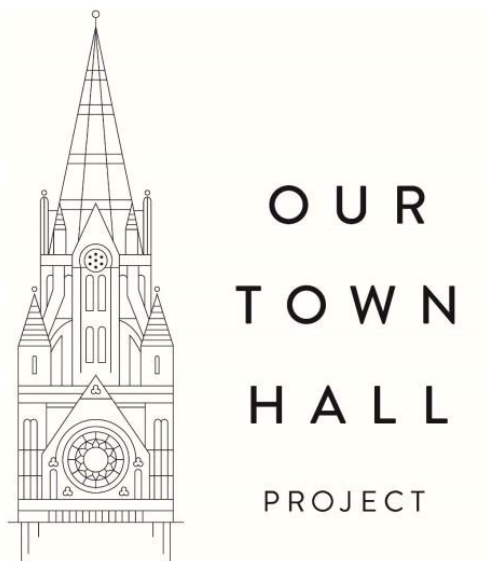




## Floorboard removal

Doc number: OTH-MCB-TH-ZZ-TSB-X-0002

Status: S3

Rev: P02

Document Type: Technical Submittal

Date: 06/01/2021

### Issue History:

| Revision Nr | Details                                          | Date       | Created By | Check by |
|-------------|--------------------------------------------------|------------|------------|----------|
| P01         | Document created                                 | 07.12.2020 | B Douglas  |          |
| P02         | Wider team comments included in yellow highlight | 06.01.2021 | B Douglas  |          |
|             |                                                  |            |            |          |
|             |                                                  |            |            |          |



## Our Town Hall

### Works Technical Submission

**Works Package Name:** Structural alterations

**Works Package Number:** unknown

**Task/Activity:**

Removal of Timber floorboard and joists

**Location:**

All areas within McCrory work areas where slabs and penetrations are to be formed in the floor

**Date:** 25.11.20

**Start Date of Activity:** January 2021

#### Scope/Overview:

A major part of the structural alterations package is the removal of concrete slabs within the town hall (over 900m<sup>2</sup>)

Part of these works involve the removal of the timber boards and joists above the slab penetration to be made.

An example of these works are photographed below (prosed new visitor lift, work area 04 on the package key plan)



### Sequence (incl. hold/inspection points):

1. We will agree with lend lease / heritage architect if the floorboards are to be saved or not prior to starting works. So far we have been advised the following as guidance as to what is to be kept / disposed

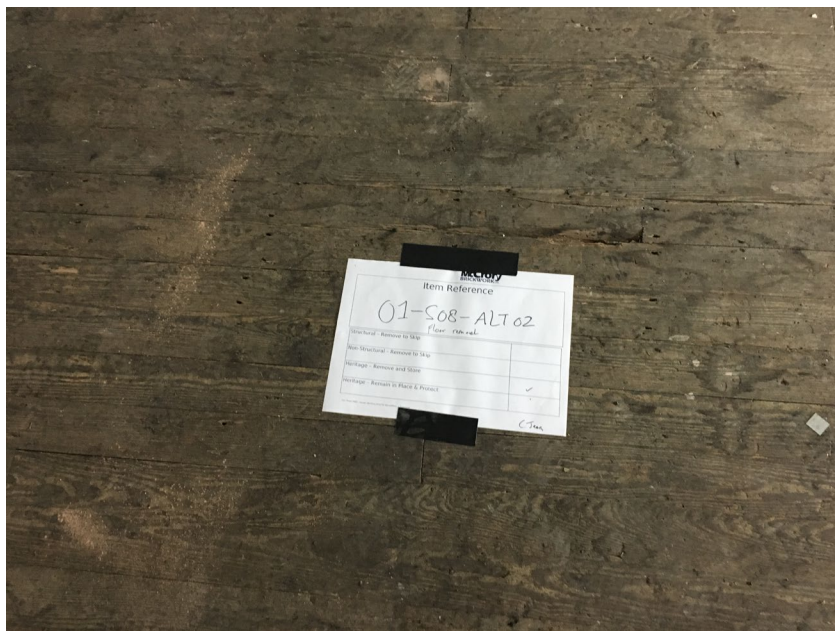
*Assessment/retention principle developed by Purcell and agreed by MCC-*

*-Boards longer than 2m retained*

*-Boards shorter than 2m dispose*

*-Damaged/split or rotten boards disposed*

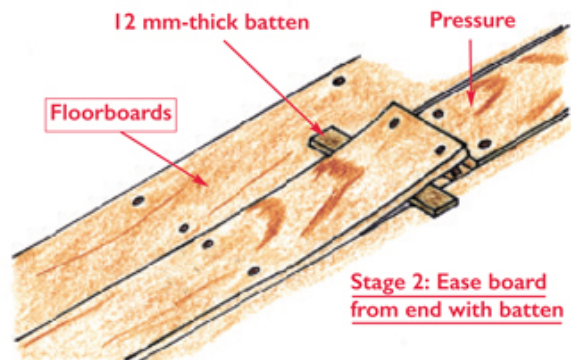
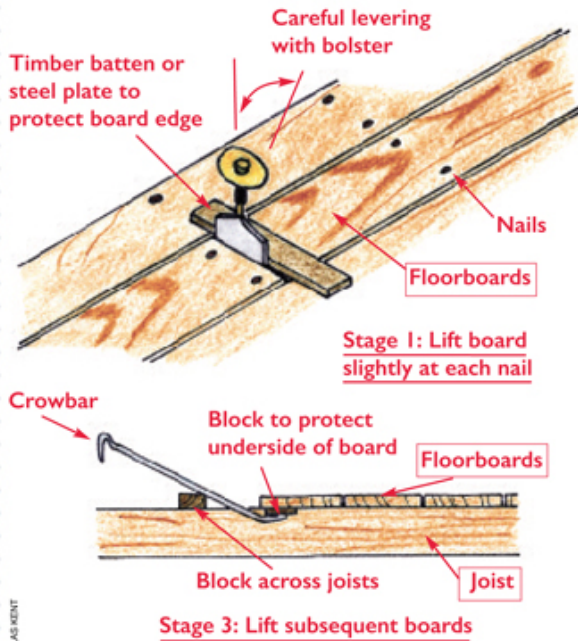
2. We will photograph the room prior to removal and label up using the Purcell demolition drawing references (example shown below)



3. The floorboards will be lifted using hand tools, no cutting of the boards unless absolutely necessary (at which point this will be done with the small multitool for accuracy and care, with prior consent from lend lease)
4. Skirting Removal and Salvage is not part of the McCrory works package – this will be carried out by other parties employed by LL if and when required. We anticipate we can lift our floorboards and joists and maintain the skirtings in place intact if they have not been removed beforehand.
5. The floorboards will be stacked neatly in the adjacent room, on timber skids labelled up with the location they were removed from clearly labelled up with a laminated sign (referencing the Purcell demolition reference)
6. After removal and dust and debris under the floor will be vacuum cleaned up
7. We are anticipating that Floor joists are sat / bedded on a brick packer back to the supporting I-Beams in the dennet slab. These joists will be lifted, cleaned off and stacked accordingly.

McCrory are a member of SPAB (society for protection of ancient buildings) and we have sort their best practice guidance on the removal of heritage floor boards.

# Lifting floorboards



DD KENT

We are expanding the Technical Q&A section of the SPAB website with a series of drawings, such as this sequence illustrating a method of lifting butt-  
edged floorboards. For advice on floorboard repairs and other common issues, please go to [www.spab.org.uk/advice/technical-q-as](http://www.spab.org.uk/advice/technical-q-as)

Note to the above sketch – If the floor boards are tongue and groove we will start at one side of the room, and work our way across the space in a similar manner as a to avoid splitting the tongue/grove junctions.



**Benchmark/Samples:**

When we start work it will be oversaw by a McCrory site manager who will invite the Lend Lease Site Manager to view every stage of the process

Any updates to the work methodology can be discussed and addressed then and we will seek formal sign off for the methodology amendments

We think we have around 6 weeks of these works to get through

| Heritage Considerations:                              | Controls:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials: (New, existing and waste streams)</b>   | No new materials to be used.<br><br>We are removing existing floorboards and joists and storing for future use. Waste will be limited to debris under the floors and any short (less than 2m / heavily split timber)                                                                                                                                                                                                                          |
| <b>Protection: (Exceptions to project strategy)</b>   | When removing the boards, damage to the boards will be prevented by using a block of scrap timber under any hammers or crow bars to stop indentations. Scroll further up the document to see a sketch image of how this will be carried out<br><br>Other heritage items in the vicinity will be protected by MBL before starting works (separate cover document showing protection methods to submitted prior to starting work)               |
| <b>Building Impact: (Vibration, dust, noise etc.)</b> | There will be dust under the floorboards, which will be collected using a vacuum cleaner.<br><br>No vibrations will be caused                                                                                                                                                                                                                                                                                                                 |
| <b>Tools/Equipment: (Type, use and calibration)</b>   | Hand tools – hammer, chisel, nail puller, small crowbar, hand held scraper, knee pads<br>Power tool – Multi Tool will be used if any boards need carefully cutting.<br>Power tool – Vacuum cleaner to clear all debris under the floor boards and joists.<br><br>Protection equipment needed <ul style="list-style-type: none"><li>- Cut Resistant Gloves</li><li>- Safety Glasses</li><li>- Steel Toe Cap Boots</li><li>- Viz Vest</li></ul> |

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                | <ul style="list-style-type: none"> <li>- Hard Hat</li> <li>- FFP3 Dust Mask (as and when needed vacuum cleaning dust under floor boards)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage: (During works for reinstatement, long term off site)</b>                           | <p>We have asked lend lease to confirm the storage locations prior to starting works – so far we have told to keep them in the adjacent room. <b>Once in the room they will be handed over to lend lease ready for future re-use by others</b></p> <p>We have allowed to stack the boards and joists in the adjoining room, labelled up with a laminated sign showing there the materials have been taken <b>(as per the Purcell demolition plans)</b></p> <p><b>The floor boards and joists will be stacked on timber skids every 1.2m to prevent bowing</b></p> |
| <b>Discovery: (Type to be expected and visual signs)</b>                                       | <p>In the event of finding anything of significance under the floorboards we will stop works, and liaise with the site team</p> <p><b>there will be a stop/hold point if discoveries are made. And work will not commence until permission has been granted by LL</b></p> <p><b>Potential discoveries could be</b></p> <ul style="list-style-type: none"> <li>- Materials of significance under the floorboards</li> <li>- Rotten timbers and joists</li> </ul>                                                                                                   |
| <b>Workforce Awareness: (Tool box talks and briefing by design consultants prior to works)</b> | <p>The workforce will be briefed in detail on the methodology/ SPAB guidance, a McCrory manager will oversee these works.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Project Team Approval to Commence Works |            |           |      |
|-----------------------------------------|------------|-----------|------|
| Organisation                            | Name       | Signature | Date |
| MCC                                     | Paul Mason |           |      |
| Purcell                                 |            |           |      |
| ARUP                                    |            |           |      |
| Ramboll                                 |            |           |      |
| Planit                                  |            |           |      |
| Lendlease                               |            |           |      |
| Works Contractor                        |            |           |      |

|                      |         |         |        |             |
|----------------------|---------|---------|--------|-------------|
| Doc No: for site use | Rev No: | Issued: | Owner: | Page 5 of 5 |
|----------------------|---------|---------|--------|-------------|