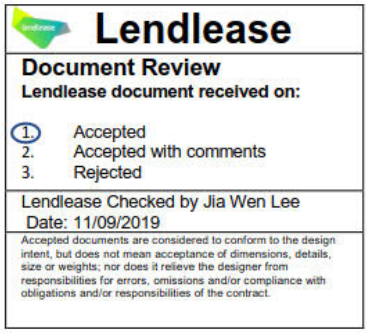
OUR TOWN HALL PROJECT

Document Name: Design Residual Register

Document Ref: OTH-HAK-TH-ZZ-RRR-V-0001

Status: D2 – Suitable for Tender

Document Type: Risk Register



Revision History:

REV.	DATE	DESCRIPTION OF CHANGE
P01	30/08/2019	Issue For Tender

Risk Register

Produced in Compliance with the Construction (Design and Management) Regulations 2015

Office Address:	**Hulley & Kirkwood Consulting Engineers** **2 Commercial Street** **Manchester** **M15 4RQ**
Office Telephone No.:	**0161 832 2030**
Office Fax No.:	**0870 928 1028**
Office E-mail address:	hk.manchester@hulley.co.uk

Project Title:	**Manchester Town Hall Catering Works**
Project Number:	**50801**
Client:	**Manchester Central**

Register Revision:	**P01**					
By:	**SL**					
Date:	30 August 2019					
Checked By:	**RB**					
Date:	30 August 2019					

Project Stage: Pre-Construction

The potential severity of injury that could be caused by the hazard are based on the following criteria:
High - Possibility of fatality. **Medium** - Possibility of severe injury and/or permanent disfigurement. **Low** - Possibility of minor injury

Item No	Activity	Hazard and Associated Risk	Comment	Action	Severity of Injury
1	Existing Services	Risk of damage associated with modifications for building works. Electrocution high severity with potentially unknown power services.	Given the age of the building there is the possibility that not all existing services will be known and striped out as appropriate.	Main Contractor	High
2	Hot Working	High temperature fixing/jointing of pipework subjects operatives to direct hazards of burns etc. and indirect hazards associated with combustible materials on site.	Minimise, where possible, the need for pipework services requiring hot works.	H&K	High
3	Working at Height	Installation of equipment at high levels including voids.	Placement of services to reduce risk of falls from height and access restrictions. Consideration shall be given to the location of equipment to enable future removal/replacement.	Main Contractor	High
4	Working in Confined Spaces	Working within ceiling voids, service zones and/or undercrofts.	Risk can be reduced by locating services in coordinated locations close to defined access zones and within approved routes.	H&K	High
5	Fixing to existing structure	Potential presence of asbestos.	Given the age of the building there is the possibility that not all existing asbestos installations will be known and striped out as appropriate.	Main Contractor	High

6	Safe Access	Installing/Maintaining plant	Where possible, plant has been located within appropriate distances above the ceiling levels, however, we would note that this has not been possible in all instances and as such suitable arrangements will need to be allowed for gaining access for installation and maintenence in a safe manner.	Main Contractor/ End Client	Medium

Project Stage: Construction

The potential severity of injury that could be caused by the hazard are based on the following criteria:
High - Possibility of fatality. **Medium** - Possibility of severe injury and/or permanent disfigurement. **Low** - Possibility of minor injury

hulley & kirkwood
consulting engineers

Item No	Activity	Hazard and Associated Risk	Comment	Action	Severity of Injury
1	Existing Services	Risk of damage associated with modifications for building works. Electrocution high severity with buried power services.	Undertake stripping out/modification work as detailed and in accordance with safe working practice/method statements. A locating device shall be used to determine cable positions and routes prior to excavation.	Contractor	High
2	Hot Working	High temperature fixing/jointing of pipework subjects operatives to direct hazards of burns etc. and indirect hazards associated with combustible materials on site.	Minimise, where possible, the need for pipework services requiring hot works. Hot works may be required on larger diameter steel pipework.	Contractor	High
3	Working at Height	Installation of equipment at high levels including voids.	Appropriate scaffolding access platform to be provided, complete with handrails, toe boards etc. Fall Restraint / Arrest System to be used. Operatives to work in pairs, one on the platform, one on the ground at all times. Area around scaffold shall be cleared prior to work commencing.	Contractor	High
4	Working in Confined Spaces	Working within ceiling voids, service zones, undercrofts.	Contractor shall ensure that access/egress from confined areas is clear. Works in confined areas shall be supervised. Thorough coordination shall be employed where multiple disciplines of services are present.	Contractor	Medium
5	Manual Handling	Delivery/installation of equipment	Objects to be moved by mechanical methods where practicable. Employ double-handed operations for large objects.	Contractor	Medium

6	Working in Confined Spaces at height	Services installations within void required.	Appropriate scaffolding access to be provided, complete with handrails, toe boards etc. to enable both access to full height of void. The contractor shall ensure that the area directly below is cordoned off to prohibit unauthorised access during the completion of these works.	Contractor	Medium
7	Working within designated plant areas	Danger from moving parts, hot works, trip hazards, electrocution.	Contractor shall ensure that only skilled operatives work within specialist areas. The correct hazard signage shall be employed. All portable and temporary leads shall be positioned to prevent damage from site traffic and to reduce trip hazards.	Contractor	High

Residual Risk Schedule

Notes to the building owner or operator

1. This schedule identifies the residual risks that have been identified by the design team associated with the services installations and are deemed to be unusual in some respect.
2. The schedule is not exhaustive and the owner or operator should treat this schedule as a live document.

3. It is assumed that the building owner or operator shall employ maintenance personnel or a company specialised in services maintenance.
4. The potential severity of injury that could be caused by the hazard are based on the following criteria:
High - Possibility of fatality. **Medium** - Possibility of severe injury and/or permanent disfigurement. **Low** - Possibility of minor injury

Item	Description of Hazard and Associated Risk	Comment	Severity of Injury
1	Working at heights	A proportion of the new plant for the building is provided at high levels including voids. It is suggested that the client operate a permit to work system for the plant area and utilised trained personnel only.	High
2	Working within electrical switch rooms	Client shall ensure that only skilled operatives work within specialist areas such as electrical switch room via a permit to work system.	High
3			
4			
5			
6			
7			
8			
9			
10			