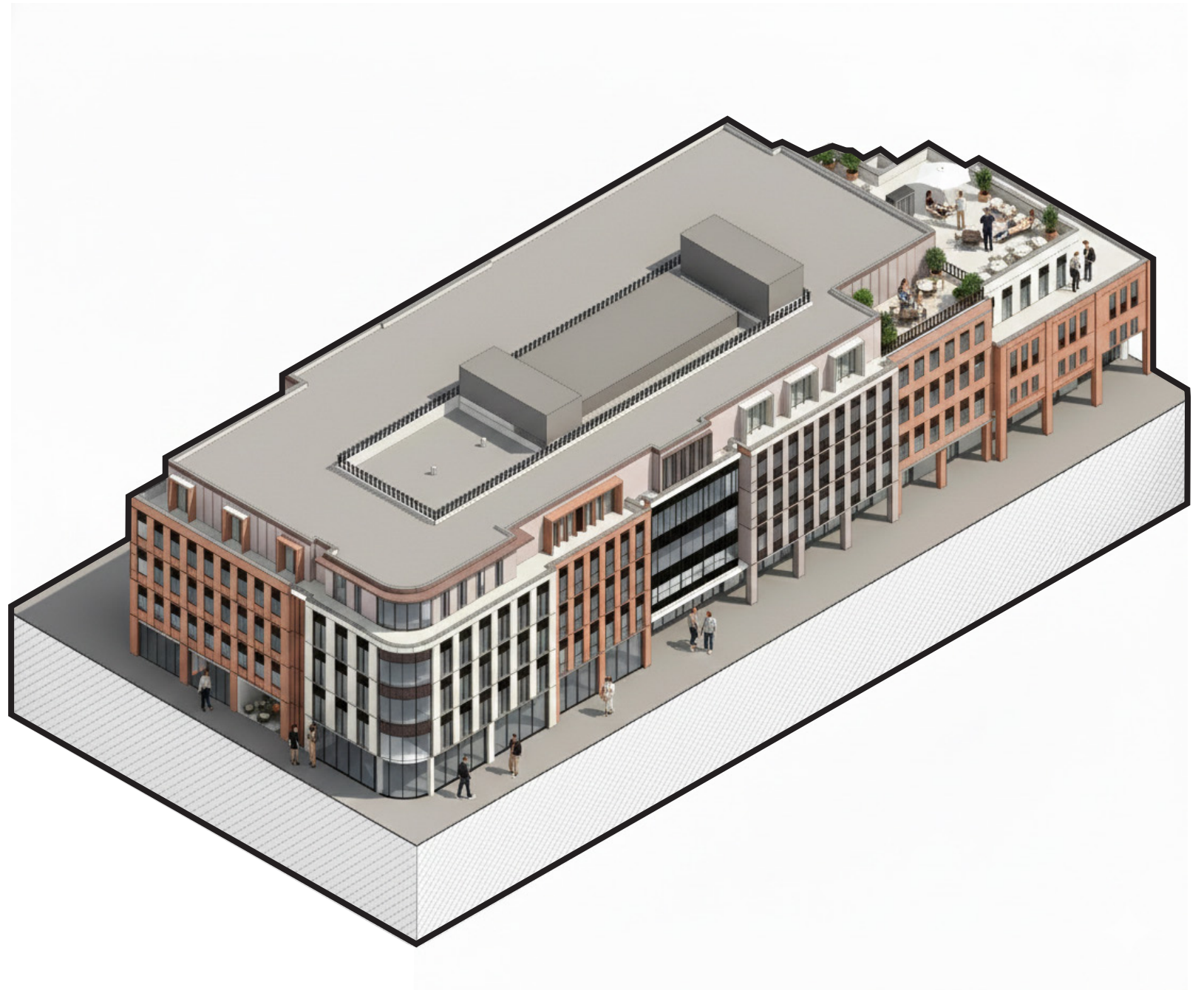


Technical Healthcare Portfolio.

Revit | RIBA Stage 3-4 Delivery
Healthcare, Cleanrooms, Controlled Environments

Aditya Billava | Architectural Designer



2022-2025

contents.

PROJECT STAGE DRAWINGS

Aseptic facility:

- GA Setting out Plan
- Fire Strategy Plan
- Typical Cleanroom Details
- Building Envelope Details

Biotech R&D Lab:

- Acoustic Plan

TENDER STAGE PROPOSAL DOCUMENT IMAGES

- Health and wellbeing centre plus Urgent treatment care
- Biotech R&D Lab
- Hybrid Theatre Facility

intro.

The following pages present selected professional projects completed during my employment as an **Architectural Designer at Merit**.

During my time at Merit, I initially worked within the **tenders team**, gaining experience in early-stage design, bid documentation, and project visualisation. I later transitioned to the **projects team**, where I contributed to detailed design development and delivery.

Due to confidentiality and non-disclosure agreements, certain project details and client names have been omitted. All work shown reflects my personal contributions within my professional capacity.

what i do.

- **Technical Delivery (Stage 3–4)**

Production of coordinated, construction-ready Revit documentation within compliance-driven healthcare environments.

- **Healthcare & Laboratory Design**

Experience working on clinical, aseptic, biotech, and controlled environments where workflow, regulation, and performance requirements shape spatial planning.

- **Fire Strategy Integration**

Development and coordination of fire strategy layouts and compartmentation drawings in collaboration with fire engineers and project teams.

- **Healthcare/ Cleanroom Detailing**

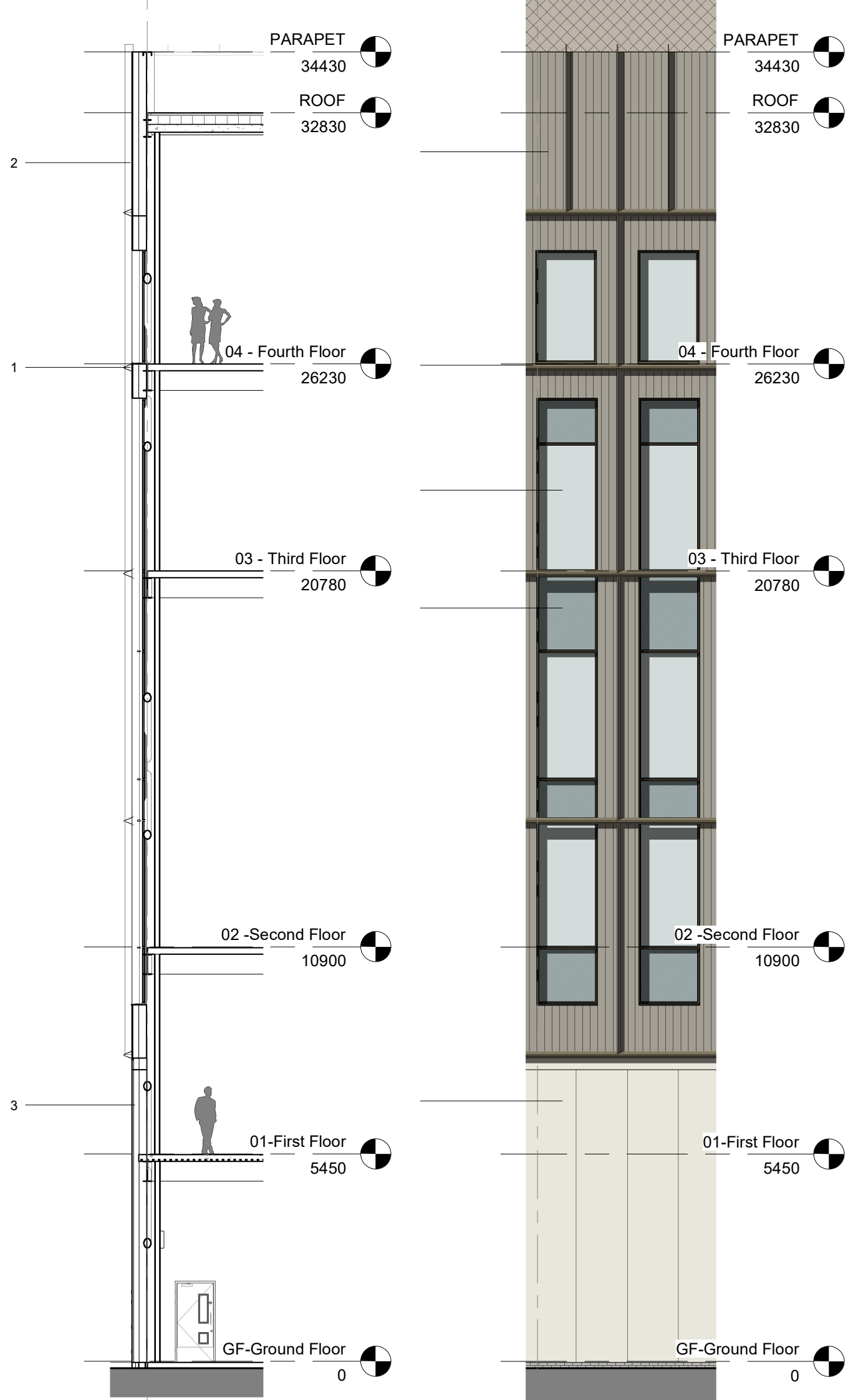
Technical design of wall build-ups, junctions, breakout panels, and envelope interfaces for cleanroom and controlled spaces.

- **Revit Documentation & Drawing Packages**

Preparation of GA plans, setting-out drawings, detailed packages, and coordinated information across multidisciplinary teams.

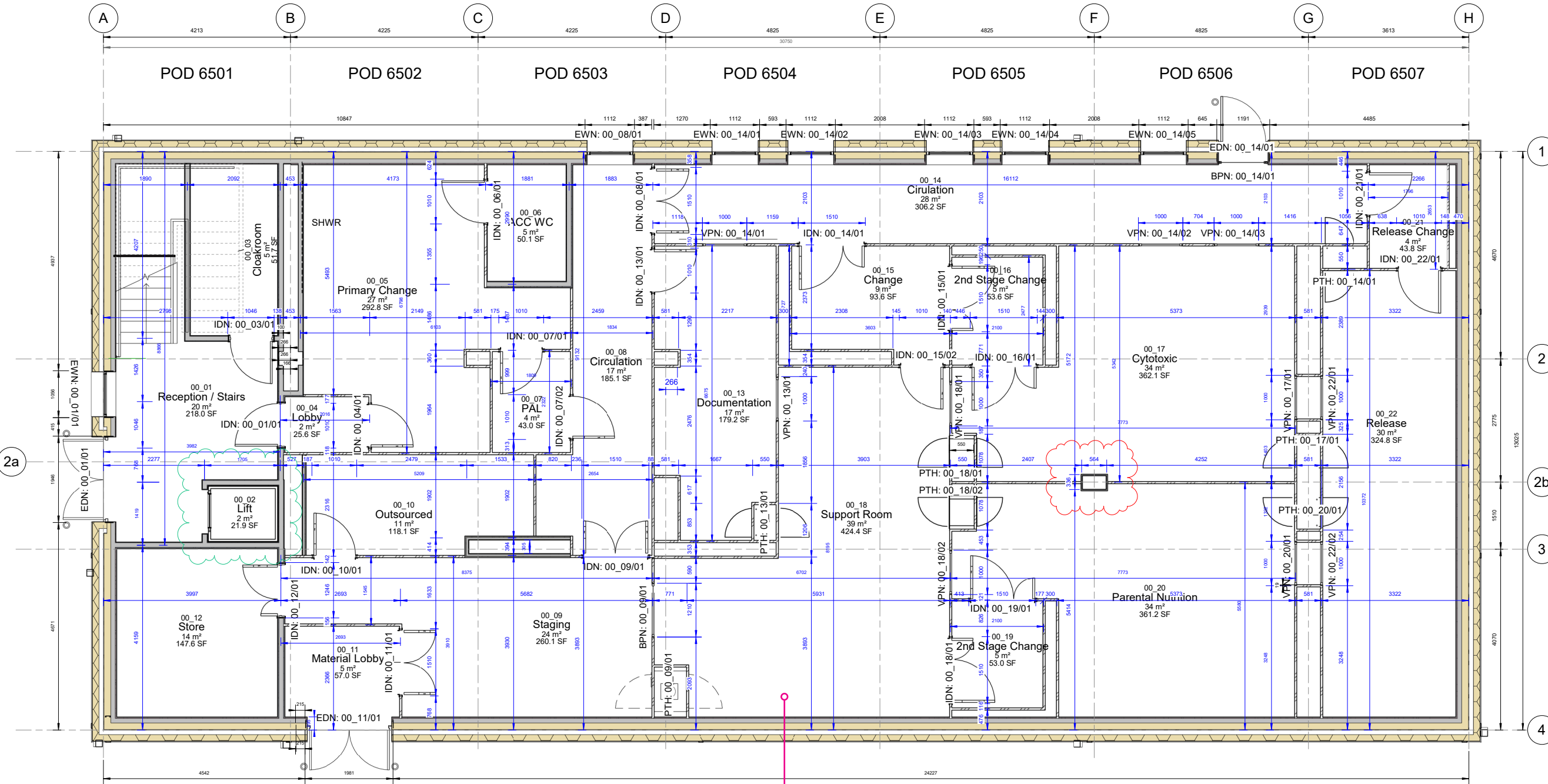
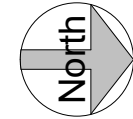
Project Stage

Selected Works.



DRAWING ANNOTATIONS
DRAWING REVISIONS
GENERAL NOTE & DIMENSIONS
IN ABEYANCE

Work In Progress.
Subject to Fire Strategy & Manufacturer Specification.



GA revised following M&E
coordination review

PROJECT TYPE: ASEPTIC FACILITY
RIBA Stage 3–4 Delivery

MY ROLE:

- Developed GA layouts in Revit
- Produced fire strategy drawings
- Coordinated envelope + cleanroom details
- Integrated M&E and fire engineer comments

SETTING OUT LEGEND	
	Dimensions in BLUE are from wall stud centrelines to grid lines or to wall stud centrelines.
	Dimensions in BLACK are structural measurements from SFS to SFS.
	Dimensions in RED highlight coordination issues or measurements in Abeyance.
XXX: XX_XX/0X references door, window and louvre numbers to be read in conjunction with the relevant schedules.	

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5.Subcontractor surveys (e.g. for steelwork) override indicative dimensions and must ensure accurate fit and coordination.

6.The Principal Contractor is responsible for all temporary works and must appoint a competent Temporary Works Coordinator (TWC) in line with BS 5975.

7.Contractor-designed elements affecting Merit's scope must be submitted to the Engineer a minimum of 10 working days before fabrication. Merit's review does not transfer design responsibility.

8.Proprietary products shown are based on supplier data. Merit accepts no liability for their performance. Installation must follow manufacturer instructions.

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11. Only the latest revision of each drawing is to be used. Superseded versions must be removed from circulation.

P22	10.09.25	Updated as per Lift Manufacturer Specification	MP	AB
P21	04.09.25	Revised structural openings	AM	AB
P20	01.09.25	Revised as per acoustic strategy.	AB	MM
P19	07.08.25	External door tags added.	AB	MM
P18	06.08.25	Outsourced G-CON wall moved as per C-Steel design	AB	MM
P17	01.08.25	Stair setting out revised to suit structural design.	AB	MM
P16	01.08.25	Reconfiguration of Release Change as per client comment.	AB	MM
P15	28.07.25	External wall build up revised and checked against SFS and G-CON.	AB	MM
P14	25.07.25	Revised as per design development.	AB	MM
P13	27.06.25	Revised as per client comment.	AB	MM
P12	29.05.25	SFS design updated as per M&E & structural comment	AB	MM
P11	13.05.25	Updated as per client comment.	AB	MM
P10	28.04.25	Store added to staging area as per fire strategy comment.	AB	MM
P09	14.04.25	Revised sheet number. Proposed access lock fire door to replace removable panel.	AB	MM
P08	20.03.25	Revised as per client meeting.	AB	MM
P07	17.03.25	SHWR to replace WC. Reconfiguration Material Lobby as per client comment. 2nd VP to Documentation. External windows updated as per GMP comment.	AB	MM
P06	13.03.25	Revised as per QA comment.	AB	MM
P05	11.03.25	WC moved from POD wall.	AB	MM
P04	10.03.25	SHWR & Door added to circulation.	AB	MM
P03	10.03.25	LLE revised as per M&E comment. Prechange/isolators revised & windows added into release as per client's comments.	AB	MM
P02	03.03.25	PN & CYTO swapped. Docu PTH moved. ACC SHWR added as per client's requirement.	AB	MM
P01	04.06.25	PRELIMINARY	RSA	MM
REV	DATE	DESCRIPTION	BY	APP

S3 REVIEW & COMMENT



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Client:

Drawing Title:
Proposed Ground Setting Out Plan
General Arrangement

Project Name:

Drawn By: AB
Drawn Date: 20.03.2025
Checked By: MM
Approved By: MM
Approved Date: 20.03.2025

Drawing No.: 10752-MRT-ZZ-GF-DR-A-3001
Rev: P22

Drawing Standards:
Approved Document B

Industrial Normal Hazard Max Travel Distance
Single Direction: 22 (25m max)
Multi Direction: 29m (45m max)

Building occupancy: 30
No. escape routes: 3

L1 AFD required in accordance with BS
5839-1 as per Fire Engineer comment.

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4. Dimensions must not be scaled from this drawing,
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departments).

5. Dimensions marked 'dimension to be site checked' are
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construction proceeds.

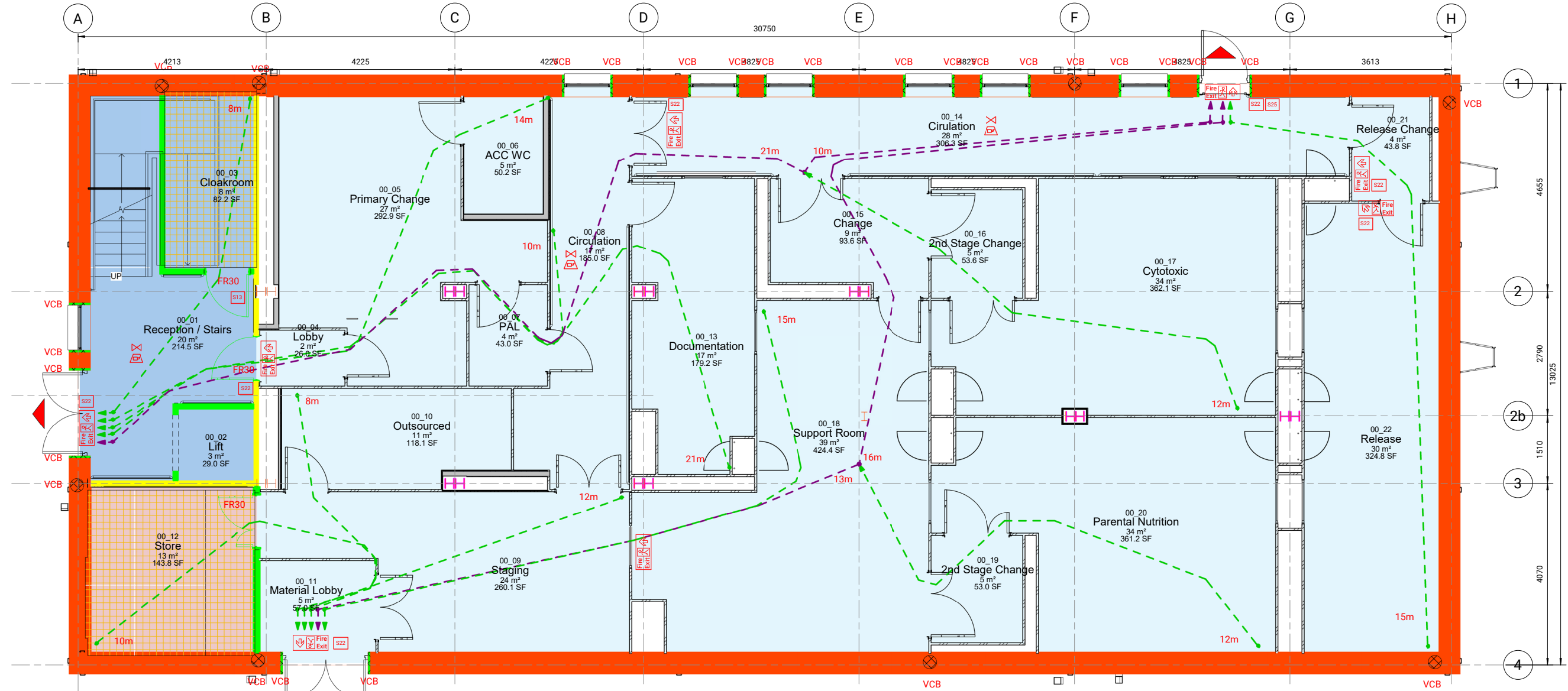
6. Subcontractor surveys, such as for the purposes of
steelwork installation, take precedence over 'site
dimensions' indicated on this drawing. All surveys should
ensure an accurate fit of components.

7. Temporary works associated with the construction of
the project shall be the responsibility of the Principal
Contractor.

8. Where any temporary works or scaffolding are required
the Principal Contractor shall appoint a competent and
suitably experienced Temporary Works Coordinator
(TWC). Refer to BS 5975 for guidance on temporary
works and the role of a TWC.

9. Calculations and drawings of all Contractor designed
structural items associated with Merit's design
responsibilities shall be submitted to the Engineer for
comment at least 10 days prior to manufacture. Any
comments made by Merit do not absolve the Contractor
of their design responsibilities.

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product supplier. All proprietary products must be
installed in accordance with the manufacturer's
requirements.



1 Fire Strategy Site Plan
1 : 50

PROJECT TYPE: ASEPTIC FACILITY
FIRE STRATEGY PLAN

DRAWING ANNOTATIONS

DRAWING REVISIONS

GENERAL NOTE & DIMENSIONS

IN ABEYANCE

Encasement/Painting Strategy Legend

All loadbearing structural frame, beam or column to
achieve minimum FR90 (R).
I Load-bearing columns to be protected with
intumescent coating to achieve the FR90 (R).
Expansion gap to be minimum 50mm around
column, as per manufacturer specification.

Fire Suppression

- Compartment 1
- Compartment 2
- Lift/ Stair Core

Fire compartmentation
coordinated with fire engineer

APPROVED DOCUMENT B FIRE LEGEND

ADB FIRE PROTECTION INFORMATION

The following is the relevant information this document must
resolve as per Building Regulations Approved Document B.

- Escape routes - this should include exit capacity (i.e.
the maximum allowable number of people for each
storey and for the building.)
- Fire resisting construction and location of fire-
separating elements (including cavity barriers in walk-
in spaces).
- Fire doorsets, fire doorsets fitted with a self-closing
device and other doors relevant to the fire safety
strategy, such as doors equipped with relevant
hardware.
- Locations of fire detector heads (e.g. heat and smoke
detectors), manual call points, fire alarm control and
indicating equipment, fire alarm sounders, fire safety
signage, emergency lighting, fire extinguishers, dry or
wet fire mains and other firefighting equipment, and
hydrants outside the building.
- Any sprinkler systems, including isolating valves and
control equipment.
- Any smoke control systems, or ventilation systems with
a smoke control function, including mode of operation
and control systems.
- Any high risk areas (e.g. heating machinery).
- Any power supplies or power generating installations.
- The location of secure information boxes.

Fire strategy drawings shall be read in conjunction with the
Fire Strategy Report and are to be reviewed and approved by
the appointed Fire Engineer and the relevant Building Control
Body.

ESCAPE ROUTES

- Final or Storey Exit
- Emergency Escape Route Single Direction
- Emergency Escape Route Multi Direction

FIRE RESISTING CONSTRUCTION

- Indicates 30 min Fire Resisting Construction
- Indicates 60 min Fire Resisting Construction
- Indicates 90 min Fire Resisting Construction
- Indicates 120 min Fire Resisting Construction
- Cavity Barrier to Provide 30 min Fire Resistance
- CB Indicates 30 min Fire Resisting Construction
- CB Indicates 60 min Fire Resisting Construction
- CB Indicates 90 min Fire Resisting Construction
- CB Indicates 120 min Fire Resisting Construction

FIRE DOORSETS

Intumescent fire/smoke seals and self-closing devices must
comply with EN 13501 for fire classification, ensuring integrity
(E), insulation (I), and smoke control (S) where required. To be
indicated on door schedules.

- VP Vision panels to be provided to certain doors as
indicated on plan.

- FD-SK Indicates Fire Resisting Door with self-closing
device.
- FD-LK Indicates Fire Resisting Door with no self closing
device and "keep locked shut" notice.
- Fire Door FD30
- Fire Door FD60
- Fire Door FD90
- Fire Door FD120

Unless otherwise stated, all specified fire ratings are assumed
to refer to both integrity and insulation performance.

FIRE FIGHTING EQUIPMENT

All fire fighting equipment to be provided and installed by
client's representatives. All subject to their review in
conjunction with the appointed Fire Officer.

- Portable fire extinguisher - Water type
- Portable fire extinguisher - Foam type
- Portable fire extinguisher - Carbon Dioxide type
- Portable fire extinguisher - Multi Purpose Dry

- Fire blanket
- Sand bucket
- Fire safety equipment to be adequately and easily accessible.
Extinguishers must be positioned in prominent locations for
clear visibility and quick access. Compliance with BS
5306-8:2023 is required for the correct placement of fire
extinguishers.

FIRE SAFETY SIGNAGE
Fire safety signs to comply with BS 5499 Graphical symbols and
signs. Location of luminaires to be finalised by M&E drawing.
Emergency exit signage to be either internally illuminated or
illuminated by adjacent emergency fitting.

- Locations for fire alarm call points.
- Area to be lit by emergency lighting (not exact
luminaire point).
- Area to have Fire alarm sounders. Final locations of
alarm sounders to be finalised by specialist sub-
contractor.
- Area to have visible warning beacons. Final locations
to be finalised by specialist sub-contractor.
- "Fire Door - Keep Shut" signs (5mm min' high
lettering)
- "Fire Door - Keep Locked Shut" signs (5mm min' high
lettering)
- "Automatic Fire Door - Keep Clear" signs (5mm min'
high lettering)

- B17 Door To Be Secured Open.(Released on fire alarm)
- B20 "Fire Escape - Keep Clear" signs (5mm min' high
lettering)
- B22 "Fire Exit" sign and running man symbol
- B25 "Push bar to Open" sign - Panic Bar to Fire Exit
doors.
- Fire Alarm Control Panel location. (Any type)

S22 SIGNS viewed Head-On - as illustrated on plan

All signage placement subject to review in on-site visual
inspection by building control officer and fire officer prior to
hand-over and therefore may be subject to change.

- Straight on/straight on & up from here
- Up & right from here
- Right from here
- Down & right from here
- Down from here
- Down & left from here
- Left from here

- Up & left from here
- Up & left from here
- x2 Double sided exit signs
- Fire action procedure notice which deals with
discovery of fire, hearing alarm, evacuation and
roll call

Security and access control requirements to be confirmed
by the client. Locations of fire safety signage and manual
fire alarm call points are subject to client review and formal
approval.

HIGH RISK AREAS

- Fire Hazardous Rooms High Risk
- Fire Hazardous Rooms Low Risk

POWER SUPPLIES & F. SECURE INFORMATION BOXES

Location of sprinklers to be finalised by M&E drawing.

SPRINKLER SYSTEMS

Location of sprinklers to be finalised by M&E drawing.

- Sprinkler Head Up
- Sprinkler Head Down

SMOKE CONTROL SYSTEMS

Location of sprinklers to be finalised by M&E drawing.

- SD Smoke Detector

P08	07.08.25	Revised as per fire engineer comments	AM	AB
P07	22.07.25	Revised as per Centurion comment.	AB	MM
P06	18.07.25	Revised as per design development.	AB	MM
P05	21.05.25	Revised as per Fire Engineer comment.	AB	MM
P04	14.05.25	Revised as per client comment.	AB	MM
P03	29.04.25	Revised as per client comment.	AB	MM
P02	17.04.25	Revised sheet number. Updated as per fire engineer comment.	AB	MM
P01	13.03.25	PRELIMINARY	AB	MM
REV	DATE	DESCRIPTION	BY	APP

S0 PRELIMINARY

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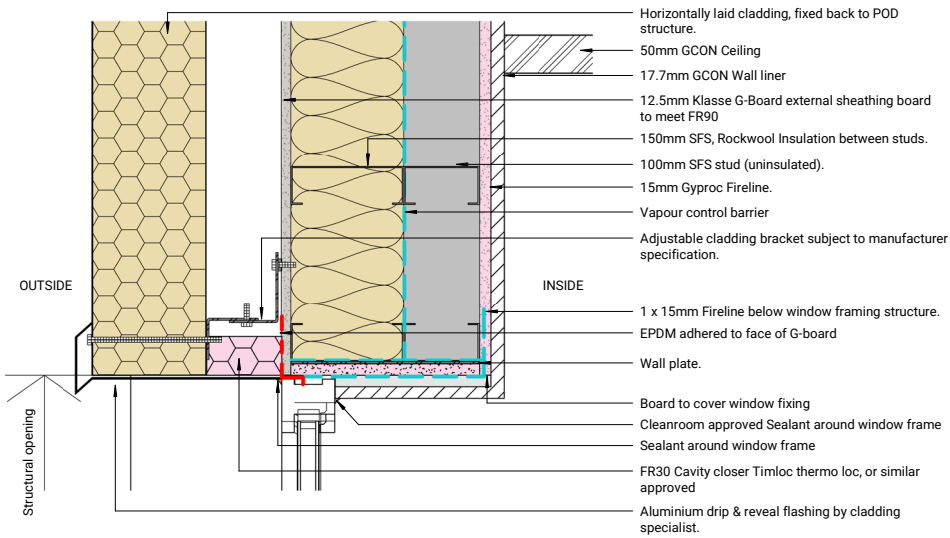
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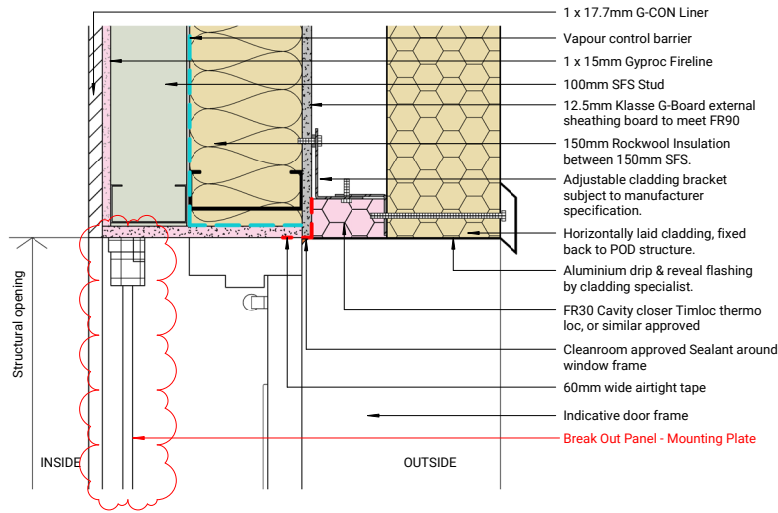
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Fire Strategy - Ground Floor

Project Name:		Size:	A1	Scale:	As indicated
Drawn By:	AB	Drawn Date:	13.03.2025	Checked By:	MM
Approved By:	MM	Approved Date:	13.03.2025	Rev:	
Drawing No:	10752-MTZ-ZT-GF-DR-A-3074				P08

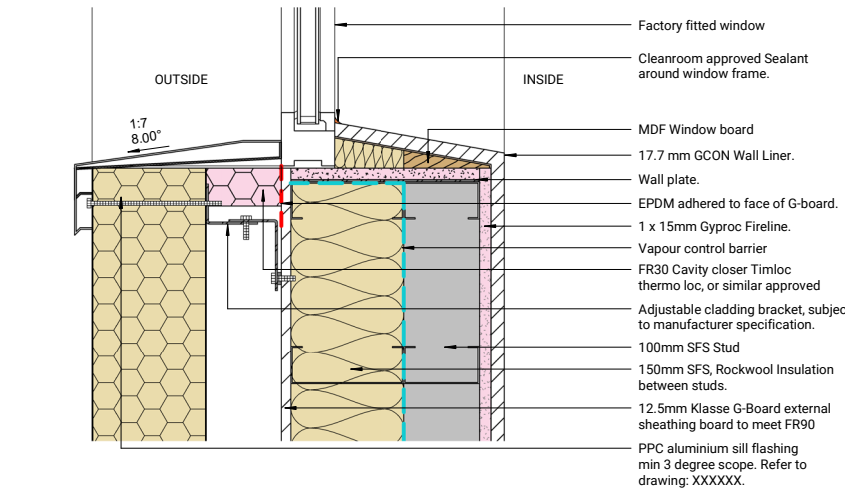
1 Envelope- Ground Floor- Window Head- Section detail
1 : 5



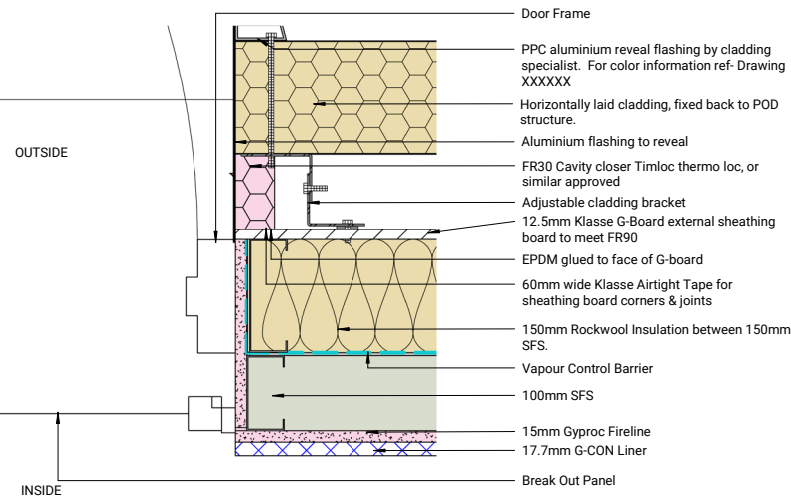
2 G-CON Break-Out Panel/ Door Section Detail Head
1 : 5



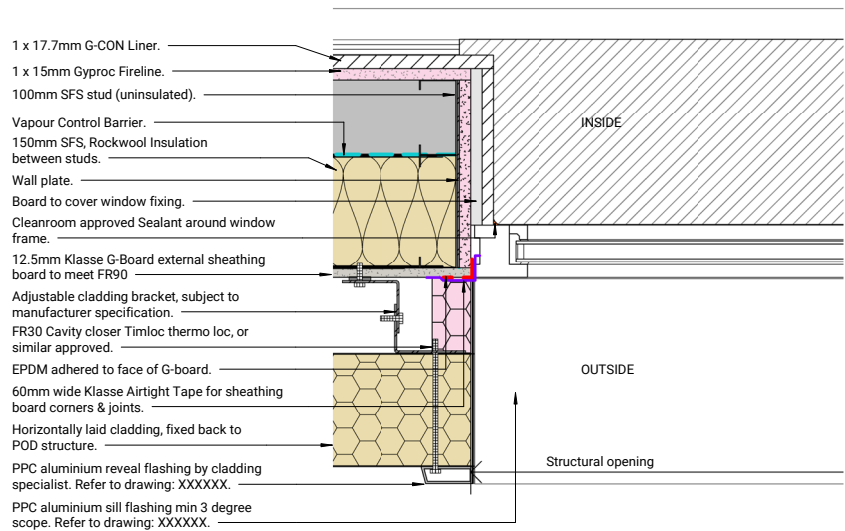
8 Envelope- Cleanroom GF - Window Sill- Section detail MP
1 : 5



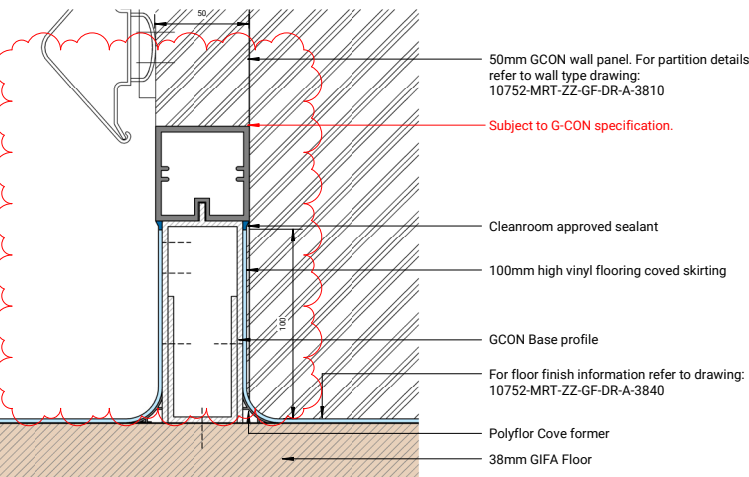
9 G-CON Break-Out Panel/ Door Plan Detail
1 : 5



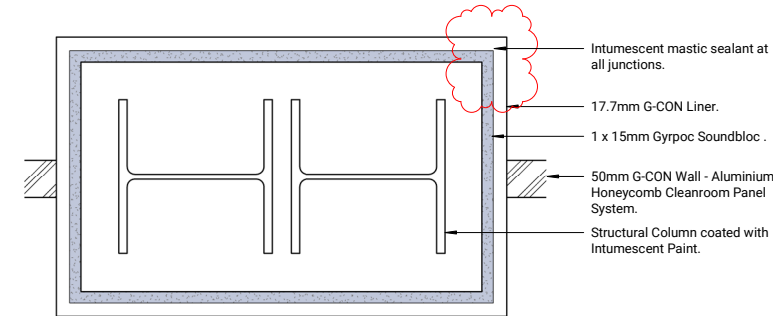
6 Envelope Detail - GF Cleanroom Window Jamb - Plan MP
1 : 5



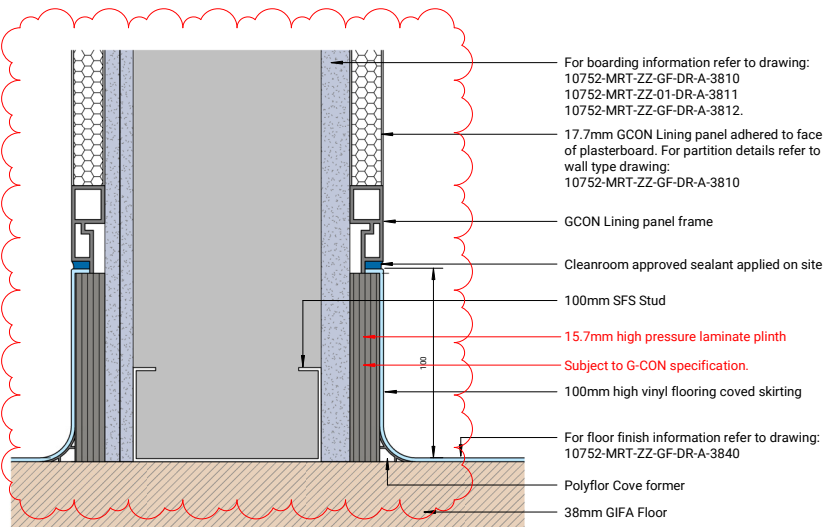
3 Skirting Detail- Vinyl Coving at Cleanroom panel
1 : 2



7 G-CON Boxing Out Detail
1 : 5



4 Skirting detail- Vinyl Coving at Cleanroom liner
1 : 2



DRAWING ANNOTATIONS
DRAWING REVISIONS
GENERAL NOTE & DIMENSIONS
IN ABEYANCE

PROJECT TYPE: ASEPTIC FACILITY
TYPICAL CLEANROOM DETAILS

Details developed in Revit for
manufacturer integration

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P02	10.09.25	PRELIMINARY	AB	MM
P01	08.08.25	PRELIMINARY	AB	MM
REV	DATE	DESCRIPTION	BY	APP
S0	PRELIMINARY			



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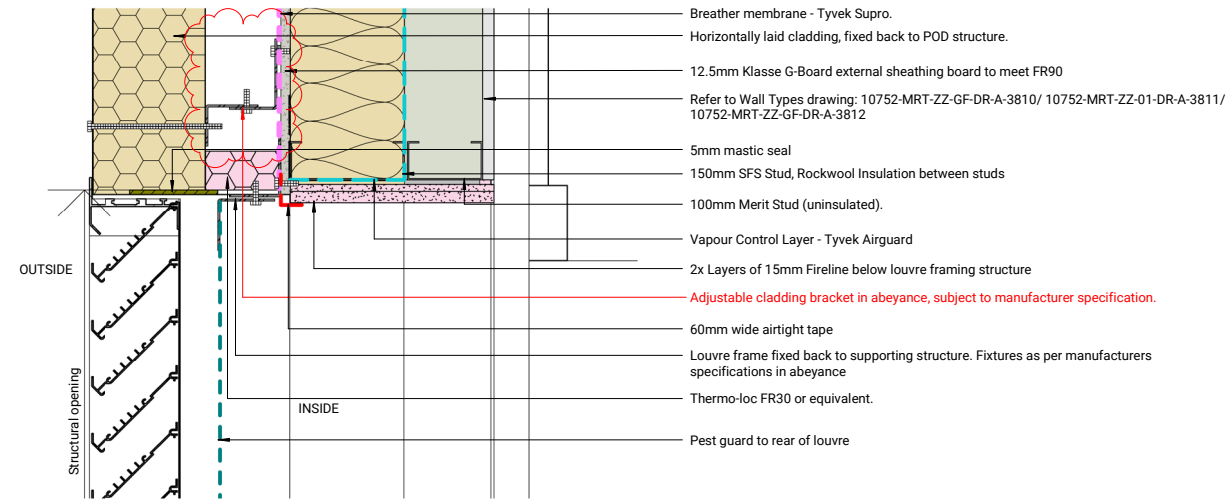
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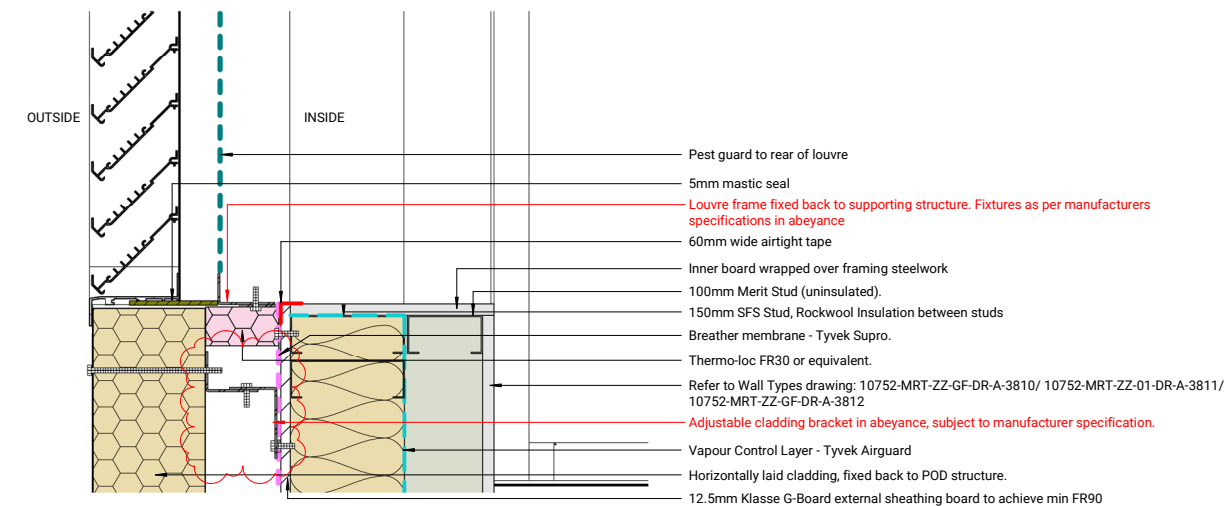
Client:

Drawing Title:
Typical Cleanroom Details 1

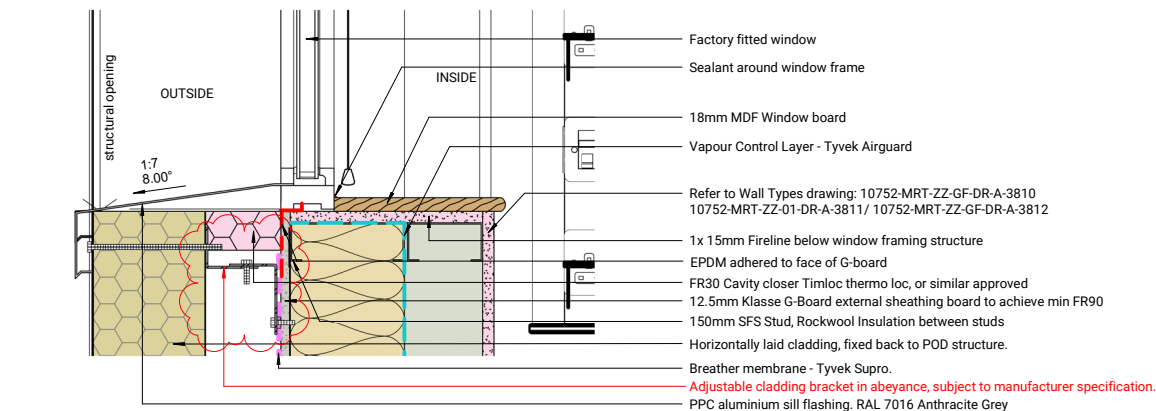
Project Name:				Size: A1	Scale: As indicated
Drawn By: AB	Drawn Date: 08.08.25	Checked By: MM	Approved By: TW	Approved Date: 08.08.25	
Drawing No: 10752-MRT-ZZ-XX-DR-A-3710				Rev: P02	



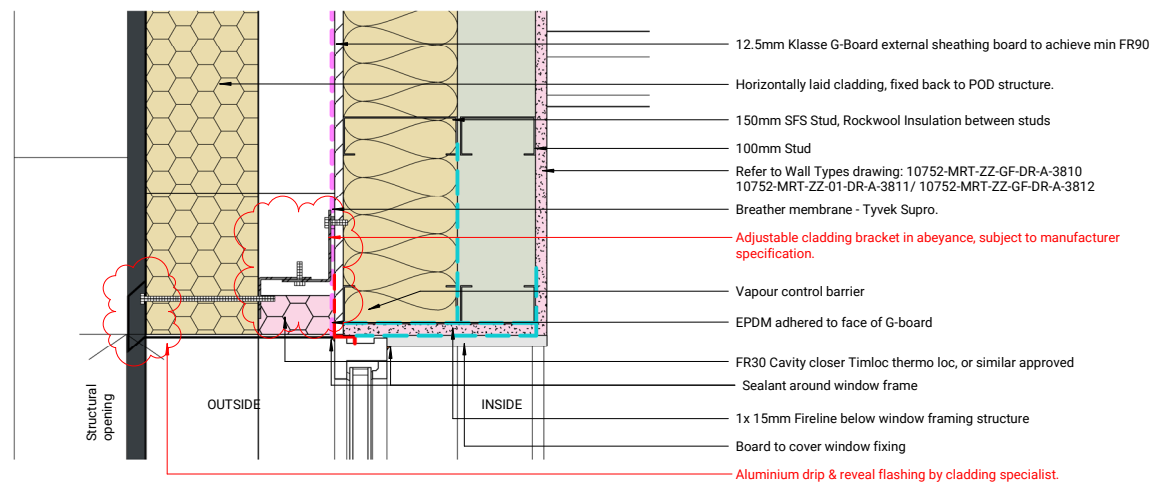
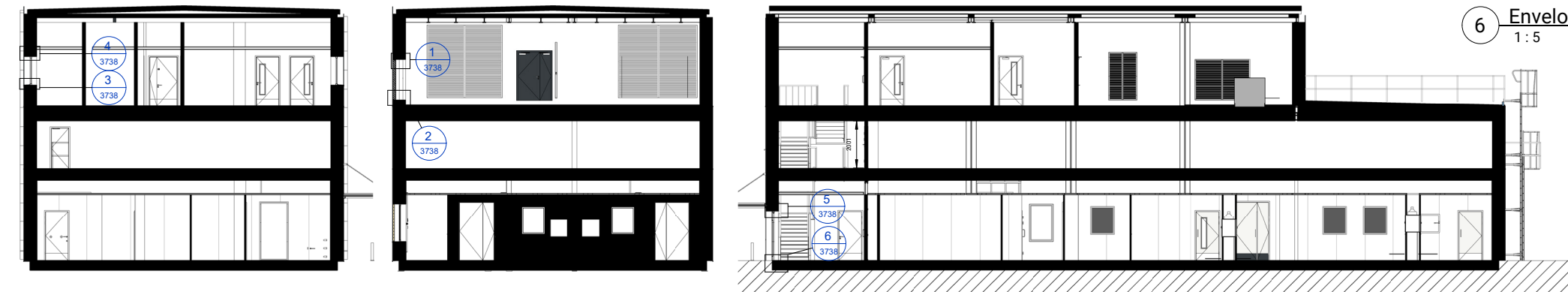
1 Envelope- Louvre head- Section detail
1 : 5



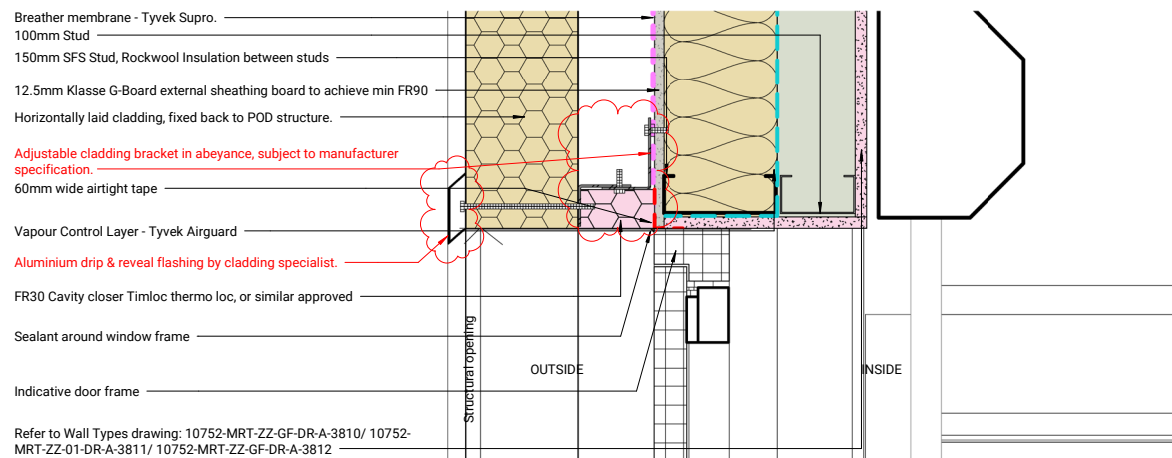
2 Envelope- Louvre base- Section detail
1 : 5



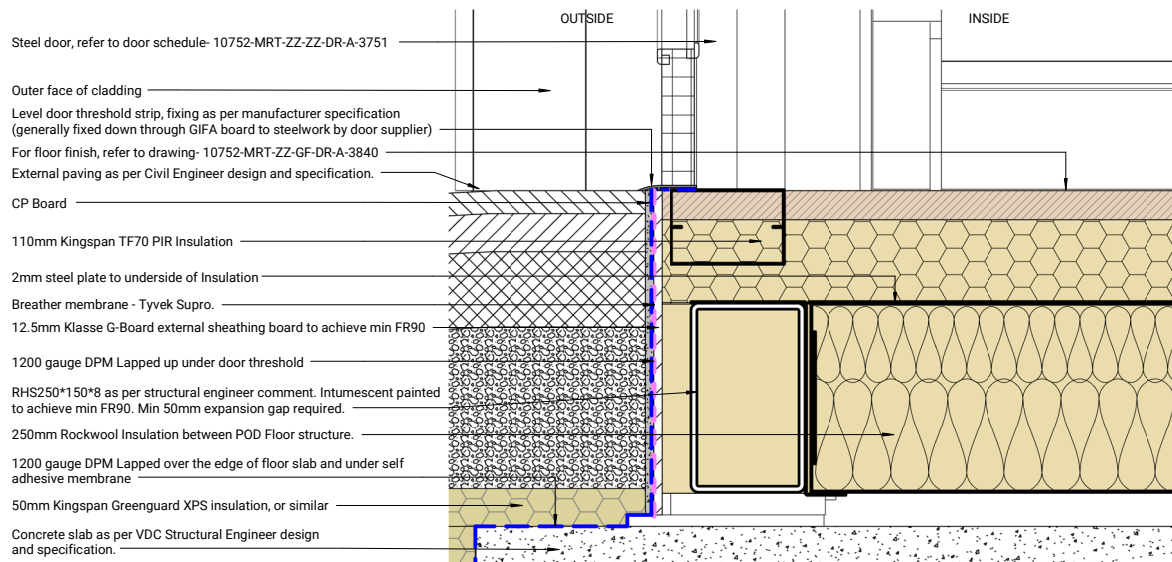
3 Envelope- FF Level- Window Sill Section detail
1 : 5



4 Envelope- FF Level- Window Head- Section detail
1 : 5



5 Envelope- Door Head- Section detail
1 : 5



6 Envelope- Door Threshold- Section detail
1 : 5

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5.Subcontractor surveys (e.g. for steelwork) override indicative dimensions and must ensure accurate fit and coordination.

6.The Principal Contractor is responsible for all temporary works and must appoint a competent Temporary Works Coordinator (TWC) in line with BS 5975.

7.Contractor-designed elements affecting Merit's scope must be submitted to the Engineer a minimum of 10 working days before fabrication. Merit's review does not transfer design responsibility.

8.Proprietary products shown are based on supplier data. Merit accepts no liability for their performance. Installation must follow manufacturer instructions.

9.All works must comply with the Construction (Design and Management) Regulations 2015. The Principal Contractor is responsible for site health, safety, and coordination.

10.Any significant residual design risks are highlighted in drawings or specifications and must be addressed in construction planning.

11. Only the latest revision of each drawing is to be used. Superseded versions must be removed from circulation.

Membrane Detail Key:

	Vapour Control Layer - Tyvek Airguard Control.
	60mm wide Klasse Airtight Tape for sheathing board corners & joints, 150mm wide VisqueenPro single-sided edge tape for pod joints, or EPDM for factory-installed window & door openings.
	Damp Proof Membrane min. 1200 gauge.
	Breather membrane Tyvek Supro.

DRAWING ANNOTATIONS

DRAWING REVISIONS

GENERAL NOTE & DIMENSIONS

IN ABEYANCE

P02	23.09.25	Updated as per design development	AB	MM
P01	08.08.25	PRELIMINARY	AB	MM
REV	DATE	DESCRIPTION	BY	APP

Status: S3 REVIEW & COMMENT



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Client:

Drawing Title:
Envelope
Opening Layout
Details

Project Name:	Size: A1	Scale: As indicated
Drawn By: AB	Drawn Date: 08.08.25	Checked By: MM
Approved By: TW	Approved Date: 08.08.25	Rev: P02
Drawing No: 10752-MRT-ZZ-ZZ-DR-A-3738		

PROJECT TYPE: ASEPTIC FACILITY
ENVELOPE DETAILS

DRAWING ANNOTATIONS
DRAWING REVISIONS
GENERAL NOTE & DIMENSIONS
IN ABEYANCE

Single leaf doors in labs subject to removal following fire engineer review

Partitions

- Rw 59 dB
- Rw 52 dB
- Rw 47 dB
- Rw 42 dB
- Rw 37 dB

Doors

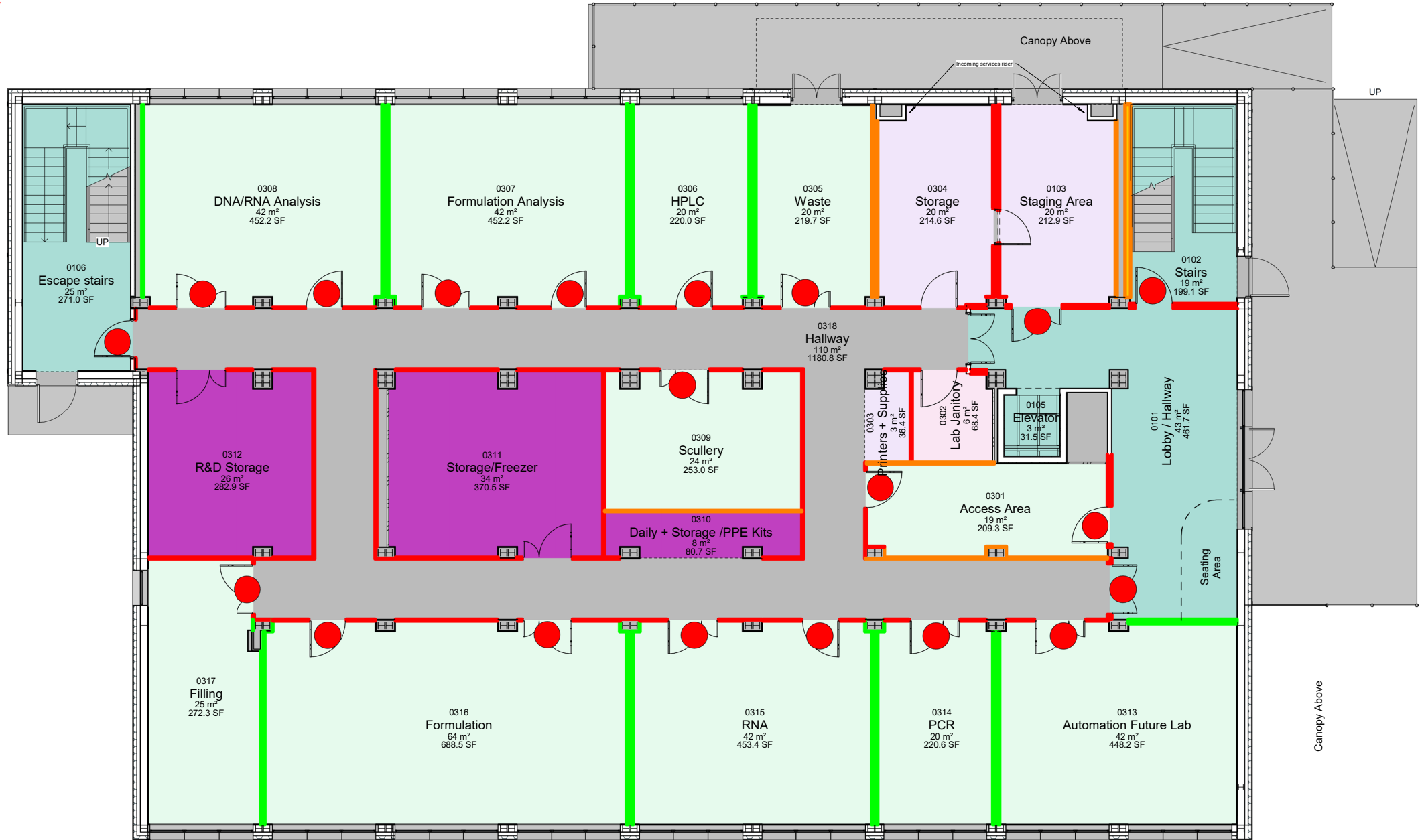
- Rw 35 dB
- Rw 30 dB

Glazed Screens

- Rw 45 dB
- Rw 38 dB

Background Noise Level

- CIRCULATION
- LAB AND PRODUCTION
- LIVING / SERVICES
- OTHER
- STORAGE



1 Ground Floor - Acoustic Plan
1 : 75

Acoustic Legend

Ceilings: Refer to the Reflected Ceiling Plan drawings for all ceiling ratings.

Rooms: The dB values listed for rooms represent their estimated noise tolerance (measured as LAeq over 30 minutes). The difference between the expected noise levels from adjacent spaces and the sound insulation performance of the separating construction must be less than the specified tolerance for each room.

Walls: The dB ratings shown for walls indicate their anticipated sound reduction performance. These ratings assume proper detailing at junctions and around any penetrations to maintain acoustic integrity.

Doors/Windows: The dB ratings for doors and windows specify the minimum required level of sound insulation for these components.

All stated values are intended as a design baseline and must be reviewed and confirmed with the Client, MEP consultants, and the Acoustic Consultant during detailed coordination.

All acoustic ratings shown are indicative and subject to verification.

PROJECT TYPE: BIOTECH R&D LAB
ACOUSTIC STRATEGY PLAN

MY ROLE:

- Developed early stage acoustic strategy by applying regulatory requirements to guide the lab layout and space performance.

DO NOT SCALE IF IN DOUBT ASK

NOTES:

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

ANY ANOMALIES TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO FABRICATION.

ANY DEVIATIONS FROM DRAWING TO BE REPORTED TO DESIGN DEPARTMENT PRIOR TO INSTALLATION.

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2.Drawings must be read in conjunction with all relevant architectural, engineering, and specialist information to ensure full coordination.

3.Any discrepancies within these drawings or between them and other documents must be referred to Merit before work proceeds.

4.Do not scale from drawings. Use figured dimensions only. Dimensions marked "to be site checked" must be verified prior to construction.

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9.All works must comply with the Construction (Design and Management) Regulations 2015. The Principal Contractor is responsible for site health, safety, and coordination.

10.Any significant residual design risks are highlighted in drawings or specifications and must be addressed in construction planning.

11. Only the latest revision of each drawing is to be used. Superseded versions must be removed from circulation.

Acoustic design is subject to building control sign off.

C01	10.07.25	FINAL DESIGN SUBMISSION	AB	MM
P04	08.07.25	For Final Review	AB	MM
P09	23.05.25	Updated Layout	AB	MM
P02	23.05.25	Updated Acoustic levels	AB	MM
P01	08.05.25	PRELIMINARY	AB	MM
REV	DATE	DESCRIPTION	BY	APP

Status:	A4	TECHNICAL DESIGN
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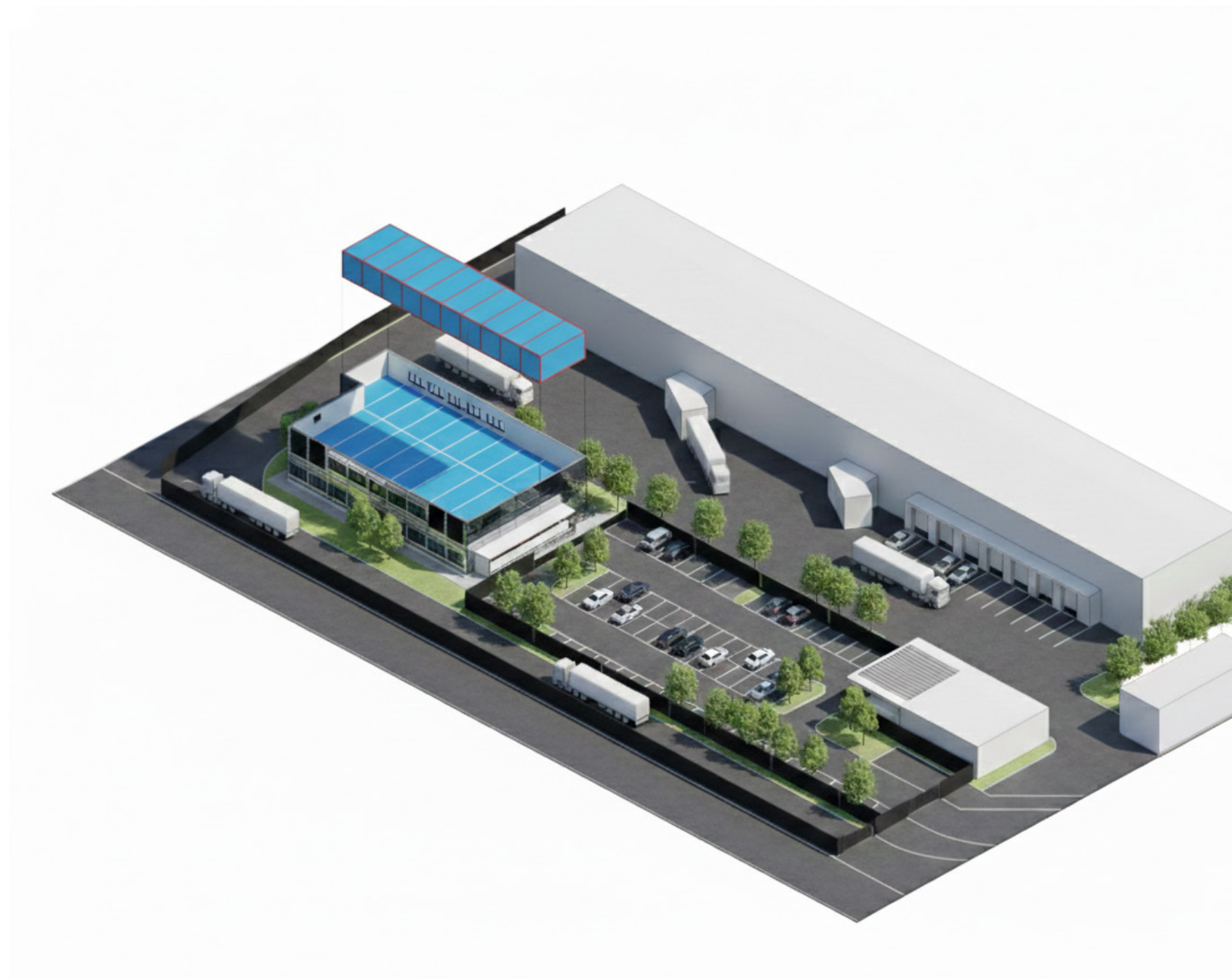
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Client:

Drawing Title:
Ground Floor Acoustic Plan
Proposed Layout
General Arrangement

Project Name:	Size: A1	Scale: As indicated
Drawn By: AB	Drawn Date: 08/05/25	Checked By: MM
Approved By: MM	Approved Date: 08/05/25	Rev: C01
Drawing No: 10729-MRT-ZZ-GF-DR-A-3081		

Tenders Stage
Selected Works.



Proposal Document Pages

Health and wellbeing centre plus Urgent care

Designed the project from concept stage, including zoning, spatial planning, circulation, room sizing, floor plans, and the final design proposal.

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The hospital design prioritizes ease of navigation, ensuring that all spaces are clear to locate. Additionally, the south wall of the building, which holds historical significance for the community, has been retained and integrated into the design, preserving its cultural value while complementing the modern facility. This approach combines functionality, accessibility, and respect for heritage.

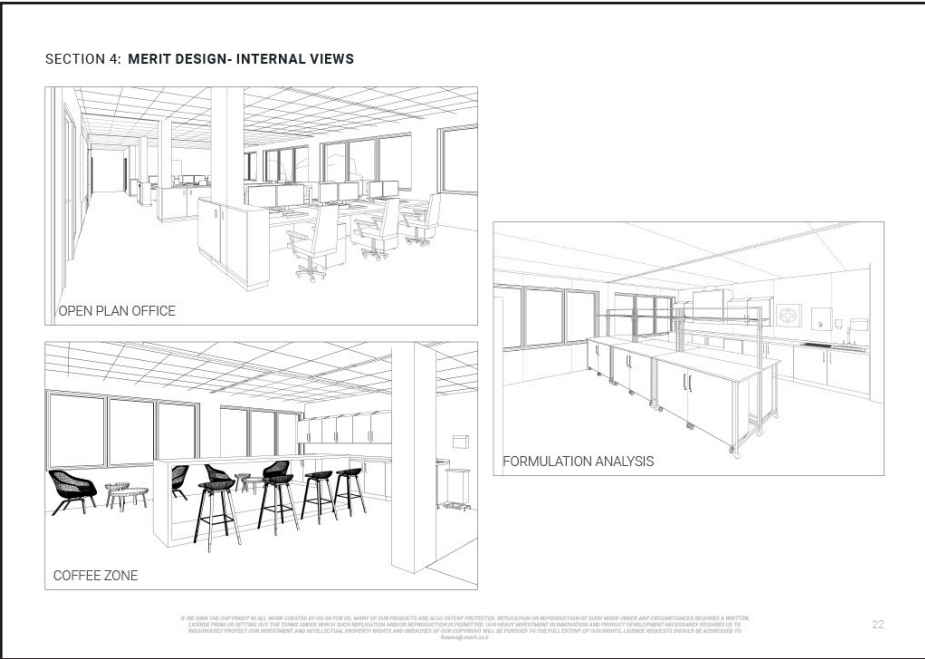
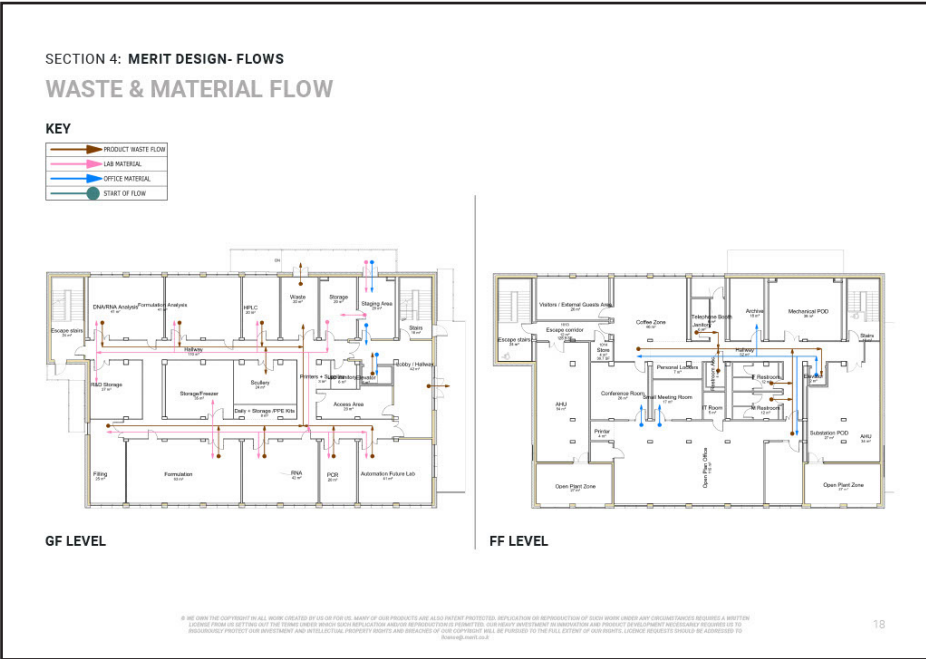
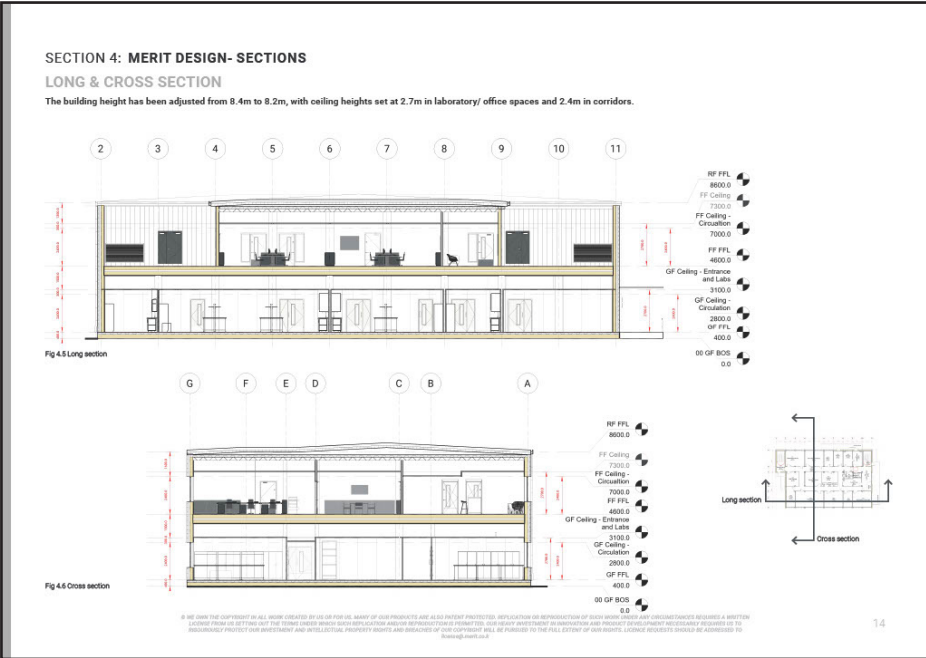
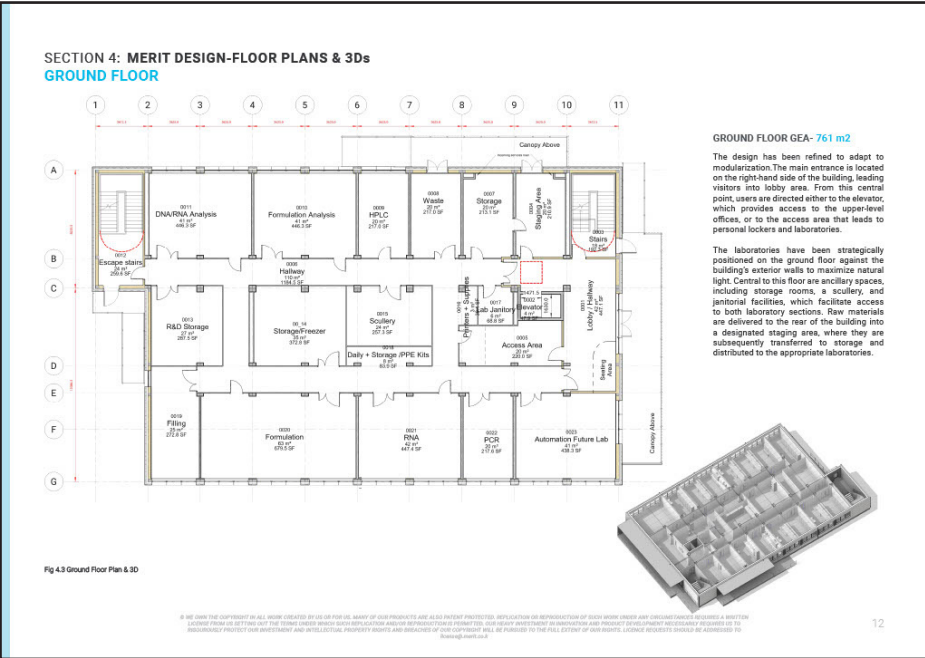
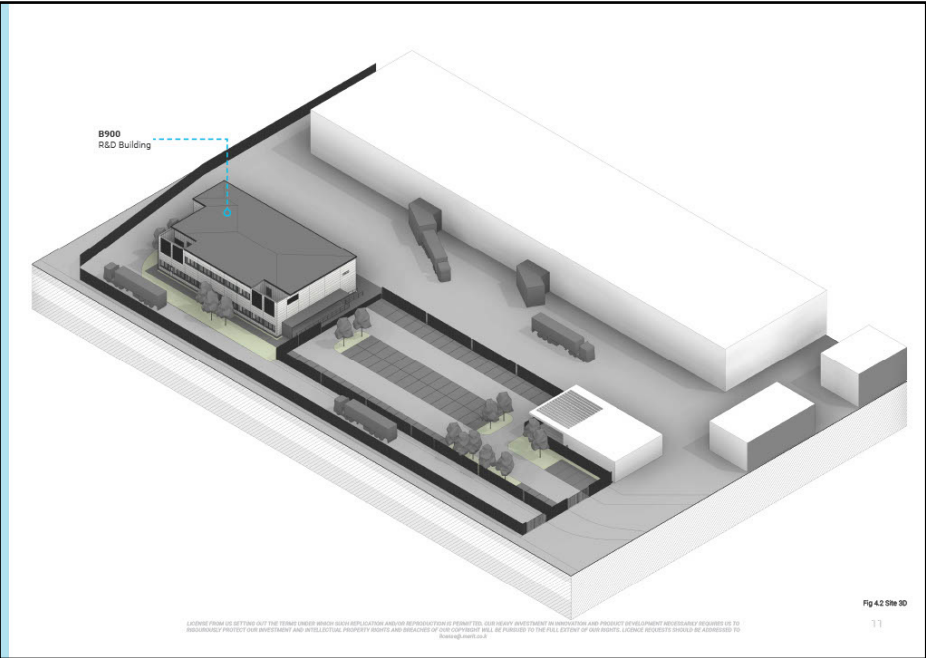
A large, modern interior space, likely a library or community center, featuring a mezzanine level with a wooden railing. The ground floor has a reception desk, seating areas with blue armchairs, and a large wooden sculpture hanging from the ceiling. The walls are light-colored, and the floor is made of light wood.

PROPOSED ATRIUM RENDER

type.

BIOTECH
R&D Lab

MY ROLE:
Led the design development stage, revising plans based on client feedback, updating layouts and zoning, and producing the design proposal.

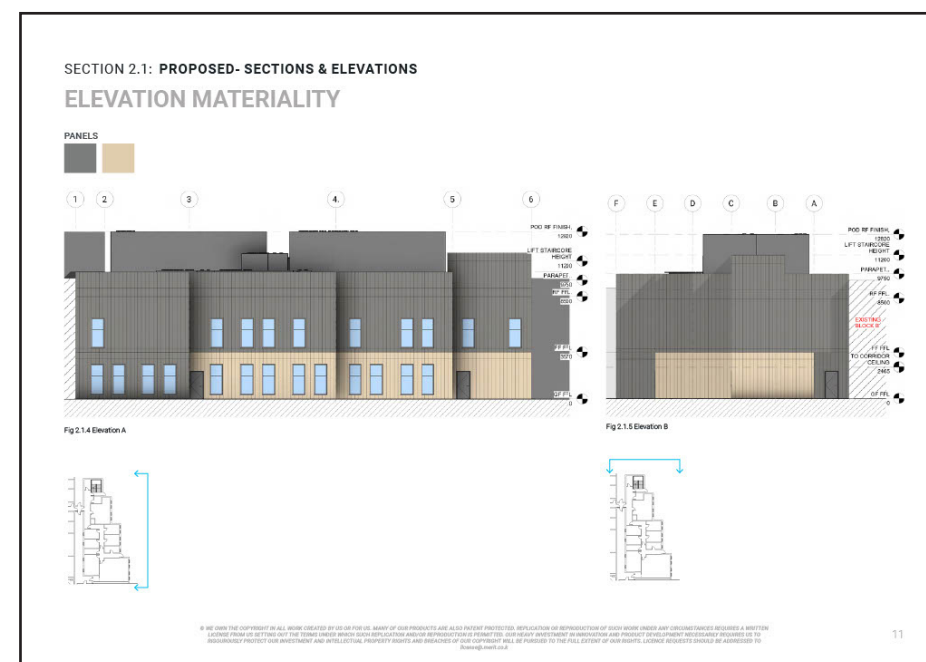
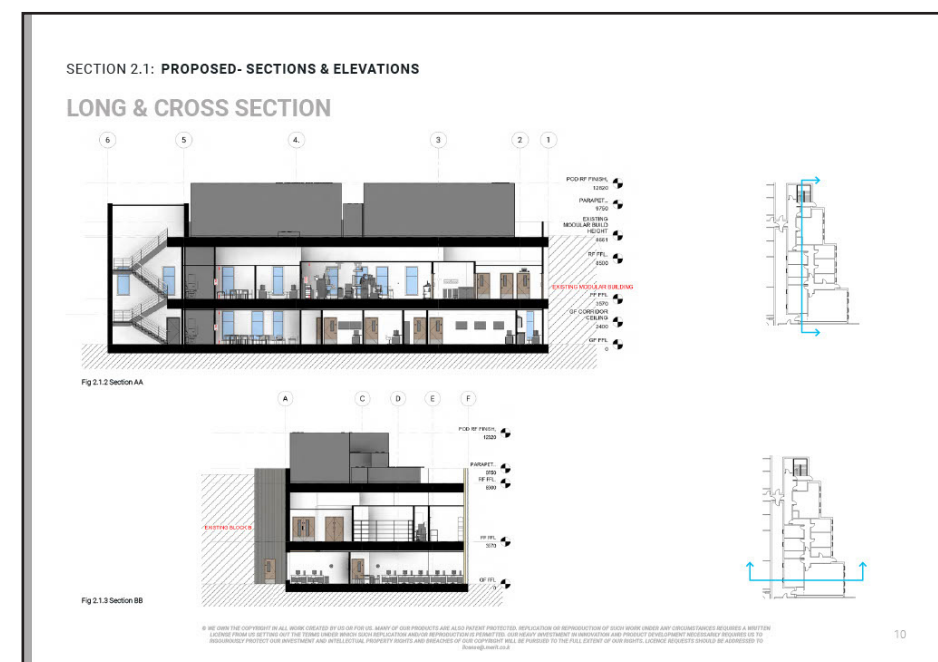
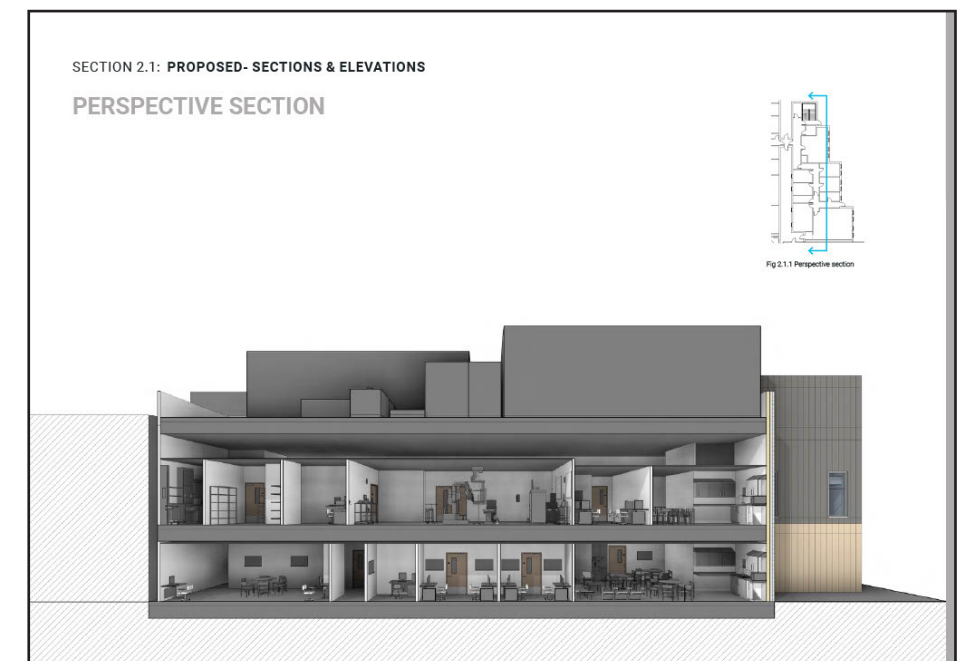
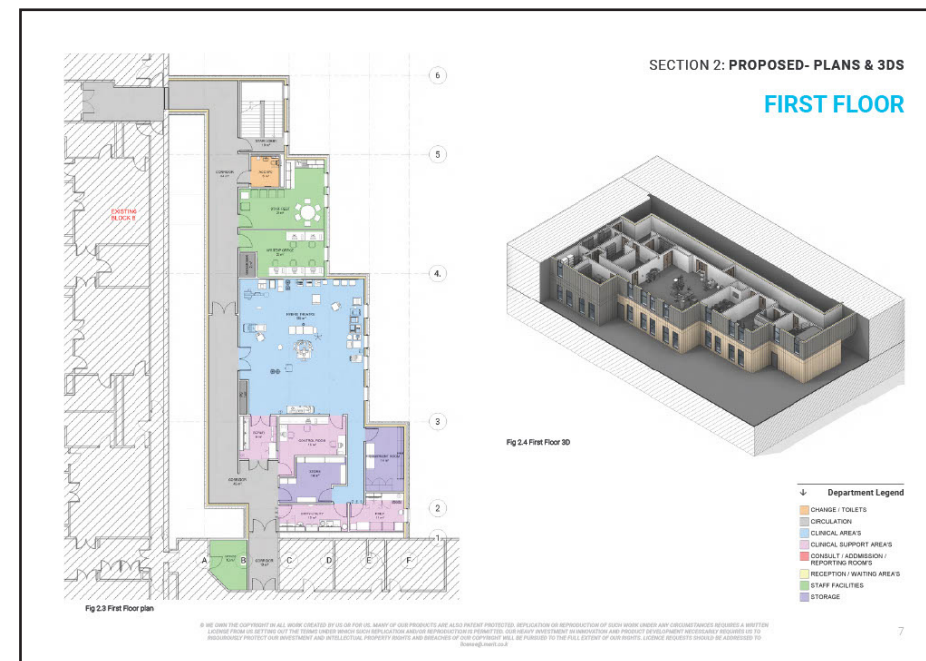
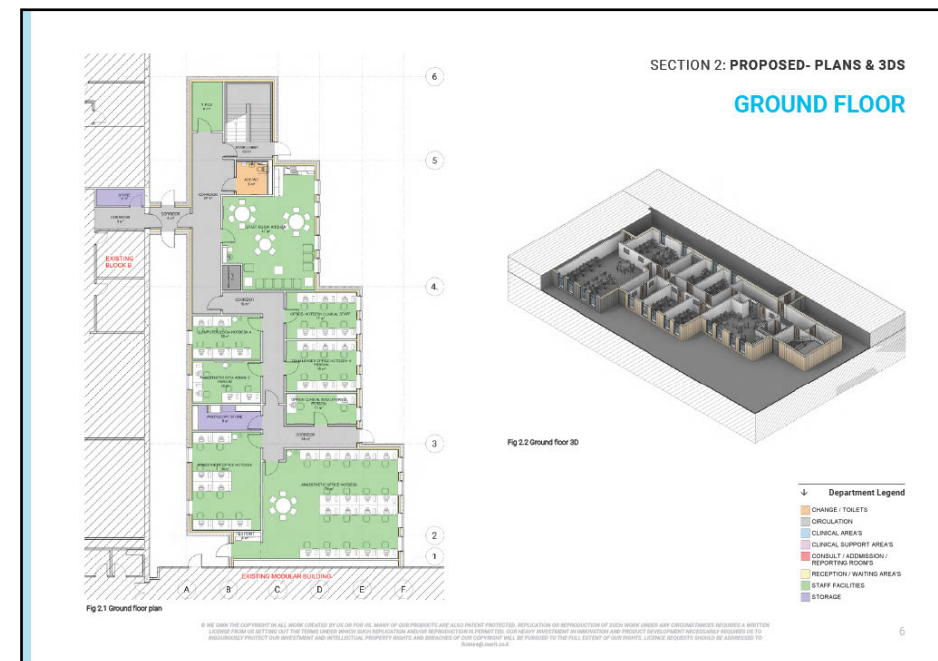


type.

HEALTHCARE Hybrid Theatre Facility

MY ROLE:

Led design from concept stage, including zoning, spatial planning, room layouts, sections, elevations, material development, and 3D visualisation.



Thankyou.
for your time

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