TROUP BYWATERS + ANDERS

LSHTM

KS3D Social Space

Heritage Report Appendix B

LH0515-RPT-002

Prepared for LSHTM
January 2023

High-performing partnership
Higher performing buildings

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PROJECT

LSHTM KS3D Social Space

PROJECT NO

LH05155

REPORT

Heritage Report Appendix B

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1.0 Introduction

1.1 Introduction

This appendix has been prepared for the LSHTM KS3D Social Space Project and gives an overview of the MEP proposals for the refurbished refectory, kitchen, bar and adjacent office areas on the lower ground Level.

The project is to have limited impact upon the other areas of the building.

1.2 General Approach

From a heritage perspective, the general approach for this project is one of reusing existing central plant located outside of the project area (including plant upgrades or replacement within the existing footprint) and to provide all new services within the project spaces.

Existing services infrastructure distribution routes from the central plant to the project area shall be reused without increasing their physical size (i.e. no change which would impact upon the building fabric).

New high level services installations will generally be exposed suspended from the soffit in the refectrory and flexible working spaces, and concealed within new ceiling voids in the kitchen area.

Wall mounted services outlets shall be concealed within new partitions or where new finishes are proposed to existing walls. Where existing finishes are being retained on walls of significant interest, surface mounted outlets shall be used, however mounting of new outlets on walls of significant interest shall be avoided as far as possible.

2.0 Services Descriptions

2.1 Mechanical Services

2.1.1 Ventilation

The project area is served by 3 separate ventilation plants located at roof level. It is proposed to retain these with refurbishment / upgrade. The distribution ventilation ductwork from the central plant to the project space is proposed to be reused without changing the physical size within existing risers and existing horizontal routes.

New ventilation ductwork is proposed in the project space to suit the reconfiguration and proposed use. New ventilation ductwork is proposed to be exposed, fixed to the underside of the structural soffit.

A new kitchen extract canopy is proposed for the new kitchen area (refer to catering consultant information for further details).

A new local ventilation system is proposed for the WC area which shall discharge at lower ground level via the windows in the Keppel St lightwell.

2.1.2 G04 & G05 Ventilation

The existing ground floor conference rooms G04 and G05 are fed by ductwork that rises up from lower ground floor to ground floor using the old dumb waiter shaft. Ductwork runs at high level lower ground floor and uses the high level windows on Gower street to intake and exhaust air. This is an existing installation which shall have the ductwork at the lower ground floor and associated intake and exhaust reconfigured to suit the proposed lower ground floor layout. The intake and exhaust shall follow the existing arrangement of using the high level windows however the location shall be amended (locally relocated along the same façade).

2.1.3 Natural Gas
The existing kitchen area is served by a dedicated 50mm metered natural gas supply with the utility meter located within adjacent Vault number V06. This shall be retained with the gas distribution pipework reconfigured to suit the proposed new kitchen location.

2.1.4 Domestic Hot and Cold water Services
The existing incoming water services and central hot water generation plant shall remain unchanged. The hot and cold water services pipework shall be reconfigured within the project space to suite the proposed kitchen and WC's. New pipework shall be run at high level fixed to the structural soffit.

2.1.5 Above Ground Drainage Services
The new above ground drainage shall be provided to serve new basins, WC's and kitchen appliances to suit the proposed layout. Please refer to the structural engineering section for details of the below ground drainage proposals.

2.1.6 Heating
The south courtyard is served by underfloor heating which is proposed to be retained without alteration.

Generally heating for the remainder of the project area is provided from the ventilation systems.

2.2 Electrical Services

2.2.1 Electrical Power

The existing electrical infrastructure is proposed to be retained without alteration. Existing cable routes shall be utilised for the new submain cable for the proposed new kitchen distribution board. New distribution boards are proposed for the project areas and are proposed to be located within new electrical cupboards in the space.

All existing small power outlets are proposed to be removed within the space and replaced with new to suit the proposed new layout and functional requirements.

New cable containment systems shall be provided at high level in the space from the new local distribution boards. These shall be routed at high level fixed to the structural soffit. Generally the containment routes shall be exposed and routed to provide a neat appearance.

New small power outlets shall be recessed where there are new partitions and/or new finishes proposed on existing walls. Where existing walls of significant interest are being retained, the proposal shall be to avoid mounting power outlets on these walls unless this cannot be avoided (due to functional requirements), in which case, surface mounted outlets shall be proposed.

2.2.2 Lighting
The existing lighting shall be removed and replaced with new to suit the new layout and function of the space. Generally surface/suspended lighting is proposed in areas without ceilings and recessed lighting is proposed where ceilings are being fitted. Lighting shall be low energy LED with automatic controls. Lighting scene setting is proposed for refectory and flexible use spaces. Manual switching is proposed in the kitchen areas.

2.2.3 ICT data
New data outlets are proposed for the project areas. The mounting of data outlets shall follow the approach of the small power outlets.

2.2.4 Fire Alarm
The fire alarm system installation within the project areas shall be adapted to suit the new layout. Detectors shall be soffit mounted.

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2.2.5 Access Control and Security
The area has existing access control proximity card access which shall be adapted to suit the new kitchen arrangement.

Existing POE type CCTV cameras are provided throughout the refectory area. These shall be relocated as required to suit the new layout.

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