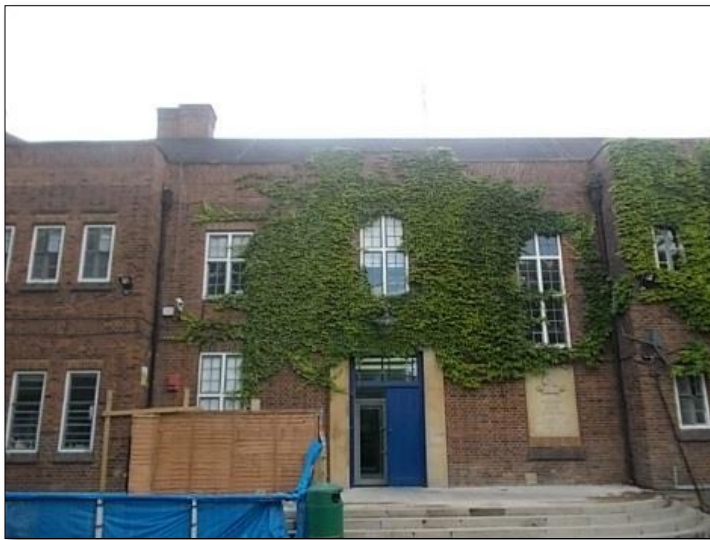




OMEGA

Environmental Services Ltd

ASBESTOS REFURBISHMENT/DEMOLITION SURVEY



Of

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For

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Table of Contents

1. EXECUTIVE SUMMARY / QUICK REFERENCE GUIDE	4
2. THE SURVEY.....	5
3. COMPLIANCE & LEGISLATION	6
4. CAVEATS	8
5. PRIORITY RATING / RISK ASSESSMENT.....	9
6. PRESUMPTIONS AND IDENTIFICATION OF ASBESTOS CONTAINING MATERIALS.....	11
7. RECOMMENDATIONS	12
Appendix 1 – Room Descriptions	13
Appendix 2 Asbestos Register.....	15
Appendix 2 – Bulk Analysis Certificate	21
Appendix 3 – Plans	22

Management Statement

This report has been compiled by the following authorised lead surveyors of Omega Environmental Services Ltd, and approved by the SHEQ Manger.

Site surveyed and report reviewed by	Matt Rubidge
Title	Surveyor
Signature	
Date	24/06/2016
Prepared for and on behalf of Omega Environmental Services Ltd	Kerri Ashcroft
Title	SHEQ Director & Lead Surveyor
Signature	
Date	21/06/2016

This Survey was carried out on:	
Start date	14/06/2016
Completion Date	14/06/2016

The results are accurate and any conclusions and recommendations made are suitable and in line with current company policy

1. Executive Summary / Quick Reference Guide

Asbestos containing materials have been identified or strongly presumed in the following locations:

Sample No	Area	Page Reference
No Asbestos Containing Materials have been identified within the scope of this survey		

The table indicates the summary of asbestos containing materials and risk assessments. This should be read in conjunction with the attached plans and complete report

The quantities of asbestos containing materials are for assistance purposes only. Any parties requiring accurate quantities of asbestos materials shall be deemed to have visited the site to satisfy themselves as to the nature and extent of the works.

For buildings where positive asbestos materials have been identified, a further inspection will be required no later than 12 months from the date of this survey.

For areas of high risk the Client should implement more regular inspections to assess the condition of the materials.

- No access below solid floor slabs
- No access into building foundations
- No access within live electrics due to no isolation certificate available
- The school was in constant use by pupils and staff, intrusive investigations to establish the extent of some identified asbestos materials was limited.
- Door frames and timber frames were not completely removed due to the scope of work in these areas being refurbishment only.
- Window sills and frames were not removed without causing damage to the integrity & security of the building

Total number of suspect materials sampled	10
Number of samples containing Asbestos	0
Total Recommendations for:	
Remove prior to refurbishment/demolition works	0
Encapsulate, label & manage in-situ	0
Manage in-situ & inspect periodically	0

2. The Survey

Omega surveyors attended site on the 14th June 2016.

Following an initial site walk, the Omega surveyors Matthew Rubidge and Kerri Ashcroft commenced the survey. The extent of the survey is detailed below and on the enclosed drawings.

Omega Environmental Services have been instructed by the client to carry out a Refurbishment & Demolition survey of the aforementioned property to selected areas as detailed in the plans submitted by Astudio Architecture.

An asbestos refurbishment/demolition sampling and identification survey was completed, encompassing the details, requirements and guidelines of HSG 264 "Surveying, sampling and assessment of asbestos containing materials", and Omega in-house procedures.

Every effort has been made to identify all asbestos materials so far as reasonably practical to do so within the scope of the survey and the attached report. Methods used to carry out the survey were agreed with the client prior to any works being commenced.

Survey techniques used involve a trained and experienced surveyors using the combined approach with regard to visual examination and necessary bulk sampling. It is always possible after a survey that asbestos based materials of one sort or another may remain in the property or area covered by that survey, this could be due to various reasons:

- Asbestos materials existing within areas not specifically covered by this report are therefore outside the scope of the survey.
- Asbestos may well be hidden as part of the structure to a building and not visible until the structure is dismantled at a later date.
- This survey will detail all areas accessed and all samples taken; where an area is not covered by this survey, it will be due to no access for one reason or another, e.g. working operatives, sensitive location or just simply no access. It may have been necessary for the limits of the surveyor's authority to be confirmed prior to the survey.
- Access for the survey may be restricted for many reasons beyond our control such as height, inconvenience to others, immovable obstacles or confined space. Where electrical equipment is present and presumed in the way of the survey, no access will be attempted until proof of its safe state is given. Our operatives have a duty of care under the Health & Safety at Work etc. Act 1974 for both themselves and others.
- In the building where asbestos has been located and it is clear that not all areas have been investigated, any material that is found to be suspicious and not detailed as part of the survey should be treated with caution and sampled accordingly.
- Certain materials contain asbestos to varying degrees and some may be less densely contaminated at certain locations (e.g. textured coating). Where this is the case, the sample taken may not be representative of the whole product throughout.
- Omega cannot be held responsible for any damage caused as part of this survey carried out on your behalf. Due to the nature and necessity of sampling for asbestos, some damage is unavoidable and will be limited to just that necessary for the taking of the sample.

The information supplied within this survey report identifies the types of asbestos materials and examples of locations where these materials are known to exist. This survey report does not precisely quantify or give measurement of the asbestos materials within the areas surveyed.

3. Compliance & Legislation

An asbestos refurbishment/demolition sampling and identification survey was completed, encompassing the details, requirements and guidelines of HSG 264 "Surveying, sampling and assessment of asbestos containing materials", and Omega in-house procedures.

The purpose of the survey is to assist the client to comply with the **Health and Safety at Work Act 1974** and the **Control of Asbestos Regulations 2012 (Regulation 4)** which contains an explicit duty on the owners and occupiers of non-domestic premises who have maintenance and repair responsibilities, to assess and manage the risks from the presence of asbestos

The asbestos survey was undertaken in line with the Omega Technical Procedures, in compliance with the standard ISO 17020, and HSG 264 - Asbestos: The Survey Guide.

The requirements placed on the duty holder are:

- to take reasonable steps to identify the locations of the ACMs
- make presumptions of materials that contain asbestos
- to compile and maintain a written record of the location of ACMs and presumed ACMs

By conducting the asbestos survey the initial steps of the duty holder's obligation have been completed.

Generally, work with asbestos insulation, insulating board and spray coating must not be carried out without a licence from the HSE although there are exceptions for very minor works - more information is available in "Work with materials containing asbestos - L143". As a general guideline, work on these materials should be carried out inside full enclosures incorporating negative pressure and decontamination facilities although minor works may be carried out in accordance with the "Asbestos Essentials Task Manual" (HSG210).

The removal of asbestos insulation, insulating board and spray coating is subject to a statutory 14 day notification to the Health and Safety Executive. The notification period is a condition of the removal contractor's licence. Note, also there may be additional restrictions placed on a licence at the discretion of the HSE.

Following the introduction of the Hazardous Waste (England & Wales) Regulations in 2005, all materials with an asbestos content greater than 0.1% by weight - including asbestos cement where applicable - is classified as a Special Waste and must be disposed of at a site licensed to accept such waste. An appropriate consignment note is also required.

Although not a legal requirement, it is recommended that a licensed asbestos contractor is engaged for any work with asbestos - including cement products - to ensure full compliance with all current legislation.

Prior to any work involving the disturbance or removal of asbestos containing materials, points that must be noted:

In accordance with the Approved Code of Practice, (ACoP), entitled 'Work materials containing asbestos - L143, all work with asbestos falls within the scope of the Code of Practice and guidance therein. In general terms, if the code applies, various provisions and regulations have to be compiled with. Although failure to observe any provision of this code is not in itself an offence, that failure may be taken by a court in criminal proceedings as proof that a person has contravened a regulation to which the provision relates.

An additional ACoP entitled The Management of Asbestos in Non-Domestic Premises (second edition November 2012) - L127 is aimed at those who have repair and maintenance responsibilities for non-domestic premises.

Omega Environmental Services Ltd have undertaken surveying, sampling and analysis following in-house documented methods, which involve systematic access, inspection and reporting. It is not possible to guarantee that all asbestos will be located within a specified site and we accept no financial or other responsibility for remedial works or disruption to programmes which may occur as a result of asbestos materials being located which are outside the scope of this survey.

4. Caveats

We have not inspected any part requiring specialist access equipment. Any requirement for specialist access equipment has been specifically excluded unless otherwise stated.

Accessible is defined as reasonably and safely reachable by foot or reachable from a step ladder up to 3m. Opening electrical equipment (e.g. switchboxes), plant (e.g. boilers, air handling units and ducted systems) and hazardous installation (e.g. chemical containers) are specifically excluded.

Where suspect asbestos materials form duct covers, false ceiling, etc. or where these materials would require disturbing to gain access to an area, they have not been displaced, as any physical disturbance of these materials may have resulted in a release of airborne asbestos fibres which may pose a hazard to health, areas beyond these covers will not have been inspected.

Where applicable entry within:

- Boilers and Plant, Live Electrical and Gas, Air Handling and Ducts shall only be accessed if agreed by the client and proof of isolation is provided

5. Priority Rating / Risk Assessment

For ease of reference of this report, and easy use where asbestos containing materials have been identified, a priority rating system has been implemented based on condition, which will allow the client the opportunity to plan any requirement for the remedial action and expenditure.

A priority rating has been assigned to each sample taken, and is based on the professional opinion of the surveyor, on the condition of the material examined. It is included to assist the client in determining priorities when drawing up a programme of action for asbestos abatement, however, it must be stressed that priorities for action must be drawn up using the priority together with a consideration of the location of the material and any work methods and schedules which may result in disturbance of the material. To assist, a material risk assessment score has been applied to each sample based on the likelihood of asbestos fibres being released into the breathing zone of persons at risk.

To summarise, the priority assessment is also the priority for action in cases where the material remains undisturbed through normal work activities. Changes in priorities can be assessed only by the client's representative on site in the light of planned or unscheduled maintenance requirements or changes in normal working patterns as they arise. The priorities are defined as follows:

No priority has been assigned - for a material where no asbestos has been detected.

VERY LOW (Score 9 or lower) - indicates a composite asbestos material which has a very low potential to release asbestos fibres in its normal occupation unless damage occurs.

LOW (Score 10-12) - indicates a more friable material that contains asbestos but is in a condition and/or location which does not give rise to a significant health risk, **PROVIDED IT REMAINS UNDISTURBED** either by routine maintenance or by personnel carrying out routine daily work activities which could cause impact or abrasion of the material. Priority Low is valid as a priority rating only if this proviso is maintained. Minor remedial action such as very minor encapsulation may be required in order that the material may remain in-situ. Clients are advised to be alert to any changes in work activities in areas where priority Low material is located. Permit to work scheme must be operated ensuring contractors, building occupants and maintenance operatives who need to know about asbestos are effectively alerted to its presence before undertaking any works in the area.

MEDIUM (Score 13-15) - indicates the material contains asbestos and is in a location and/or condition which requires some remedial action. The remedial action may be relatively simple such as applying a sealant coat to the surfaces of boards. Priority Medium materials may be encapsulated by appropriate remedial action but it is recommended that they be stripped or cleaned as appropriate as soon as resources become available.

HIGH (Score ≥ 16) - indicates materials which contain asbestos and which are in a condition and/or location which requires urgent attention. Priority High materials are usually not suited to any form of containment programme and should be stripped or cleaned as appropriate as soon as possible.

Material Assessment Algorithm (MA)

Each of the parameters which will determine the amount of fibre release from an asbestos containing material which will determine the amount of fibres release when subject to a standard disturbance are the product type, surface treatment, extent of damage or deterioration and asbestos type.

Each parameter is scored as:

High = 3

Medium = 2

Low = 1

None = 0

The Material Assessment score is calculated by adding the parameters above and the potential for releasing fibres assigned as detailed below.

Material Assessment Score	Fibre Release Potential
10 or higher	High
7 - 9	Medium
5 - 6	Low
4 or lower	Very Low

Priority Assessment Algorithm (PA)

Each of the parameters which will determine the priority assessment are the extent of the material, location of the material, vulnerability to damage and occupancy of the area.

These have a score ranging from zero to three.

The total risk assessment score is calculated by adding the priority assessment and material assessment score.

Priority Assessment + Material Assessment Score	Total Risk Assessment
≥ 16	High
13- 15	Medium
10 - 12	Low
9 or lower	Very Low

We have assigned a priority rating in accordance with the algorithm. The priority rating risk assessment is established by adding the material assessment and priority assessment to provide a total risk assessment score.

The Risk Assessment Algorithm is purely guidance to establishing a priority rating which can be adapted to allow for other factors. The survey shall take into account other parameters making adjustment to the priority rating as required to ensure the priority rating is appropriate.

To minimise the risk of exposure to fibres and damage to decorations or fabric, not all asbestos containing materials were sampled. Some were strongly presumed or presumed to contain asbestos.

6. Presumptions and Identification of Asbestos Containing Materials

Where suspect materials have been located during this investigation, their asbestos content (or otherwise) will have been determined as follows

The samples taken were returned to the laboratory with the appropriate sample/report reference number.

Analysis of the samples was carried out Clearwater Environmental Services Limited. They are accredited by UKAS in accordance with ISO 17025, for the identification of asbestos in bulk materials in accordance with HSG 248: Asbestos: The analysts' guide for sampling, analysis and clearance procedures. All samples were analysed using the optical microscopy and stain dispersion technique.

The results of the bulk sampling of suspect materials can be found on the enclosed data sheets and in the "Certificates of Bulk Analysis".

Key to analysis and type of asbestos:

Chrysotile	-	White asbestos
Amosite	-	Brown asbestos
Crocidolite	-	Blue asbestos
Non-asbestos	-	No asbestos detected in sample (NADIS)

Percentage Composition of Identified Asbestos-Bearing Materials

The UKAS accreditation for the identification of asbestos bearing materials is purely a qualitative procedure to identify the type of asbestos mineral present within a particular suspect material. Our identification procedures are in compliance with HSG248. This recognised and approved procedure does not include quantitative analysis. Any reporting of percentage composition would be speculative and would fall outside the scope of our duties.

"Strongly presumed" where a visual inspection by the lead surveyor indicates the material is visually similar to other items present within the building which have been confirmed to contain asbestos (or otherwise) using PLM.

"Presumed" asbestos is a default situation where there is insufficient evidence to confirm that it is asbestos free i.e. where there is no samples taken during a survey as requested by the client or where an area cannot be inspected or accessed. In both cases the areas must be presumed to contain asbestos unless there is strong evidence to prove otherwise.

"Presumed" or **"Strongly presumed"** asbestos containing materials are scored as Crocidolite (3) unless analysis of similar samples from the building shows a different asbestos type.

7. Recommendations

This survey report and recommendations detailed shall form part of the asbestos management plan in accordance with regulation 4 of the (CAR 2012).

To comply with and ensure that the requirements of The Control of Asbestos Regulations 2012, Health and Safety at Work Act 1974, The Management of the Health & Safety at Work Regulations 1999, Construction (Design and Management) Regulations 2015 and ACoP The Management of Asbestos in Non-Domestic Premises - It is proposed and recommended that the following are implemented and actioned:-

That asbestos airborne fibre monitoring be completed to all areas where asbestos materials have been listed under priority High or Medium which are programmed for removal at a later date, to identify if airborne fibres are being generated under prevailing conditions. It is considered that this monitoring exercise will act as a reassurance confirmation as it is not expected that airborne fibres will be generated.

The recommendations have been supplied on the "Findings Report" corresponding to the location where asbestos materials have been identified. In addition to these the following recommendations may be observed.

It will be necessary to clearly identify the full scope of the demolition processes and how this will impact on the asbestos materials. If the asbestos materials are likely to be disturbed or displaced without the appropriate asbestos controls in place, their prior removal is essential

If any asbestos materials left in situ at the end of any asbestos removal project must be left in a sound and sealed state. These materials must be labelled and/or the location documented in an asbestos register for the building. As part of the future management of the material, regular routine inspections of the material must be carried out to monitor and maintain the condition. While these materials remain in-situ, all persons occupying the building, maintenance operatives and visitors are made aware of the locations of the asbestos materials.

Any asbestos removal and remedial works as recommended must be carried out by a licensed asbestos removal contractor adopting the appropriate forms of asbestos controls and with necessary air monitoring procedures in place. The identified asbestos materials are subject to the general requirements of The Control of Asbestos Regulations 2012. However, if the materials are not subject to the 14 day notification of the intended works by the appointed asbestos removal contractor will not apply.

Where the full scope of the asbestos remedial works is identified, an asbestos removal specification must be compiled detailing the requirements of the asbestos legislation and the appropriate methodology. This specification would be incorporated within a tender document and submitted to asbestos removal contractors.

Appendix 1 – Room Descriptions

QUAD BUNGALOW – DEMOLITION SURVEY

Classroom 1

Ceiling	Walls	Floor	Doors	Windows	Other
Plasterboard	Brick & plasterboard	Carpet over modern vinyl over raised timber	Timber	UPVC	Low level MDF panels to walls

Classroom 2

Ceiling	Walls	Floor	Doors	Windows	Other
Plasterboard	Brick & plasterboard	Carpet over modern vinyl over raised timber	Timber	UPVC	Low level MDF panels to walls

Lobby

Ceiling	Walls	Floor	Doors	Windows	Other
Plasterboard	Brick & plasterboard	Modern vinyl over raised timber	Timber	UPVC & Metal	Modern fuse box on wall Modern sink pad

Roof Space

Ceiling	Walls	Floor	Doors	Windows	Other
Timber	Timber	Timber & MMMF	Modern board to loft hatch	N/A	MMMF to flooring throughout Modern roof felt

Externals

Ceiling/roof	Walls	Floor	Doors	Windows	Other
Tiles	Brick	Concrete pathways around building	UPVC	UPVC & Metal	UPVC Soffits & fascia's Plastic rainwater goods Modern damp proof course Modern roof felt Fibreboard expansion joints

MAIN SCHOOL BUILDING – REFURBISHMENT SURVEY

Classrooms

Ceiling	Walls	Floor	Doors	Windows	Other
Non-asbestos textured coating. Solid plaster	Brick, render and low level MDF in various areas	Solid floor below raised timber. Parquet flooring with non-asbestos adhesive Modern vinyl in areas	Timber doors	UPVC and metal	No access within MEM fuse boxes – presumed to contain asbestos flash guards

Corridors

Ceiling	Walls	Floor	Doors	Windows	Other
Non-asbestos textured coating. Solid plaster	Brick, render and low level MDF in various areas	Parquet flooring with non-asbestos adhesive	Timber doors	UPVC and metal	No access within MEM fuse boxes – presumed to contain asbestos flash guards

External areas where wall demolition is planned

Ceiling	Walls	Floor	Doors	Windows	Other
Non-asbestos textured coating. Solid plaster	Brick, render and low level MDF in various areas	Parquet flooring with non-asbestos adhesive	Timber doors	UPVC and metal	No access within MEM fuse boxes – presumed to contain asbestos flash guards

Appendix 2 Asbestos Register

Sample Ref	Description	Location & Extent	Asbestos Type
KA001	GROUND FLOOR LOFT SPACE- BITUMEN FELT LINING TO ROOF	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA002	GROUND FLOOR ROOM 1- INSULATING BOARD LINING TO LOFT HATCH	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA003	GROUND FLOOR ROOM 3- MASTIC ACOUSTIC PADS BENEATH SINK UNIT	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA004	SECOND FLOOR CORRIDOR 1- PUTTY SEALS TO METAL WINDOWS	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA005	FIRST FLOOR HEAD OF YEAR 10- TEXTURED COATING TO CEILING	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA006	FIRST FLOOR HEAD OF YEAR 10- VINYL FLOOR COVERING	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA007	FIRST FLOOR EXTERNAL BALCONY- PUTTY SEALS TO METAL WINDOWS	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA008	GROUND FLOOR PUPIL CHANGING- MASTIC SEALS TO METAL DUCTWORK	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
KA009	GROUND FLOOR ROOM 16- CEMENT BASED CHIPBOARD TO SUPPORT BEAM	N/A	NADIS



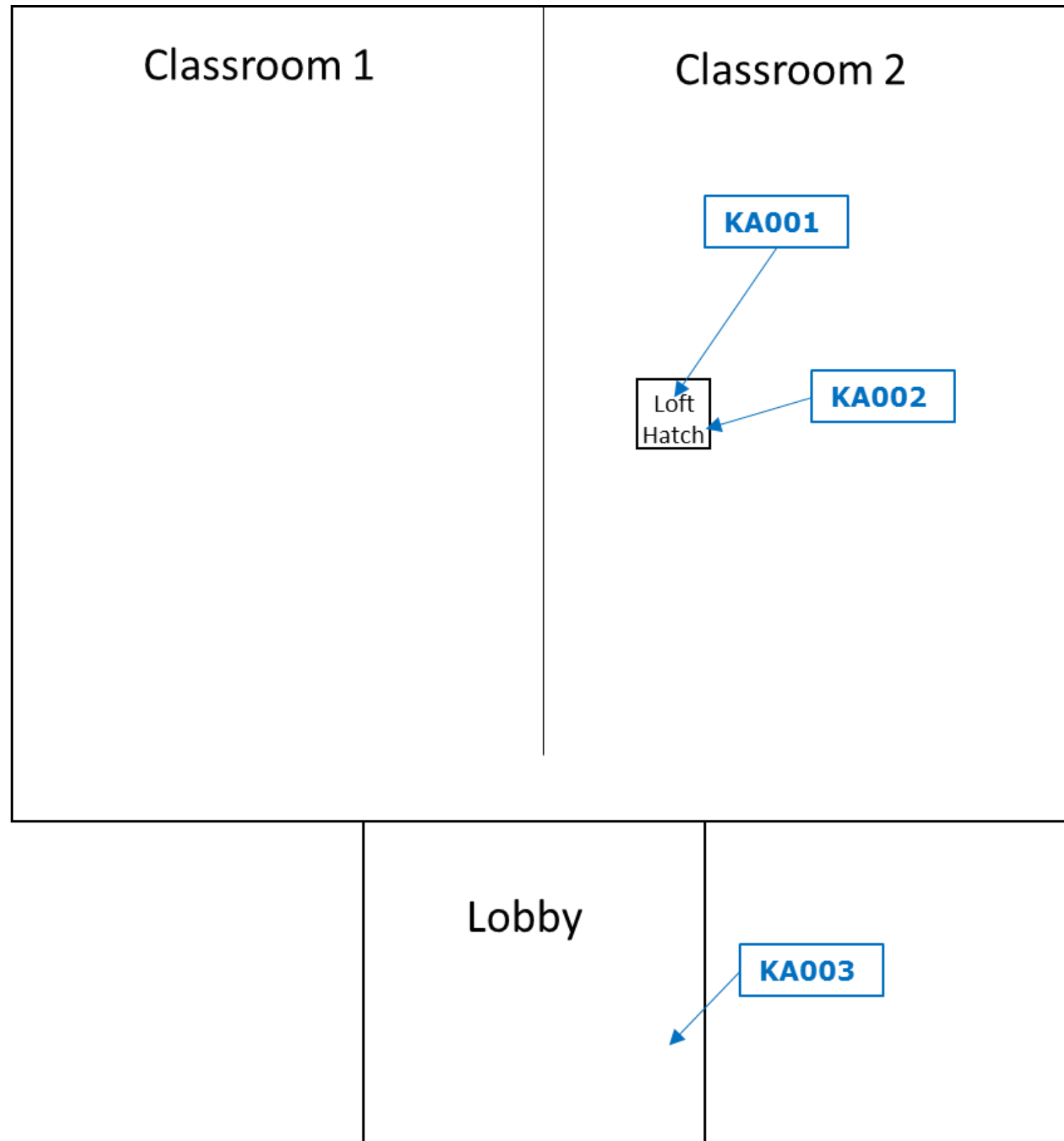
Sample Ref	Description	Location & Extent	Asbestos Type
KA010	FIRST FLOOR MAIN CORRIDOR- BITUMEN ADHESIVE TO PARQUET FLOORING	N/A	NADIS



Sample Ref	Description	Location & Extent	Asbestos Type
Presumed No access	MEM Fuse Boxes – presumed to contain asbestos flash guards	Various	Chrysotile

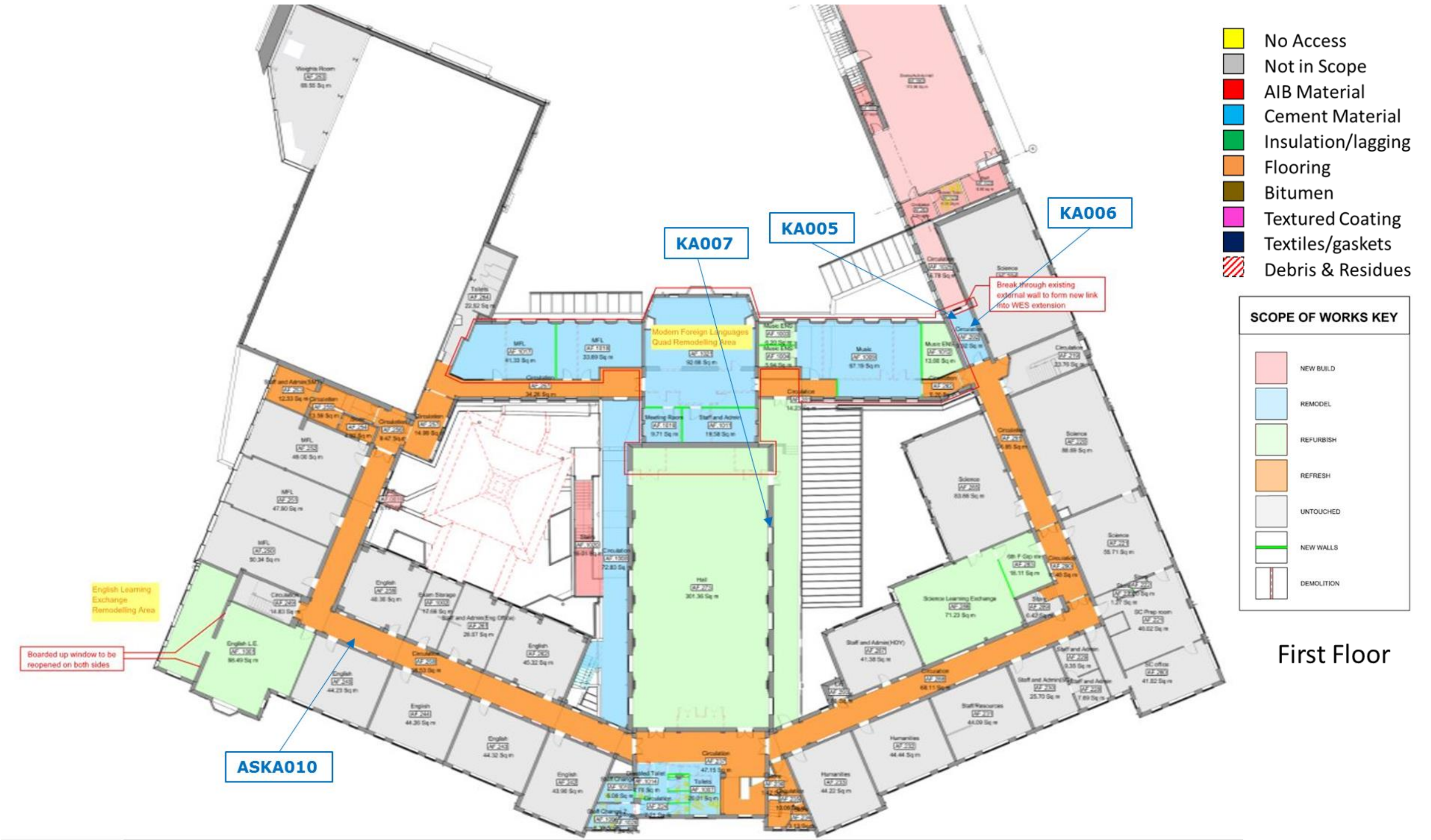


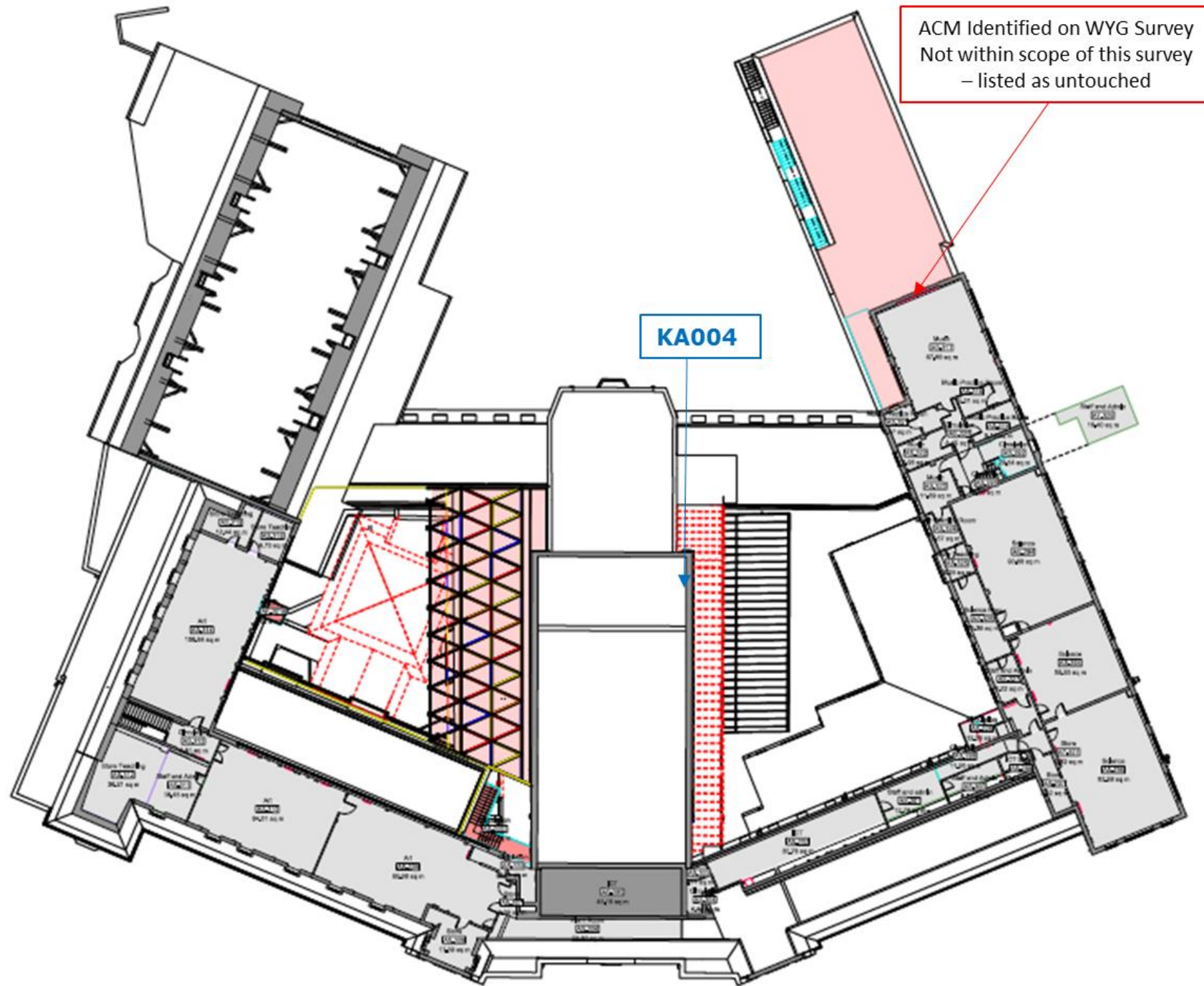
Appendix 3 – Plans



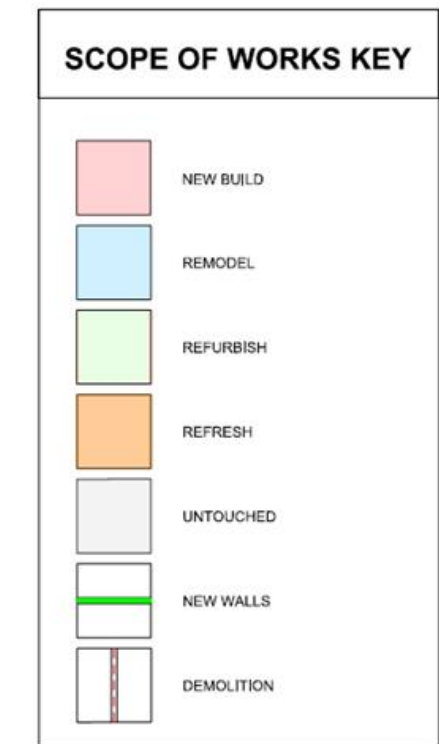
-  No Access
-  Not in Scope
-  AIB Material
-  Cement Material
-  Insulation/lagging
-  Flooring
-  Bitumen
-  Textured Coating
-  Textiles/gaskets
-  Debris & Residues

The Quad
Building





- No Access
- Not in Scope
- AIB Material
- Cement Material
- Insulation/lagging
- Flooring
- Bitumen
- Textured Coating
- Textiles/gaskets
- Debris & Residues



Second Floor

Omega Environmental Services Ltd

Omega Environmental Services have provided a full range of asbestos management services to a wide range of clients including local authorities, hospital trusts and large commercial businesses. A summary of the asbestos related services we are able to offer include the following:

- Management asbestos surveys
- Refurbishment & demolition asbestos surveys
- Preparation of Asbestos Management Plans
- Labelling programmes
- Cost-effective remedial advice
- Preparation of removal specifications
- Licensed asbestos removal
- Assessment and critical evaluation of method statements
- Evaluation & selection of UKAS accredited laboratories for air monitoring during asbestos removal projects
- Annual re-inspection of ACMs to update the asbestos register

If you would like any further information regarding your survey, the implementation of a suitable management plan, or any other asbestos-related issue, please do not hesitate to contact us.