when considering the viable engineering options to repair the buildings to a safe and useable condition.
6. In the case of Harley Chambers I agree with the damage assessment and repair methodologies proposed by Quoin Consulting Engineers.
7. I also agree with the proposed methodology for retaining the façade as part of a new building constructed behind
8. In the case of Daresbury Homestead, I agree with the damage assessment and broadly agree with the repair methodology proposed by Quoin Consulting Engineers. I consider other repair options such as shotcrete skin walls or fibre overlay are available which have not been fully evaluated, however I also consider it is unlikely that these options will make a significant difference to the overall cost of repair.
9. In relation to Antonio Hall, I have not visited this site but have reviewed engineering reports and photos.
10. I consider it is possible to repair and strengthen the remaining buildings from a technical engineering viewpoint.

11. I consider the repair and strengthening of Harley Chambers, Daresbury Homestead and Antonio Hall is possible from a technical structural engineering viewpoint however I have not considered the economic feasibility to do so.

Date: 28 November 2023

Stephen Hogg