

London Road Fire Station

Strip-Out/ Enabling Works

M&E Services Performance Specification



Revision Record

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Table of Contents

1.0	Introduction	4
1.1	Building Description	4
1.2	Services Overview.....	4
1.3	Scope of works	4
1.4	Existing Utilities & Incoming Services	5
1.4.1	Electrical Supply, Fire Station Locker Room, Fairfield Street	6
1.4.2	Electrical Supply, Coroner's Court, London Road	6
1.4.3	Electrical Supply, Workshop No. 2, Whitworth Street	6
1.4.4	Electrical Supply, Stores Cellar, Whitworth Street.....	6
1.4.5	Gas	6
1.4.6	Water	6
1.4.7	BT 6	
1.4.8	Cable / Fibre	7
1.5	Tender stage site survey.....	7
1.6	Fire stopping and making good	7
1.7	Asbestos.....	7
2.0	Mechanical Services Strip Out.....	8
3.0	Electrical Services Strip Out & Enabling Works	10
	Appendix 1 - Retained M&E Items.....	13
	Appendix 2 - Photographs.....	44

1.0 Introduction

1.1 Building Description

The purpose of the document is to outline the strip-out of the redundant mechanical and electrical services at London Road Fire Station in Manchester.

London Road Fire Station is a Grade II * listed, former multi-use premises located within Manchester City centre and has elevations facing on to Whitworth Street, Minshull Street, Fairfield Street and London Road.

The building was constructed circa 1906 and is primarily constructed of terracotta and red brickwork.

The building will be subject to large scale refurbishment works with hotel, workspaces and event spaces proposed within various areas of the site.

This performance specification shall be read in conjunction with the Drawings, Standard Specifications and all other relevant documents and provides the proposed scope of works for the strip out / enabling works only.

The design & build (D&B) contractor shall refer to any other documentation for works in the connection with the project to facilitate co-ordination, such as, but not limited to:

- Architectural Drawings
- Structural and Civils Drawings
- Heritage and Historic Information
- M&E Services Drawings
- Any Available as Fitted/ As Built Information

1.2 Services Overview

Due to the age of the building, the M&E services are very old and past their economic life expectancy. For this reason, almost all of the existing services shall be isolated and removed. Where items of plant and equipment have been identified as having architectural or heritage merit, they shall be isolated, made safe and retained.

There are no record drawings & manuals of the existing MEP installations.

1.3 Scope of works

London Road Fire Station is a complex building with various different zones and areas that have been subject to different uses and occupiers over time.

The D&B contractor shall be responsible for all works associated with the strip out of the existing M&E services.

The D&B contractor shall ensure that any advanced or previously completed works that have been undertaken are not affected by the strip-out works and shall be retained in their entirety. Where required, advanced packages of works and site temporary supplies shall be re-connected/re-supplied as needed to ensure they remain fully functional.

The D&B contractor shall liaise with the Principal contractor, Quadriga, with regards to temporary site services which are to be retained at this time.

The D&B contractor shall be required to liaise with the Principal contractor, Quadriga, as the site will remain under Quadriga control for the duration of the works. The D&B contractor shall provide all RAMS and associated documents to Quadriga for approval prior to commencement of works.

Where existing supplies are to be isolated or re-energised, the D&B contractor shall ensure Quadriga are fully aware. Should the strip-out works require the disconnection of any Quadriga supplies during normal working hours, the D&B contractor shall provide alternate supplies to ensure Quadriga's demise remains operational.

Where strip-out works are to be undertaken, a specialist M&E contractor shall be employed to carry out the following:

- Site survey of all mechanical & electrical systems serving the building, providing distribution services and plant with temporary labels to clearly identify systems to be removed and retained. CWC's tender drawings clarify which areas need to be retained in operation.
- Isolate, drain down & make safe existing services within the building, to allow removal of affected services by a strip out/demolition contractor.
- Investigate, confirm and verify any existing live services which are to remain and highlight to the attending engineer.

The M&E services strip out shall include the following:

- a) Complete permit to work system on all gas, water and electrical systems
- b) Safe electrical isolation & disconnection, including temporary labelling to assist strip out
- c) Adapt existing infrastructure to re-supply site temporary supplies
- d) Drain down of all redundant water systems
- e) Removal from site of all redundant items of plant and equipment
- f) Removal of all redundant supports, fixings and brackets and containment
- g) Strip out and removal from site of all redundant cabling and pipework and associated services as detailed on the CWC drawings
- h) Retain and protect, and where relevant remove and store, items of plant and equipment denoted as being retained
- i) Accurate "As Left" drawings and test sheets.

1.4 Existing Utilities & Incoming Services

The original development comprised of four separate incoming electrical supplies to the whole complex, serving different sections of the building. None of these supplies are suitable for future re-use, being too old and of insufficient capacity to serve the expected development plans.

These existing supplies are listed below:

1.4.1 Electrical Supply, Fire Station Locker Room, Fairfield Street

Main incomer to Fire Station building located in basement below the Engine Shed. There are two very old (pre-1960) incoming cables at this point which are connected to an incoming board based around a busbar distributor. This has been utilised for the temporary supplies to the Phase 1 works set-up. (See photographs 1, 2 & 3 in appendix 2.0)

1.4.2 Electrical Supply, Coroner's Court, London Road

Within the waiting room to the Coroner's Court at basement level is a small three phase incoming supply with a very old (pre 1960) incoming cable. (See photograph 4 in appendix 2.0)

1.4.3 Electrical Supply, Workshop No. 2, Whitworth Street

Incoming supply fitted within the Workshop No. 2 shed opposite the main Fire Station block, adjacent to the Police Station. This supply is now not in use; the retained distribution system has been recently re-fed from the main Fire Station incomer. (See photographs 5, 6 & 7 in appendix 2.0)

1.4.4 Electrical Supply, Stores Cellar, Whitworth Street

Incoming supply fitted within the old stores basement, a small three phase installation now feeding a single isolator. Fed by a very old (pre-1960) incoming cable. (See photograph 8 in appendix 2.0)

1.4.5 Gas

The majority of the original boiler / heating plant to the building appears to have been removed or has been out of use for many years. It was almost certainly coal or oil fired and as such no large scale gas supply is present.

A small commercial sized gas meter is fitted within the coroner's court basement waiting area (capacity is unknown).

1.4.6 Water

An incoming water supply with main isolation valve enters the basement at the junction of Fairfield Street and London Road. This appears to be in poor condition.

No other incoming water supplies have been observed anywhere else throughout the site.

1.4.7 BT

The original switchboard for the whole building is located in the basement on Fairfield Road; this is of an outdated design and is comprised of large racks of electro-mechanical contacts.

1.4.8 Cable / Fibre

There is no known existing fibre or cable provision from any telecoms providers.

1.5 Tender stage site survey

The D&B Contractor shall carry out a site survey during the tender period to quantify the extent of M&E strip out works required, based on this specification and accompanying drawings.

No additional costs will be accepted through failing to comply with this requirement.

1.6 Fire stopping and making good

The D&B Contractor shall include for making good & providing temporary fire stopping where necessary in order to reinstate penetrations through the building fabric to a reasonable standard.

All fire stopping shall be installed to the same rating as the affected structure.

Where removed services passed through the external envelope of the building, the D&B contractor shall ensure that any penetrations are suitably weather proofed.

1.7 Asbestos

The building asbestos survey has identified a number of areas that contain asbestos including in flash-guards and pipework insulation. The D&B contractor shall refer to this and carry out any necessary surveys to remove the asbestos from the MEP services prior to the strip-out of the MEP services from site in accordance with all relevant regulations and guidance.

The D&B contractor will refer to the asbestos survey and be made aware of any asbestos in the areas they are to be working. If the D&B contractor discovers any asbestos that will be affected by their works, they are to stop work immediately and inform the project manager.

2.0 Mechanical Services Strip Out

There are a number of existing incoming gas and water supplies entering the building as detailed within section 1.4 of this specification.

The mechanical contractor shall liaise with the D&B contractor regarding any temporary power supplies. Where existing temporary supplies serving site welfare and office facilities are served via the building's existing infrastructure, these supplies shall be adapted and retained as part of the strip-out works.

It is intended that the mechanical services installation is to predominately be disconnected and removed with the exception of the adapted incoming supply arrangement and any plant/equipment identified as being of historical interest or that adds value to the scheme.

The D&B contractor shall be responsible for isolating and draining down/purging all plant and equipment and associated pipework prior to stripping out.

The strip-out of the existing mechanical services shall include the removal and disposal of all brackets and fixings throughout the building.

There are a number of items of mechanical plant and equipment that have been identified by the heritage architect to be retained. These items are listed in the Levitt Bernstein "Internal Finishes, Fixtures & Fittings Strategy" Document. The D&B contractor shall familiarise themselves with the requirements of this document and ensure the strip out works are carried out accordingly.

The following items of mechanical equipment have been identified in the Levitt Bernstein document, referred to above, as being retained.

Coroner's Court

Existing radiators to be retained.

Laundry

Existing mechanical equipment serving drying rack to be retained.

Officer's Quarters

Musgrave & Co wall mounted controls to be retained.

Gas Meter Testing Area

Musgrave & Co wall mounted controls to be retained.

In addition to the items listed below, there may be other items of M&E plant and equipment that are to be retained or relocated. The D&B contractor shall review the Levitt Bernstein "Internal Finishes, Fixtures & Fittings Strategy" Document and the documentation prepared by Stephen Levrant Heritage Architecture.

The items denoted as being retained within the Levitt Bernstein documentation are included within the appendices of this specification.

When removing existing services, the D&B contractor shall consider the building fabrics and heritage elements of the project and shall remove redundant equipment accordingly. Where redundant services cannot be removed without causing detrimental damage to the

building and/or building fabrics, the item of equipment shall be isolated, disconnected and removed and associated cabling and containment shall be removed up to the point it enters the building fabrics.

Where services are left partially removed as a result of the above, the remaining services shall be left cut back as close to the building fabrics as possible and shall be left in a neat and tidy manner.

Where services are removed, the D&B contractor shall be responsible for the safe disposal of all plant and equipment.

In instances where plant and equipment are to be retained but needs to be removed to facilitate the strip-out works, the D&B contractor shall arrange for the equipment be safely stored in a pre-agreed location. Where items are to be stored, the D&B contractor shall provide a full, detailed inventory and shall record the current condition of the item along with quantities and location removed from.

Where pipework is retained or re-supplied, the D&B contractor shall ensure that the pipework is arranged in a manner which prevents dead legs/branches and can be easily isolated.

All retained services shall be suitably labelled.

No works are to be undertaken on the existing rainwater drainage system as this is to be refurbished as part of the ongoing Phase 1 package of works.

Where existing services passing through facades are removed as part of the strip-out works, the D&B contractor shall ensure all penetrations are temporarily weather proofed. All penetrations through internal walls that are to be retained shall be fire stopped and suitably made good.

The D&B Contractor shall refer to the Crookes Walker Consulting mechanical standard specification MSS-01 as if it were an integral part of this document.

The D&B Contractor shall be responsible for reviewing the asbestos risk register prior to works commencing and shall ensure all works are carried out accordingly.

3.0 Electrical Services Strip Out & Enabling Works

There are a number of incoming electrical supplies currently entering the building, as detailed within section 1.4 of this specification.

The existing electrical services shall be isolated and made safe in their entirety prior to strip out works commencing.

As part of the Phase 2 works, a new HV supply and associated substation will be installed to service the building and its proposed usage. Until this supply is installed and energised, it is intended that one of the existing incoming supplies will be retained for use as site temporary supplies.

The electrical contractor shall liaise with the D&B contractor and Quadriga, the principal contractor, regarding any temporary power supplies. Where existing temporary power supplies serving site welfare and office facilities are served via the building's electrical infrastructure, these supplies shall be re-supplied as part of the strip-out works.

It is intended that the electrical services installation is to predominately be disconnected and removed with the exception of the adapted incoming supply arrangement and any plant/equipment identified as being of historical interest or that adds value to the scheme.

The strip-out of the existing electrical services shall include the removal and disposal of all brackets and fixings throughout the building.

There are a number of items of electrical plant and equipment that have been identified by the heritage architect to be retained. These items are listed in the Levitt Bernstein "Internal Finishes, Fixtures & Fittings Strategy" Document. The D&B contractor shall familiarise themselves with the requirements of this document and ensure the strip out works are carried out accordingly.

The items denoted as being retained within the Levitt Bernstein documentation are included within the appendices of this specification.

The following items of electrical equipment have been identified in the Levitt Bernstein document, referred to above, as being retained.

Fire Engine House

Illuminated fire signage to be retained and relocated.

Existing Alarm bells to be retained.

Coroner's Court

Wall mounted luminaire located above doorway to stairwell to be retained.

Chandelier located within waiting room to be retained.

Chandelier located within the public gallery to be retained.

Chandeliers located within the court area to be retained.

Bench mounted luminaires to be retained.

Laundry

Suspended pendant light fittings to be retained.

Officer's Quarters

Musgrave & Co wall mounted controls to be retained.

Gas Meter Testing Area

Musgrave & Co wall mounted controls to be retained.

In addition to the items listed below, there may be other items of M&E plant and equipment that are to be retained or relocated. The D&B contractor shall review the Levitt Bernstein "Internal Finishes, Fixtures & Fittings Strategy" Document and the documentation prepared by Stephen Levrant Heritage Architecture.

When removing existing services, the D&B contractor shall consider the building fabrics and heritage elements of the project and shall remove redundant equipment accordingly. Where redundant services cannot be removed without causing detrimental damage to the building and/or building fabrics, the item of equipment shall be isolated, disconnected and removed and associated cabling and containment shall be removed up to the point it enters the building fabrics.

Where services are left with supplies partially removed, the remaining services shall be left cut back as close to the building fabrics as possible and shall be left in a neat and tidy manner.

Where services are removed, the D&B contractor shall be responsible for the safe disposal of all plant and equipment.

In instances where plant and equipment are to be retained but needs to be removed to facilitate the strip-out works, the D&B contractor shall arrange for the equipment be safely stored in a pre-agreed location. Where items are to be stored, the D&B contractor shall provide a full, detailed inventory and shall record the current condition of the item along with quantities and location removed from.

Where applicable, waste equipment shall be disposed of in accordance with The Waste Electrical and Electronic Equipment Recycling Regulations (WEEE).

Some areas are served by more than one distribution board; therefore, it must never be assumed that circuits are isolated because a local distribution board purporting to serve that area has been switched off. Where indicated in the various zone descriptions, additional investigation will be needed on all circuits.

ALL circuits must be checked for safety before any cabling is removed.

The D&B Contractor is responsible for the design, supply, installation, testing and commissioning of all new systems provided as part of the enabling works.

The D&B Contractor shall refer to the Crookes Walker Consulting Electrical Standard Specification ESS-01 as if it were an integral part of this document.

Any services that are disconnected and/or stripped out shall be left in a safe and tidy manner and shall not be at risk of being accidentally re-energised.

Where existing services passing through facades are removed as part of the strip-out works, the contractor shall ensure all penetrations are temporarily weather proofed. All

penetrations through internal walls that are to be retained shall be fire stopped and suitably made good.

The D&B Contractor shall be responsible for reviewing the asbestos risk register prior to works commencing and shall ensure all works are carried out accordingly.

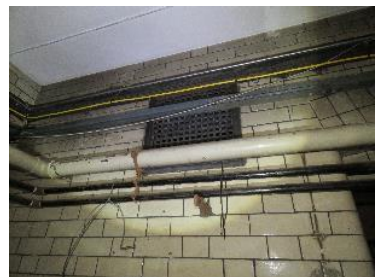
Appendix 1 - Retained M&E Items

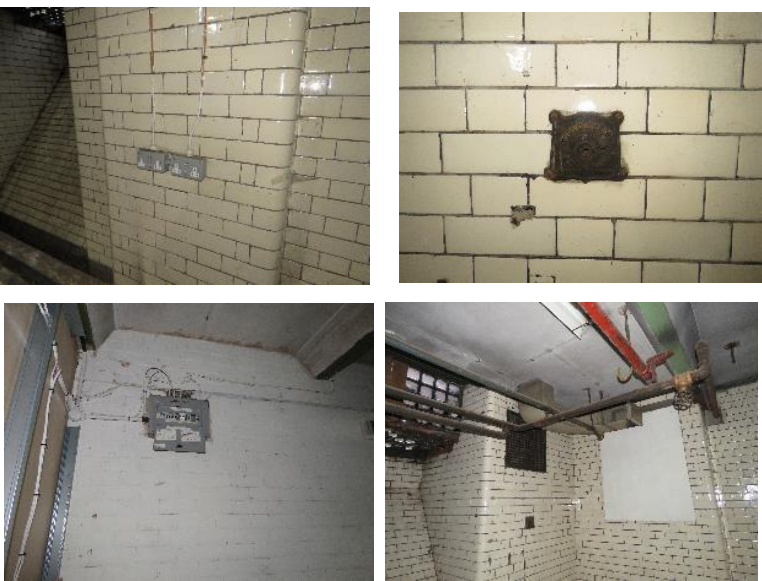
The items denoted within the table below have been taken from the Levitt Bernstein "Internal Finishes, Fixtures & Fittings Strategy" Document.

The D&B contractor shall be responsible for reviewing the information provided by Levitt Bernstein and Stephen Levrant Heritage Architecture to ensure all items required to be retained are captured.

Location	Item Description	Intervention Strategy	Images
High Significance Spaces			
Basement Level			
B.1	Incoming cast iron water pipe. Modern light, cable and conduit.	Retain Remove	
B.1 Waiting Hall	Radiators	Retained	
B.5	Musgrave & Co. Ventilation unit Misc. electricity conduit and cabling Cast iron boiler doors	Retain / relocate ventilation unit Remove all conduit and ` cable Retain	

B.5 Court	Chandeliers	Retained	  
	Coroner's bench mounted lamps	Retained	
	Cast iron radiators	Retained	

B.6	Original furnace for warm air ventilation system	Retain	
B.10	Timber shelf Ventilation grill	Remove Retain	
B.15	Musgrave Ventilation unit with slate grill Original pipes Original light fixture	Retain Musgrave unit Remove all pipes and light fixture	 
B.16	Original and modern pipes, cabling, conduits and switches Early fire switch	Remove Retain	 

B.18	Incoming electricity sign Ventilation grills	Retain Retain	
B.28	Original pipes Modern lighting / conduit / cabling / switches and plug sockets/ fuse board Original ventilation ductwork Original hot air Concrete drainage channel Ventilation grill	Remove all Remove Retain original Retain all	
B.31	Gas heater Coat hooks ventilation grill	Remove all retain ventilation grill.	

B.34	Pipes Toilet and sink Cistern Hot water unit Misc. electrical cables, switches and light Misc. pipes	Remove all Retain ventilation grill	
B.35	Ventilation grill Modern mirror	Retain grill Remove mirror	
B.36	2no. Original ceiling lights 2no light fixtures to coroners bench Cast iron pipes and radiators Original stalls Ventilation grilles Secondary glazing	Retain all Remove secondary glazing	
B.37	Vent-Axia control Modern lighting Misc. cabling, distribution board and incoming mains Original cast iron radiators and pipes Benches Ventilation grill Ladies Room sign	Remove Vent-Axia control Remove redundant cabling Retain everything else Retain all	

B.37	Continuation of B.37		
B.38	Ventilation grill	Retain	

B.50	Early switch Conduit Original Light	Retain Retain Retain	
B.61	Fire alarm bell	Retain	
B.63	Wall mounted valve / control related to Musgrave & Co. ventilation system, bearing their name	Retained	
Ground Level			
G.01	Misc. electrical items including modern light fixtures Heating pipes and radiators Wall mounted light fitting over door to stairwell (coroner's access to courtroom)	Remove all redundant items Retain radiators for re-use. Retained	

				
G.03	Ventilation grill Brick hearth 1 no. gas lamp fixture	Remove brick hearth	 	
G.03 Waiting Room	Chandelier	Retained		

G.04	Ventilation grill 1 no. Gas lamp fixture Shelf and hook.	Retain Retain Remove	
G.04 Public Gallery	Chandelier	Retained	
G.07	Fireplace surround Ventilation grill Cell signaling box	Retain Retain Retain	 

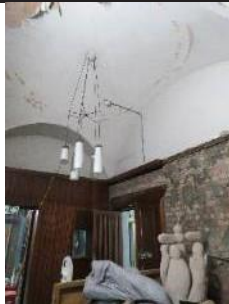
G.08	Timber screen and counter Timber brackets Ventilation grill Gas lamp fixture	Retain Remove Retain Retain	
G.09	Timber cupboard Gas lamp fixture Timber rail and brackets	Remove Retain Remove	 
G.10	2no metal and timber cell benches Ventilation grill Pattress plate WC	Retain in situ Retain Retain Remove	 
G.11	2no metal and timber cell benches Ventilation grill WC	Retain in situ Retain Remove	
G.12	2no metal and timber cell benches Ventilation grill WC	Retain in situ Retain Remove	

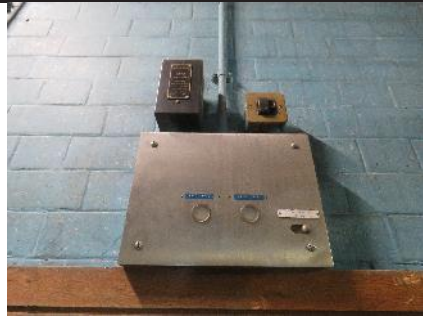
G.12 Chief Office	Wall mounted valve / control related to Musgrave & Co. ventilation system, bearing their name	Retained		
G.13	2no metal and timber cell benches Ventilation grill WC	Retain in situ Retain Remove		
G.14	2no metal and timber cell benches Ventilation grill WC	Retain in situ Retain Remove		
G.15	2no metal and timber cell benches Ventilation grill WC	Retain in situ Retain Remove		
G.16	2no metal and timber cell benches Ventilation grill and cover WC	Retain in situ Retain and remove vent cover Remove		
G.18	Fire Engine House			
	Operational fire service paraphernalia including:	Generally retained:		

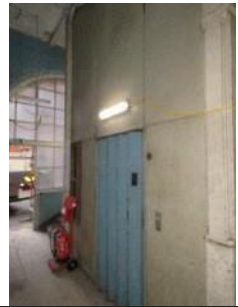
G.18	Illuminated sign (indicating call out and which fire appliances to attend) Alarm bells Gas pipes. Electrical distribution boards and misc. electrical wiring, conduit Heating pipes Speaker and cabling Water tap and pipes Radiators	Retained (relocated – is currently over a decorative tile) Retained Remove all redundant M&E items Retain / re-use elsewhere	  
G.22	Fire bells Shelving	Retain Remove	

G.23	Original radiator and heating pipes Misc. modern electrical items Timber shelf and board Ventilation grill and hot / cold plate	Retain / re-use elsewhere Remove all Remove Retain	  
G.24	Ventilation grill Large sliding door	Retain	

G.25	Ventilation grill Security bars to window Sliding door Lifting equipment to beam	Retain Remove Retain Retain	
G.26	Fuel tank gauge	Retain	
G.32	Lifting equipment Ventilation grills	Retain Retain	

G.36	Heating pipes and radiator 2no. Original ceiling lights	Retain Retain	 
G.37	Staircase balustrade Metal security bars to window Fire surround Ventilation grill	Retain Retain Retain Retain	 
G.41	Mid-century light	Retain	

G.43	Gate signal	Retain	
G.46	Speaker	Retain	
G.53	Ventilation grill Gas lamp fixing Coat hook and rail	Retain Retain Remove	
G.54	Timber boarding Sink Bracket Gas lamp outlet	Remove Remove Retain	

G.56	Ask / vent opening Timber bracket	Retain Remove	 
G.57	2no. gas lamp fixing	Retain	 
G.68	Light switch Conduit Modern light Misc. cable Ventilation control Fire alarm pint and cable Ventilation grill Lift door Hose pipe outlet	Remove Remove Remove Remove Retain Remove Retain Retain Retain	 

G.71	Original light fixture Light switch	Retain Retain	
	Ventilation grill	Retain	
G.72	Light unit	Retain	
First Floor			
1.32	Timber battens Ventilation grill Fire alarm unit	Remove Retain Retain / relocate	 

1.35	Gas lamp fitting	Retain	
1.37	Timber boxing in Ventilation grill Shelf	Remove Retain Remove	
1.40	Ventilation grill Fire Exit signs (2no.) Unknown fixture (Red pipe with hinged metal arm) Timber battens	Retain Retain Retain Remove all	

1.40	Continuation of 1.40		
1.46	Battens Ventilation grill	Remove Retain	

1.82	Light Conduit Switch Heating pipes Speaker Plug socket	Remove Remove Remove Remove Relocate / retain Remove	
1.87	Fireman's pole and cupboard Radiator brackets Ventilation grill	Retain Remove Retain	 
1.88	Ventilation grill	Retain	
1.89	Heating pipes Plug socket Speaker Light Conduit Switch	Remove Remove Retain / relocate Remove Remove Remove	 

1.90	Soap dispenser Mirror Speaker Ventilation grill	Remove Remove Retain / relocate Retain	
1.91	Mirrors Battens Fixings Speaker Ventilation grill Cistern brackets Timber board and hooks Toilet roll holder	Remove Remove Remove Retain / relocate Retain Remove Remove Remove	
1.92	Fireman's pole and cupboard Radiator brackets Ventilation grill	Retain Remove Retain	
1.93	Ventilation grills	Retain	
1.99	Early light switch Conduit Modern light	Retain / re-use Remove Remove	

1.101	Light Early switch Conduit / cable	Remove Retain for re-use if possible Remove	
1.102	Early light switch Conduit Light	Re-use if possible Remove Remove	
1.113	Large tank Misc. telephone wires and junction box Gas pipe and lamp outlet Staircase Timber cupboard Signalling box	Remove Remove all Remove pipe and retain outlet Retain Remove Relocate	

1.114	Misc. conduit Misc. electrical items Misc. cables Fire hose pipe	Remove Remove Remove Retain	
1.125	Fireman's pole and cupboard Radiator brackets Ventilation grill	Retain Remove Retain	
Second Floor			
2.23	Ventilation grill	Retain	
2.24	Ventilation grill	Retain	
2.26	Ventilation grill	Retain	
2.30	2no. Vertical pipes Plug sockets Conduit Modern light Switches	Retain Remove Remove Remove Remove	

2.35	Fire alarm Ventilation unit Misc. electrical items Light Light switches	Retain Remove Remove Retain Remove	
2.36	Ceiling vent Radiator brackets Exit sign	Retain Remove Remove	 
2.41	Ventilation grill Timber batten	Retain Remove	
2.57	Ventilation grill	Retain	

2.71	Ventilation grill Radiator brackets	Retain Remove	
2.76	Speaker	Retain	 
2.87	Cupboard Ventilation grill Fireman's cupboard	Remove Retain Retain	

2.90	Wall hatch Ventilation grill	Retain Retain	
2.92	Fireman's cupboard Ventilation grill	Retain Retain	
2.97	Timber plug socket mount Ventilation grill	Remove Retain	

2.98	Timber plug socket mount Ventilation grill Fireman's cupboard and pole	Remove Retain Retain	
2.114	Switches Plug socket Conduit Gas tap Misc. cables Timber battens Timber boards Ventilation grill	Remove Remove Remove Retain Remove Remove Remove Retain	

Third Floor				
3.01	Light switch	Remove		
3.30 Laundry	Drying rack including: Enclosure Sliding drying racks on inset rails Mechanical equipment on top of enclosure Suspended pendant light fittings	Retained Retained and reused - configuration may alter subject to tenant fit out	 	

3.31	Switches Misc. electrical items Conduit Early light	Remove Remove all Remove Retain	
3.100	Ventilation grill	Retain	
3.106	Ventilation grill Timber board	Retain Remove	

Appendix 2 - Photographs

The photographs below show the existing incoming utilities and have been taken from the CWC Utility Reports.

1. MAIN INCOMING ELECTRICAL SUPPLY TO FIRE STATION
LOCKER ROOM, FAIRFIELD STREET



2. MAIN INCOMING ELECTRICAL SUPPLY TO FIRE STATION
LOCKER ROOM, FAIRFIELD STREET



3. MAIN INCOMING ELECTRICAL SUPPLY TO FIRE STATION
LOCKER ROOM, FAIRFIELD STREET



4. MAIN INCOMING ELECTRICAL SUPPLY TO CORONER'S
COURT, LONDON ROAD



5. MAIN INCOMING ELECTRICAL SUPPLY TO WORKSHOP NO.2,
WHITWORTH STREET



6. MAIN INCOMING ELECTRICAL SUPPLY TO WORKSHOP
NO.2, WHITWORTH STREET



7. MAIN INCOMING ELECTRICAL SUPPLY TO WORKSHOP
NO.2, WHITWORTH STREET



8. MAIN INCOMING ELECTRICAL SUPPLY TO STORES CELLAR,
WHITWORTH STREET

