

**Mechanical & Electrical Services  
Scope of Works Overview**

For

**Proposed CILT, WP &  
Computer Study Refurbishment**

At

**Phillips Building Library level A**

on behalf of

**SOAS University of London**



Produced by



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## 1.0 Mechanical Services.

### 1.1 Area A004

Existing exposed high level fresh air ductwork distribution extending from north west WC ceiling void to be removed back to exit from WC/ Library wall

Existing exposed high level extract ductwork distribution extending from north west library area plant room to be removed.

Existing high level rain water pipework to be retained.

Existing high level refrigeration pipework from north west riser to south server room to be retained.

New high level fresh air ductwork distribution extending from north west WC to be routed around perimeter at high level with side wall diffusers. Cross talk attenuation to be duct mounted between rooms. Exhaust air to route via high level cross talk attenuator ducted to partition mounted louvre for discharge into main library area.

New ceiling mounted chilled water 4 way cassette to centre of room with wall mounted controller and ceiling mounted PIR occupancy sensor to control operation of each unit. New chilled water to enter from corridor behind and route below new ductwork setting up to serve cassette unit via valve set. Exposed pipework to be thermally insulated with foil faced insulation. Condensate drainage to be laid to fall routed to SVP in riser.

### 1.2 Area A003

Existing high level fresh air side wall supply diffusers to south elevation partition walls to be retained.

Existing high level rainwater pipework to be retained.

Existing high level refrigeration pipework from north west riser to south server room to be retained.

Existing exposed high level fresh air ductwork distribution extending from A004 to be removed.

Existing exposed high level extract ductwork distribution extending from A004 to be removed

Cross talk attenuation to fresh air supplies between rooms is not possible to install with concrete fresh air duct routed via to corridor ceiling. Exhaust air to route via high level cross talk attenuator ducted to partition mounted louvre for discharge into main library area.

New ceiling mounted chilled water 4 way cassette to centre of room with wall mounted controller and ceiling mounted PIR occupancy sensor to control operation of each unit. New chilled water to enter from corridor behind and routed fixed to ceiling to the side of retained high level cable containment setting up to serve cassette unit via valve set. Exposed pipework to be thermally insulated with foil faced insulation. Condensate drainage to be laid to fall routed to SVP in riser.

## 2.0 Electrical Services

### 2.1 Area A004

Existing sub-mains and distribution board to be retained and concealed within accessible cupboard.

Within the new sub-divided area rooms, the existing lighting is to be replaced with new energy efficient LED luminaires, fitted to existing suspended lighting trunking. New lighting to be mounted on surface fixed lighting trunking to be provided to newly created corridor area.

Existing fire alarm detectors and sounders to be retained, altered and additional provided to suit new sub-divided room layout to provide a L1 category system.

Existing small power and dado trunking to be retained and extended to suit new sub-divided room layouts. Where existing boxings / enclosures removed existing power, outlets removed or suitably modified.

Existing high level basket and trunking containment systems to be retained and re-used altered and modified where required to suit new layouts.

New power services to supply new mechanical services equipment to be provided using existing containment systems.

Existing category 6A data points to be retained and additional points provided where required contained within existing data baskets and existing and new dado trunking.

New access controls to be provided to all new rooms.

Existing CCTV cameras retained, relocated to suit new room layouts, additional to be provided to cover all rooms where required.

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