



A-001

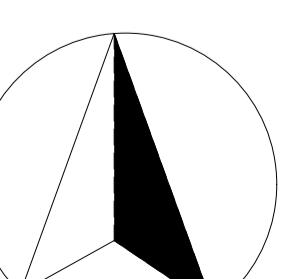
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NOTES:
 1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.
 2. The contractor must check and verify all dimensions on site before commencement of work.
 Any discrepancies must be notified immediately to the architect.
 3. All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architect or consultants drawing.
CONSTRUCTION:
 4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.
 5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
 6. All soil under slab and around external foundations to be poisoned for termite control.
 7. Window sills must be finished before internal plastering.
CIVIL:
 8. All cuts on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
STRUCTURAL:
 9. All RC work to structural engineer's details.
 10. Depth of foundation to be determined on site to S.E.'s approval.
 11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL:
 12. All plumbing and drainage to comply with city councils specifications.
 13. All service ducts to be accessible from all floors.
 14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
 15. SVP (soil vent pipes) to be provided at the head of the drainage.
 16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
 17. All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
 18. All storm water drain to comply to BSS 556.
 19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
 20. Minimum slopes in drainpipes shall be 1%.
 21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
 22. All testing of pipes must be completed before plastering.
 23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.
ELECTRICAL:
 24. All conduits must be laid before plastering.
 25. All electrical work must be coordinated with mechanical drawings.

NO	REVISIONS			DATE: 14-06-2024	DESIGNED BY: PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	CHECKED BY: OKOTH DAVIS	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE-1:100
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REVISIONS			DATE: 14-06-2024	DESIGNED BY: PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	CHECKED BY: OKOTH DAVIS	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE-1:100
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A-002

UPPER GROUND

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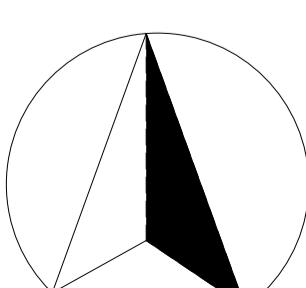
MECHANICAL:

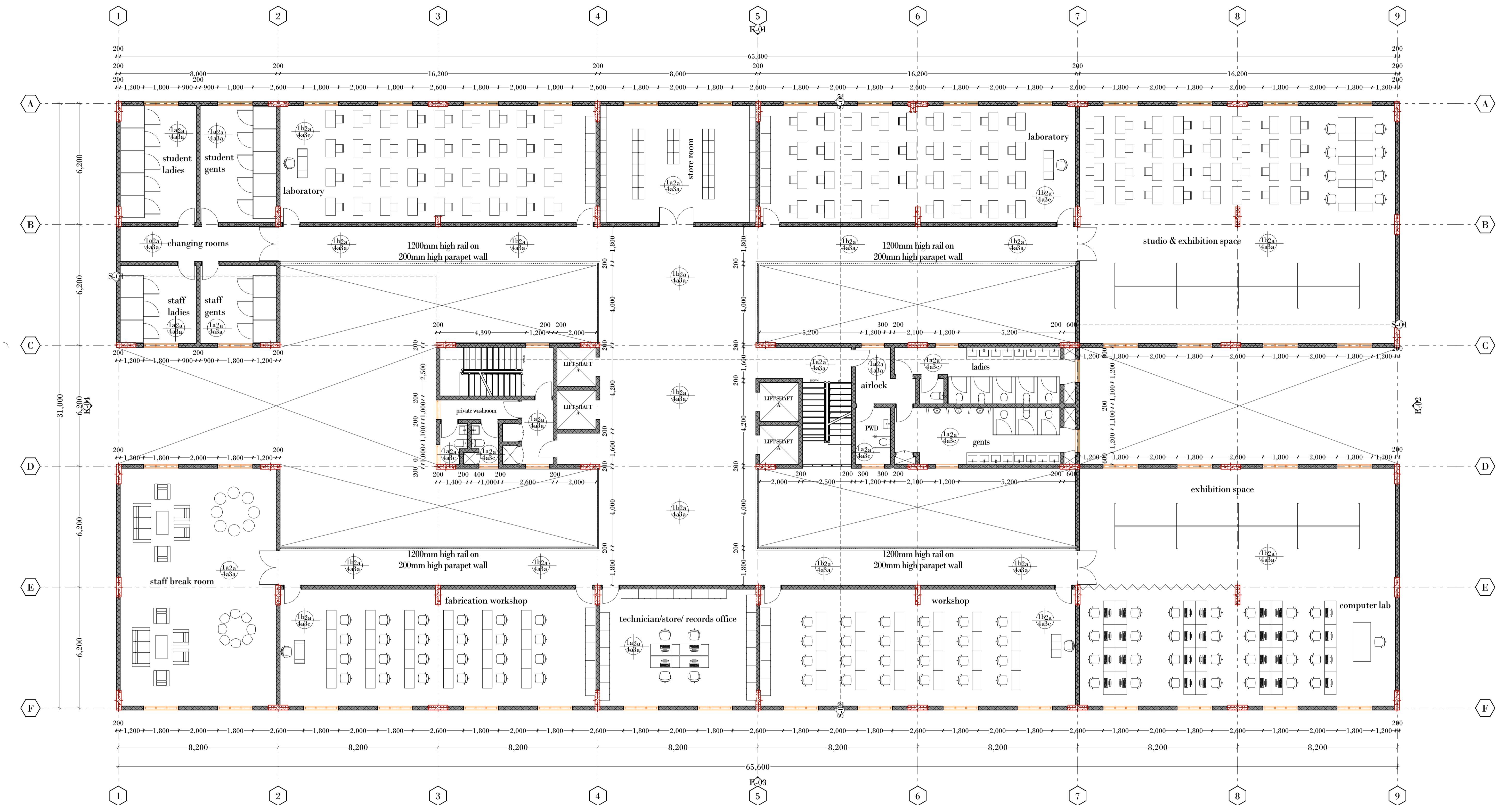
- All plumbing and drainage to comply with city councils specifications.
- All service ducts to be accessible from all floors.
- Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
- SVP (soil vent pipes) to be provided at the head of the drainage.
- Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
- All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
- All storm water drain to comply to BSS 556.
- All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
- Minimum slopes in drainpipes shall be 1%.
- No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
- All testing of pipes must be completed before plastering.
- All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.

ELECTRICAL:

- All conduits must be laid before plastering.
- All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	DRAWING TITLE: ADMINISTRATION CLASSES, LABS & WORKSHOPS	REGISTRATION NUMBER:	CLIENT: AZUL TRADING LIMITED	B76/4701/2020
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A-003

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		NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO
	1			OKOTH DAVIS	DR. ARCH RALWALA		
	2				DR. KIVINDU		
	3				DR. KARIUKI	DRAWING TITLE: ADMINISTRATION CLASSES, LABS & WORKSHOPS	
	4				ENG. YINAM		
	5				QS. MULAKU	CLIENT: AZUL TRADING LIMITED B76/4701/2020	COURSE CODE: BCM 410



A-004

3RD- 5TH FLOOR

1:100

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- All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
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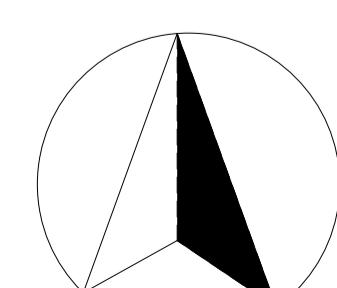
MECHANICAL:

- All plumbing and drainage to comply with city councils specifications.
- All service ducts to be accessible from all floors.
- Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
- SVP (soil vent pipes) to be provided at the head of the drainage.
- Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
- All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
- Storm water drain to comply to BSS 556.
- All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
- Minimum slopes in drainpipes shall be 1%.
- No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
- All testing of pipes must be completed before plastering.
- All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.

ELECTRICAL:

- All conduits must be laid before plastering.
- All electrical work must be coordinated with mechanical drawings.

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NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	OKOTH DAVIS	DR. ARCH RALWALA DR. KIVINDU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	1:100
1				DRAWING TITLE: ADMINISTRATION CLASSES, LABS & WORKSHOPS		DR. KARIUKI ENG. YINAM		
2								
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4				CLIENT: AZUL TRADING LIMITED	B76/4701/2020	QS. MULAKU		
5							COURSE CODE: BCM 410	





A-005

6TH-7TH FLOOR

1:100

NOTES:

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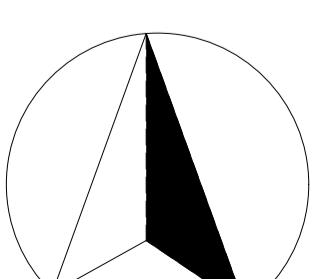
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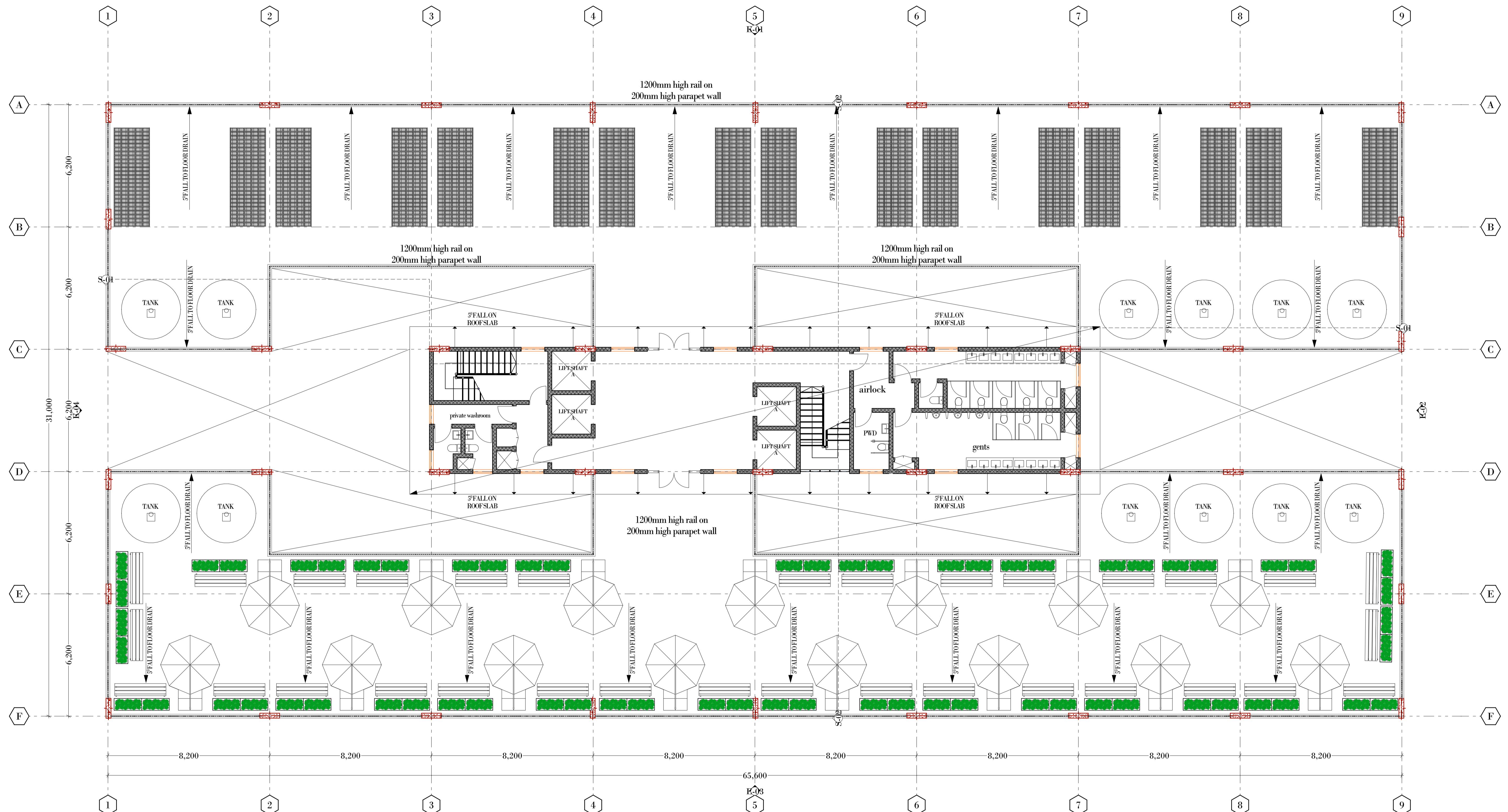
- All plumbing and drainage to comply with city councils specifications.
- All service ducts to be accessible from all floors.
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ELECTRICAL:

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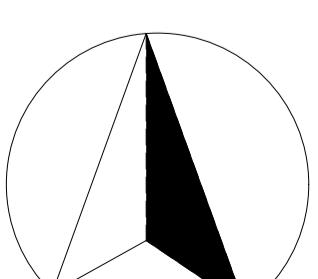


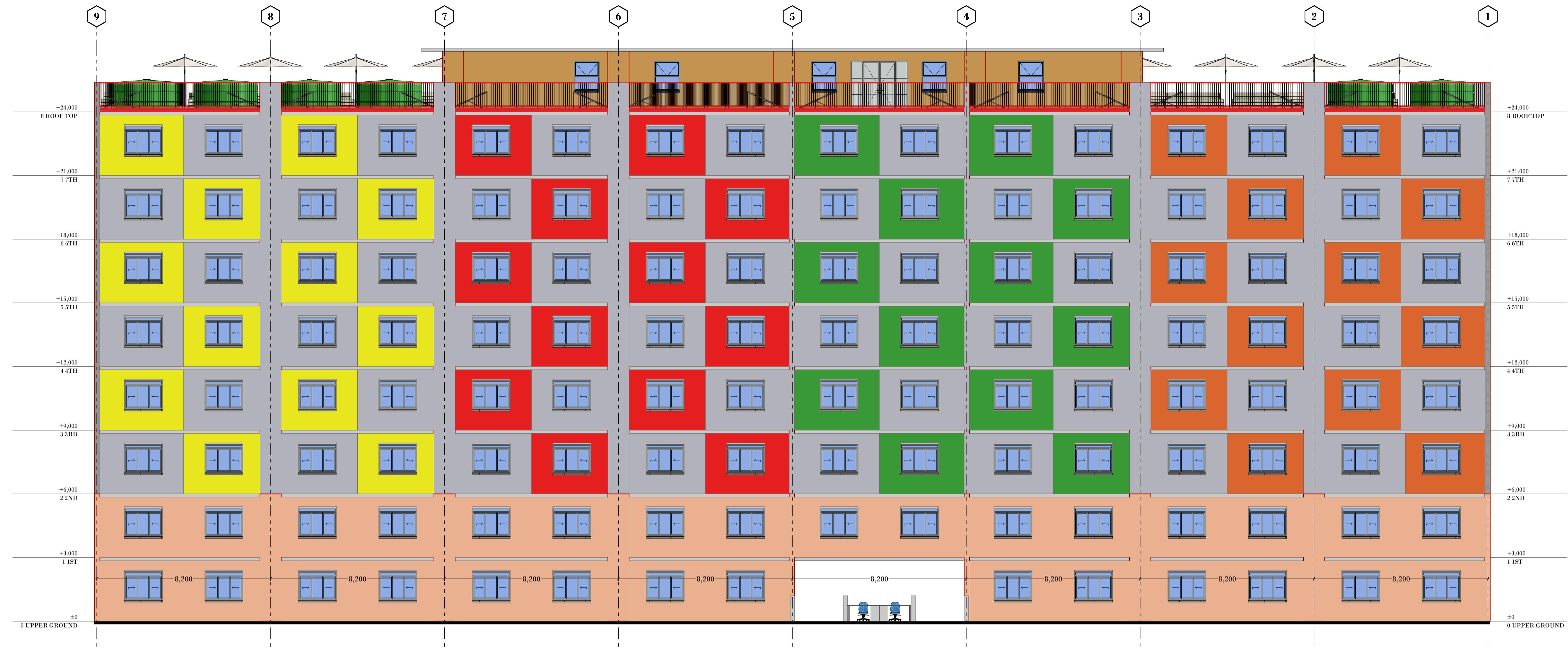
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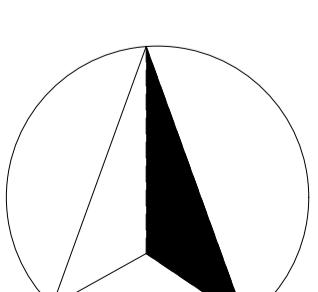


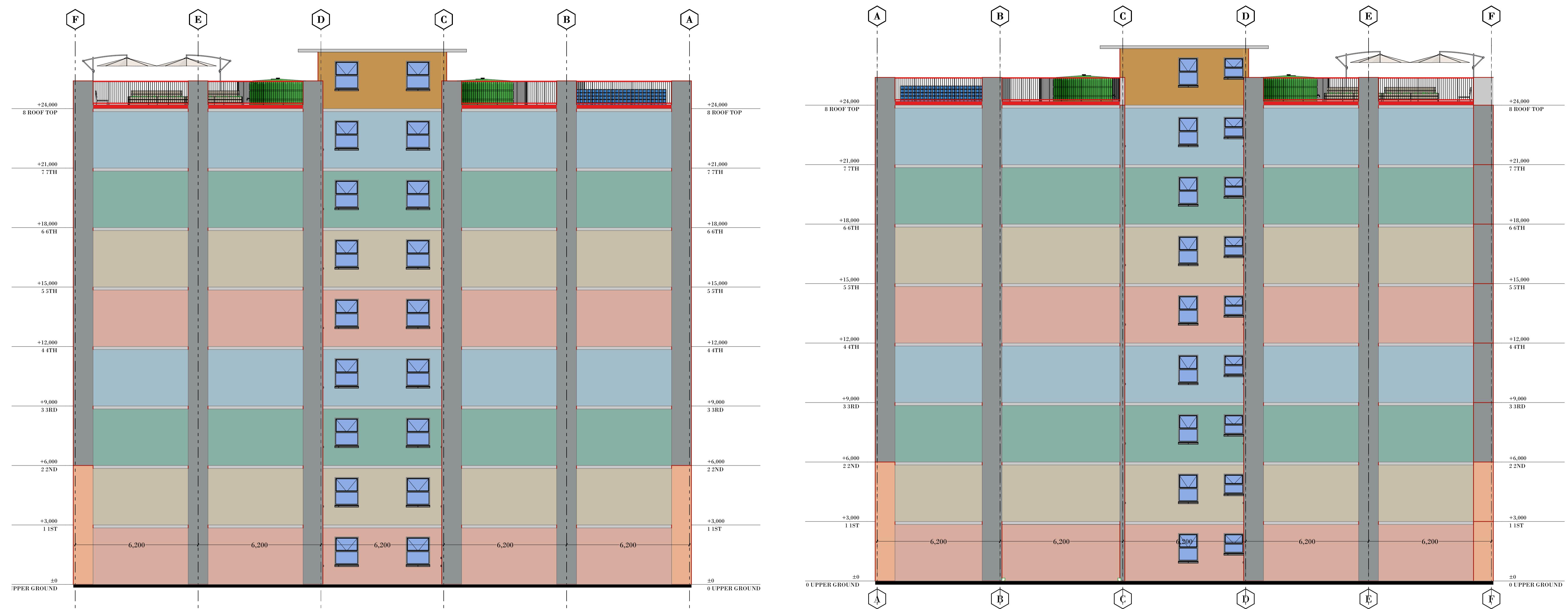


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1				DRAWING TITLE: ADMINISTRATION CLASSES, LABS & WORKSHOPS			DR. KARIUKI ENG. YINAM	
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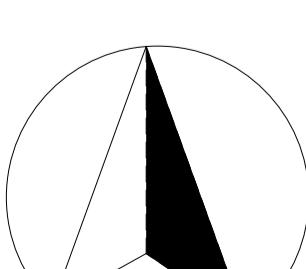




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5					CLIENT: AZUL TRADING LIMITED	B76/4701/2020	QS. MULAKU	





E-03

FRONT ELEVATION

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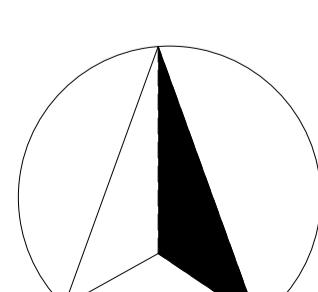
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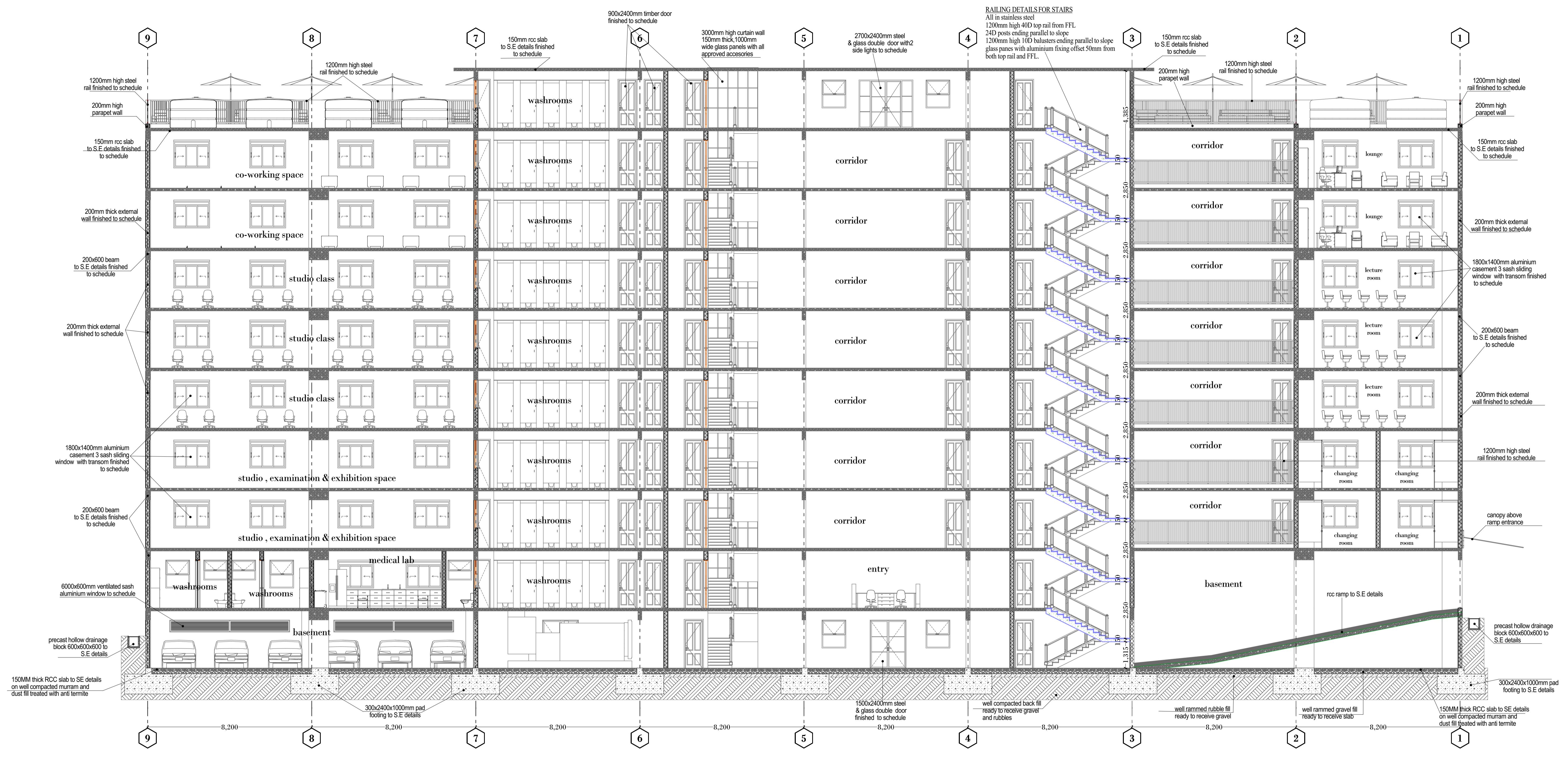
NO	DATE	DESCRIPTION	CHECKED BY	DATE: 14-06-2024	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	DESIGNED BY: OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA DR. KIVINDU	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE: 1:100
				DRAWING TITLE: ADMINISTRATION CLASSES, LABS & WORKSHOPS					
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CLIENT: AZUL TRADING LIMITED
B76/4701/2020

QS. MULAKU

COURSE CODE: BCM 410

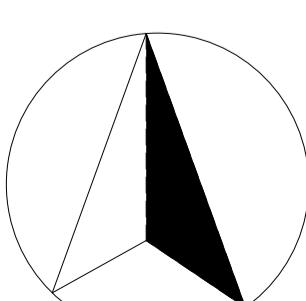


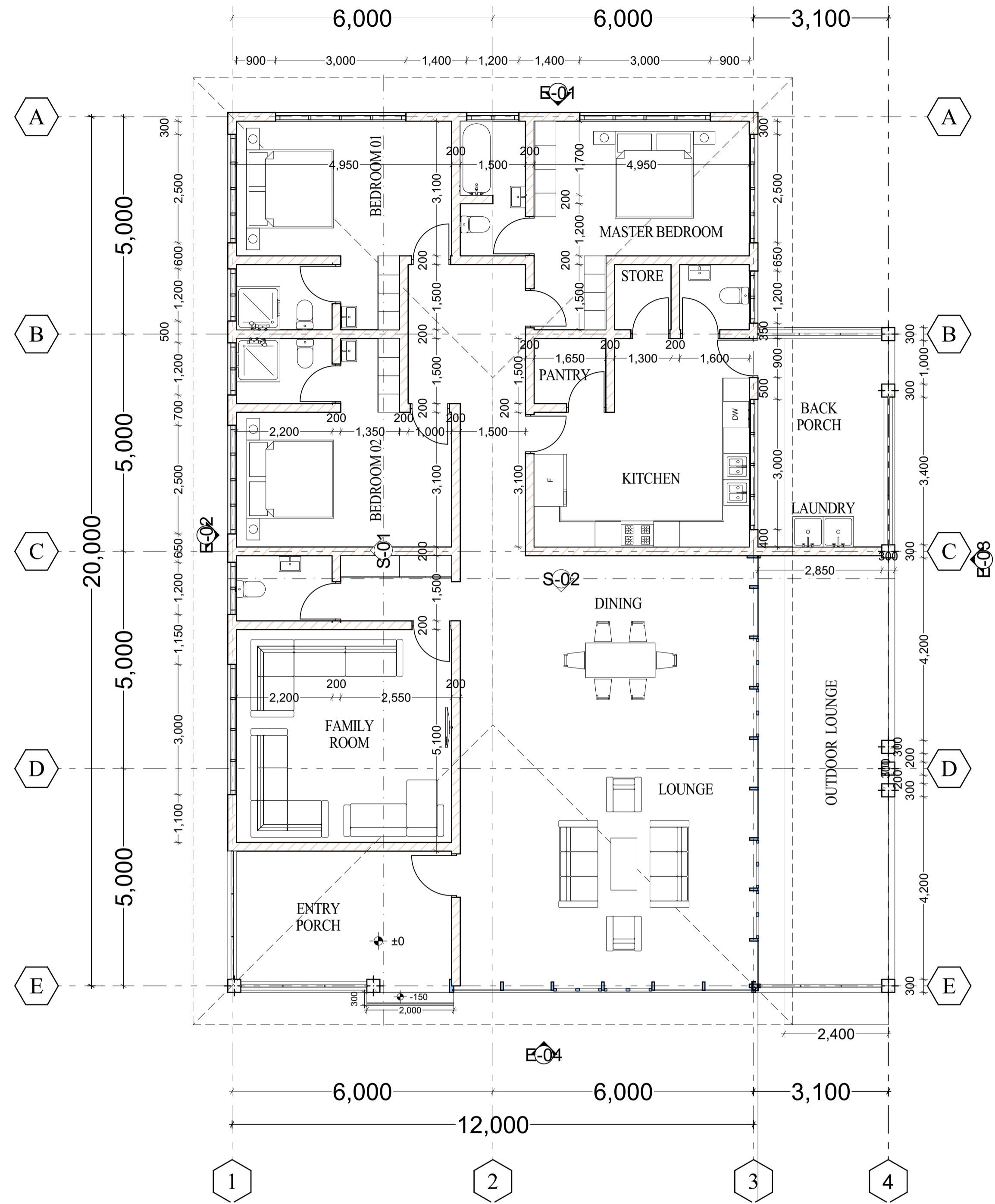


S-01

1:100

REVISIONS				DATE: 14-06-2024	DESIGNED BY: PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA DR. KIVINDU	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE-1:100
NO	DATE	DESCRIPTION	CHECKED BY	DRAWING TITLE: ADMINISTRATION CLASSES, LABS & WORKSHOPS	REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED B76/4701/2020	QS. MULAKU	COURSE CODE: BCM 410	
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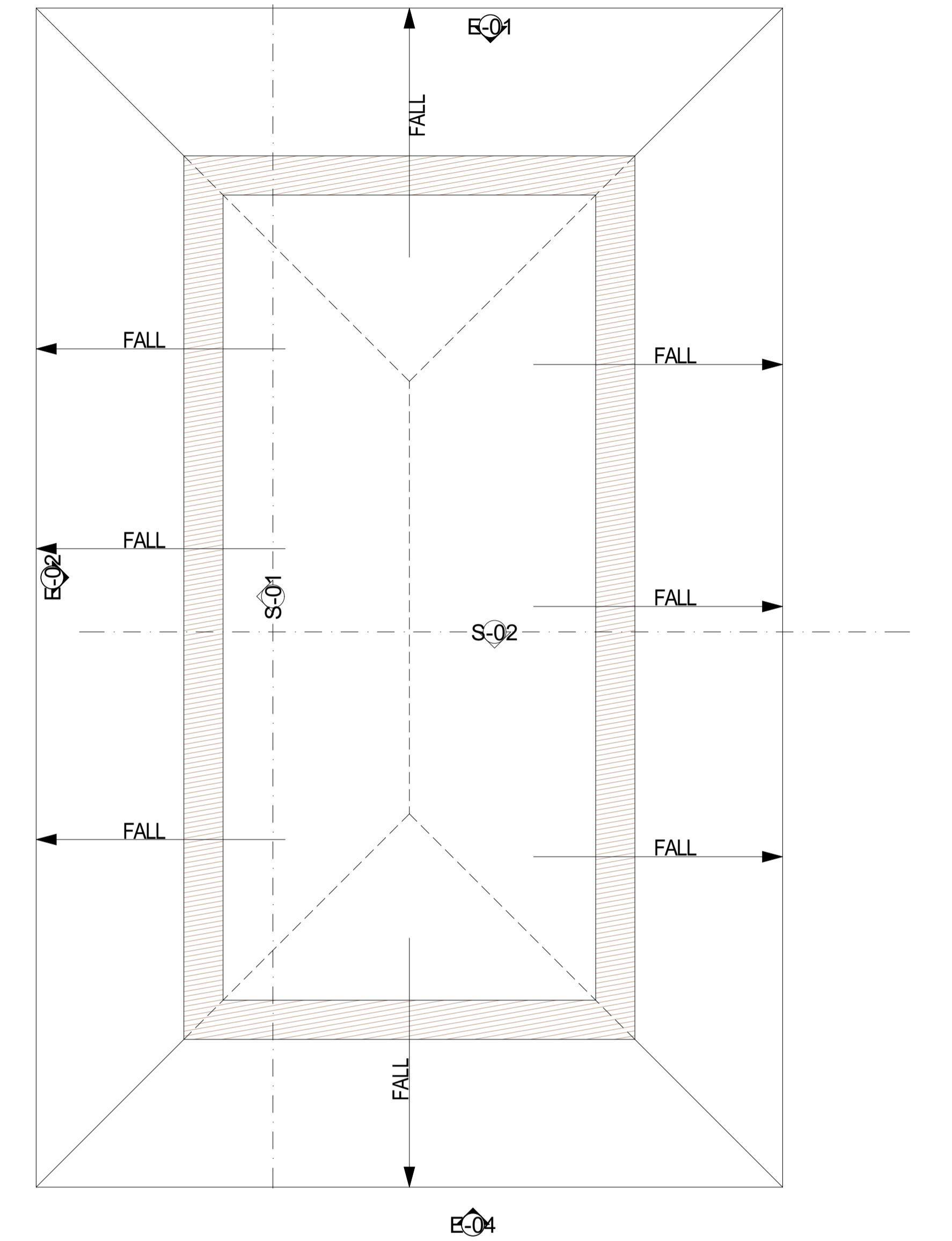




A-001

Ground Floor

1:75



A-002

Roof plan

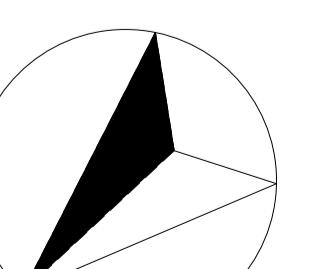
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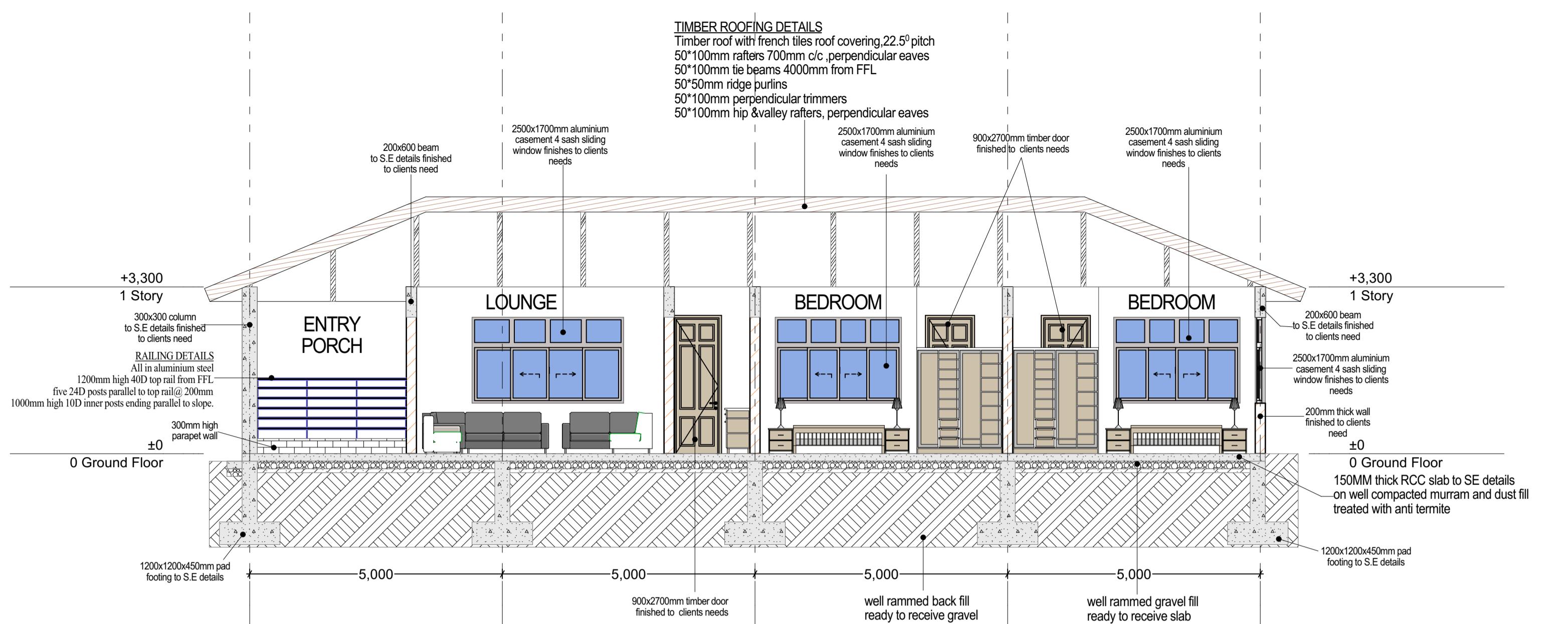
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6. All soil under slab and around external foundations to be poisoned for termite control.	
7. Window sills must be finished before internal plastering.	
CIVIL	
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STRUCTURAL	
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NO	REVISIONS			DATE:14-06-2024	DESIGNED BY: OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA	COURSE: INTERGRATED DESIGN STUDIO	SCALE-1:75
	DATE	DESCRIPTION	CHECKED BY					
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PROJECT TITLE: THE FORUM
DRAWING TITLE: PLANS, SECTIONS & ELEVATIONS -CARETAKER
REGISTRATION NUMBER:
CLIENT:THE UNIVERSITY OF NAIROBI
B76/4701/2020
COURSE CODE: BCM 413

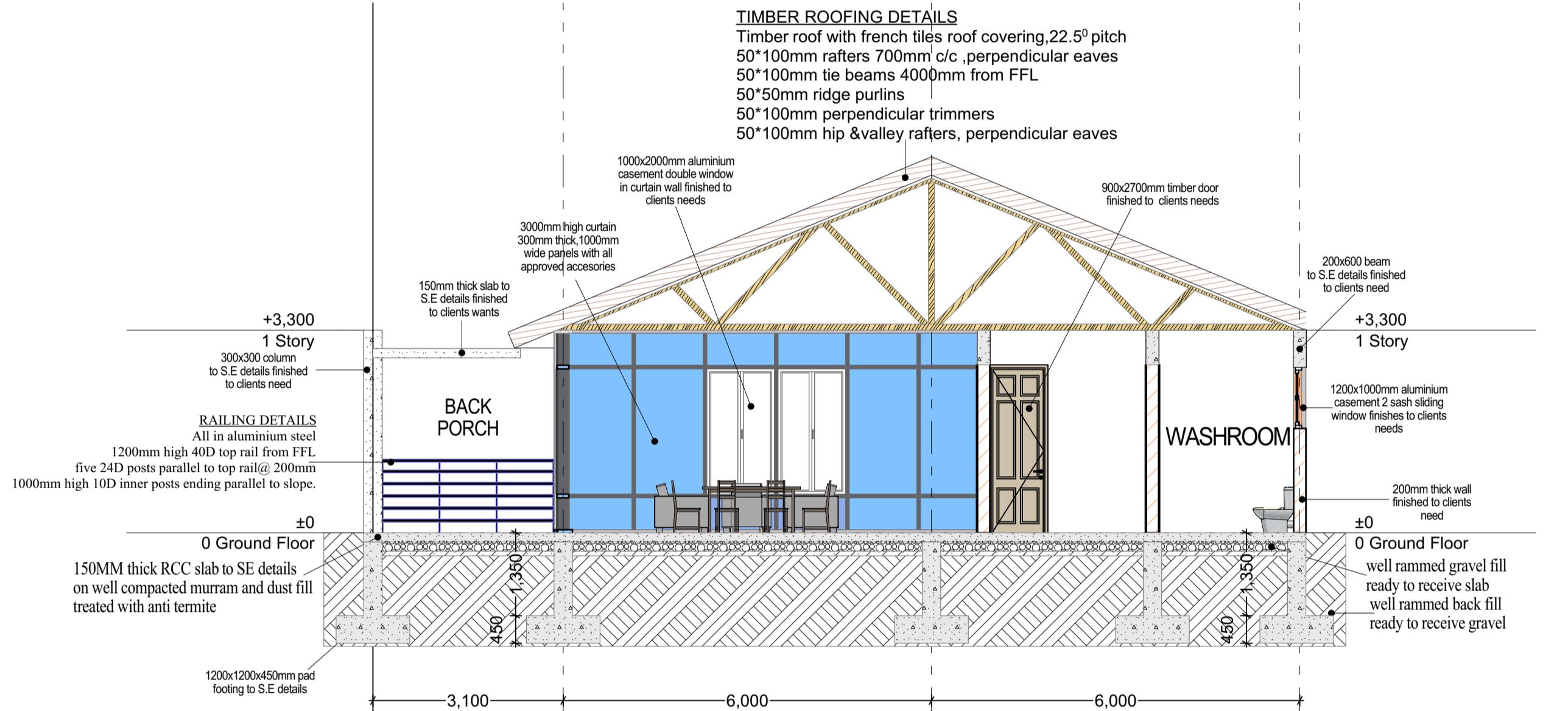




S-01

Building Section

1:75



S-02

Building Section

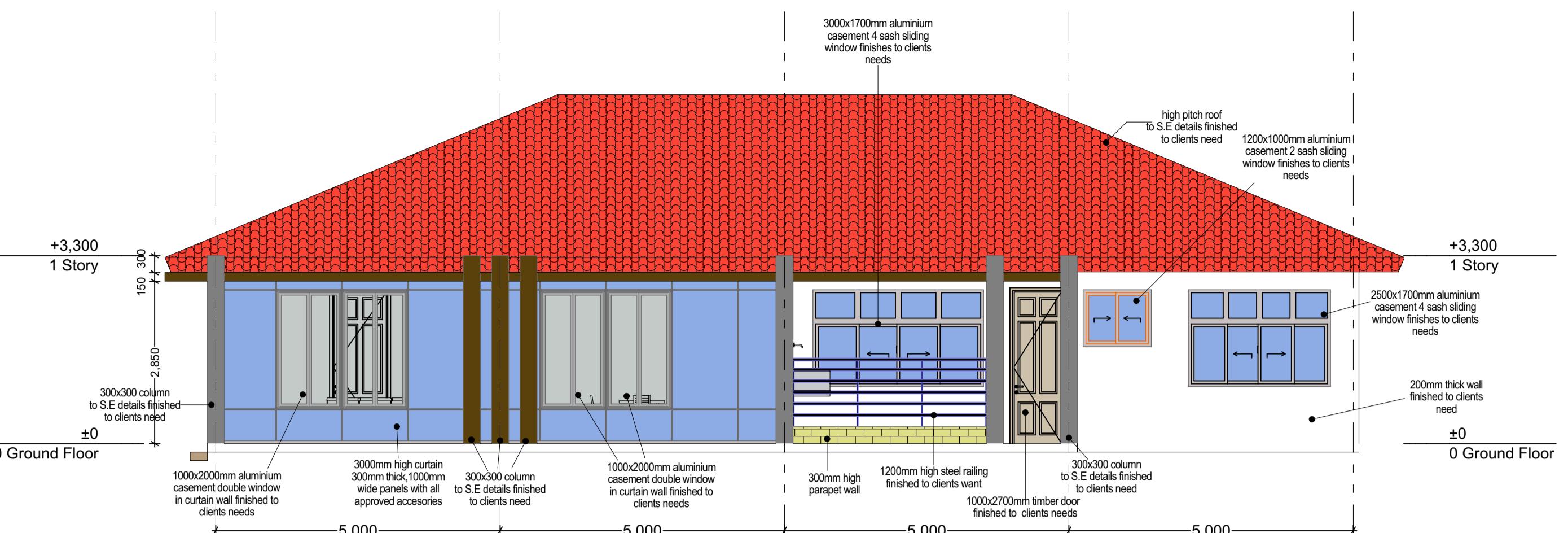
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E-0

Elevation

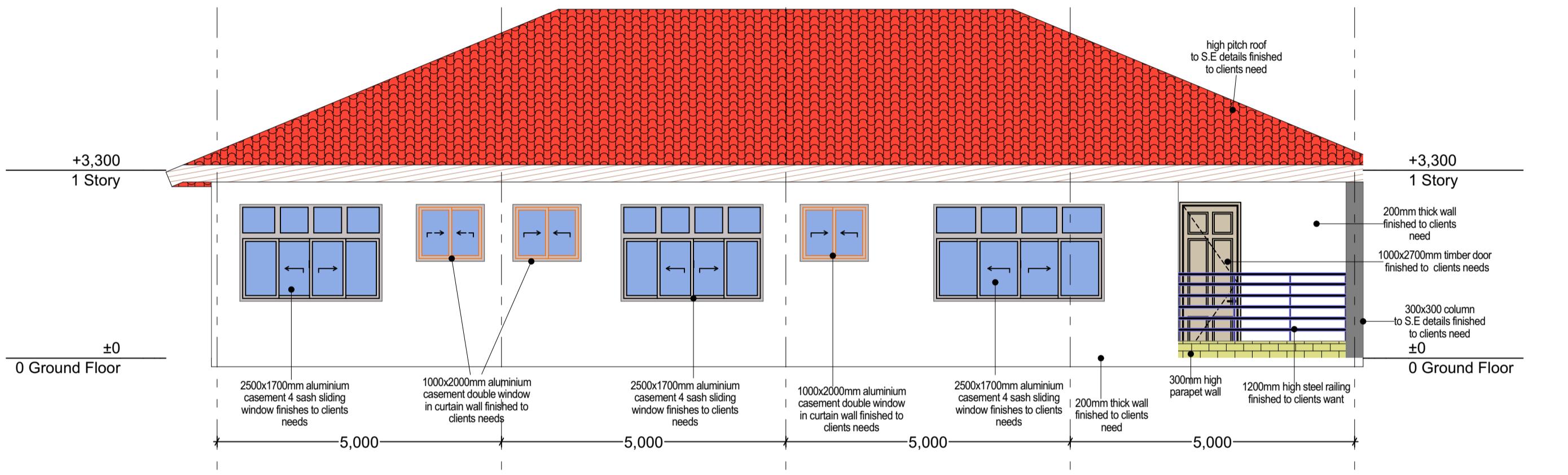
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E-03

Elevation

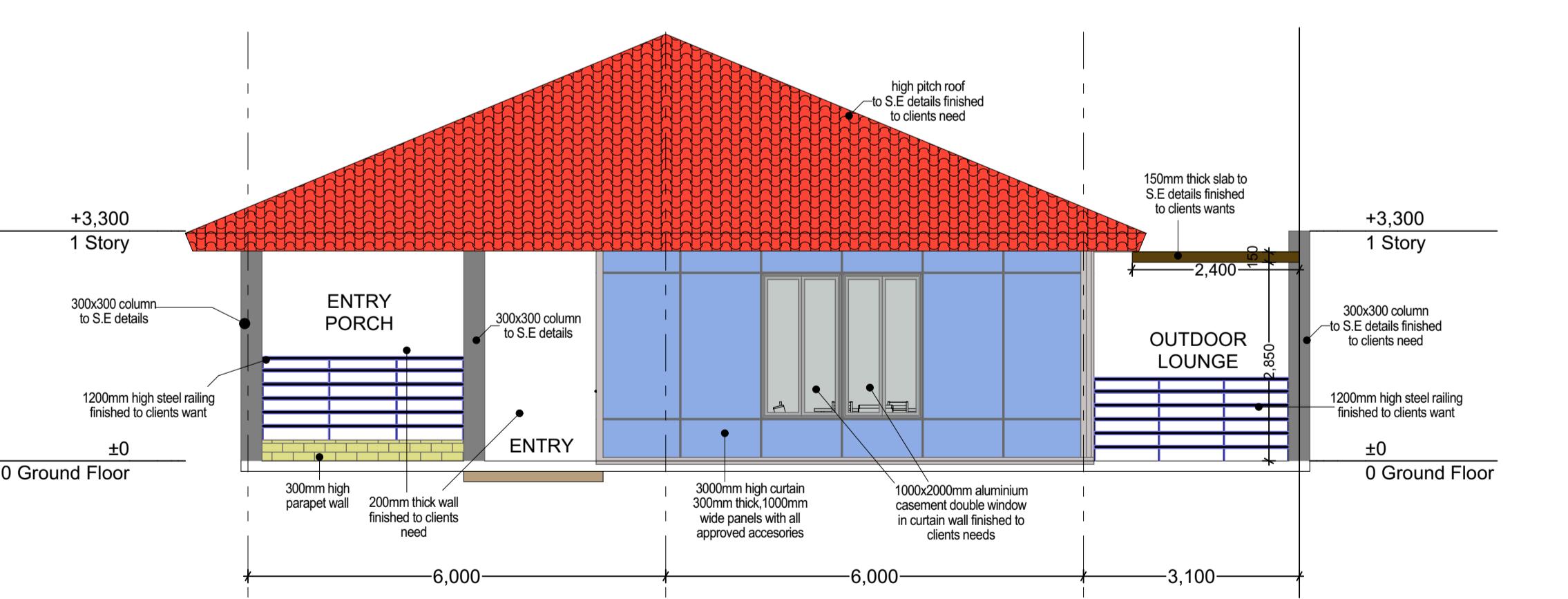
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E-02

Elevation

75

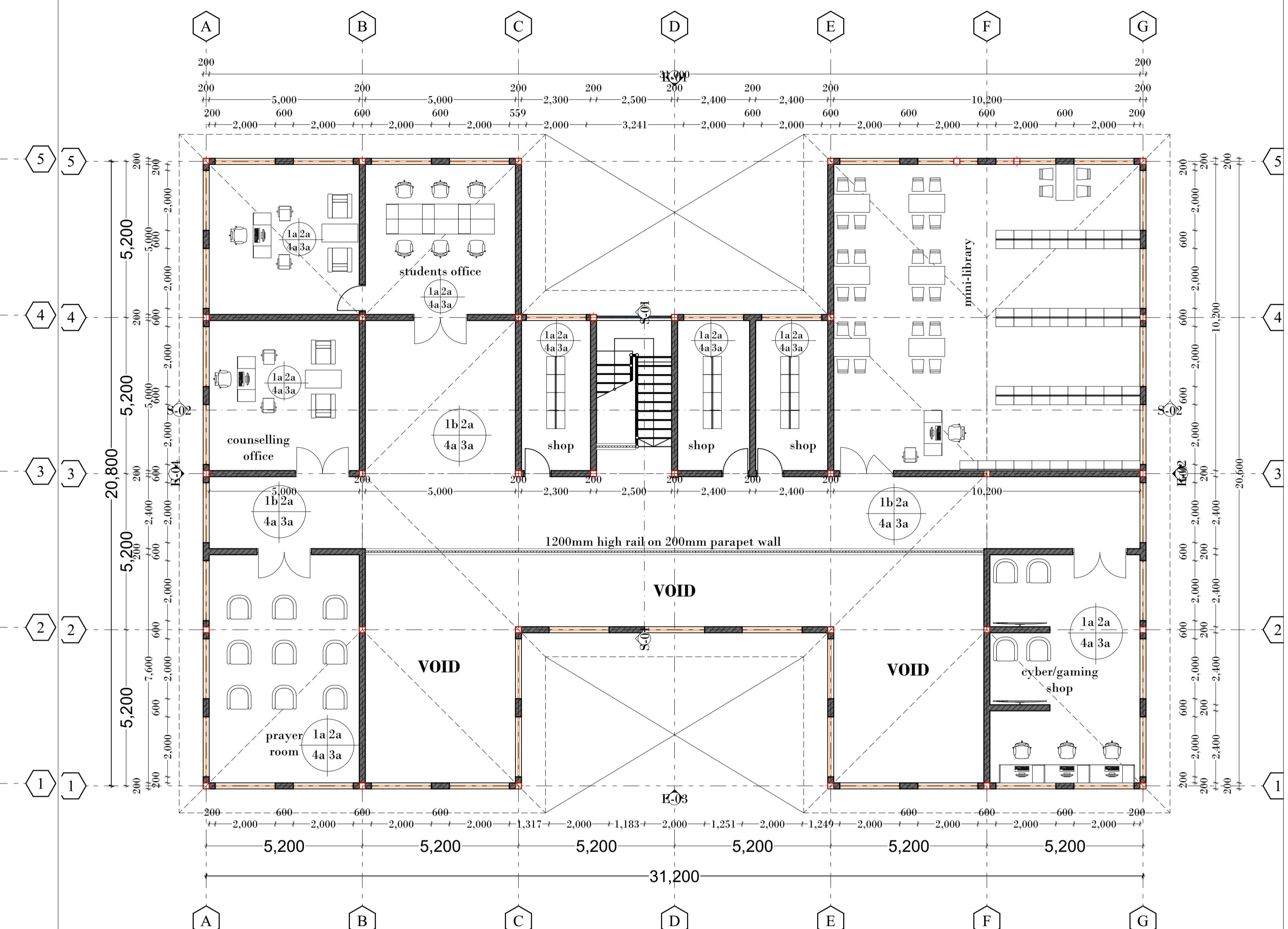


E-04

Elevation

5

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			NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: THE FORUM	DR. ARCH RALWALA	INTERGRATED DESIGN STUDIO	
			1							
			2				DRAWING TITLE: PLANS, SECTIONS & ELEVATIONS -CARETAKER	ENG. YINAM		
			3							
			4							
			5				CLIENT:THE UNIVERSITY OF NAIROBI	B76/4701/2020	COURSE CODE: BCM 413	
										



A-001

GROUND FLOOR

1:100 A-002

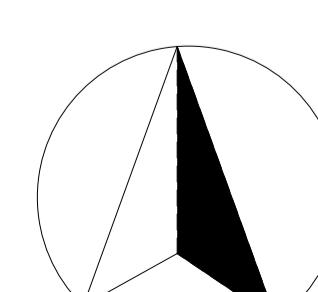
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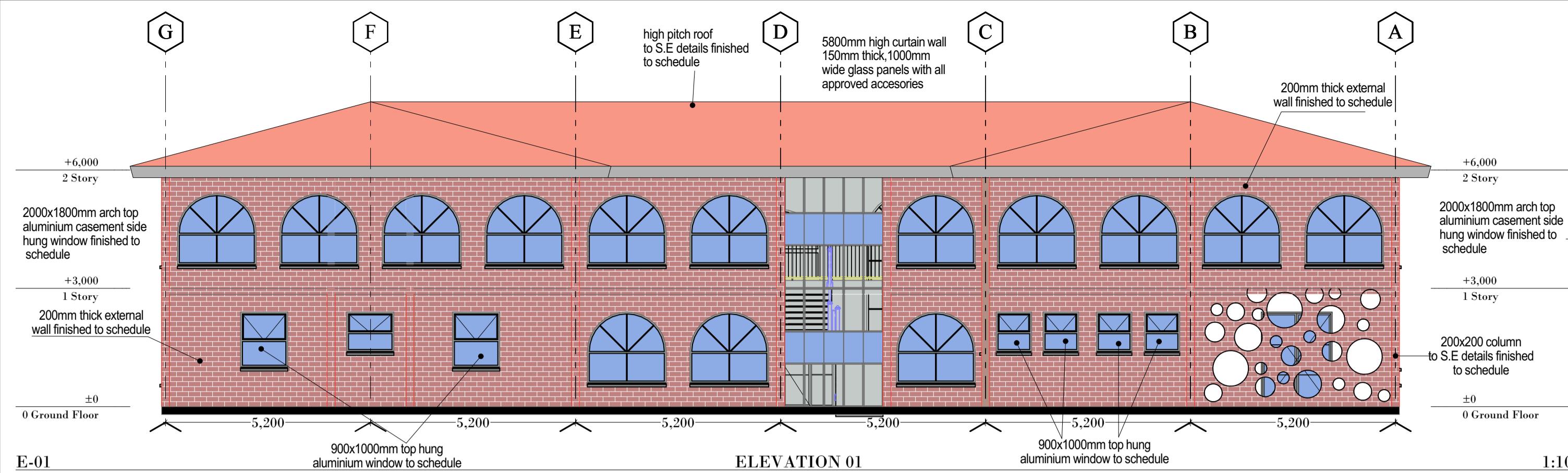
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REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: PLANS, ELEVATIONS, SECTIONS-STUDENT CENTRE	OKOTH DAVIS REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED	DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YINAM QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	COURSE CODE: BCM 410
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ELEVATION 01

This architectural cross-section diagram illustrates the internal layout and construction details of a building across three floors. The diagram includes labels for various rooms and sections, along with detailed descriptions of the materials and finishes used in specific areas.

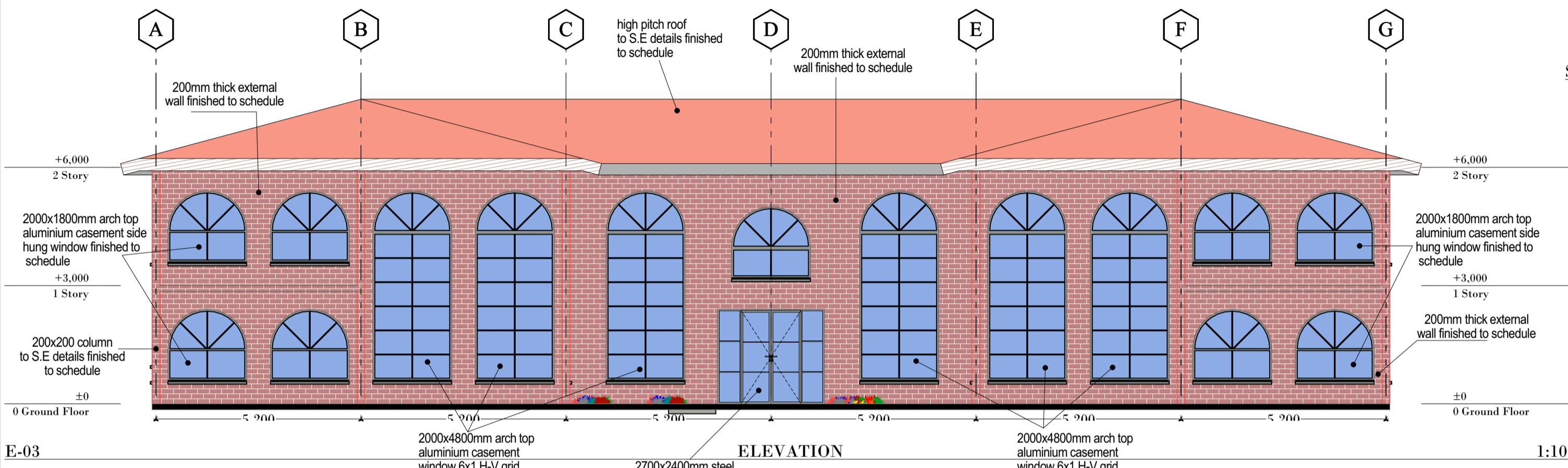
Rooms and Areas:

- Ground Floor:** Kitchen, break room, lounge, lounge, lounge.
- First Floor:** Students office, shop, shop, shop, library.
- Roof:** students office, shop, shop, shop, library, lounge, lounge, lounge.

Structural and Material Details:

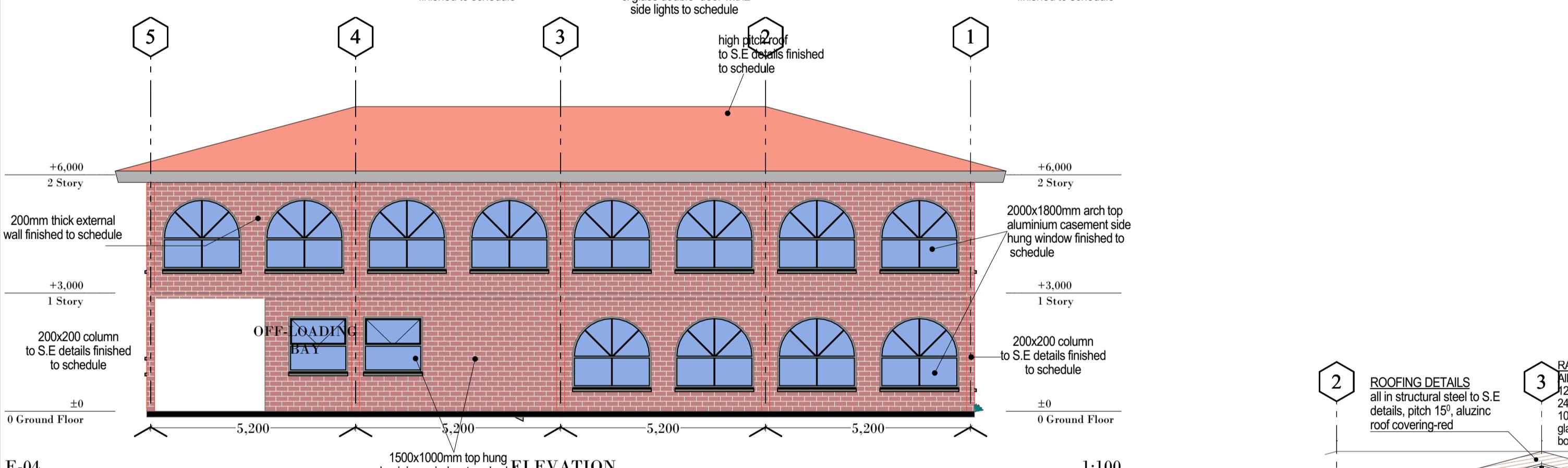
- Section A:** 000x1800mm aluminium casement arch top, 2 side hung window with transom finished to schedule.
- Section B:** 1500x2400mm steel & glass double door finished to schedule.
- Section C:** 1200x1200x600mm pad footing to S.E details.
- Section D:** 3000mm high curtain 150mm thick, 1000mm wide glass panels with all approved accessories.
- Section E:** ROOFING DETAILS all in structural steel to S.E details, pitch 15°, aluzinc roof covering-red.
- Section F:** well compacted back fill ready to receive gravel.
- Section G:** 150MM thick RCC slab to SE details on well compacted murram and dust fill treated with anti termite.
- Foundation:** precast hollow drainage block 600x600x600 to
- Roof:** 200x600 beam to S.E details finished to schedule.
- Slab:** 150mm rcc slab to S.E details finished to schedule.
- Drainage:** precast hollow drainage block 600x600x600 to

STUDENT CENTRE SECTION



ELEVATION

2400mm steel
double door with?



SECTION DETAILS

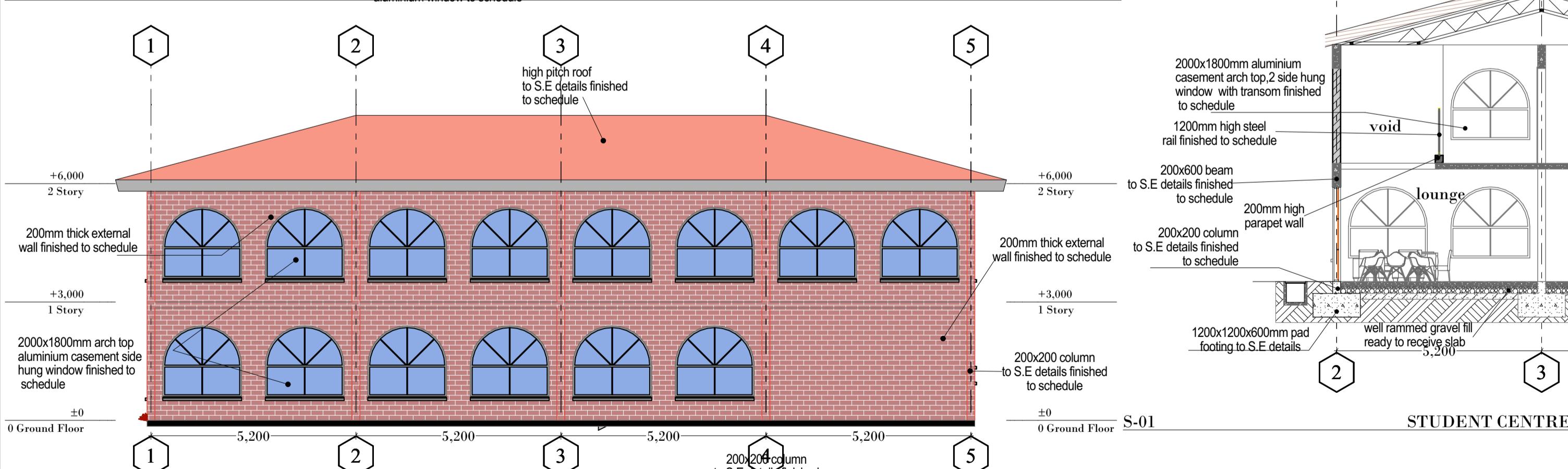
stainless steel
mm high 40D top rail from FFL
posts ending parallel to slope
mm high 10D balusters ending parallel to slope
panes with aluminium fixing offset 50mm from
top rail and FFL.

4

FALL

S-02 **E-04** **S-01** **E-02**

—
—
—



200x200 column
to S E details finished

SECTION

ECTION

ROOF PLAN

1:100

1:100

3000mm high curtain wall
150mm thick, 1000mm wide glass panels with all approved accessories

150MM thick RCC slab to SE details on well compacted murram and dust fill treated with anti termite

well rammed rubble fill ready to receive gravel

well compacted back fill ready to receive gravel and rubbles

1,315

4,500

185

A-003

4

15⁰

E-03

31,200

B

C

D

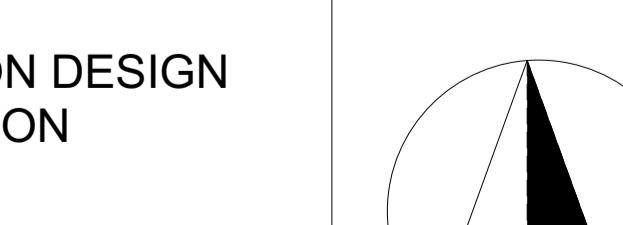
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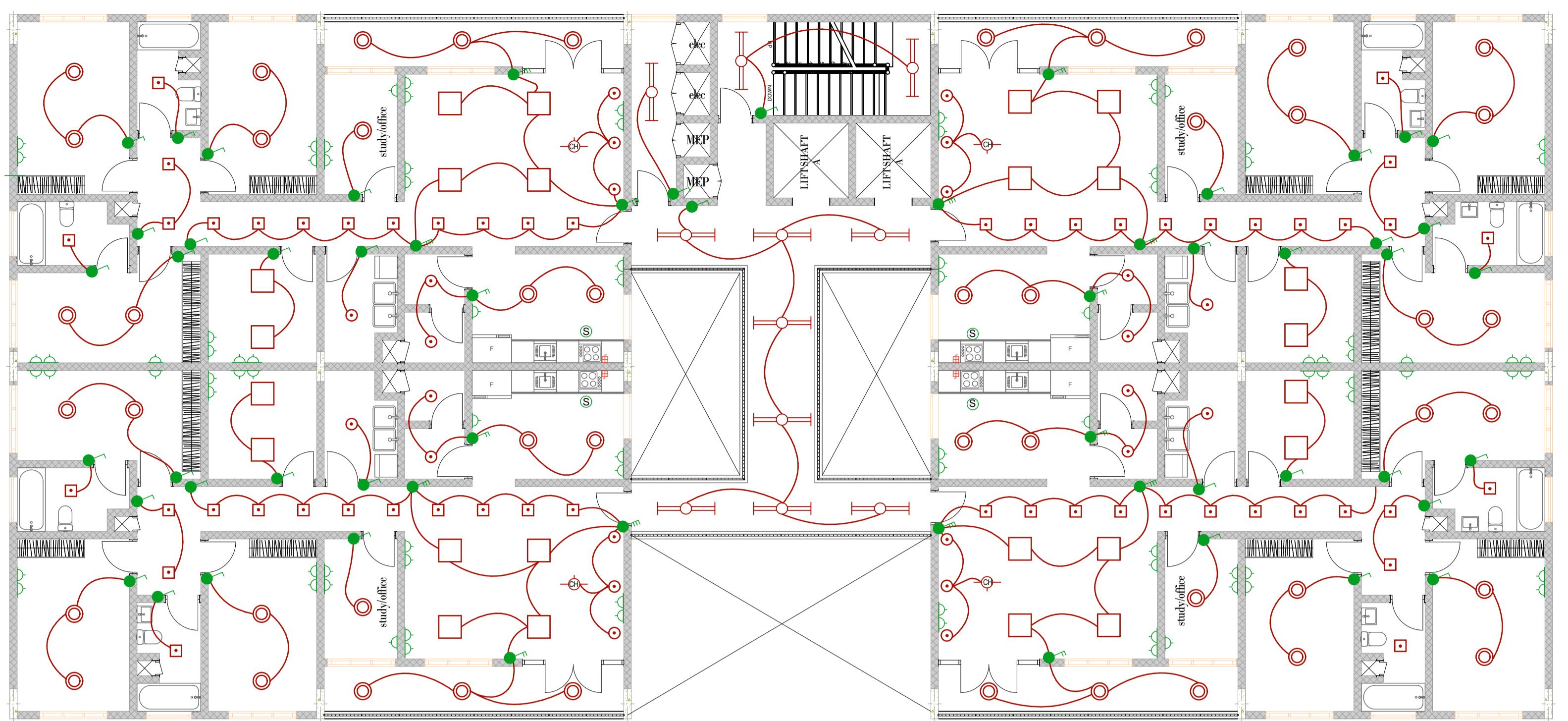
F

G

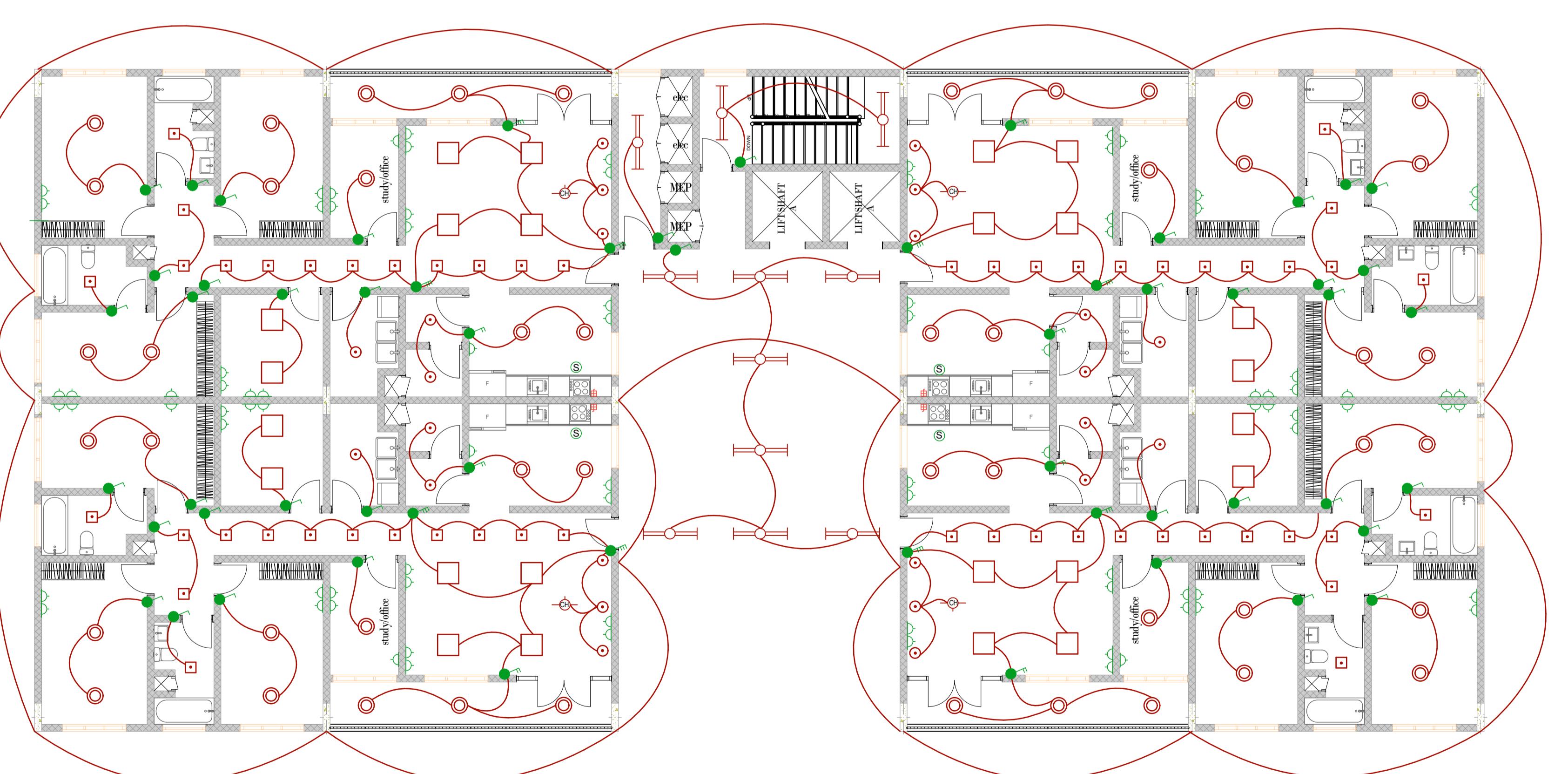
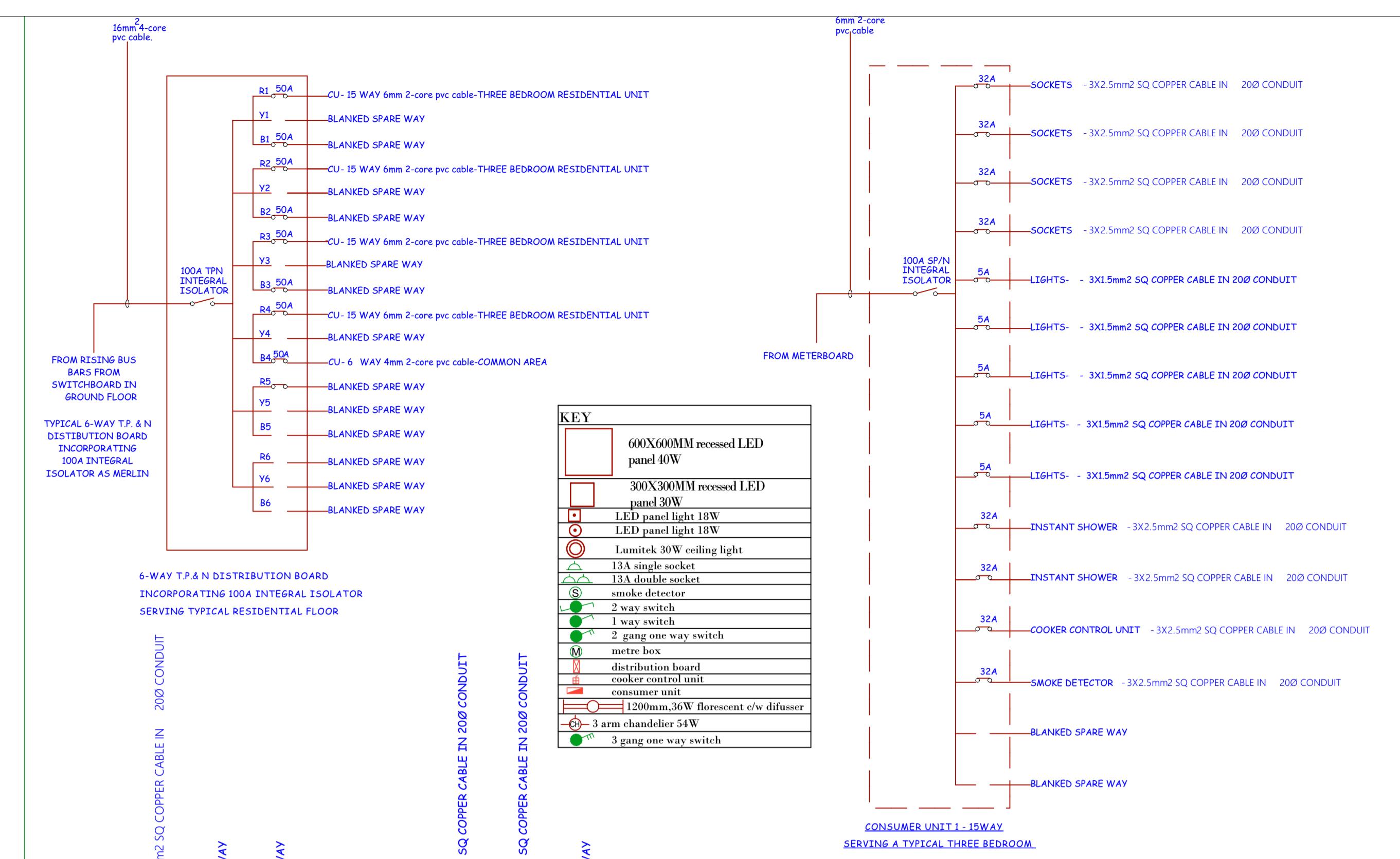
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BÖHME

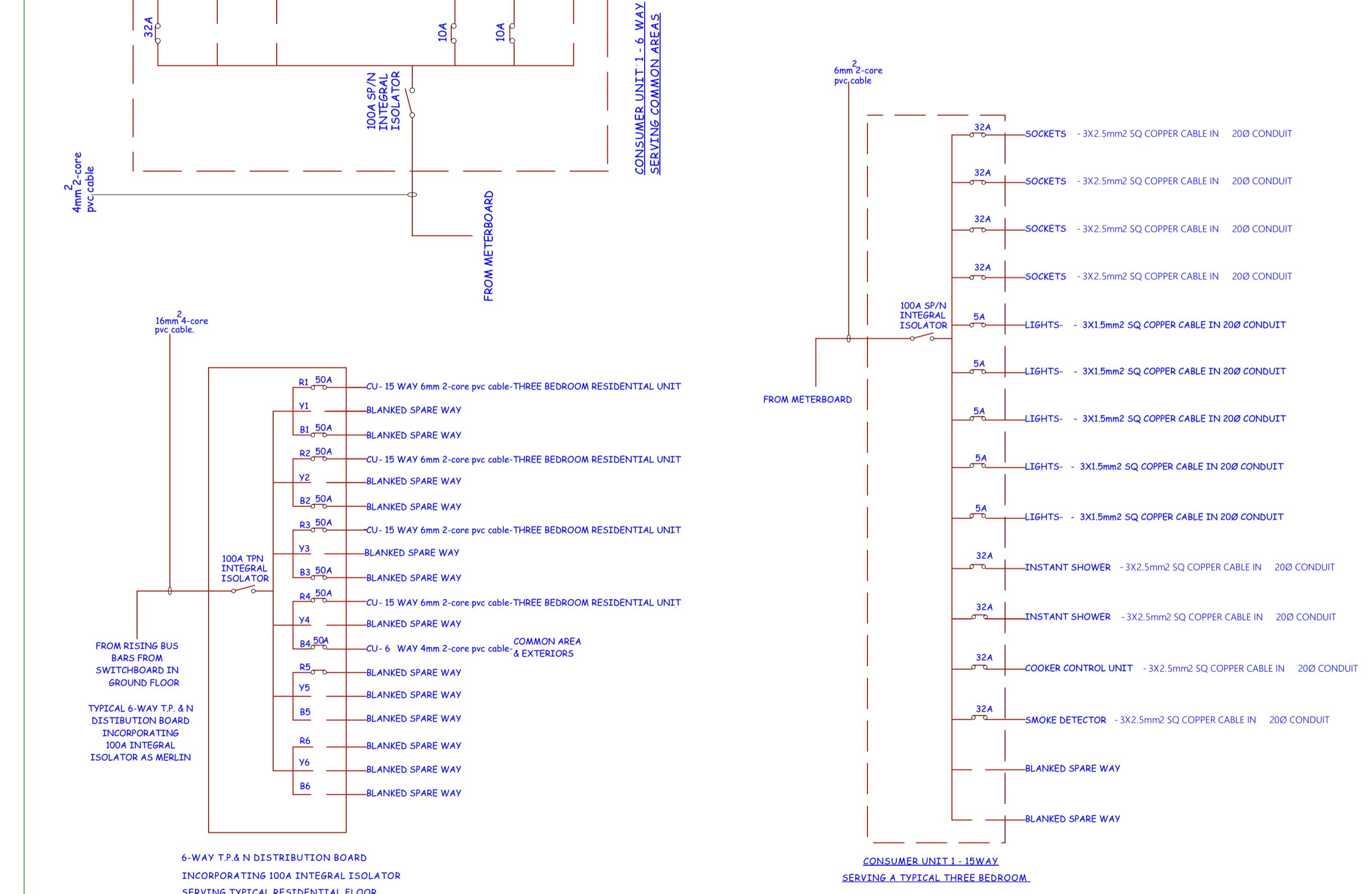
E-02	ELEVATION		1:100					
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NO	DATE	DESCRIPTION	CHECKED BY	<p>PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C</p> <p>OKOTH DAVIS</p> <p>DR. KIVINDU</p> <p>DRAWING TITLE: PLANS, ELEVATIONS, SECTIONS-STUDENT CENTRE</p> <p>REGISTRATION NUMBER:</p>		DR. ARCH RALWALA	<p>CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO</p>	
1						DR. KARIUKI		
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3				DR. KARIUKI	ENG. YINAM			
4				QS. MULAKU	B76/4701/2020	COURSE CODE: BCM 410		
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1ST FLOOR ELECTRICAL PLAN

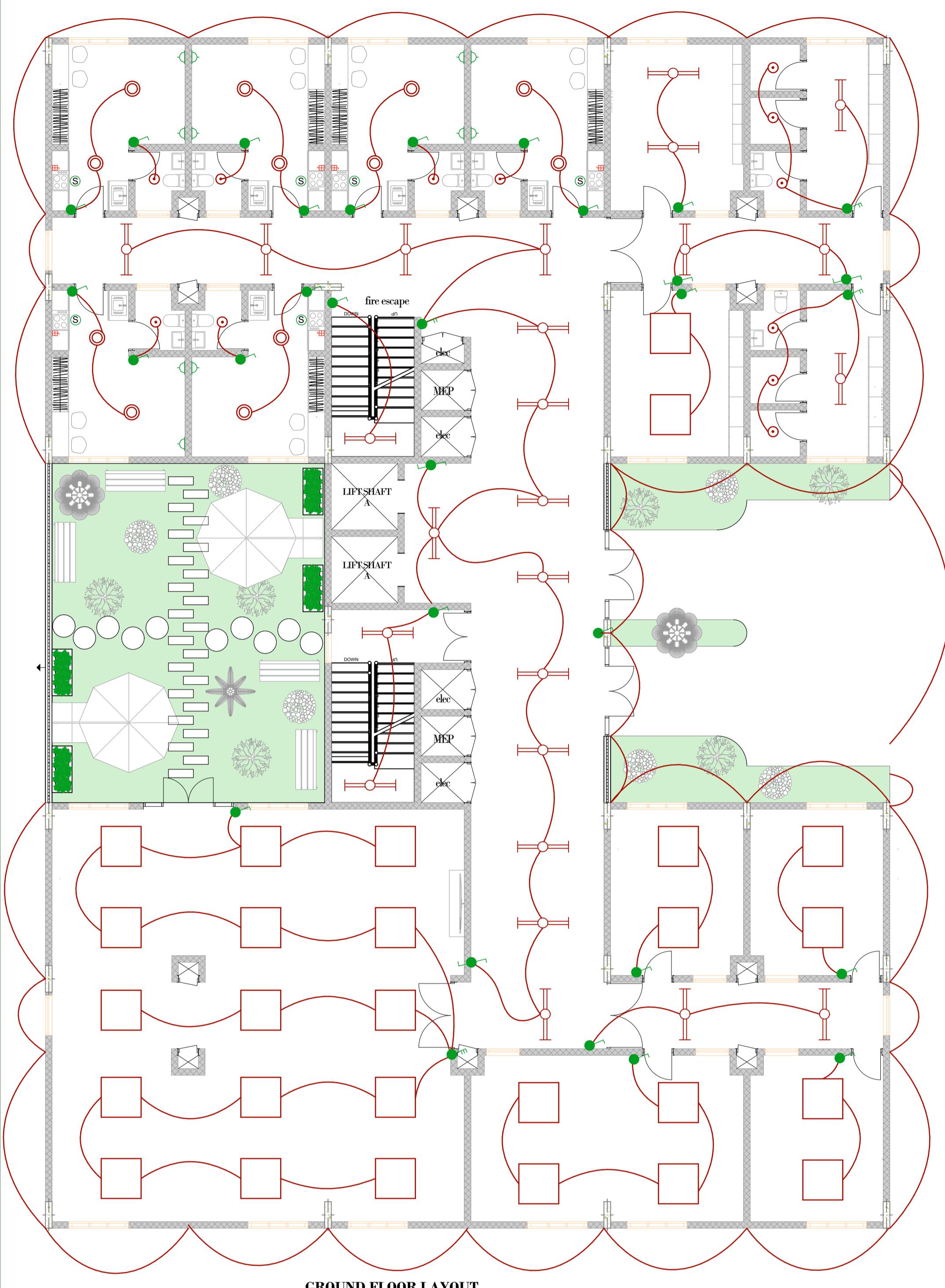


GROUND FLOOR ELECTRICAL PLAN



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		1			DR. ARCH RALWALA OKOTH DAVIS DR. KIVINDU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	
		2			DR. KARIUKI ENG. YINAM	DRAWING TITLE: ELECTRICAL PLANS & SCHEMATIC STAFF RESIDENCE	
		3			QS. MULAKU	CLIENT: AZUL TRADING LIMITED	COURSE CODE: BCM 410
		4			B76/4701/2020		
		5					





GROUND FLOOR LAYOUT

KEY	
	600X600MM recessed LED panel 40W
	300X300MM recessed LED panel 30W
	LED panel light 18W
	LED panel light 18W
	Lumitek 30W ceiling light
	13A single socket
	13A double socket
	smoke detector
	2 way switch
	1 way switch
	2 gang one way switch
	metre box
	distribution board
	cooker control unit
	consumer unit
	1200mm,36W fluorescent c/w difusser
	3 arm chandelier 54W
	3 gang one way switch

E INDEX 02

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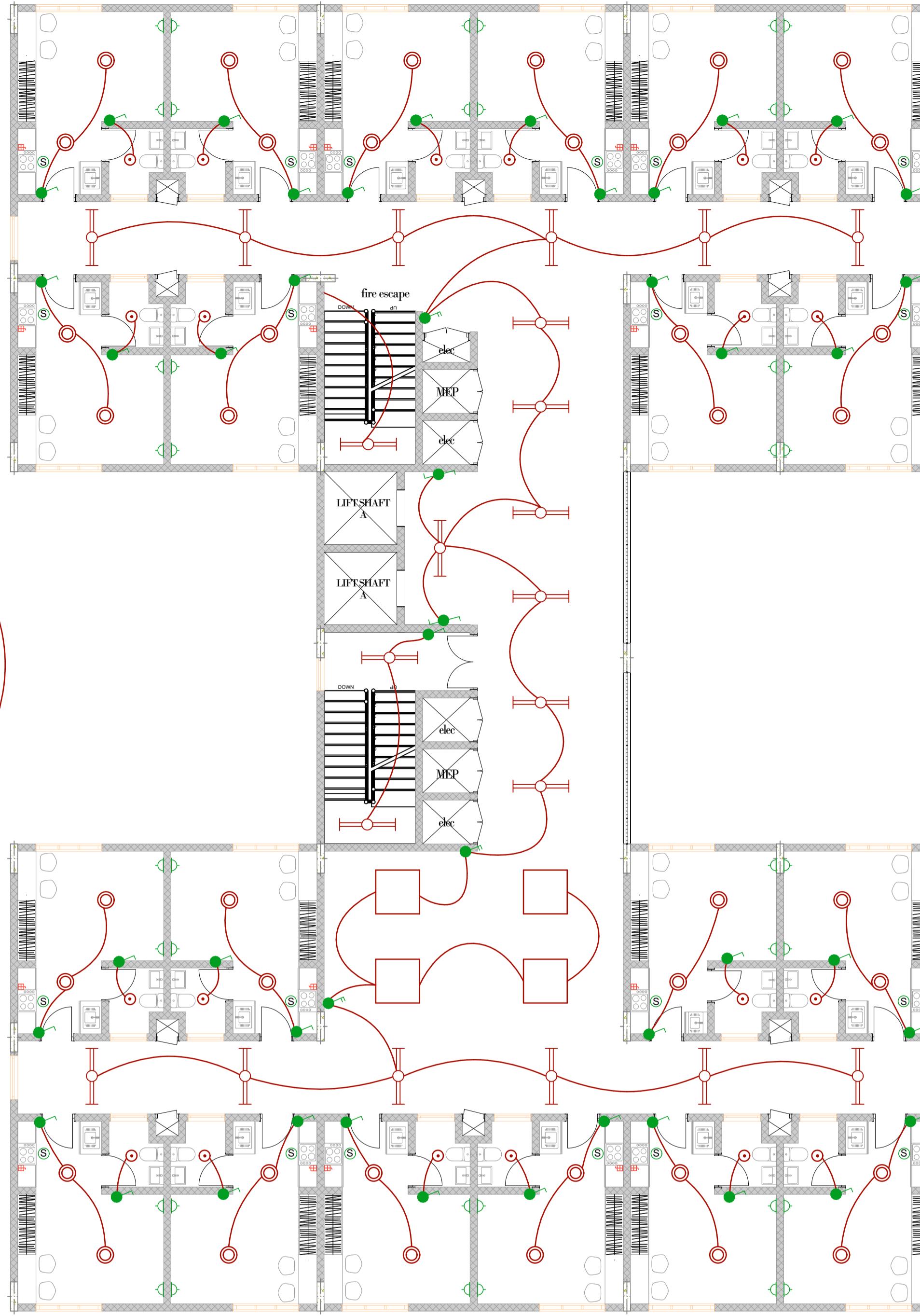
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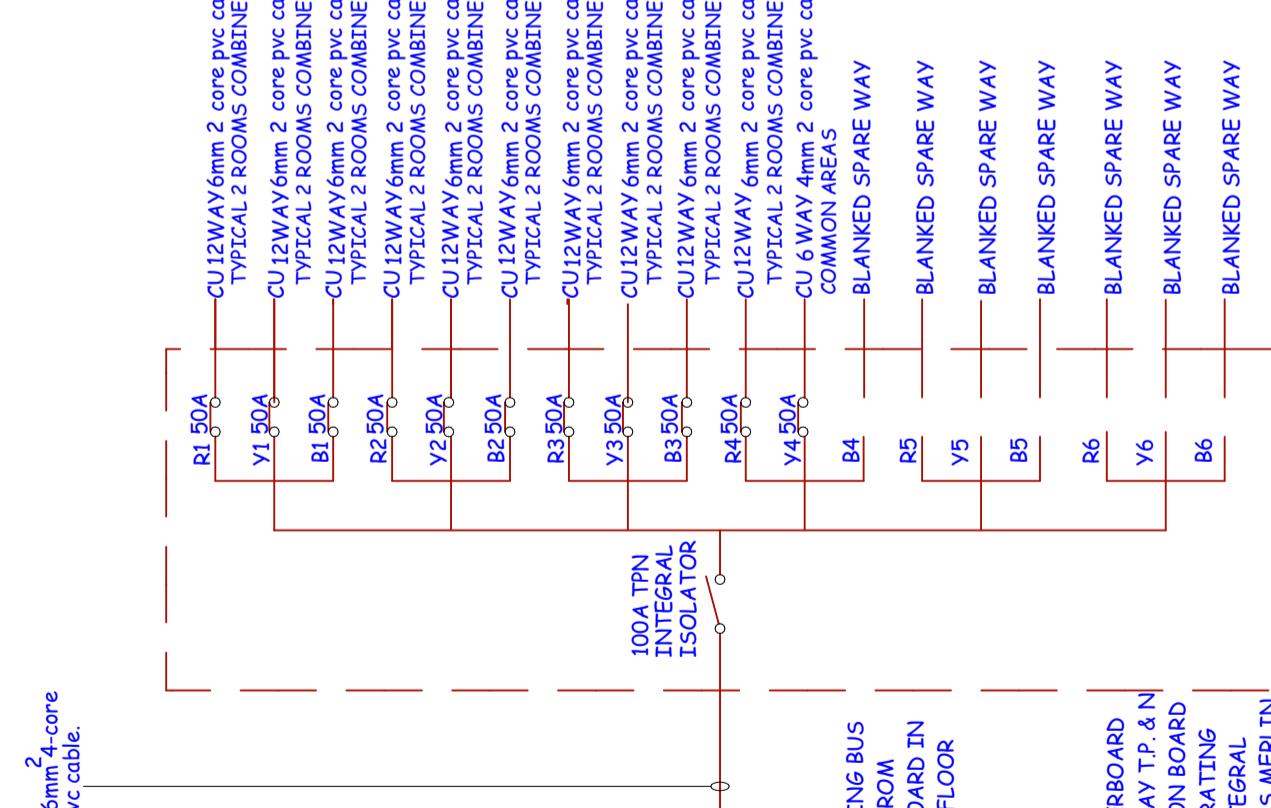
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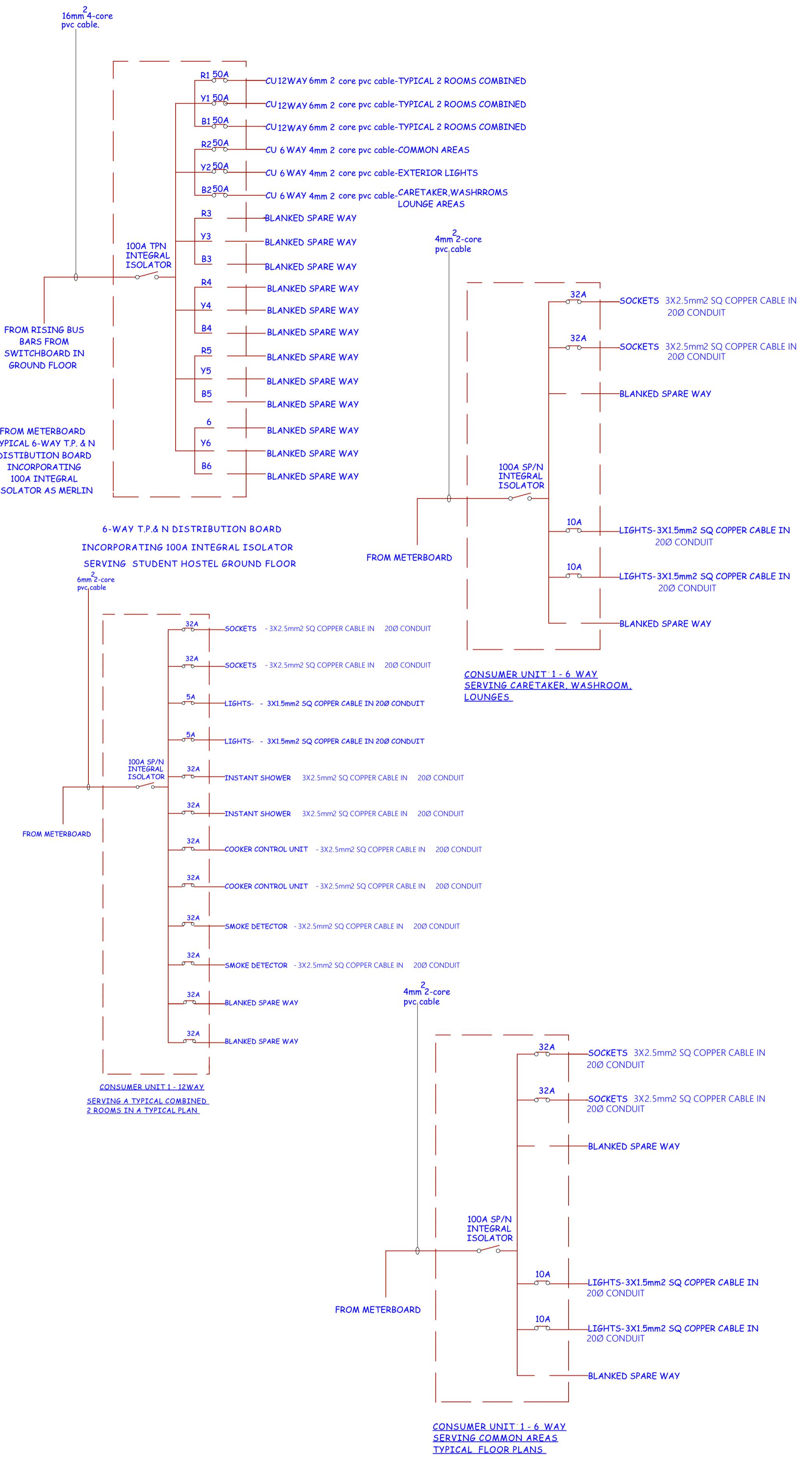
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TYPICAL FLOOR LAYOUT



**6-WAY T.P.& N DISTRIBUTION BOARD
INCORPORATING 100A INTEGRAL ISOLATOR**



CONSUMER UNIT 1 - 6 WAY RVING COMMON AREAS PICAL FLOOR PLANS

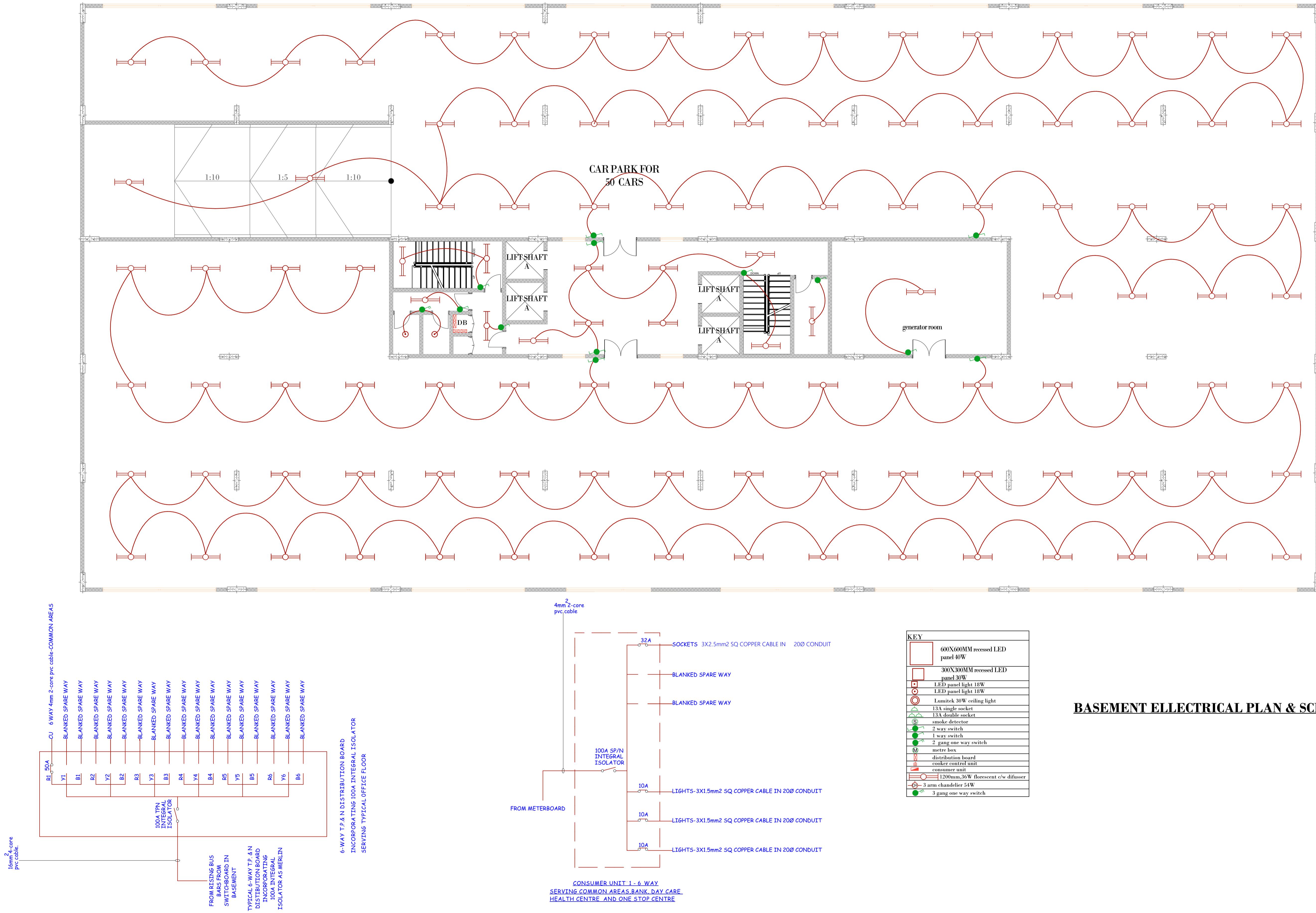
REVISIONS		HOSTEL ELECTRICAL PLANS GF& TYPICAL DATE:14-06-2024	DESIGNED BY
DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C
			DRAWING TITLE: ELECTRICAL PLANS & SCHEMATIC HOSTEL BLOCK
			CLIENT: AZUL TRADING LIMITED
			B76/4701/2020

	CHECKED BY: DR. ARCH RALWALA DR. KIVINDU
NUMBER:	DR. KARIUKI ENG. YINAM OS. MULAKU

COURSE:

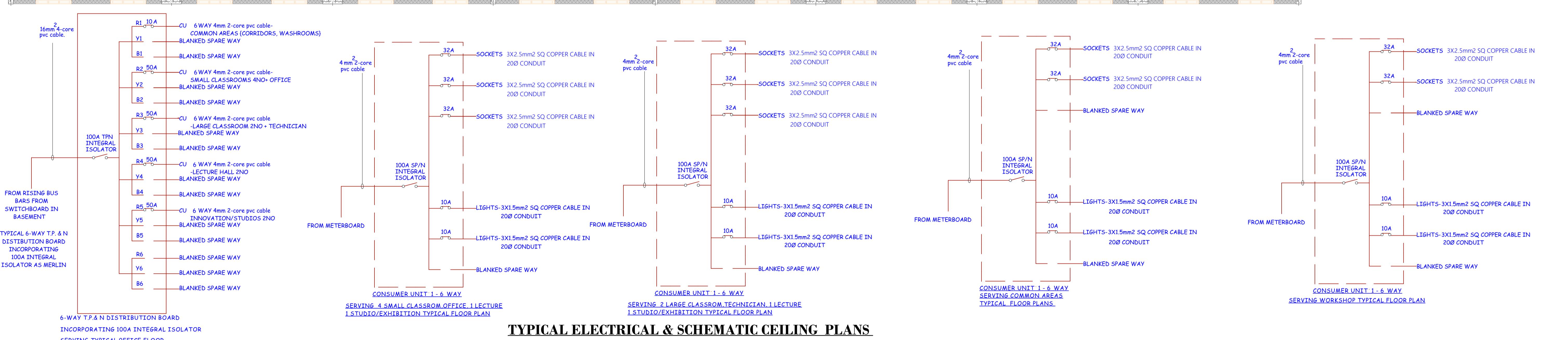
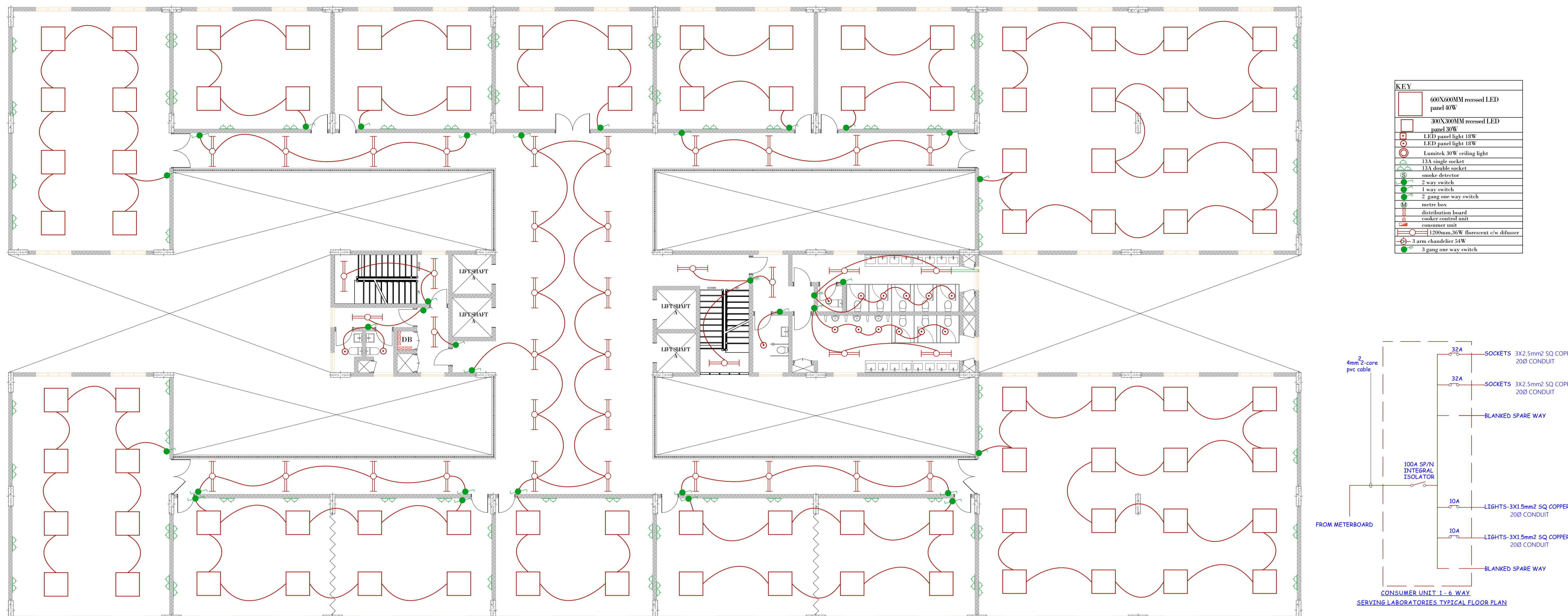
CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO

SCALE-1:100



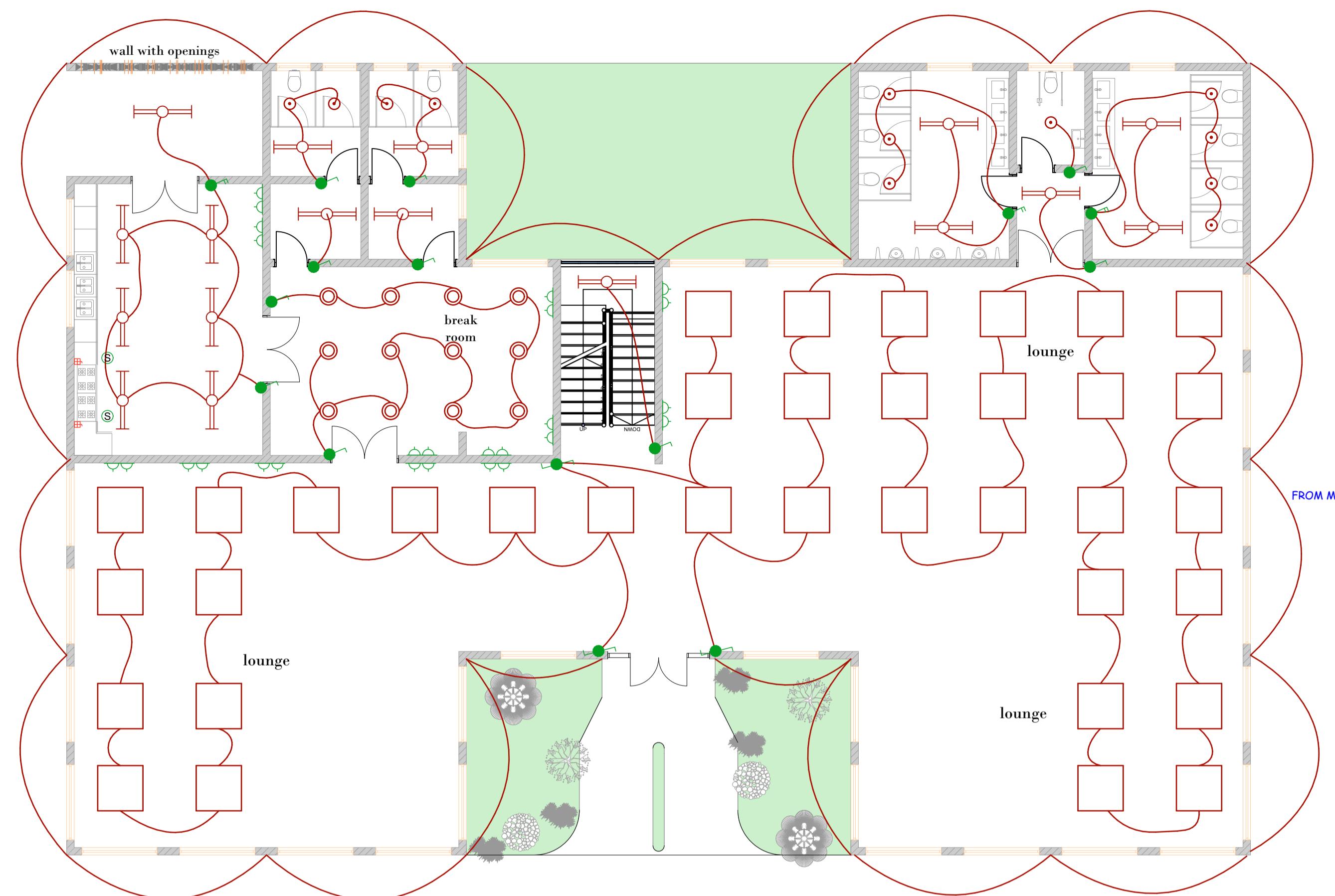
BASEMENT ELECTRICAL PLAN & SCHEMATIC

ELEC-003		ADMIN BLOCK BASEMENT				1:100
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NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	
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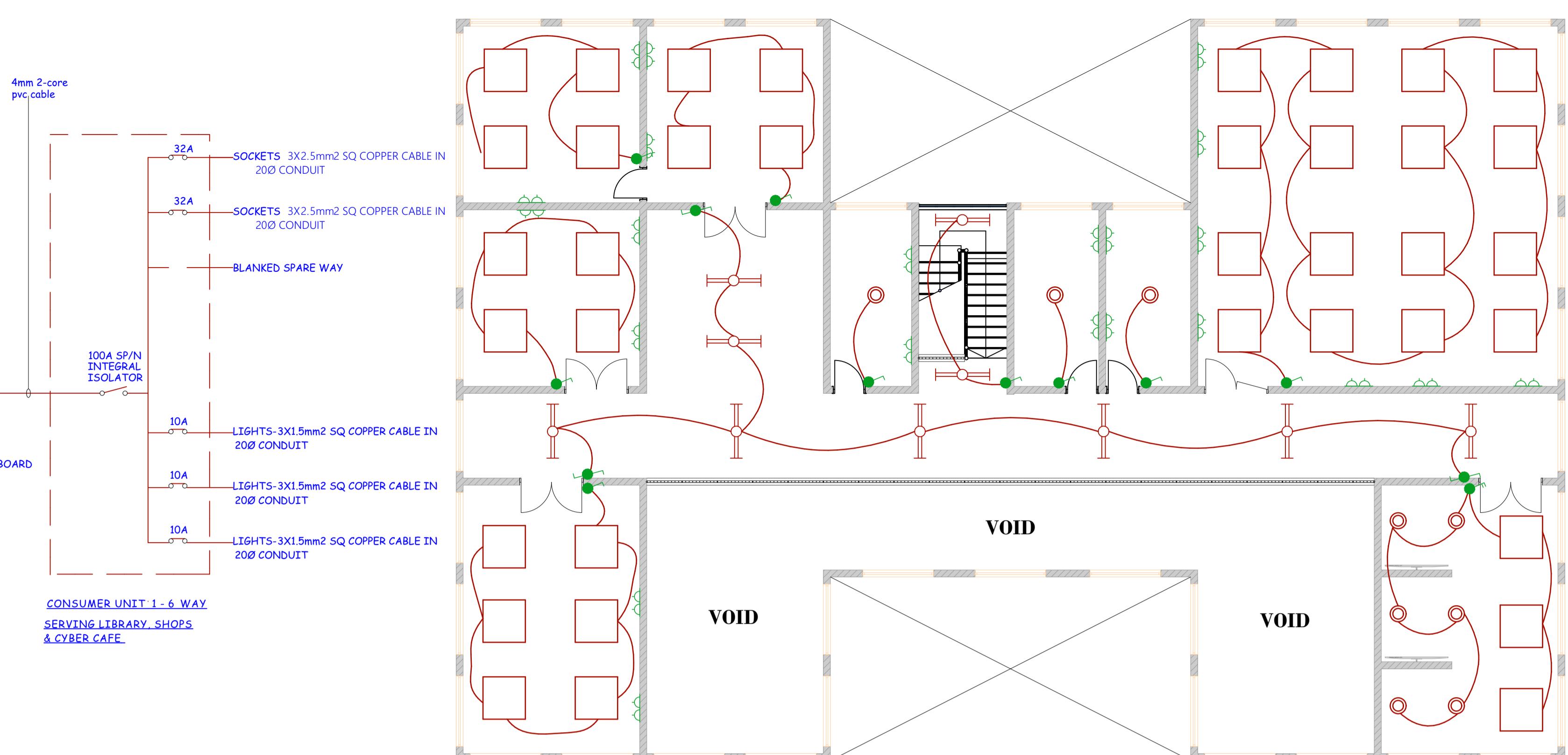
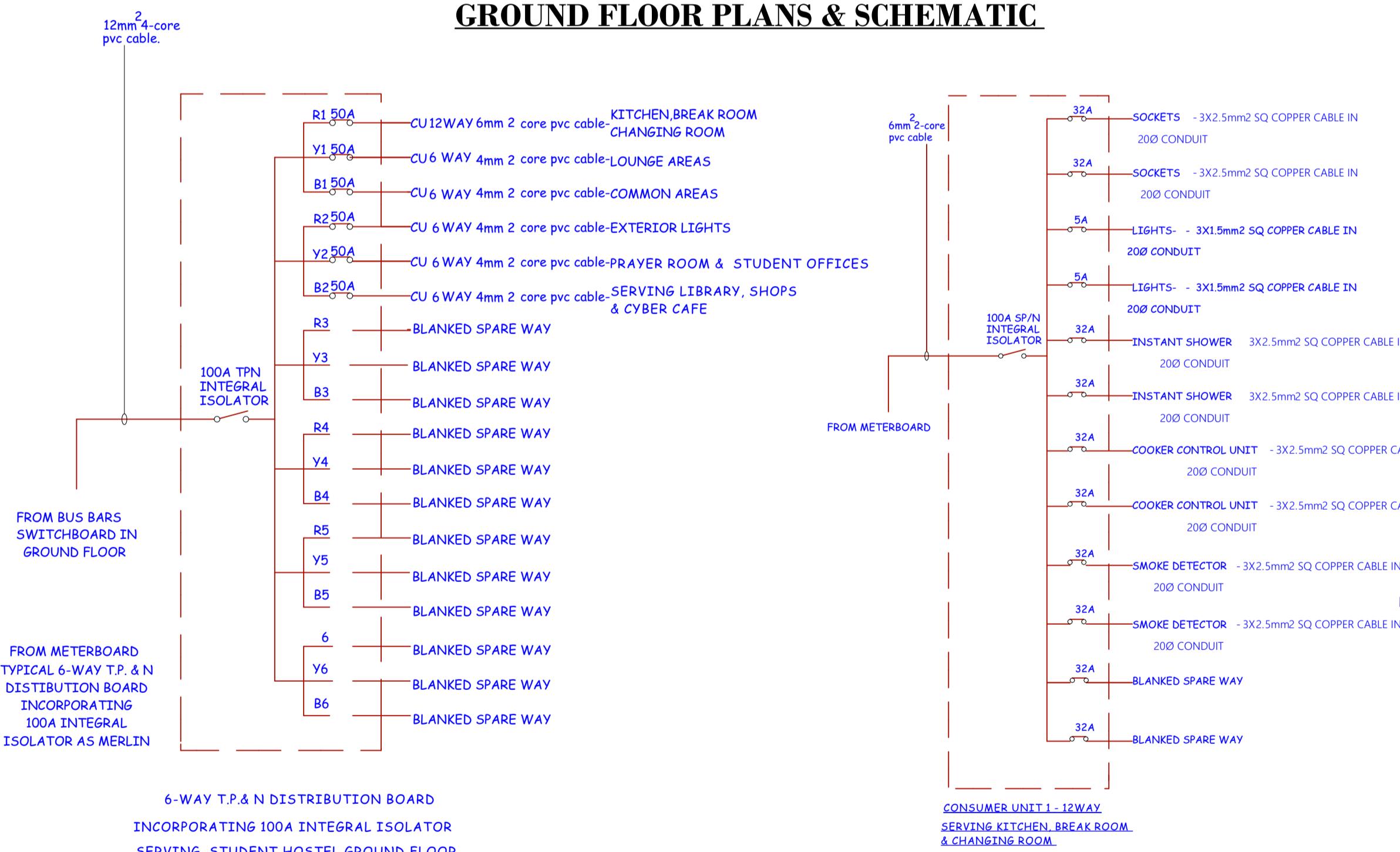


TYPICAL ELECTRICAL & SCHEMATIC CEILING PLANS

ELEC 006		ELECTRICAL				
SERVING TYPICAL OFFICE FLOOR						
1:100						
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NO	DATE	DESCRIPTION	CHECKED BY	SCALE-1:100		
1			DR. ARCH RALWALA			
2			OKOTH DAVIS			
3			DR. KIVINDU			
4			DR. KARIUKI			
5			ENG. YINAM			



GROUND FLOOR PLANS & SCHEMATIC



1ST FLOOR PLANS & SCHEMATIC

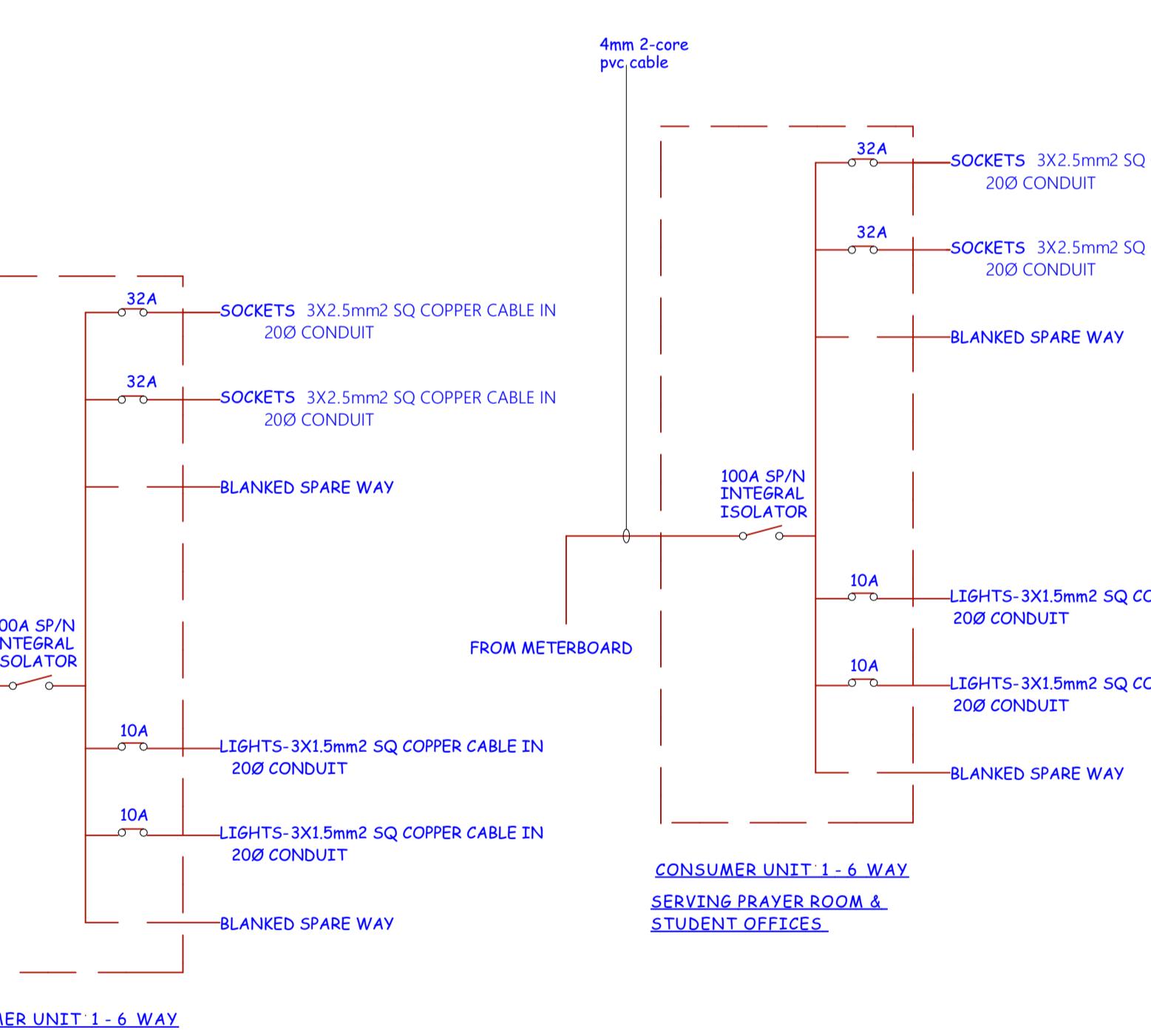
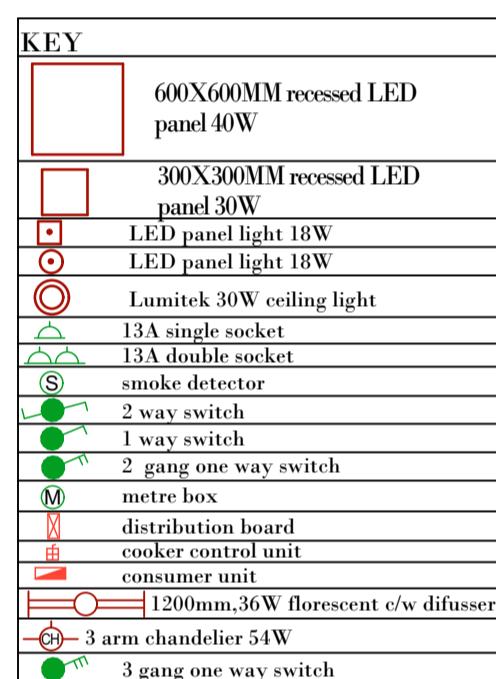
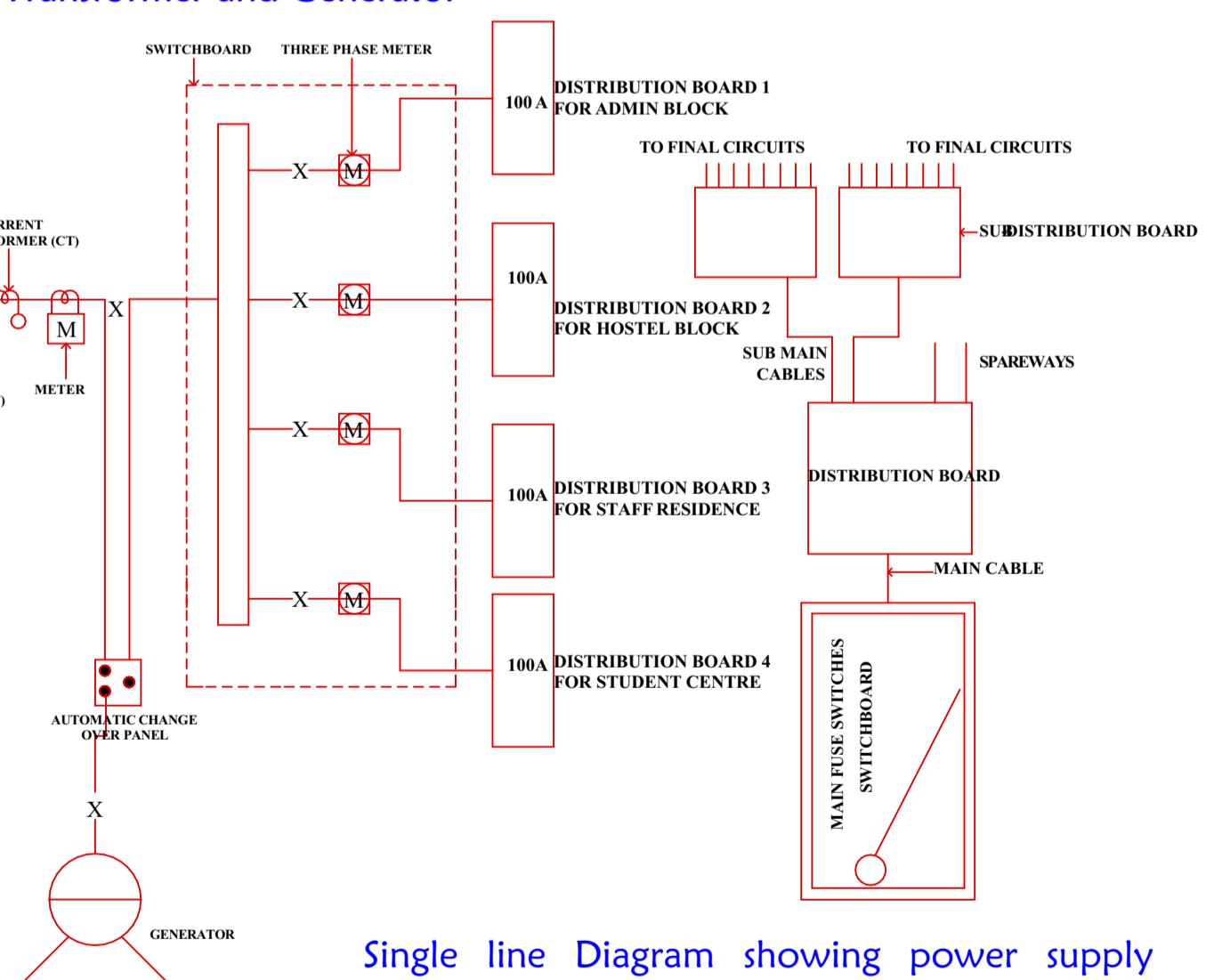


Diagram showing power supply from Transformer and Generator

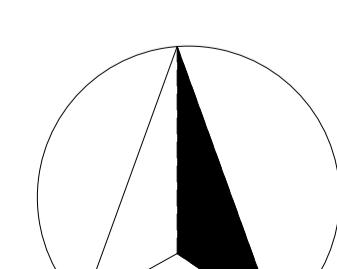


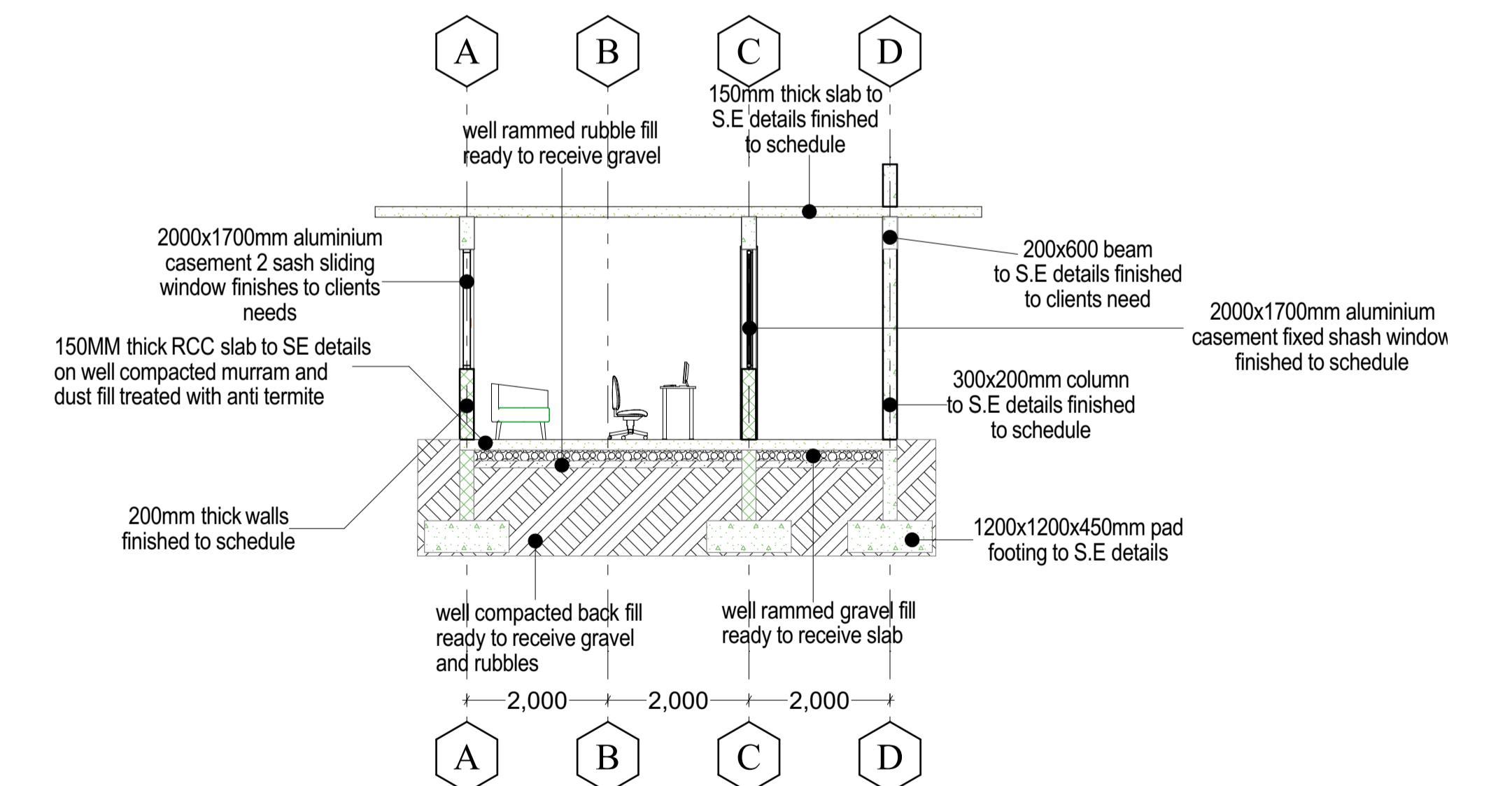
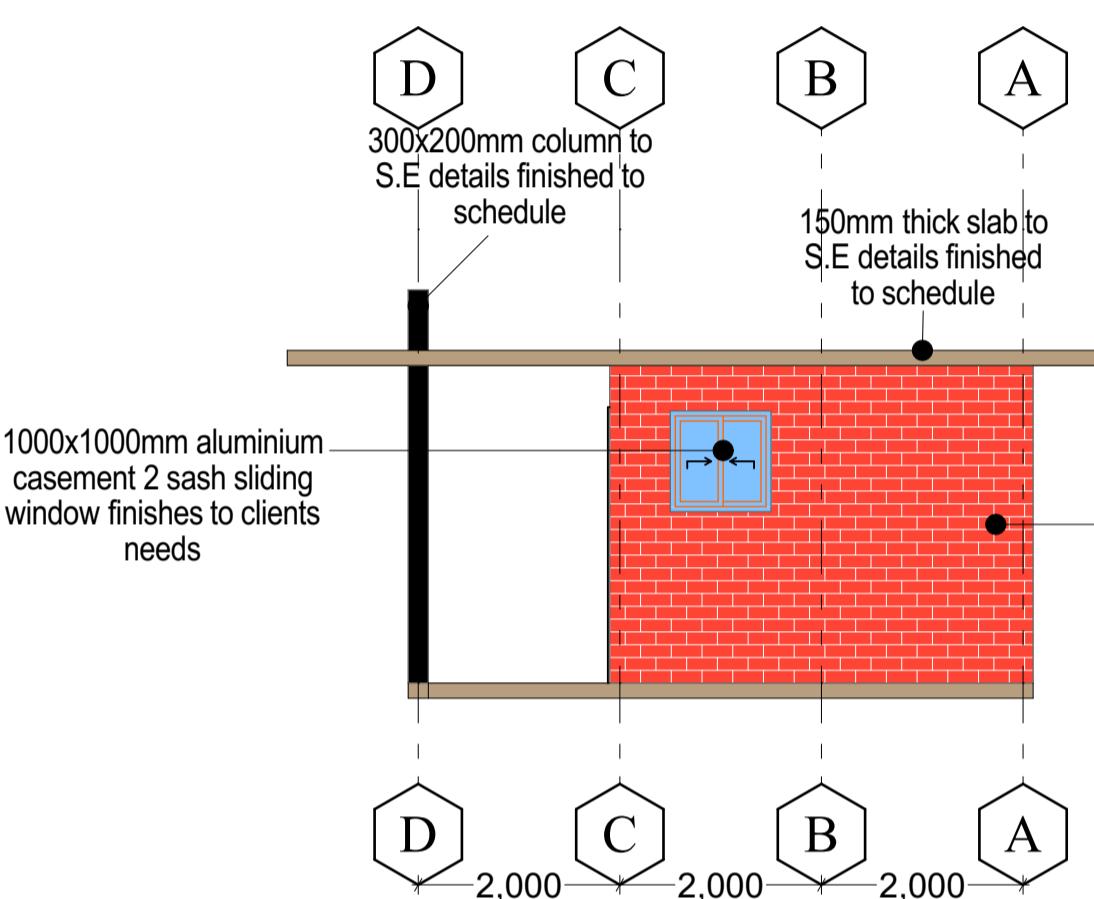
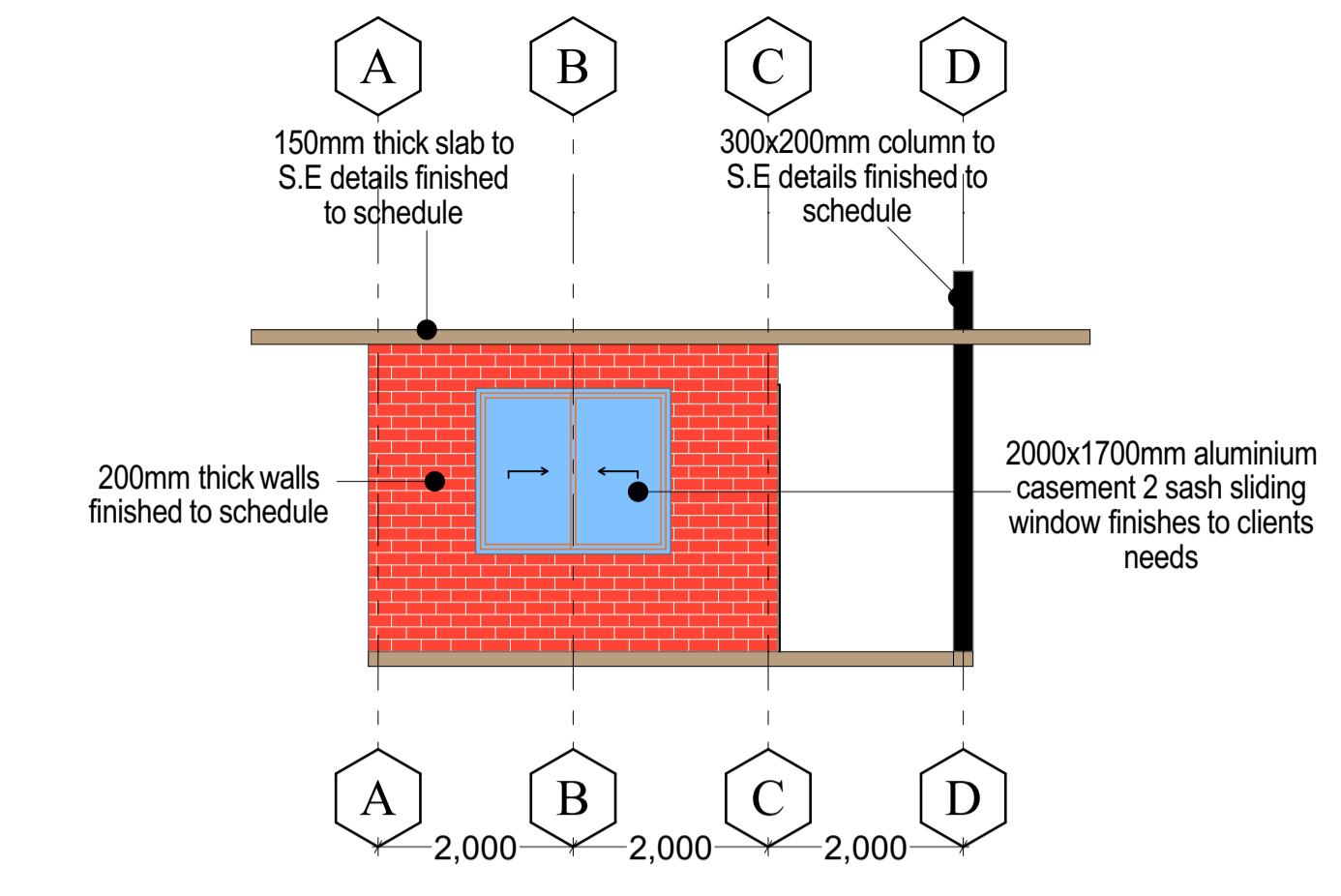
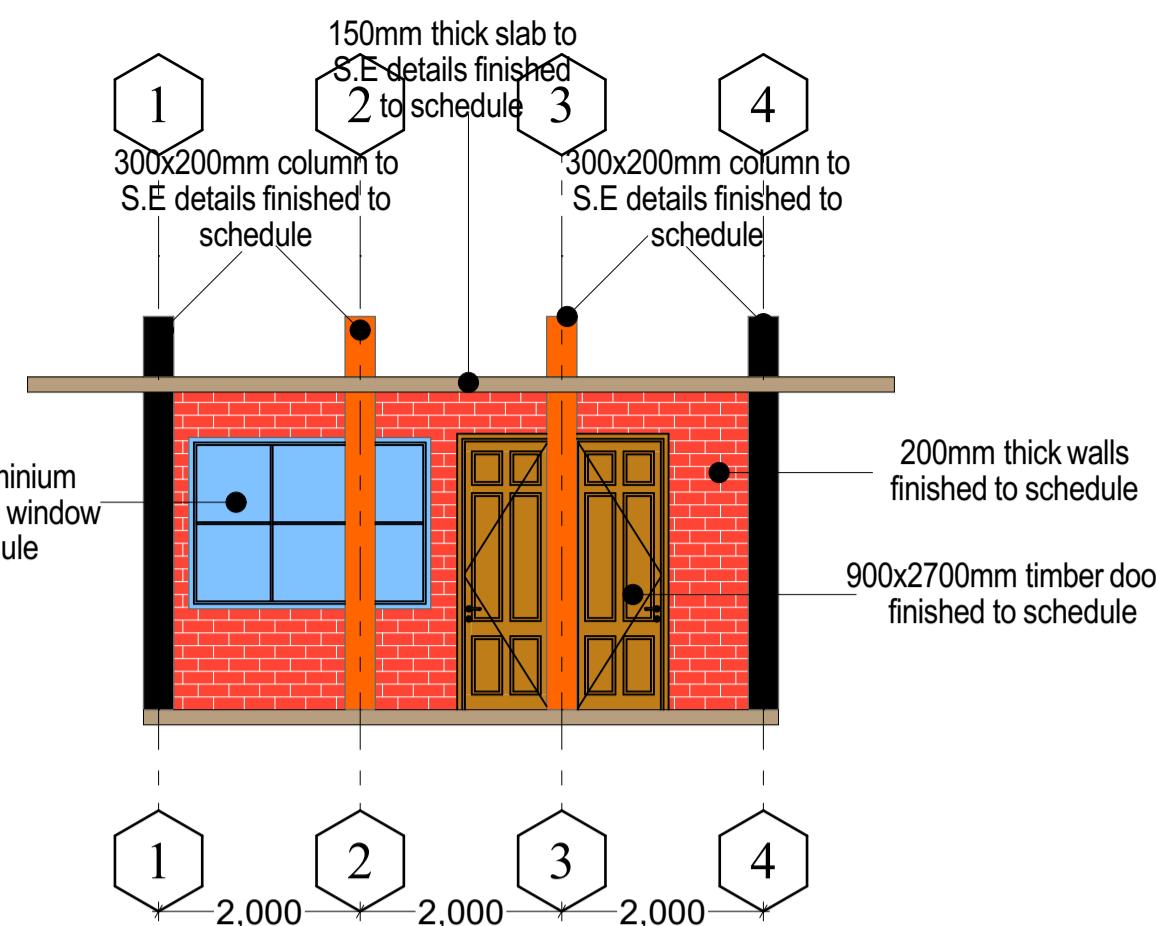
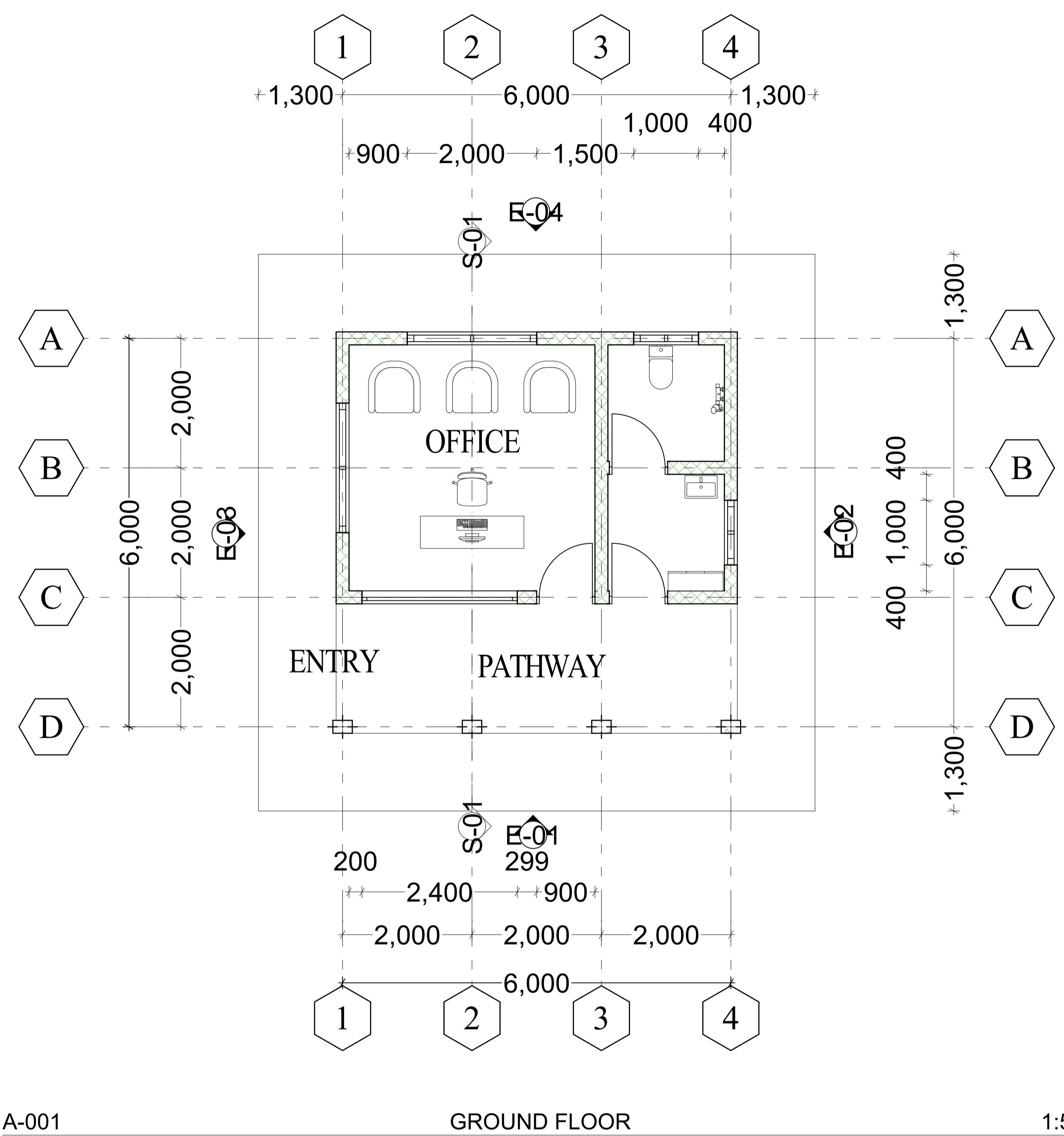
Single line Diagram showing power supply from Distribution Board to Sub-Distribution Boards

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REVISIONS				DATE:14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE-1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: ELECTRICAL PLANS -STUDENT CENTRE REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED B76/4701/2020	OKOTH DAVIS DR. KARIUKI ENG. YINAM QS. MULAKU	DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YINAM QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO COURSE CODE: BCM 410	1:100
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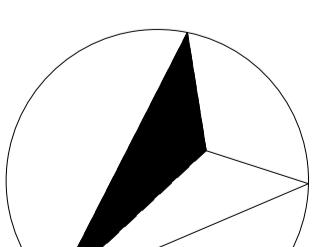
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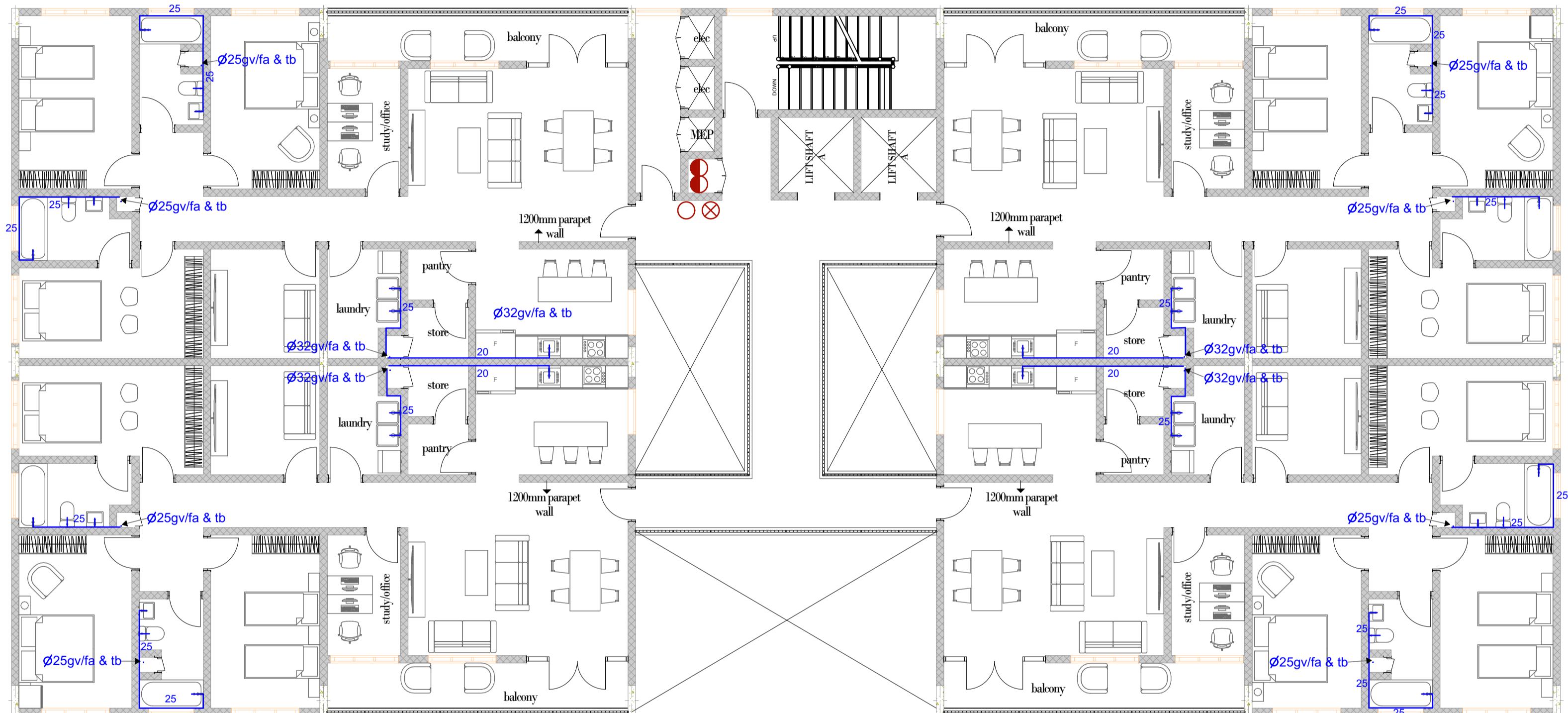
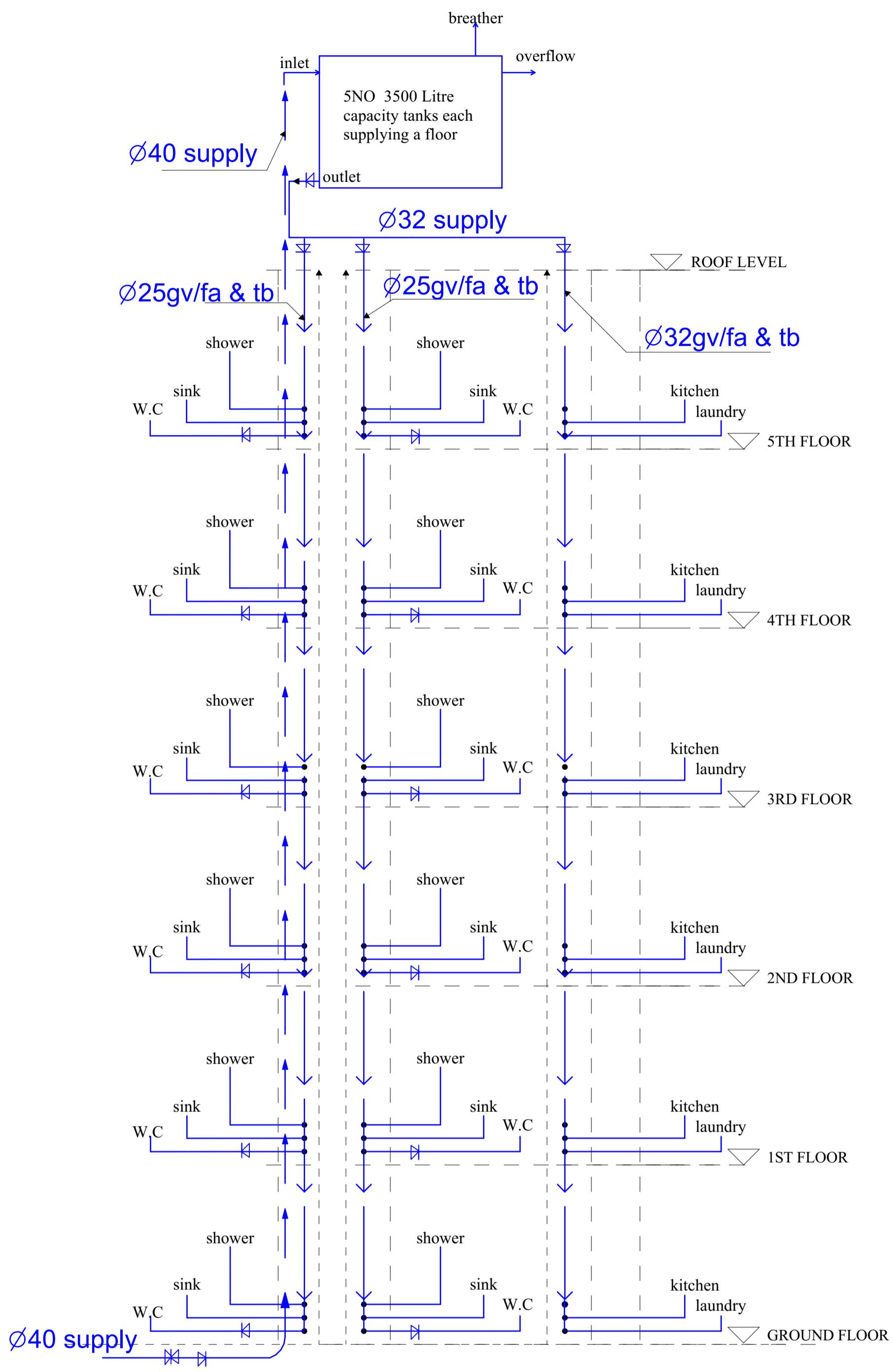
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REVISIONS				DATE:14-06-2024	DESIGNED BY: OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA	COURSE: INTERGRATED DESIGN STUDIO	SCALE-1:75
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: THE FORUM	DRAWING TITLE: PLANS, SECTIONS & ELEVATIONS -GUARD HOUSE	REGISTRATION NUMBER: ENG. YINAM	CLIENT:THE UNIVERSITY OF NAIROBI	COURSE CODE: BCM 413
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**STAFF RESIDENCE TYPICAL
SUPPLY PER HOUSE SCHEMATIC**



TYPICAL FLOOR PLAN SUPPLY & FIRE FIGHTING

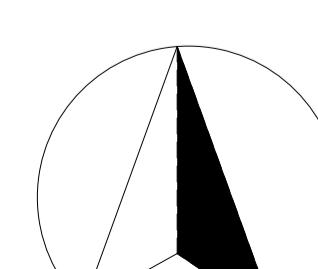
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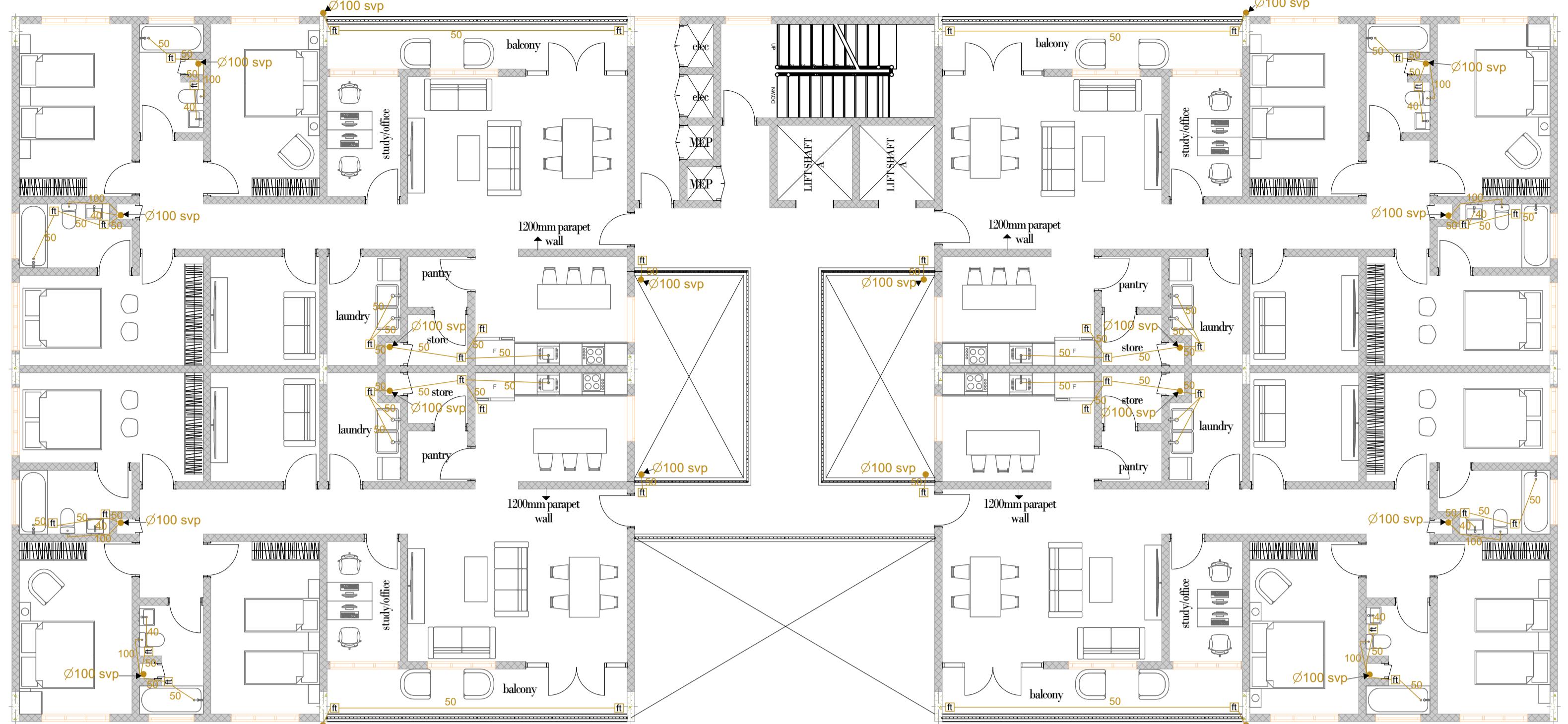
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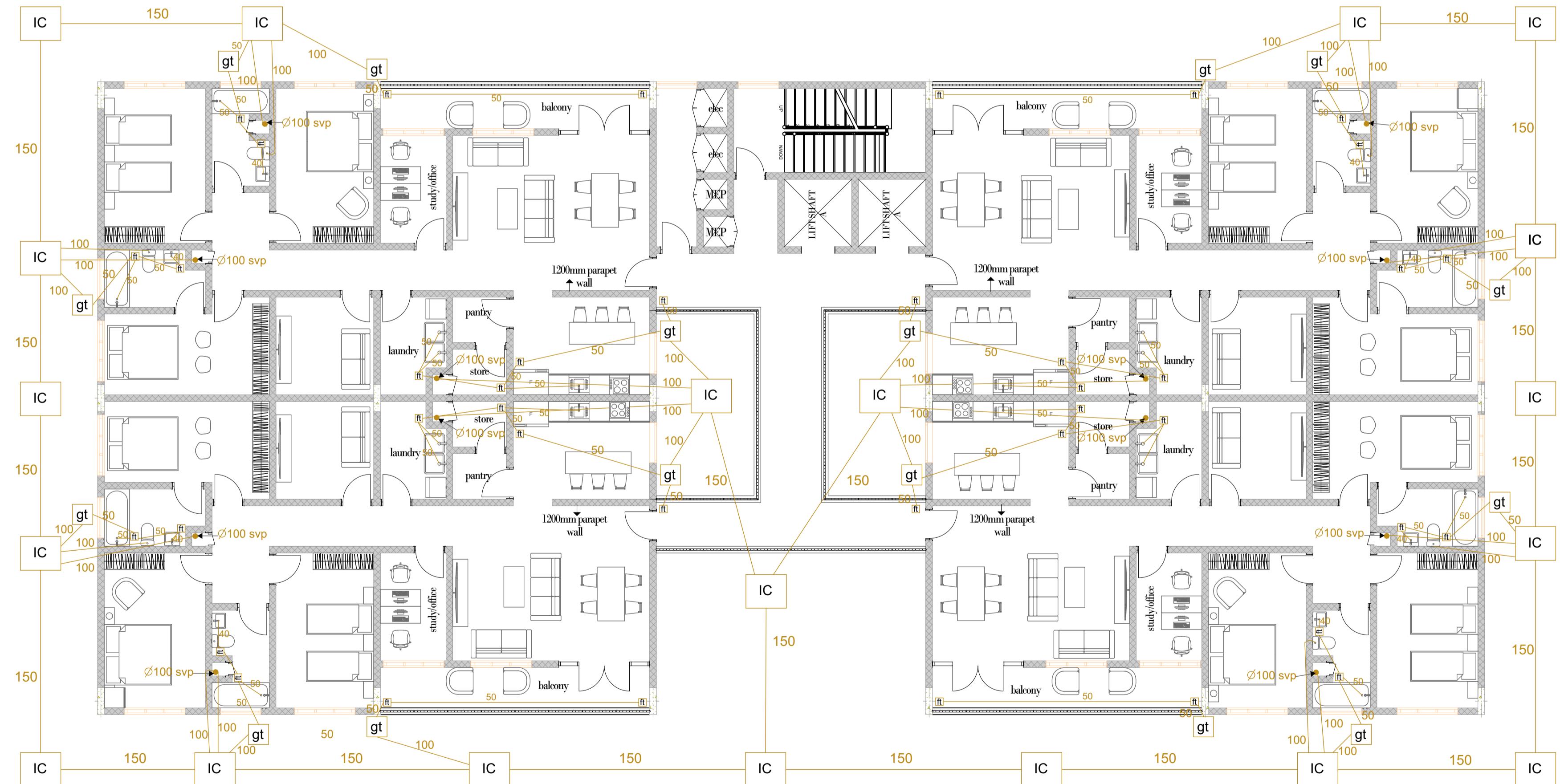
STAFF SUPPLY

NO	DATE	DESCRIPTION	CHECKED BY	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE-1:100
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2				DRAWING TITLE: MECHANICAL PLANS PLUMBING/DRAINAGE/FIRE FIGHTING		DR. KARIUKI ENG. YINAM	
3					REGISTRATION NUMBER:		
4							
5				CLIENT: AZUL TRADING LIMITED	B76/4701/2020	QS. MULAKU	
						COURSE CODE: BCM 410	





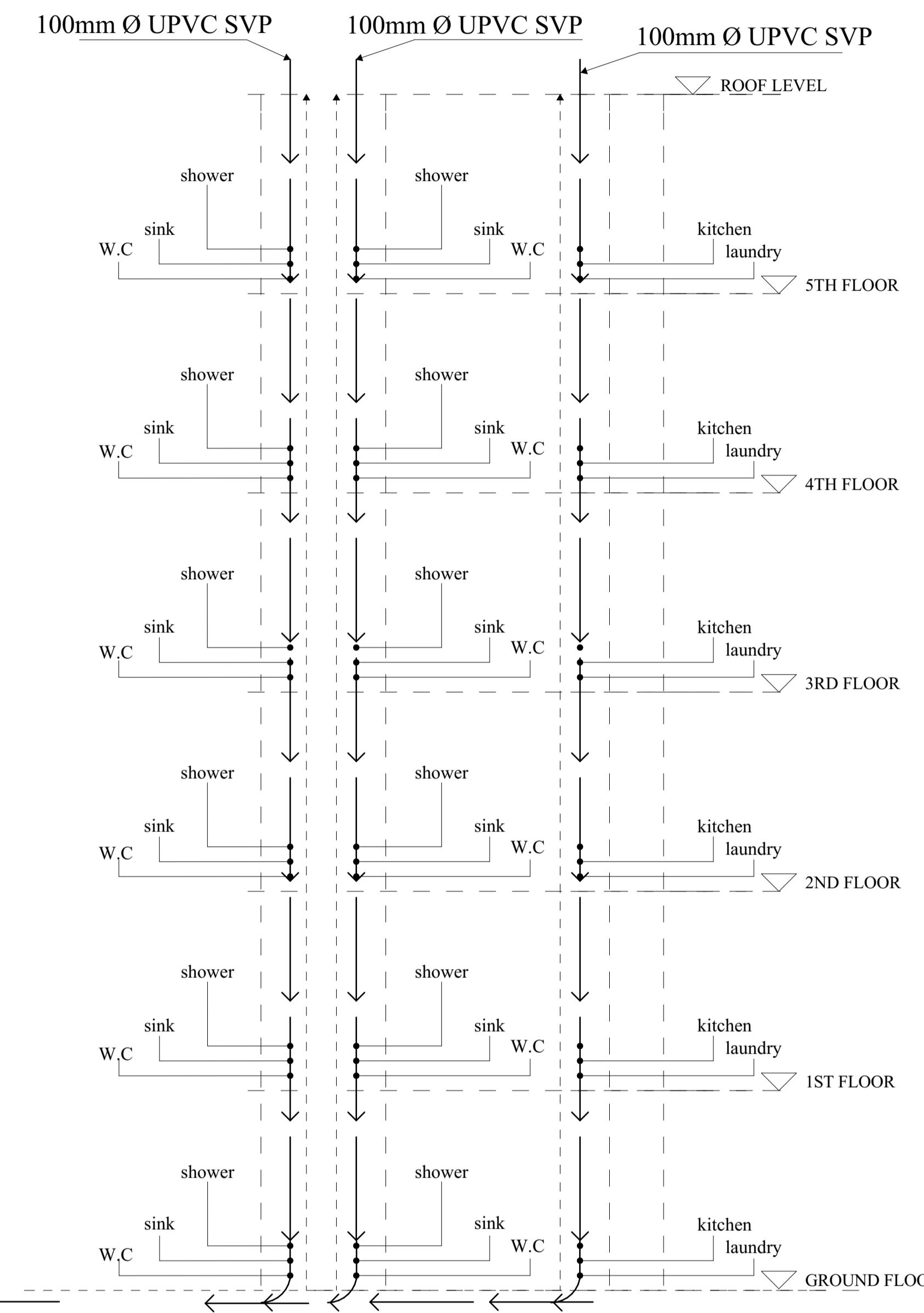
TYPICAL FLOOR DRAINAGE PLAN



GROUND FLOOR DRAINAGE PLAN

STAFF DRAINAGE & SCHEMATIC

STAFF RESIDENCE TYPICAL DRAIANGE PER HOUSE SCHEMATIC



MEC-002

1:100

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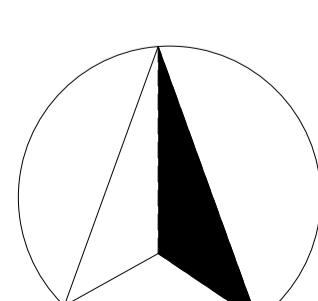
NO	DATE	DESCRIPTION	CHECKED BY	REVISIONS	DATE:14-06-2024	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	DESIGNED BY: OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA DR. KIVINDU	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE-1:100
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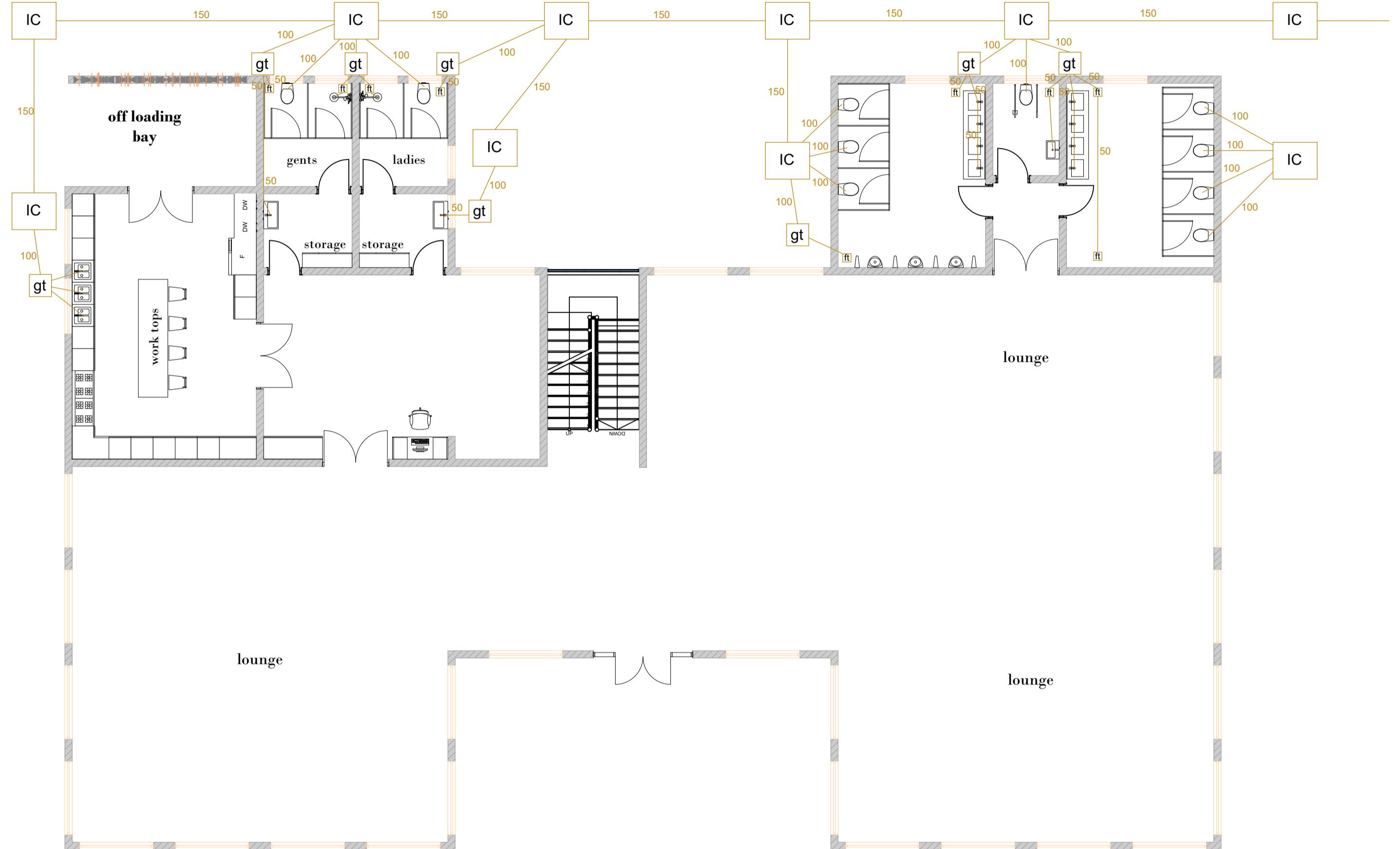
CLIENT: AZUL TRADING LIMITED

B76/4701/2020

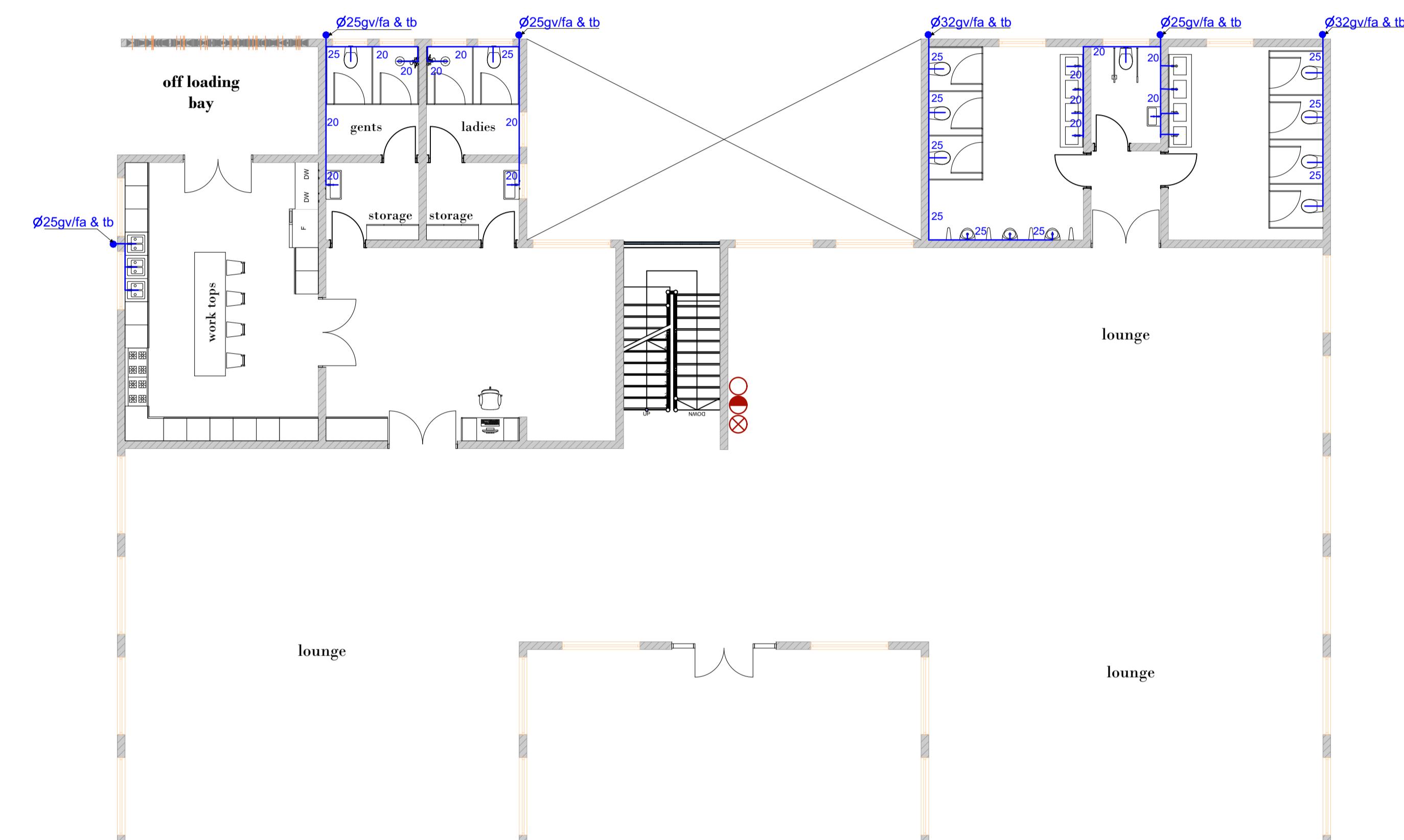
QS. MULAKU

COURSE CODE: BCM 410





DRAINAGE-STUDENT CENTRE



SUPPLY & FIRE FIGHTING STUDENT CENTRE

MEC-003

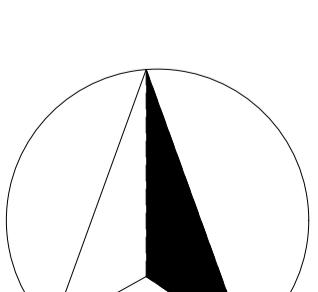
STUDENT CENTRE SUPPLY, DRAINAGE & FIRE FIGHTING

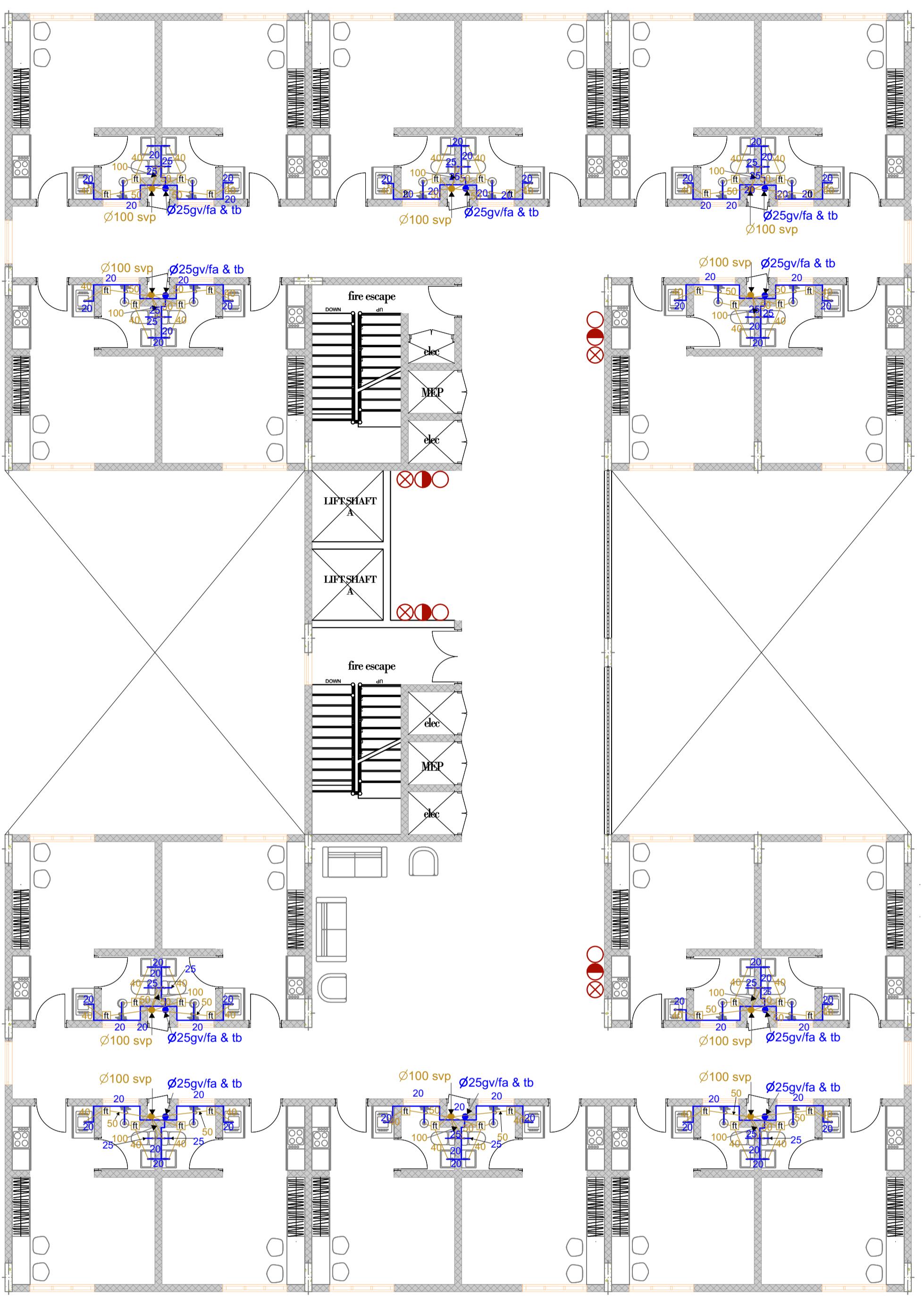
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5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.	16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
6. All soil under slab and around external foundations to be poisoned for termite control.	17. All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
7. Window sills must be finished before internal plastering.	18. All storm water drain to comply to BSS 556.
CIVIL	19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
8. All cuts on cut embankment to be stabilized. The slope is not to exceed the natural angle reaper of the soil.	20. Minimum slopes in drainpipes shall be 1%.
STRUCTURAL	21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
9. All RC work to structural engineer's details.	22. All testing of pipes must be completed before plastering.
10. Depth of foundation to be determined on site to S.E's approval.	23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.
11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.	ELECTRICAL
	24. All conduits must be laid before plastering.
	25. All electrical work must be coordinated with mechanical drawings.

NO	DATE	DESCRIPTION	CHECKED BY	REVISIONS	DATE:14-06-2024	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	DESIGNED BY: OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA DR. KIVINDU	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE-1:100
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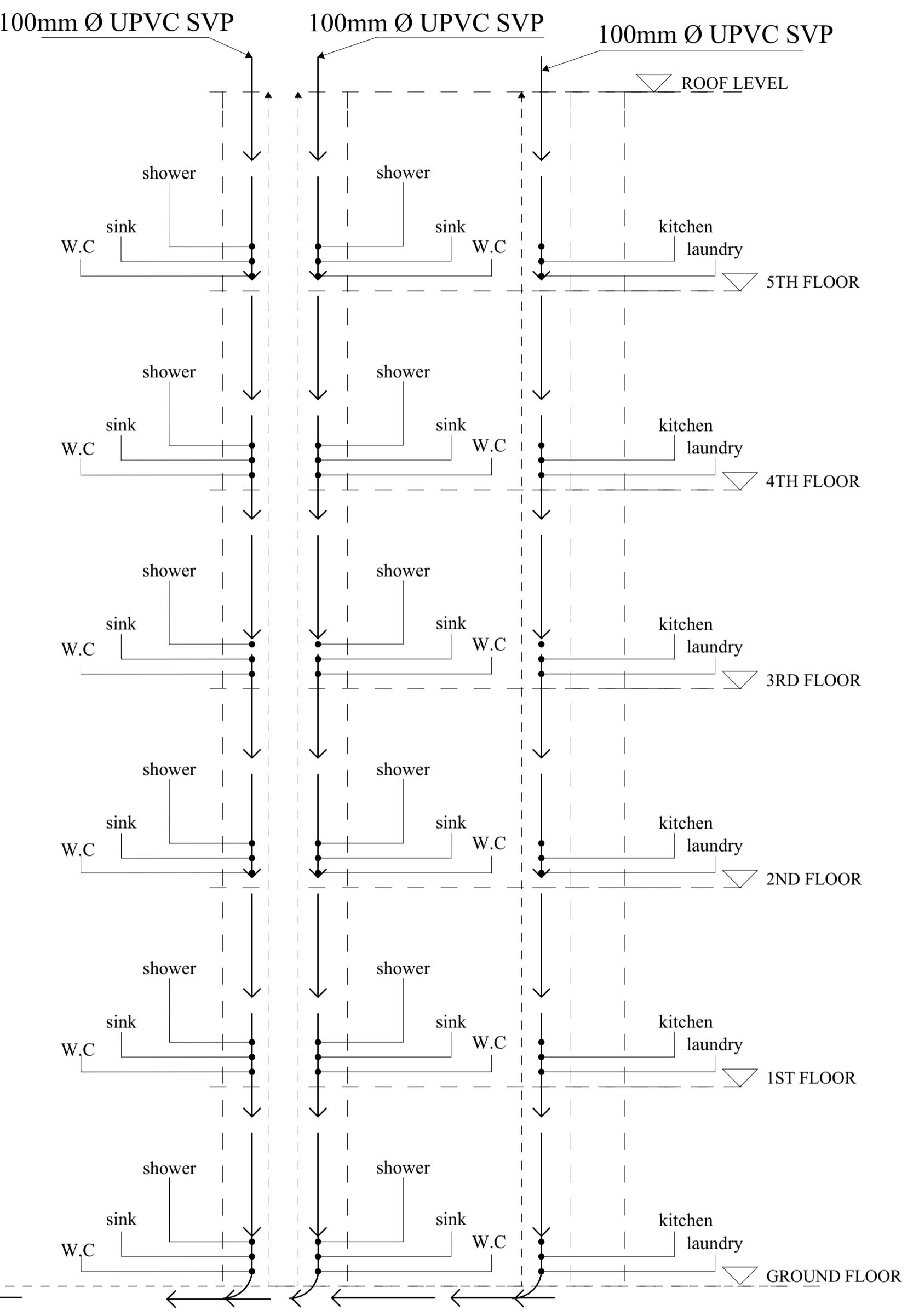
REGISTRATION NUMBER:	CLIENT: AZUL TRADING LIMITED	B76/4701/2020	QS. MULAKU	COURSE CODE: BCM 410



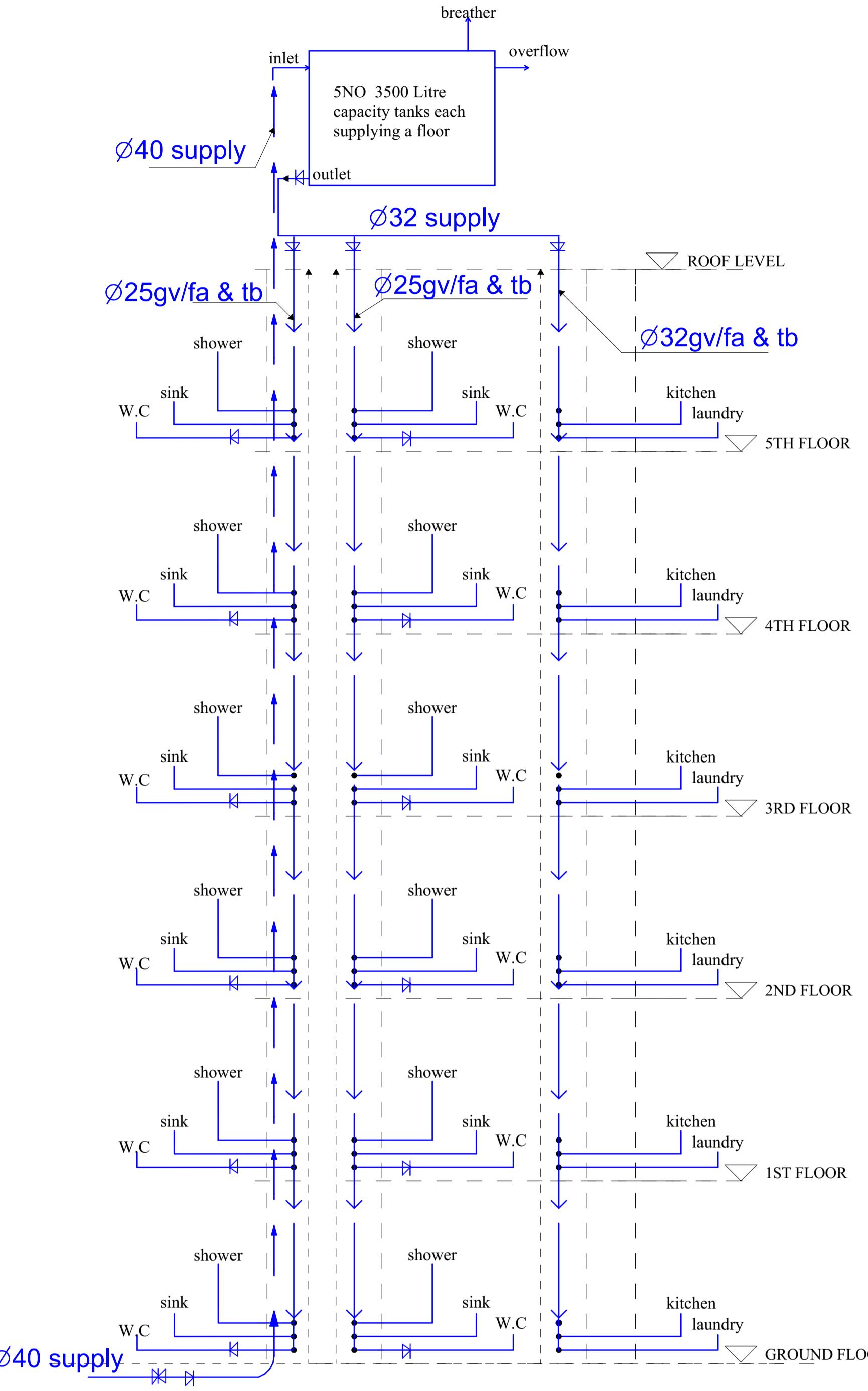


TYPICAL FLOOR PLAN SUPPLY, DRAINAGE & FIRE FIGHTING

STAFF RESIDENCE TYPICAL ORANGE PER HOUSE SCHEMATIC



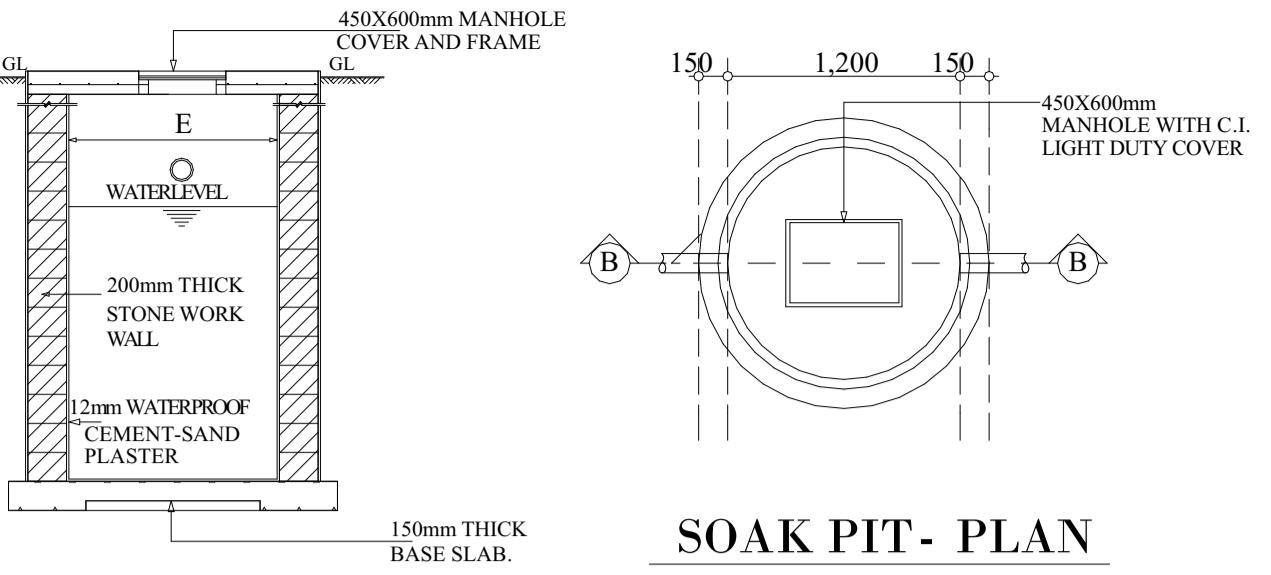
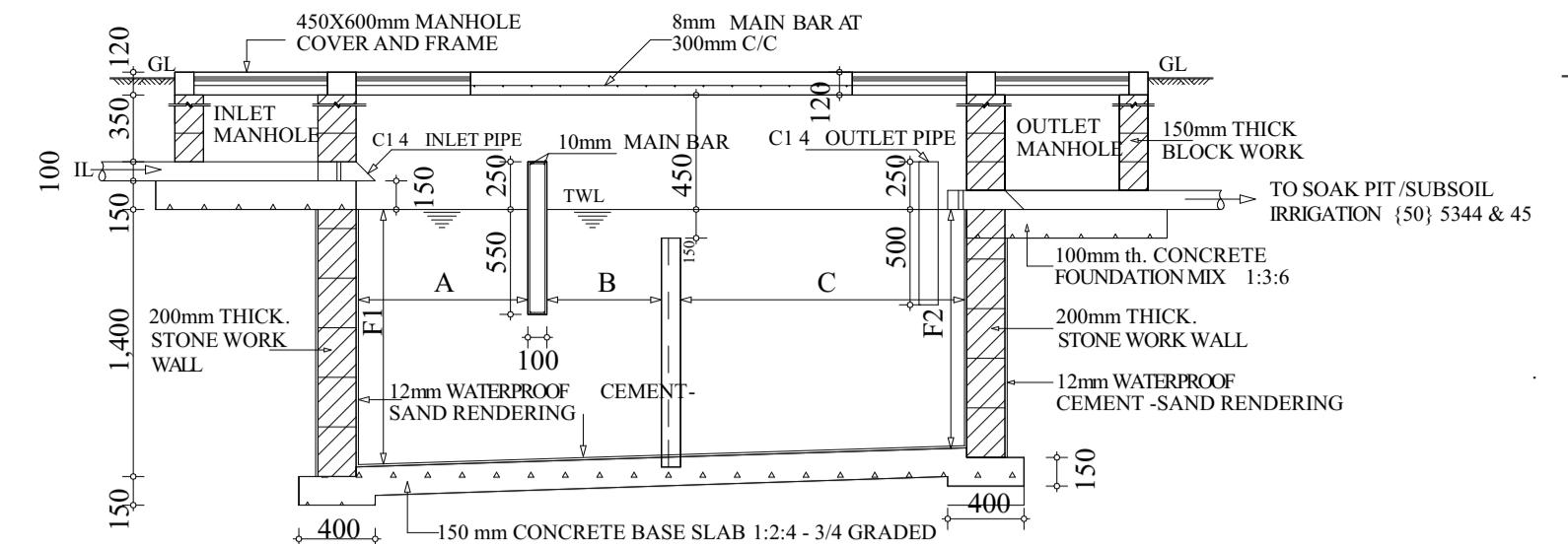
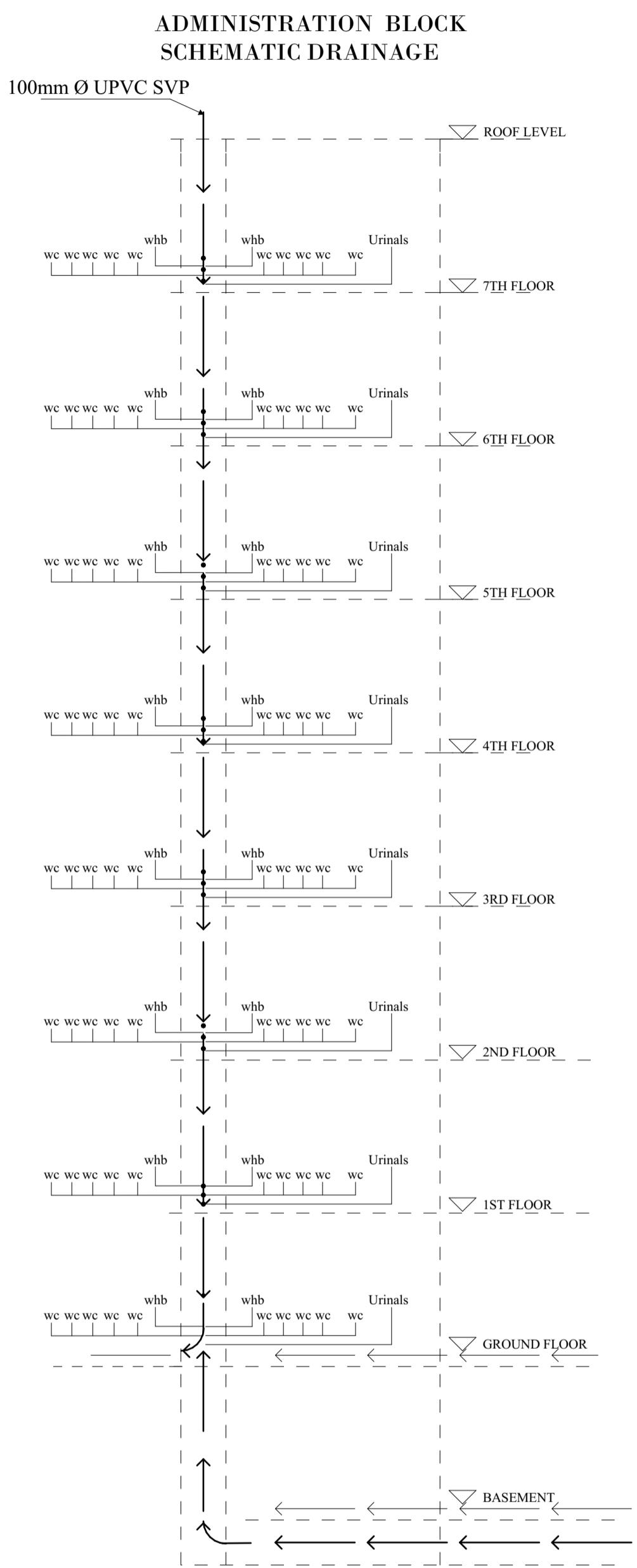
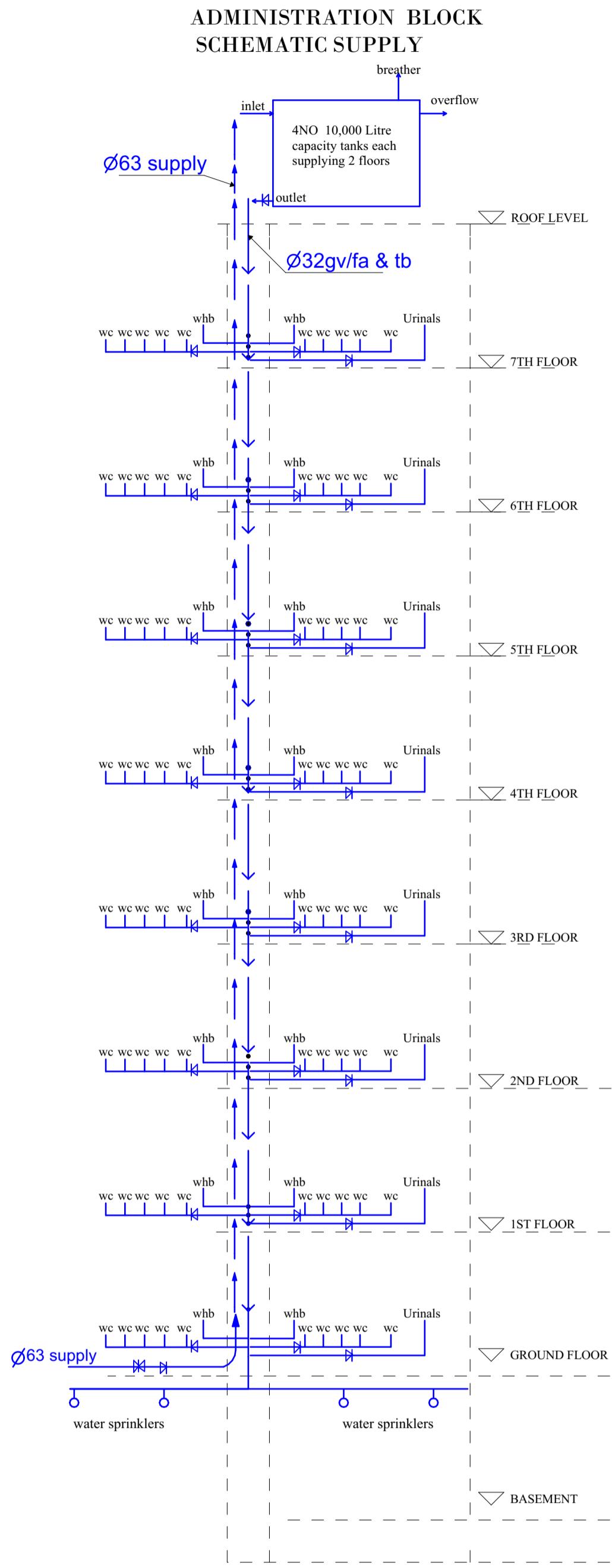
STAFF RESIDENCE TYPICAL SUPPLY PER HOUSE SCHEMATIC



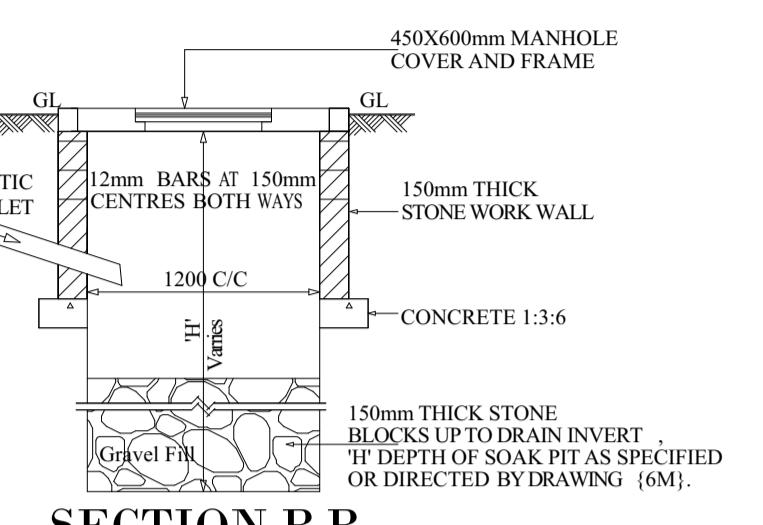
MEC-004

1:100

NOTES:	MECHANICAL	REVISIONS		DATE:14-06-2024	DESIGNED BY:	COURSE:	SCALE-1:100
		NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	
1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.	12. All plumbing and drainage to comply with city councils specifications.	1		DR. ARCH RALWALA	OKOTH DAVIS	CONSTRUCTION DESIGN IMPLEMENTATION	
2. The contractor must check and verify all dimensions on site before commencement of work. Any discrepancies must be notified immediately to the architect.	13. All service ducts to be accessible from all floors.	2		DR. KIVINDU	DR. KARIUKI	PORTOFOLIO	
3. All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architectural or consultants drawing.	14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.	3		ENG. YINAM	DRAWING TITLE:MECHANICAL PLANS PLUMBING/DRAINAGE/FIRE FIGHTING		
<u>CONSTRUCTION</u>	15. SVP (soil vent pipes) to be provided at the head of the drainage.	4		QS. MULAKU	CLIENT: AZUL TRADING LIMITED	COURSE CODE: BCM 410	
4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.	16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.	5		ELECTRICAL	B76/4701/2020		
5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.	17. All under ground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5255.						
6. All soil under slab and around external foundations to be poisoned for termite control.	18. The storm water drain to comply to BSS 556.						
7. Window sills must be finished before internal plastering.	19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.						
<u>CIVIL</u>	20. Minimum slopes in drainpipes shall be 1%.						
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<u>STRUCTURAL</u>	22. All testing of pipes must be completed before plastering.						
9. All RC work to structural engineer's details.	23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.						
10. Depth of foundation to be determined on site to S.E's approval.	<u>ELECTRICAL</u>						
11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.	24. All conduits must be laid before plastering.						
	25. All electrical work must be coordinated with mechanical drawings.						



SOAK PIT- PLAN

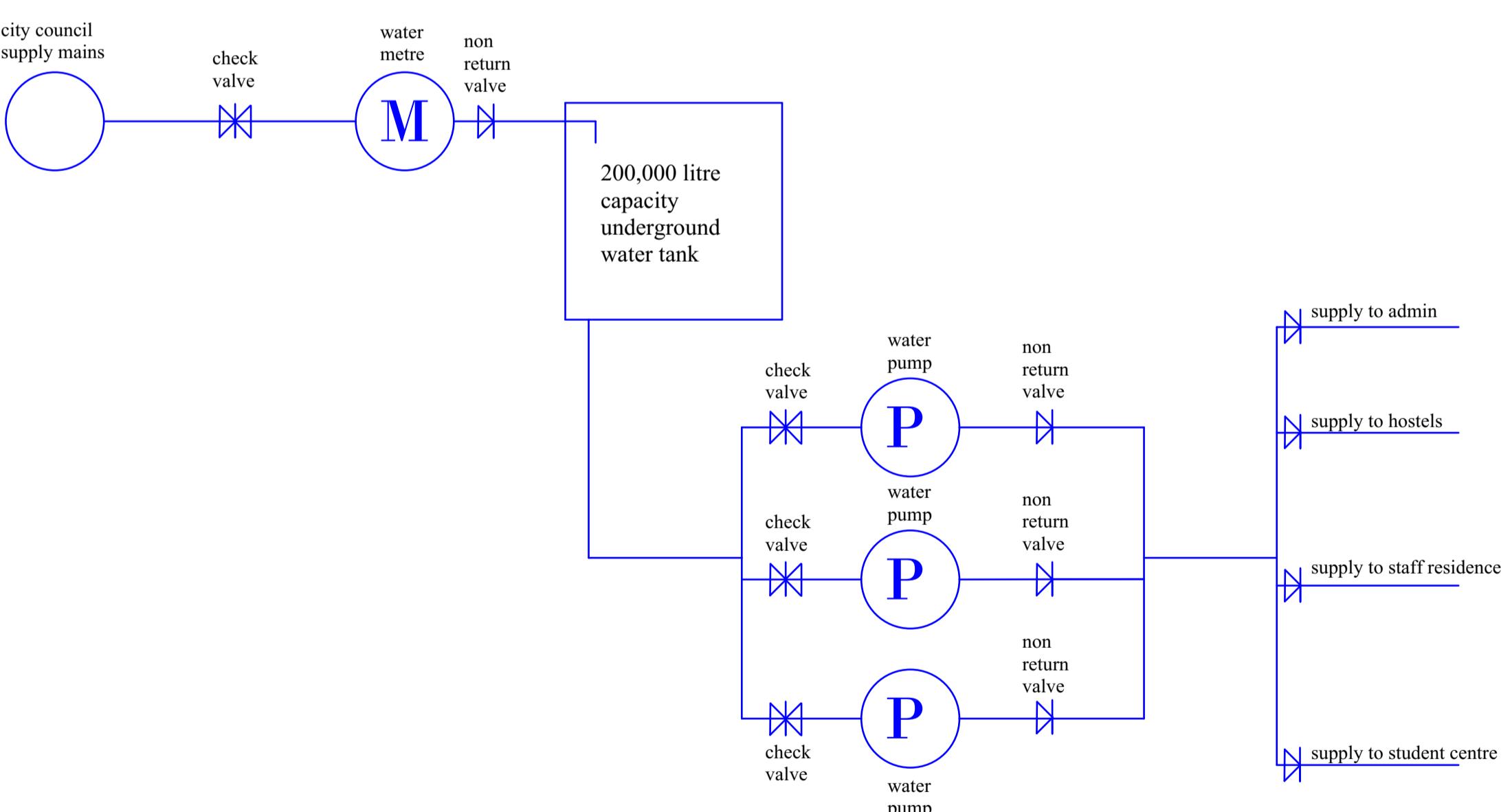


SECTION H-H.

SECTION G-G.

TYPE	CAPACITY IN LITRES	No OF PERSONS	DESLUDGING INTERVAL (YEARS)	DIMENSIONS IN mm						
				A	B	C	D	E	F1	F2
A	3000	10	2	800	1000	1000	3000	800	1200	1400
B	6000	20	2	800	1400	1200	3600	1400	1500	1400
C	9000	30	2	800	1400	1200	3600	1800	1500	1400
D	12000	40	2	800	1600	1400	4000	2000	1500	1300
E	15000	50	2	800	1600	1400	4000	2400	1500	1200
F	22500	100	1.5	800	3600	1800	5600	3000	1860	1500
G	45000	200	1.5	800	5600	2800	8600	3600	2040	1500
H	67500	300	1.5	800	7600	3800	11600	4000	2260	1500
I	90000	400	1.5	800	8800	4400	13400	4600	2380	1500

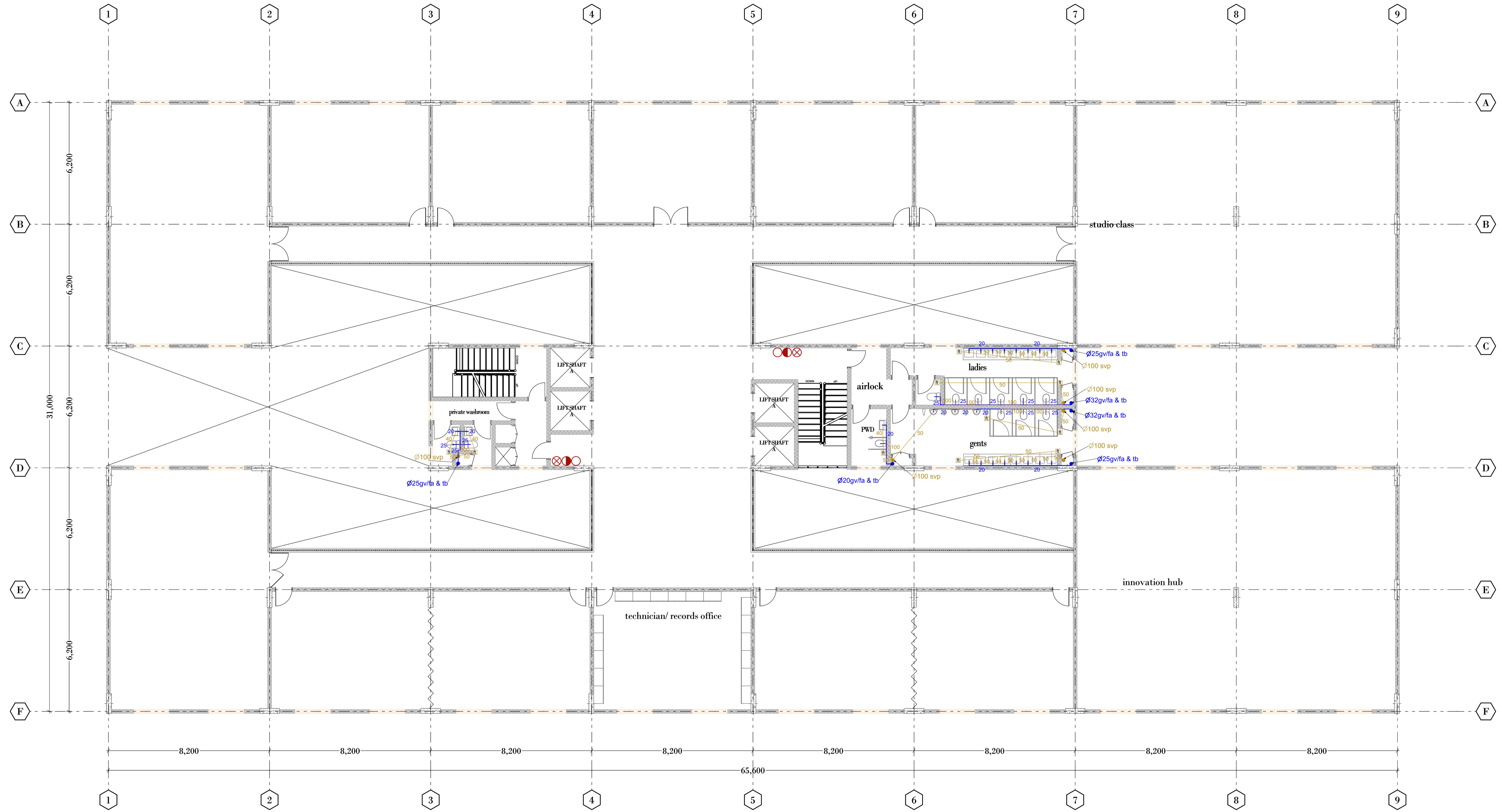
SEPTIC TANK DETAILS



SUPPLY & TERMINATION DETAILS

ADMIN SCHEMATICS, SEPTC DETAILS & SUPPLY TERMINATION

MEC-006	ADMIN SCHEMATICS, SEPTC DETAILS & SUPPLY TERMINATION					1:100
<p>NOTES:</p> <p>1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.</p> <p>2. The contractor must check and verify all dimensions on site before commencement of work. Any discrepancies must be notified immediately to the architect.</p> <p>3. All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architectural or consultants drawing.</p> <p>CONSTRUCTION</p> <p>4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.</p> <p>5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.</p> <p>6. All soil under slab and around external foundations to be poisoned for termite control.</p> <p>7. Window sills must be finished before internal plastering.</p> <p>CIVIL</p> <p>8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.</p> <p>STRUCTURAL</p> <p>9. All RC work to structural engineer's details.</p> <p>10. Depth of foundation to be determined on site to S.E's approval.</p> <p>11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.</p>		<p>MECHANICAL</p> <p>12. All plumbing and drainage to comply with city councils specifications.</p> <p>13. All service ducts to be accessible from all floors.</p> <p>14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.</p> <p>15. SVP (soil vent pipes) to be provided at the head of the drainage.</p> <p>16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.</p> <p>17. All under ground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5255.</p> <p>18. The storm water drain to comply to BSS 556.</p> <p>19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.</p> <p>20. Minimum slopes in drainpipes shall be 1%.</p> <p>21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.</p> <p>22. All testing of pipes must be completed before plastering.</p> <p>23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.</p> <p>ELECTRICAL</p> <p>24. All conduits must be laid before plastering.</p> <p>25. All electrical work must be coordinated with mechanical drawings.</p>		<p>REVISIONS</p> <p>DESIGNED BY: DATE:14-06-2024</p> <p>CHECKED BY: DR. ARCH RALWALA OKOTH DAVIS DR. KIVINDU</p> <p>REGISTRATION NUMBER: DRAWING TITLE:MECHANICAL PLANS PLUMBING/DRAINAGE/FIRE FIGHTING</p> <p>COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO</p> <p>CLIENT: AZUL TRADING LIMITED</p> <p>COURSE CODE: BCM 410</p>	<p>SCALE-1:100</p> 	
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	
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TYPICAL FLOOR PLAN SUPPLY, DRAINAGE & FIRE FIGHTING

MEC-007

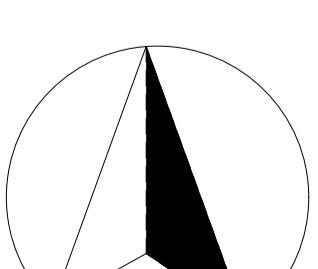
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STRUCTURAL:
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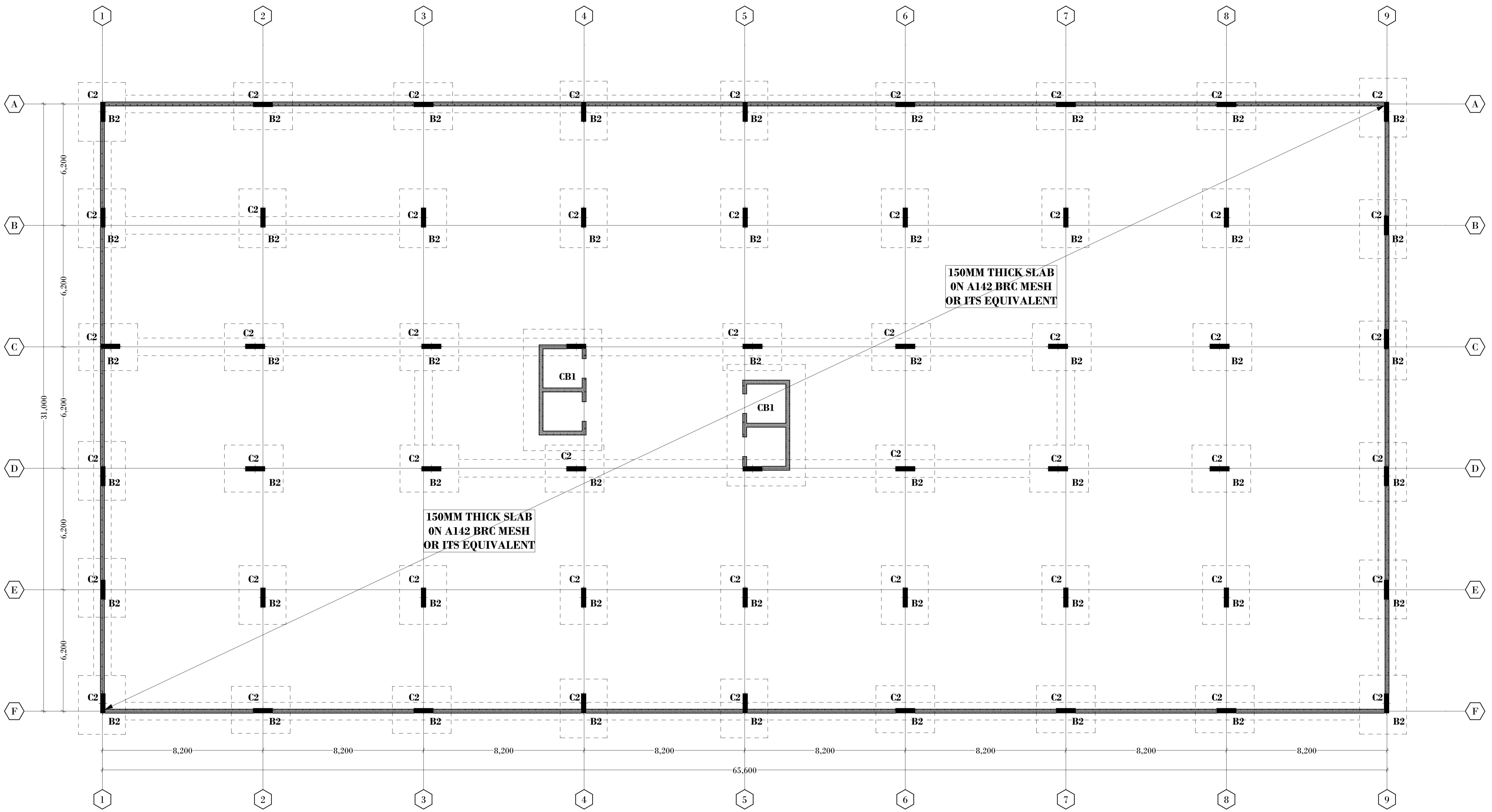
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ADMIN TYPICAL FLOOR PLAN -MECHANICAL

1:100

NO	DATE	DESCRIPTION	REVISIONS	CHECKED BY	DATE:14-06-2024	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	DESIGNED BY: OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA DR. KIVINDU	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE-1:100
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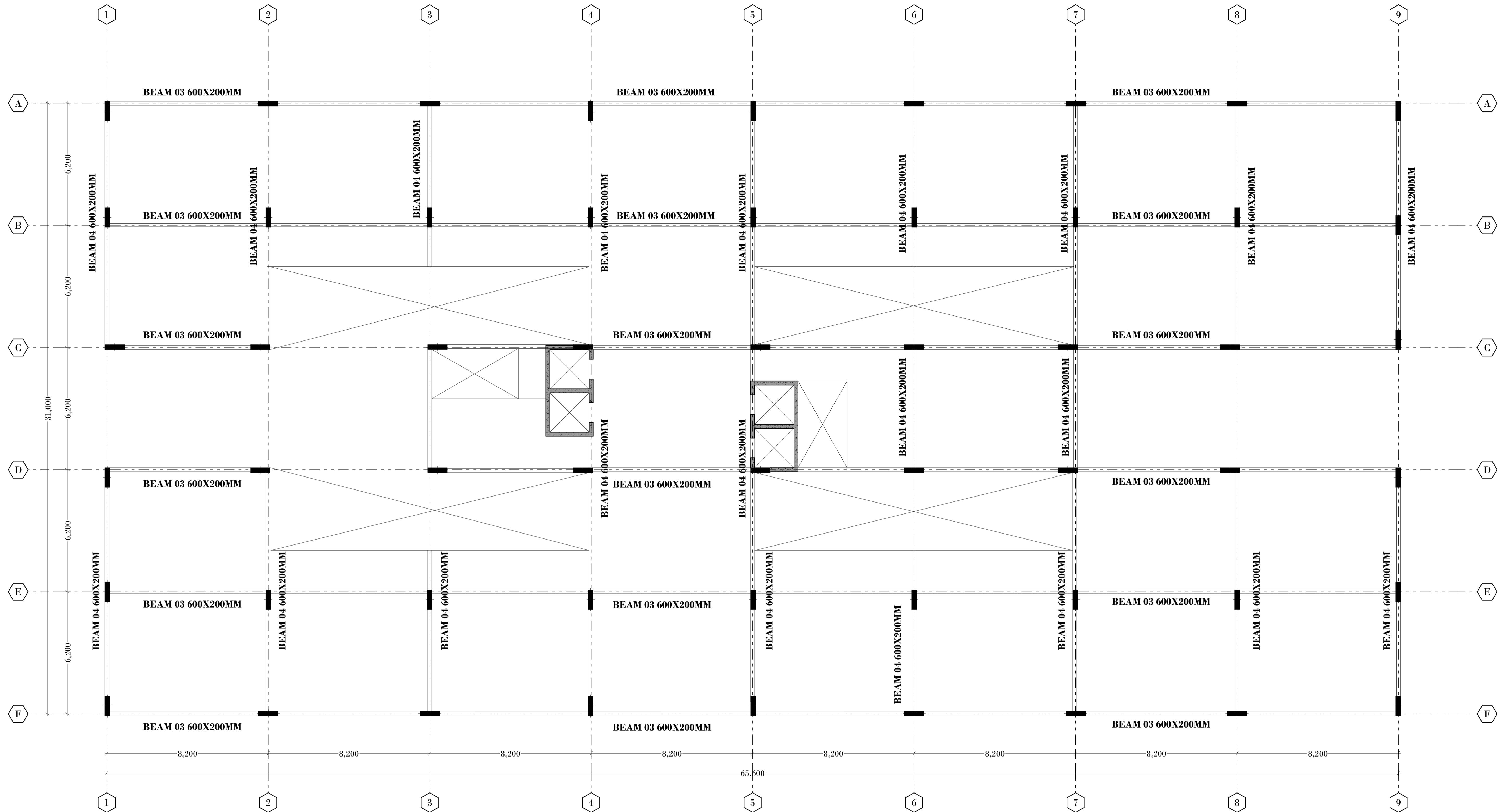




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REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: STRUCTURAL-FOUNDATION CLIENT: AZUL TRADING LIMITED	OKOTH DAVIS REGISTRATION NUMBER: B76/4701/2020	DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YIMAM QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	
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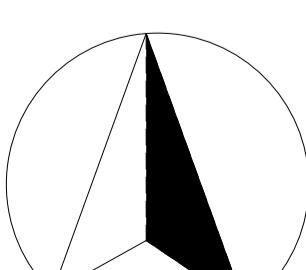


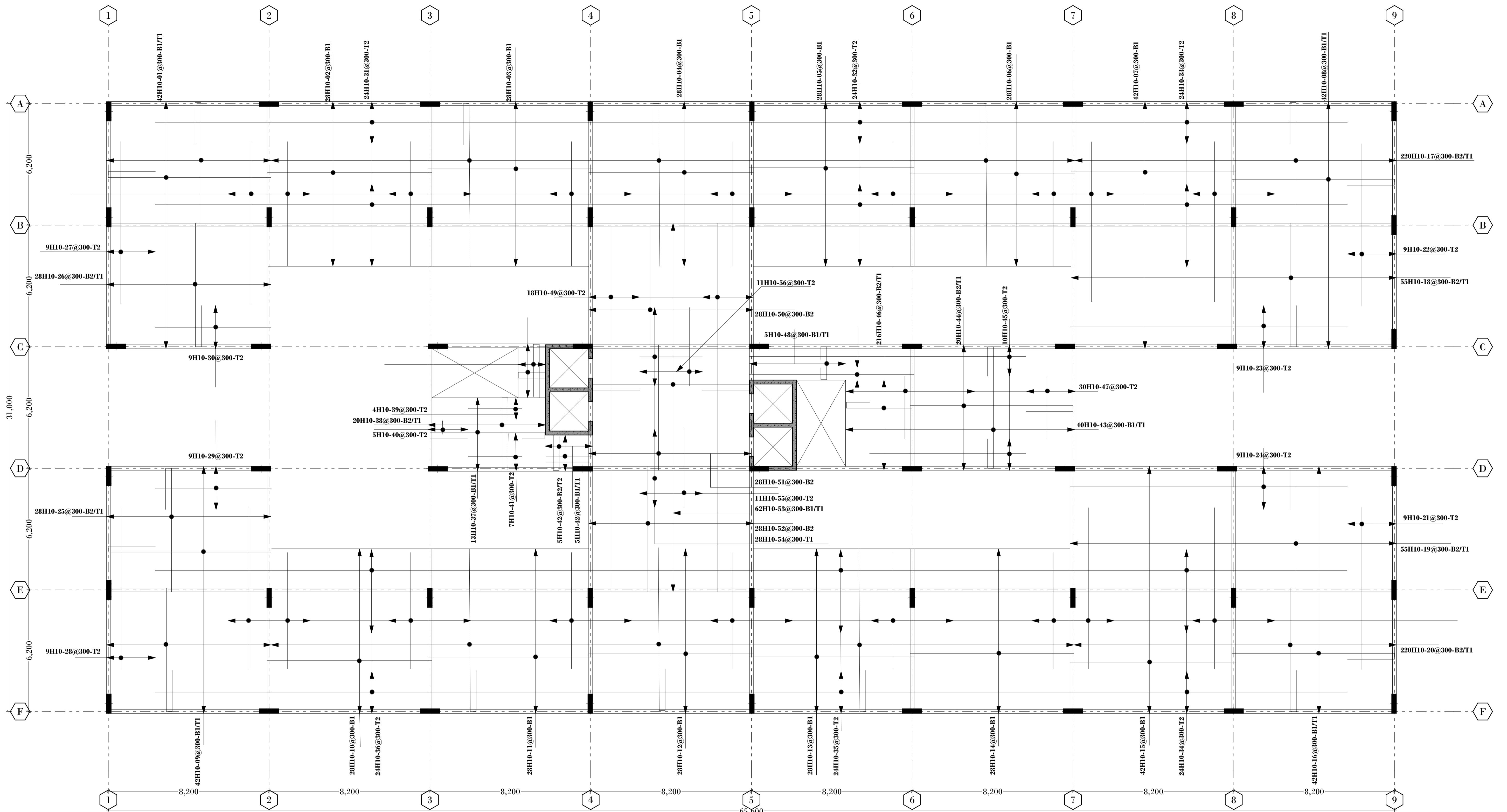
CLASSES & ADMIN

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REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: STRUCTURAL-BEAM LAYOUT REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED	OKOTH DAVIS DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YIMAM B76/4701/2020	QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	COURSE CODE: BCM 410
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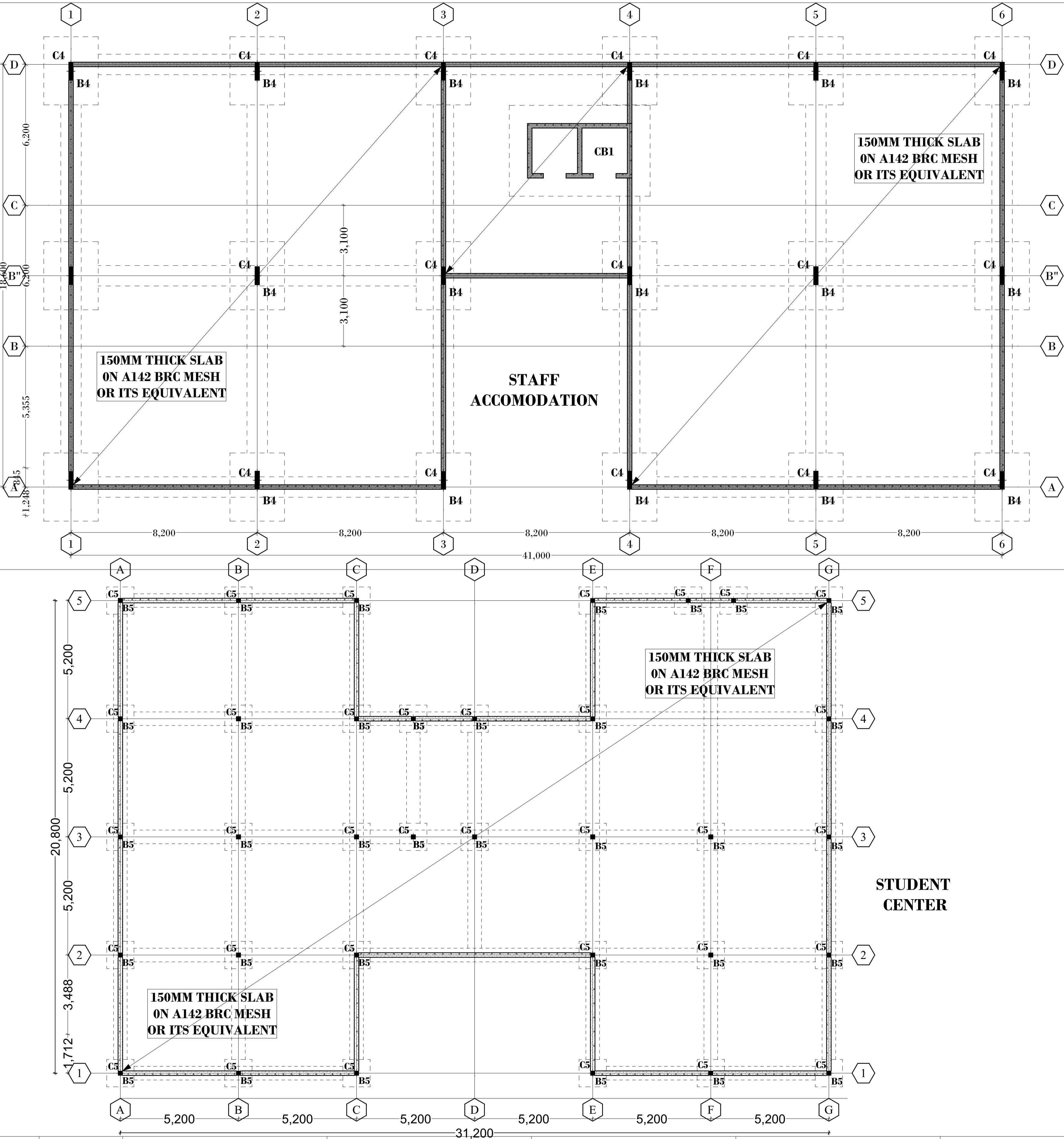
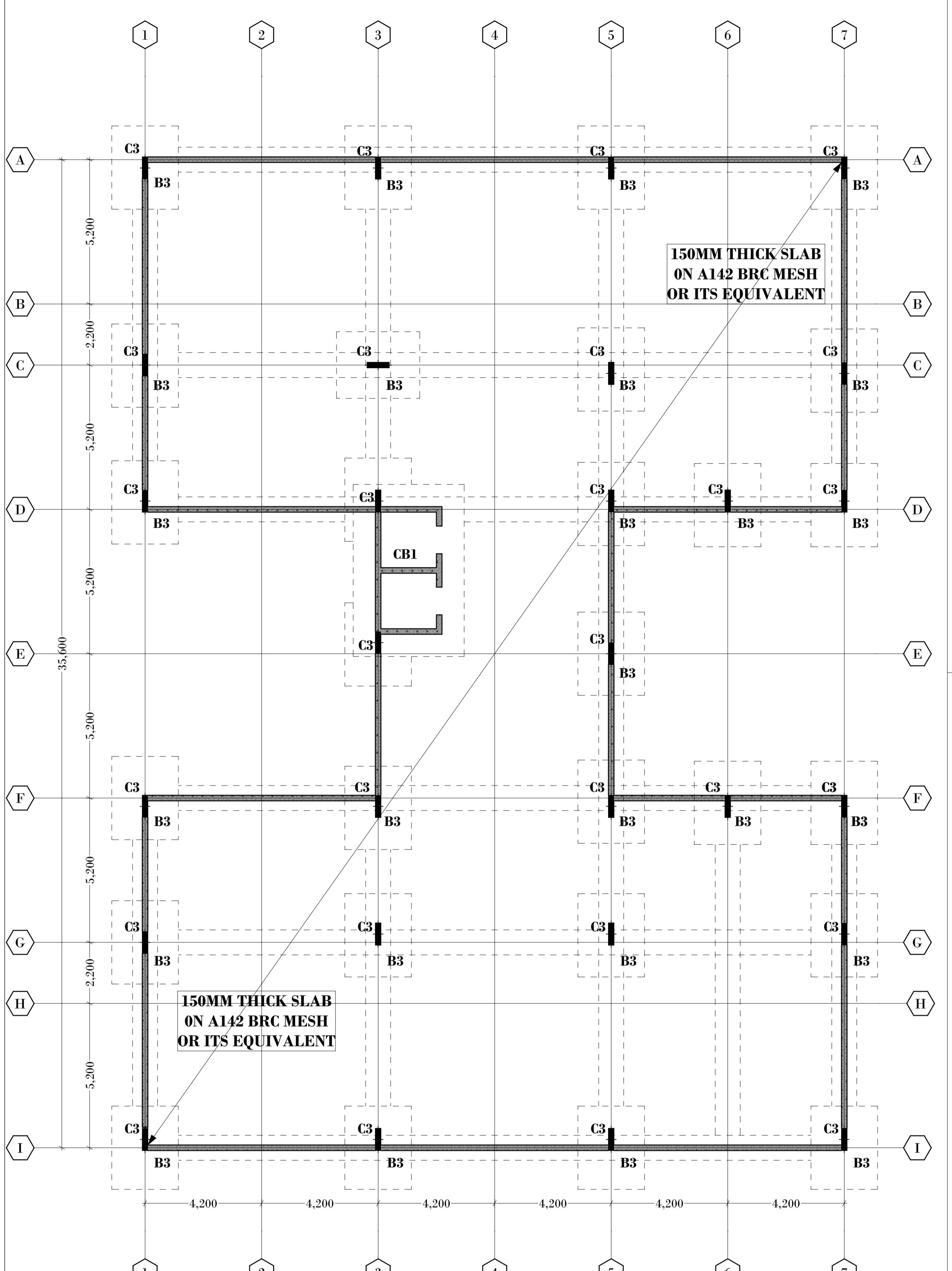




CLASSES & ADMIN

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						DR. ARCH RALWALA	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	DRAWING TITLE: STUCTURAL-SLAB REINFORCEMENTS	REGISTRATION NUMBER:	CLIENT: AZUL TRADING LIMITED
NO	DATE	DESCRIPTION	CHECKED BY	OKOTH DAVIS							
1				DR. KIVINDU							
2				DR. KARIUKI							
3				ENG. YIMAM							
4				QS. MULAKU	B76/4701/2020	COURSE CODE: BCM 410					
5											

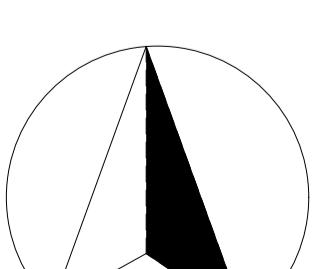
STUDENT HOSTEL

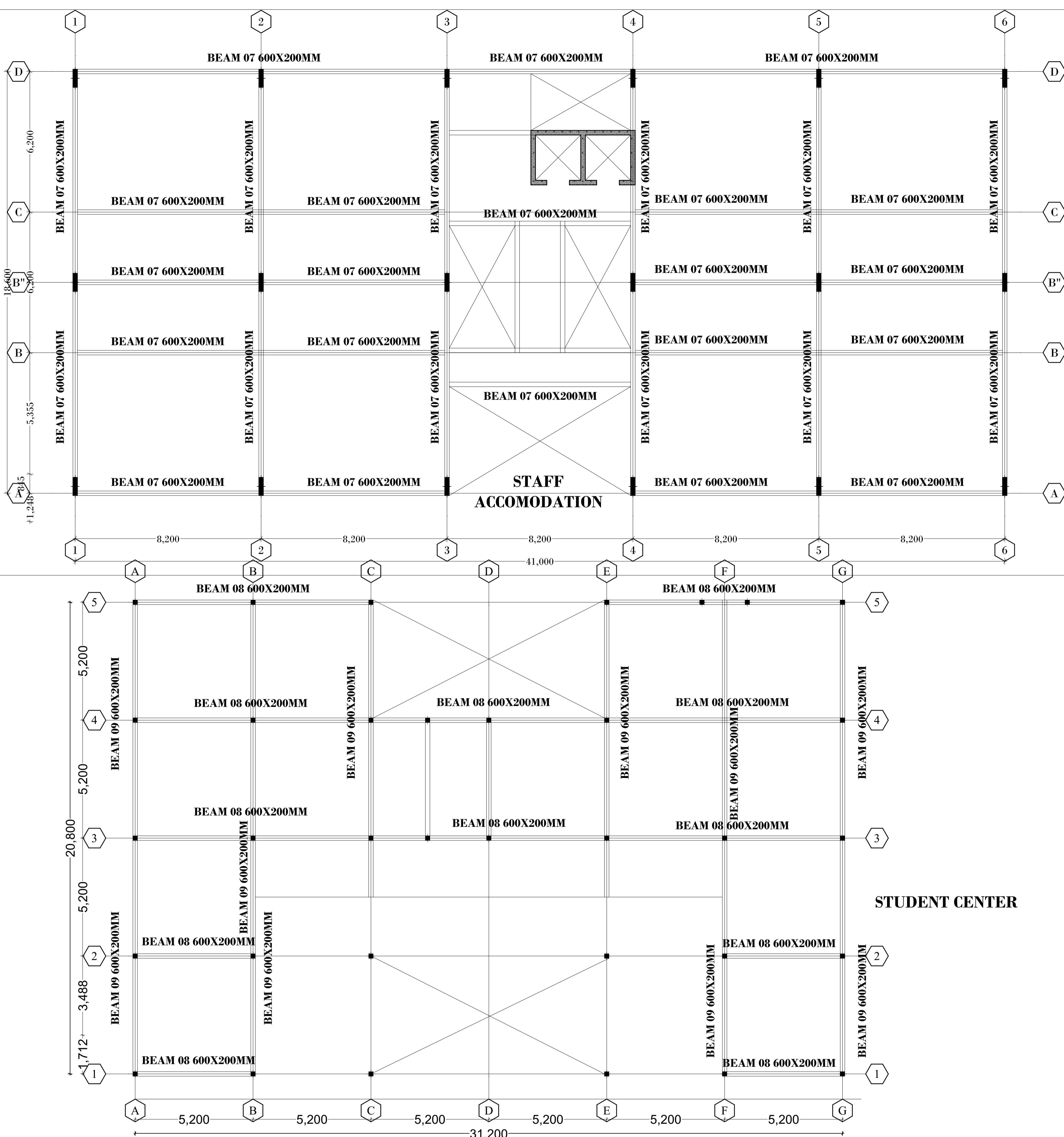
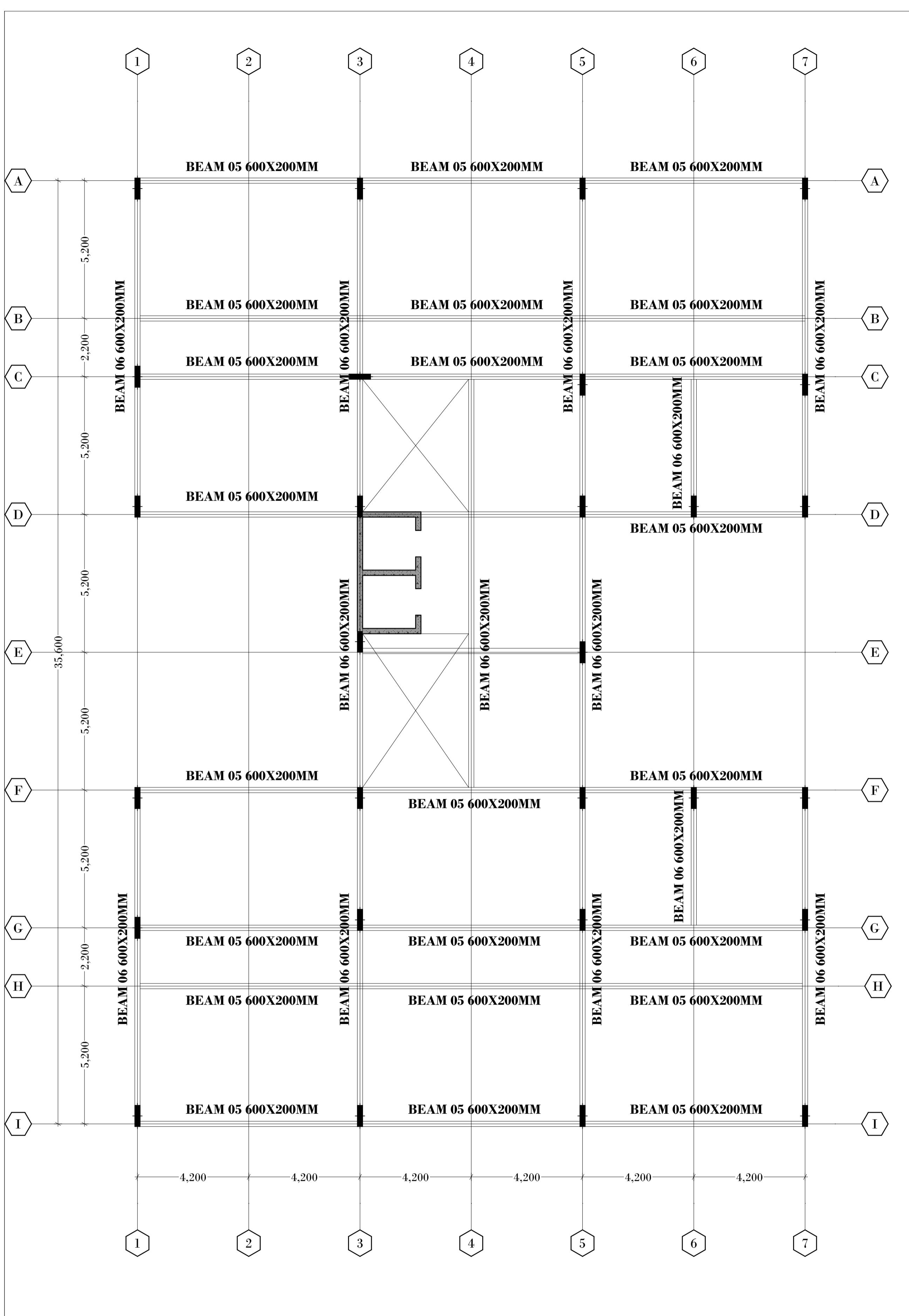


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ELECTRICAL:
 24. All conduits must be laid before plastering.
 25. All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: STRUCTURAL FOUNDATIONS LAYOUTS CLIENT: AZUL TRADING LIMITED	OKOTH DAVIS REGISTRATION NUMBER: B76/4701/2020	DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YIMAM QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	COURSE CODE: BCM 410
1								
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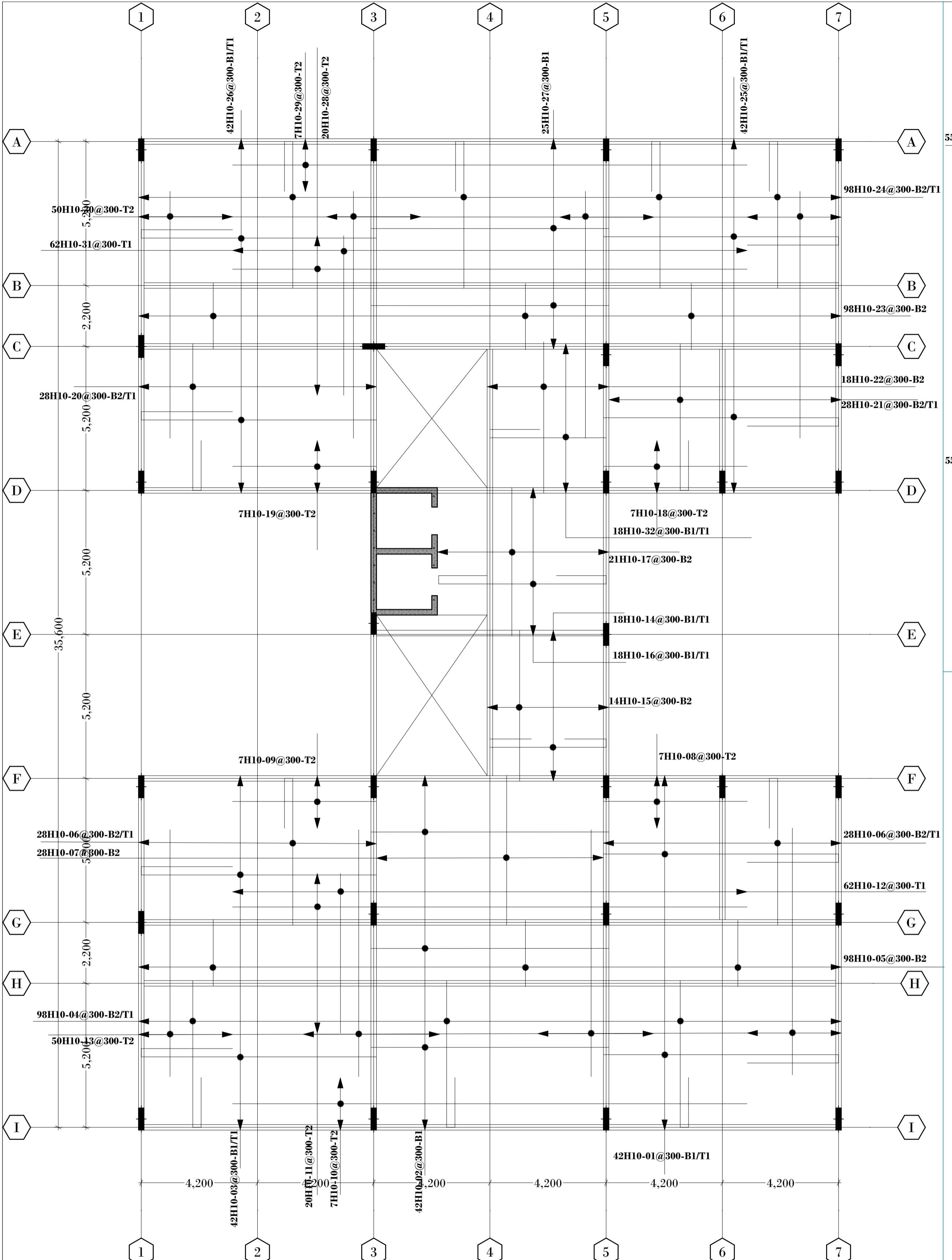


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 4. All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architect or consultants drawing.
CONSTRUCTION:
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 5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
 6. All soil under slab and around external foundations to be poisoned for termite control.
 7. Window sills must be finished before internal plastering.
CIVIL:
 8. All cuts on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
STRUCTURAL:
 9. All RC work to structural engineer's details.
 10. Depth of foundation to be determined on site to S.E.'s approval.
 11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

STUDENT HOSTEL

1. All service ducts to be accessible from all floors.
 12. All service ducts to be accessible from all floors.
 13. All service ducts to be accessible from all floors.
 14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
 15. SVP (soil vent pipes) to be provided at the head of the drainage.
 16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
 17. All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
 18. All storm water drain to comply to BSS 556.
 19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
 20. Minimum slopes in drainpipes shall be 1%.
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ELECTRICAL:
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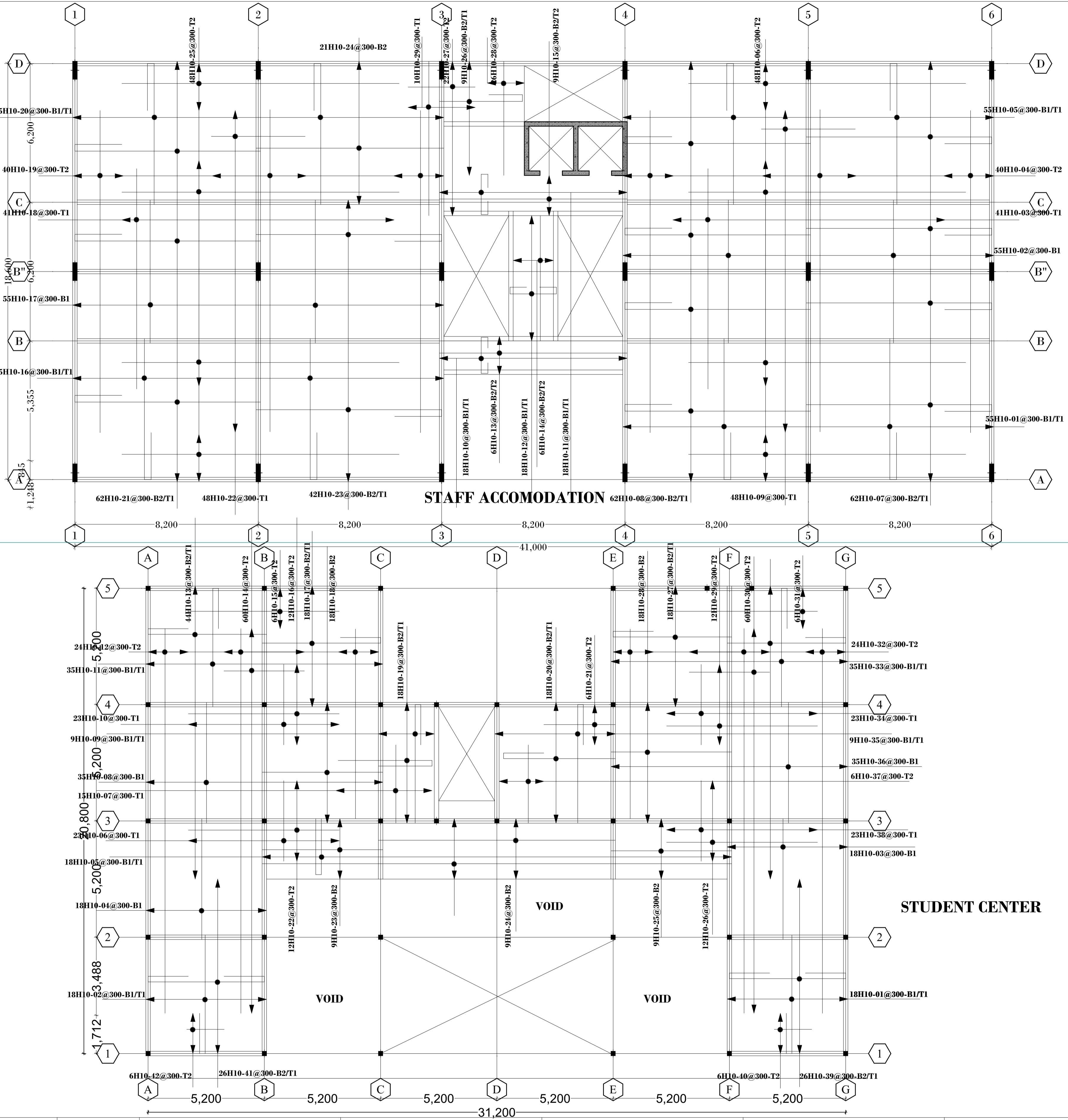
REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	OKOTH DAVIS	DR. ARCH RALWALA DR. KIVINDU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	
1				DRAWING TITLE: STRUCTURAL-BEAM LAYOUTS		DR. KARIUKI ENG. YIMAM		
2								
3								
4				CLIENT: AZUL TRADING LIMITED	B76/4701/2020	QS. MULAKU		
5							COURSE CODE: BCM 410	



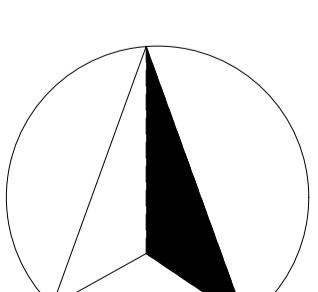
STUDENT HOSTEL

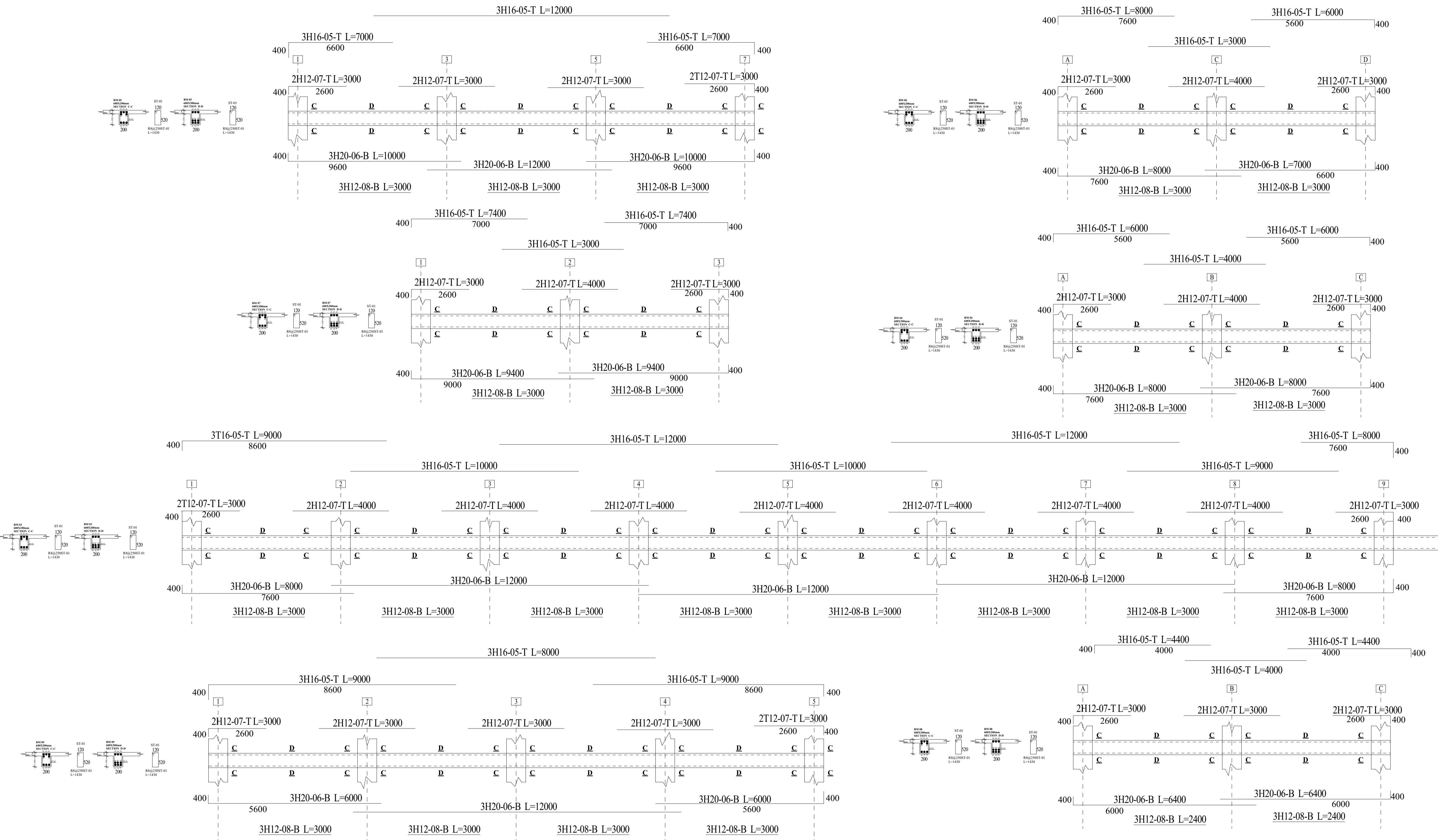
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 5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
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 7. Window sills must be finished before internal plastering.
CIVIL:
 8. All cuts on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
STRUCTURAL:
 9. All RC work to structural engineer's details.
 10. Depth of foundation to be determined on site to S.E.'s approval.
 11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL:
 12. All plumbing and drainage to comply with city councils specifications.
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 18. All storm water drain to comply to BSS 556.
 19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
 20. Minimum slopes in drainpipes shall be 1%.
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 23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.
ELECTRICAL:
 24. All conduits must be laid before plastering.
 25. All electrical work must be coordinated with mechanical drawings.



REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: STRUCTURAL-SLAB DETAILS REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED B76/4701/2020	OKOTH DAVIS DR. KARIUKI ENG. YIMAM QS. MULAKU	DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YIMAM QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	COURSE CODE: BCM 410
1								
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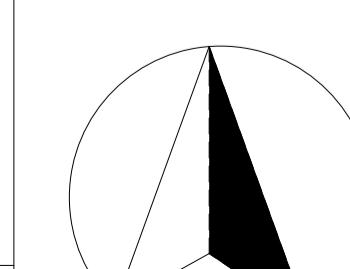
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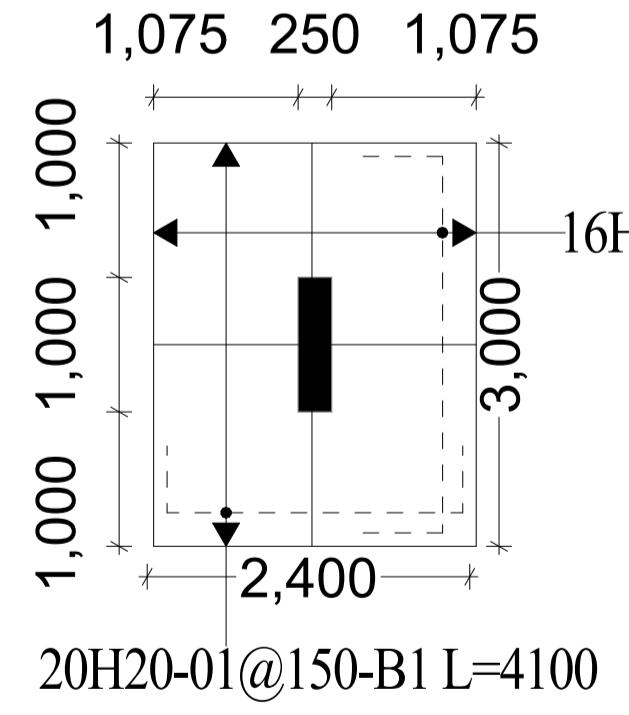
1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.
2. The contractor must check and verify all dimensions on site before commencement of work.
3. Any discrepancies must be notified immediately to the architect.
4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.
5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
6. All soil under slab and around external foundations to be poisoned for termite control.
7. Window sills must be finished before internal plastering.
8. All cuts on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
9. All RC work to structural engineer's details.
10. Depth of foundation to be determined on site to S.E.'s approval.
11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL:

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13. All service ducts to be accessible from all floors.
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18. All storm water drain to comply to BSS 556.
19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
20. Minimum slopes in drainpipes shall be 1%.
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NO	DATE	DESCRIPTION	CHECKED BY	DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
1			PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: STRUCTURAL-BEAM DETAILS		OKOTH DAVIS REGISTRATION NUMBER:	DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YIMAM	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	
2								
3								
4								
5								
				CLIENT: AZUL TRADING LIMITED	B76/4701/2020	QS. MULAKU		COURSE CODE: BCM 410





FOOTING B4

N0= 54

NOTES:

1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.
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CONSTRUCTION

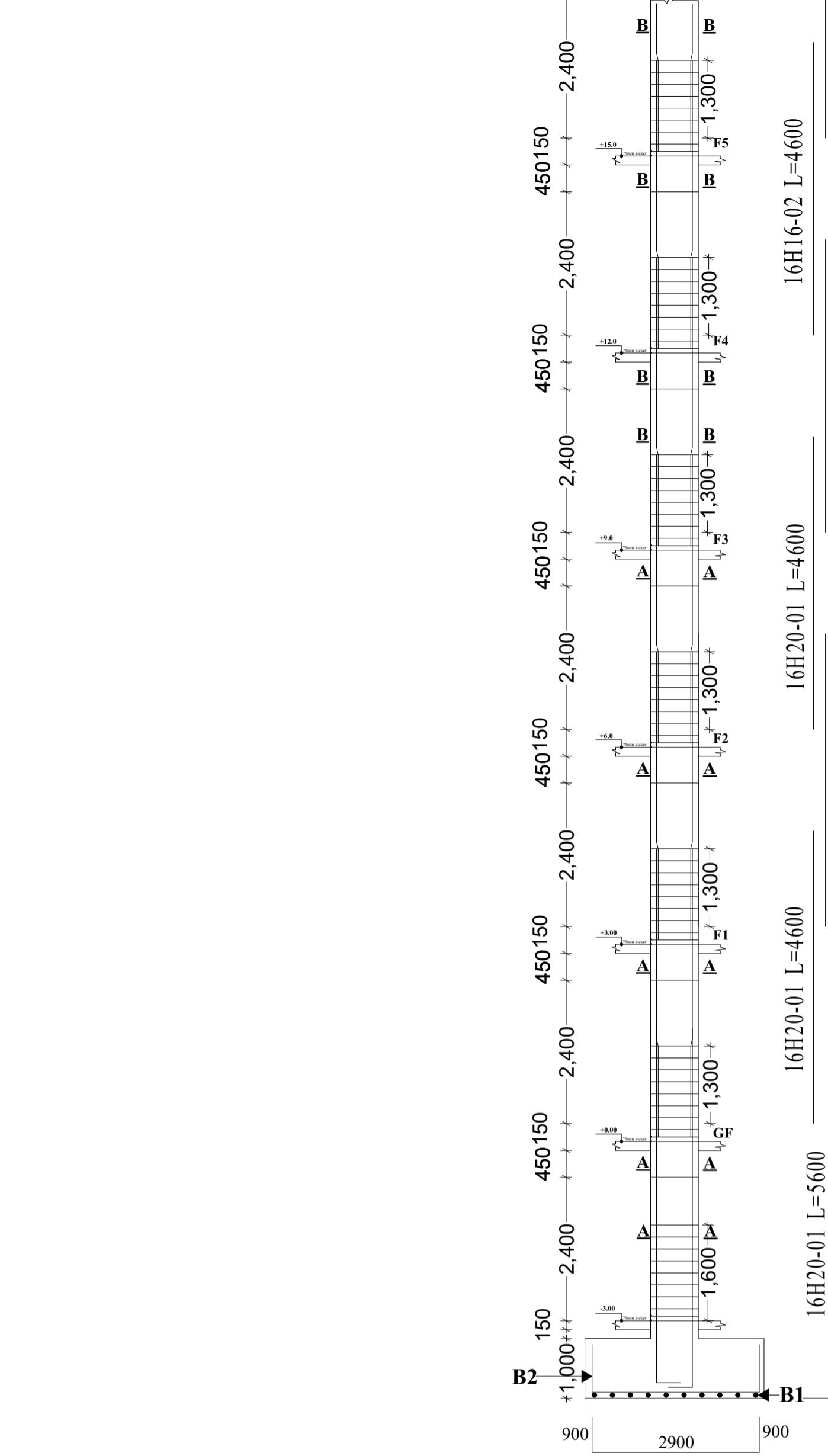
4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.
5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
6. All soil under slab and around external foundations to be poisoned for termite control.
7. Window sills must be finished before internal plastering.

CIVIL

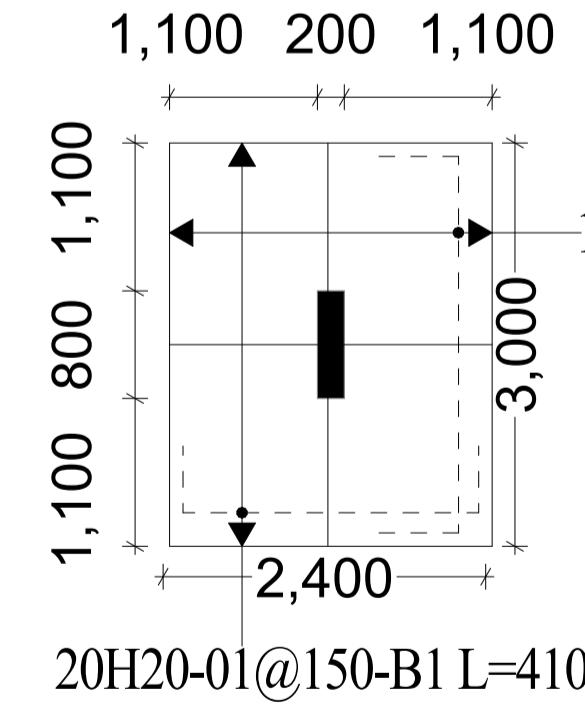
8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC work to structural engineer's details.
10. Depth of foundation to be determined on site to S.E's approval.
11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.



COLUMN C2 N0= 54



FOOTING B3

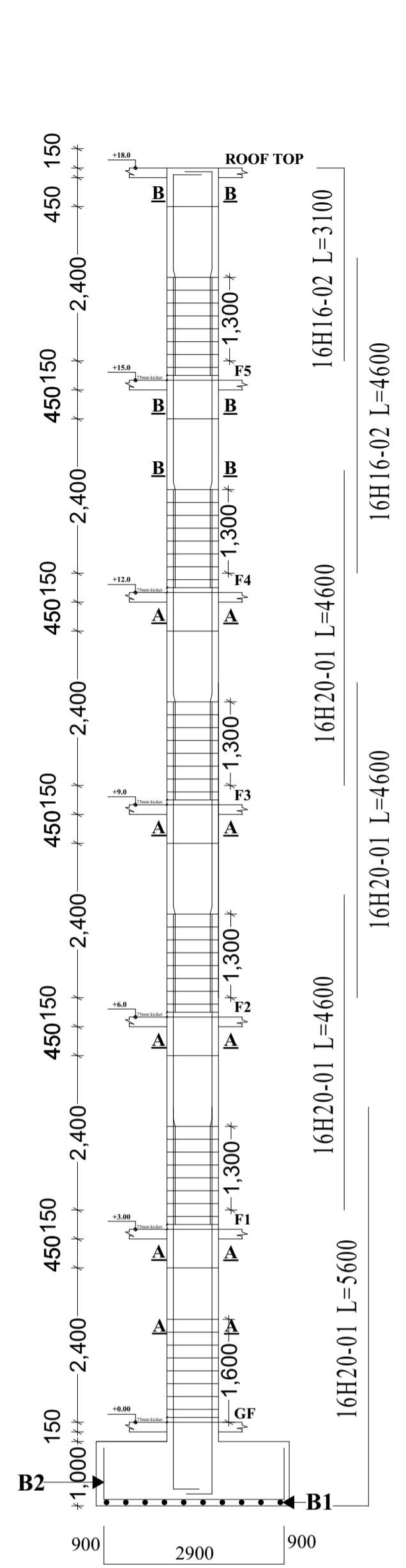
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MECHANICAL

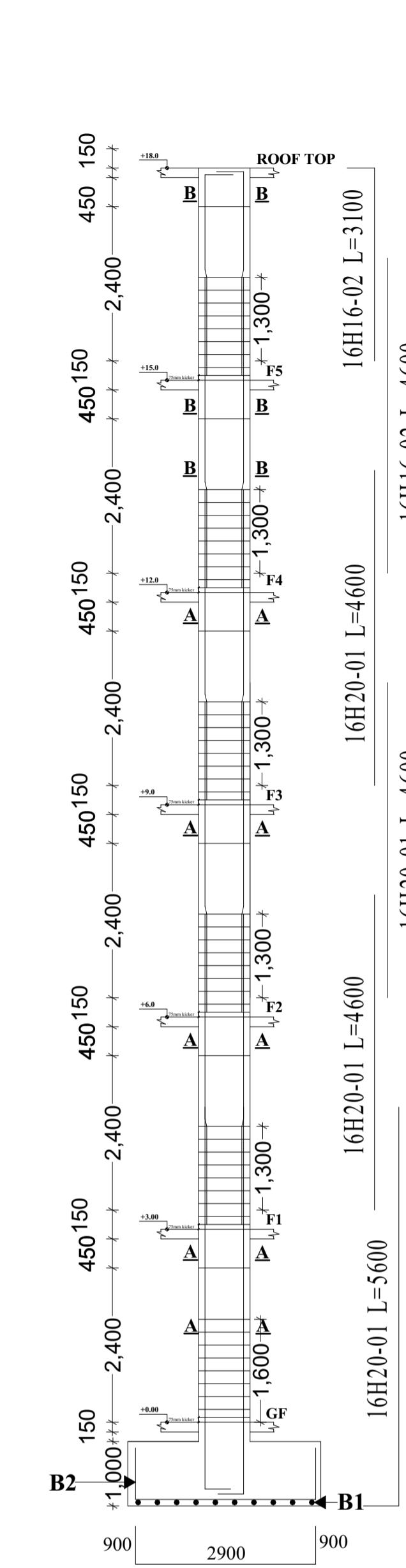
- 12. All plumbing and drainage to comply with city councils specifications.
- 13. All service ducts to be accessible from all floors.
- 14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
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- 18. The storm water drain to comply to BSS 556.
- 19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
- 20. Minimum slopes in drainpipes shall be 1%.
- 21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
- 22. All testing of pipes must be completed before plastering.
- 23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.

ELECTRICAL

- 24. All conduits must be laid before plastering.

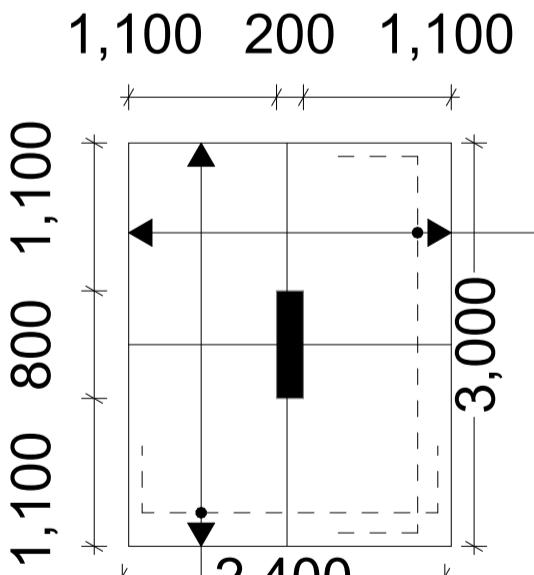


COLUMN C3 N0=28



COLUMN C4

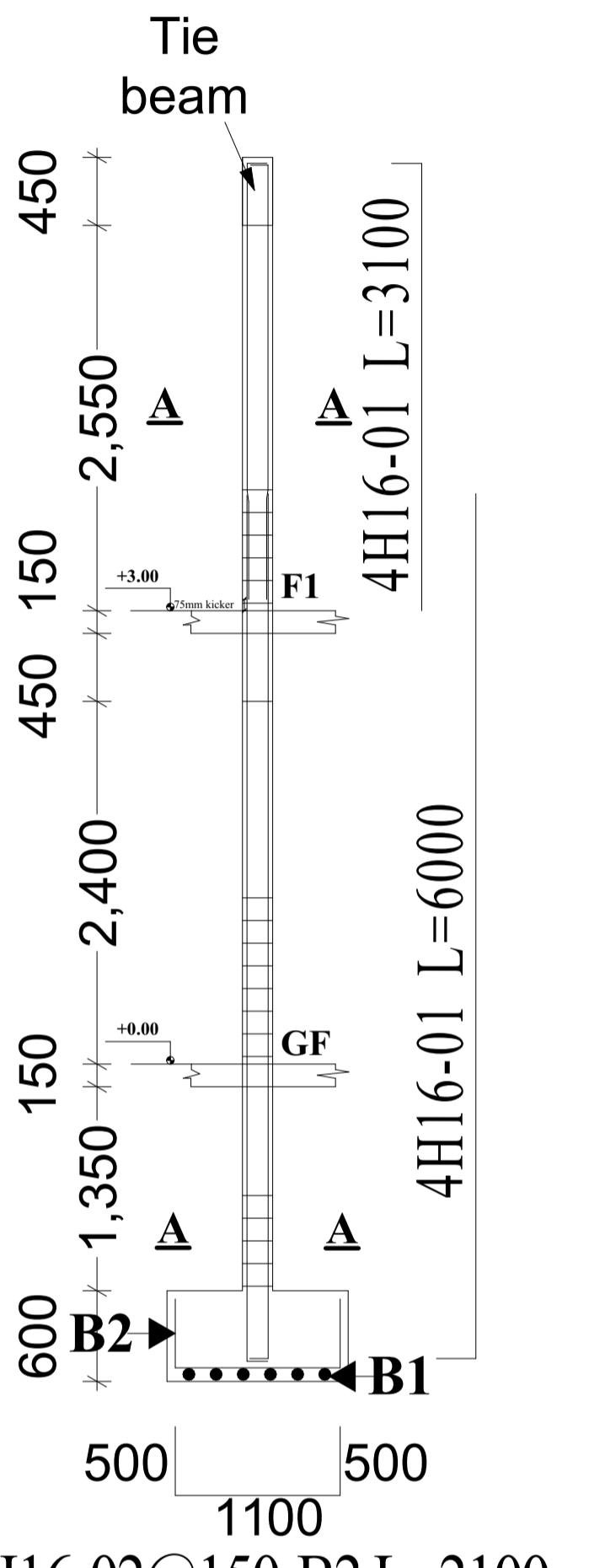
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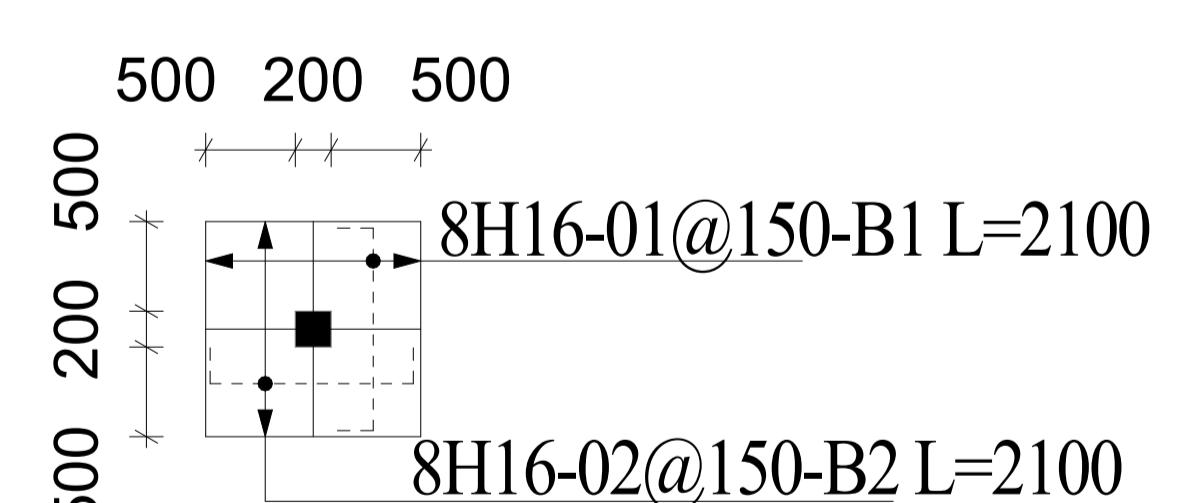
FOOTING B4

N0= 18

REVISIONS				DATE:14-06-2024	DES
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	OK
1					
2				DRAWING TITLE: STRUCTURAL-COLUMN DETAILS	REQ
3					
4					
5				CLIENT: AZUL TRADING LIMITED	B76



8H16-02@150-B2 L=2100



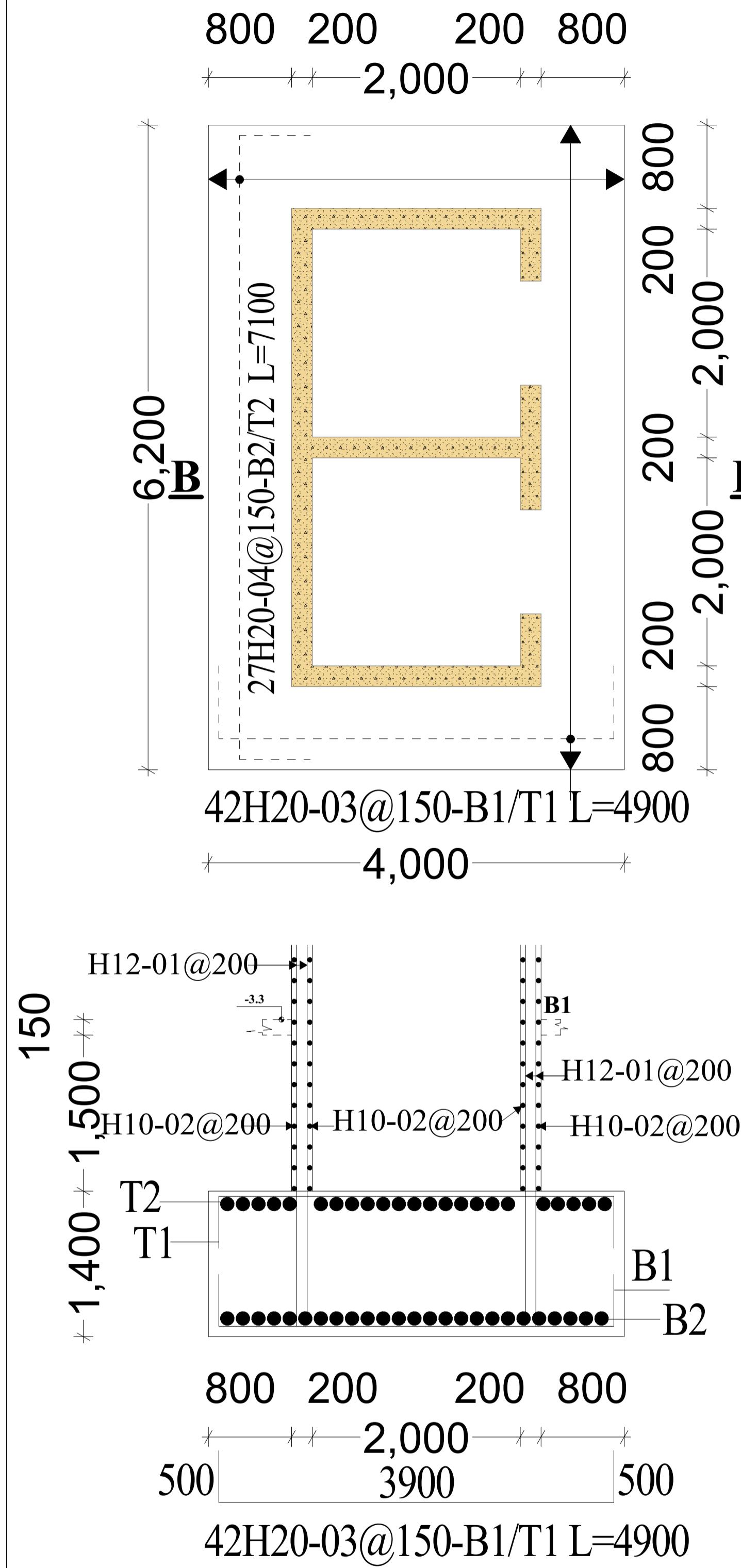
FOOTING B5

N0= 34

00

TYPICAL LIFT DETAILS

SCALE 1:25



LIFT SECTIONS

SECTION B-B

NOTES:

1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.
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CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.
5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
6. All soil under slab and around external foundations to be poisoned for termite control.
7. Window sills must be finished before internal plastering.

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC work to structural engineer's details.
10. Depth of foundation to be determined on site to S.E's approval.
11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

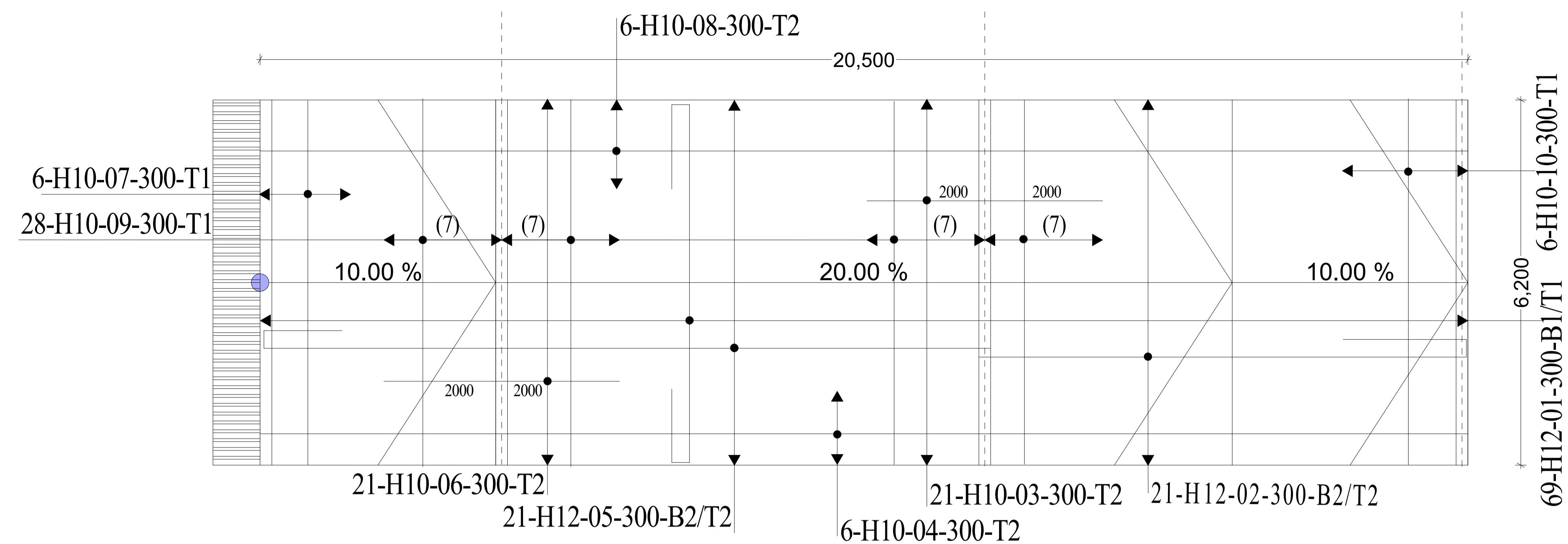
MECHANICAL

- 12. All plumbing and drainage to comply with city councils specifications.
- 13. All service ducts to be accessible from all floors.
- 14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
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- 16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
- 17. All under ground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 521.
- 18. The storm water drain to comply to BSS 556.
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ELECTRICAL

- 24. All conduits must be laid before plastering.

RAMP REINFORCEMENT DETAILS SCALE 1:25

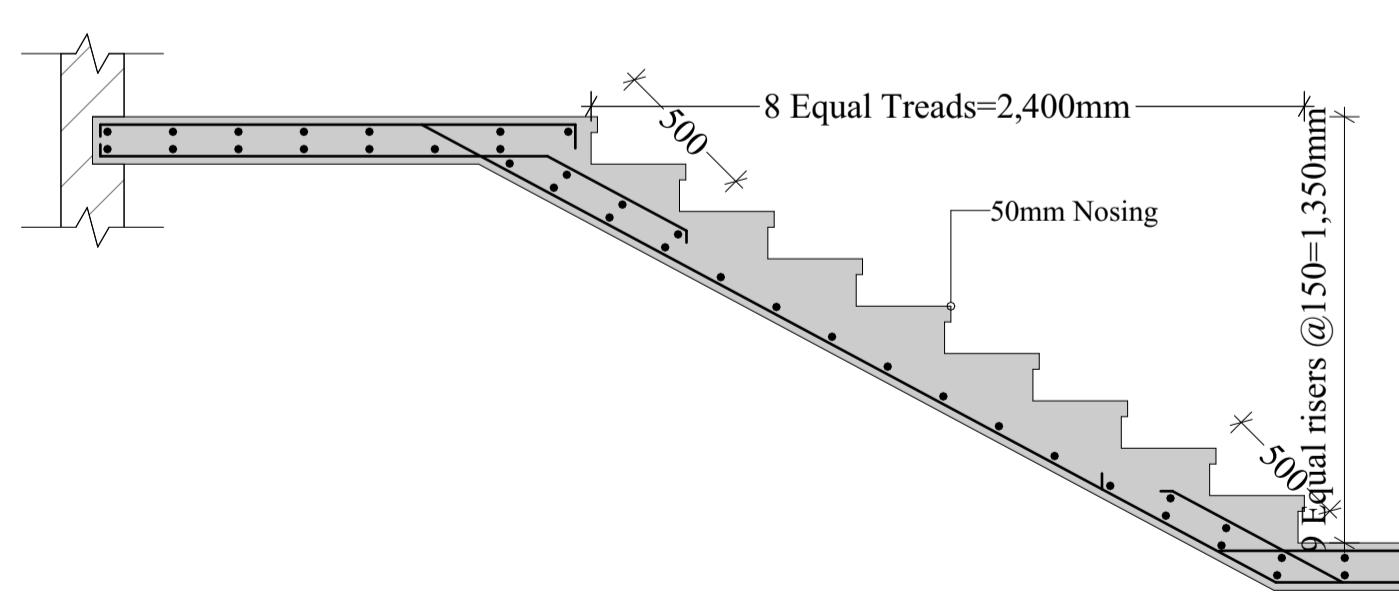


The diagram shows a rectangular building footprint with a hatched base and top. The interior is divided into rooms by vertical and horizontal lines. A large room on the left has a smaller room attached to its left side. A circular room is located at the bottom right. Dimension lines indicate the following measurements:

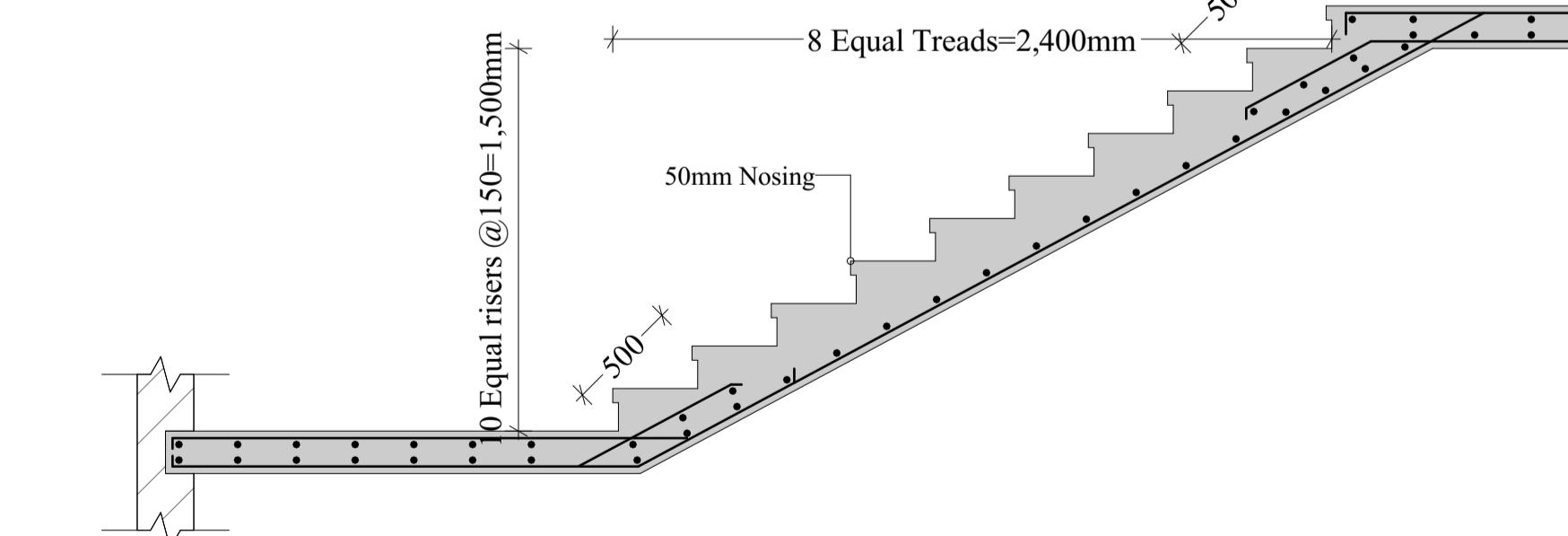
- Width of the main building footprint: 3,600
- Width of the attached room: 100
- Length of the attached room: 1,200
- Length of the main building footprint: 1,200
- Height of the main building footprint: 100

Labels L-5 and L-4 are positioned near the top and bottom right corners of the main room respectively.

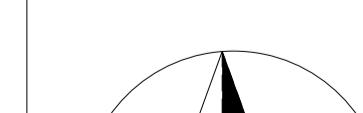
TYPICAL STAIRCASE PLAN 1:



SECTION L-4 1:2



SECTION L-5 1:25

REVISIONS				DATE:14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE-AS GIVEN
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C		DR. ARCH RALWALA	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	
1				DRAWING TITLE: STUCTURAL-RAMP STAIRS & LIFT SHAFTS		OKOTH DAVIS	DR. KIVINDU	
2							DR. KARIUKI	
3							ENG. YIMAM	
4				CLIENT: AZUL TRADING LIMITED		B76/4701/2020	QS. MULAKU	
5							COURSE CODE: BCM 410	



A-001

GROUND FLOOR

1:75

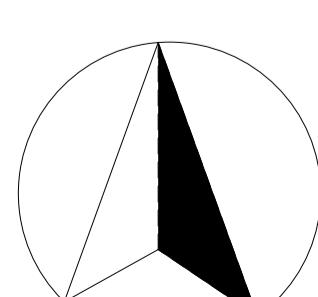
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- Slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
- All soil under slab and around external foundations to be poisoned for termite control. Window sills must be finished before internal plastering.
- All cells on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
- All RC work to structural engineer's details.
- Depth of foundation to be determined on site to S.E.'s approval.
- All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL:

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- All service ducts to be accessible from all floors.
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- SVP (soil vent pipes) to be provided at the head of the drainage.
- Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
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- Storm water drain to comply to BSS 556.
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- All conduits must be laid before plastering.
- All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:75
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: PLANS, SECTIONS ELEVATIONS - STAFF RESIDENCE REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED B76/4701/2020	OKOTH DAVIS DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YINAM QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	COURSE CODE: BCM 410	
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A-002

1ST-5TH FLOOR

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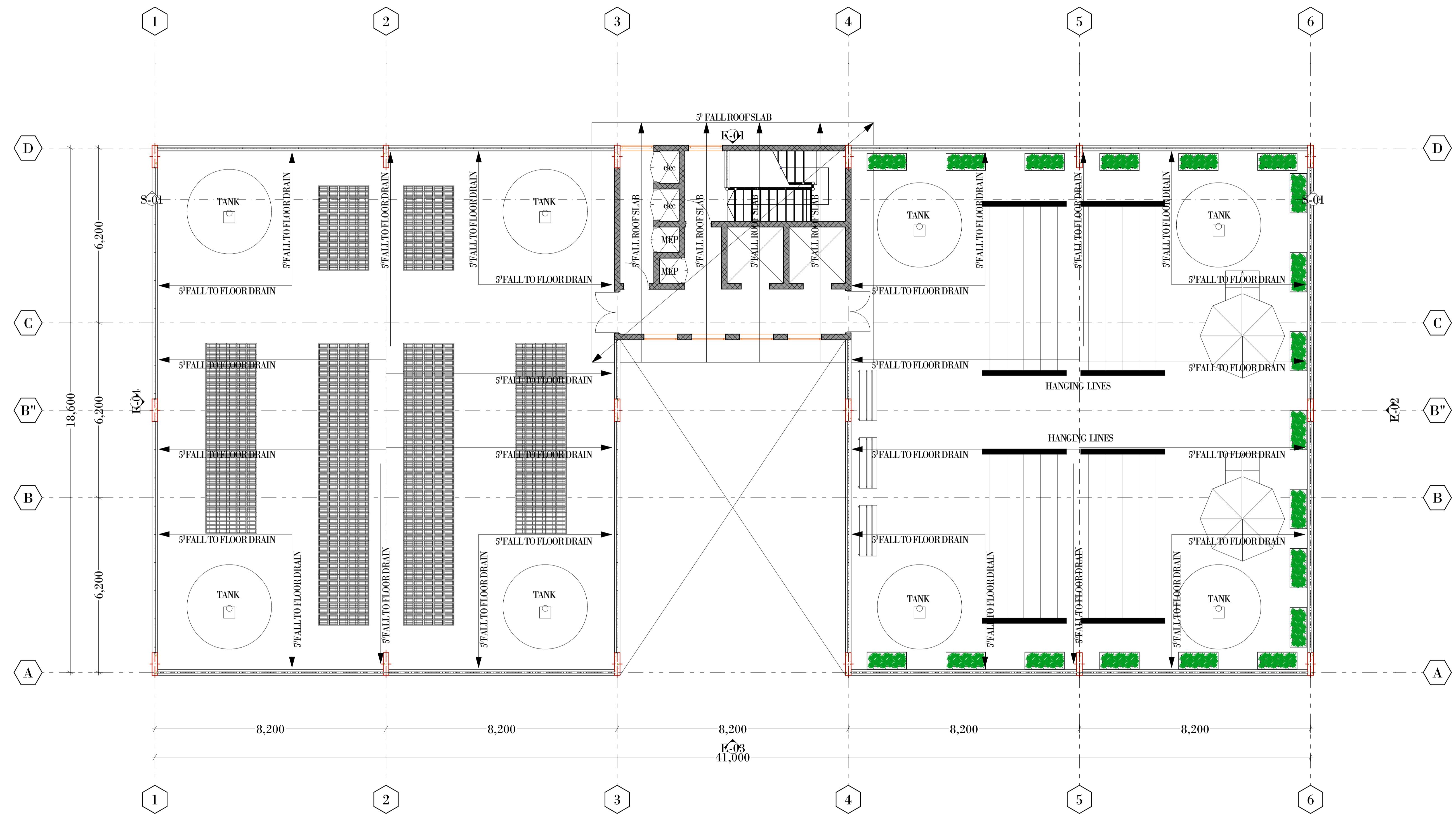
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 - Slab at grade to be poured at 100 Gauge polythene on 50 mm stone dust blinding on hardcore.
 - All soil under slab and around external foundations to be poisoned for termite control.
 - Window sills must be finished before internal plastering.
- All cells on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
- All RC work to structural engineer's details.
- Depth of foundation to be determined on site to S.E.'s approval.
- All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

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- SVP (soil vent pipes) to be provided at the head of the drainage.
- Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
- All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
- Storm water drain to comply to BSS 556.
- All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
- Minimum slopes in drainpipes shall be 1%.
- No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
- All testing of pipes must be completed before plastering.
- All mechanical work must be coordinated with electrical work. Any conflicts must be resolved before work begins.
- ELECTRICAL:**
 - All conduits must be laid before plastering.
 - All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:75	
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	OKOTH DAVIS	DR. ARCH RALWALA DR. KIVINDU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO		
1				DRAWING TITLE: PLANS, SECTIONS ELEVATIONS - STAFF RESIDENCE	REGISTRATION NUMBER:	CLIENT: AZUL TRADING LIMITED	B76/4701/2020		
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A-003

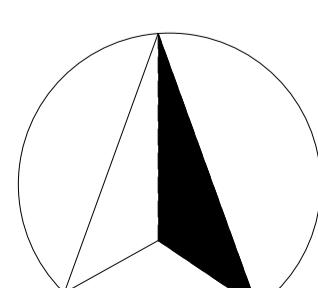
ROOF TOP PLAN

1:75

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CONSTRUCTION
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5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
6. All soil under slab and around external foundations to be poisoned for termite control.
7. Window sills must be finished before internal plastering.
CIVIL
8. All cuts on cut embankment to be stabilized. The slope is not to exceed the natural angle regrade of the soil.
STRUCTURAL
9. All RC work to structural engineer's details.
10. Depth of foundation to be determined on site to S.E.'s approval.
11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL
12. All plumbing and drainage to comply with city councils specifications.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
15. SVP (soil vent pipes) to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
17. All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
18. All storm water drain to comply to BSS 556.
19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
20. Minimum slopes in drainpipes shall be 1%.
21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
22. All testing of pipes must be completed before plastering.
23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.
ELECTRICAL
24. All conduits must be laid before plastering.
25. All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:75
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: PLANS, SECTIONS ELEVATIONS - STAFF RESIDENCE REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED	OKOTH DAVIS DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YINAM B76/4701/2020	QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTFOLIO COURSE CODE: BCM 410	
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E-01

BACK



E-02

SIDE

1:100



E-03

FRONT



E-04

SIDE

1:100

NOTES:

- All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.
- The contractor must check and verify all dimensions on site before commencement of work. Any discrepancies must be notified immediately to the architect.
- All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architectural or consultants drawing.
- CONSTRUCTION:**
 - Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.
 - All slab at grade to be poured to 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
 - All soil under slab and around external foundations to be poisoned for termite control.
 - Window sills must be finished before internal plastering.
- All cells on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
- STRUCTURAL:**
 - Depth of foundation to be determined on site to S.E's approval.
 - All RC work to structural engineer's details.
 - 11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

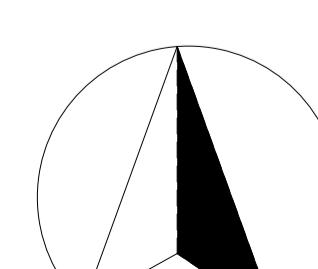
MECHANICAL:

- All plumbing and drainage to comply with city councils specifications.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
15. SVP (soil vent pipes) to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
17. All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5255.
18. All storm water drain to comply to BSS 556.
19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
20. Minimum slopes in drainpipes shall be 1%.
21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
22. All testing of pipes must be completed before plastering.
23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.

ELECTRICAL:

24. All conduits must be laid before plastering.
25. All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100					
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C		DRAWING TITLE: PLANS, SECTIONS ELEVATIONS - STAFF RESIDENCE	REGISTRATION NUMBER: B76/4701/2020	CLIENT: AZUL TRADING LIMITED	QS. MULAKU				
1				OKOTH DAVIS									
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S-01

1:75

STAFF ACCOMODATION-SECTION

NOTES:

- All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions are used.
- The contractor must check and verify all dimensions on site before commencement of work. Any discrepancies must be notified immediately to the architect.
- All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architectural or consultants drawing.
- Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.
- All slab to grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
- All soil under slab and around external foundations to be poisoned for termite control. Window sills must be finished before internal plastering.
- All walls on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
- All RC work to structural engineer's details.
- Depth of foundation to be determined on site to S.E.'s approval.
- All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

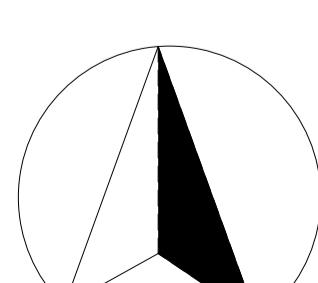
MECHANICAL:

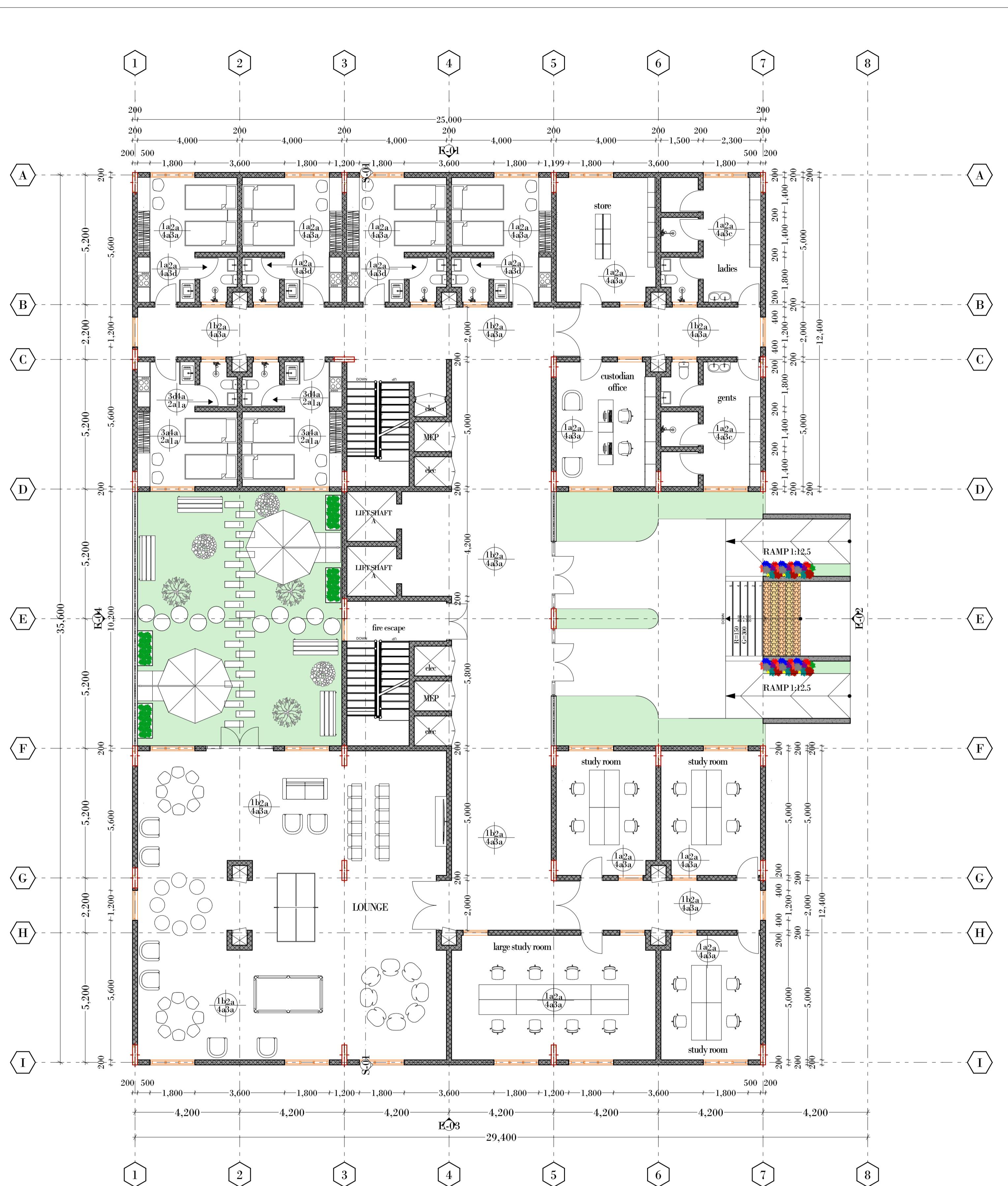
- All plumbing and drainage to comply with city councils specifications.
- All service ducts to be accessible from all floors.
- Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
- SVP (soil vent pipes) to be provided at the head of the drainage.
- Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround.
- All underground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5256.
- All storm water drain to comply to BSS 556.
- All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C.
- Minimum slopes in drainpipes shall be 1%.
- No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
- All testing of pipes must be completed before plastering.
- All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.

ELECTRICAL:

- All conduits must be laid before plastering.
- All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:75
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C		REGISTRATION NUMBER: B76/4701/2020	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	COURSE CODE: BCM 410
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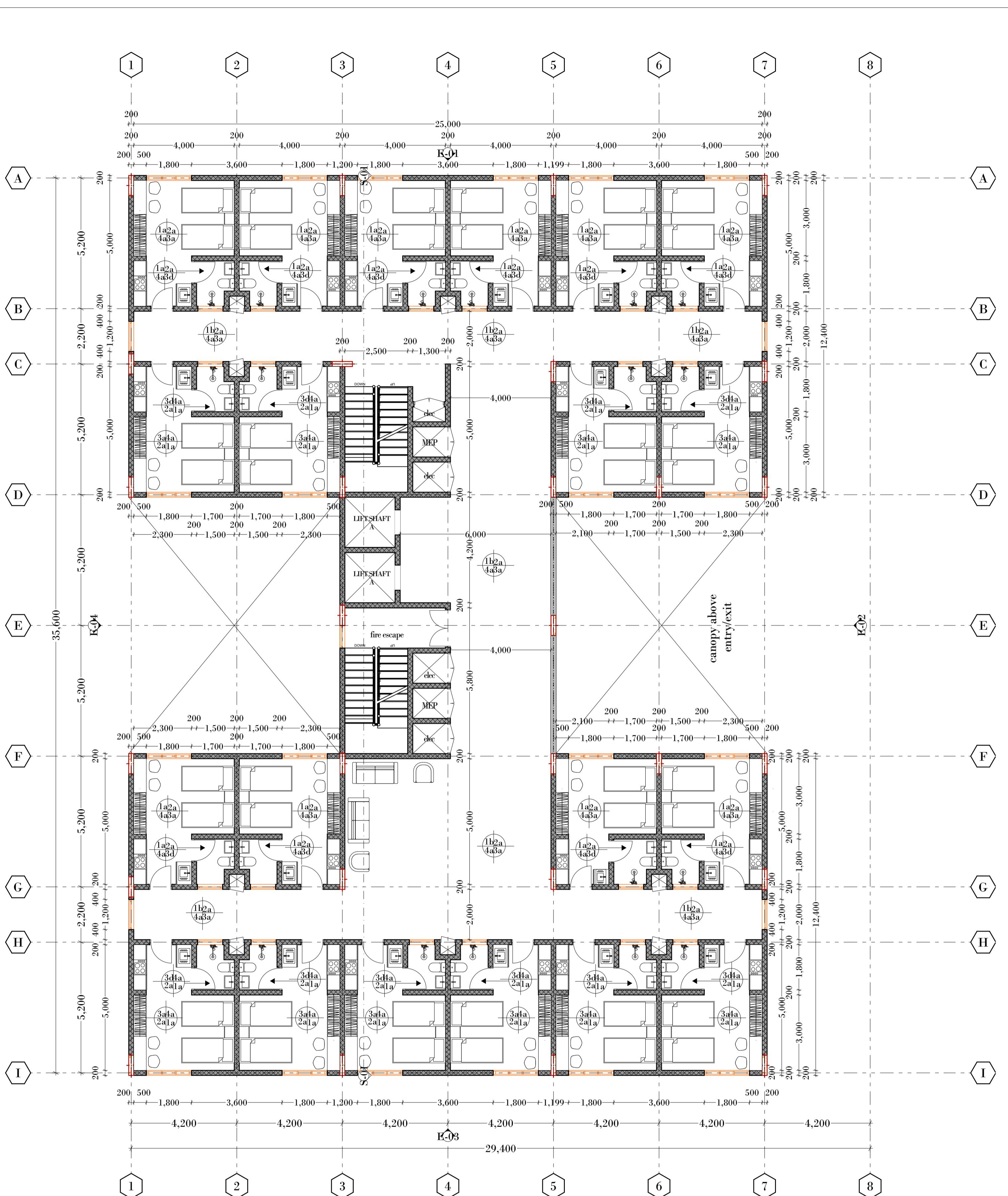


A-001

GROUND FLOOR

1:100

<p>NOTES:</p> <ol style="list-style-type: none"> 1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used. 2. The contractor must check and verify all dimensions on site before commencement of work. Any discrepancies must be notified immediately to the architect. 3. All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architectural or consultants drawing. <p>CONSTRUCTION</p> <ol style="list-style-type: none"> 4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level. 5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore. 6. All soil under slab and around external foundations to be poisoned for termite control. 7. Window sills must be finished before internal plastering. <p>CIVIL</p> <ol style="list-style-type: none"> 8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil. <p>STRUCTURAL</p> <ol style="list-style-type: none"> 9. All RC work to structural engineer's details. 10. Depth of foundation to be determined on site to S.E's approval. 11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course. 	<p>MECHANICAL</p> <ol style="list-style-type: none"> 12. All plumbing and drainage to comply with city councils specifications. 13. All service ducts to be accessible from all floors. 14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates. 15. SVP (soil vent pipes) to be provided at the head of the drainage. 16. Drain pipes passing beneath buildings and driveways to be encased in 150 mm concrete surround. 17. All under ground foul and waste drainpipes shall be UPVC to comply to BSS 4514 & 5255. 18. The storm water drain to comply to BSS 556. 19. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C. 20. Minimum slopes in drainpipes shall be 1%. 21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E. 22. All testing of pipes must be completed before plastering. 23. All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins. <p>ELECTRICAL</p> <ol style="list-style-type: none"> 24. All conduits must be laid before plastering. 25. All electrical work must be coordinated with mechanical drawings.
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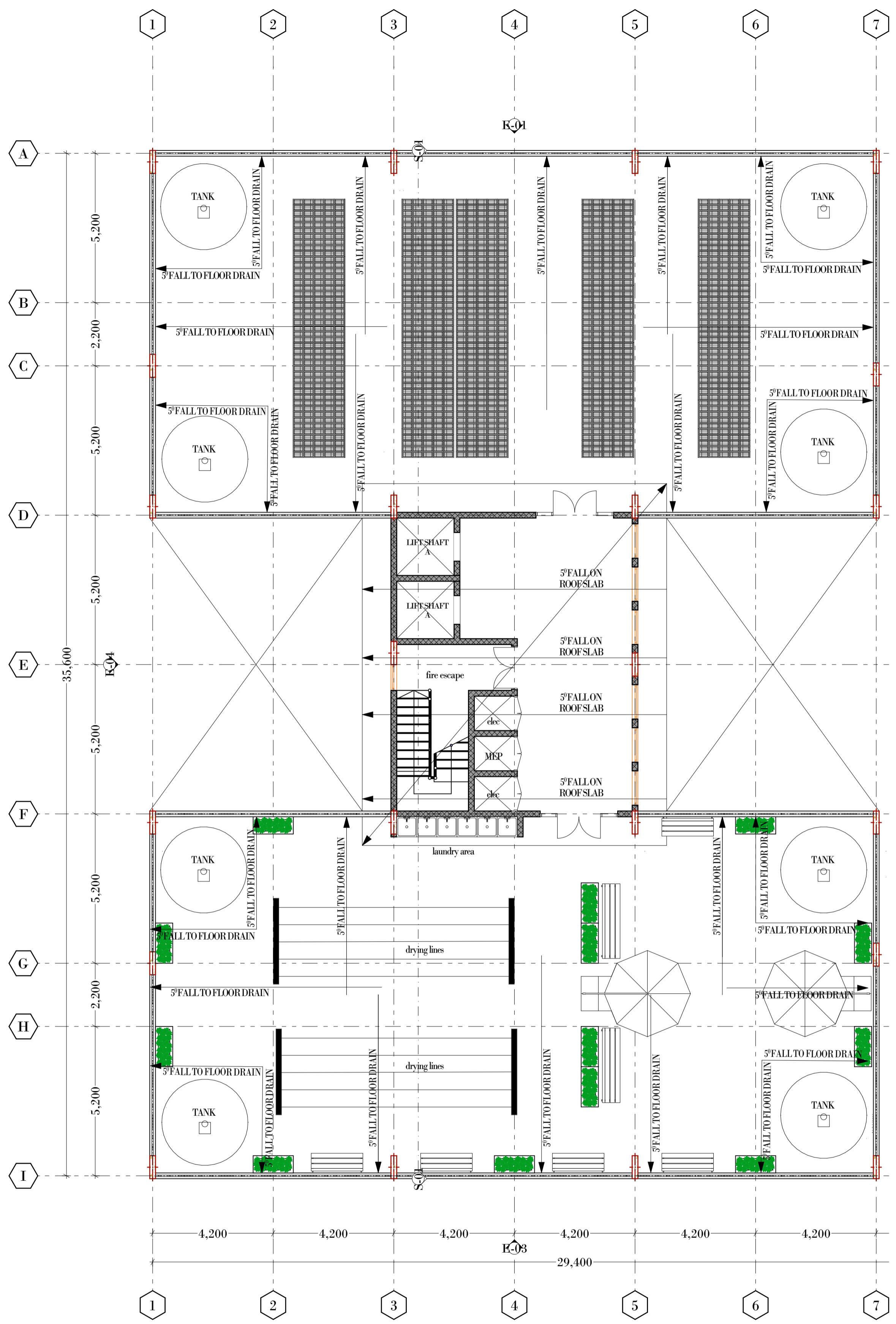


A-002

1ST -5TH FLOOR

COURSE:

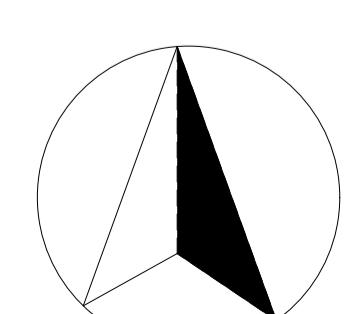
SCALE-1:100

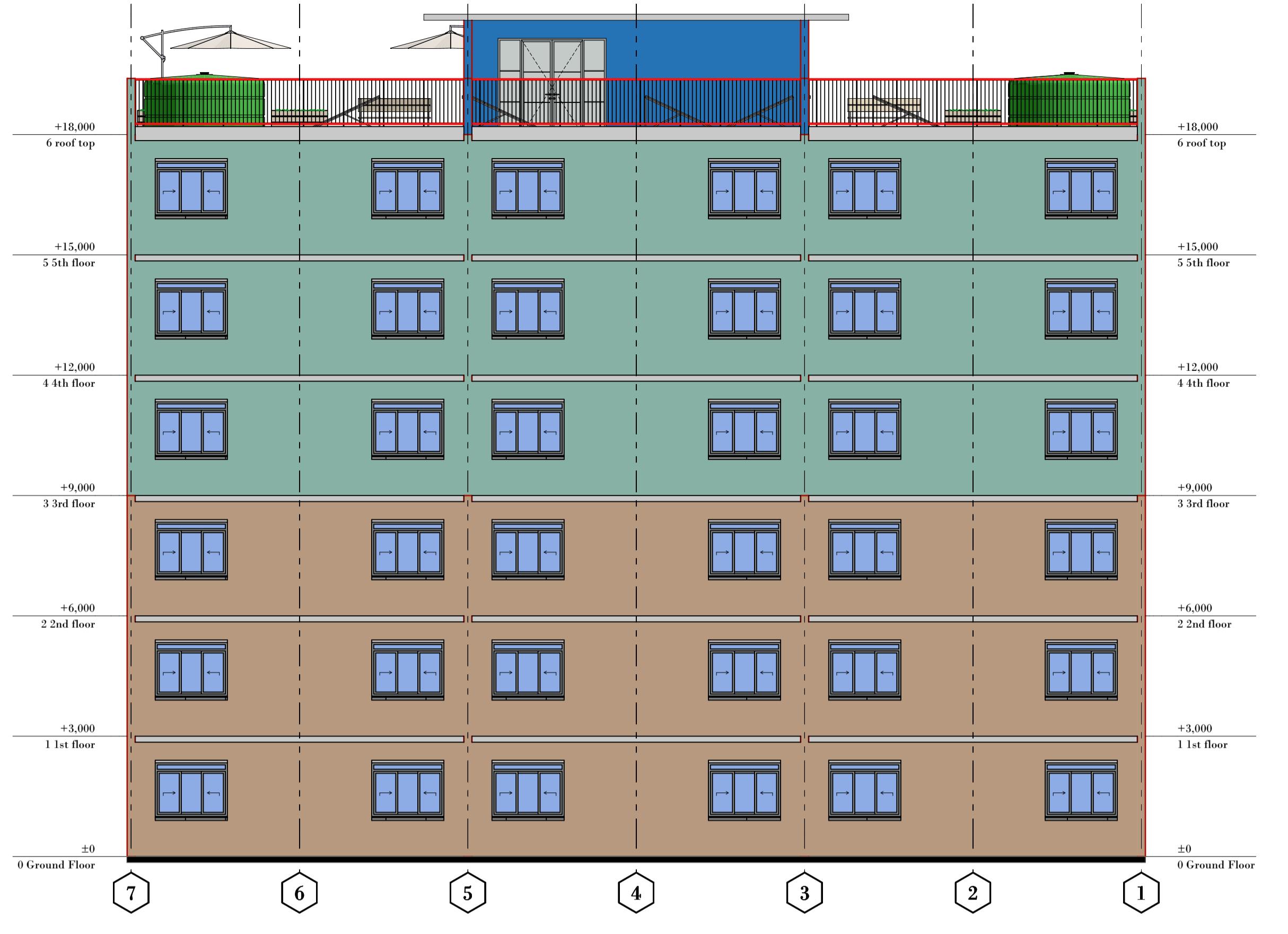


NOTES:
 1. All measurements are shown in millimeters. Drawings not to be scaled. Only figured dimensions to be used.
 2. The contractor must check and verify all dimensions on site before commencement of work.
 Any discrepancies must be notified immediately to the architect.
 3. All sections are to be read as per floor plan and all drawings must be read in concert with each other. Any discrepancies must be notified immediately to the architect and clarified consulting the architectural or consultants drawing.
CONSTRUCTION:
 4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150 mm above ground level.
 5. All slab at grade to be poured at 1000 Gauge polythene on 50 mm stone dust blinding on hardcore.
 6. All soil under slab and around external foundations to be poisoned for termite control.
 7. Window sills must be finished before internal plastering.
CIVIL:
 8. All cuts on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
STRUCTURAL:
 9. All RC work to structural engineer's details.
 10. Depth of foundation to be determined on site to S.E's approval.
 11. All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL:
 12. All plumbing and drainage to comply with city councils specifications.
 13. All service ducts to be accessible from all floors.
 14. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
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 20. Minimum slopes in drainpipes shall be 1%.
 21. No chases will be allowed in the slabs for pipes. Sleeves will be allowed with the written approval of the S.E.
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 23. All mechanical work must be coordinated with electrical work. Any conflicts must be resolved before work begins.
ELECTRICAL:
 24. All conduits must be laid before plastering.
 25. All electrical work must be coordinated with mechanical drawings.

REVISIONS				DATE: 14-06-2024	DESIGNED BY:	CHECKED BY:	COURSE:	SCALE: 1:100
NO	DATE	DESCRIPTION	CHECKED BY	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C DRAWING TITLE: PLANS, SECTION ELEVATIONS - STUDENT HOSTEL REGISTRATION NUMBER: CLIENT: AZUL TRADING LIMITED	OKOTH DAVIS DR. ARCH RALWALA DR. KIVINDU DR. KARIUKI ENG. YINAM B76/4701/2020	QS. MULAKU	CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO COURSE CODE: BCM 410	
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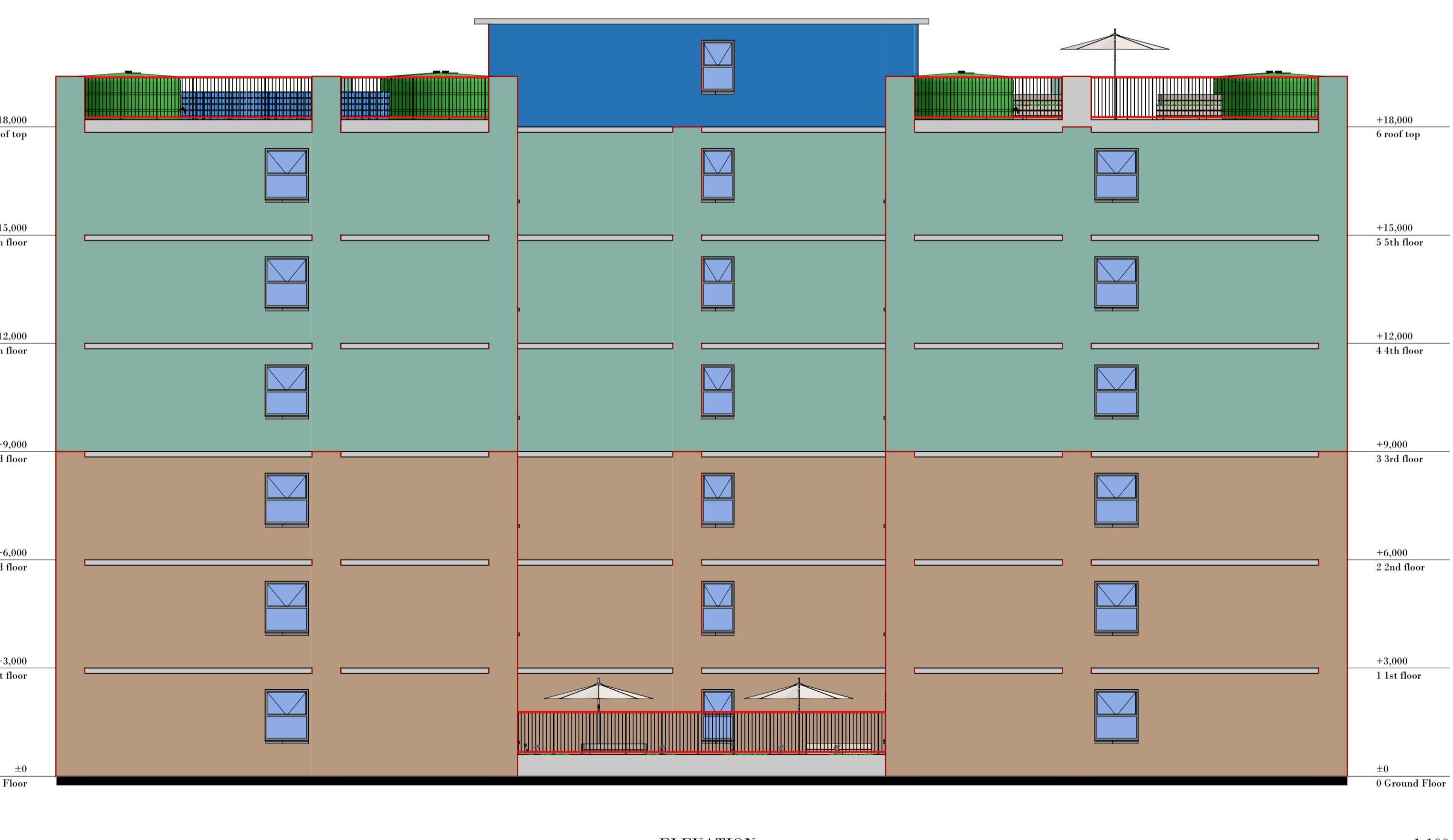
E-01 ELEVATION 1:100



E-02 ELEVATION 1:100



E-03 ELEVATION 1:100



E-04 ELEVATION 1:100

NOTES:

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 - All soil under slab and around external foundations to be poisoned for termite control.
 - Window sills must be finished before internal plastering.
 - All cells on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.
- STRUCTURAL:**
 - All RC work to structural engineer's details.
 - Depth of foundation to be determined on site to S.E.'s approval.
 - All walls less than 200 mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL:

- All plumbing and drainage to comply with city councils specifications.
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- All mechanical work must be coordinated with electrical work. Any conflicts must be clarified before work begins.
- Electrical
 - All conduits must be laid before plastering.
 - All electrical work must be coordinated with mechanical drawings.

NO	DATE	DESCRIPTION	CHECKED BY	REVISIONS	DATE: 14-06-2024	PROJECT TITLE: PROPOSED VOCATIONAL SCHOOL ON LR/209/18650 SOUTH C	DESIGNED BY: OKOTH DAVIS	CHECKED BY: DR. ARCH RALWALA DR. KIVINDU	COURSE: CONSTRUCTION DESIGN IMPLEMENTATION PORTOFOLIO	SCALE-1:100
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DRAWING TITLE: PLANS, SECTION ELEVATIONS - STUDENT HOSTEL
REGISTRATION NUMBER:
CLIENT: AZUL TRADING LIMITED

B76/4701/2020

QS. MULAKU

COURSE CODE: BCM 410

