The University of Manchester

Network Transformation Project (WLAN)

Beyer Building Predictive

Installation Pack

Prepared by

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Document Version

Date	*Name*	*Reason*	*Date*
Draft 0.1	Benjamin Bedford	Report Template Created	28/06/2019
Issue 0.1	Lee Wilkinson	Report Created	15/08/2019
Issue 0.2	Shelley Horan	Amendments as per P Hopper	05/07/2023
Issue 0.3	Paul Hopper	Amendments as LBC comments	21/08/2023

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1 Overview

1.1 AP Name Key

This document presents the final position of all APs within this location following a detailed survey.

AP naming convention:

New or refreshed APs will be named using the following format

FXX-T-M(A)

Where:

- F = Floor Number
- XX = AP Number
- T = AP Type
  - H = AP-535
  - L = AP-515
  - B = AP-303
- M = Mount Type
  - C = Ceiling or other horizontal mounting e.g. cable tray
  - W= Wall
  - O = Oberon Bracket
- (A) = Action - AP locations
  - R = Refresh
  - M = Move
  - N = New

So, for example, a ceiling mount AP-535, which is the first AP on floor 4 and is to be moved from an existing wall mount location, would be named:

401-H-C(M)

Other AP labels

(D) = Decommission AP location

There may be a requirement to fully decommission an AP position within the site. These AP locations have been marked with a (D). This AP position is no longer required.

(K) = Keep AP location and leave AP (AP does not need refreshing\replacing)

These APs are already of a minimum standard and do not need any action.

Cabinet and comms rooms locations that were identified during the survey are marked on the floorplan with red hatching.

1.2 WLAN AP Overview

Below highlights the total AP(s) following refresh and installation activity (Total APs) across each floor.

The New AP Hardware section highlights the number of APs required per model that you will require*.

Level	(M)	(N)	(D)	Total	New AP Hardware		
					Aruba 515	Aruba 535	Aruba 303
Beyer Building - Level -10 - Basement Floor	0	3	0	3	3	0	**0**
Beyer Building - Level -05 - Basement Floor Mezzanine	0	2	0	2	2	0	**0**
Beyer Building - Level 00 - Ground Floor	0	1	0	1	1	0	**0**
Beyer Building - Level 05 - Ground Floor Mezzanine	0	1	0	1	1	0	**0**
Beyer Building - Level 10 - First Floor	0	4	0	4	4	0	**0**
Beyer Building - Level 20 - Second Floor	0	1	0	1	1	0	**0**
Beyer Building - Level 30 - Third Floor	1	3	0	4	3	0	**0**
Beyer Building - Level 40 - Fourth Floor	1	3	0	4	2	1	**0**
Beyer Building - Level 45 - Fourth Floor Mezzanine	0	1	1	2	0	1	**0**
Beyer Building - Level 50 - Fifth Floor	0	2	0	2	2	0	**0**
Total	**2**	**21**	**1**	**24**	**19**	**2**	**0**

The total new AP Hardware may not match the total numbers under each heading (R,K,D,M,N). Do not worry, the combined total 'New AP Hardware' will match the combined total of R,M,N as this represents the new APs to be installed.

Table Key:

R= APs that require replacement in their current position

K = APs that are to be left. No work is required to these APs

D = APs that require decommissioning. The AP location is no longer required

M = APs that need to be moved from existing location to a new location

N = Brand new AP location

1.3 Installation Guidance Notes (Please Read)

1) **Please** *install APs whether refreshed, moved or new, as per the floor diagrams within this pack. To support the location of AP point, photos will be presented in this pack after each floor diagram. Please note: where access was not granted, photos are unavailable to aid the installation).*

2) **Where AP locations are marked as (D) 'decommission'** *please ensure you remove this AP.*

3) **The plotted recommended AP locations** *on each floor diagram* **are the desired install location**. *Should the direct* **location not be available due to restrictions**, *please advise the project team immediately.*

4) **The APs should** *be installed/mounted as per the naming convention on page 4.*

5) Each data point at the AP *is to be* **labelled** *with the patching details as to the terminated cabling to the Comms room patch panel and* **recorded on the floor plan.**

6) The additional **AP stickers** *that contain the Serial number, Mac address and barcode etc are* **to be attached to the floor plan and with a clear line pointing to the AP location installed to**. *This enables us to identify where each actual AP is once you have installed it.*

7) **If the AP is marked to be moved**, *please where possible re-use any existing cabling should it be deemed acceptable to re-use (refer to EPM PM19). There will be occasions where a new cable(s) will need to be run.*

8) Please ensure you complete this document fully **to enable sign off of the site.**

9) Please refer to EPM PM19 for cabling policy and procedures.

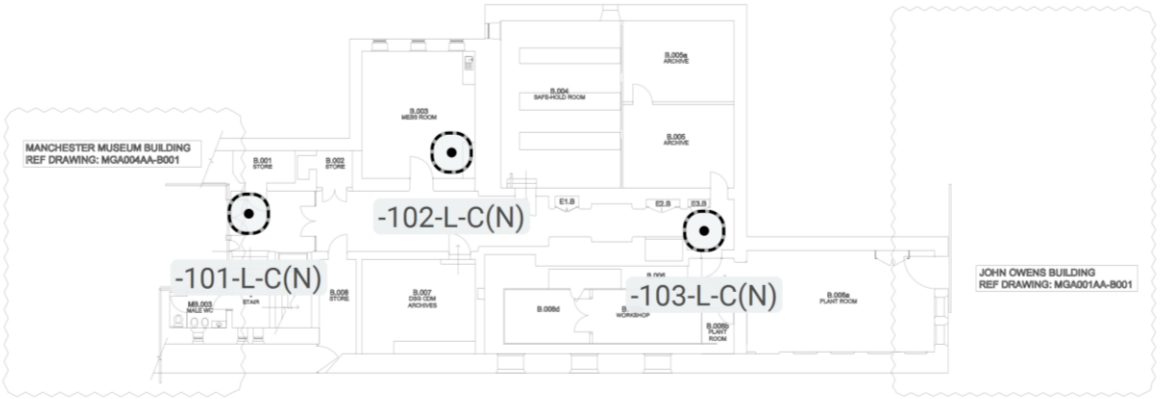
10) There may be AP locations that require installing outside of EPM PM19 procedures. *The photos that are provided for the install will correctly identify the location that has been approved for install.*

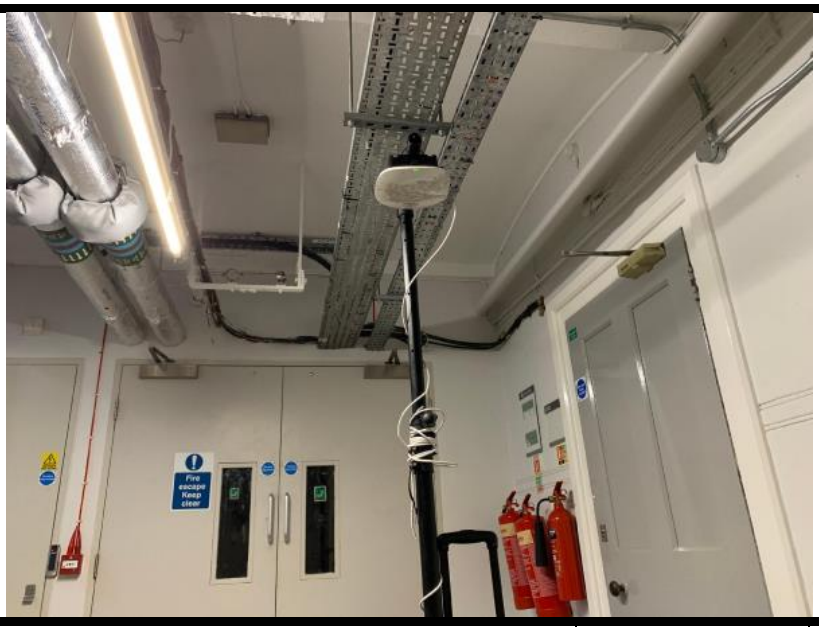
Questions should be referred to the project team if not sure.

NOTE: *When carrying out a* **MOVE AP** *task, the original AP location will be within a 3-meter radius. Any queries in relation to a MOVE AP, please contact the project team.*

2 AP Locations

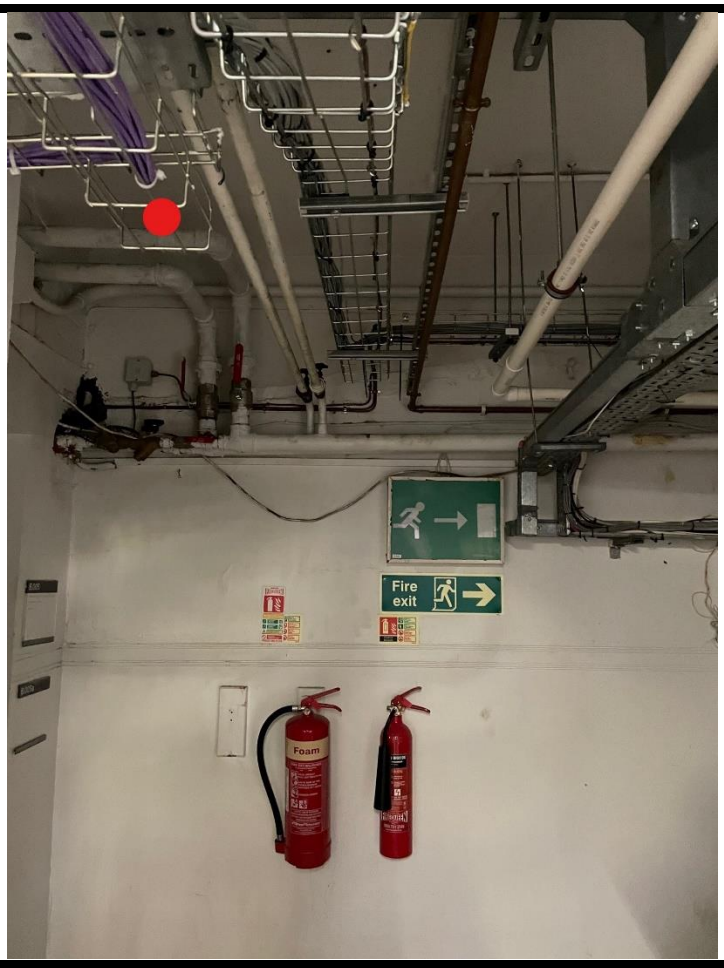
2.1 Beyer Building - Level -10 - Basement Floor





AP Name	Mounting	Location	Antenna Type
-101-L-C(N)		Beyer Building - Level -10 - Basement Floor	Internal

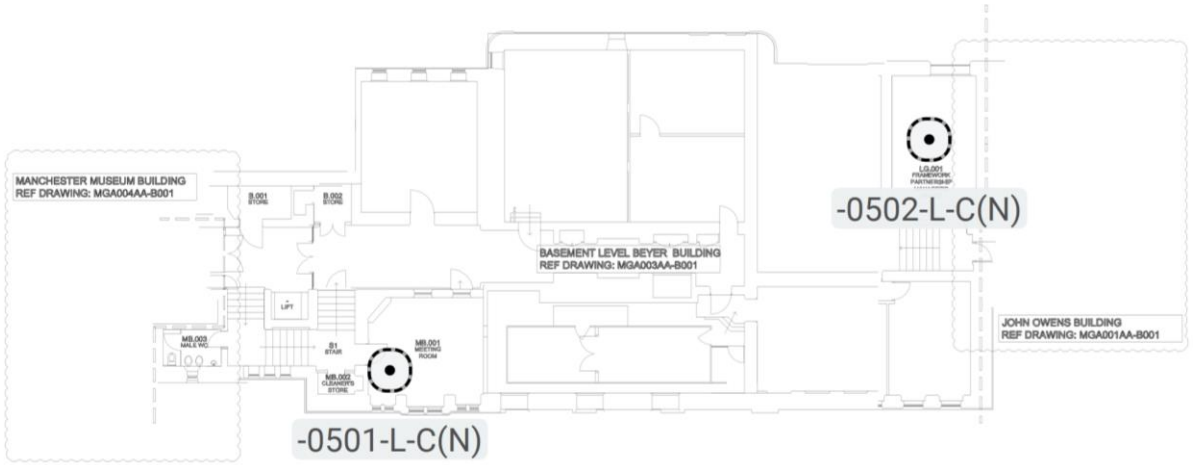
AP Name	Mounting	Location	Antenna Type
-102-L-C(N)		Beyer Building - Level -10 - Basement Floor	Internal



AP Name	Mounting	Location	Antenna Type
-103-L-C(N)		Beyer Building - Level -10 - Basement Floor	Internal

3 AP Locations

3.1 Beyer Building - Level -05 - Basement Floor Mezzanine

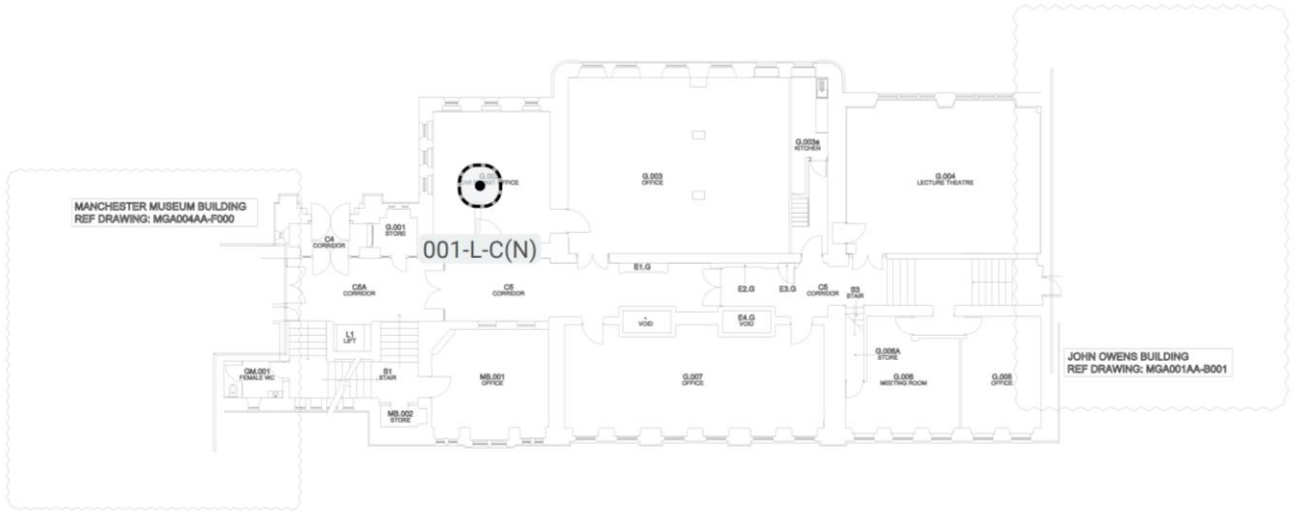


AP Name	Mounting	Location	Antenna Type
-0501-L-O(N)		Beyer Building - Level -05 - Basement Floor Mezzanine	Internal

AP Name	Mounting	Location	Antenna Type
-0502-L-O(N)		Beyer Building - Level -05 - Basement Floor Mezzanine	Internal

4 AP Locations

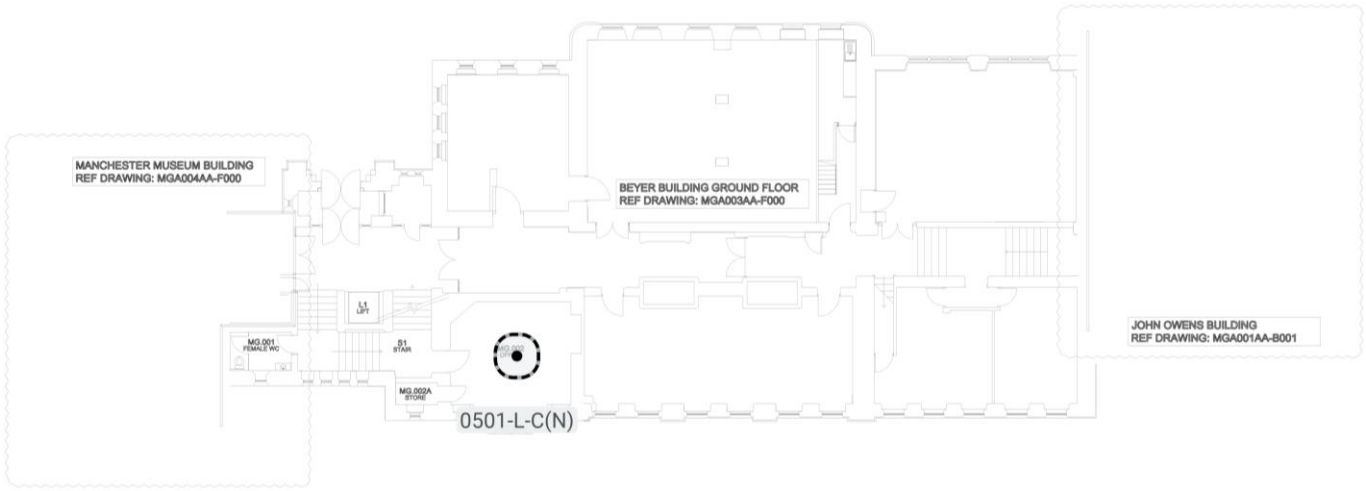
4.1 Beyer Building - Level 00 - Ground Floor



AP Name	Mounting	Location	Antenna Type
001-L-C(N)		Beyer Building - Level 00 - Ground Floor	Internal

5 AP Locations

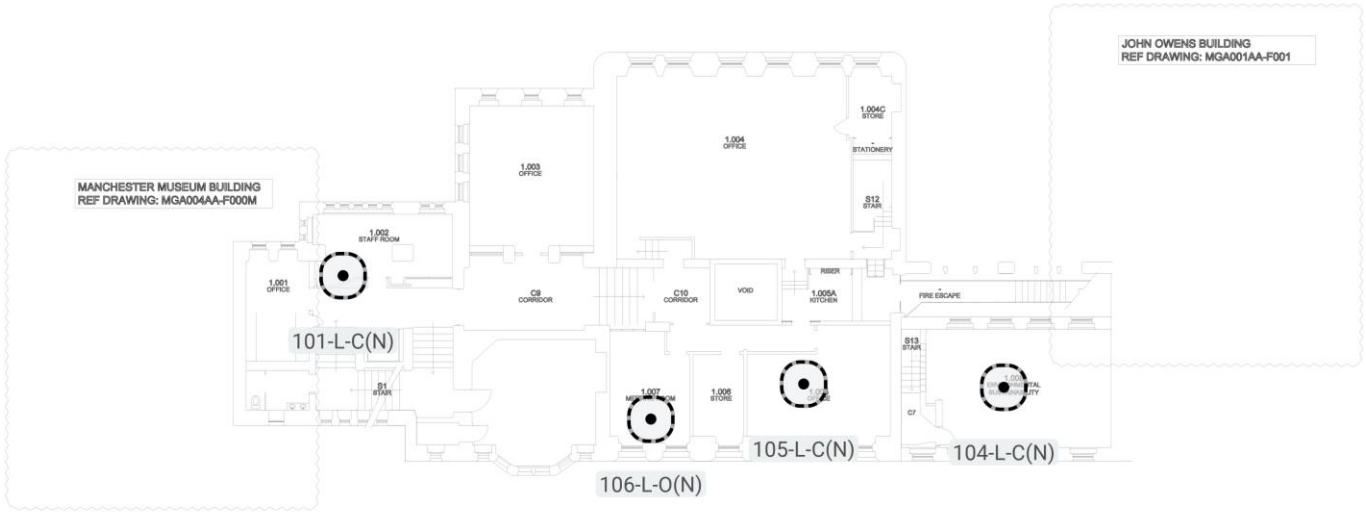
5.1 Beyer Building - Level 05 - Ground Floor Mezzanine



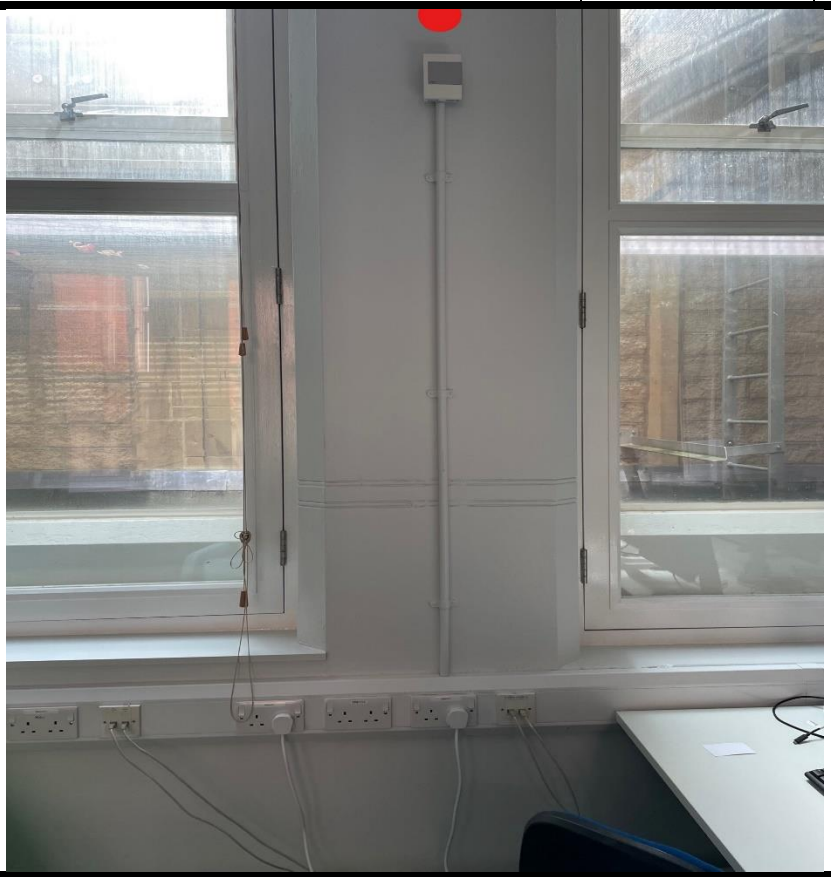
AP Name	Mounting	Location	Antenna Type
0501-L-O(N)		Beyer Building - Level 05 - Ground Floor Mezzanine	Internal

6 AP Locations

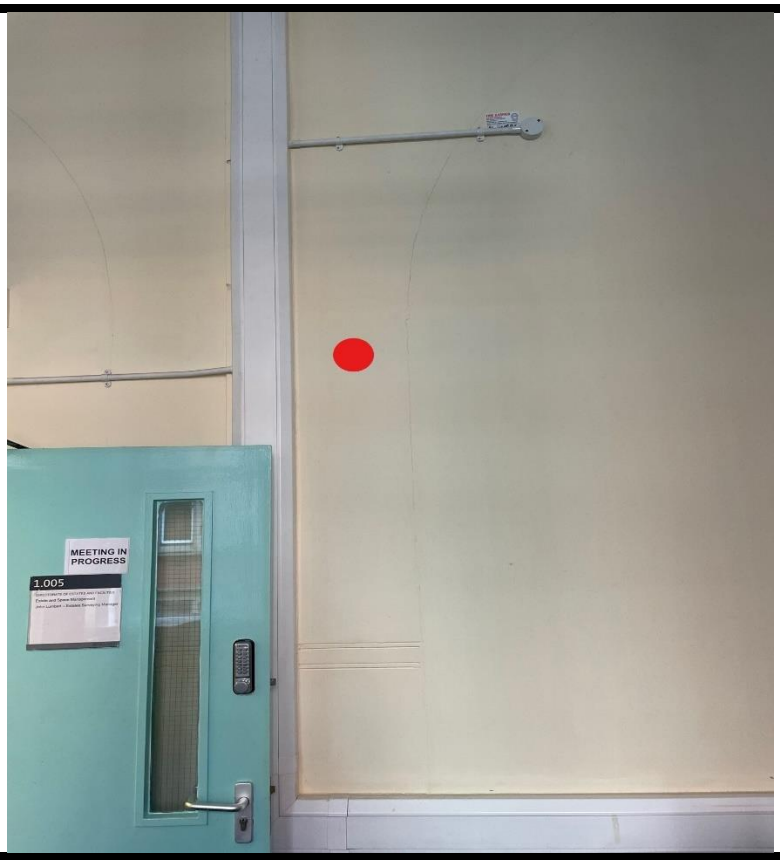
6.1 Beyer Building - Level 10 - First Floor



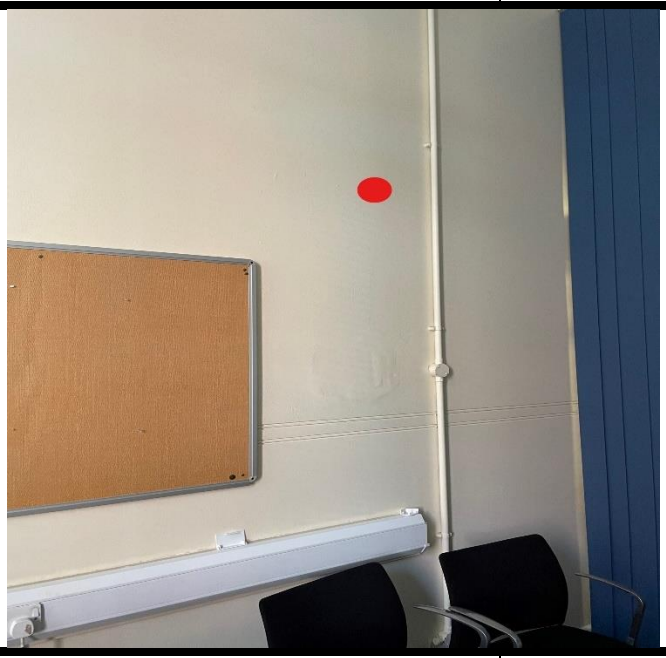
AP Name	Mounting	Location	Antenna Type
101-L-C(N)		Beyer Building - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
104-L-O(N)		Beyer Building - Level 10 - First Floor	Internal



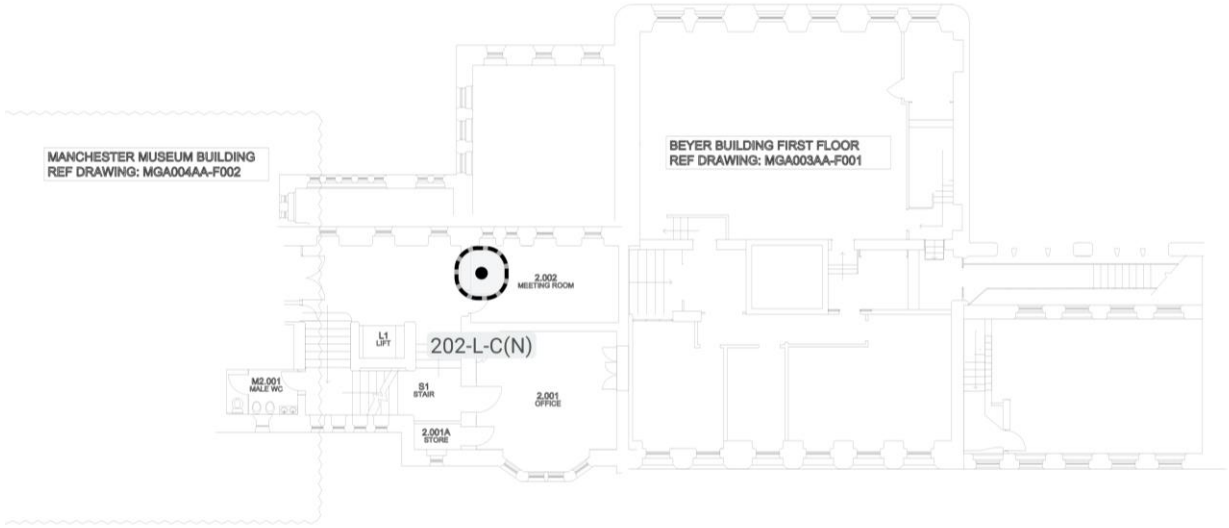
AP Name	Mounting	Location	Antenna Type
105-L-O(N)		Beyer Building - Level 10 - First Floor	Internal

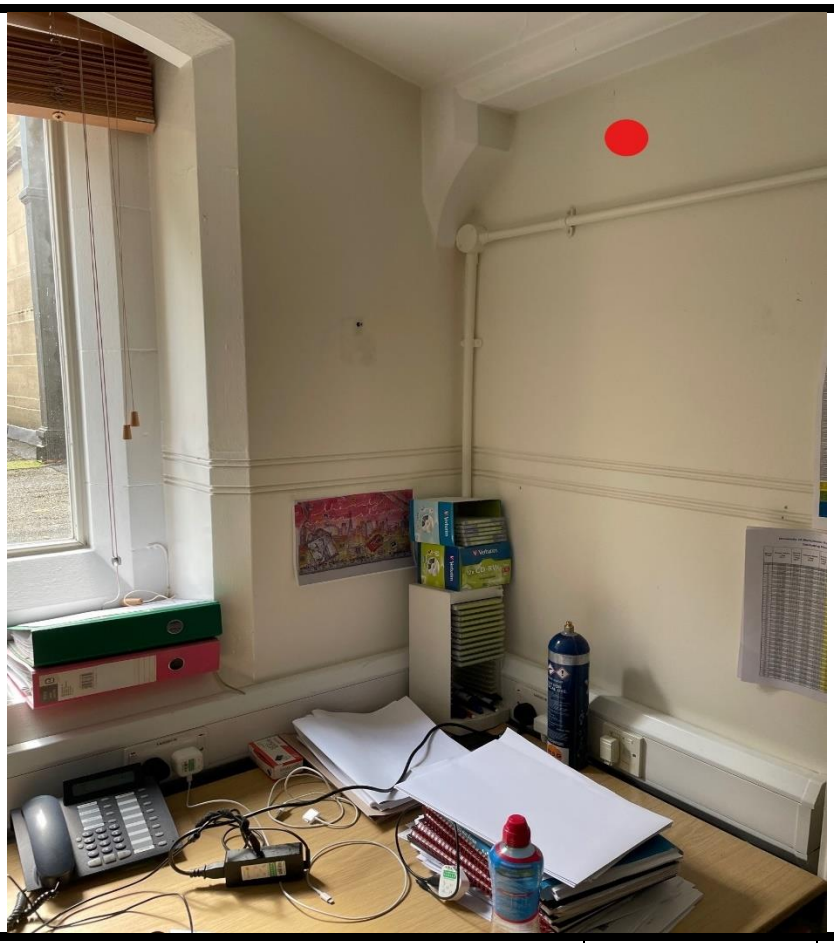


AP Name	Mounting	Location	Antenna Type
106-L-O(N)		Beyer Building - Level 10 - First Floor	Internal

7 AP Locations

7.1 Beyer Building - Level 20 - Second Floor

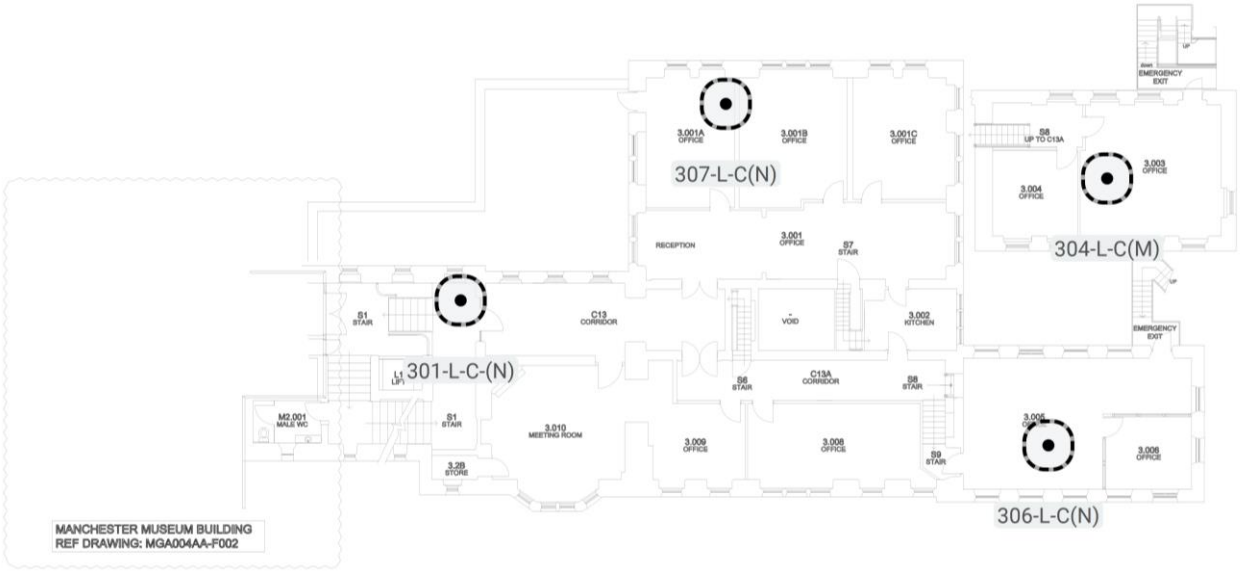




AP Name	Mounting	Location	Antenna Type
202-L-O(N)		Beyer Building - Level 20 - Second Floor	Internal

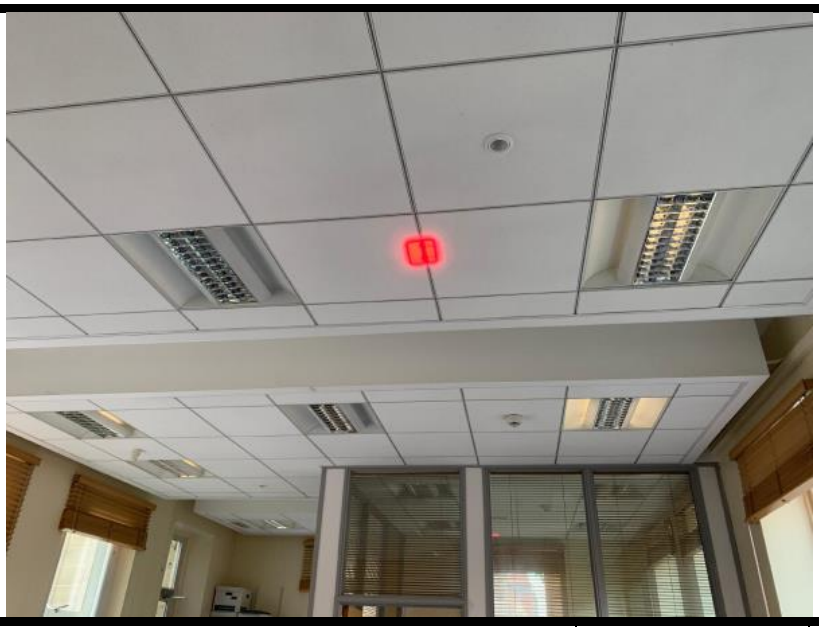
8 AP Locations

8.1 Beyer Building - Level 30 - Third Floor



AP Name	Mounting	Location	Antenna Type
301-L-O(N)		Beyer Building - Level 30 - Third Floor	Internal

AP Name	Mounting	Location	Antenna Type
304-L-C(M)	Existing location New Location	Beyer Building - Level 30 - Third Floor	Internal

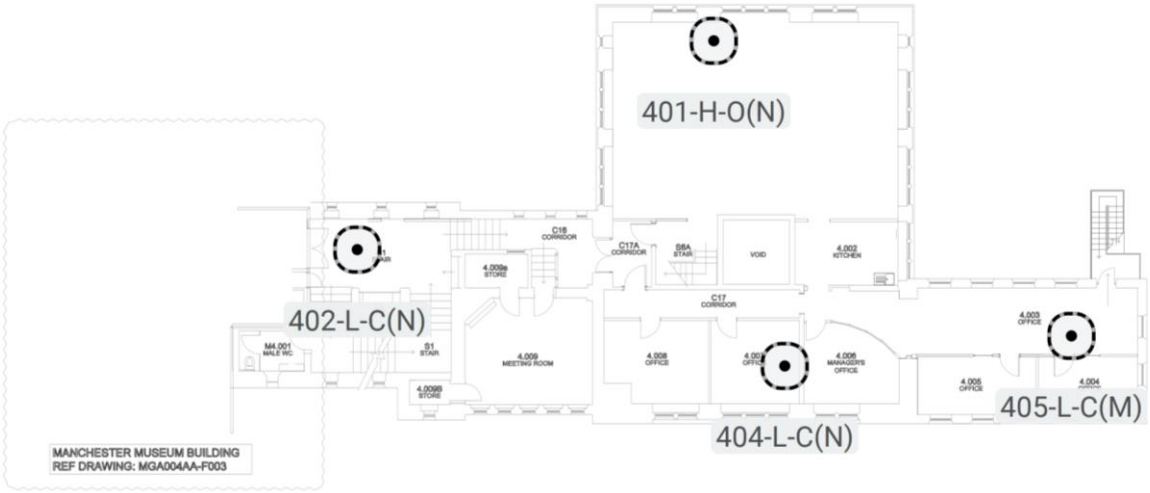


AP Name	Mounting	Location	Antenna Type
306-L-C(N)		Beyer Building - Level 30 - Third Floor	Internal

AP Name	Mounting	Location	Antenna Type
307-L-C(N)		Beyer Building - Level 30 - Third Floor	Internal

9 AP Locations

9.1 Beyer Building - Level 40 - Fourth Floor



AP Name	Mounting	Location	Antenna Type
401-H-O(N)		Beyer Building - Level 40 - Fourth Floor	Internal

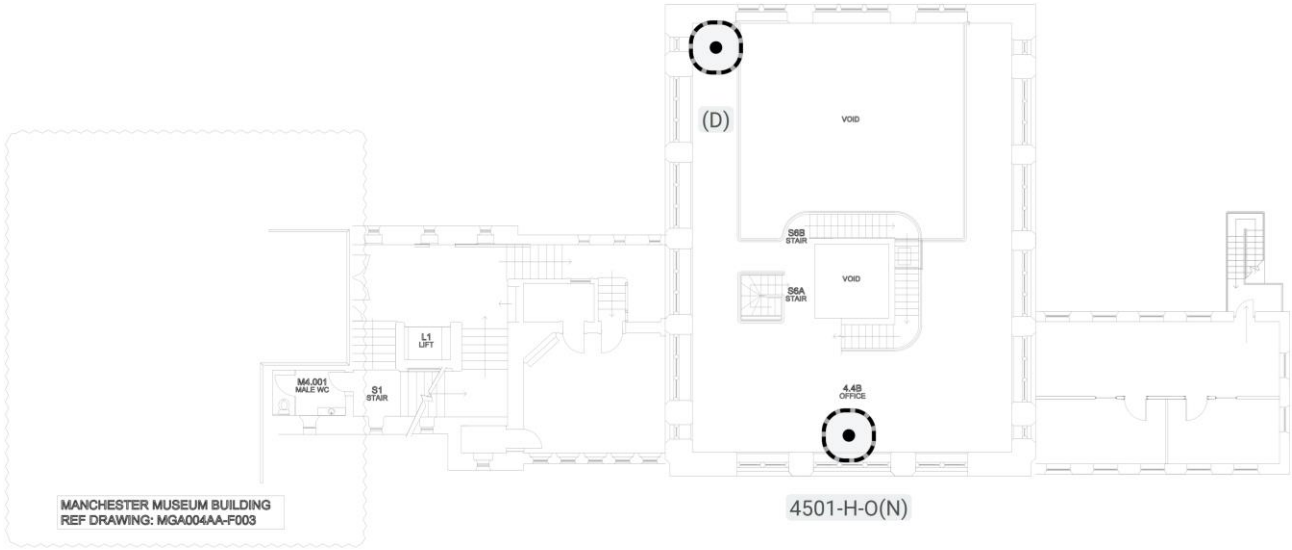
AP Name	Mounting	Location	Antenna Type
402-L-C(N)	AP is to be mounted near to existing services.	Beyer Building - Level 40 - Fourth Floor	Internal

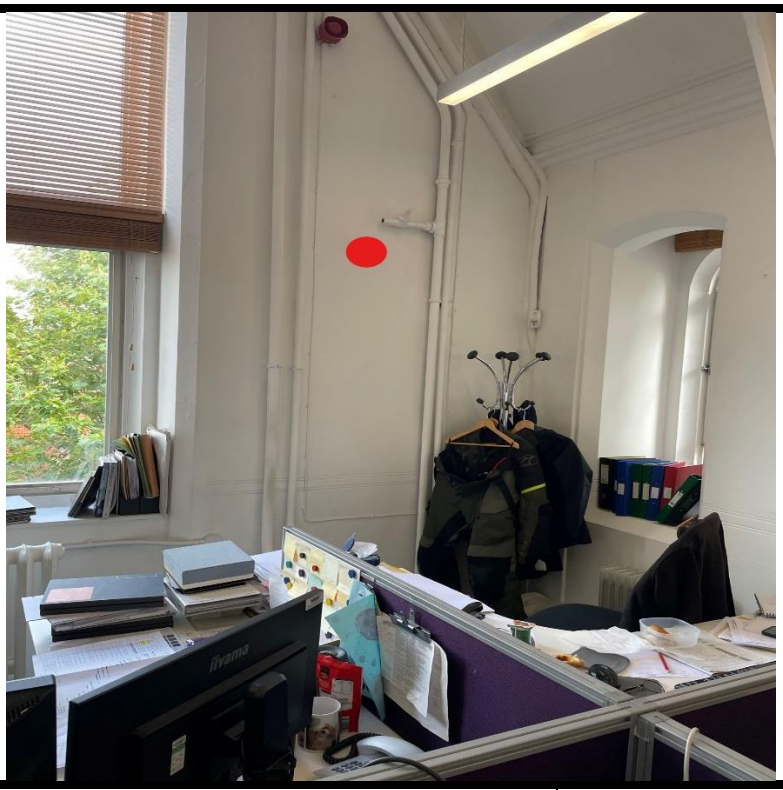
AP Name	Mounting	Location	Antenna Type
404-L-C(N)		Beyer Building - Level 40 - Fourth Floor	Internal

AP Name	Mounting	Location	Antenna Type
405-L-C(M)	AP to be ceiling mounted near to existing services.	Beyer Building - Level 40 - Fourth Floor	Internal

10 AP Locations

10.1 Beyer Building - Level 45 - Fourth Floor Mezzanine

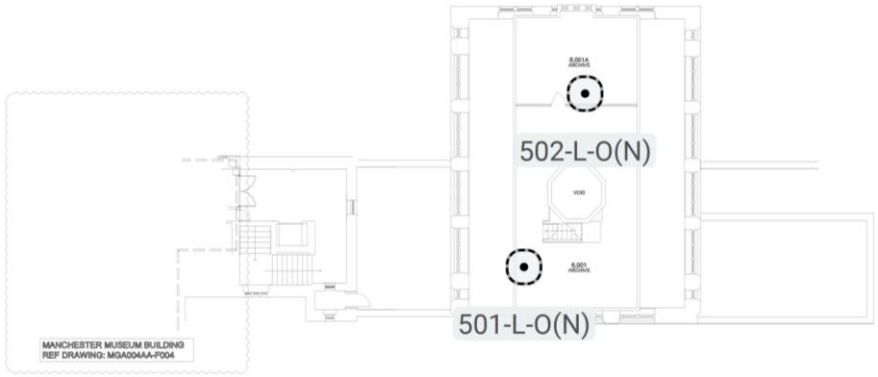




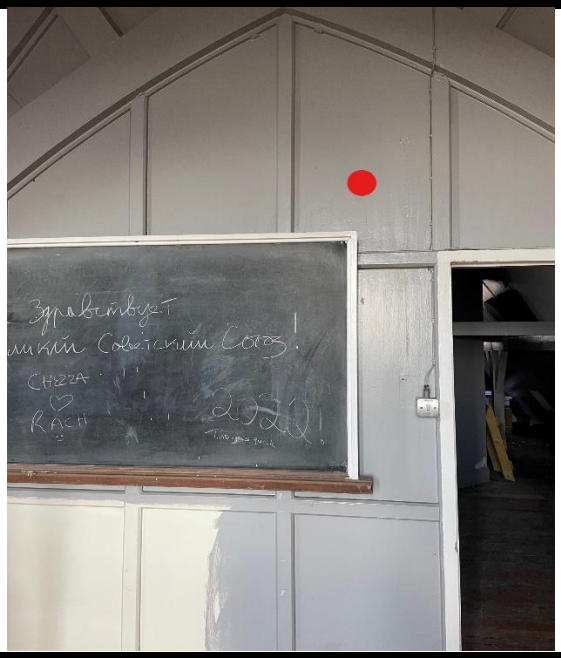
AP Name	Mounting	Location	Antenna Type
4501-H-O(N)		Beyer Building - Level 45 - Fourth Floor Mezzanine	Internal

11 AP Locations

11.1 Beyer Building - Level 50 - Fifth Floor



AP Name	Mounting	Location	Antenna Type
501-L-O(N)	This install to be reviewed by UoM as the space is currently not utilised and would need significant refurb before it could be.	Beyer Building - Level 50 - Fifth Floor	Internal



AP Name	Mounting	Location	Antenna Type
502-L-O(N)	This install to be reviewed by UoM as the space is currently not utilised and would need significant refurb before it could be.	Beyer Building - Level 50 - Fifth Floor	Internal