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INTEGRATED DESIGN

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840/500/RB/rb

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Method statement for the fixing of new plaster ceilings to the existing ceiling structure in the bedrooms.

This statement has been prepared as part of an application to modify an existing listed building consent.

Existing floor and ceiling construction. See drawing 840/500/SK01

The principal structural members are the load-bearing masonry walls and the inverted tee cast-iron beams. There are timber floors spanning between the walls and the cast-iron tee beams. There are brick jack arches spanning between the walls and the tee beams, with tie rods.

The timber ceiling joists hang via a nailed connection from the timber ceiling beams, which span between the walls and the tee beams. At the walls the ceiling joists sit in a pocket. At the tee beams they are notched over the beam flange. The tops of the ceiling beams are scribed to follow the profile of the jack arches. A slot was formed in the jack arches at each end to accommodate the ends of the ceiling beams. This form of construction is contemporary with and similar to that of the Palace of Westminster.

Proposed works. See drawing 840/500/SK02.

Preparation:

(this work would be necessary even if no secondary ceilings were to be installed)

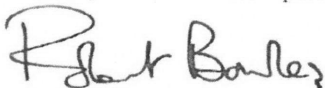
- 1) Inspect existing ceilings for cracks and areas of loose plaster.
- 2) Record these areas
- 3) Investigate the cause of the damage.
- 4) Undertake remedial work appropriate to the damage.

Non-destructive investigation

- 5) With the aid of a metal detector, locate lines of nails securing laths to existing ceiling joists and mark lines of ceiling joists carefully.

Install new ceilings

- 6) Screw new top hat sections to existing ceiling joists through existing plaster. (screws to be long enough to go properly into the joists). Screws must be located so they connect into the ceiling joists, not between joists.
- 7) Screw new plasterboard to top hat sections.



Robert Bowles  
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ARCHITECTURAL CONSULTING ORGANISATION DESIGN BUILDING PROJECT MANAGEMENT CONSTRUCTION MANAGEMENT

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