

HA.KELAA HEALTH CENTER - SERVICE / ACCOMMODATION BLOCK

ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Health



RIYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv

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

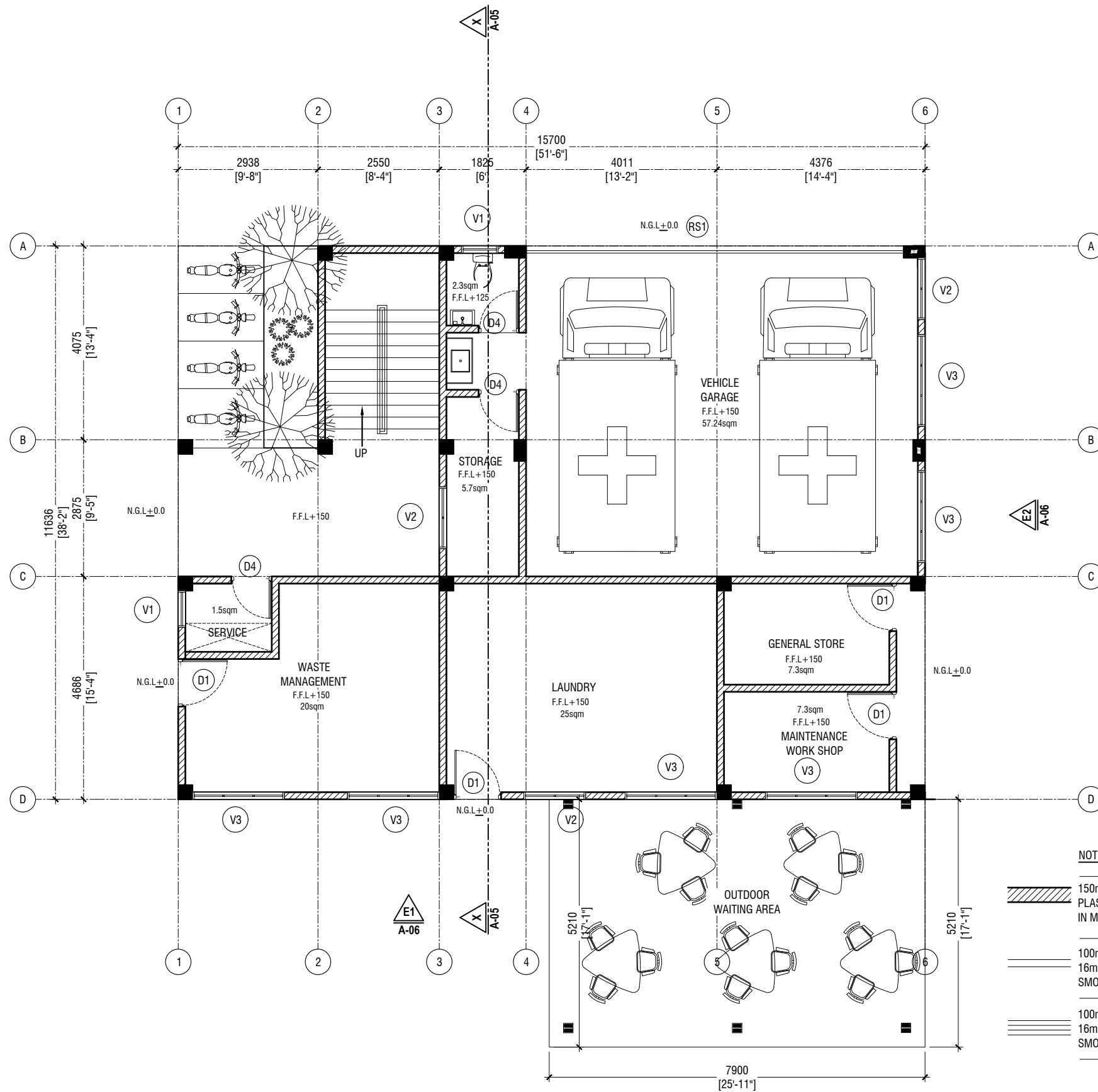
TABLE OF CONTENTS

DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
A R C H I T E C T U R A L		---	---	---
A - 01 /22	SITE PLAN	---	---	---
A - 02 /22	GROUND FLOOR PLAN	---	---	---
A - 03 /22	TYPICAL FLOOR PLAN 1st AND 2nd FLOOR	---	---	---
A - 04 /22	TERRACE FLOOR PLAN	---	---	---
A - 05 /22	SECTION X-X	---	---	---
A - 06 /22	ELEVATION E1 , ELEVATION E2	---	---	---
A - 07 /22	DOOR & WINDOW SCHEDULE - 1	---	---	---
A - 08 /22	DOOR & WINDOW SCHEDULE - 2	---	---	---
A - 09 /22	DOOR & WINDOW SCHEDULE - 3	---	---	---
A - 10 /22	VENTILATION SCHEDULE	---	---	---
A - 11 /22	FLOOR FINISHES PLAN	---	---	---
A - 12 /22	FLOOR FINISHES PLAN	---	---	---
A - 13 /22	FLOOR FINISHES PLAN			
A - 14 /22	REFLECTED CEILING FINISHES PLAN			
A - 15 /22	REFLECTED CEILING FINISHES PLAN			
A - 16 /22	WALL FINISHES PLAN			
A - 17 /22	WALL FINISHES PLAN			
A - 18 /22	WALL FINISHES PLAN			
A - 19 /22	RAILING DETAIL			
A - 20 /22	SLOPE ROOF DETAIL 01			
A - 21 /22	SLOPE ROOF DETAIL 02			
A - 21 /22	STAIRCASE DETAIL			
S T R U C T U R A L				
S - 01 /12	GENERAL NOTES 01	---	---	---
S - 02 /12	GENERAL NOTES 02	---	---	---
S - 03 /12	GENERAL NOTES 03	---	---	---
S - 04 /12	GENERAL NOTES 04	---	---	---
S - 05 /12	GENERAL NOTES 05	---	---	---
S - 06 /12	FOUNDATION PLAN	---	---	---
S - 07 /12	GROUND FLOOR TO 2nd FLOOR COLUMN PLAN	---	---	---
S - 08 /12	TERRACE FLOOR COLUMN PLAN	---	---	---
S - 09 /12	1st TO TERRACE FLOOR BEAM PLAN	---	---	---
S - 10 /12	1st TO TERRACE FLOOR SLAB REINFORCEMENT PLAN	---	---	---
S - 11 /12	ROOF BEAM AND SLAB REINFORCEMENT PLAN			
S - 12 /12	STRUCTURAL DETAILS			



GROUND FLOOR PLAN

SCALE 1:100



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 1000mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION WHITE PAINT FINISH
- 100mm THICK 100mm 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: - R2114MOH - HAK
Date: February 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidin Ali Rasheed
Drawn by: Prabakaran Nadimuth
Interior: -

Rev no	By	Date
-	-	-
-	-	-
-	-	-
-	-	-



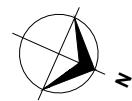
RYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@ryan.com.mv
w: www.ryan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: GROUND FLOOR PLAN

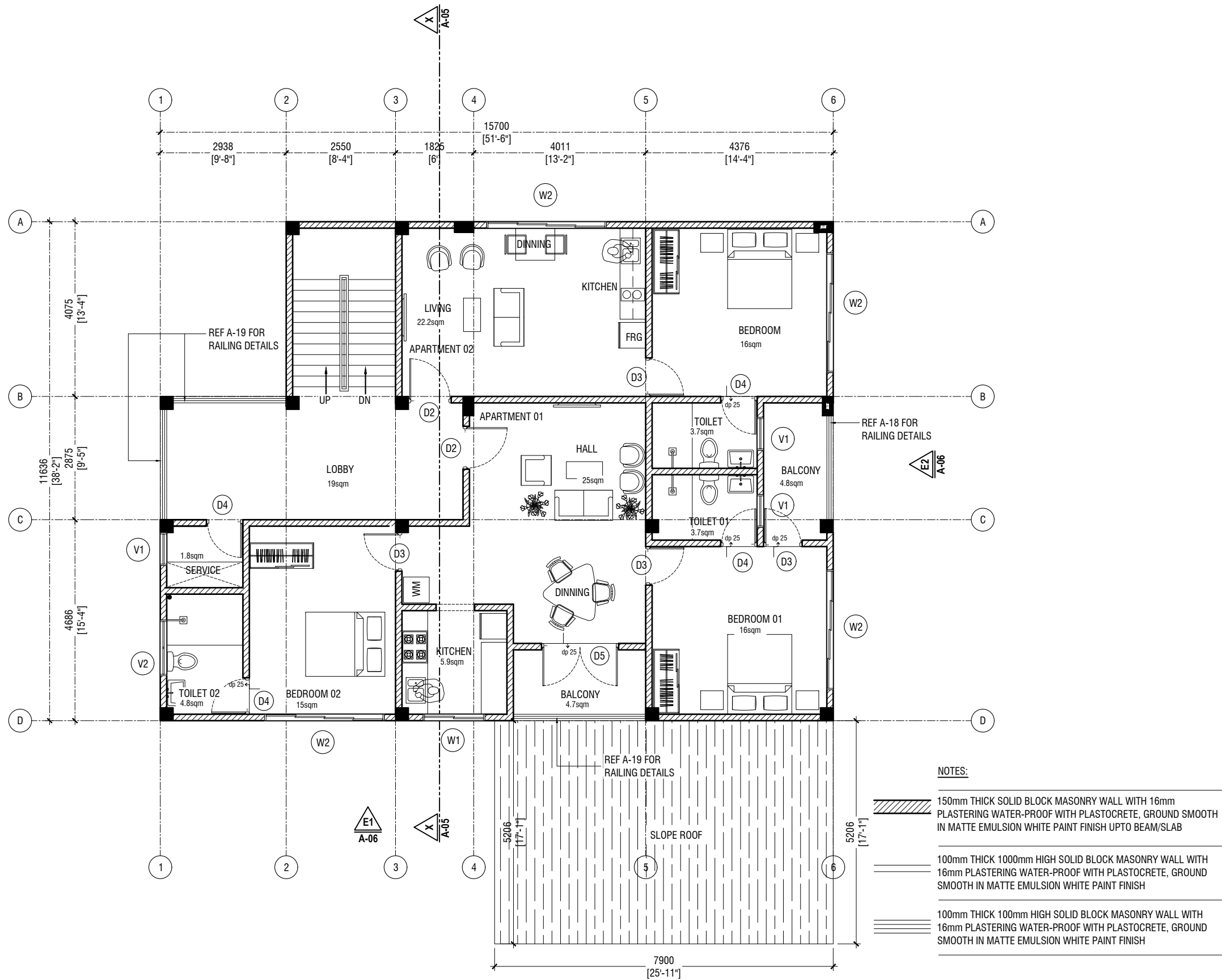
Page: A-02/22

The contents of these drawings remain as a property of RYAN Private Limited. Any use other than those expressly stated is a violation of this copyright.



TYPICAL FLOOR PLAN 1st & 2nd FLOOR

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: Prabakaran Nadimuth
Interior: -

Rev no	By	Date
-	-	-
-	-	-
-	-	-
-	-	-

RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: TYPICAL FLOOR PLAN
1st AND 2nd FLR PLAN

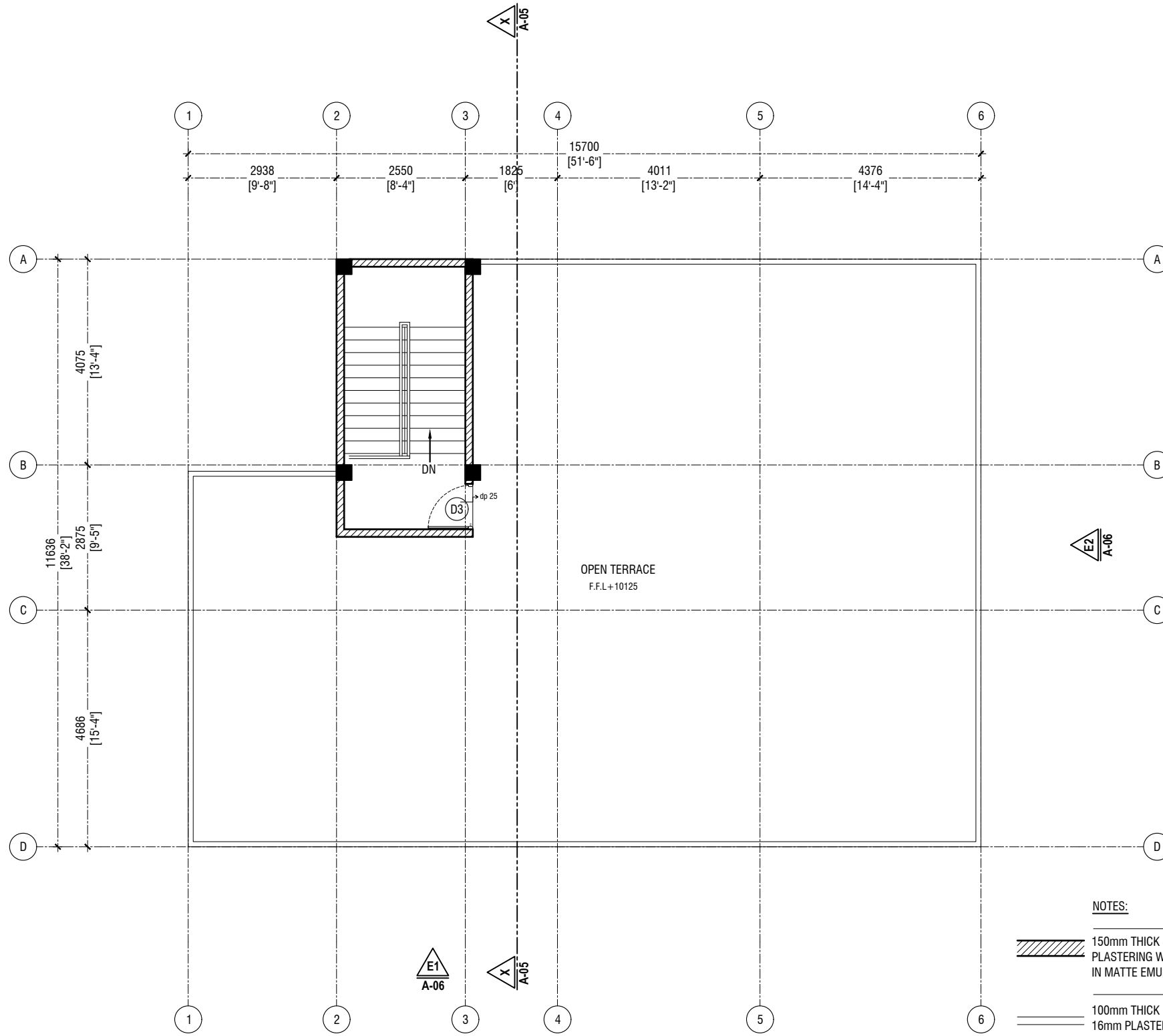
Page: A-03/22

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright






TERRACE FLOOR PLAN

SCALE 1:100



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 1200mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION WHITE PAINT FINISH
-  100mm THICK 100mm 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 Abidin Ali Rasheed

Drawn by: Prabakaran Nadimuth

Services: -
Interior: -

Rev no	By	Date
--	--	--
--	--	--
--	--	--
--	--	--



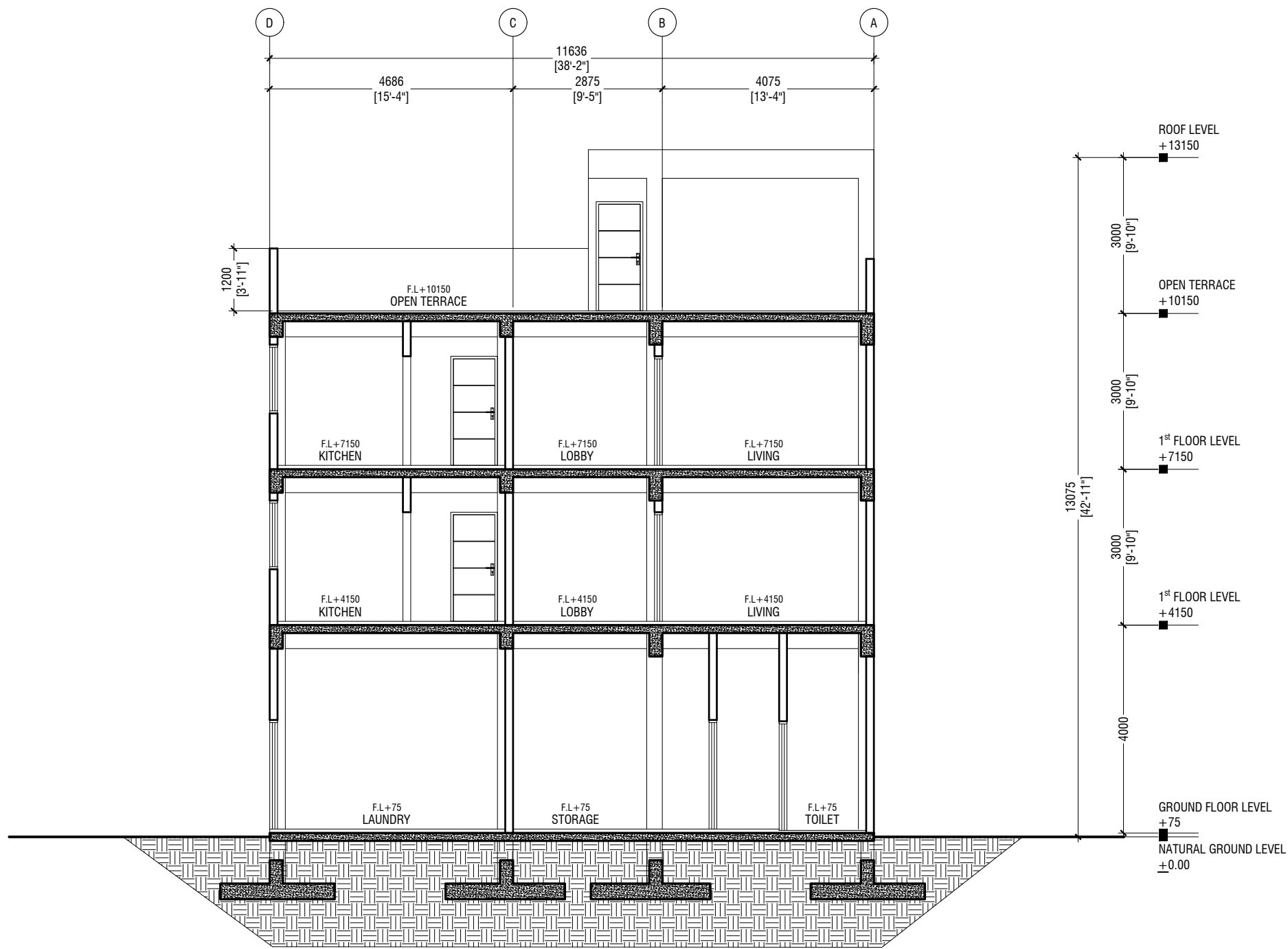
RYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@ryan.com.mv
w: www.ryan.com.mv
3rd floor, H. Azumi, Ameerneemagu, Male'

Title: TERRACE FLOOR PLAN

Page: A-04/22

The contents of these drawings remain as a property of Ryan Private Limited. Any use other than those expressly stated is a violation of this copyright



SECTION X-X

SCALE 1:100



Ha Kelaa Health Center
Client: Ministry of Health

Project Number: - R2T114MOH - HAK

Date: February, 2022

Architect: Mariyam Irasha Shareef

Engineer: Zainal Abidin Ali Rasheed

Drawn by: Pabhakaran Nadimuth

Services: -

Interior: -

Rev no	By	Date
--	--	--
--	--	--
--	--	--
--	--	--



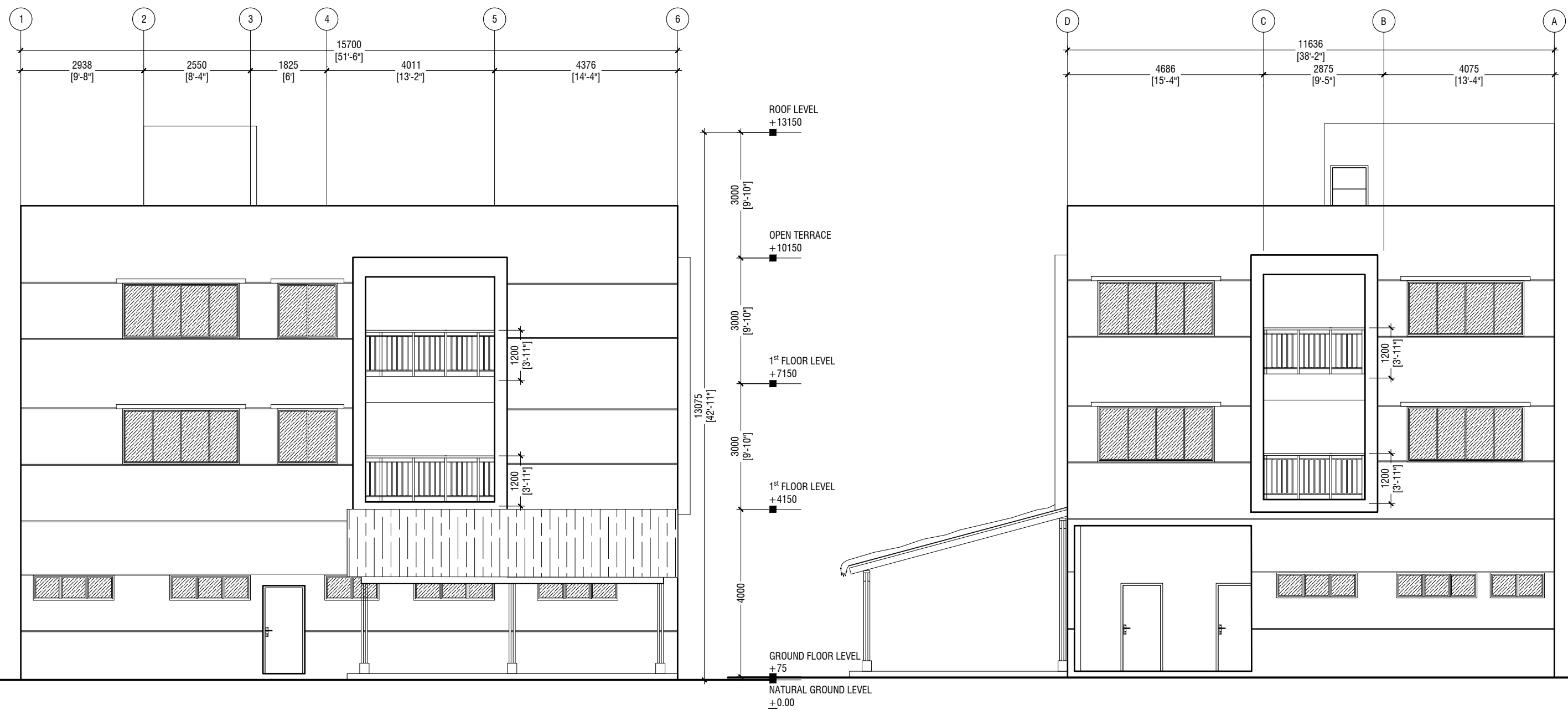
RYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@ryan.com.mv
w: www.ryan.com.mv
3rd floor, H. Azumi, Ameerneemagu, Male'

Title: SECTION X-X

Page: A-05/22

The contents of these drawings remain as a property of RYAN Private Limited. Any use other than those expressly stated is a violation of this copyright



ELEVATION - E1

SCALE 1:100



ELEVATION - E2

SCALE 1:100



Ha Kelaa Health Center
Client: Ministry of Health

Project Number: - R2114/MOH - HAK

Date: February, 2022

Architect: Mariyam Irasha Shareef

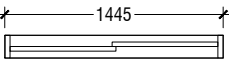
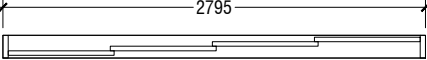
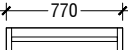
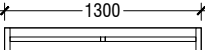
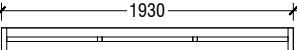
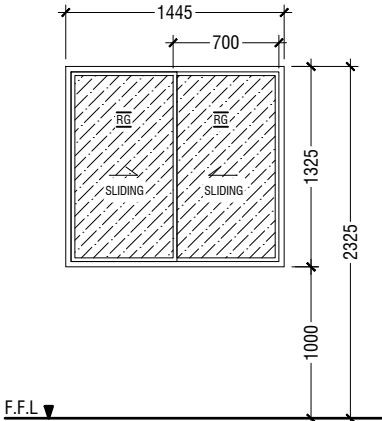
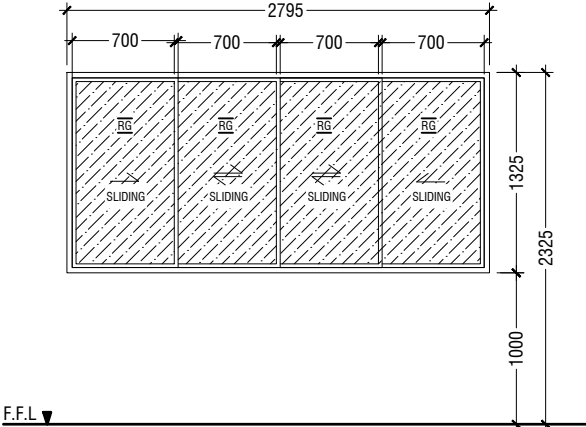
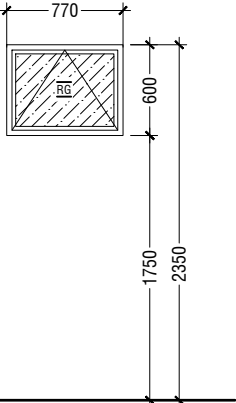
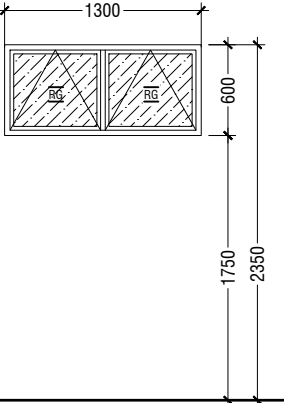
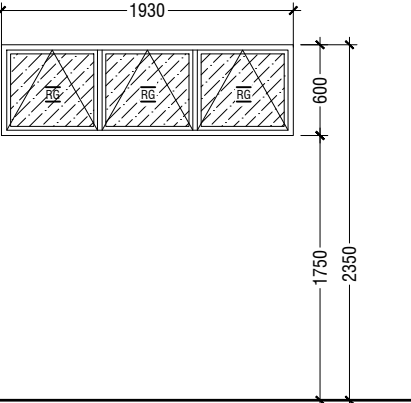
Engineer: Zainal Abidin Ali Rasheed

Drawn by: Prabakaran Nadimuth

Services: -

Interior: -

Rev no	By	Date
1		
2		
3		
4		
5		

ELEMENT ID	W1 SLIDING WINDOW	W2 SLIDING WINDOW	V1 TOP HUNG WINDOW	V2 TOP HUNG WINDOW	V3 TOP HUNG WINDOW
QUANTITY	01	04	04	05	06
W x H SIZE	1420 x 1325	2795 x 1325	770 x 600	1300 x 600	1300 x 600
SILL HEIGHT	1000	0	1750	1750	1750
LINTEL HEIGHT	2325	2325	2350	2350	2350
2D SYMBOL					
ELEVATION					
FIRE RESISTANCE RATING	20 MINUTES	20 MINUTES	20 MINUTES	20 MINUTES	20 MINUTES
LOCATION	KITCHEN	BEDROOM	TOILET, SERVICE ROOM	LAUNDRY,GARAGE, STORAGE	LAUNDRY,GARAGE, WORK SHOP, WASTE MANAGEMENT
AREA	0.87 SQM	2.57 SQM	0.37 SQM	0.65 SQM	1.0 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	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	BLACK POWDER COATED (60 MICRONS) ALUMINUM FRAME DEPTH TO BE WIDTH OF THE WALL WITH 6mm THICK REFLECTED GLASS
HARWARE	LOCKSET : SLIDING WINDOW TOUCH LOCK	LOCKSET : SLIDING WINDOW TOUCH LOCK	HINGE : TOP HUNG ARMS LOCKSET : FLAT HANDLE DOOR LATCH & SASH LOCK	HINGE : TOP HUNG ARMS LOCKSET : FLAT HANDLE DOOR LATCH & SASH LOCK	HINGE : TOP HUNG ARMS LOCKSET : FLAT HANDLE DOOR LATCH & SASH LOCK

NOTE:-

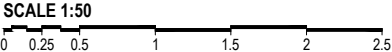
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- INTERNAL DOORS FRAME DEPTH TO BE WIDTH OF THE WALL.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- 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

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

Project Number : - R2114MOH - HAK

Date: February 2022

Architect : Mariyam Irasha Shareef

Engineer : Zainal Abidheen Ali Rasheed

Drawn by : Prabhakaran Nadimuth

Services : -

Interior : -

Rev no

By

Date

--

--

--

--

--

--




RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776

e: info@riyan.com.mv

w: www.riyan.com.mv

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

ELEMENT ID	RS1 - ROLLING SHUTTER
QUANTITY	01
W x H SIZE	7937 X 3325
SILL HEIGHT	3325
LINTEL HEIGHT	3325
2D SYMBOL	
ELEVATION	
FIRE RESISTANCE RATING	
LOCATION	GARAGE
AREA	26.4sqm
REMARKS	STEEL - FRAMED ROLLER SHUTTER DOOR WITH MECHANICAL OPENING SYSTEM

Ha.Kelaa Health Center

Client: Ministry of Health

Project Number : R21144MOH - HAK

Date: February 2022

Architect : Mariyam Irasha Shareef

Engineer : Zainal Abidheen Ali Rasheed

Drawn by : Prabhakaran Nadimuth

Services : -

Interior : -

Rev no

By

Date

--

--

--

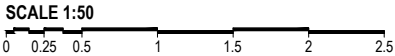
--

--

--

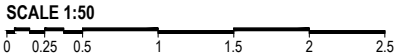
--

DOOR / WINDOW SCHEDULE - 03



	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					
	Vehicle Garage	57.24	RS1,2*V3,V2	5.724	28.65	50.05%
	Toilet	2.3	V1	0.23	0.37	16.09%
	General Store	7.3	D1	0.73	1.85	25.34%
	Store	5.7	V2	0.57	0.65	11.40%
	Maintenance Workshop	20	V3,D1	2	2.85	14.25%
	Laundry	25	V3,V2,D1	2.5	3.5	14.00%
	Waste Management	7.3	2*V3	0.73	2	27.40%
	Service	1.5	V1	0.15	0.37	24.67%
	Typical Floor Plan (First & Second Floor)					
	Apartment 01					
	Bedroom 01	16	W2	1.6	2.57	16.06%
	Toilet 01	3.7	V1	0.37	0.37	10.00%
	Bedroom 02	15	W2	1.5	2.57	17.13%
	Toilet 02	4.8	V2	0.48	0.65	13.54%
	Kitchen	5.9	W1	0.59	0.87	14.75%
	Dining and Hall	25	D5	2.5	3.48	13.92%
	Apartment 02					
	Bedroom 01	16	W2	1.6	2.57	16.06%
	Toilet 01	3.7	V1	0.37	0.37	10.00%
	Kitchen, Dining and Hall	22.2	W2	2.22	2.57	11.58%

VENTILATION SCHEDULE



Ha.Kelaa Health Center

Client: Ministry of Health

Project Number : R2114MOH - HAK

Date: February 2022

Architect : Maryam Irasha Shareef

Engineer : Zainal Abidheen Ali Rasheed

Drawn by : Prabhakaran Nadimuth

Services : -

Interior : -

Rev no	By	Date
--	---	---
--	---	---
--	---	---

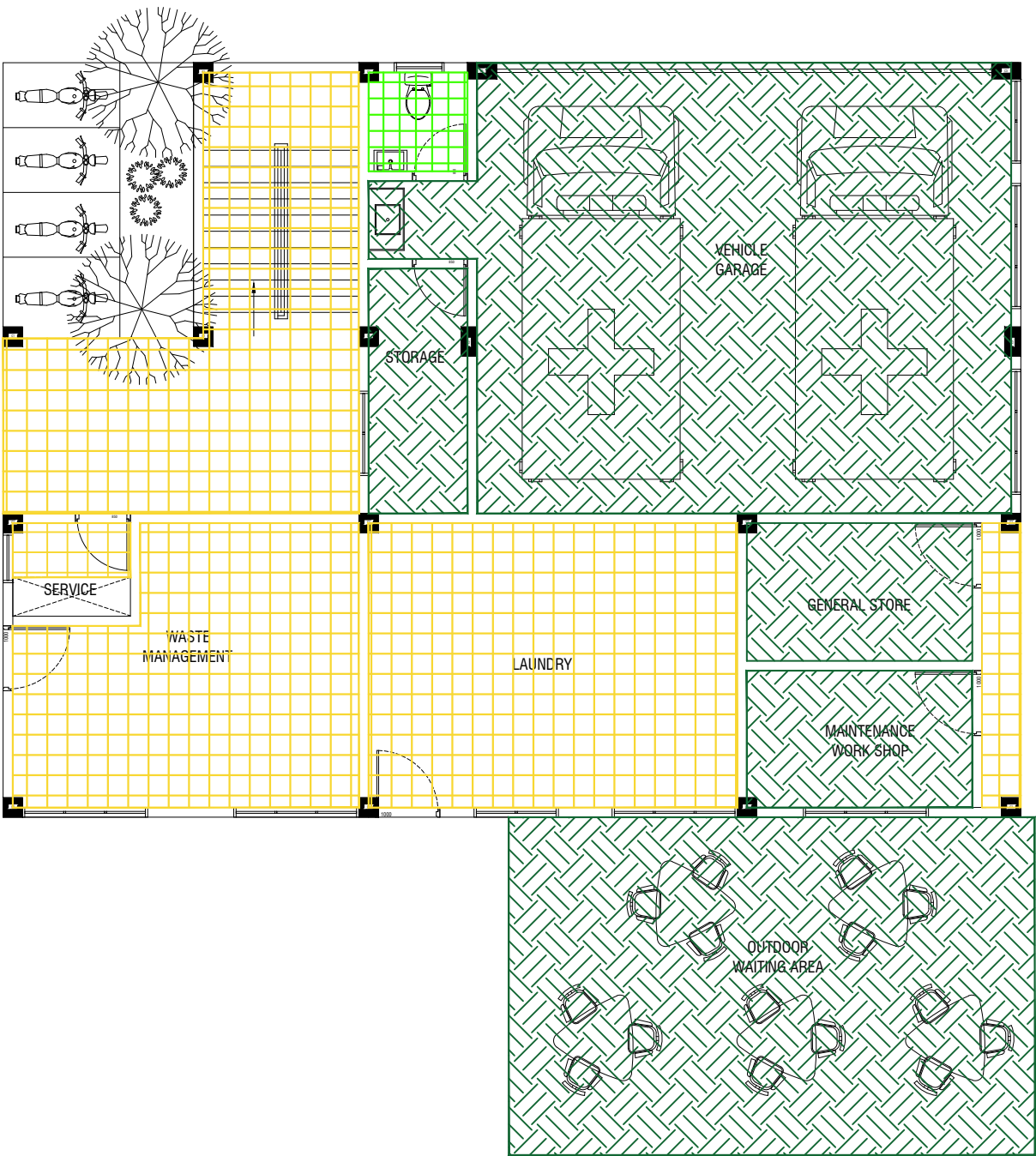
RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776

e: info@riyan.com.mv

w: www.riyan.com.mv

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



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

GROUND FLOOR
FLOOR FINISHES 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: Prabakaran Nadimuth

Services: -

Interior: -



RYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@ryan.com.mv
w: www.ryan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: FLOOR FINISHES PLAN

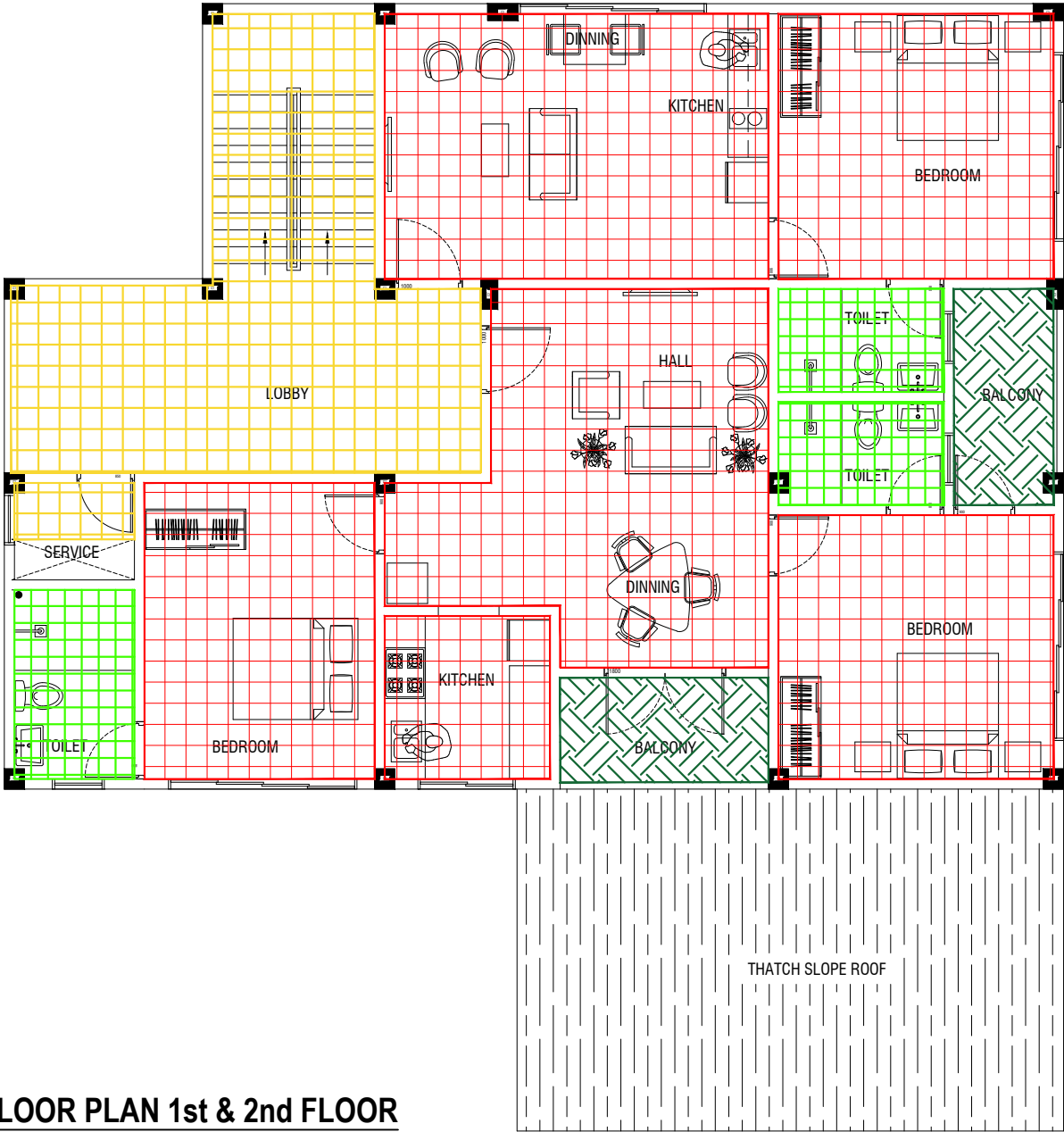
Page: A-11/22

The contents of these drawings remain as a property of Ryan Private Limited. Any use other than those expressly stated is a violation of this copyright

TYPICAL FLOOR PLAN 1st & 2nd FLOOR
FLOOR FINISHES PLAN

SCALE 1:100

0 0.5 1 2 3 4 5



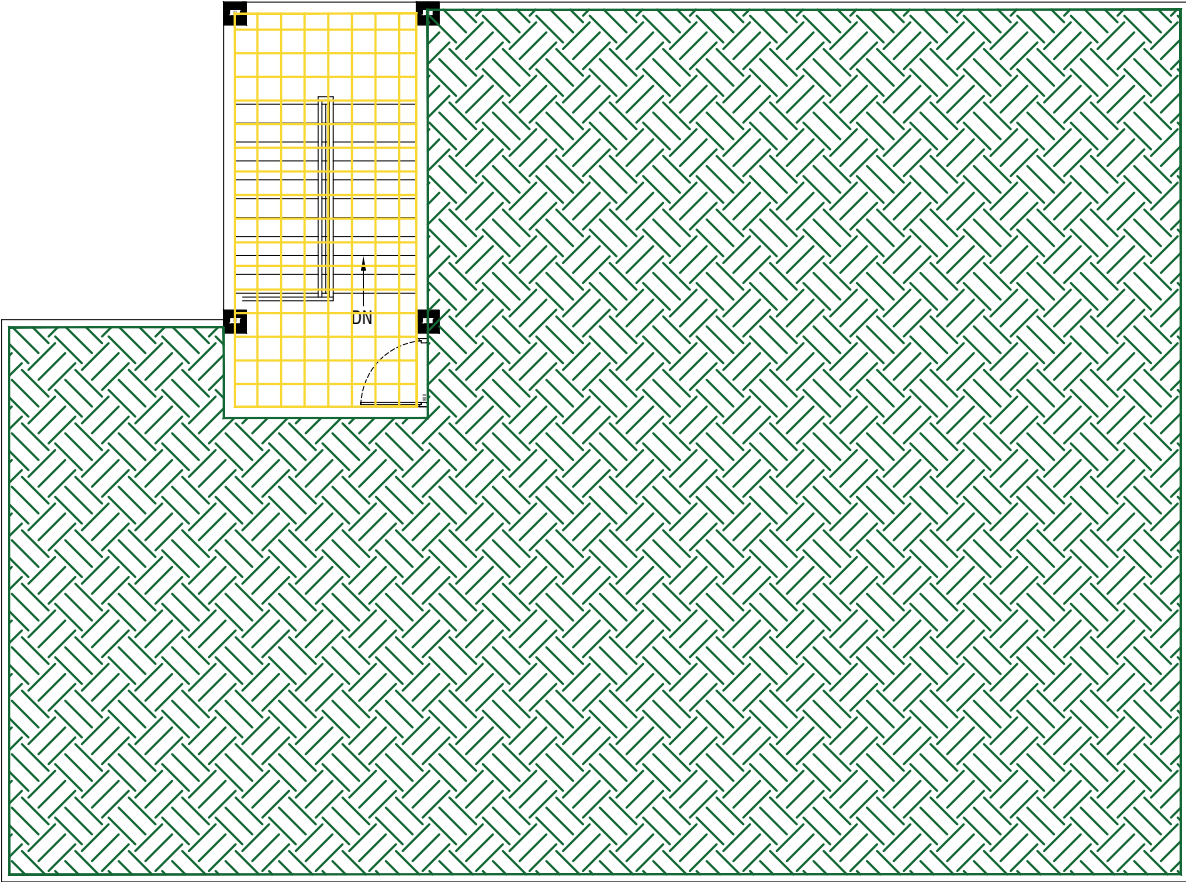
LEGEND:		
Code	Description	
FF01		1200mmX1200mm Polished Porcelain Floor Tile
FF02		1200mmX1200mm Semi Polished Porcelain Floor Tile
FF03		800mmX800mm Semi Polished Porcelain Floor Tile
FF04		600mmX600mm Matte Ceramic Floor Tile
FF05		600mmX600mm Matte Ceramic Outdoor Floor Tile
FF06		300mmX300mm Matte 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: - R2114MOH - HAK
Date: February, 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidin Ali Rasheed
Drawn by: Prabakaran Nadimuth
Services: -
Interior: -

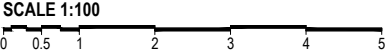
Rev no	By	Date


RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: FLOOR FINISHES PLAN



**TERRACE FLOOR
FLOOR FINISHES PLAN**



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	

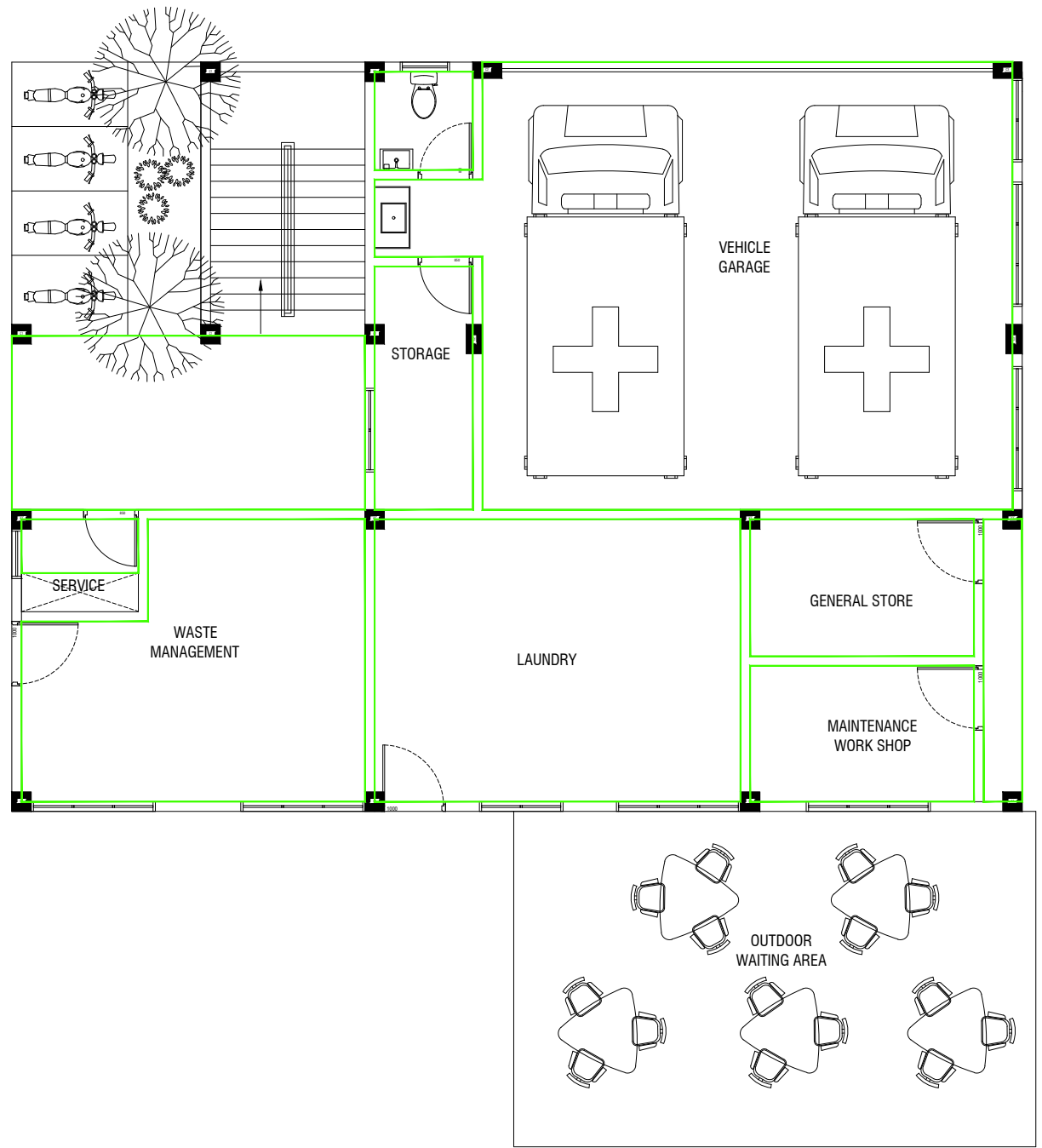
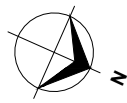
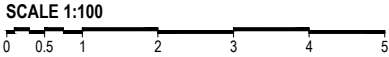
Ha.Kelaa Health Center
Client: Ministry of Health
Project Number: - R2114MOH - HAK
Date: February 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidheen Ali Rasheed
Drawn by: Prabakaran Nadimuth
Services: -
Interior: -

Rev no	By	Date
1		
2		
3		
4		
5		

RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: FLOOR FINISHES PLAN

GROUND FLOOR
REFLECTED CEILING PLAN



LEGEND:

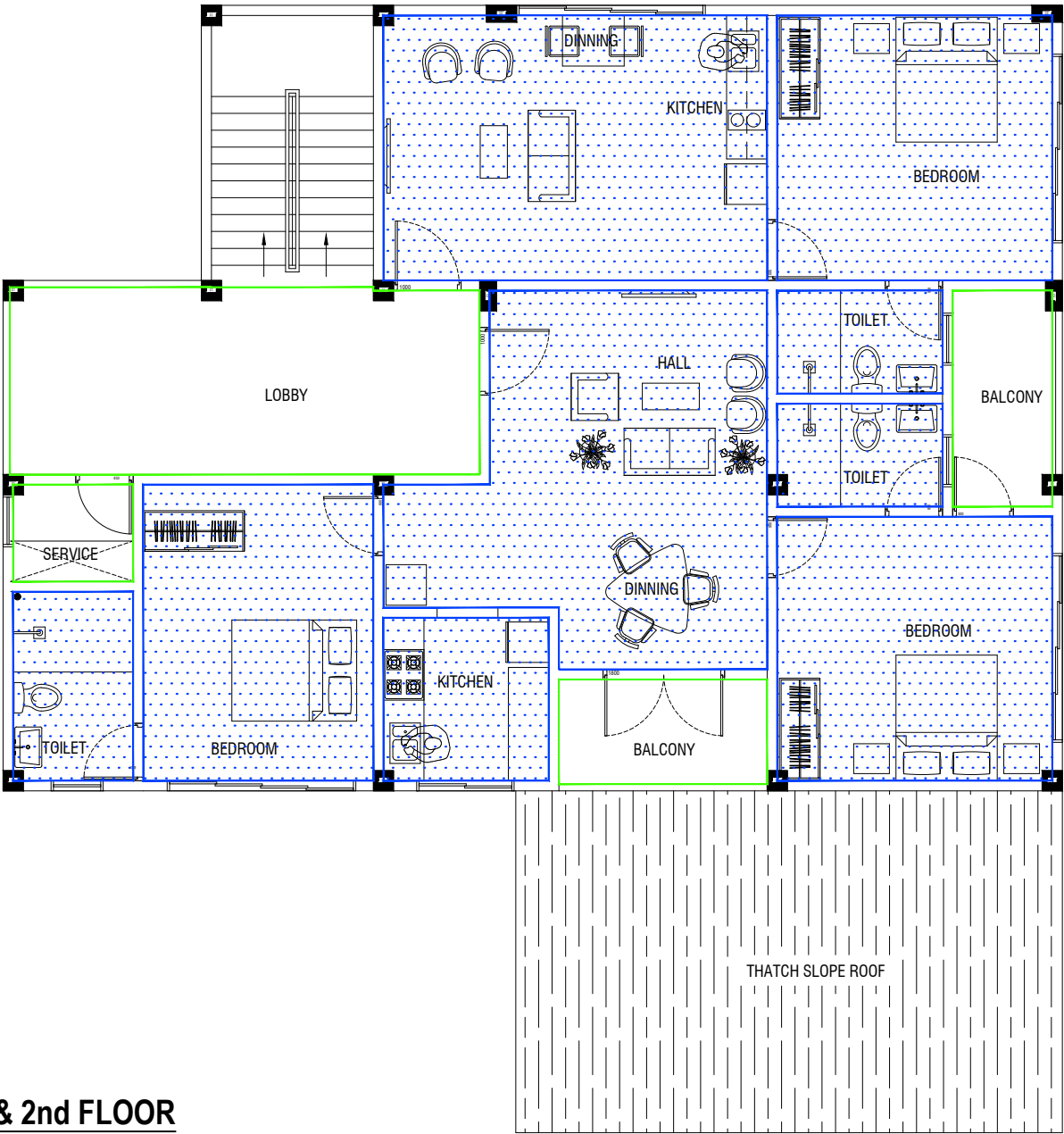
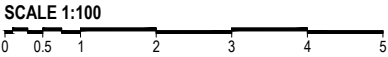
Code	Description	
CF01	FALSE FLAT CEILING WITH 12mm CALCIUM SILICATE BOARD UNDER 50x50mm CEILING JOIST WITH EMULSION PAINT FINISH	
CF02	FALSE FLAT CEILING WITH 12mm THICK GYPSUM BOARD UNDER 50x50mm CEILING JOIST WITH EMULSION PAINT FINISH	
CF03	SMOOTH PUTTY UNDER RC SLAB/BEAM WITH SATIN WHITE PAINT FINISH	

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: Prabakaran Nadimuth
Services: -
Interior: -

RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright

TYPICAL FLOOR PLAN 1st & 2nd FLOOR
REFLECTED CEILING PLAN



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/BEAM WITH SATIN WHITE PAINT FINISH	

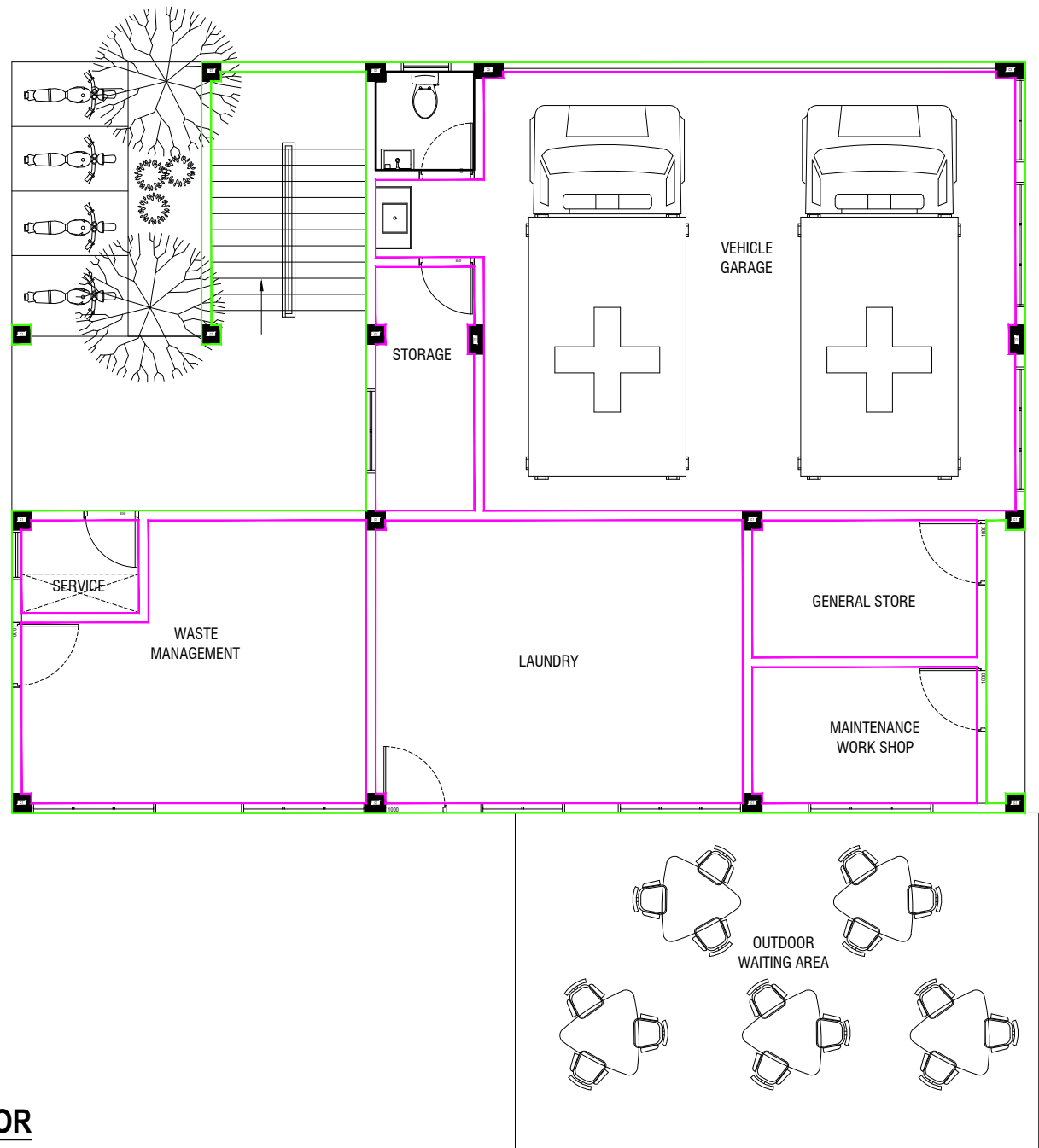
Ha.Kelaa Health Center
Client: Ministry of Health
Project Number: - R2114MOH - HAK
Date: February, 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidin Ali Rasheed
Drawn by: Prabakaran Nadimuth
Services: -
Interior: -

RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: REFLECTES CEILING
FINISHES PLAN
Page: A-15/22

GROUND FLOOR
WALL FINISHES PLAN

SCALE 1:100



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
Client: Ministry of Health
Project Number: - R2114MOH - HAK
Date: February, 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidheen Ali Rasheed
Drawn by: Pabhakaran Nadimuth
Services: -
Interior: -



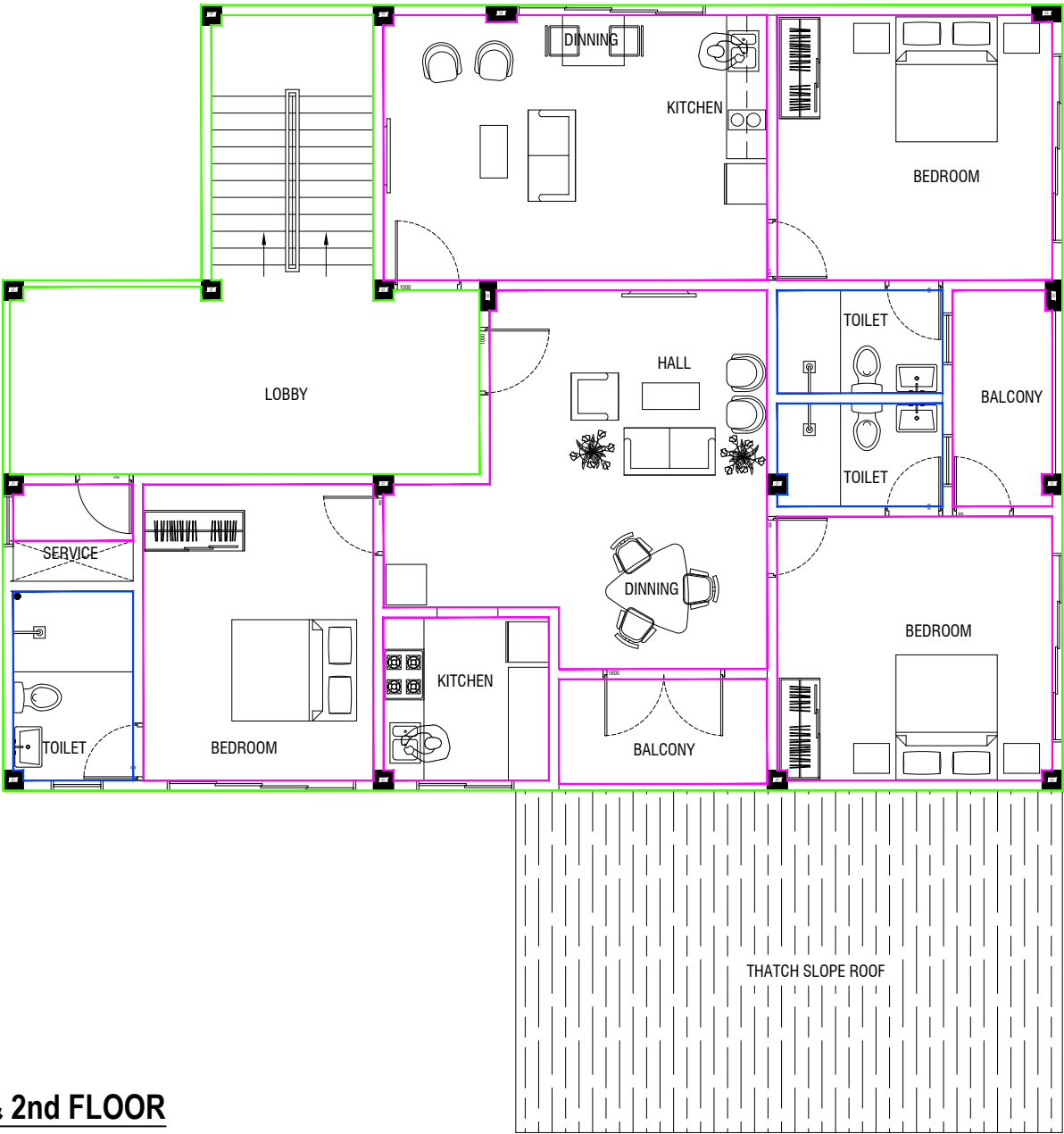
RYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@ryan.com.mv
w: www.ryan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: WALL FINISHES PLAN

TYPICAL FLOOR PLAN 1st & 2nd FLOOR
WALL FINISHES PLAN

SCALE 1:100



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
Client: Ministry of Health
Project Number: - R2114MOH - HAK
Date: February, 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidheen Ali Rasheed
Drawn by: Prabakaran Nadimuth
Services: -
Interior: -

Rev no	By	Date


RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: WALL FINISHES PLAN



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

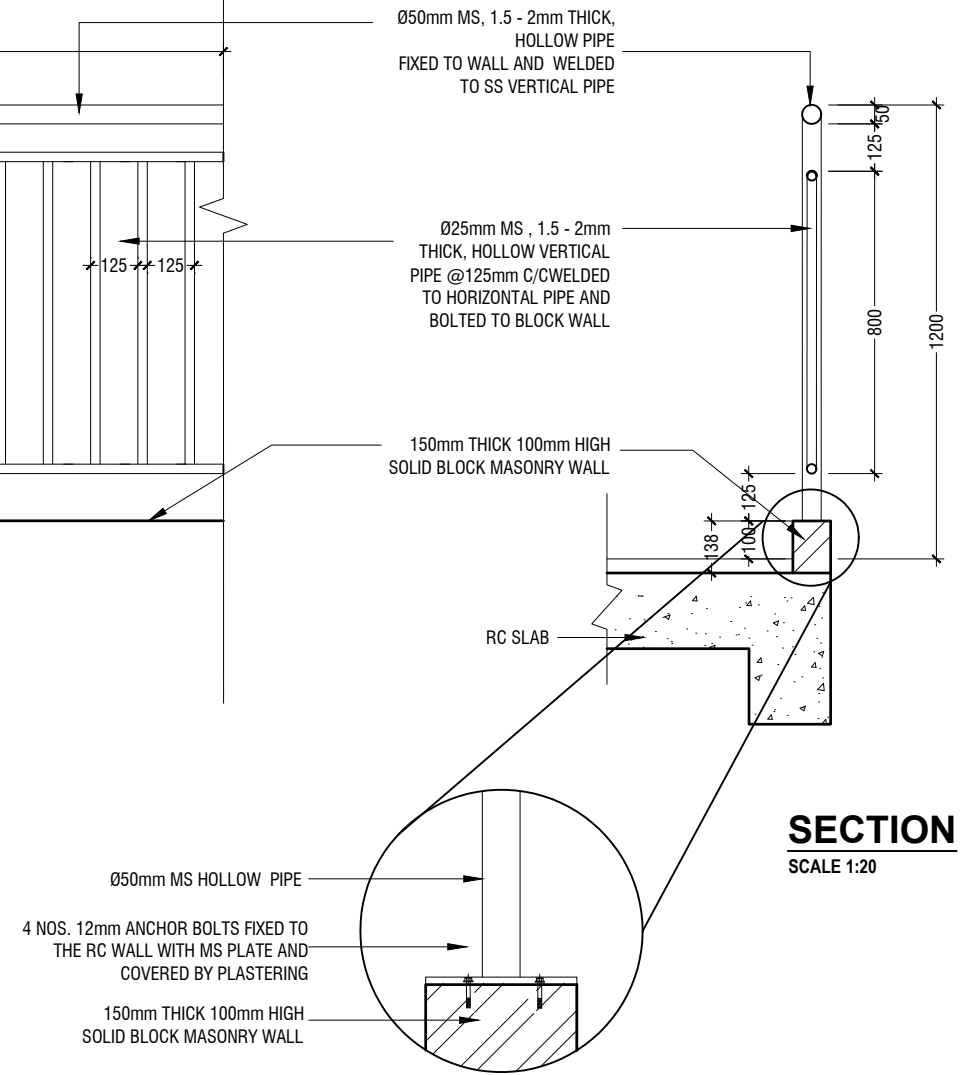
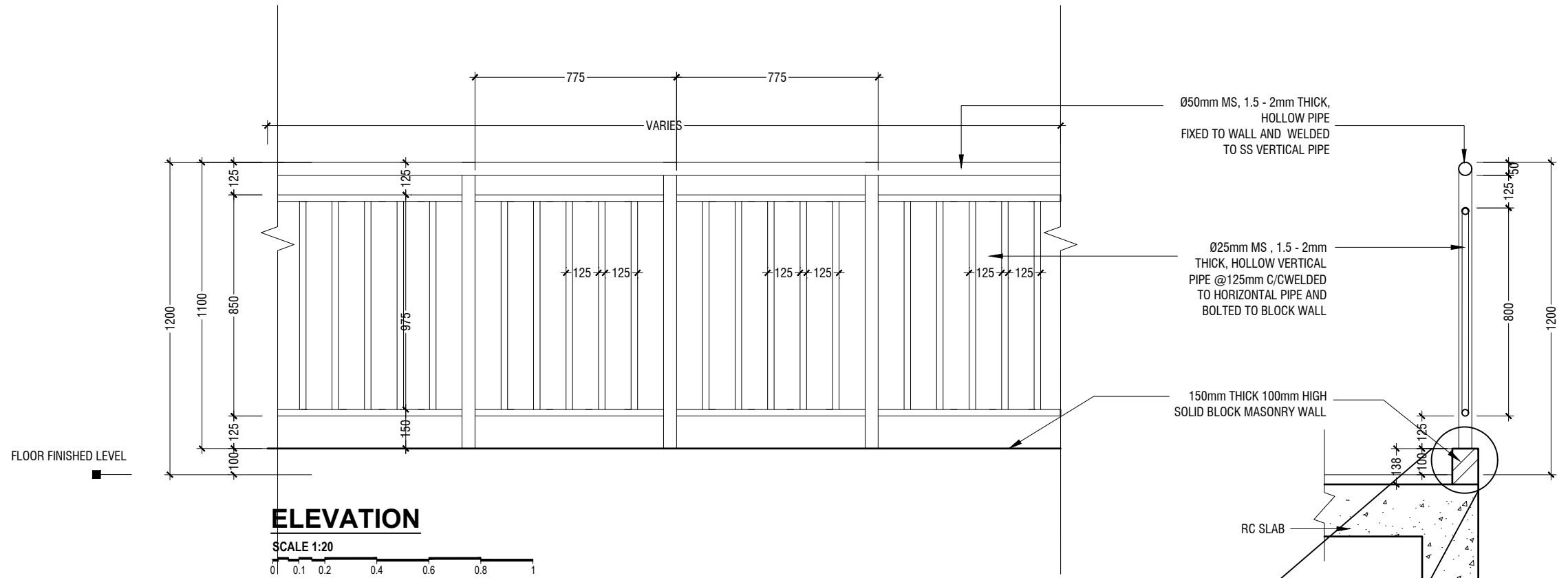
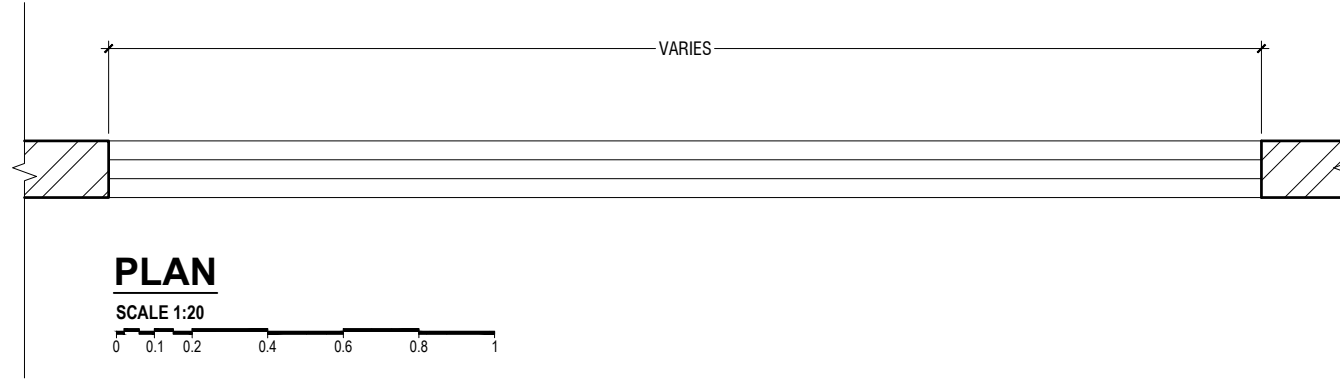
Rev no	By	Date
--	-----	-----
--	-----	-----
--	-----	-----

HaKelaa Health Center
Client: Ministry of Health
 Project Number: - R2114MOH - HAK
 Date: February 2022
 Architect : Maryam Irasha Shareef
 Engineer : Zainal Abideen Ali Rasheed
 Drawn by : Prabhakaran Nadimuth
 Services : -
 Interior : -



t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Page: A-18/22



TYPICAL BALCONY AND CORRIDOR RAILING DETAILS

SCALE 1:20

Ha.Kelaa Health Center
Client: Ministry of Health

Project Number: - R2114/MOH - HAK
Date: February 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidheen Ali Rasheed
Drawn by: Prabhakaran Nadimuth
Services: -
Interior: -

Rev no	By	Date
--	--	--
--	--	--
--	--	--
--	--	--

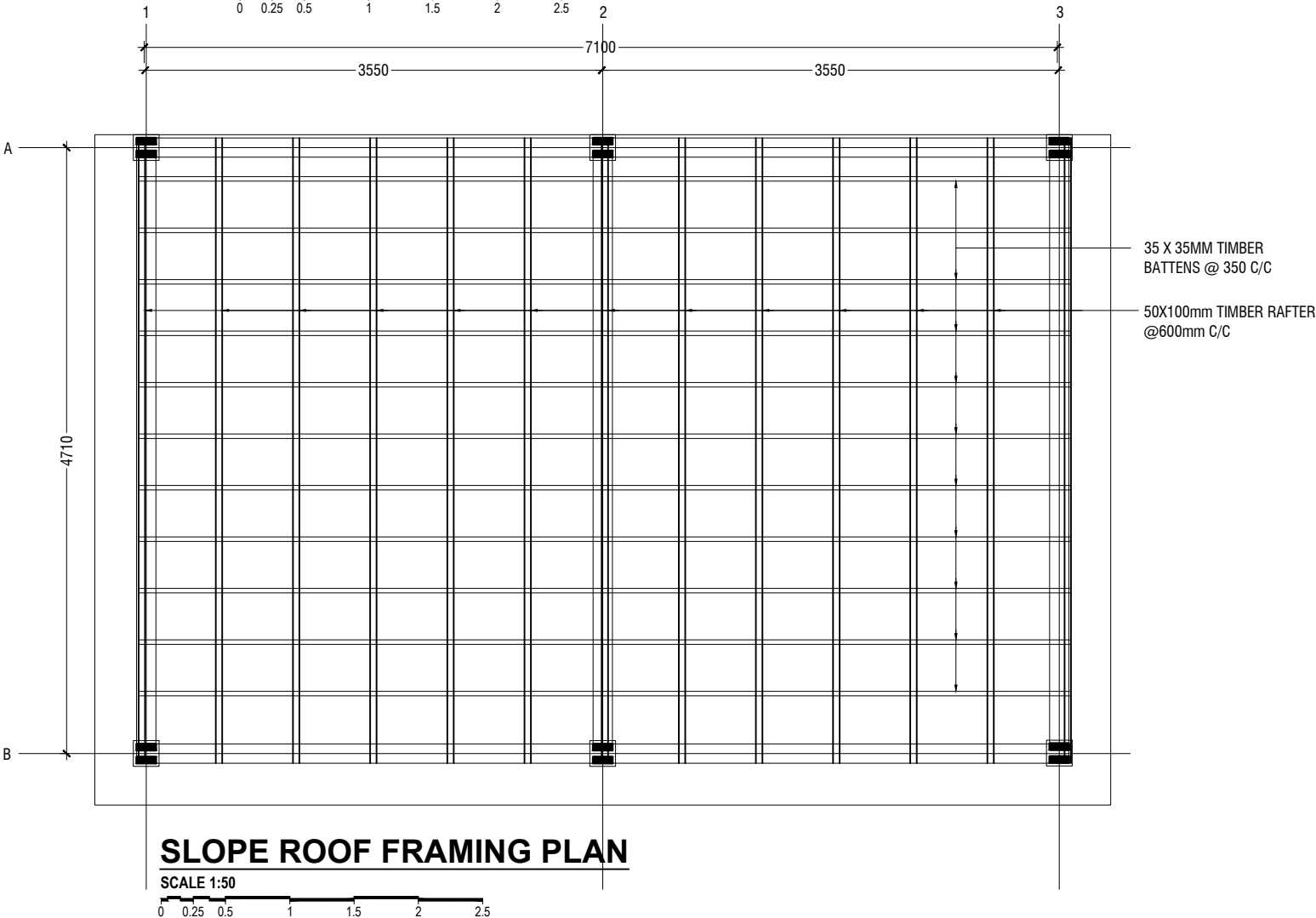
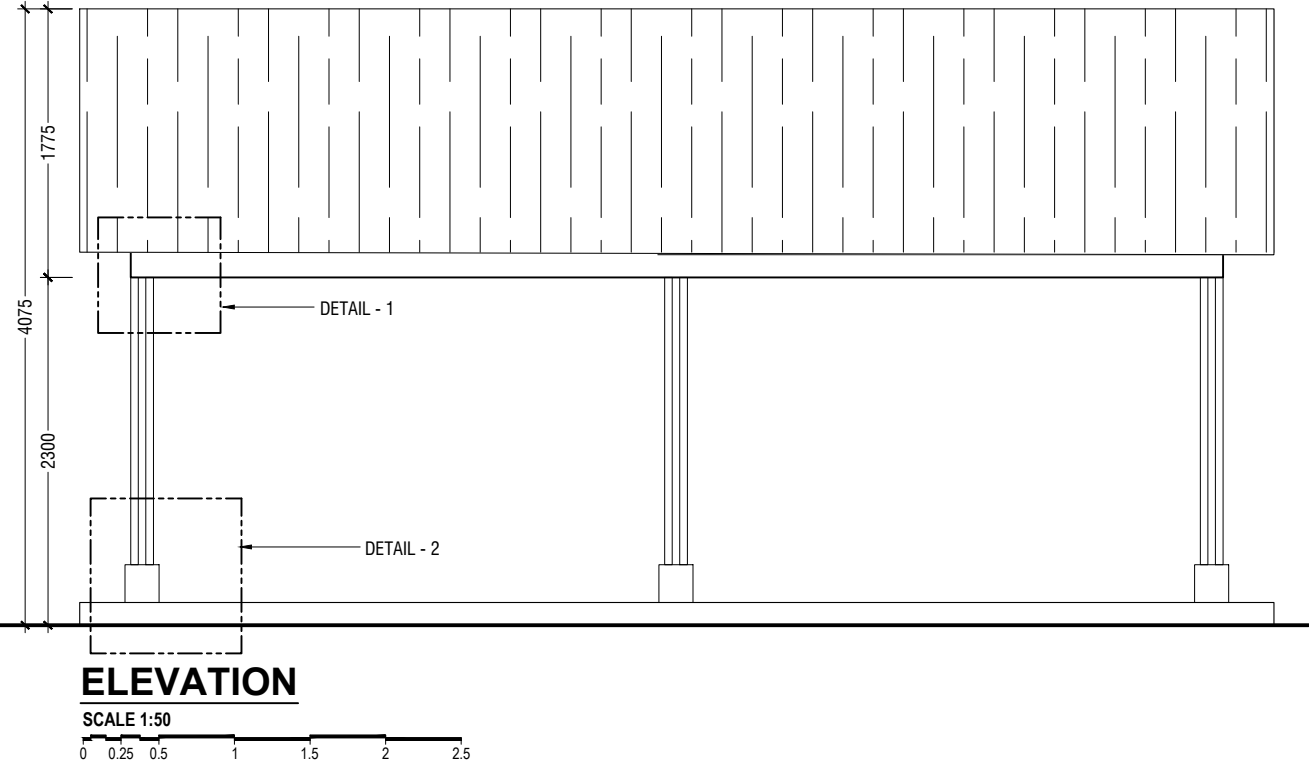
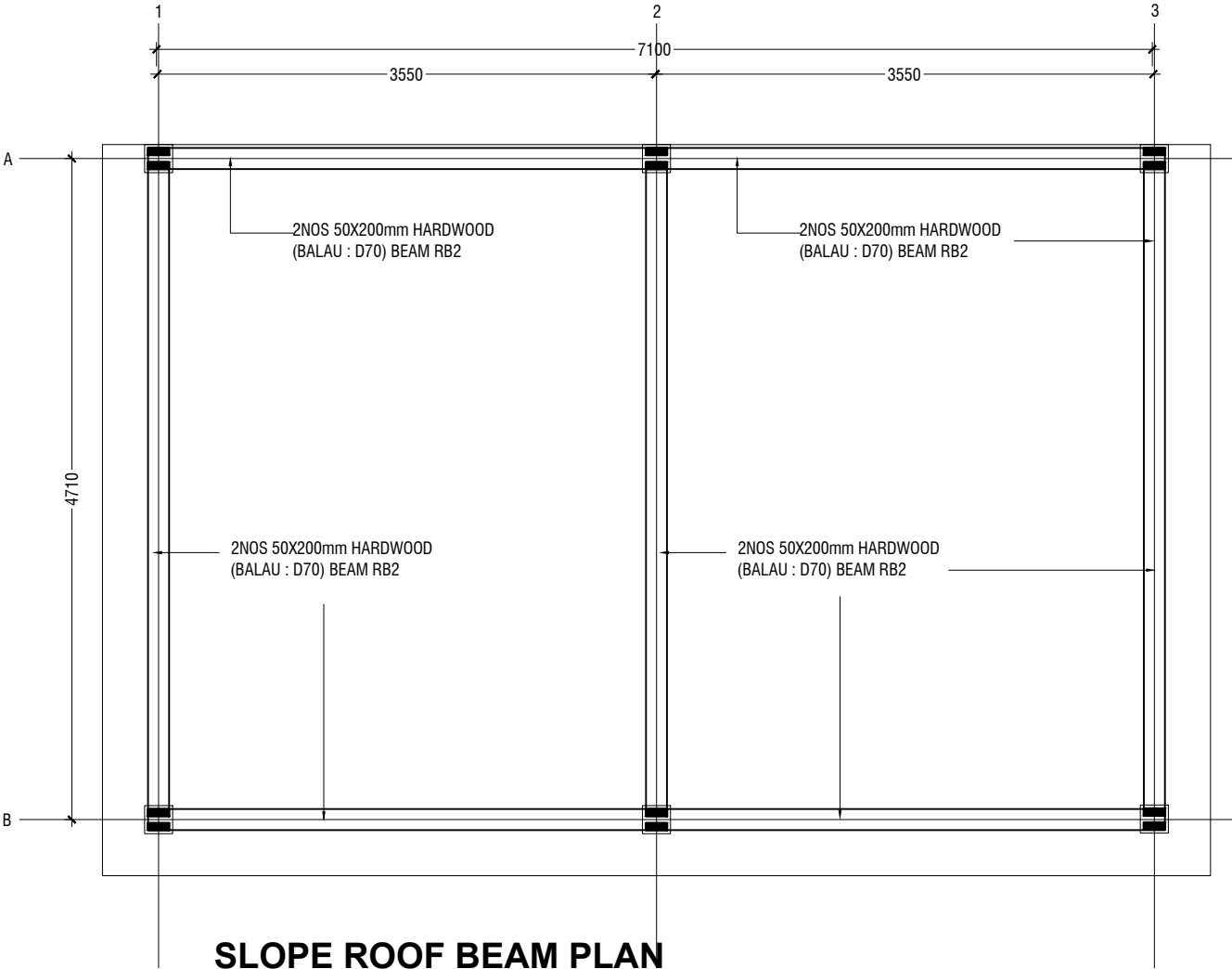
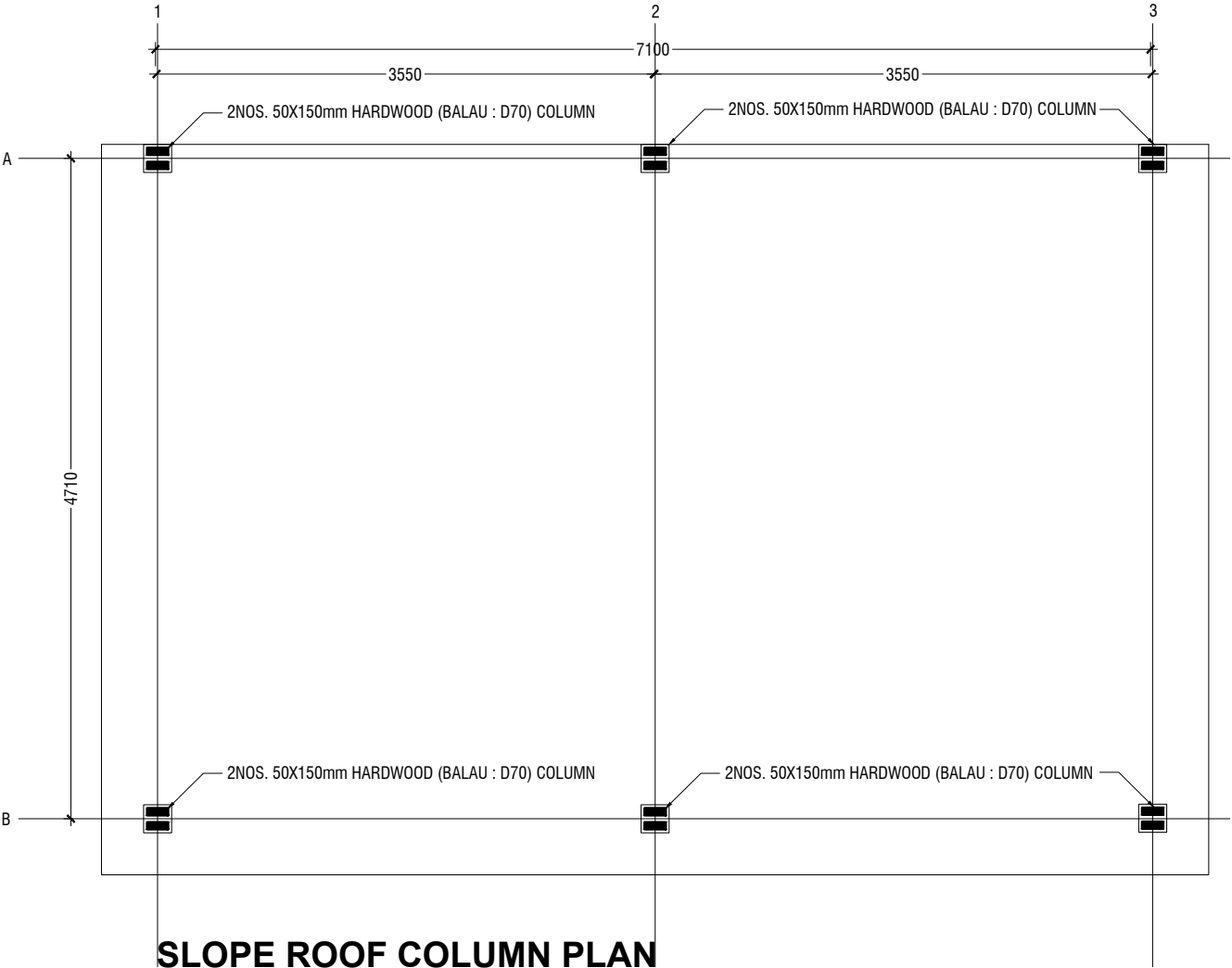


RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Amiensennagu, Male'

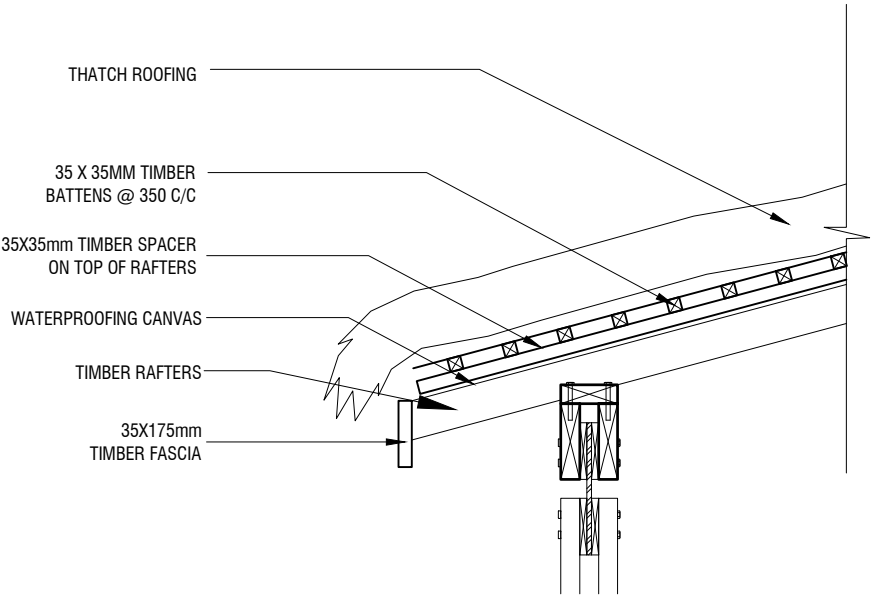
Title: RAILING DETAIL

Page: A-19/22



Rev no	By	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Ha.Kelaa Health Center
Client: Ministry of Health
Project Number: - R2T14MOH - HAK
Date: February 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abiddeen Ali Rasheed
Drawn by: Pradhakaran Nadimuth
Services: -
Interior: -



ROOF SECTION DETAILS

SCALE 1:20

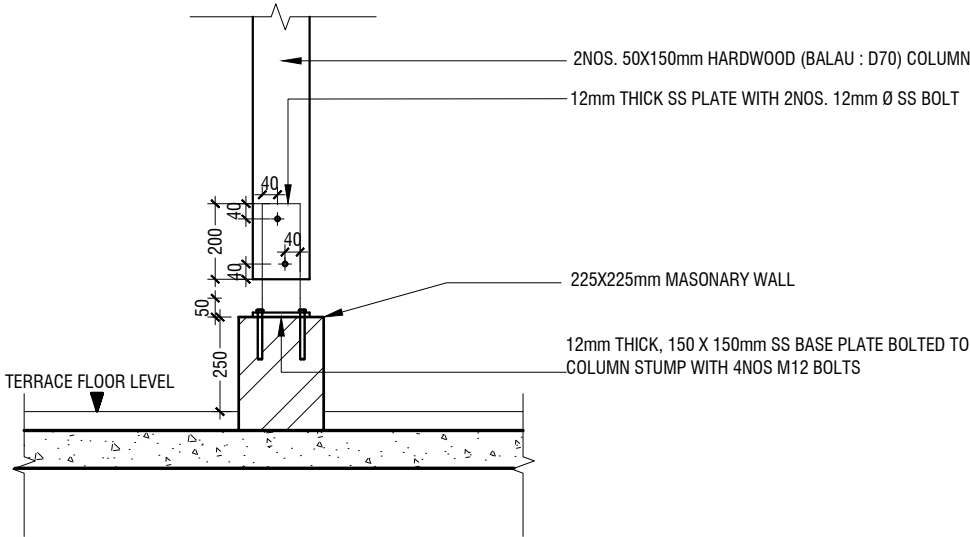
0 0.1 0.2 0.4 0.6 0.8 1

- TIMBER RAFTER
- 2NOS 50X200 HARDWOOD TIMBER (BALAU : D70) BEAMS
- 2NOS M12 SS BOLTS WITH WASHERS AND NUTS
- 2NOS, 19MM THICK 150X150 HARDWOOD PLATES
- 12MM THICK 150X350 SS PLATE,PAINTED BLACK
- 2NOS. 50X150mm HARDWOOD (BALAU : D70) COLUMN C3
- 2NOS 50X150 HARDWOOD TIMBER (BALAU : D70) COLUMN

DETAIL - 01

SCALE NTS

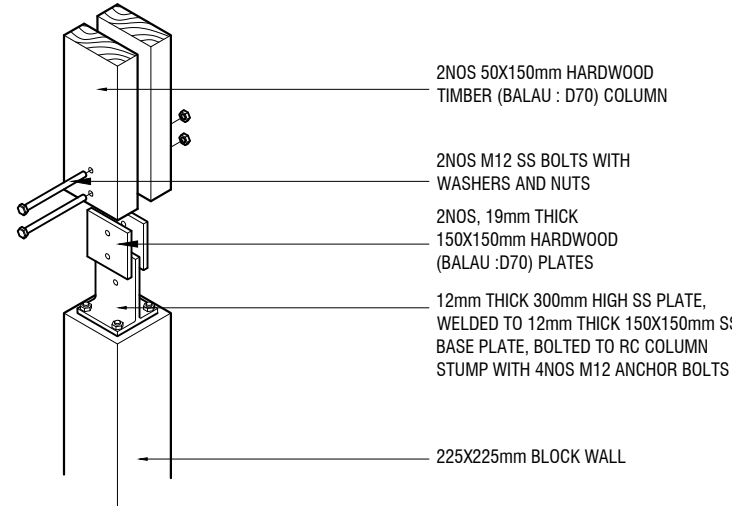
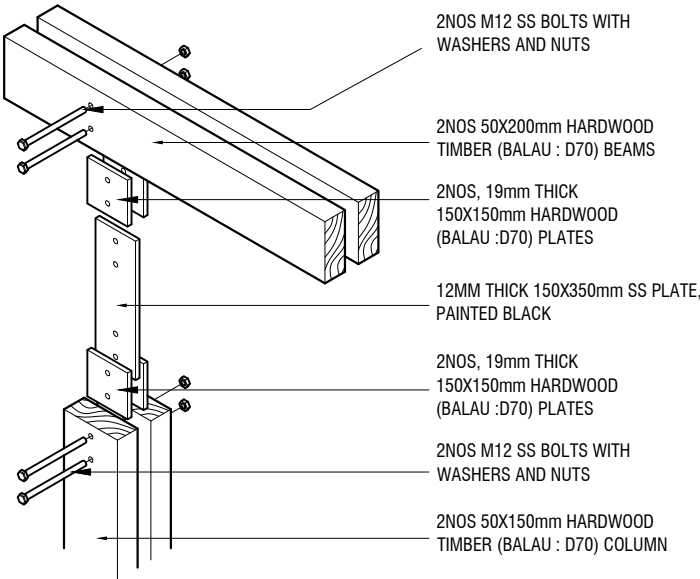
0 0.1 0.2 0.4 0.6 0.8 1



DETAIL-2 COLUMN FIXING DETAIL

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



ISOMETRIC

NTS

Ha.Kelaa Health Center

Client: Ministry of Health

Project Number: - R2114MOH - HAK

Date: February 2022

Architect: Mariyam Irasha Shareef

Engineer: Zainal Abidheem Ali Rasheed

Drawn by: Prabhakaran Nadimuth

Services: - Interior: -

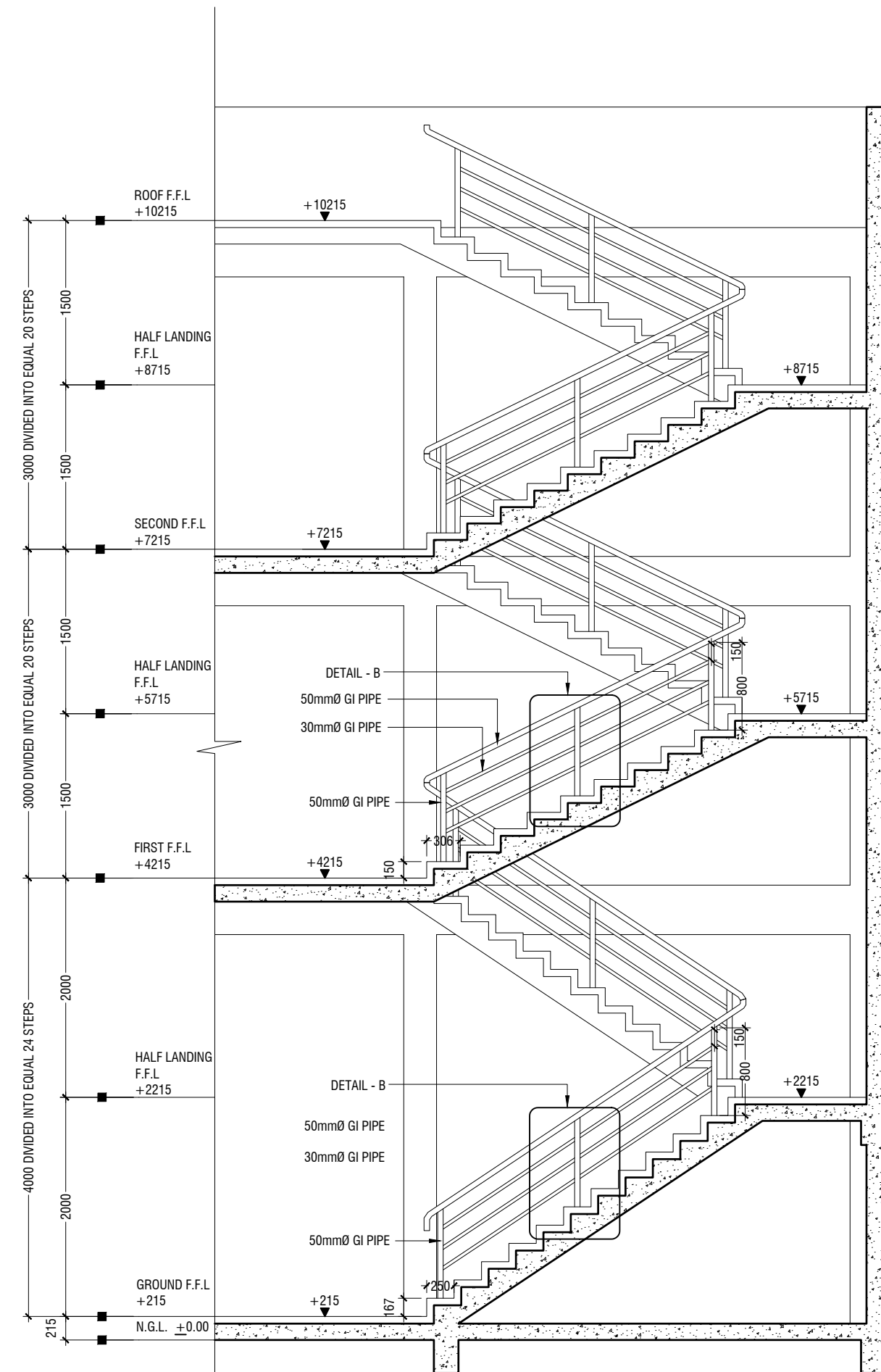
RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Arrensennagu, Male'

Title: SLOPE ROOF DETAIL 02

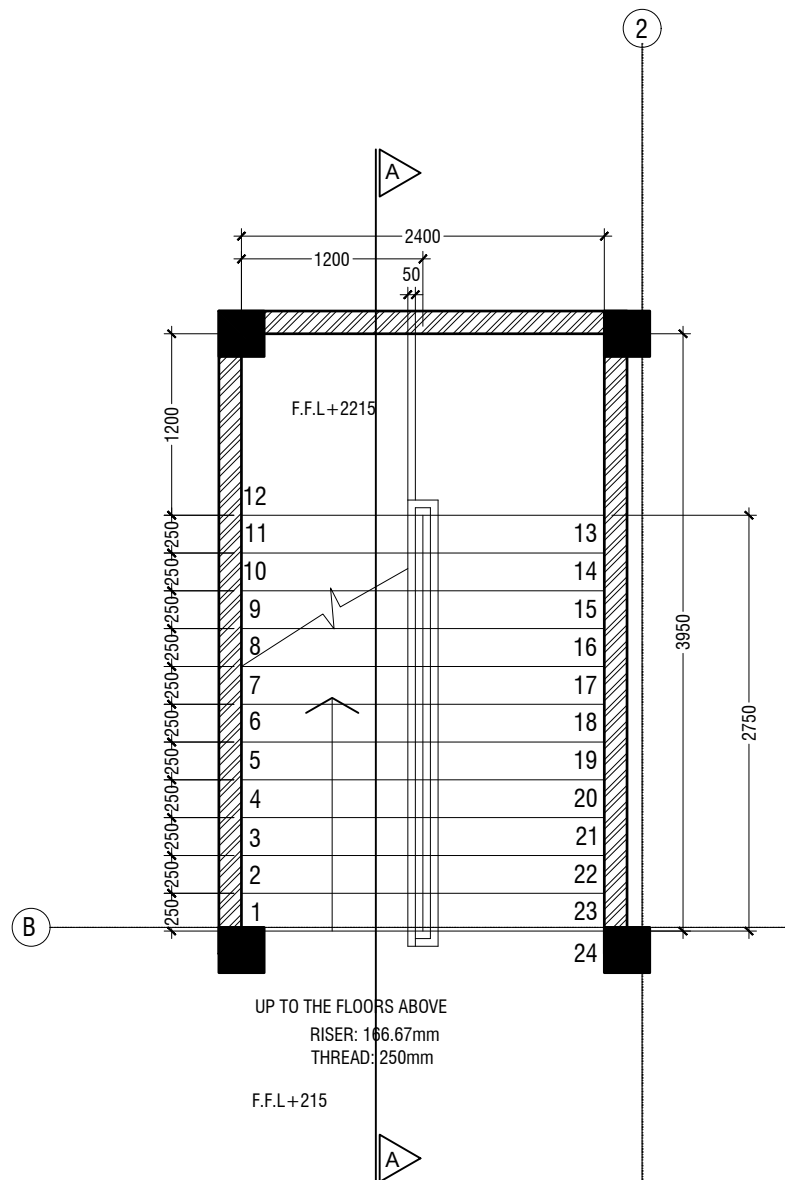
Page: A-21/22

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright



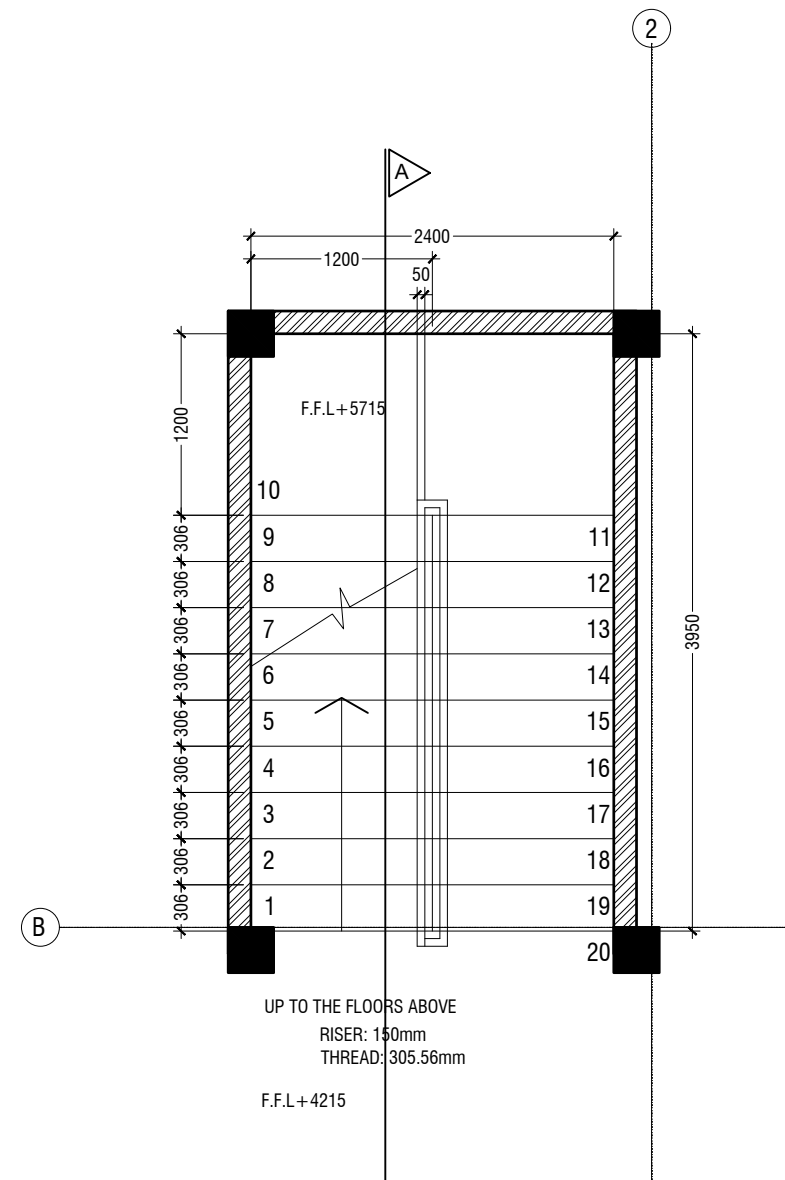
SECTION A - A

SCALE 1:50



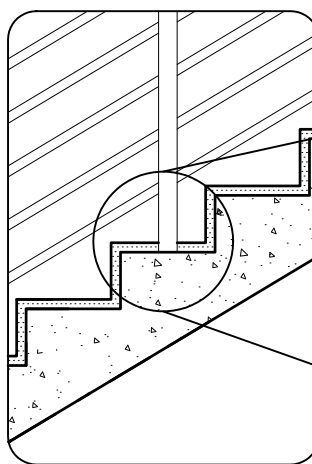
GROUND FLOOR TO FIRST FLOOR
STAIRCASE PLAN

SCALE 1:50



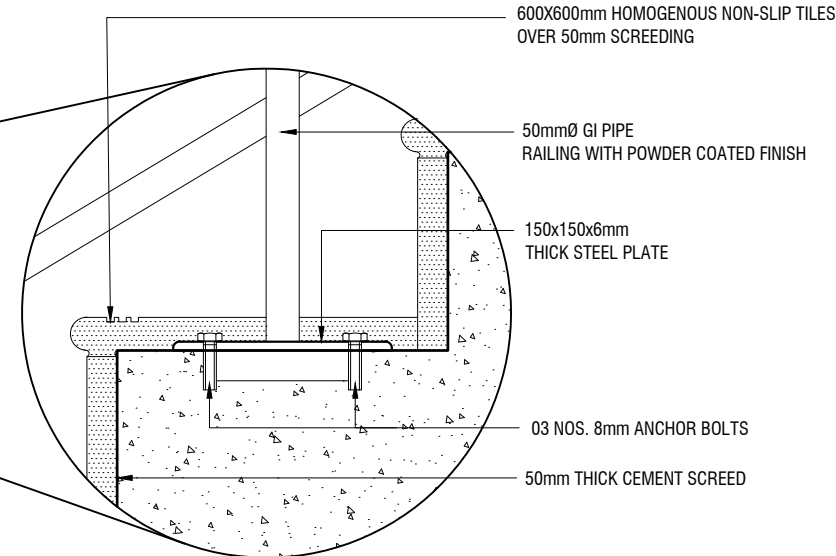
FIRST TO TERRACE FLOOR
TYPICAL STAIRCASE PLAN

SCALE 1:50



DETAIL B

SCALE 1:20



STAIRCASE DETAILS

SCALE 1:20

Ha Kelaa Health Center
Client: Ministry of Health

Project Number: - R2714/MOH - HAK

Date: February 2022

Architect: Mariyam Irasha Shareef

Engineer: Zainal Abidin Ali Rashid

Drawn by: Pradharan Nadimuth

Interior: -



RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776

e: info@riyan.com.mv

w: www.riyan.com.mv

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

Title: STAIRCASE DETAIL

Page: A-22/22

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.

Rev no	By	Date
--	--	--
--	--	--
--	--	--
--	--	--
--	--	--
--	--	--
--	--	--
--	--	--
--	--	--

Ha.Kelaa Health Center

Client: Ministry of Health

Project Number : R21714MOH - HAK

Date: February 2022

Architect : Mariyam Irasha shareef

Engineer : Zainal Abidheen Ali Rasheed

Drawn by : Prabhakaran Nadimuthu

Services : -

Interior : -



RIYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Armeenseemagu, Male'

Title: GENRAL NOTES -01

Page: S-01/12

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

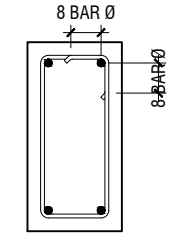
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING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

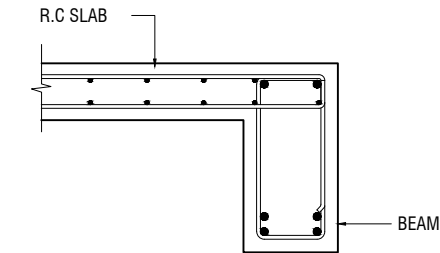
18.0 SPACER BARS

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

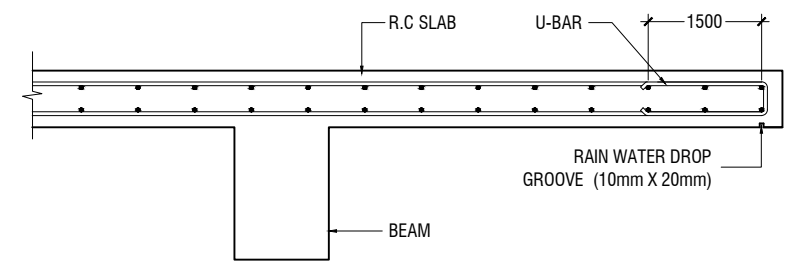


Ø = DIA OF LINK

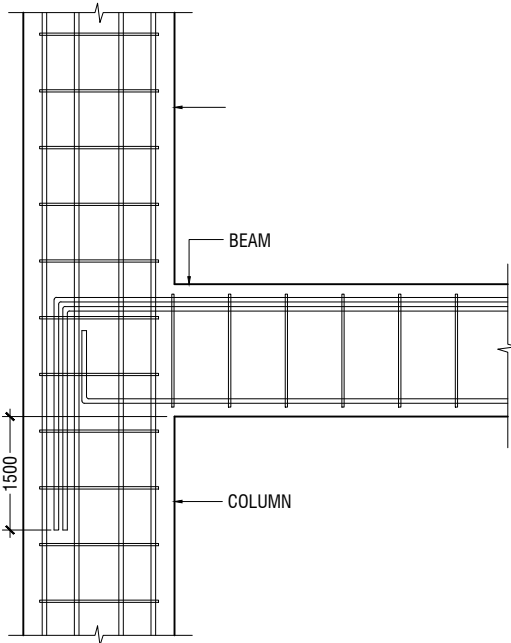
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL



BEAM TO COLUMN CONNECTION

Ha Kelaa Health Center
Client: Ministry of Health
Project Number: - R2T114MOH - HAK
Date: February 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abiddeen Ali Rasheed
Drawn by: Prabhakaran Nadimuthu
Services: -
Interior: -

RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: GENRAL NOTES -02

Page: S-02/12

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright

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.



RIYAN PRIVATE LIMITED

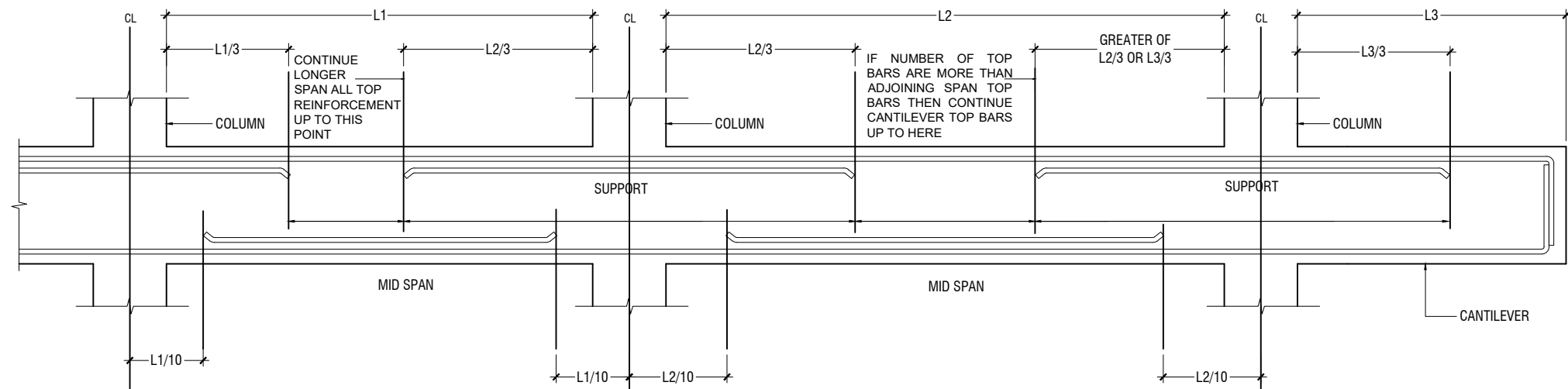
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azumi, Ameerneemagau, Male'

Title: GENRAL NOTES -03

Page: S-03/12

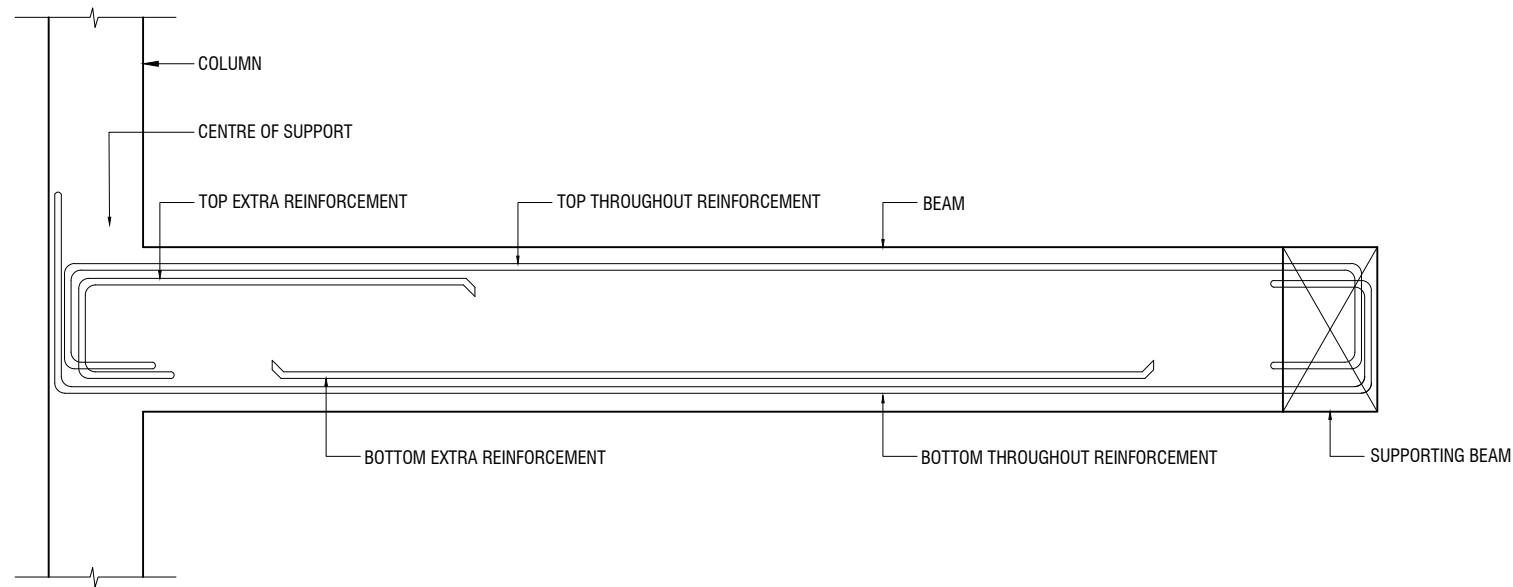
Ha Kelaa Health Center
Client: Ministry of Health
Project Number: - R2114MOH - HAK
Date: February 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidin Ali Rasheed
Drawn by: Prabhakaran Nadimuthu
Services: -
Interior: -

Rev no	By	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

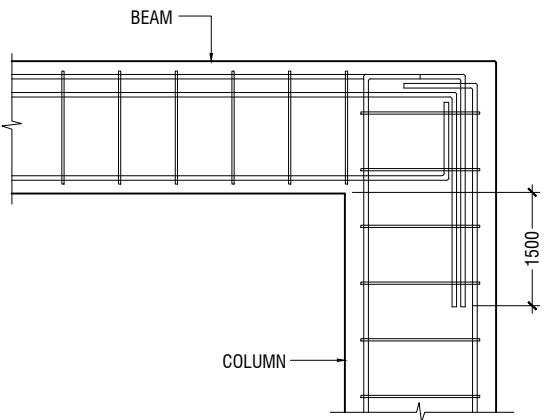


SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

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 REFEREED TO IN RELEVANT BS
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

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: -

Rev no	By	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



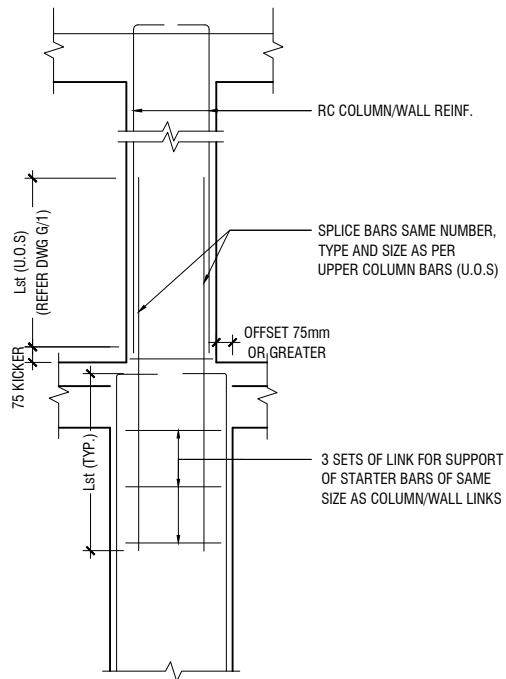
RRYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@rryan.com.mv
w: www.rryan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

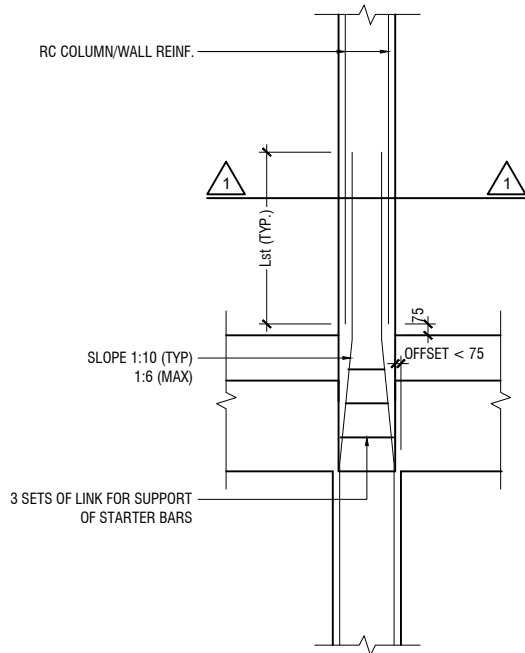
Title: GENRAL NOTES -04

Page: S-04/12

The contents of these drawings remain as a property of Rryan Private Limited. Any use other than those expressly stated is a violation of this copyright

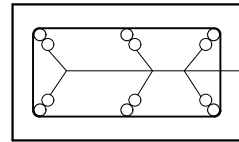


A) FOR COLUMN OFFSET > 75mm
TO BE VERIFIED BY THE CONSULTING ENGINEER



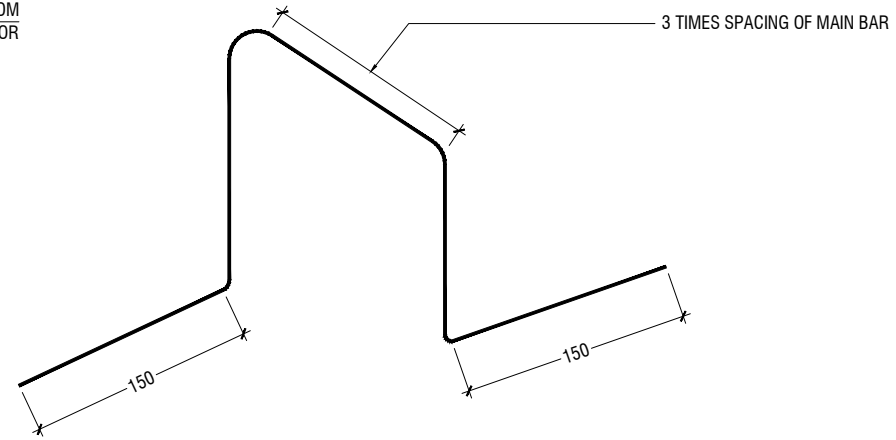
B) FOR COLUMN OFFSET < 75mm

COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL

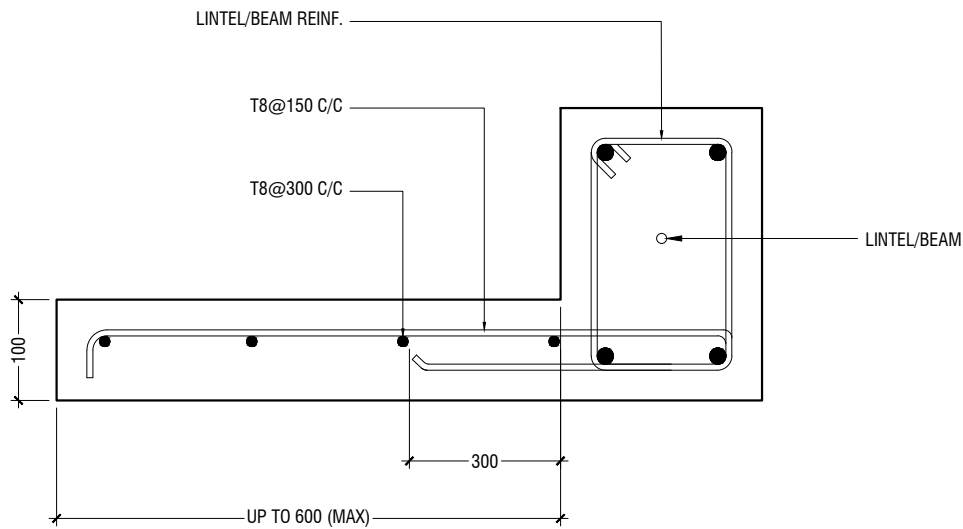


SECTION-1-1

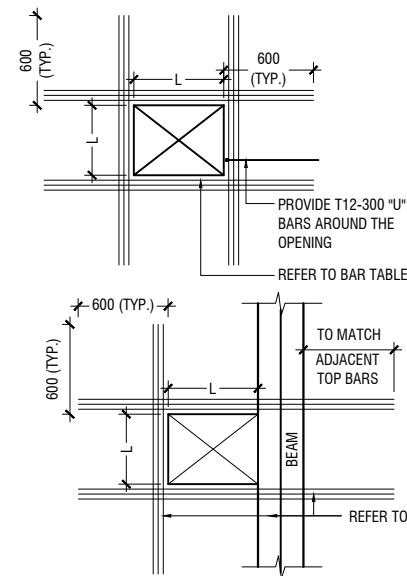
REINF. FROM
LOWER FLOOR



TYPICAL CHAIR DETAIL



TYPICAL CANTILEVER DETAILS



FLOOR OPENING (L)	ADD BARS
LESS THAN 250	3T12 T & B
L = > 250 < 500	3T16 T & B
L = ≥ 500 < 1000	3T16 T & B

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: - R2114MCH - HAK
Date: February 2022
Architect: Mariyam Irasha shareef
Engineer: Zainal Abidheen Ali Rasheed
Drawn by: Prabhakaran Nadimuthu
Services: -
Interior: -

Rev no	By	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: GENRAL NOTES -05

Page: S-05/12

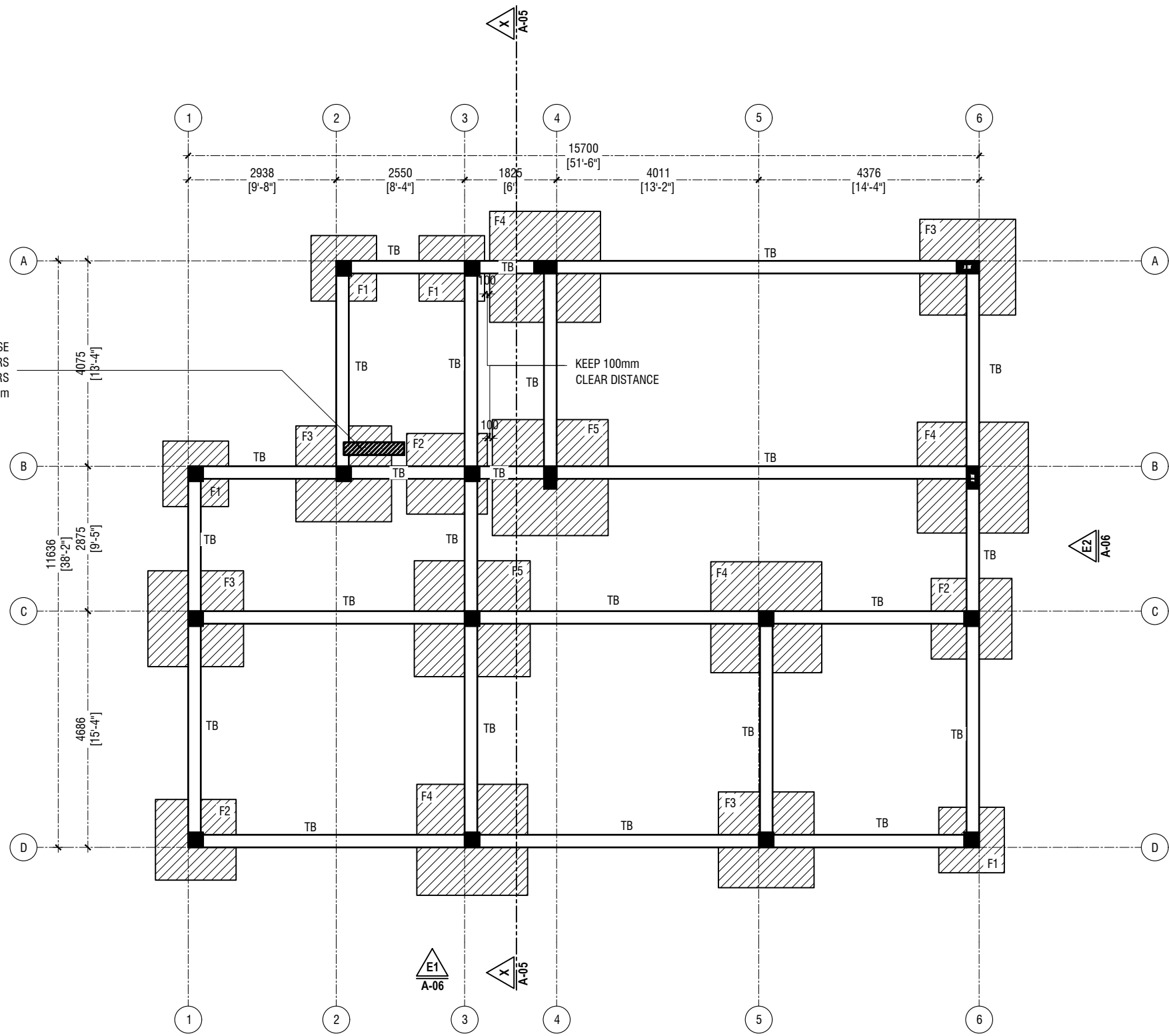
The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright

FOUNDATION PLAN

SCALE 1:100



250mm THICK RC WALL STARTER FOR STAIRCASE
T10@100mm VERTICAL BARS
T10@200mm HORIZONTAL BARS
COVER: 50mm



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: -

Rev no	By	Date
-	-	-
-	-	-
-	-	-
-	-	-

RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameerneemagu, Male'

Title: FOUNDATION PLAN

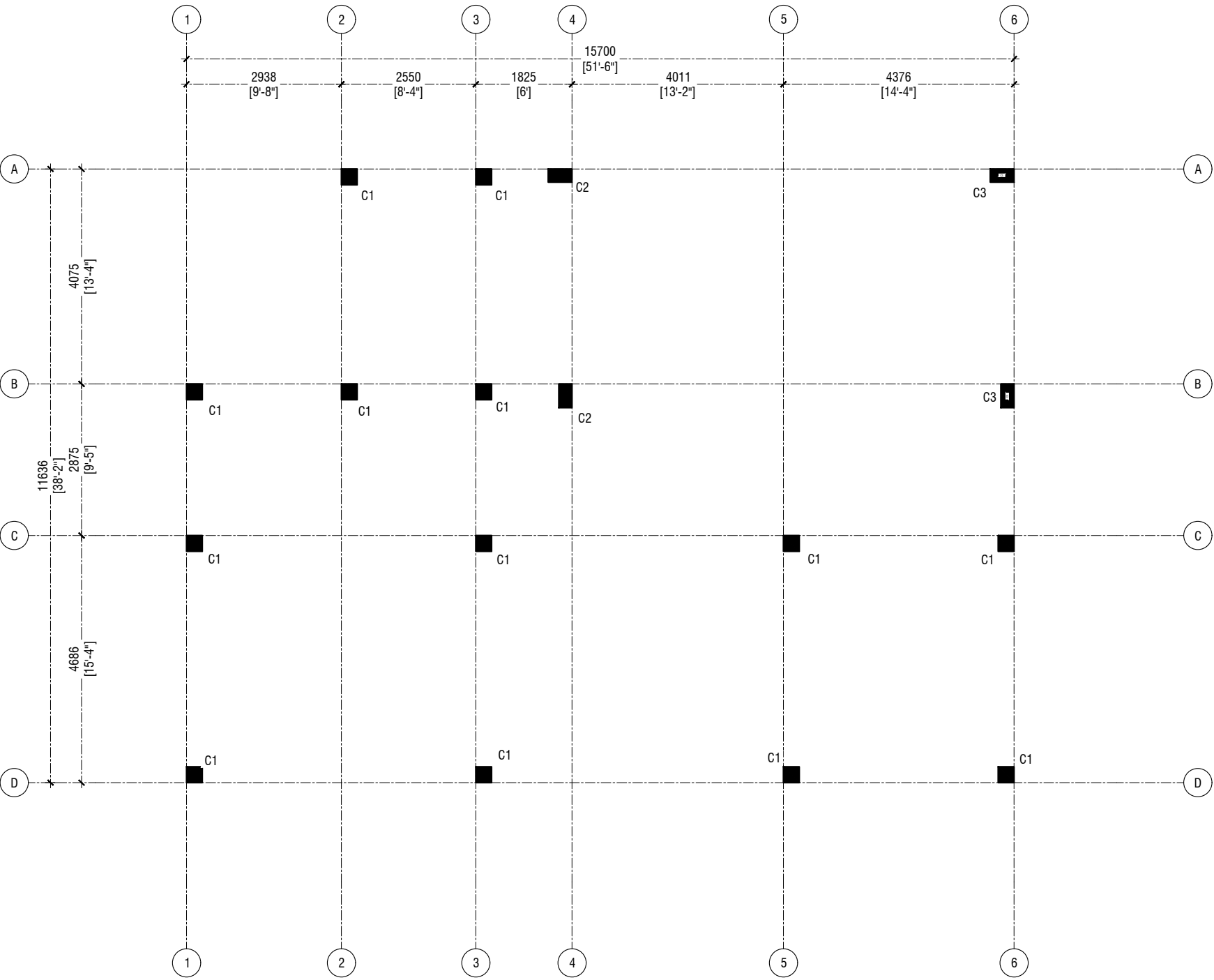
Page: S-06/12

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright

GROUND FLOOR TO 2nd FLOOR COLUMN PLAN

SCALE 1:100

0 0.5 1 2 3 4 5



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: -

Rev no	By	Date
--	--	--
--	--	--
--	--	--
--	--	--

RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azumi, Ameerneemagau, Male'

Title: GROUND FLOOR TO 2nd
FLOOR COLUMN PLAN

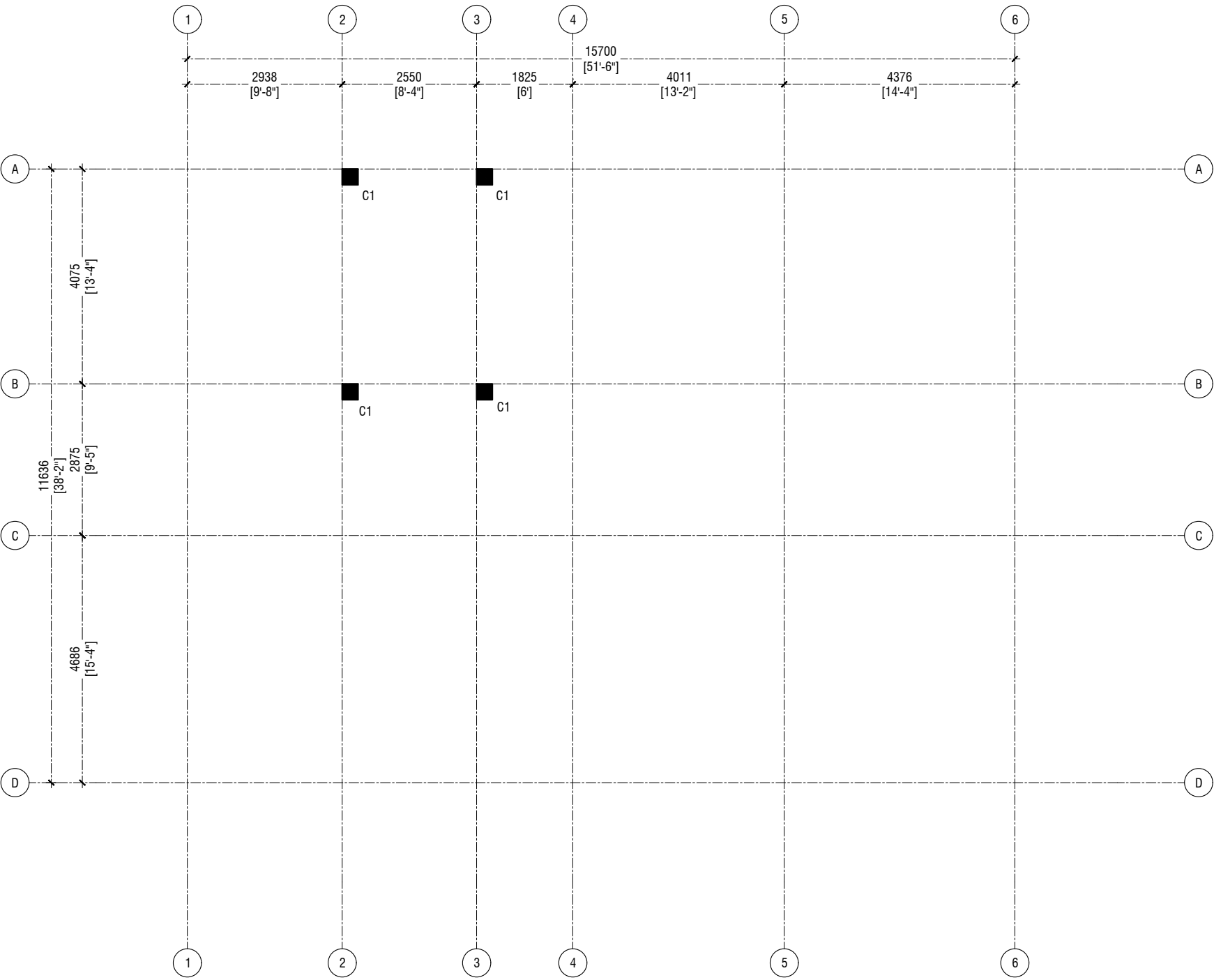
Page: S-07/12

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright

TERRACE FLOOR COLUMN PLAN

SCALE 1:100

0 0.5 1 2 3 4 5



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: -

Rev no	By	Date
--		
--		
--		
--		

RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azumi, Ameerneemagu, Male'

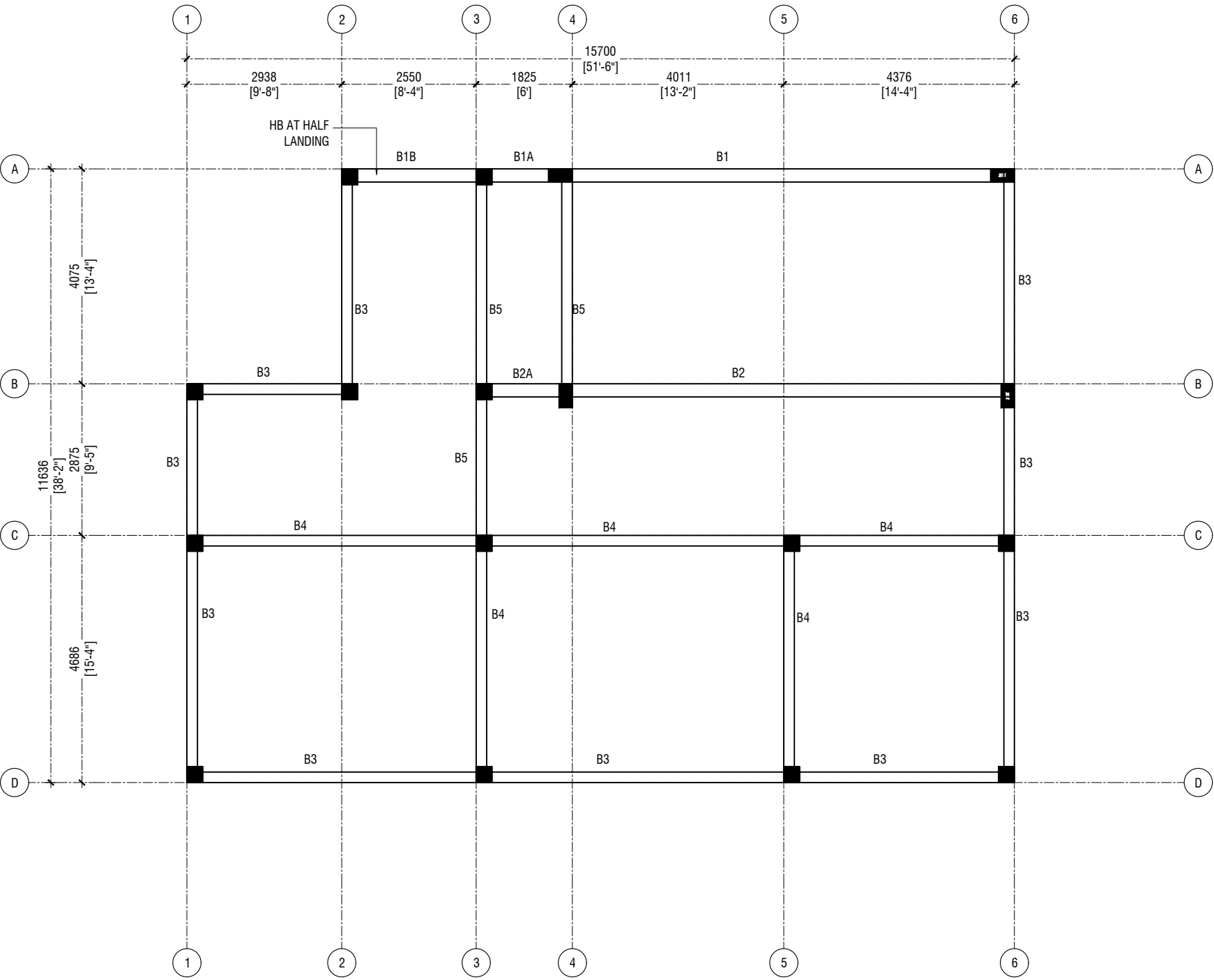
Title: TERRACE FLOOR
COLUMN PLAN

Page: S-08/12

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright

FIRST FLOOR TO TERRACE FLOOR BEAM 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 Abidheen Ali Rasheed
Drawn by: Prabhakaran Nadimuthu
Services: -
Interior: -

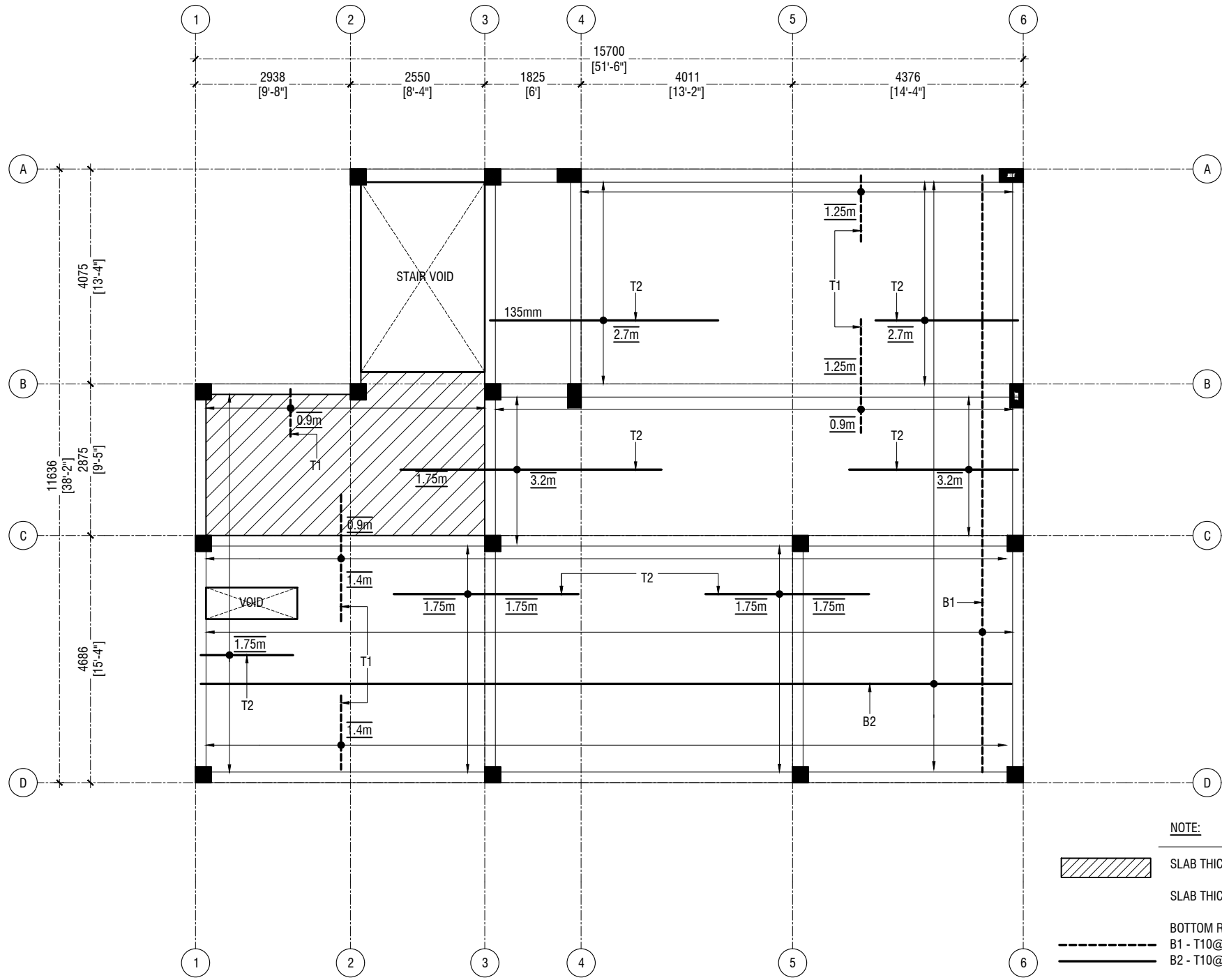
Rev no	By	Date
--		
--		
--		
--		

RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azumi, Ameerneemagau, Male'

Title: FIRST FLOOR TO TERRACE
FLOOR BEAM PLAN

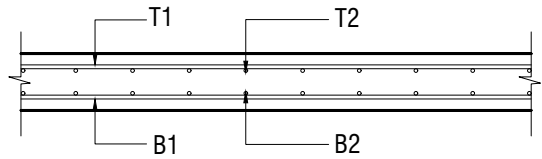
Page: S-09/12

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright



**FIRST FLOOR TO TERRACE FLOOR SLAB
REINFORCEMENT PLAN**

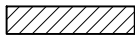
SCALE 1:100
0 0.5 1 2 3 4 5



**TYPICAL BOTTOM AND TOP
REINFORCEMENT LAYOUT**

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1

NOTE:



SLAB THICKNESS: 150mm

SLAB THICKNESS: 135mm



BOTTOM REINFORCEMENT:
B1 - T10@150C/C B/W (AS SHOWN)
B2 - T10@150C/C B/W (AS SHOWN)



TOP REINFORCEMENT:
T1 - T10@150C/C B/W (AS SHOWN)
T2 - T10@150C/C B/W (AS SHOWN)
TOP DISTRIBUTION BARS: T10@300C/C (NOT SHOWN)
REINFORCEMENT DISCONTINUED OVER VOIDS
COVER: 30mm (T&B)



Ha Kelaa Health Center
Client: Ministry of Health
Project Number: - R2T114MOH - HAK
Date: February 2022
Architect: Mariyam Irasha Shareef
Engineer: Zainal Abidheen Ali Rasheed
Drawn by: Prabhakaran Nadimuthu
Services: -
Interior: -

Rev no	By	Date
-	-	-
-	-	-
-	-	-
-	-	-

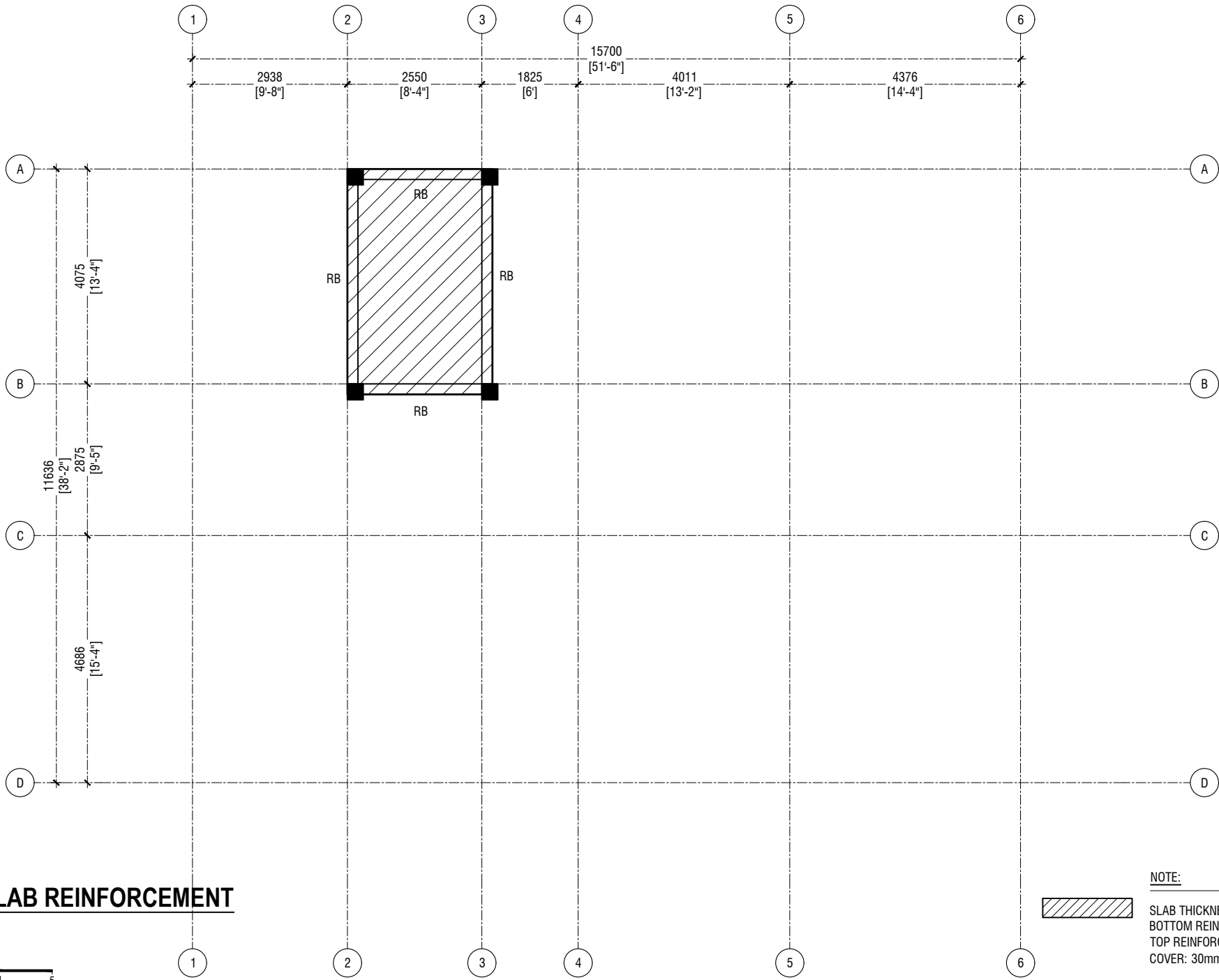
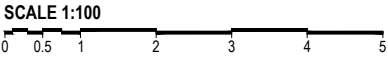

RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azumi, Ameerneemagu, Male'

Title: FIRST FLOOR TO TERRACE
FLOOR SLAB PLAN

Page: S-10/12

The contents of these drawings remain as a property of Riyon Private Limited. Any use other than those expressly stated is a violation of this copyright

ROOF BEAM AND SLAB REINFORCEMENT
PLAN



NOTE:

SLAB THICKNESS:	135mm
BOTTOM REINFORCEMENT:	T10@175C/C B/W (NOT SHOWN)
TOP REINFORCEMENT:	T10@175C/C B/W (NOT SHOWN)
COVER: 30mm (T&B)	



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

Rev no	By	Date
--		
--		
--		
--		



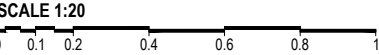
RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azumi, Ameerneemagu, Male'

Title: ROOF BEAM AND SLAB
REINFORCEMENT PLAN

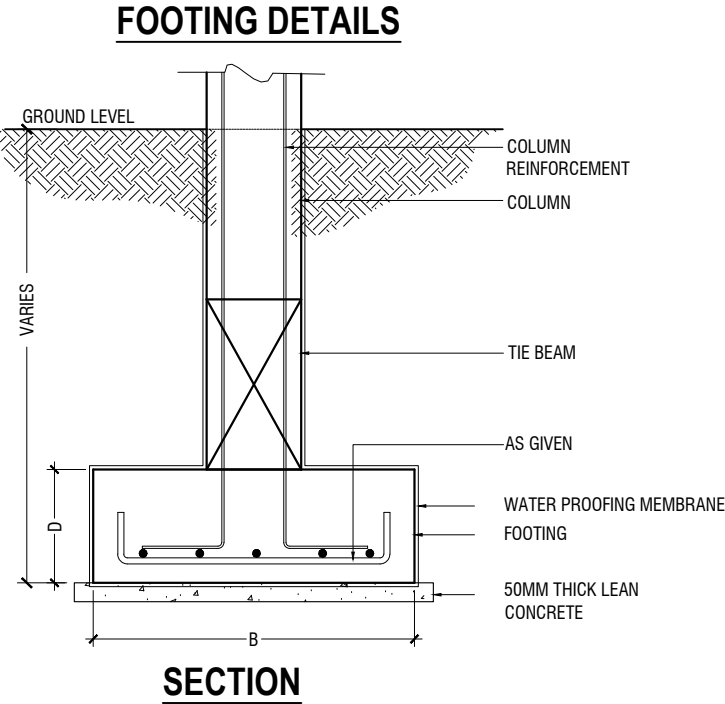
	DIMENSION (L x B x D)	REINFORCEMENT	FOUNDATION DEPTH
F1	1300 x 1300 x 300	T12@ 150 C/C BW (B)	1200mm
F2	1600 x 1600 x 300	T12@ 150 C/C BW (B)	1200mm
F3	1900 x 1900 x 300	T12@ 150 C/C BW (B)	1200mm
F4	2200 x 2200 x 350	T16@ 150 C/C BW (B)	1250mm
F5	2300 x 2300 x 350	T16@ 150 C/C BW (B)	1250mm

FOOTING DETAILS

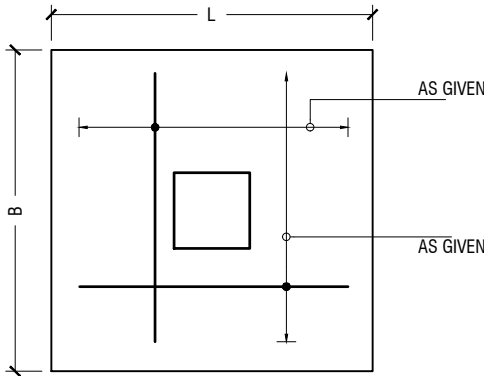


NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

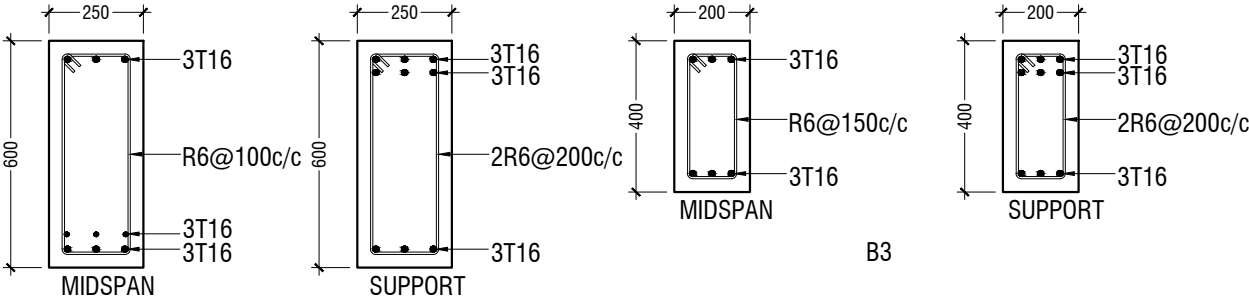
CONCRETE GRADE = M25
MIX RATIO = 1:2:3 (USE MASTER POZZOLITH 55R OR EQUIVELENT)
ASSUMED BEARING CAPACITY = 150KPa
GROUND SLAB 150MM THICK T10@150 C/C BW
(SINGLE LAYER) UNLESS MENTIONED OTHERWISE



SECTION

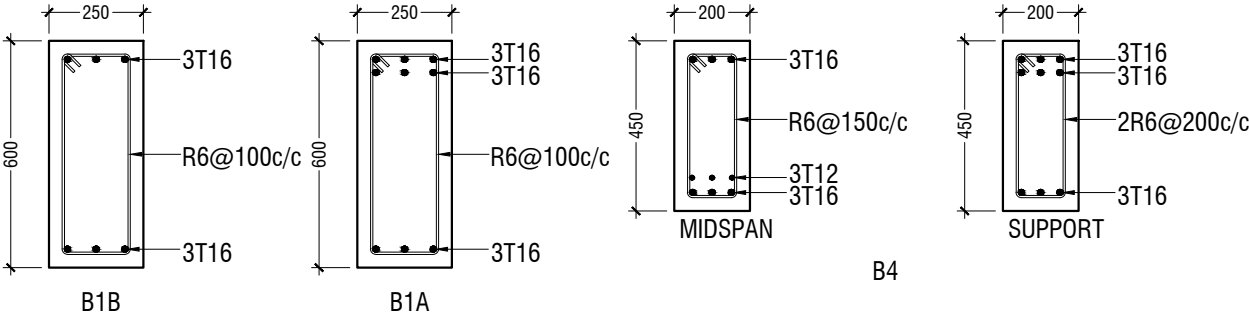


PLAN



B1

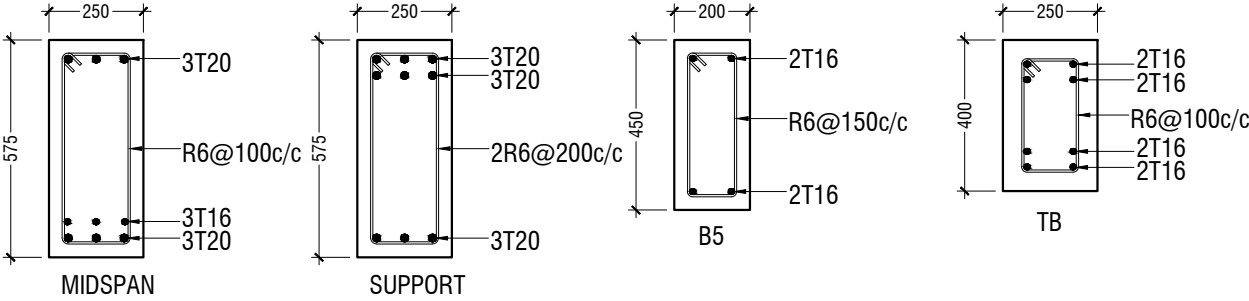
B3



B1B

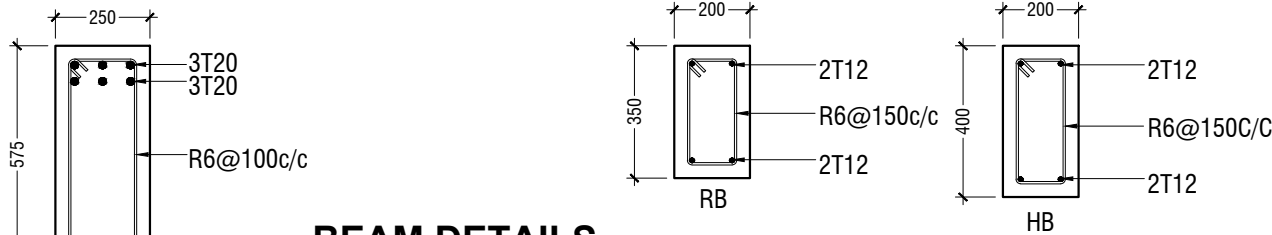
B1A

B4



B2

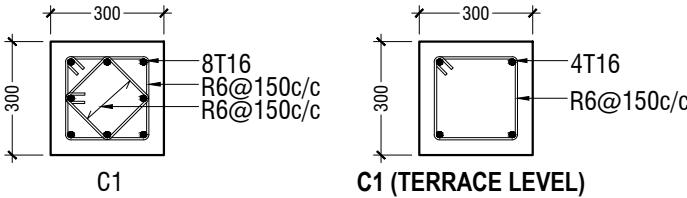
TB



B2A

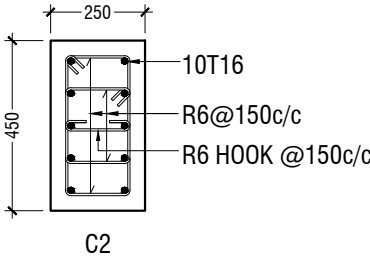
RB

HB

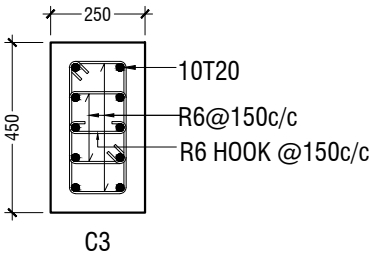


C1

C1 (TERRACE LEVEL)

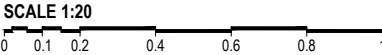


C2

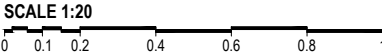


C3

COLUMN DETAILS



STRUCTURAL DETAILS



Ha.Kelaa Health Center

Client: Ministry of Health

Project Number:- R2714M0H - HAK

Date: February 2022

Architect: Mariyam Irasha Shareef

Engineer: Zainal Abidheen Ali Rasheed

Drawn by: Prabhakaran Nadimuthu

Services:-



RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Title: FIRST FLOOR TO TERRACE
FLOOR BEAM PLAN

Page: S-12/12

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright