

HA.KELAA HEATH CENTER - ISOLATION WARD

*ARCHITECTURAL & STRUCTURAL DRAWINGS*

Client: Ministry of Health



RIYAN PRIVATE LIMITED

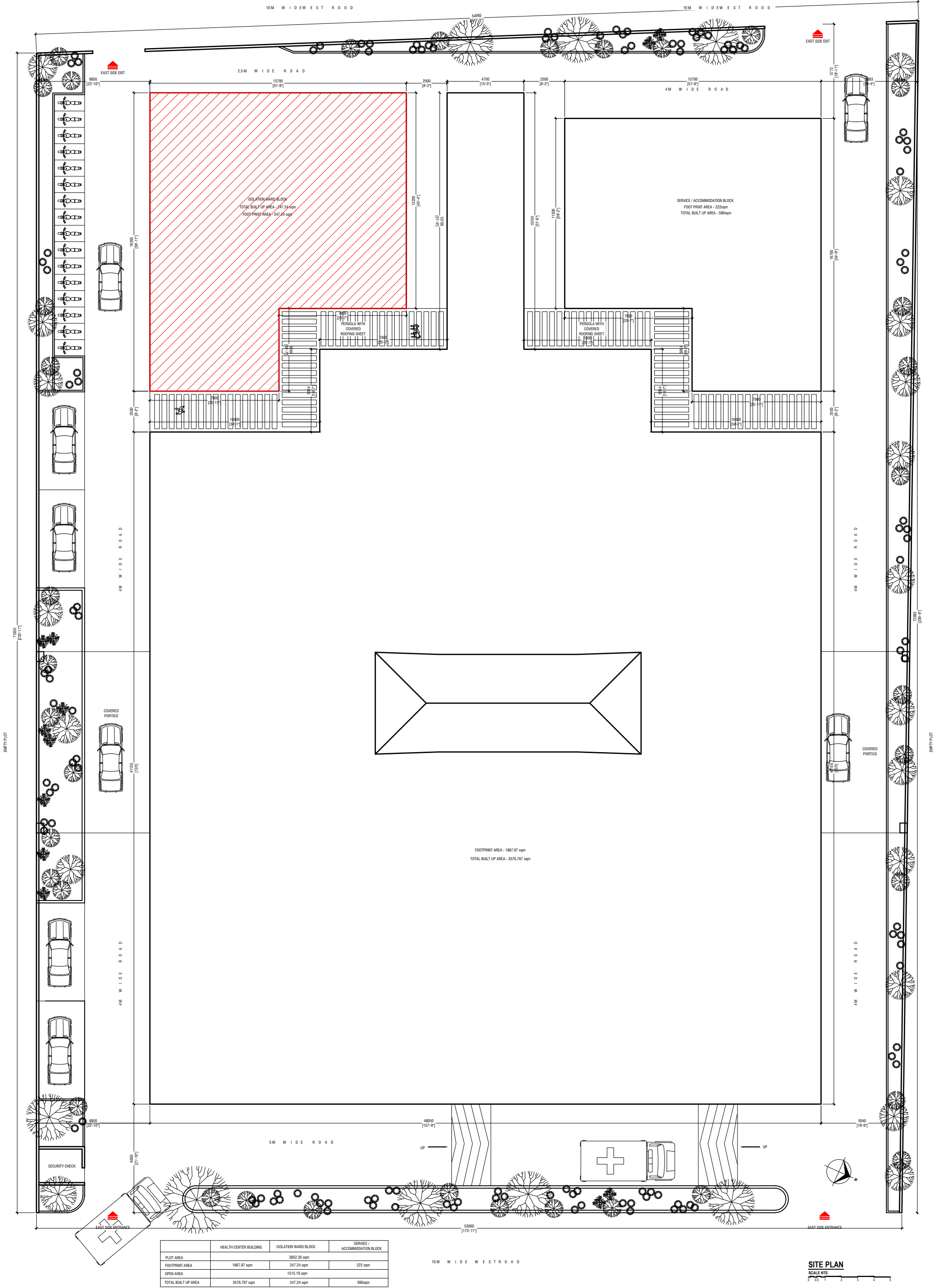
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3rd floor, H. Azumi, Ameneemagui, Male'

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TABLE OF CONTENTS

DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
A R C H I T E C T U R A L		---	---	---
A - 01 /12	SITE PLAN	---	---	---
A - 02 /12	GROUND FLOOR PLAN	---	---	---
A - 03 /12	ROOF PLAN	---	---	---
A - 04 /12	ELEVATION E1 , ELEVATION E2 & SECTION X-X	---	---	---
A - 05 /12	DOOR & WINDOW SCHEDULE - 1	---	---	---
A - 06 /12	DOOR & WINDOW SCHEDULE - 2	---	---	---
A - 07 /12	DOOR & WINDOW SCHEDULE - 3 / VENTILATION SCHEDULE	---	---	---
A - 08 /12	FLOOR FINISHES PLAN	---	---	---
A - 09 /12	FLOOR FINISHES PLAN	---	---	---
A - 10 /12	REFLECTED CEILING FINISHES PLAN	---	---	---
A - 11 /12	WALL FINISHES PLAN	---	---	---
A - 12 /12	WALL FINISHES PLAN	---	---	---
S T R U C T U R A L				
S - 01 /10	GENERAL NOTES 01	---	---	---
S - 02 /10	GENERAL NOTES 02	---	---	---
S - 03 /10	GENERAL NOTES 03	---	---	---
S - 04 /10	GENERAL NOTES 04	---	---	---
S - 05 /10	GENERAL NOTES 05	---	---	---
S - 06 /10	FOUNDATION PLAN	---	---	---
S - 07 /10	COLUMN PLAN	---	---	---
S - 08 /10	ROOF BEAM PLAN	---	---	---
S - 09 /10	REINFORCEMENT PLAN	---	---	---
S - 10 /10	STRUCTURAL DETAILS	---	---	---



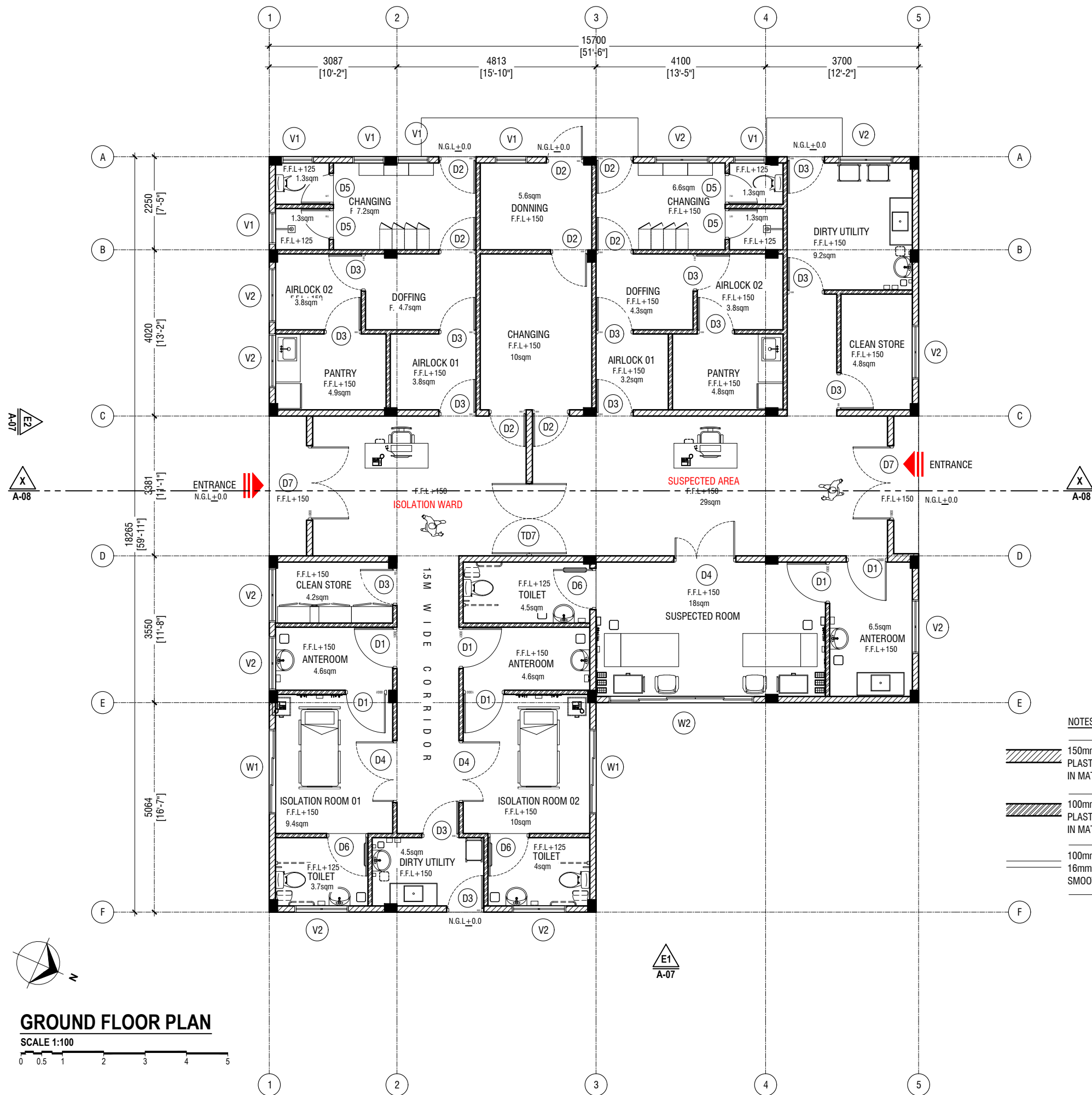
	HEALTH CENTER BUILDING	ISOLATION WARD BLOCK	SERVICE / ACCOMMODATION BLOCK
PLOT AREA		3852.30 sqm	
FOOTPRINT AREA	1867.87 sqm	247.24 sqm	222 sqm
OPEN AREA		1515.19 sqm	
TOTAL BUILT UP AREA	3576.767 sqm	247.24 sqm	590sqm

SITE PLAN  
SCALE 1:500



Ha.Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R21114MOH - HAK  
Date: February 2022  
Architect : Mariyam Irasha Shareef  
Engineer : Zainal Abidheen Ali Rasheed  
Drawn by : Prabhakaran Nadimuthu  
Services : -  
Interior : -

Rev no	By	Date
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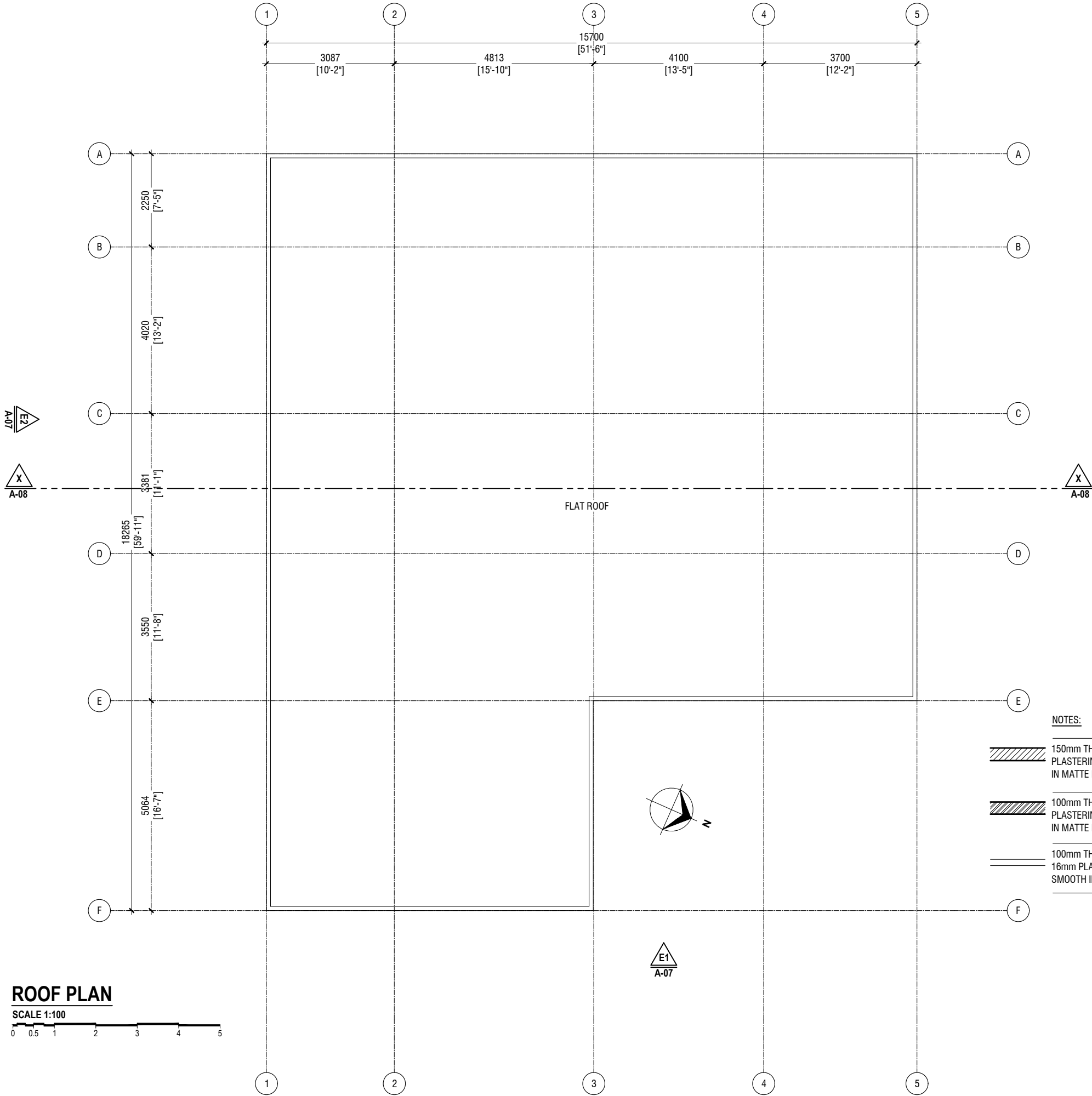


**Ha Kelaa Health Center**  
**Client: Ministry of Health**  
 Project Number: - R27114MOH - HAK  
 Date: February, 2022  
 Architect: Mariyam Irasha Shareef  
 Engineer: Zainal Abidin Ali Rasheed  
 Drawn by: Prabhakaran Nadimuthu  
 Interior: -

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Title: GROUND FLOOR PLAN

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NOTES:

- 150mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION WHITE PAINT FINISH UPTO BEAM/SLAB
- 100mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION WHITE PAINT FINISH UPTO BEAM/SLAB
- 100mm THICK 1000mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION WHITE PAINT FINISH

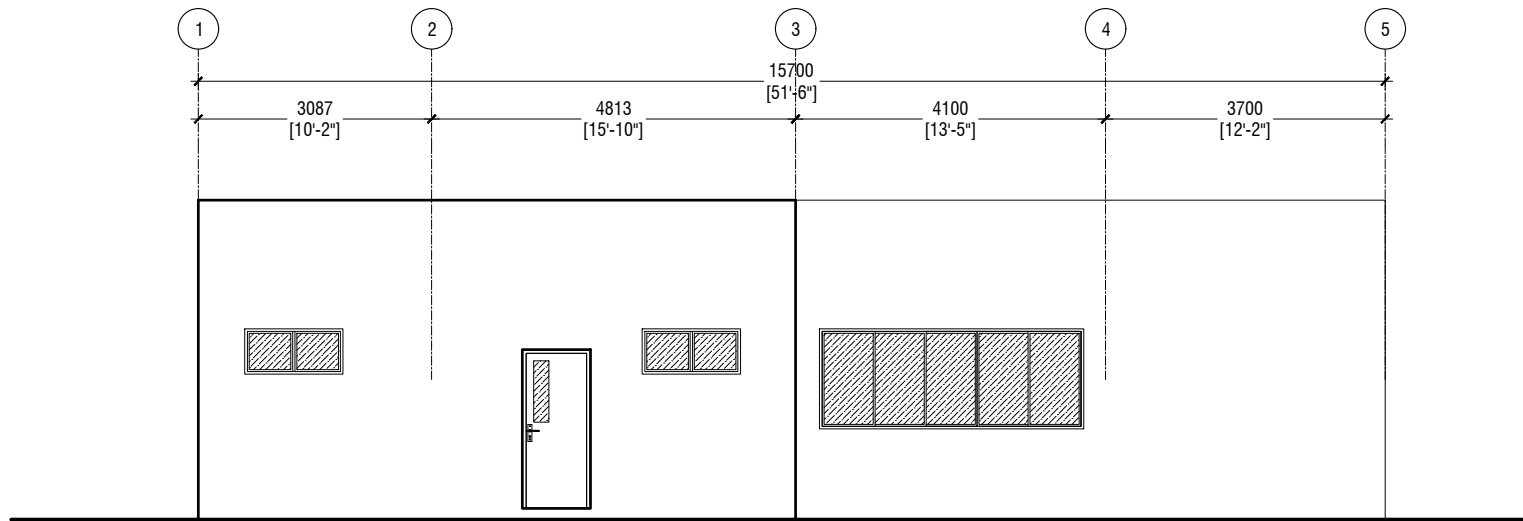
Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R27114MOH - HAK  
Date: February 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

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Title: ROOF PLAN

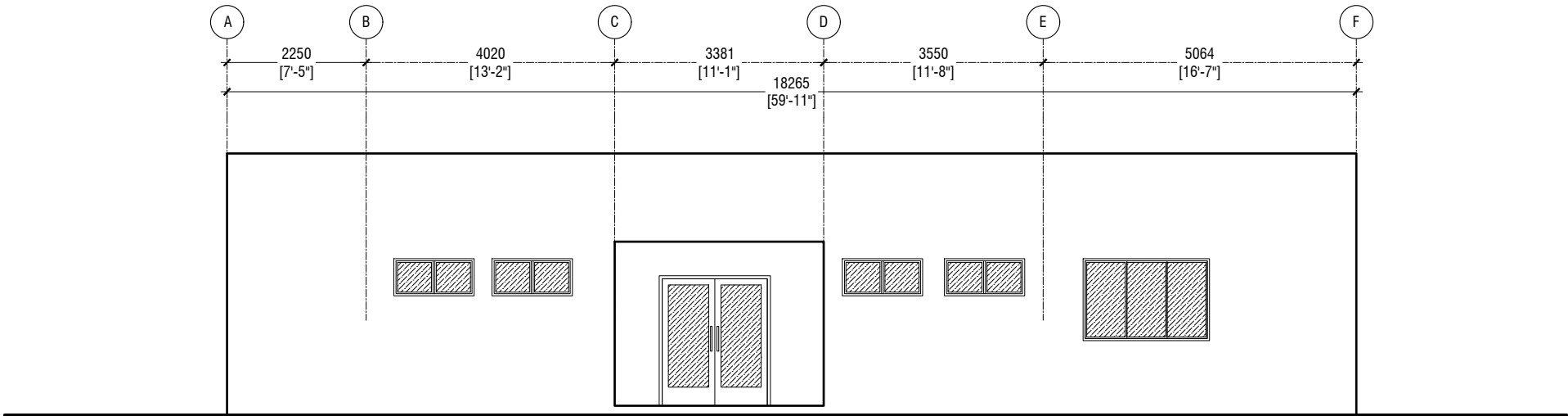
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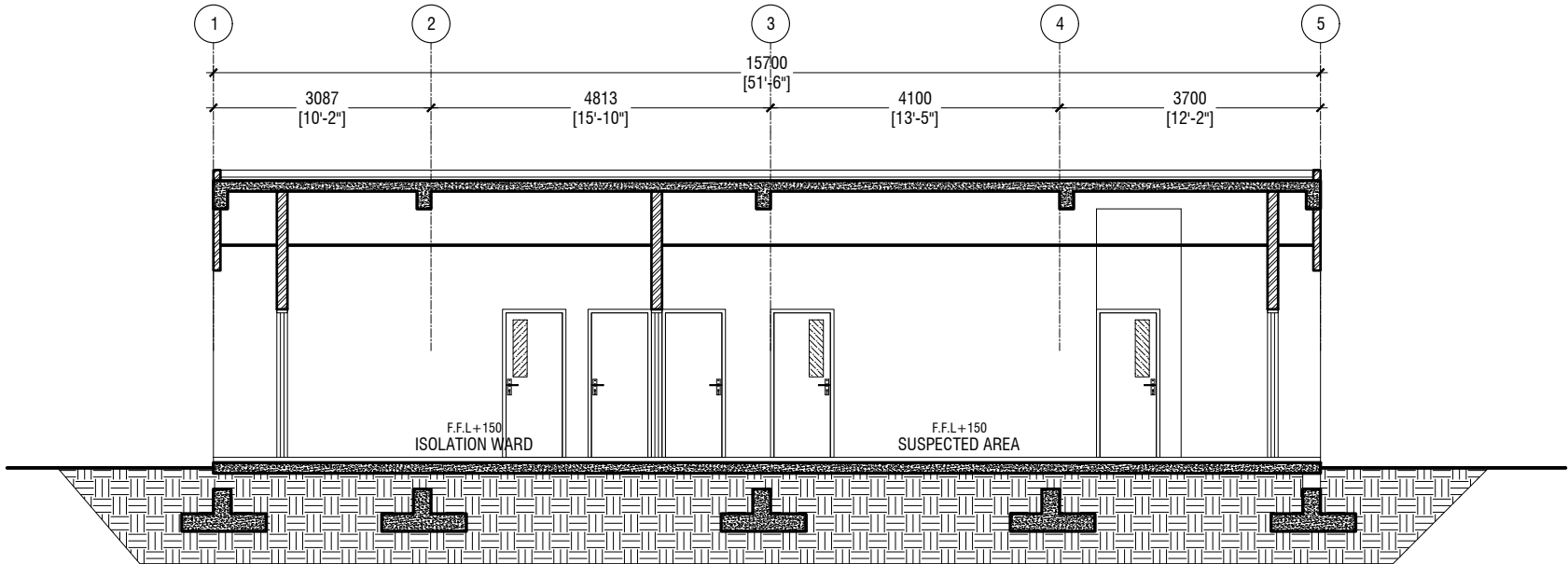
ELEVATION E1

SCALE 1:100



ELEVATION E2

SCALE 1:100



SECTION X-X

SCALE 1:100



Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R2114MOH - HAK  
Date: February, 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

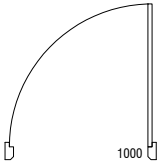
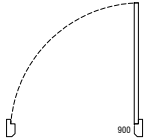
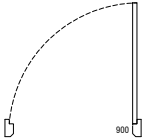
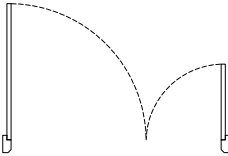
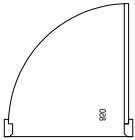
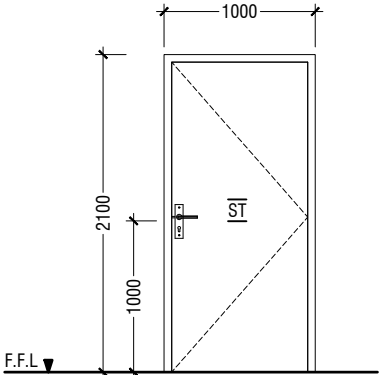
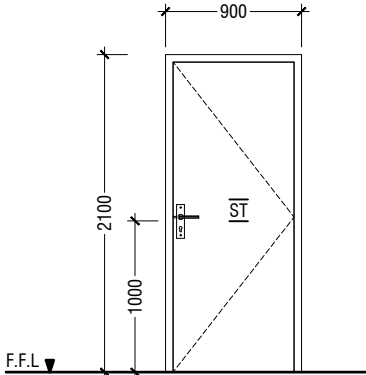
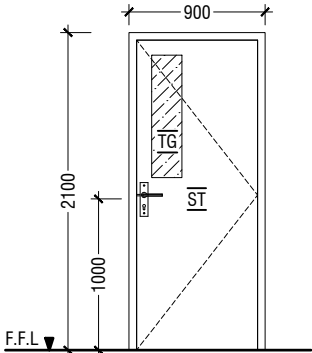
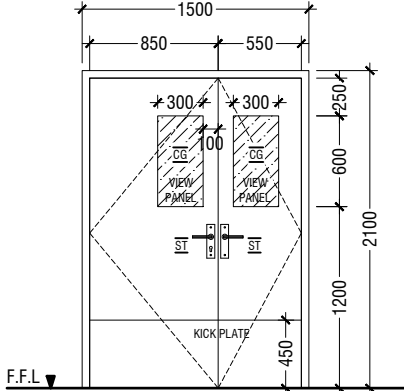
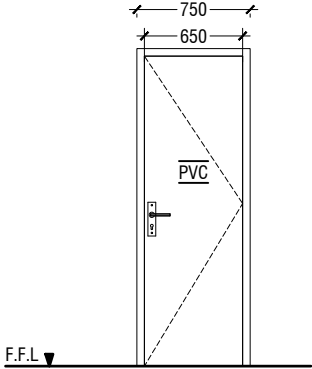
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Title: ELEVATION E1 & E2  
SECTION X-X

Page: A-04/12

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ELEMENT ID	D1      SOLID TIMBER DOOR - SWING DOOR	D2      SOLID TIMBER DOOR - SWING DOOR	D3      SOLID TIMBER DOOR - SWING DOOR	D4      SOLID TIMBER DOOR - SWING DOOR	D5      PVC DOOR - SWING DOOR
QUANTITY	06	08	14	03	04
W x H SIZE	1000 x 2100	900 x 2100	900 x 2100	1500 x 2100	850 x 2100
SILL HEIGHT	00	00	00	00	00
LINTEL HEIGHT	2100	2100	2100	2100	2100
2D SYMBOL					
ELEVATION					
FIRE RESISTANCE RATING	20 MINUTES	20 MINUTES	20 MINUTES	20 MINUTES	20 MINUTES
LOCATION	ANTEROOM	ENTRANCE	AIRLOCK, PANTRY, CLEAN, DIRTY UTILITY	ISOLATION ROOM	TOILET
AREA	1.84 SQM	1.64 SQM	1.64 SQM	2.87 SQM	1.53 SQM
REMARKS	FRAME: TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL PANEL: 32mm THICK SOLID TIMBER DOOR PANEL WITH WOOD STAIN AND SEMI MATTE VARNISH	FRAME: TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL PANEL: 32mm THICK SOLID TIMBER DOOR PANEL WITH WOOD STAIN AND SEMI MATTE VARNISH	FRAME: TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL PANEL: 32mm THICK SOLID TIMBER DOOR PANEL WITH WOOD STAIN AND SEMI MATTE VARNISH, 6mm THICK TEMPERED CLEAR GLASS VIEW PANEL.	FRAME: TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL PANEL: 32mm THICK SOLID TIMBER DOOR PANEL WITH WOOD STAIN AND SEMI MATTE VARNISH, 6mm THICK TEMPERED CLEAR GLASS VIEW PANEL.	FRAME: 50mm THICK PVC FRAME PANEL: PVC PANEL
HARWARE	HINGE : 4"x3"x3mm THK. BUTT HINGE, SS FINISH (4pcs) LOCKSET : MORTISE LOCK , SS FINISH, DOOR HANDLE LEVER TYPE DOOR CLOSER, DOOR STOPPER	HINGE : 4"x3"x3mm THK. BUTT HINGE, SS FINISH (4pcs) LOCKSET : MORTISE LOCK , SS FINISH, DOOR HANDLE LEVER TYPE DOOR CLOSER, DOOR STOPPER	HINGE : 4"x3"x3mm THK. BUTT HINGE, SS FINISH (4pcs) LOCKSET : MORTISE LOCK , SS FINISH, DOOR HANDLE LEVER TYPE DOOR CLOSER, DOOR STOPPER	HINGE : 4"x3"x3mm THK. BUTT HINGE, SS FINISH (8pcs) LOCKSET : EURO PROFILE DEAD LOCK WITH TURN & KEY CYLINDER & ESCUTCHEON, DOOR HANDLE LEVER TYPE. DOOR CLOSER FOR BIGGER PANEL, DOOR STOPPER.	LOCKSET : MORTISE LOCK , SS FINISH,DOOR HANDLE LEVER TYPE HINGE : 4"x3"x3mm THK. BUTT HINGE, SS FINISH (4pcs)

NOTE:-

- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- INTERNAL DOORS FRAME DEPTH TO BE WIDTH OF THE WALL.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.
- ALL EXTERIOR DOORS & WINDOWS SASHES TO BE 100mm WIDE

LEGEND:-

CG - CLEAR GLASS  
FCG - FIXED CLEAR GLASS  
FG - FROSTED GLASS  
FFG - FIXED FROSTED GLASS  
RG - REFLECTED GLASS  
MP - MARINE PLYWOOD

FRG - FIXED REFLECTED GLASS  
TG - TEMPERED CLEAR GLASS  
AL - ALUMINIUMN LOUVERS  
ST - SOLID TIMBER  
T - TIMBER  
PVC - POLYVINYL CHLORIDE

DOOR / WINDOW SCHEDULE - 01

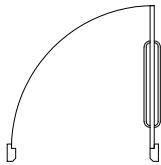
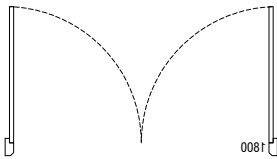
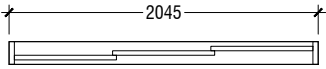
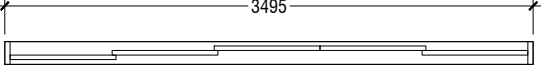
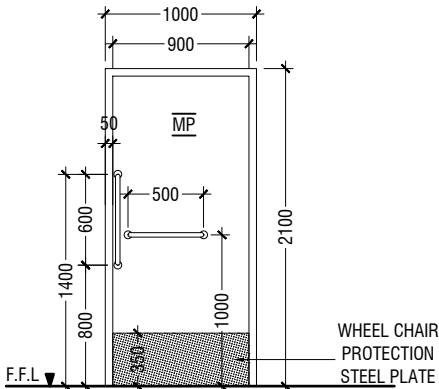
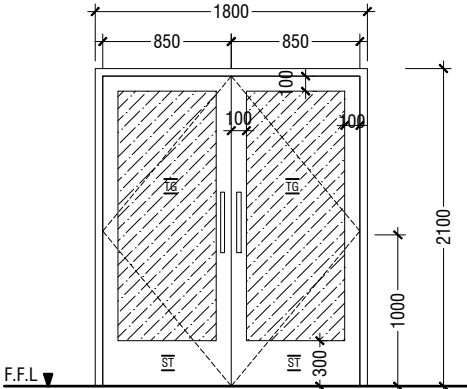
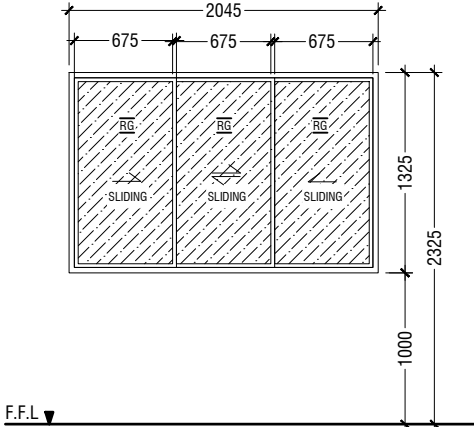
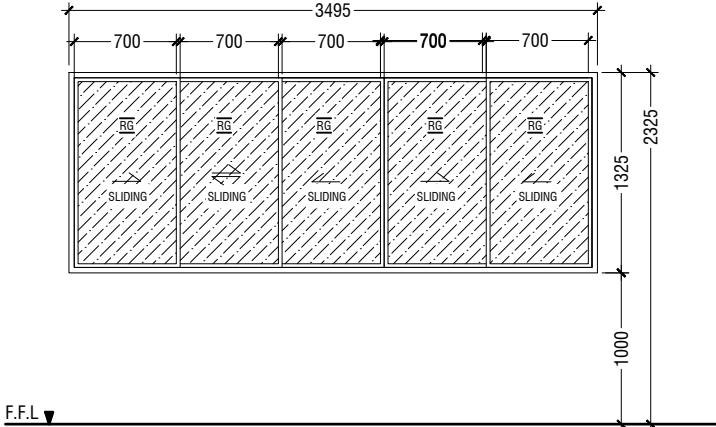


Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R2714MCH - HAK  
Date: February, 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidin Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

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Title: DOORS / WINDOWS  
SCHEDULE 01

Page: A-05/12

ELEMENT ID	D6      PLYWOOD DOOR - SWING DOOR	D7      SOLID TIMBER DOOR - SWING DOOR	W1      SLIDING WINDOW	W2      SLIDING WINDOW
QUANTITY	03	02	02	01
W x H SIZE	1000 x 2100	1800 x 2100	2045 x 1325	2045 x 1325
SILL HEIGHT	00	00	0	0
LINTEL HEIGHT	2100	2100	2325	2325
2D SYMBOL				
ELEVATION				
FIRE RESISTANCE RATING	20 MINUTES	20 MINUTES	20 MINUTES	20 MINUTES
LOCATION	PATIENT TOILET	MAIN ENTRANCE	ISOLATION ROOM	SUSPECTED AREA
AREA	1.85 SQM	3.48 SQM	1.66 SQM	2.57 SQM
REMARKS	FRAME: TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL PANEL: 40mm THICK MARINE PLYWOOD DOOR PANEL	FRAME: TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL PANEL: 32mm THICK SOLID TIMBER DOOR PANEL WITH WOOD STAIN AND SEMI MATTE VARNISH, 6mm THICK TEMPERED CLEAR GLASS VIEW PANEL.	BLACK POWDER COATED (60 MICRONS) ALUMINUM FRAME DEPTH TO BE WIDTH OF THE WALL WITH 6mm THICK REFLECTED GLASS	BLACK POWDER COATED (60 MICRONS) ALUMINUM FRAME DEPTH TO BE WIDTH OF THE WALL WITH 6mm THICK REFLECTED GLASS
HARWARE	HINGE    : 4"X3"X3mm THK. BUTT HINGE, SS FINISH (4pcs) LOCKSET : MORTISE LOCK , SS FINISH, DOOR HANDLE LEVER TYPE DOOR CLOSER, DOOR STOPPER	HINGE    : 4"X3"X3mm THK. BUTT HINGE, SS FINISH (8pcs) LOCKSET : DEAD LOCK WITH KEY & KEY CYLINDER, PULL HANDLE DOOR CLOSER, DOOR STOPPER.	LOCKSET : SLIDING WINDOW TOUCH LOCK	LOCKSET : SLIDING WINDOW TOUCH LOCK

NOTE:-

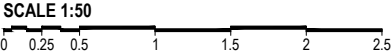
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- INTERNAL DOORS FRAME DEPTH TO BE WIDTH OF THE WALL.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.
- ALL EXTERIOR DOORS & WINDOWS SASHES TO BE 100mm WIDE

LEGEND:-

CG - CLEAR GLASS  
FCG - FIXED CLEAR GLASS  
FG - FROSTED GLASS  
FFG - FIXED FROSTED GLASS  
RG - REFLECTED GLASS  
MP - MARINE PLYWOOD

FRG - FIXED REFLECTED GLASS  
TG - TEMPERED CLEAR GLASS  
AL - ALUMINIUMN LOUVERS  
ST - SOLID TIMBER  
T - TIMBER  
PVC - POLYVINYL CHLORIDE

DOOR / WINDOW SCHEDULE - 02



Ha.Kelaa Health Center  
Client: Ministry of Health  
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Date: February 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidin Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

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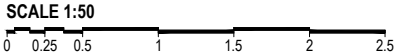
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Title: DOORS / WINDOWS  
SCHEDULE 02

Page: A-06/12



DOOR / WINDOW SCHEDULE - 03



ELEMENT ID	V1 TOP HUNG WINDOW	V2 TOP HUNG WINDOW
QUANTITY	06	10
W x H SIZE	770 x 600	1300 x 600
SILL HEIGHT	1750	1750
LINTEL HEIGHT	2350	2350
2D SYMBOL		
ELEVATION		
FIRE RESISTANCE RATING	20 MINUTES	20 MINUTES
LOCATION	TOILET	TOILET
AREA	0.37 SQM	0.65 SQM
REMARKS	BLACK POWDER COATED (60 MICRONS) ALUMINUM FRAME DEPTH TO BE WIDTH OF THE WALL WITH 6mm THICK REFLECTED GLASS	BLACK POWDER COATED (60 MICRONS) ALUMINUM FRAME DEPTH TO BE WIDTH OF THE WALL WITH 6mm THICK REFLECTED GLASS
HARWARE	HINGE : TOP HUNG ARMS LOCKSET : FLAT HANDLE DOOR LATCH & SASH LOCK	HINGE : TOP HUNG ARMS LOCKSET : FLAT HANDLE DOOR LATCH & SASH LOCK

NOTE:-

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- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
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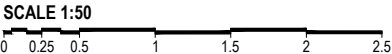
LEGEND:-

CG - CLEAR GLASS  
FCG - FIXED CLEAR GLASS  
FG - FROSTED GLASS  
FFG - FIXED FROSTED GLASS  
RG - REFLECTED GLASS  
MP - MARINE PLYWOOD

FRG - FIXED REFLECTED GLASS  
TG - TEMPERED CLEAR GLASS  
AL - ALUMINIUMN LOUVERS  
ST - SOLID TIMBER  
T - TIMBER  
PVC - POLYVINYL CHLORIDE

SCHEDULE OF VENTILATION						
	Room name/ Number	Room Areas (sqm) ( Specify centre to centre or clear)	Window (opening) number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
	Ground Floor					
	Isolation Ward	27.37	D7	2.737	3.48	12.71%
	Isolation Room 01	9.4	W1	0.94	1.66	17.66%
	Anteroom	4.6	V2	0.46	0.65	14.13%
	Toilet	4.2	V2	0.42	0.65	15.48%
	Isolation Room 02	10	W1	1	1.66	16.60%
	Anteroom	MECHANICAL VENTILATION				
	Toilet	4	V2	0.4	0.65	16.25%
	Dirty utility	4.5	D3	0.45	1.64	36.44%
	Clean utility	4.2	V2	0.42	0.65	15.48%
	Airlock 01	MECHANICAL VENTILATION				
	Doffing	MECHANICAL VENTILATION				
	Airlock 02	3.8	V2	0.38	0.65	17.11%
	Pantry	4.9	V2	0.49	0.65	13.27%
	Chnaging	7.2	2*V1,D2	0.72	2.38	33.06%
	Shower	1.3	V1	0.13	0.37	28.46%
	Toilet	1.3	V1	0.13	0.37	28.46%
	Suspected Area	29	D7	2.9	3.48	12.00%
	Suspected Room	18	W2	1.8	3.48	19.33%
	Toilet	MECHANICAL VENTILATION				
	Anteroom	6.5	V2	0.65	0.65	10.00%
	Dirty utility	9.2	V2, D2	0.92	2.29	24.89%
	Clean utility	4.8	V2	0.48	0.65	13.54%
	Airlock 01	MECHANICAL VENTILATION				
	Doffing	MECHANICAL VENTILATION				
	Airlock 02	MECHANICAL VENTILATION				
	Pantry	MECHANICAL VENTILATION				
	Chnaging	6.6	V2,D2	0.66	2.29	34.70%
	Shower	MECHANICAL VENTILATION				
	Toilet	1.3	V1	0.13	0.37	28.46%
		MECHANICAL VENTILATION				
	Common Area					
	Chnaging	MECHANICAL VENTILATION				
	Donning	5.6	V1,D2	0.56	2.01	35.89%

VENTILATION SCHEDULE



Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R27114MOH - HAK  
Date: February 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

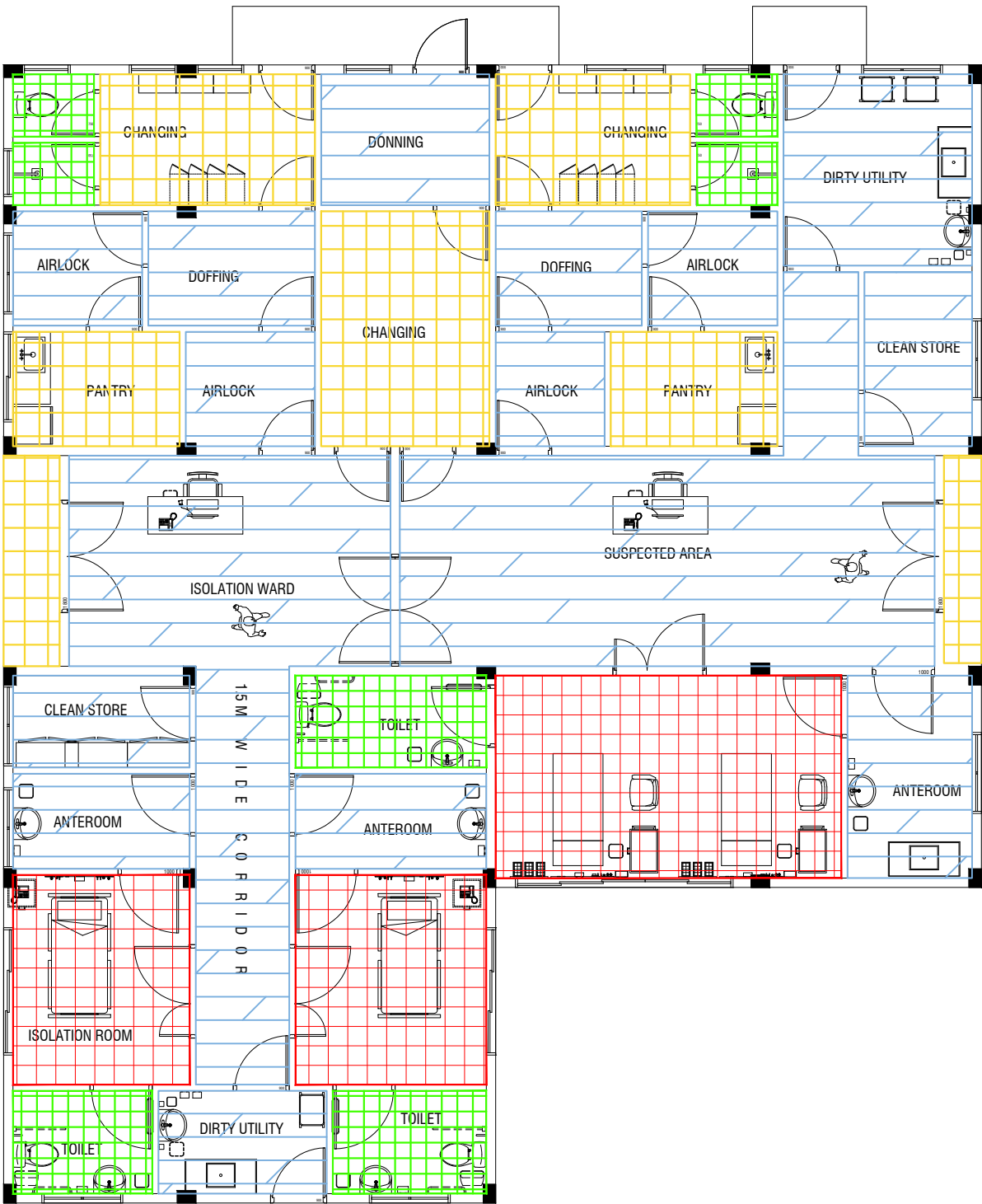
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3rd floor, H. Azum, Ameenemagau, Male'

Title: DOORS / WINDOWS -03  
VENTILATION SCHEDULE

Page: A-07/12

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**GROUND FLOOR  
FLOOR FINISHES PLAN**

SCALE 1:100



LEGEND:

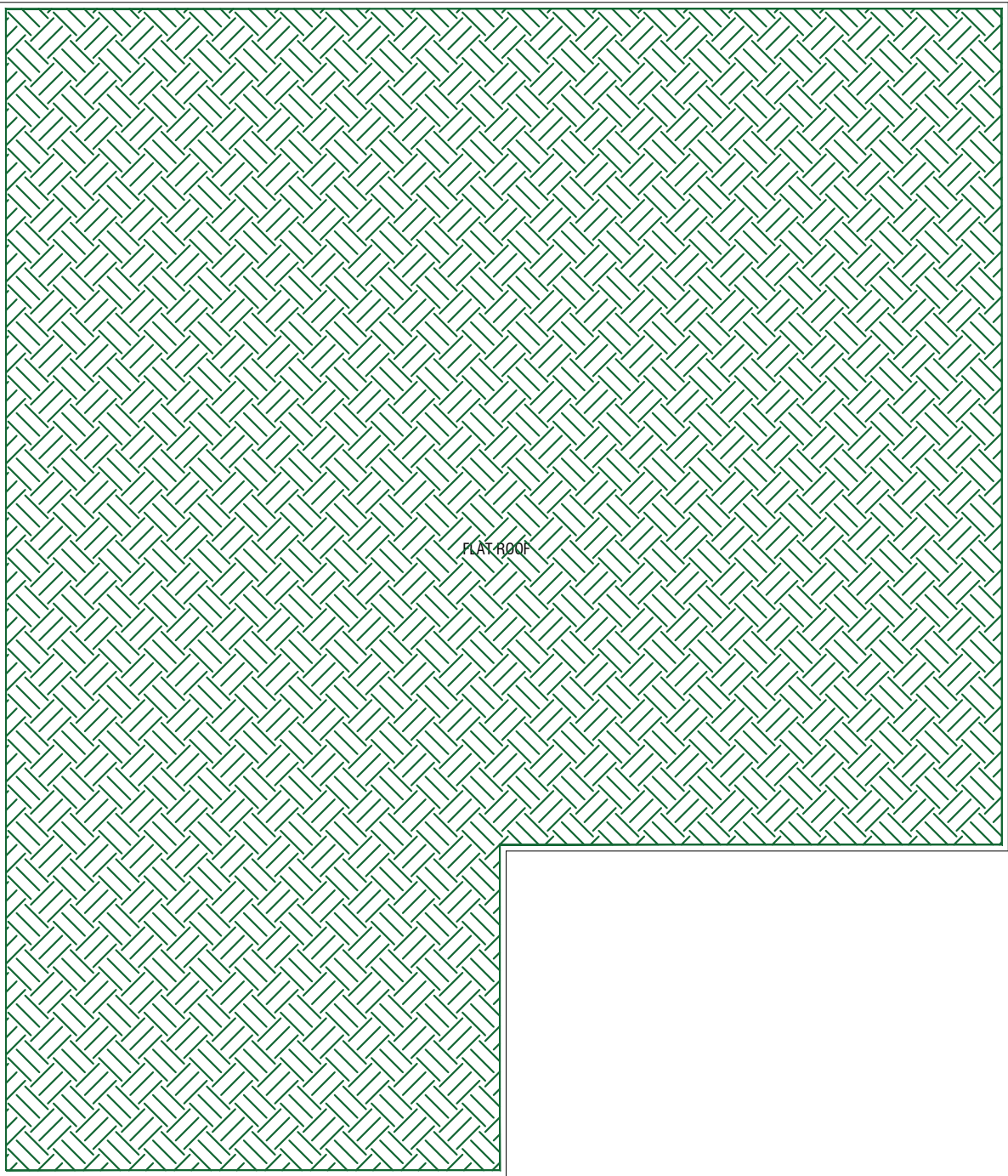
Code	Description	
FF01	 1200mmX1200mm Polished Porcelain Floor Tile	
FF02	 1200mmX1200mm Semi Polished Porcelain Floor Tile	
FF03	 800mmX800mm Semi Polished Porcelain Floor Tile	
FF04	 600mmX600mm Matte Ceramic Floor Tile	
FF05	 600mmX600mm Matte Ceramic Outdoor Floor Tile	
FF06	 300mmX300mm Matte Ceramic Floor Tile	
FF07	 300mmX1200mm Matte Ceramic Staircase Floor Tile	
FF08	 Homogeneous Vinyl Flooring For Sterile Area - Supplier Should recommend Technical Specification	
FF09	 Permanently Static Dissipative Pressed Homogeneous Vinyl Flooring For Sterile Area - Supplier Should recommend Technical Specification	
FF10	 Paver Block	
FF11	 Gray Epoxy Paint finish over leveling Screed	

Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R27114MOH - HAK  
Date: February, 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abiddeen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

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Title: FLOOR FINISHES PLAN














**ROOF  
FLOOR FINISHES PLAN**

SCALE 1:100  
0 0.5 1 2 3 4 5

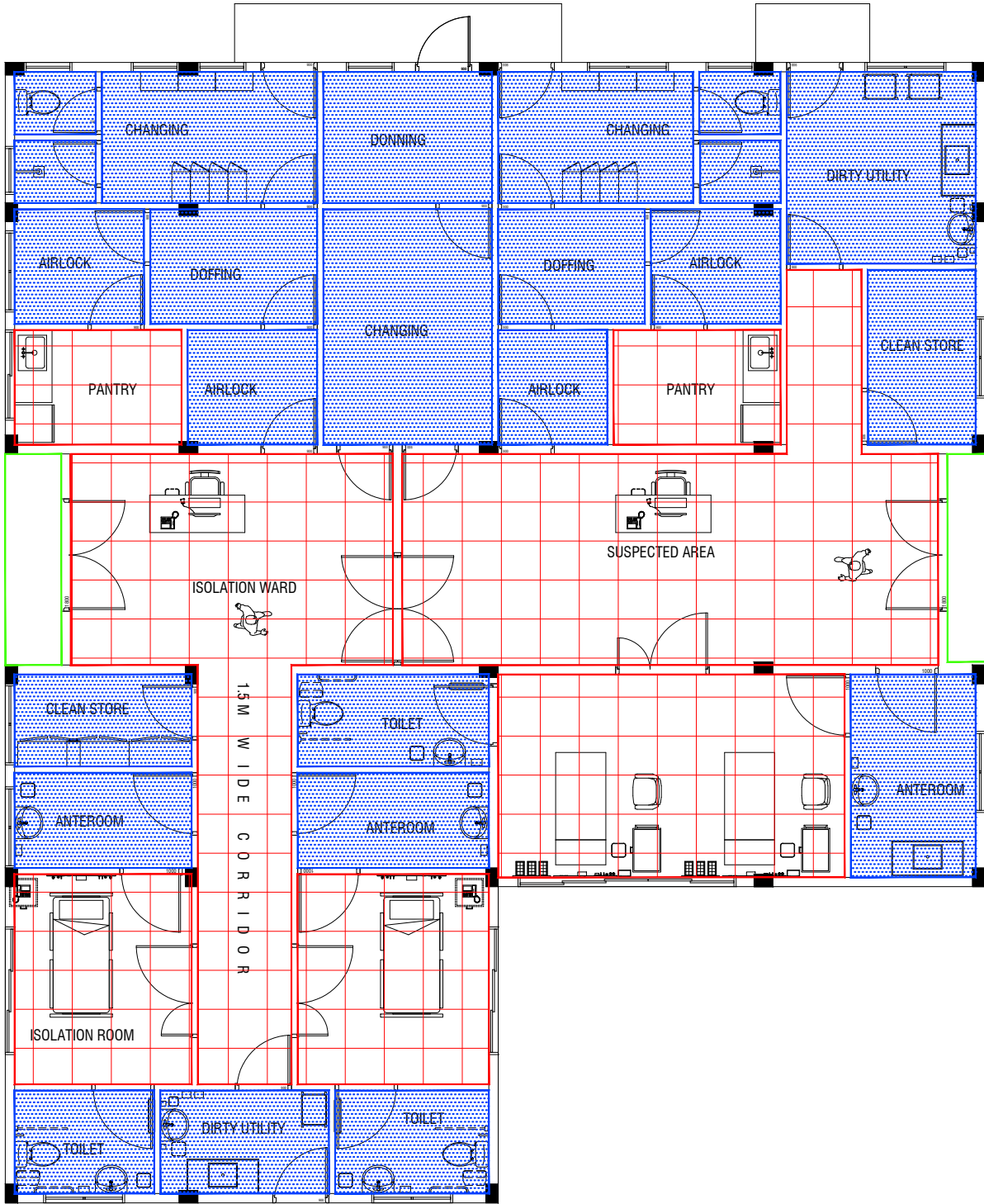





LEGEND:

Code	Description	
FF01	 1200mmX1200mm Polished Porcelain Floor Tile	
FF02	 1200mmX1200mm Semi Polished Porcelain Floor Tile	
FF03	 800mmX800mm Semi Polished Porcelain Floor Tile	
FF04	 600mmX600mm Matte Ceramic Floor Tile	
FF05	 600mmX600mm Matte Ceramic Outdoor Floor Tile	
FF06	 300mmX300mm Matte Ceramic Floor Tile	
FF07	 300mmX1200mm Matte Ceramic Staircase Floor Tile	
FF08	 Homogeneous Vinyl Flooring For Sterile Area - Supplier Should recommend Technical Specification	
FF09	 Permanently Static Dissipative Pressed Homogeneous Vinyl Flooring For Sterile Area - Supplier Should recommend Technical Specification	
FF10	 Paver Block	
FF11	 Gray Epoxy Paint finish over leveling Screed	

Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R2114MCH - HAK  
Date: February, 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

Rev no	By	Date



LEGEND:		
Code	Description	
CF01		FALSE FLAT CEILING WITH 12mm CALCIUM SILICATE BOARD UNDER 50x50mm CEILING JOIST WITH EMULSION PAINT FINISH
CF02		FALSE FLAT CEILING WITH 12mm THICK GYPSUM BOARD UNDER 50x50mm CEILING JOIST WITH EMULSION PAINT FINISH
CF03		SMOOTH PUTTY UNDER RC SLAB/B EAM WITH SATIN WHITE PAINT FINISH

GROUND FLOOR  
REFLECTED CEILING PLAN

SCALE 1:100



Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: - R2114MOH - HAK  
Date: February, 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidin Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

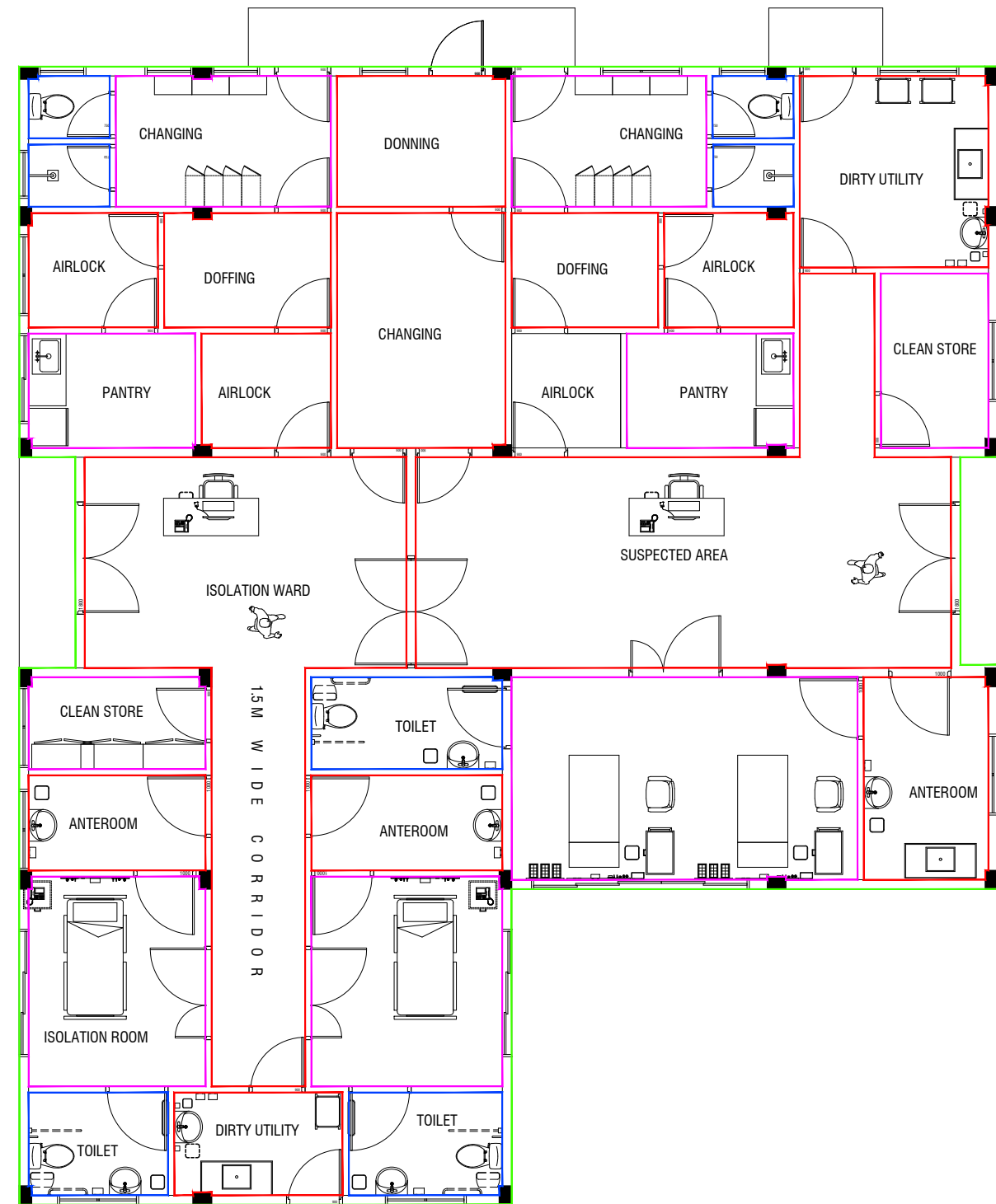
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Title: REFLECTED CEILING  
FINISHES PLAN

Page: A-10/12

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**GROUND FLOOR  
WALL FINISHES PLAN**

SCALE 1:100  
0 0.5 1 2 3 4 5



LEGEND:		
Code	Description	
WF01		Exterior Grade Paint Finish
WF02		Exterior Timber Wall Cladding
WF03		Interior Grade Paint Finish
WF04		Interior Latex Paint Finish
WF05		Vinyl wall covering
WF06		600mmX300mm Matte Ceramic wall Tile
WF07		High Pressure laminate finish

- NOTE:
- High-risk areas, which get damaged easily and, once affected, can become an eyesore and a potential infection control issue. Install corner guards.
    - Use stick-on corner guards for low risk areas
    - Use models with an aluminium retainer & a cover that flexes on impact for high damage areas
  - In main circulation routes and service corridors most damage to walls happens from equipment, at low or mid wall level. In those areas additional protection may be required in the form of crashrails, hand/crash rails and bump rails.
  - 100mm Skirting throughout the building

Ha Kelaa Health Center  
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Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

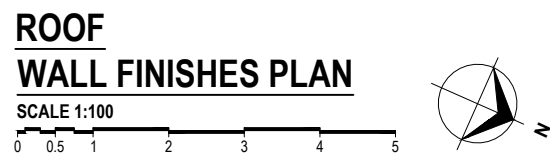
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Title: WALL FINISHES PLAN



**NOTE:**

1. High-risk areas, which get damaged easily and, once affected, can become an eyesore and a potential infection control issue. Install corner guards.
  - \* Use stick-on corner guards for low risk areas
  - \* Use models with an aluminium retainer & a cover that flexes on impact for high damage areas
2. In main circulation routes and service corridors most damage to walls happens from equipment, at low or mid wall level. In those areas additional protection may be required in the form of crashrails, hand/crash rails and bump rails.
3. 100mm Skirting throughout the building

Rev no	By	Date
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Ha,Kelaa Health Center  
Client: Ministry of Health  
Project Number - R2T14MOH - HAK  
Date: February, 2022  
Architect : Mariyam Irasha Shareef  
Engineer : Zainal Abideen Ali Rasheed  
Drawn by : Prabhakaran Nadimuthu  
Services :-  
Interior :-



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**Title:** WALL FINISHES PLAN



GENERAL NOTES

THE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS. REGARDLESS OF WHETHER OR NOT SHOWN IN DRAWINGS OR OTHER TENDER DOCUMENTS, THE STANDARD PROVISIONS SPECIFIED HEREUNDER FOR COMPLIANCE BY THE CONTRACTOR SHALL APPLY TO ALL RELEVANT PORTIONS OF THE STRUCTURAL WORKS AND SHALL FORM PART OF THIS CONTRACT.

1.0 VERIFICATION OF DIMENSIONS AND LEVELS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS ON SITE, AND RESOLVE ALL DISCREPANCIES WITH THE ARCHITECT OR ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- DRAWING INDICATES GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE OF SIMILAR CHARACTER TO DETAILS SHOWN AND ALTHOUGH NOT SPECIFICALLY INDICATED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECTED TO REVIEW BY THE ENGINEER.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS IN THE CONTRACT DRAWINGS.
- DISCREPANCIES IN DRAWINGS ARISING FROM SUCH VERIFICATION WORKS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

2.0 SHOP DRAWINGS

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF ALL WORKS AND SHALL TAKE SITE MEASUREMENTS PRIOR TO THE PREPARATION OF ANY SHOP DRAWINGS OR BEFORE COMMENCING FABRICATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SPECIALIST TRADES, SUCH AS PRESTRESSING, CURTAIN WALLING, ETC. FOR REVIEWS AND COMMENTS BY THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK. SUCH SHOP DRAWINGS SUBMITTED SHALL INCORPORATE ALL NECESSARY CONNECTION DETAILS TO THE STRUCTURAL MEMBERS SUCH AS CAST-IN INSERTS, EMBEDDED PLATES, ETC.

3.0 INCORPORATION OF M&E REQUIREMENTS IN THE STRUCTURE

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF STRUCTURAL, M & E PENETRATION DRAWINGS OF SERVICES AND SUBMIT SUCH SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEWS AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- THESE SHOP DRAWINGS SHALL INCORPORATE ALL MECHANICAL, ELECTRICAL AND SANITARY WORKS TO BE EMBEDDED IN CONCRETE AND ALL OPENINGS FOR ALL PIPE OR DUCT WORKS, BASED ON THE REQUIREMENTS OF M & E DRAWINGS IN HIS POSSESSION.
- HE SHALL CHECK AND RESOLVE ALL DISCREPANCIES WITH THE RESPECTIVE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

4.0 LEAN CONCRETE FOR SUSPENDED STRUCTURES

- UNLESS OTHERWISE STATED, 50 MM THICK LEAN CONCRETE WITH A MINIMUM 28-DAY CUBE STRENGTH OF 15N/MM2 SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF STRUCTURAL CONCRETE MEMBERS.

5.0 WATER PROOFING STRUCTURAL ELEMENTS

- UNLESS OTHERWISE STATED, A SINGLE LAYER OF 0.25 MM(HEAVY DUTY) POLYTHENE SHEET, OR EQUIVALENT THERMOPLASTIC MATERIAL, LAID OVER A COMPACTED 60 MM THICK LAYER OF HARD CORE BLINDED WITH SAND TO PREVENT GROUT LOSS FROM SEEPAGE INTO THE GROUND SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF THE NON-SUSPENDED SLABS.
- 50mm THICK CEMENT SCREED WITH WATER PROOFING SIKA OR EQUIVALENT FOR TOILET AND ALL OTHER WET AREAS.
- 35mm THICK CEMENT SCREED WITH WATER PROOFING SIKA OR EQUIVALENT FOR BALCONIES, TERRACE, TOILET AND ALL OTHER WET AREAS FOR (25mm DROP AREAS, CHECK LEVEL DIFFERENCE IN FLOOR PLAN)
- USE BITUMINOUS MEMBRANE BELOW GROUND LEVEL
- APPLY BITUMINOUS WATER PROOFING ON ALL STRUCTURAL MEMBERS EXPOSED TO EARTH

6.0 SUBGRADE UNDER STRUCTURAL ELEMENTS

- WHERE THE CONTRACTOR REQUIRES REMOVAL AND SUBSEQUENT BACKFILL OF SUBGRADE PRIOR TO CASTING OF PILECAP/WALL/BEAM/SLAB, HE SHALL ENSURE THAT THE BACKFILL IS OF APPROVED MATERIAL AND THAT THE BACKFILL SHALL BE REASONABLY COMPACTED TO ENSURE THAT THE COMPACTED SOIL IS ABLE TO WITHSTAND THE WEIGHT OF THE WET CONCRETE. THE CONTRACTOR SHALL EXERCISE PROPER SKILL AND CARE TO AVOID DAMAGE TO ADJACENT INSTALLED STRUCTURES ARISING FROM HIS CONSTRUCTION SEQUENCE.

7.0 WATERPROOFING FOR STRUCTURES

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND METHOD STATEMENTS FOR THE ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK. REQUIRED SHOP DRAWING DETAILS INCLUDE BUT ARE NOT LIMITED TO TREATMENT OF FLASHINGS, WATERSTOP AT CONSTRUCTION JOINTS, WALL AND SLAB PENETRATIONS.
- ALL PENETRATIONS THROUGH STRUCTURAL ELEMENTS SHALL BE CAST-IN, SLEEVED AND PROVIDED WITH APPROVED PUDDLE FLANGE DETAIL. IF FOR ANY REASON THE CONTRACTOR IS UNABLE TO LAY WATERSTOP AT CONSTRUCTION JOINTS AS INDICATED IN THE DRAWINGS, HE SHALL AT HIS OWN EXPENSES PROVIDE ADEQUATE GROUT TUBES FOR WATERPROOF PRESSURE GROUTING TO ENSURE WATERTIGHTNESS OF THE JOINT.
- ALL GROUT TUBES SHALL BE MARKED AND PROTECTED FROM BLOCKAGE.
- BACKFILLING OPERATIONS AGAINST VERTICAL SURFACE SHALL BE CARRIED OUT AS SOON AS THE WATERPROOFING BARRIER IS INSTALLED TO THE SATISFACTION OF THE ENGINEER.

8.0 CASTING LAYERS

- INCLINED CASTING LAYERS AND INCLINED CONSTRUCTION JOINTS SHALL BE AVOIDED.
- HORIZONTAL CASTING LAYERS SHALL NOT IN GENERAL EXCEED 0.6 M THICKNESS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

9.0 FOUNDATIONS

- ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 KN/M.
- ALL BACKFILL SHOULD BE DONE WITH MATERIALS APPROVED BY THE CONSULTANT AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
- WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
- IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOUNDATION, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
- IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE BELOW LEVEL OF FOUNDATIONS.
- THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGH OUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
- NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.

10.0 CONSTRUCTION LOAD AND SHORING

- CONSTRUCTION LIVE LOAD IMPOSED ON ANY SINGLE FLOOR SHALL NOT EXCEED 1.5 KN/M2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEAD LOAD OF THE TOP CONSTRUCTION FLOOR SHALL BE SUPPORTED BY TWO COMPLETED FLOORS DIRECTLY BELOW IT.
- PROPS TO BEAMS AND SLABS AT ANY FLOORS SHALL NOT BE REMOVED UNTIL THE TWO IMMEDIATE FLOORS ABOVE THAT LEVEL ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LOADS IMPOSED DURING CONSTRUCTION. CONSIDERATIONS GOVERNING REMOVAL OF PROPS INCLUDE BUT ARE NOT LIMITED TO THE ATTAINMENT OF 28-DAY STRENGTH FOR THE CONCRETE, DESIGN LOAD CAPACITY OF THE FLOOR UNDER REVIEW AND THE COMPLETION OF PRESTRESSING AND GROUTING OPERATIONS IN THE CASE OF A PRESTRESSED STRUCTURAL FLOOR SYSTEM.

- PROPS SHALL BE LEFT IN PLACE FOR SUPPORTING THE CONSTRUCTION LOADS APPROVED BY THE ENGINEER.
- NO ALLOWANCE HAS BEEN MADE IN THE DESIGN OF THE PERIMETER BEAMS/WALLS FOR THE SUPPORT OF TEMPORARY SCAFFOLDINGS.
- THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER TO DESIGN AND STRENGTHEN THE BEAMS/WALLS.
- THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER CHECK THE ADEQUACY OF SHORING DETAIL PROVIDED PROCEEDING THE WORK, AS SHORING WAS DESIGNED, CONSIDERING THE STATUS OF THE BUILDING AT THE TIME OF DESIGN.

11.0 CONCRETE COVER

- MINIMUM COVER TO OUTERMOST REINFORCEMENT INCLUDING LINKS SHALL BE AS FOLLOWS.

STRUCTURAL ELEMENT	COVER (mm)
RAFT BEAM & SLAB (EARTH FACE)	60
RAFT BEAM & SLAB (INTERNAL FACE)	60
COLUMN	40
BEAM	35
BEAM (EXTERNAL FACE)	40
SLAB	30
INTERNAL WALL	30
EXTERNAL WALL	40

- NOTE: EARTH FACE COVER OF BEAMS, COLUMNS & WALLS SHOULD BE 50mm

12.0 MATERIAL STRENGTHS

12.1 CONCRETE

- UNLESS OTHERWISE STATED, ORDINARY PORTLAND CEMENT CONFORMING TO BS 12, TO BE USED FOR ALL THE RC STRUCTURAL ELEMENTS.
- THE MINIMUM 28-DAY COMPRESSIVE CUBE STRENGTH OF CONCRETE FOR SPECIFIED STRUCTURAL ELEMENTS SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED:

MAIN BUILDING	
LEAN CONCRETE	15 N/mm2
MASS CONCRETE	30 N/mm2
COLUMN, BEAM AND SLAB	30 N/mm2
EXTERNAL WORK	
PAVEMENTS	30 N/mm2
ALL OTHERS (CULVERT, DRAINS, MANHOLE, ETC)	30 N/mm2
FOUNDATION	
PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM	30 N/mm2

- CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.

Ha.Kelaa Health Center  
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Drawn by : Prabhakaran Nadimuthu  
Services : -  
Interior : -

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Title: GENERAL NOTES -01

Page: S-01/10

12.2 REINFORCEMENT

- UNLESS OTHERWISE STATED, BAR SIZE 10MM DIAMETER OR LARGER SHALL BE HIGH TENSILE TYPE II DEFORMED BARS. THE MINIMUM YIELD STRENGTH OF STEEL BAR REINFORCEMENT SHALL BE AS FOLLOWS:

MILD STEEL PLAIN BAR	250 N/mm2
HIGH TENSILE TYPE II DEFORMED BAR	415 N/mm2

12.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.

	BAR GRADE 415
TENSION	45Ø
COMPRESSION	45Ø

Ø IS DIAMETER OF THE SMALLER SIZED LAPPED BAR.

- NO SPLICE SHALL BE MADE AT POINT OF MAXIMUM STRESS,EG IN BEAMS AND SLABS, THERE SHALL BE NO SPLICING OF TOP BARS OVER SUPPORTS NOR BOTTOM BARS AT MID-SPANS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE. LAP LENGTH FOR UNEQUAL SIZE BARS (OR WIRES IN FABRIC) MAY BE BASED UPON THE SMALLER BAR. FOR BUNDLED BARS, THE EQUIVALENT DIAMETER SHALL BE USED. CRANKING OF BARS SHALL NOT EXCEED A SLOPE OF 1:10.
- FOR LAP LENGTH, WHERE SYMBOLS ARE NOT INDICATED, THE TENSION LAP LENGTH SHALL BE FOLLOWED.

13.0 STIRRUPS, LINKS AND TIES

- ALL STIRRUPS, LINKS AND TIES IN BEAMS, COLUMNS AND WALLS RESPECTIVELY SHALL TERMINATE NOT MORE THAN 75mm FROM THE FACE OF ANY ADJACENT STRUCTURAL MEMBERS.

14.0 SLAB DISTRIBUTION BARS

- REGARDLESS OF WHETHER OR NOT SHOWN ON PLAN, ALL DISTRIBUTION BARS FOR SLAB SHALL COMPRISE TYPICALLY ONE OF THE FOLLOWING COMBINATIONS, UNLESS OTHERWISE STATED IN THE RELEVANT DRAWINGS :

SLAB THICKNESS (mm)	MIN. DISTRIBUTION BAR
250 OR LESS	T10-300
GREATER THAN 250 BUT LESS THAN OR EQUAL TO 300	T10-200
GREATER THAN 300 BUT LESS THAN OR EQUAL TO 400	T10-150

15.0 FLOOR RENDERING

- THICKNESS OF SCREED RENDERING/MASS CONCRETE TOPPING EXCEEDING 60 OR MORE SHALL BE REINFORCED WITH ONE LAYER OF R6.

16.0 SHRINKAGE CRACKS

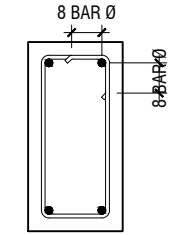
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING UP OF SHRINKAGE CRACKS BY EPOXY PRESSURE GROUTING SHALL BE DEEMED TO BE INCLUDED IN THE CONCRETE WORK AS TENDERED.

17.0 STEEL BAR CORROSION PROTECTION

- ALL EXPOSED BARS FOR FUTURE CONSTRUCTION PURPOSES (EXCEEDING 3 MONTHS) MUST BE COATED WITH MASTER EMACO 8100 AP OR APPROVED EQUIVALENT AND PROVIDED WITH ADEQUATE MAINTENANCE.

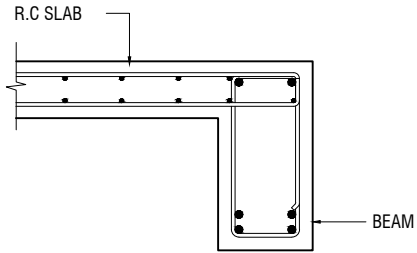
18.0 SPACER BARS

- ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1-5M C/C.

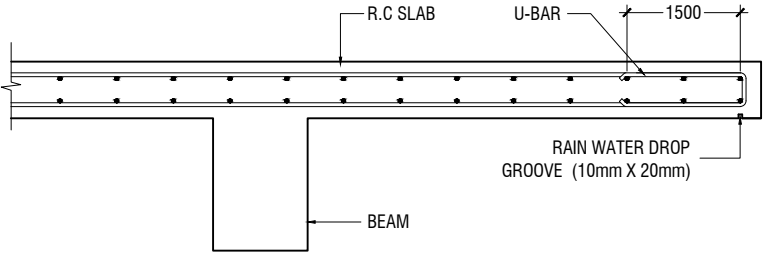


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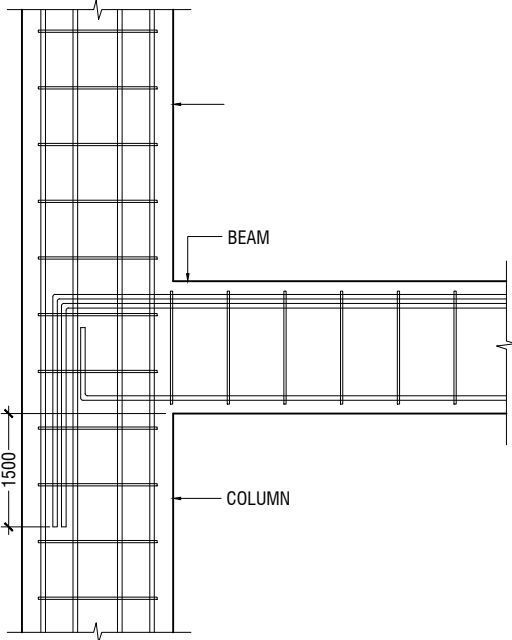
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL



BEAM TO COLUMN CONNECTION

Ha Kelaa Health Center  
Client: Ministry of Health  
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Title: GENRAL NOTES -02

Page: S-02/10

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19.0 STRUCTURAL TIMBER SPECIFICATION

19.1 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.

19.2 THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

19.3 ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

19.4 ALL TIMBER FOR STRUCTURAL USE SHALL BE HARDWOOD OR SOFTWOOD OF VISUAL GRADE C/D IN ACCORDANCE WITH BS 5756 WITH THE FOLLOWING MINIMUM GRADE STRESSES:

19.5 CONNECTIONS  
PLATES - STAINLESS STEEL GRADE 316 OF STATED THICKNESS  
BOLTS - SS GRADE 316

19.6 TIMBER TREATMENT  
MOISTURE - PRESSURE IMPREGNATION OF CCA  
INSECTS - TERMITE TREATMENT FOR TIMBER IN / NEAR GROUND

20.0 STRUCTURAL STEEL SPECIFICATION

1. SEE 21.0 ON PRIMARY CODES AND SPECIFICATIONS.

2. MATERIALS:

W-SHAPES & WT-SHAPES..... ASTM A992  
S-SHAPES, M-SHAPES, HP-SHAPES..... ASTM A36  
ST-SHAPES & MT-SHAPES..... ASTM A36  
C-SHAPES & MC-SHAPES..... ASTM A36  
ANGLES & PLATES..... ASTM A36  
HSS SHAPES..... ASTM A500, GRADE B  
STEEL PIPE..... ASTM A53 (TYPE E OR S), GRADE B  
HIGH STRENGTH BOLTS..... ASTM A325  
MACHINE BOLTS..... ASTM A307  
ANCHOR RODS.....ASTM F1554, GRADE 55 TYPE S1(UNO)  
WELDED HEADED STUDS..... ASTM A108  
DEFORMED BAR ANCHORS..... ASTM A496  
WELDING ELECTRODES..... AWS D1.1, E70 SERIES

3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.

23.0 POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS.

2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.

3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.



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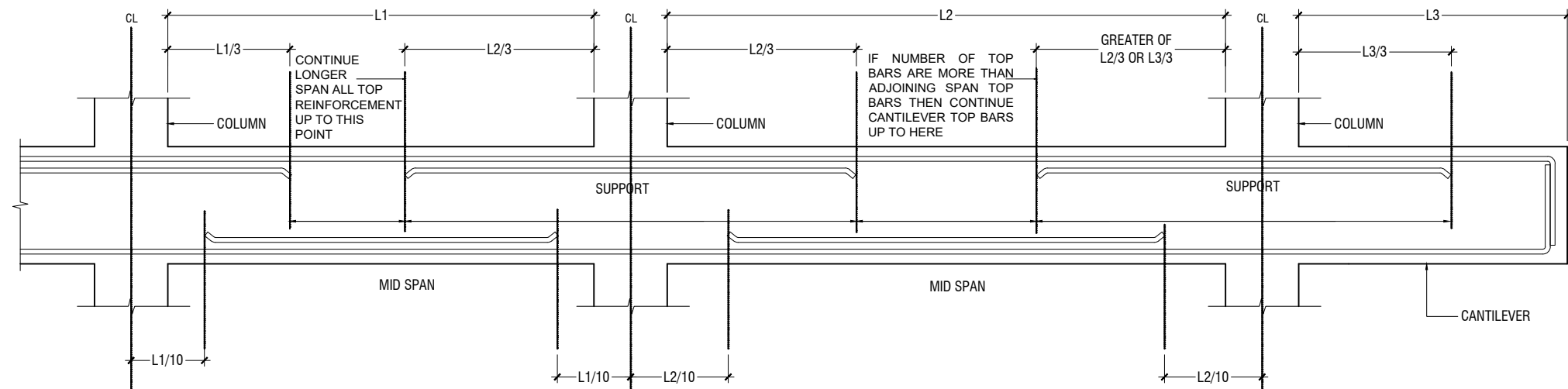
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Title: GENRAL NOTES -03

Page: S-03/10

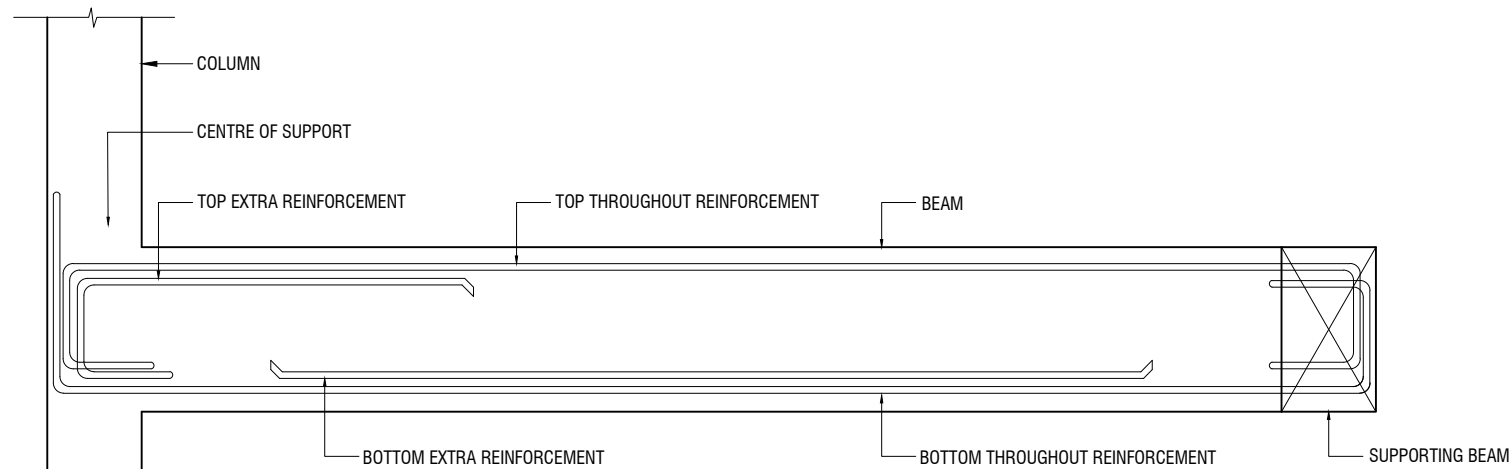
Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: -R21114MOH - HAK  
Date: February 2022  
Architect : Mariyam Irasha Shareef  
Engineer : Zainal Abidineen Ali Rasheed  
Drawn by : Prabhakaran Nadimuthu  
Services : -  
Interior : -

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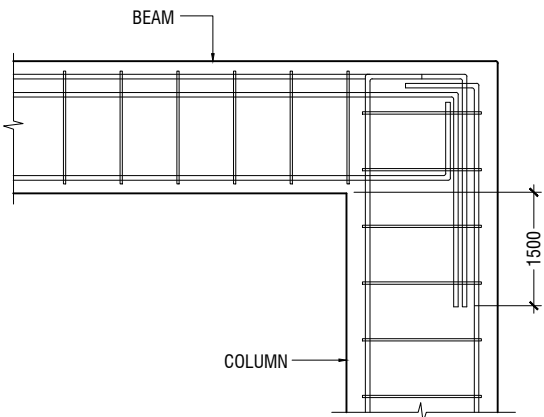


SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

L1 = SHORTER SPAN  
L2 = LONGER SPAN  
L3 = CANTILEVER LENGTH



LONGITUDINAL SECTION OF TYPICAL SLAB BEAM SPANNING BETWEEN A COLUMN AND BEAM  
SHOWING END SPAN MID SPAN REINFORCEMENT DETAILS



END COLUMN TO BEAM CONNECTION

NOTE:  
STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS  
OTHER DETAILS NOT FOUND HERE SHALL BE REFERRED TO IN RELEVANT BS  
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

Ha Kelaa Health Center  
Client: Ministry of Health

Project Number: -R21114MOH - HAK

Date: February 2022

Architect: Mariyam Irasha Shareef

Engineer: Zainal Abidin Ali Rasheed

Drawn by: Prabhakaran Nadimuthu

Services: -

Interior: -

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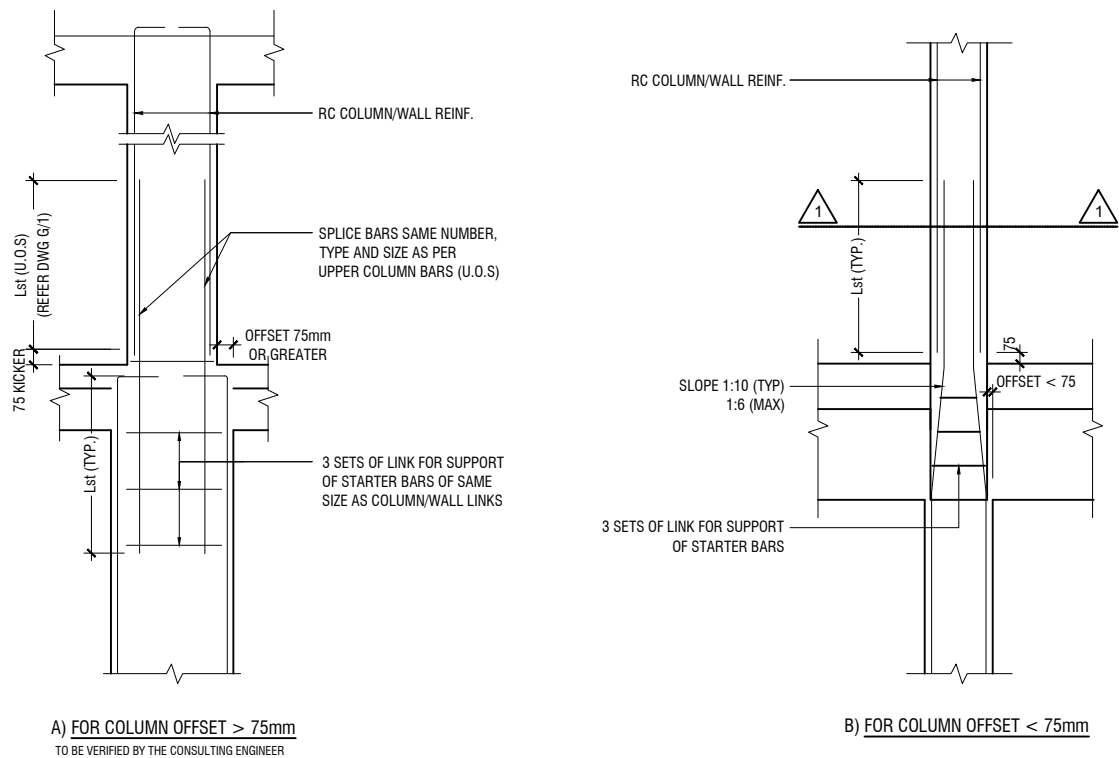
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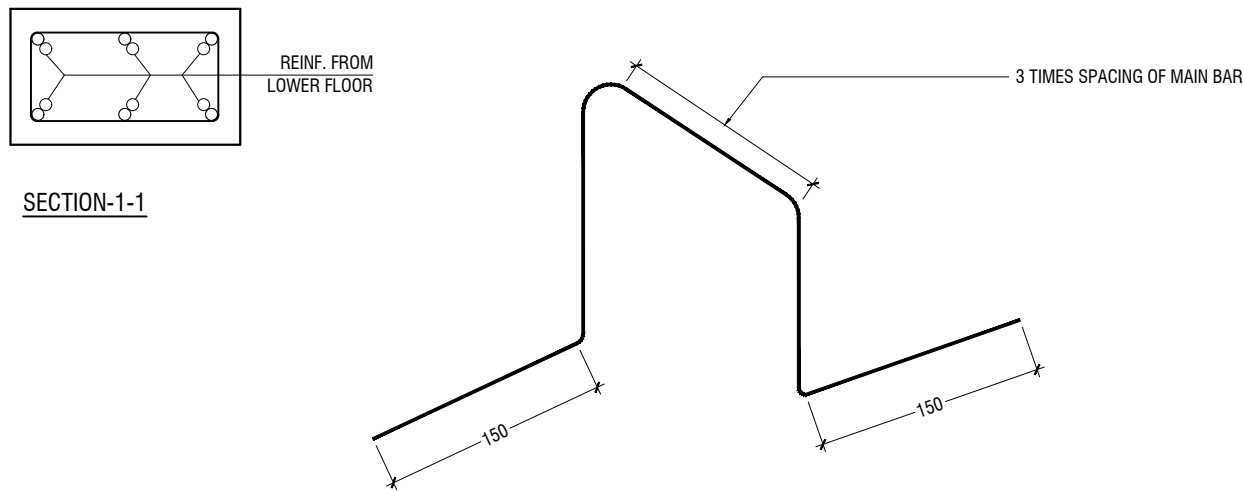
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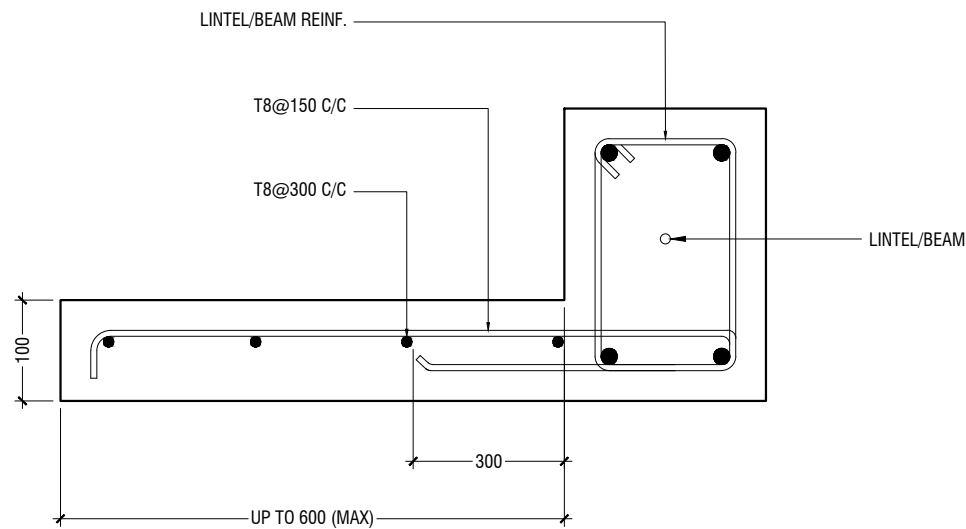
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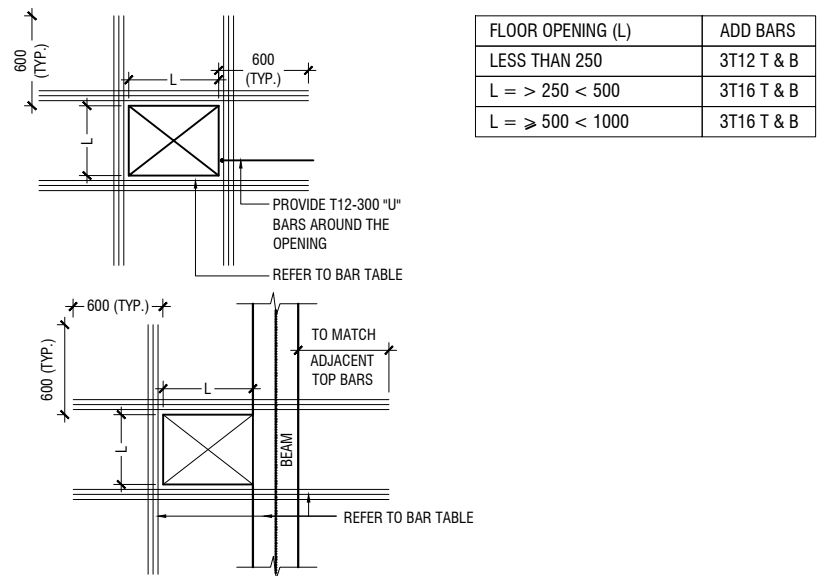
COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL



TYPICAL CHAIR DETAIL



TYPICAL CANTILEVER DETAILS



- NOTE:-**
- FOR OPENINGS LESS THAN 200x200. SLAB REBARS TO BE ADJUSTED AROUND OPENING.
  - FOR OPENINGS GREATER THAN 250x250 TO BE APPROVED BY THE ENGINEER.
  - ALL SLAB OPENINGS LOCATION TO BE APPROVED BY THE ENGINEER.
  - EQUIVALENT OPENING AREA SHALL APPLY THE DETAILS SHOWN ABOVE.
  - EQUIVALENT OPENING AREA SHALL INCLUDE RECTANGLE, TRIANGLE AND ANY POLYGON SHAPE.
  - EXCEPT HACKING, NO SLAB CORING ARE ADVISABLE FOR POST-TENSIONED SLAB.

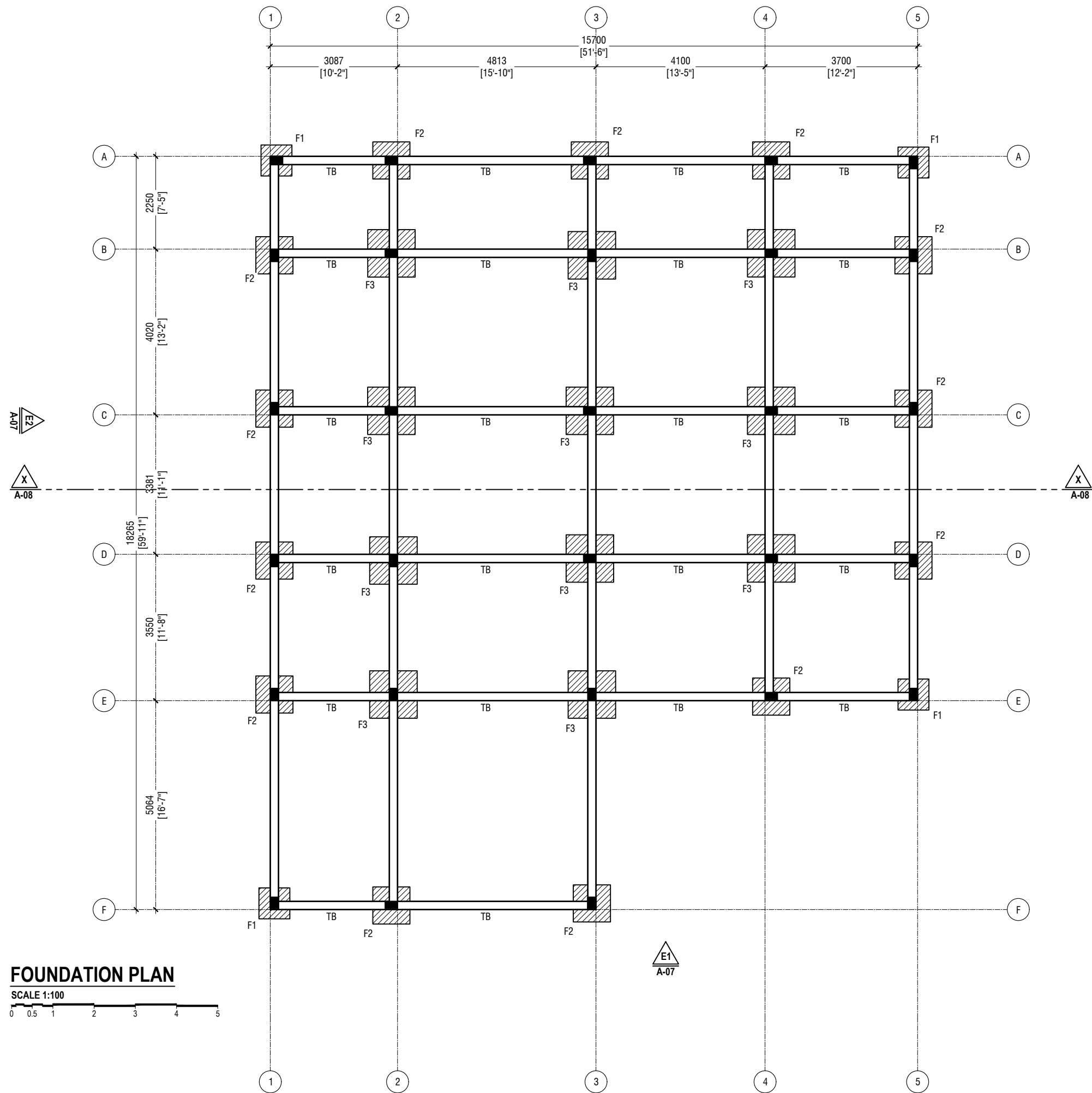
TYPICAL TRIMMER BARS DETAILS FOR OPENING IN SLABS

**Ha Kelaa Health Center**  
**Client: Ministry of Health**  
*Project Number: -R2114MOH - HAK*  
*Date: February, 2022*  
**Architect:** Mariyam Irasha Shareef  
**Engineer:** Zainal Abiddeen Ali Rasheed  
**Drawn by:** Prabhakaran Nadimuthu  
**Services:** Interior



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Title: GENRAL NOTES -05



**FOUNDATION PLAN**  
SCALE 1:100



**Ha Kelaa Health Center**  
Client: Ministry of Health  
Project Number: -R21114MOH - HAK  
Date: February 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

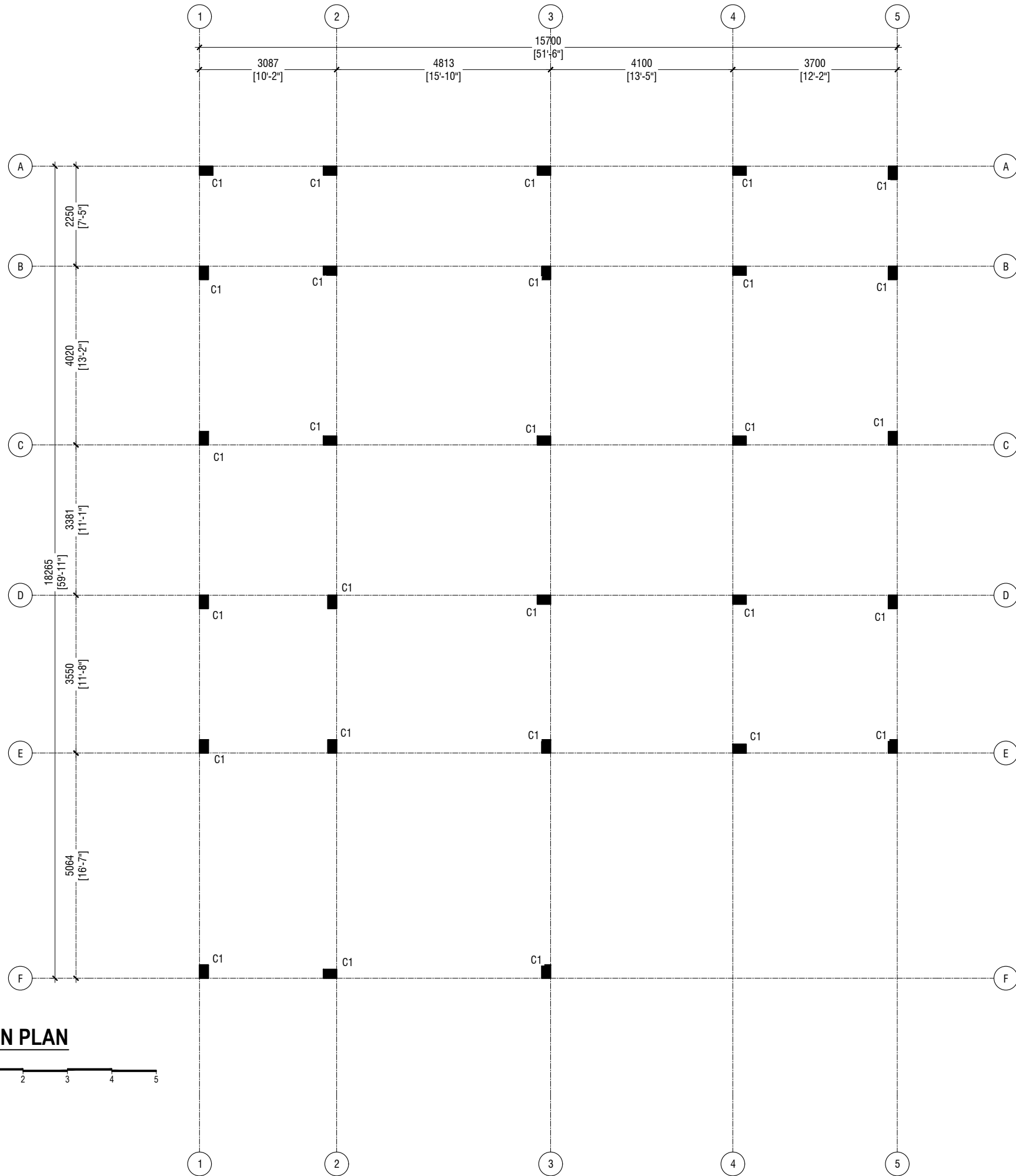


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COLUMN PLAN  
SCALE 1:100

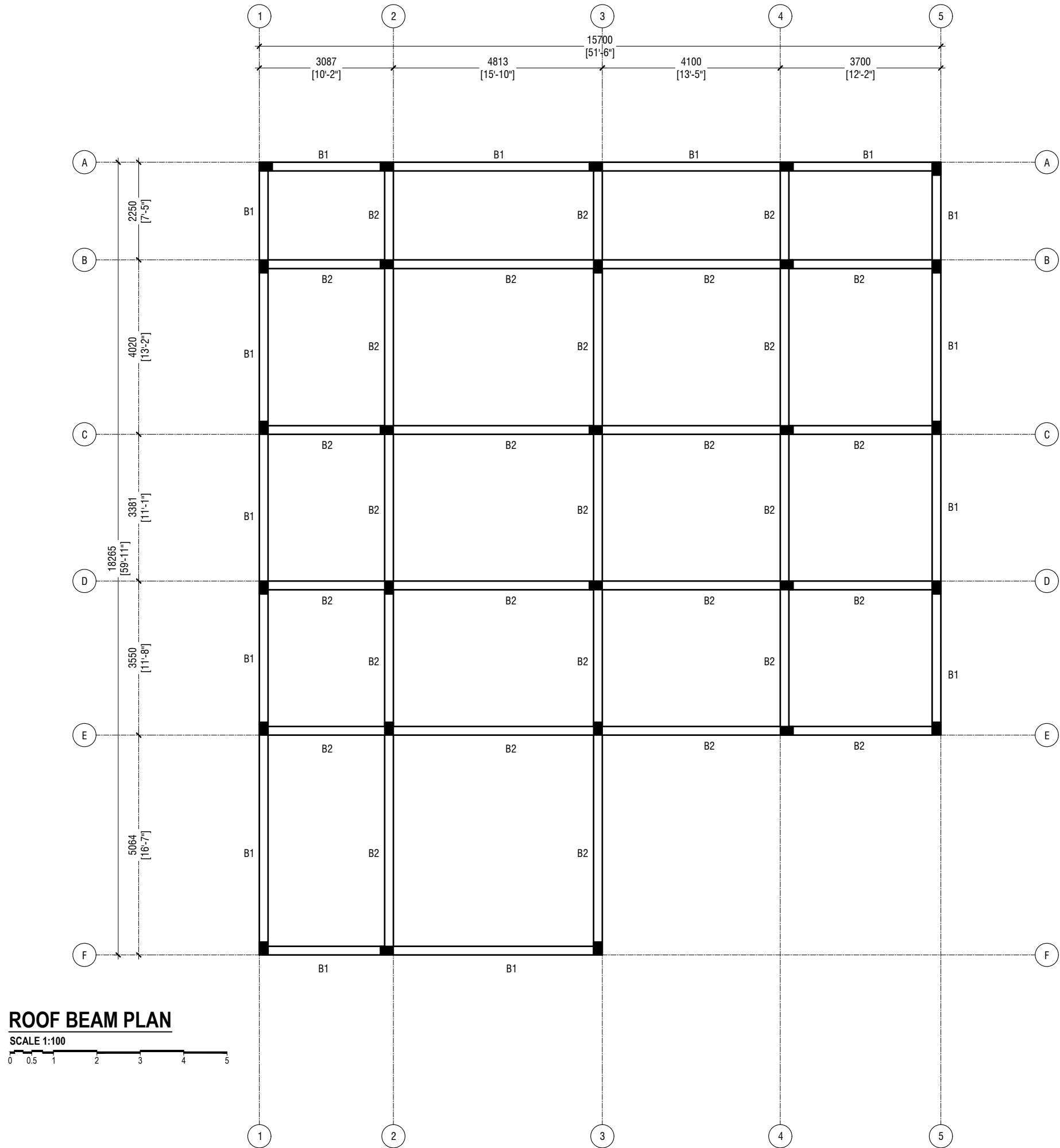


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Title: COLUMN PLAN

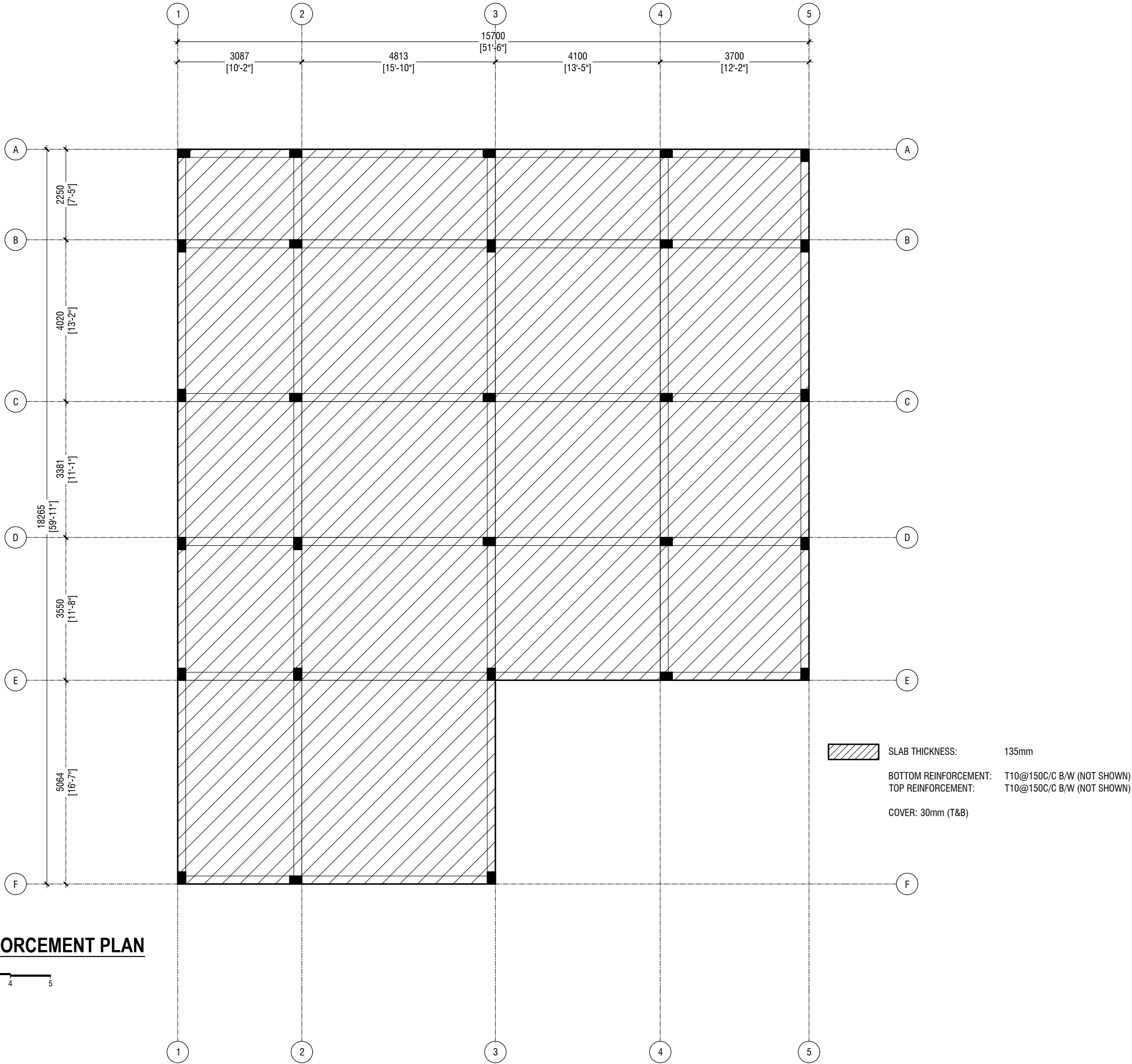
Ha Kelaa Health Center  
Client: Ministry of Health  
Project Number: -R21114MOH - HAK  
Date: February, 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

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ROOF SLAB REINFORCEMENT PLAN

SCALE 1:100



Ha.Kelaa Health Center  
Client: Ministry of Health

Project Number: -R21114MOH - HAK  
Date: February 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -

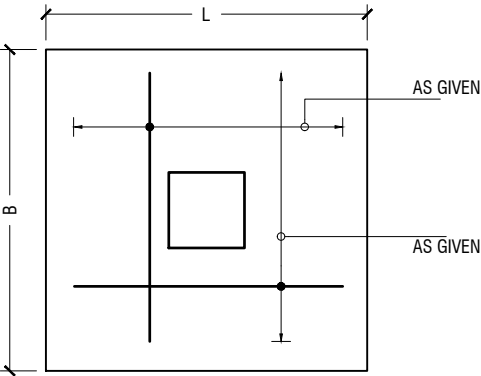
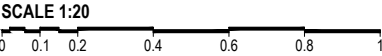
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	DIMENSION (L x B x D)	REINFORCEMENT	FOUNDATION DEPTH
F1	750 x 750 x 250	T10@ 100 C/C BW (B)	900mm
F2	900 x 900 x 250	T10@ 100 C/C BW (B)	900mm
F3	1150 x 1150 x 250	T10@ 175 C/C BW (B)	900mm

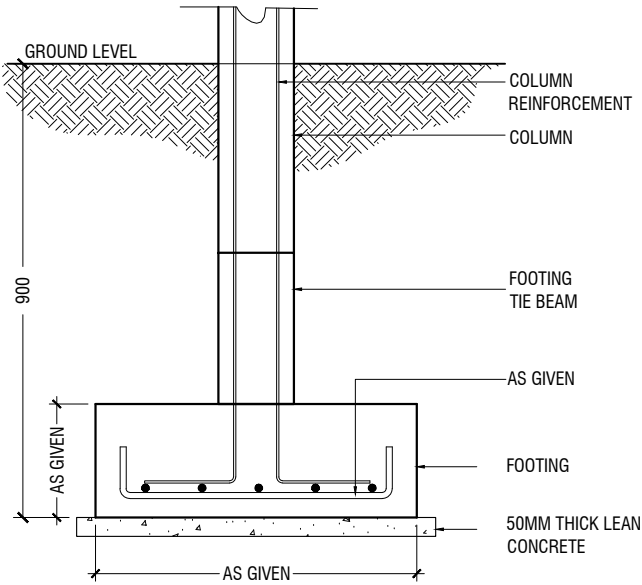
NOTE:-  
COVER TO FOUNDATION = 50mm  
COVER TO COLUMNS = 40mm  
COVER TO BEAMS = 35mm  
LAPS = Ø OF BAR x 45  
BEAMS @END SUPPORT = Ø OF BAR x 12

CONCRETE GRADE = M25  
MIX RATIO = 1:2:3 (USE MASTER POZZOLITH 55R OR EQUIVELENT)  
ASSUMED BEARING CAPACITY = 150KPa  
GROUND SLAB 150MM THICK T10@150 C/C BW  
(SINGLE LAYER) UNLESS MENTIONED OTHERWISE

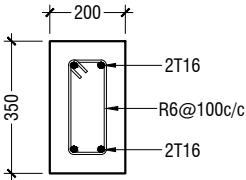
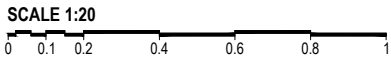
FOOTING DETAILS



PLAN

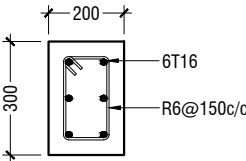
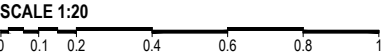


FOOTING DETAILS



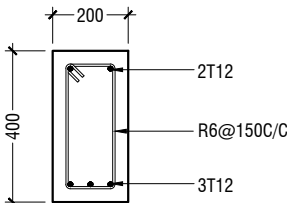
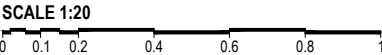
TB

TIE BEAM



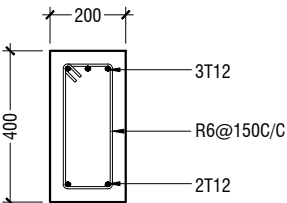
C1

COLUMN DETAILS

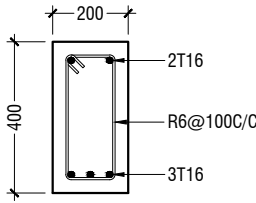


MID SPAN

B1

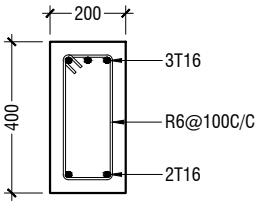


SUPPORT



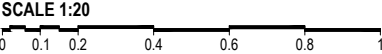
MID SPAN

B2

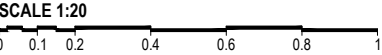


SUPPORT

BEAM DETAILS



STRUCTURAL DETAILS



Ha.Kelaa Health Center  
Client: Ministry of Health  
Project Number: -R21114MOH - HAK  
Date: February 2022  
Architect: Mariyam Irasha Shareef  
Engineer: Zainal Abidheen Ali Rasheed  
Drawn by: Prabhakaran Nadimuthu  
Services: -  
Interior: -



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Title: FIRST FLOOR TO TERRACE  
FLOOR SLAB PLAN

Page: S-10/10

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