

Proposed Multipurpose Hall Building at
GA.Atoll School (Ga. Kolamaafushi)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Education



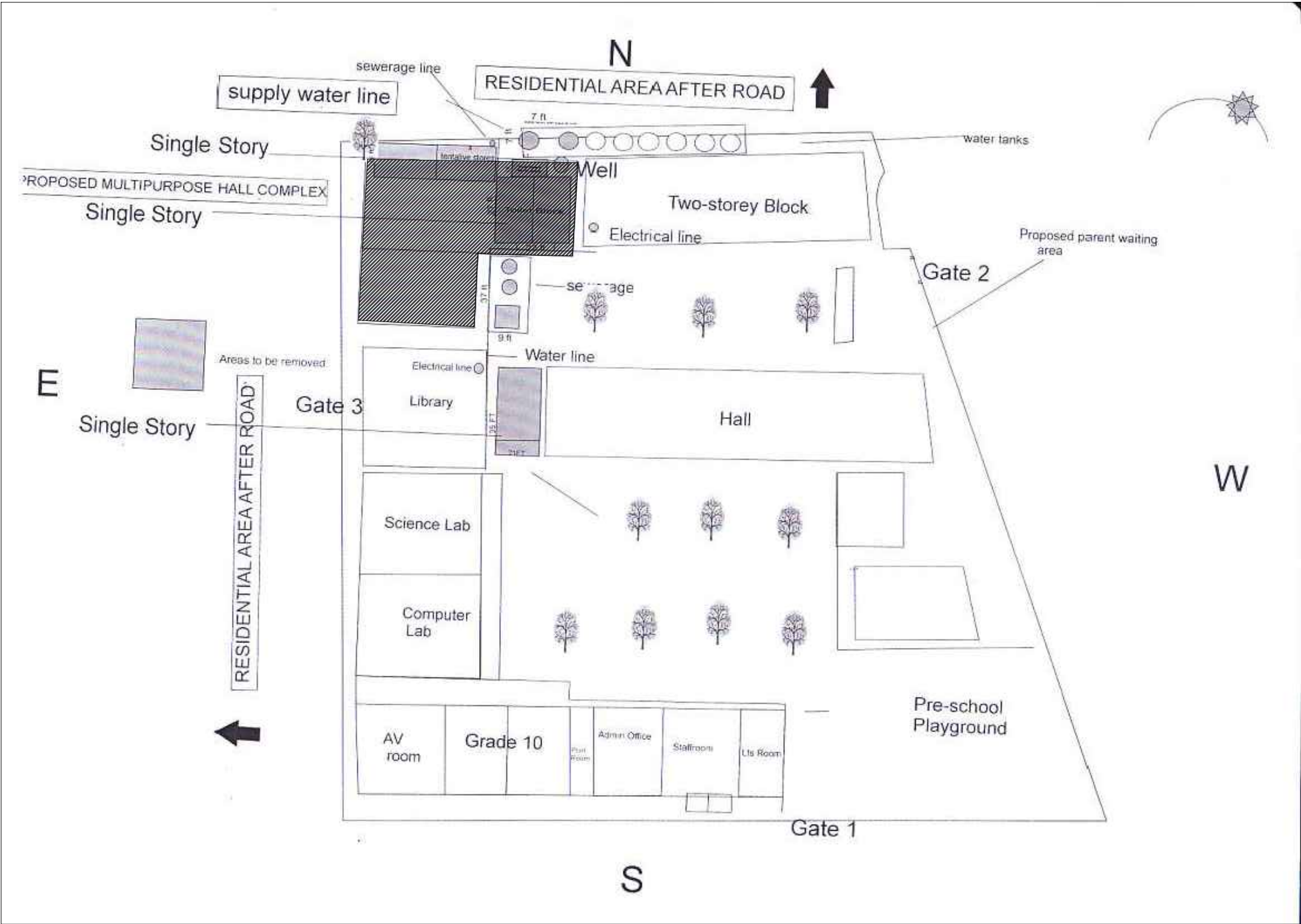
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NOTE:

PROPOSED BUILDING LOCATION

DEMOLITION OF EXISTING TREE, OLD TOILET BLOCK, OLD STORAGE BLOCK, TENTATIVE STORAGE FACILITY AND OLD SEWERAGE TOPS AS PER THE SCHOOL (REFER TO THE SITE PLAN)

OTHERS: (REQUEST FROM SCHOOL)

WATER TANKS WITH BASES WHICH ARE UNUSED CURRENTLY, NEEDS TO BE REMOVED

CURRENT SEWERAGE AND WELL NEEDS TO BE RELOCATED TO EASTERN SIDE (REFER THE SITE CHECKLIST FORM)

SITE PLAN

NOT TO SCALE

Ga. Kolamaafushi School Hall
Client: Ministry of Education

Project Number	Rev no	Date
R/2020/006
Date: May 2021
Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muthalib Waleed
Drawn by : Mohamed Yasbiq Ismail
Services : Jose Julius Alzate & Jeffrey Caballo
Interior :



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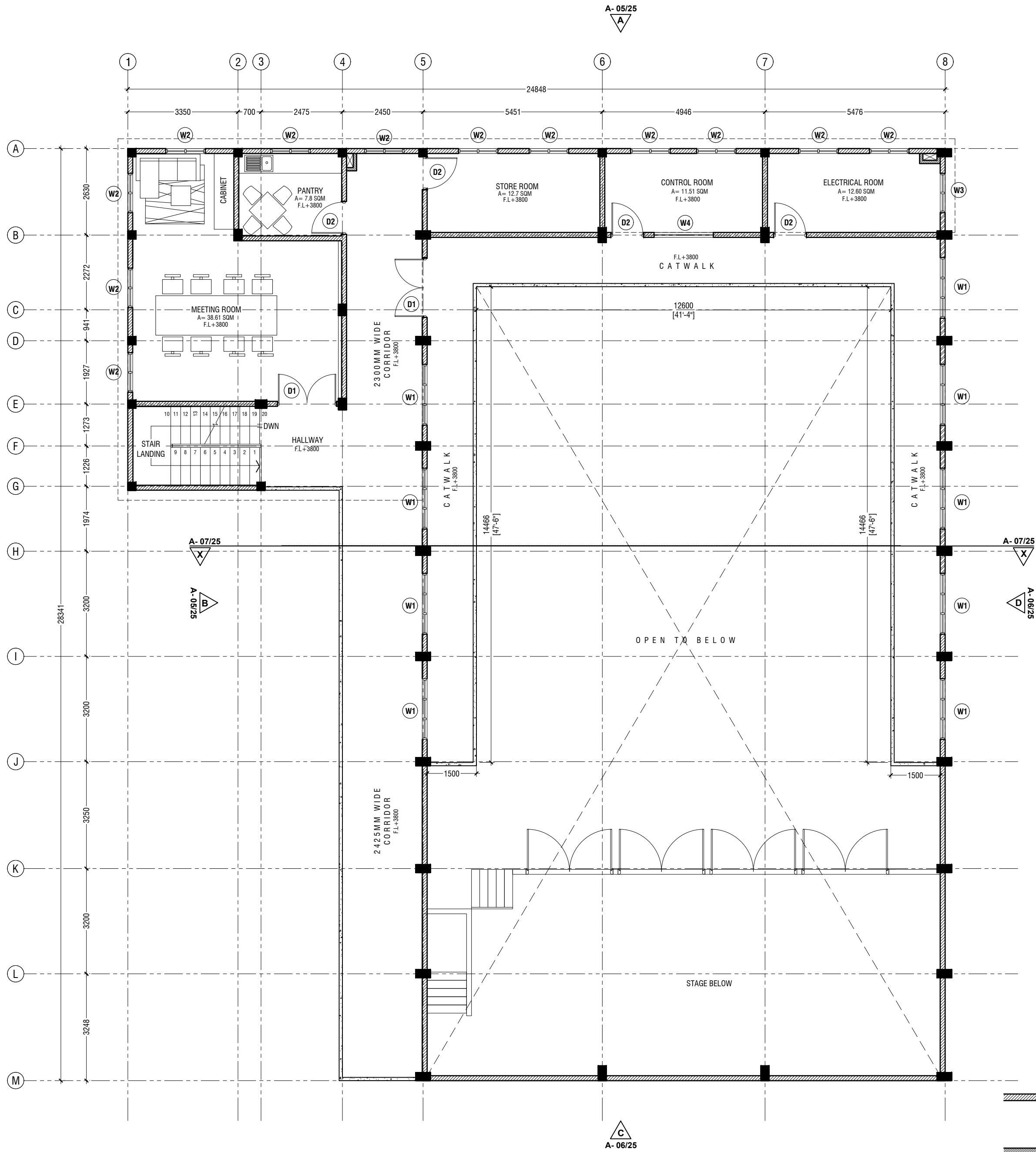
Title: Site Plan

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FIRST FLOOR PLAN

SCALE 1:100



NOTES:

- 150mm THICK SOLID BLOCK MASONARY WALL WITH EXTERIOR 20mm PLASTERING & INTERIOR 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE. GROUND SMOOTH IN MATTE EMULSION SELECTED PAINT FINISH UP TO BEAM/SLAB
- 100mm THICK SOLID BLOCK MASONARY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION SELECTED PAINT FINISH UPTO BEAM/SLAB
- 100mm THICK RC WALL WITH WITH EXTERIOR 20mm PLASTERING & INTERIOR 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION SELECTED PAINT

Ga Kolamaafushi School Hall
Client: Ministry of Education

Rev no	Date
1	2022/06
2	2022/06
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98	2022/06
99	2022/06
100	2022/06

Project Number: RV/2022/006
Date: May/2022
Architect: Mainiyam Isha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Mohamed Youssef Elmal
Checked by: Mohamed Youssef Elmal
Interior: -

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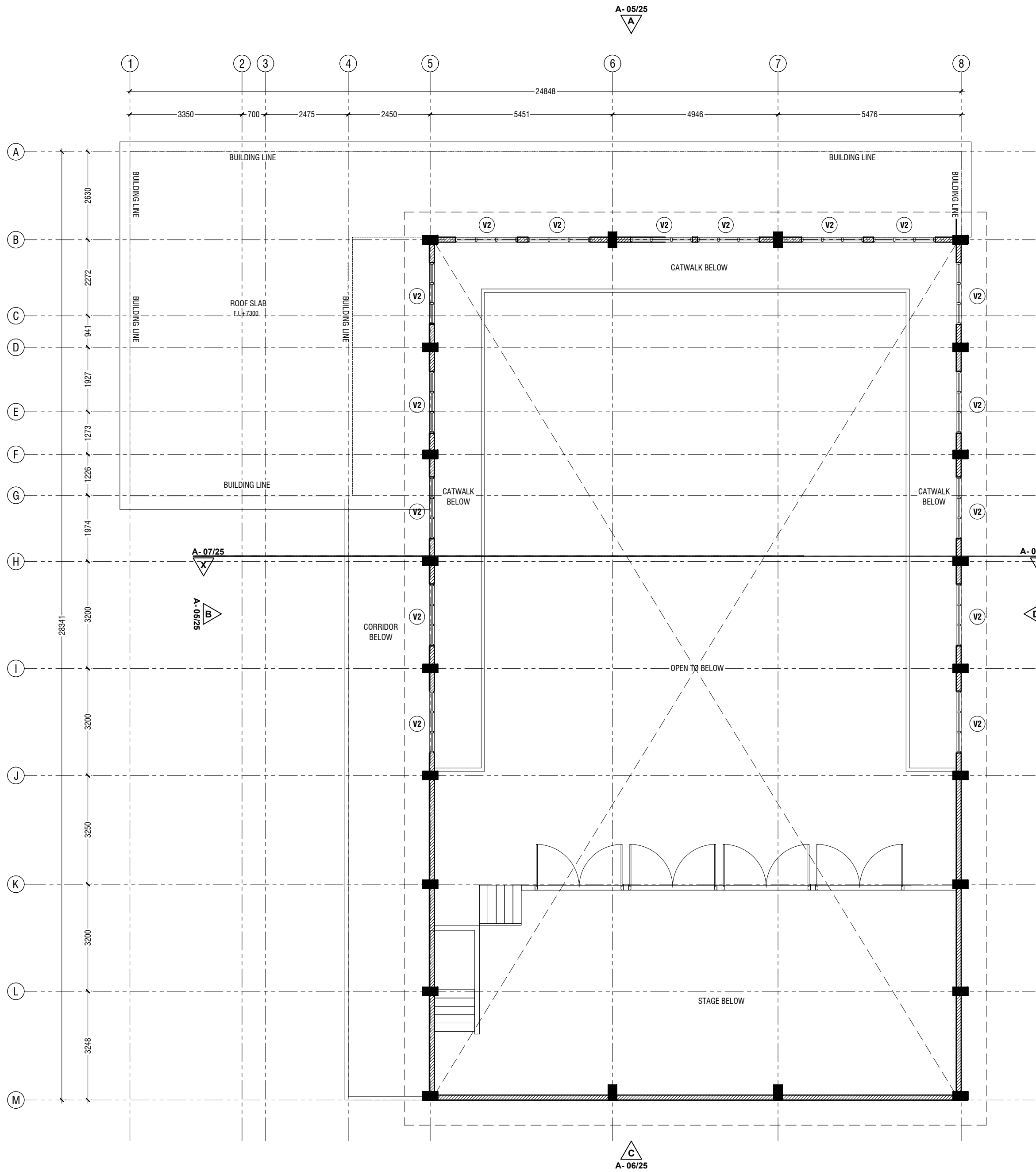
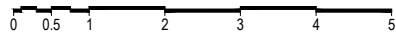
Title: First Floor Plan

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ROOF PLAN - 1

SCALE 1:100



NOTE

ROOF SLAB THICKNESS - 140mm

BOTTOM REINFORCEMENT - T10@150 C/C BW (NOT SHOWN, UNLESS STATED)
TOP REINFORCEMENT - (T10@150 C/C, UNLESS STATED)
REINFORCEMENT HALF

NOTES:

- 150mm THICK SOLID BLOCK MASONARY WALL WITH EXTERIOR 20mm PLASTERING & INTERIOR 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION SELECTED PAINT FINISH UP TO BEAM/SLAB
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Ga Kolamaafushi School Hall
Client: Ministry of Education

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9	2022/06
10	2022/06



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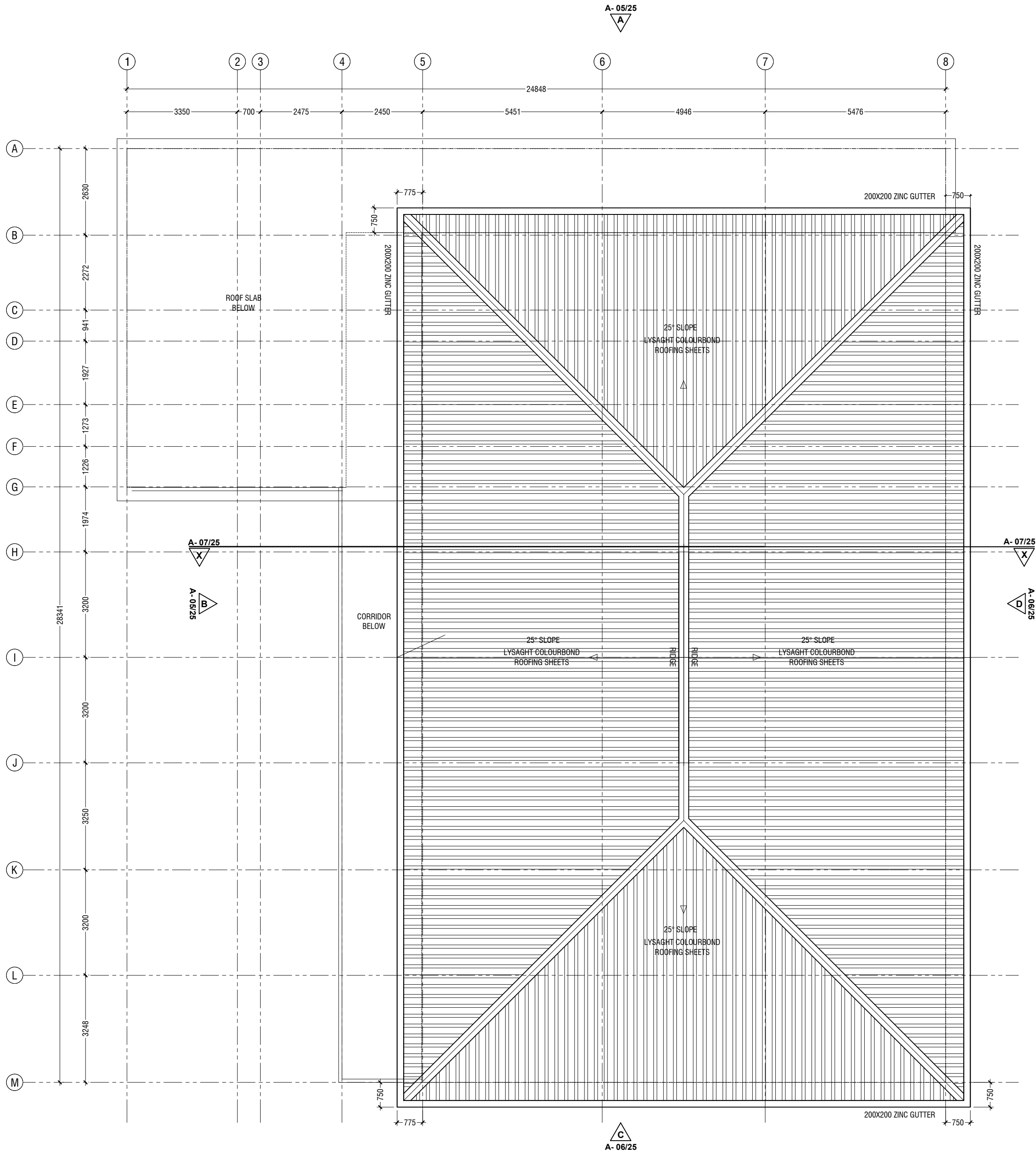
Title: Roof Plan - 1

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ROOF PLAN - 2

SCALE 1:100



NOTE

ROOF SLOPE : 25 DEGREES
MATERIAL : LYSAGHT ROOFING SHEET

Ga Kolamaafushi School Hall
Client: Ministry of Education

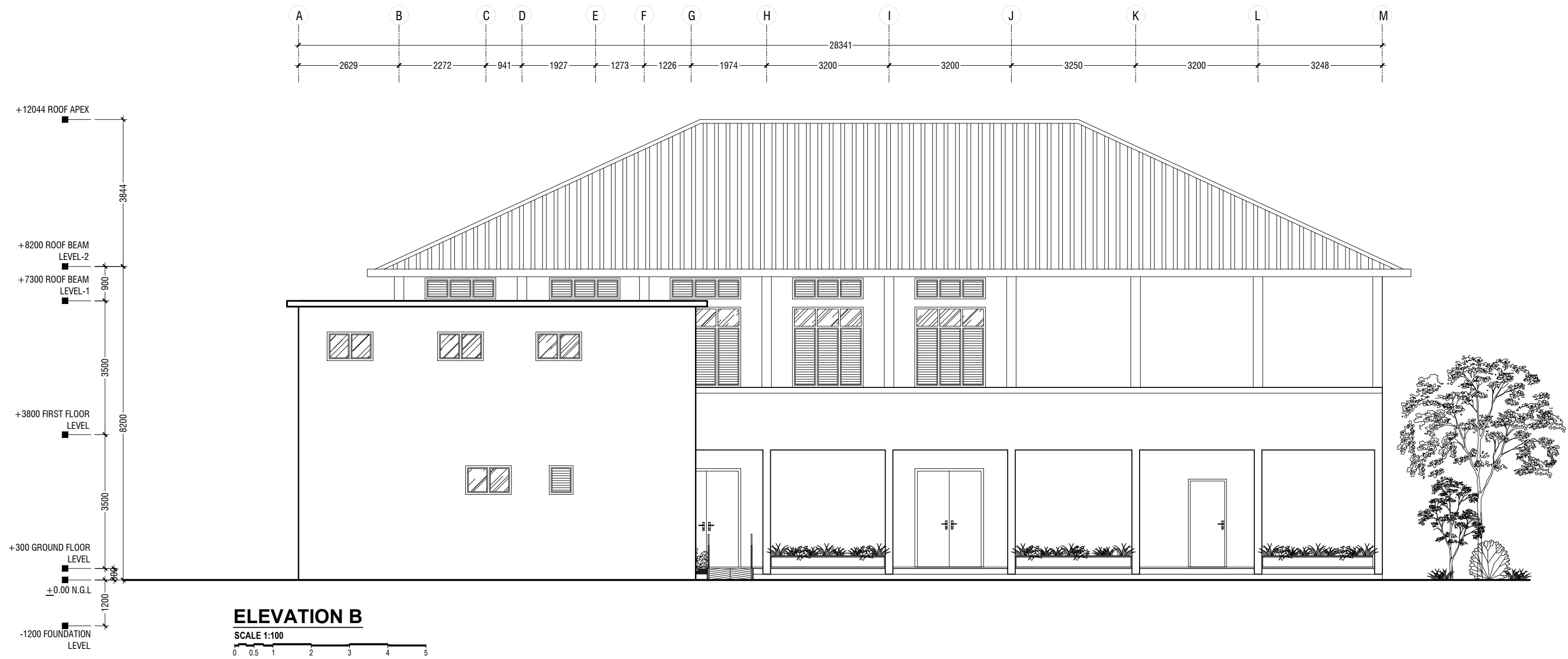
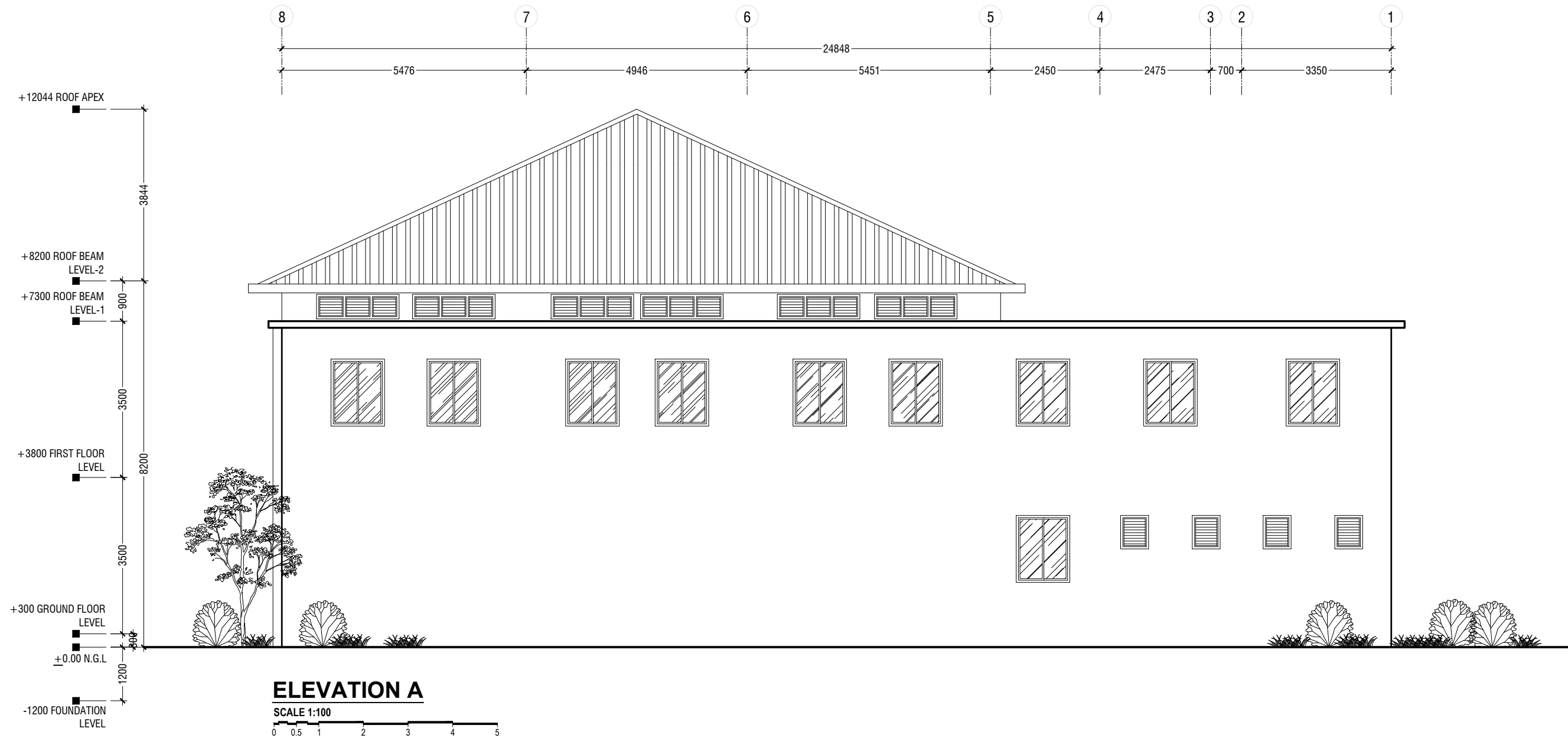
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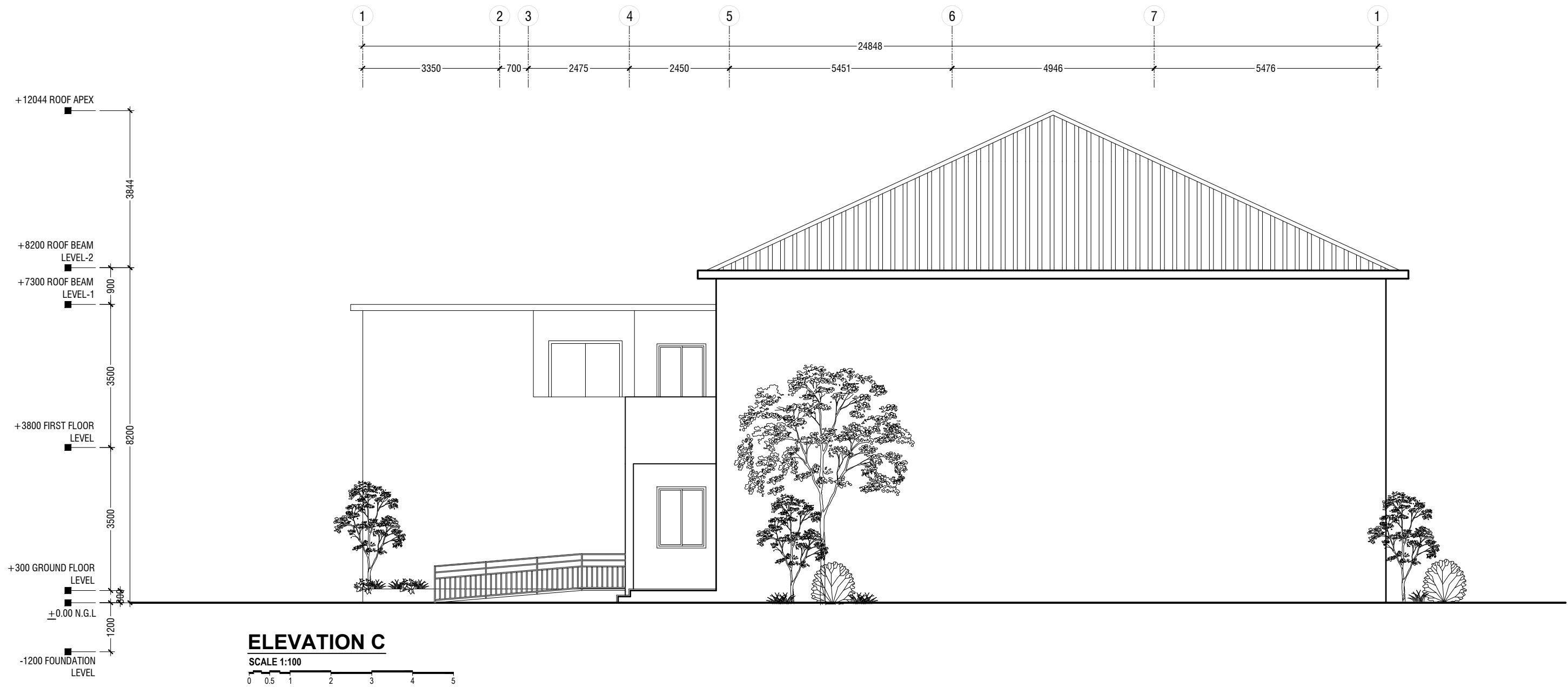
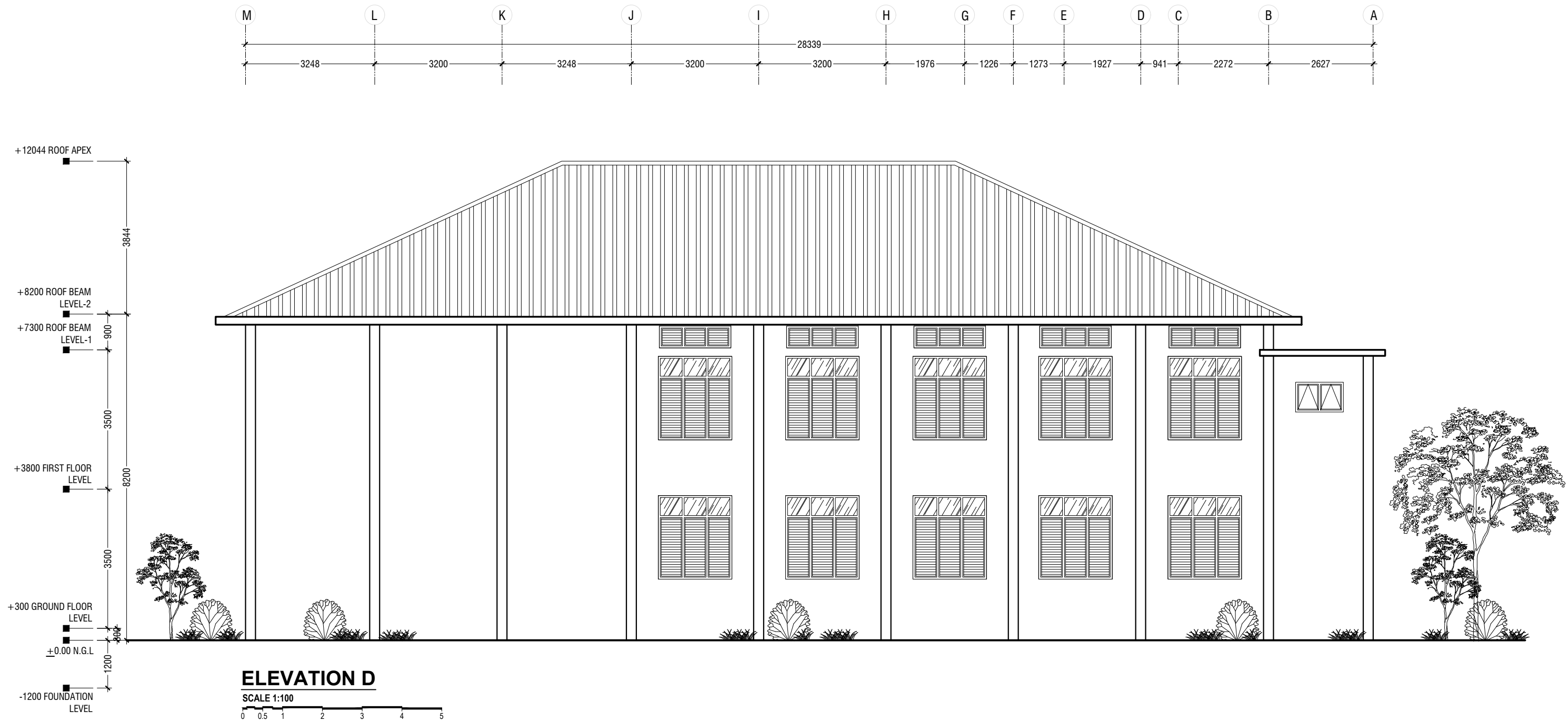
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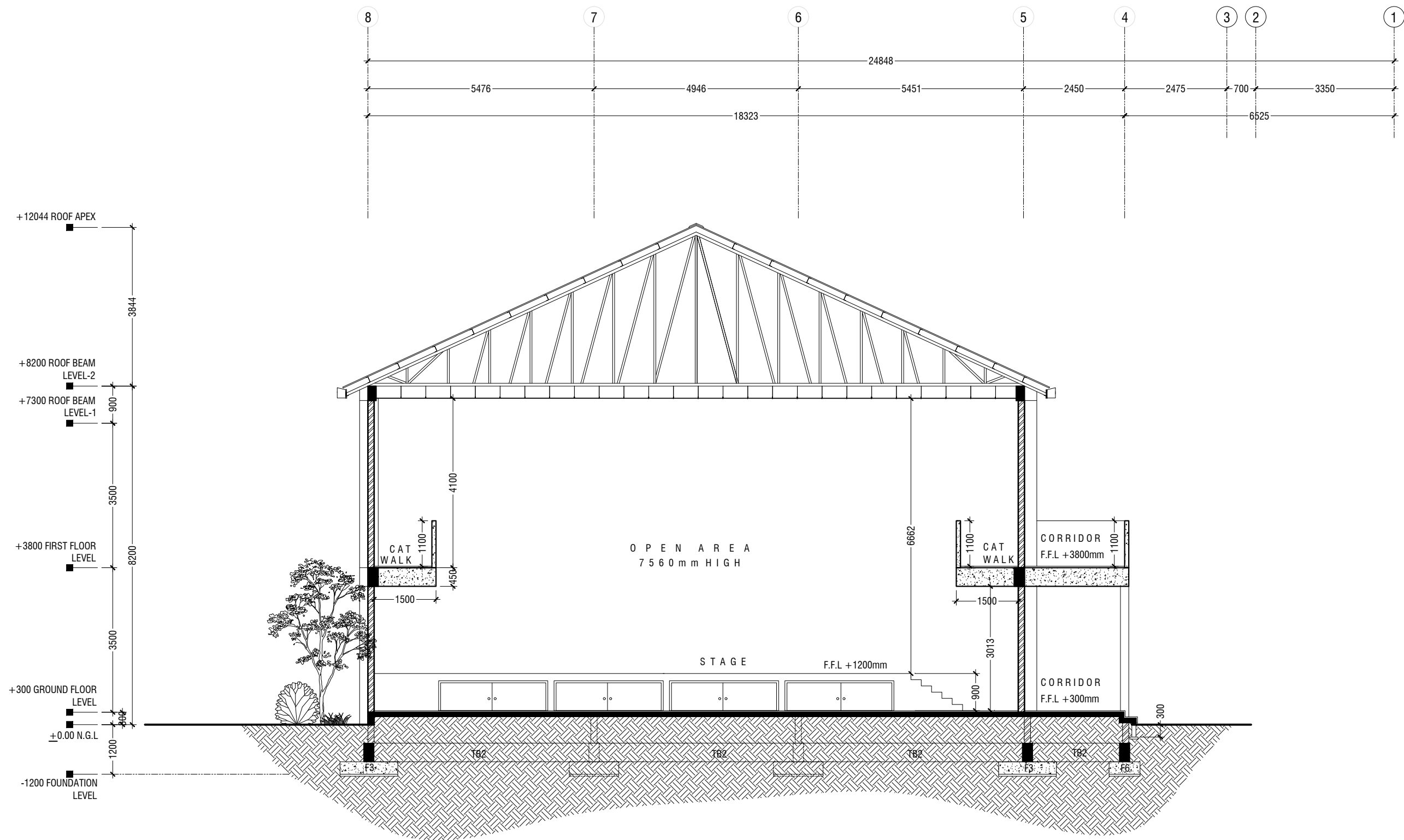
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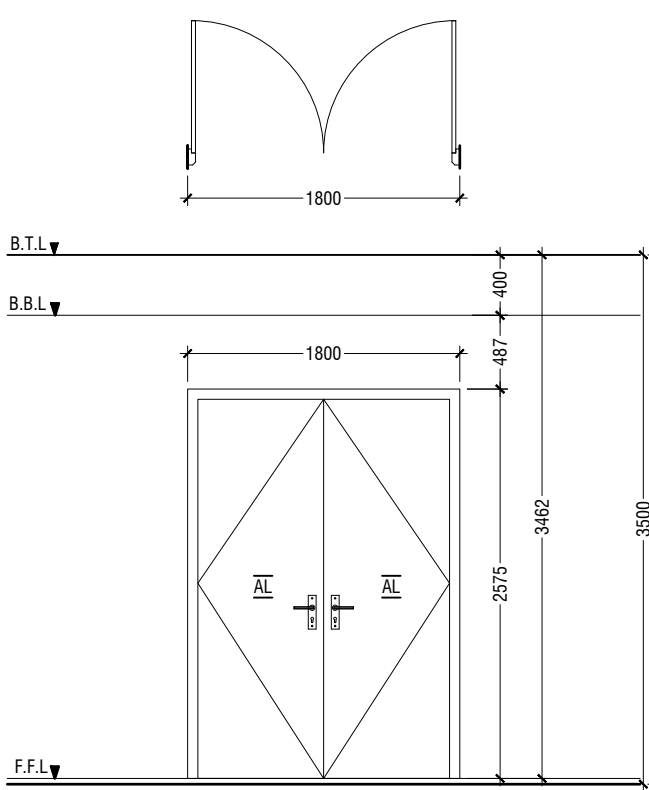
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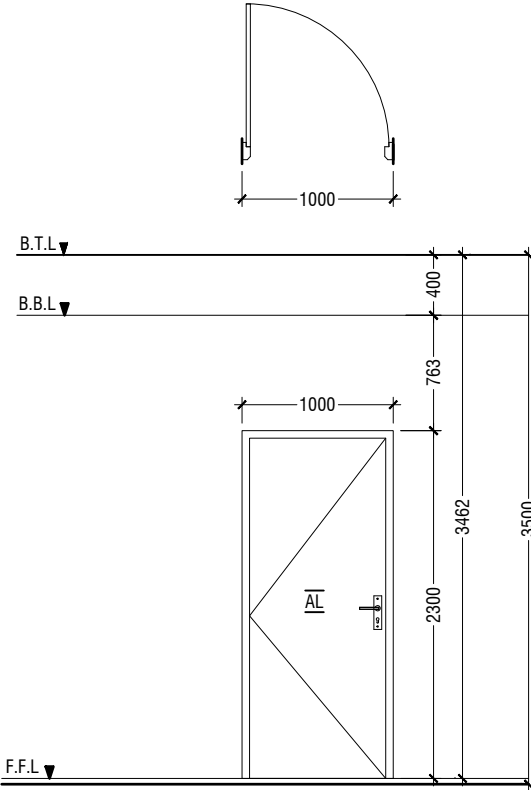




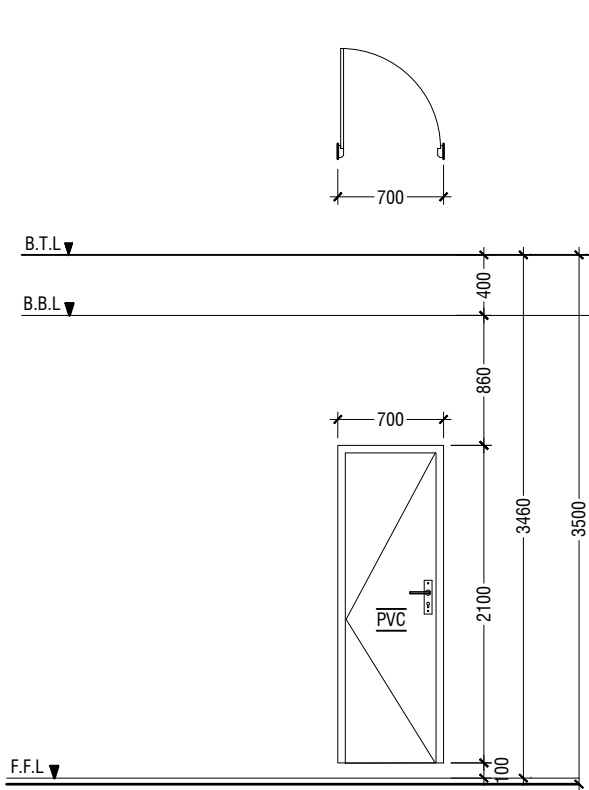




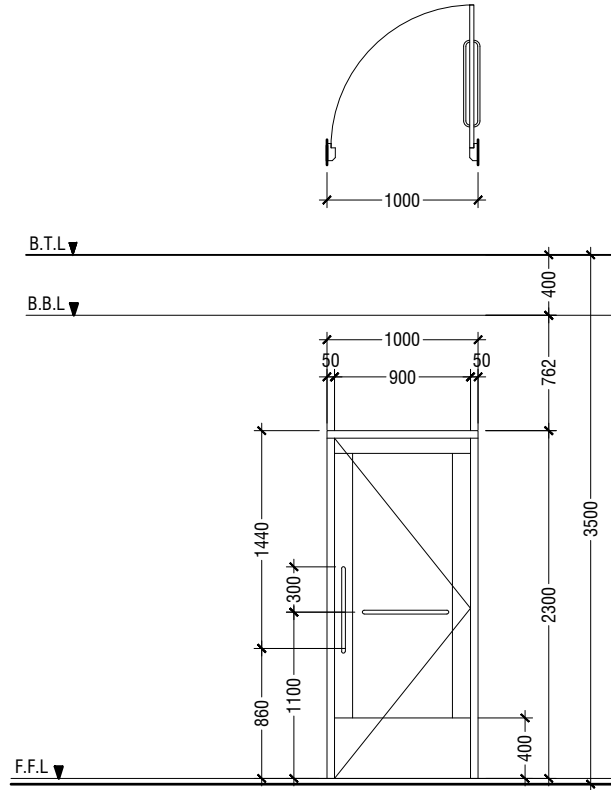
D1	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	HALL ENTRANCE
QUANTITY	05 NOS
OPEN AREA	4.05 sqm



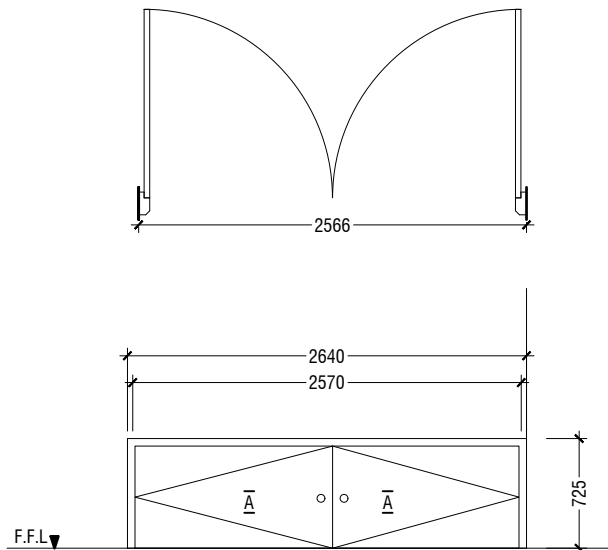
D2	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	ELECTRIC ROOM, CONTROL ROOM & STORE ROOM
QUANTITY	07 NOS
OPEN AREA	2.03 sqm



D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS
QUANTITY	06 NOS
OPEN AREA	1.23 SQM



D4	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



D5	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE STORE ACCESS
QUANTITY	04 NOS
OPEN AREA	1.66 SQM

LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

NOTE:-
- FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES, LIKEWISE, THE BEAM DEPTH CHANGES AT DIFFERENT LOCATIONS OF SIMILAR DOORS/WINDOWS AND WILL BE SUBJECTED TO CHANGES
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- 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.

DOOR / WINDOW SCHEDULE - 1

SCALE 1:50



Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number: Ri/2020/006
Date: May 2021
Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muthalib Waleed
Drawn by : Mohamed Yasbiq Ismail
Services : Jose Julius Alzate & Jeffrey Caballo
Interior : -



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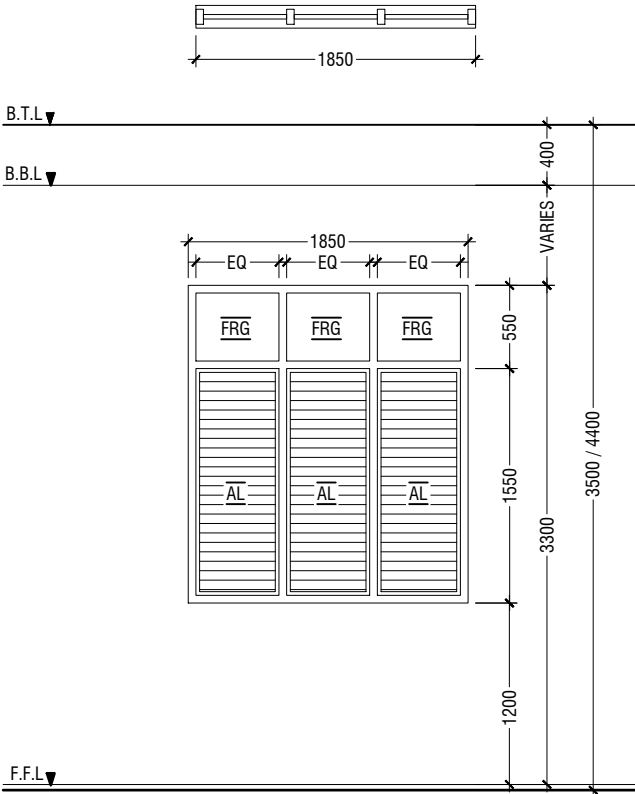
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Title: Door / Window

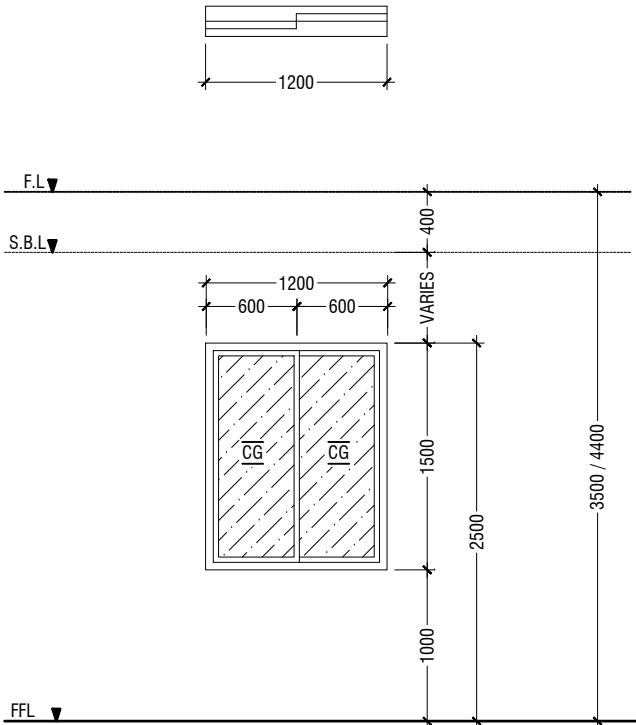
Schedule - 1

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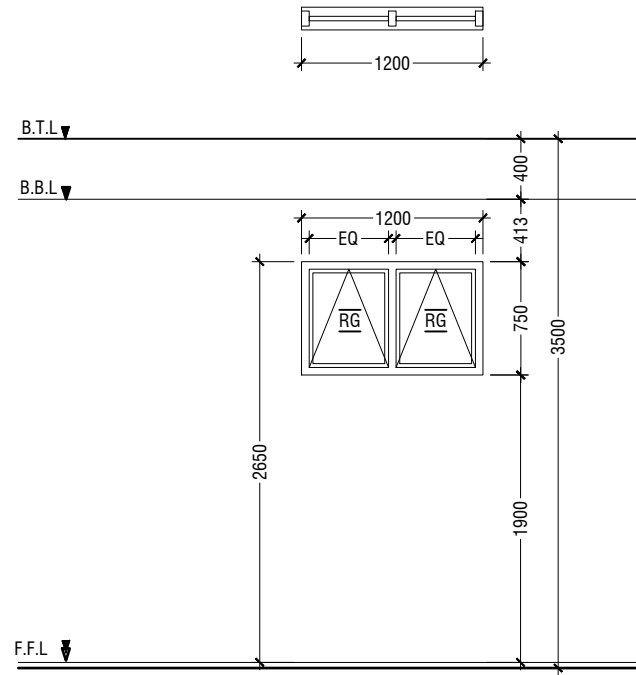
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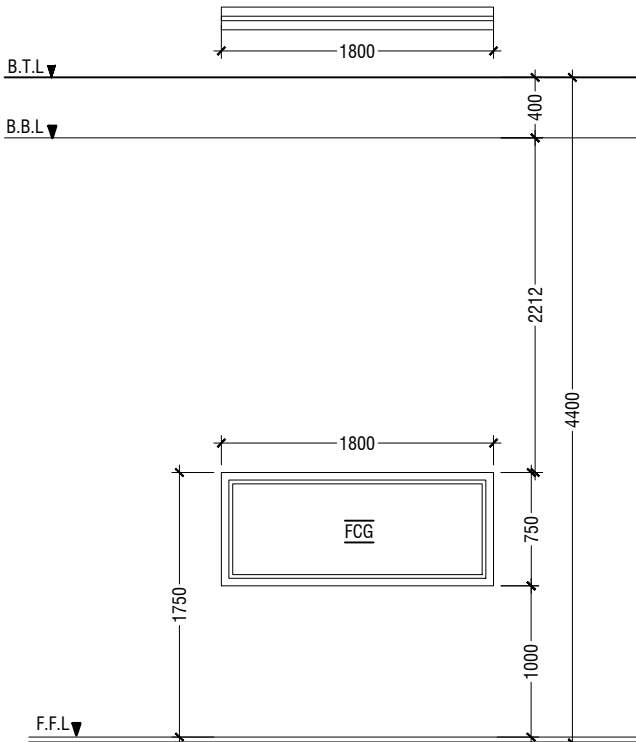
W1	WINDOW WITH FIXED GLASS & ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS AND 6mm THICK REFLECTED FIXED GLASS PANELS
LOCATION	HALL
QUANTITY	14 NOS
OPEN AREA	2.40 sqm



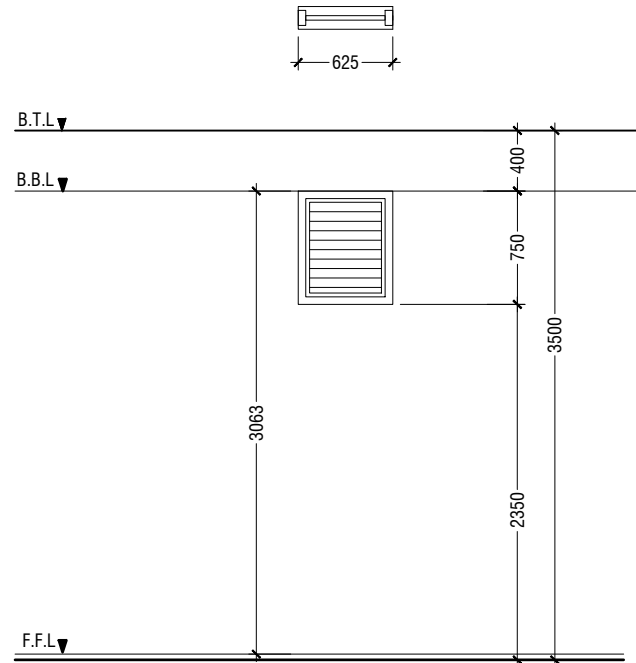
W2	SLIDING WINDOW
REMARKS	FRAME: POWDER COATED ALUMINIUM FRAME WITH WIDTH 50mm AND 12mm FIXED CLEAR GLASS.
LOCATION	GROUND & FIRST FLOOR
QUANTITY	13 NOS
OPEN AREA	0.80sqm



W3	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	STORE ROOMS , CONTROL ROOM & CHANGING ROOM
QUANTITY	3 NOS
OPEN AREA	0.68 sqm



W4	FIXED WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK CLEAR GLASS PANEL
LOCATION	CONTROL ROOM
QUANTITY	01 NOS
OPEN AREA	- sqm

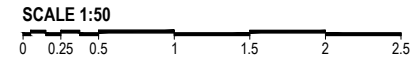


V1	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ELECTRICAL ROOM & STAIR CASE
QUANTITY	05 NOS
OPEN AREA	0.68 sqm

LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

NOTE:-
- FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES, LIKEWISE, THE BEAM DEPTH CHANGES AT DIFFERENT LOCATIONS OF SIMILAR DOORS/WINDOWS AND WILL BE SUBJECTED TO CHANGES
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- 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.

DOOR / WINDOW SCHEDULE - 2



Ga.Kolamaafushi School Hall
Client: Ministry of Education

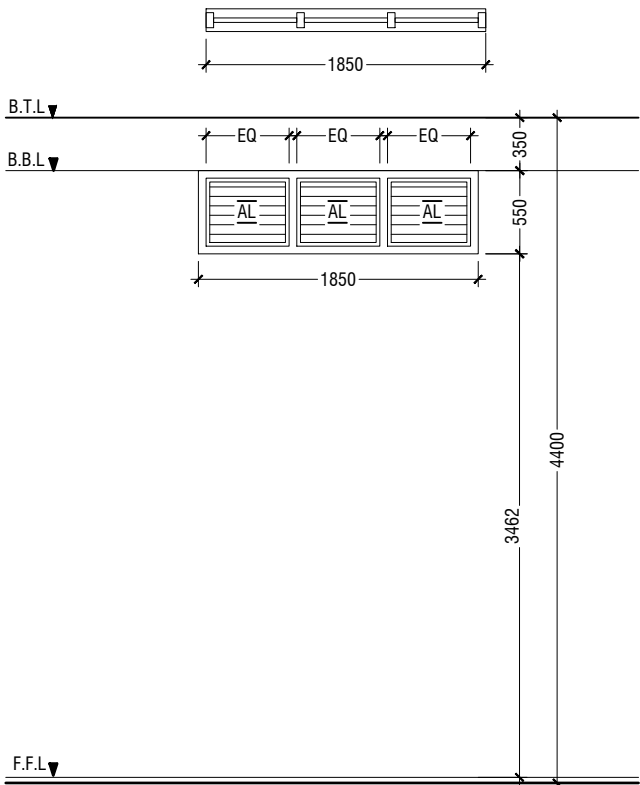
Project Number: Ri/2020/006	Rev no	Date
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Title: Door / Window
Schedule - 2
Page: A-09/25

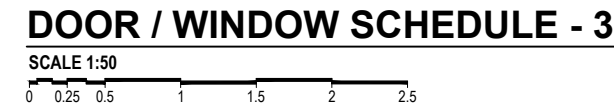
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<div>V2</div>	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ABOVE HALL CEILING
QUANTITY	16 NOS
OPEN AREA	0.72 sqm

LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

NOTE:-
- FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES, LIKEWISE, THE BEAM DEPTH CHANGES AT DIFFERENT LOCATIONS OF SIMILAR DOORS/WINDOWS AND WILL BE SUBJECTED TO CHANGES
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- 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.



SCHEDULE OF VENTILATION GA.KOLAMAAFUSHI SCHOOL

	Room name	Room Areas (sqm) (Specify centre to centre or clear)	Window (opening) number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
	Ground Floor					
1	Multi-purpose Hall	437.45	3xD1, 1xD2, 14xW1, 16xV2	43.75	59.30	13.56%
2	Changing Room -1 (F)	3.00	W3	0.30	0.68	22.67%
3	Changing Room -2 (M)	4.36	MECHANICAL VENTILATION			
4	Toilet for Disable	5.22	V1	0.52	0.68	13.03%
5	Toilet (Male)	11.70	2xV1	1.17	1.36	11.62%
6	Toilet (Female)	9.33	2xV1	0.93	1.36	14.58%
	First Floor					
7	Control Room	11.50	2xW2	1.15	1.60	13.91%
8	Store Room	12.60	2xW2	1.26	1.60	12.70%
9	Electrical Room	12.60	2xW2	1.26	1.60	12.70%
10	Meeting Room	38.61	4xW2	3.86	8.05	20.85%
11	Pantry	7.80	W2	0.78	0.80	10.26%

VENTILATION SCHEDULE

NTS

Ga.Kolamaafushi School Hall
Client: Ministry of Education



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

Title: Door/Window Schedule
& Ventilation Schedule

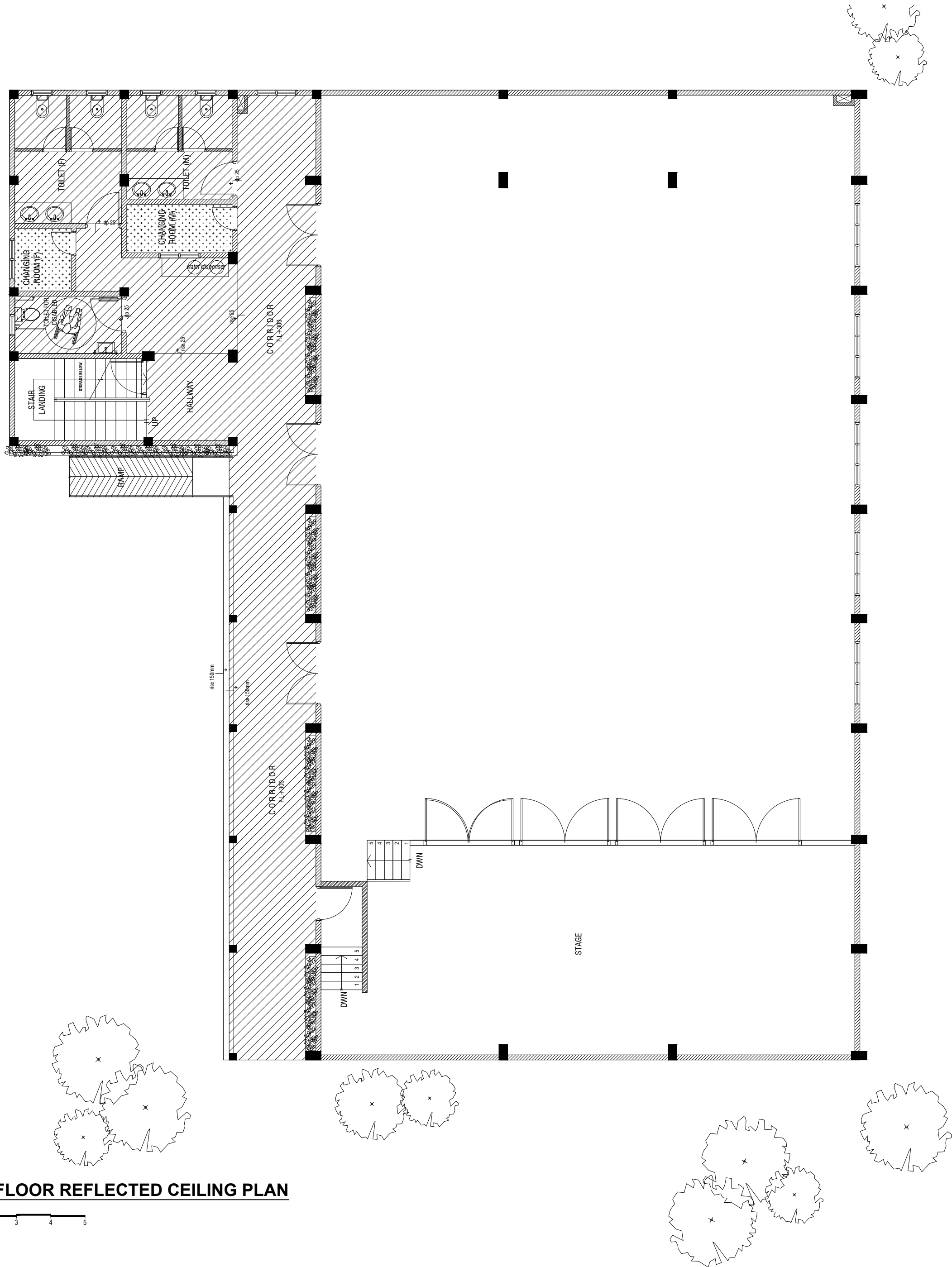
Page: A-10/25

Project Number: RI/2020/006	Rev no	Date
Date: May 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muthalib Waleed	--	-----
Drawn by : Mohamed Yasbiq Ismail	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----

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GROUND FLOOR REFLECTED CEILING PLAN

SCALE 1:100



LEGEND	
CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)
	6mm THICK CEMENT BOARD CEILING WITH PUTTY AND SELECTED PAINT FINISH

Ga Kolamaafushi School Hall
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: May 2020	--	-----
Drawn by: Mohamed Yashiq Ismail	--	-----
Services: Jose Julius Alzate & Jeffry Calallo	--	-----
Interior: --	--	-----



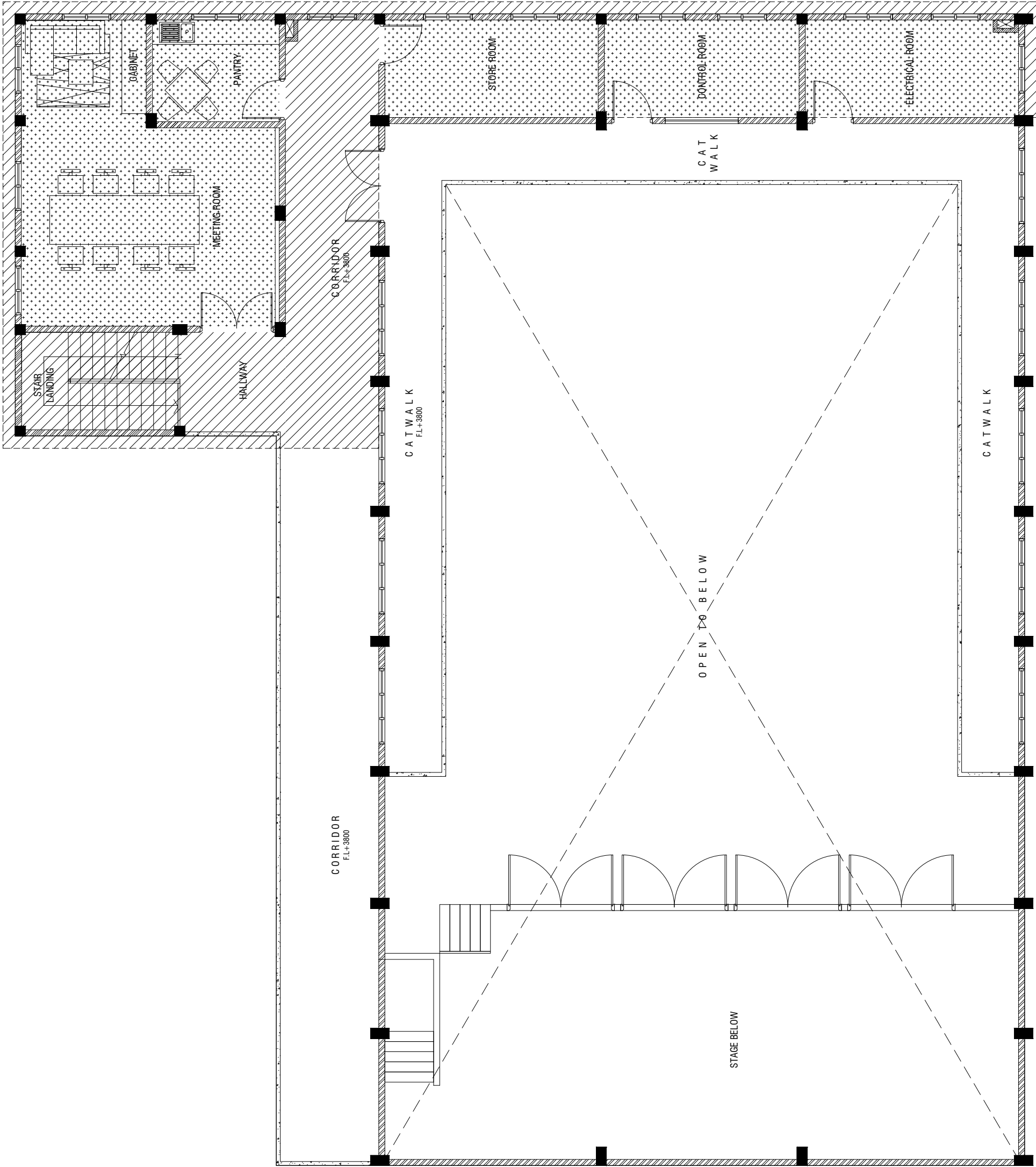
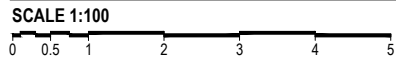
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3rd Floor, H. Azumi, Ameenmadugu, Malé

Title: Ground Floor Reflected Ceiling Plan

Page: A-11/25

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FIRST FLOOR REFLECTED CEILING PLAN @ G.L +7150mm



LEGEND	
CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)
	6mm THICK CEMENT BOARD CEILING WITH PUTTY AND SELECTED PAINT FINISH



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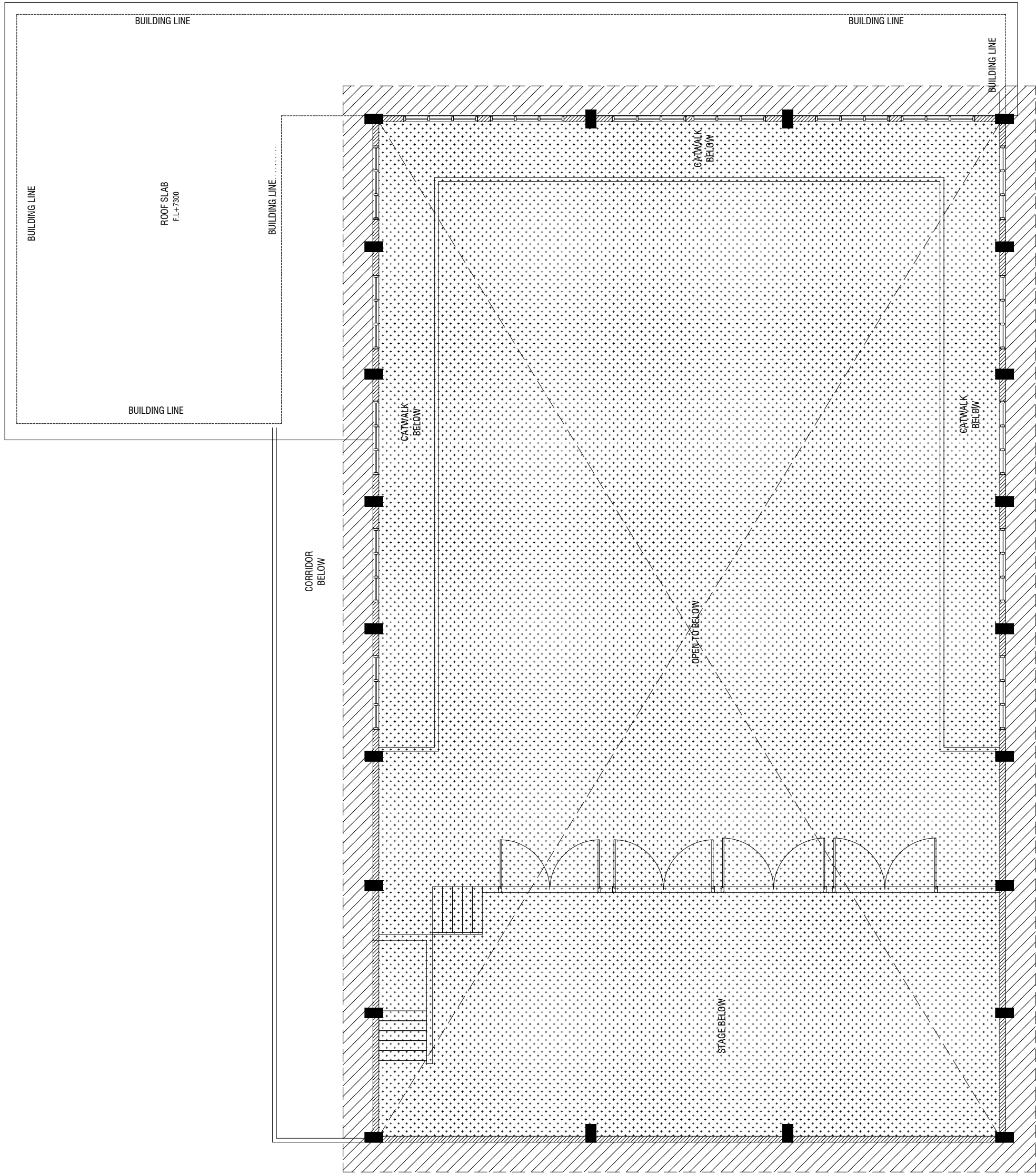
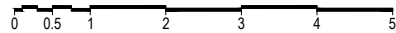
Title: First Floor Reflected Ceiling Plan
Page: A-12/25

Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number	Rev no	Date
RI/230/006	--	-----
Date: May 2025	--	-----
Drawn by: Mohamed Yashiq Ismail	--	-----
Services: Jose Julius Alzate & Jeffry Caballo	--	-----
Interior: -	--	-----

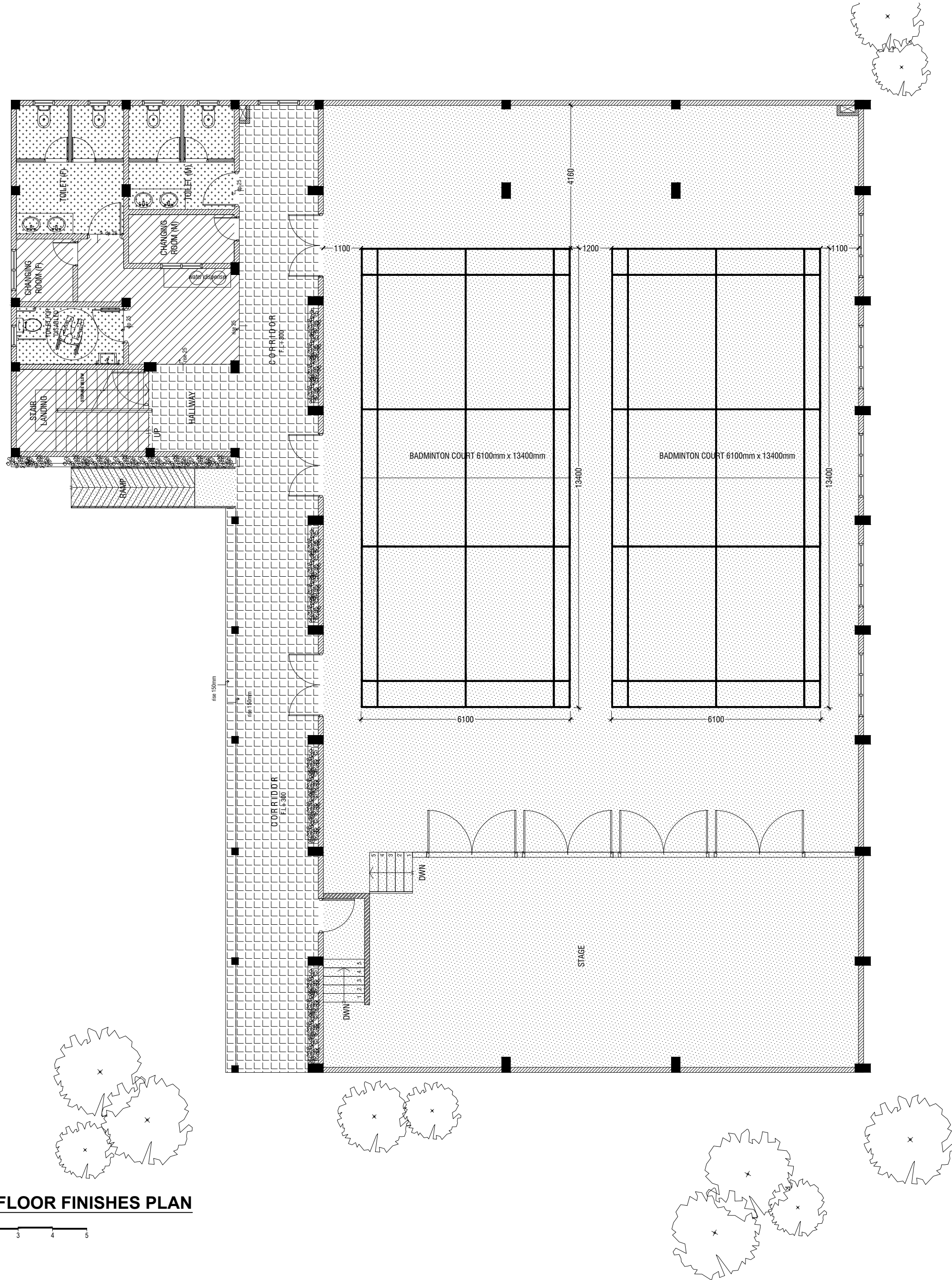
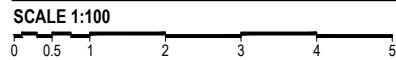
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ROOF LEVEL REFLECTED CEILING PLAN @ G.L +8200mm
SCALE 1:100



LEGEND	
CODE	DESCRIPTION
	9mm THICK FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT
	6mm THICK CEMENT BOARD CEILING WITH PUTTY AND SELECTED PAINT FINISH

GROUND FLOOR FINISHES PLAN



LEGEND	
CODE	DESCRIPTION
	35mm NORMAL SCREEDING WITH 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY) FOR RAMP: 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB)

	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING
--	---

NOTE:
BADMINTON COURT TO BE DRAWN ON WITH ELASTOMETRIC PAINT IN SELECTED PAINT FINISH

STAGE SHOULD HAVE A CARPET FINISH ON TOP OF THE 25X100mm HARDWOOD FLOORING

Ga. Kolamaafushi School Hall
Client: Ministry of Education

Project Number	Rev no	Date
R/2020/006	01	2020/05/20
Drawn by	02	2020/05/20
Engineer	03	2020/05/20
Services	04	2020/05/20
Interior	05	2020/05/20



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3rd Floor, H. Azam, Amaranemaguu, Malé

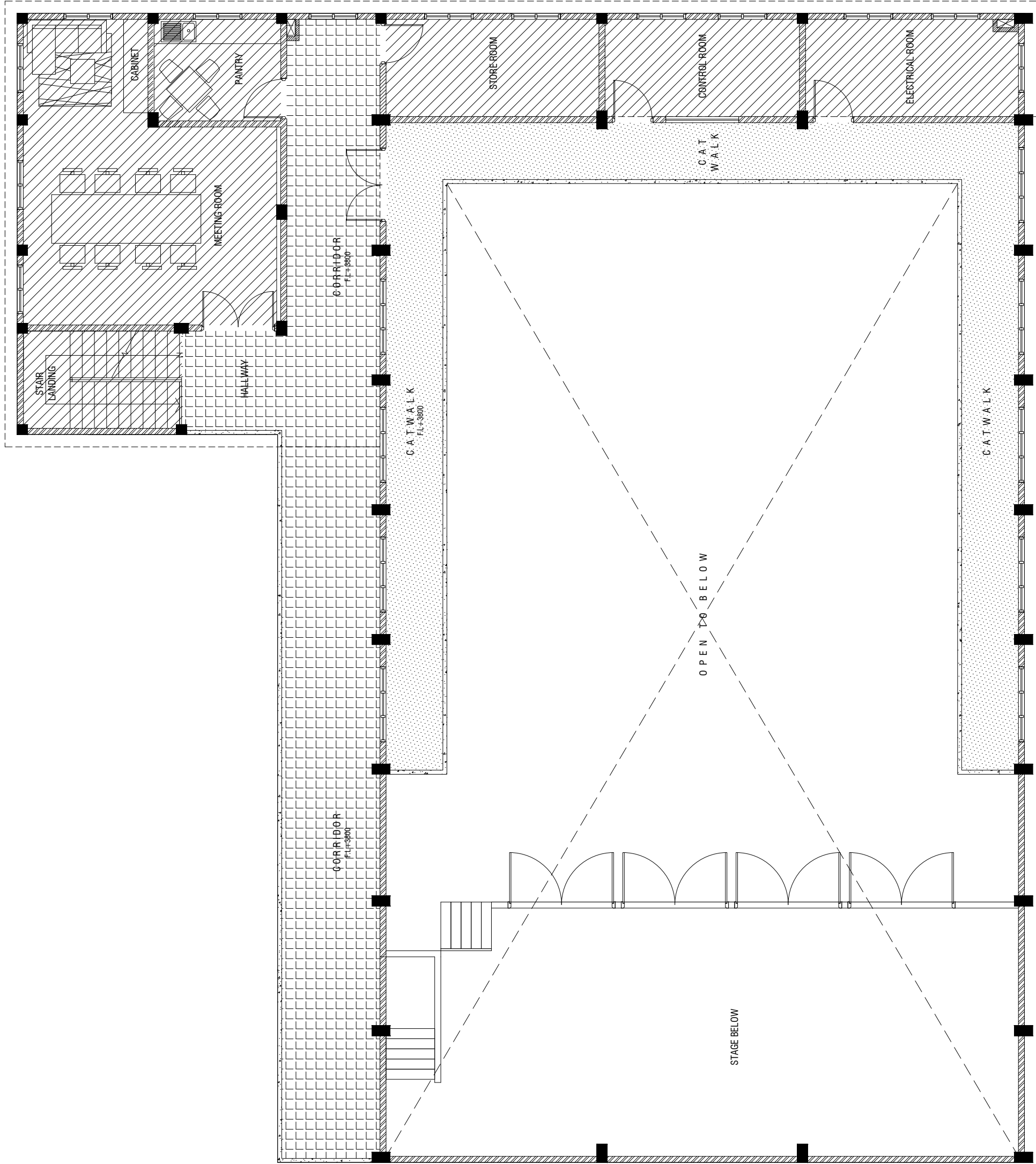
Title: Ground Floor Finishes Plan

Page: A-14/25

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FIRST FLOOR FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

CODE	DESCRIPTION
	35mm NORMAL SCREEDING WITH 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	SELF LEVELLING CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB)

Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number: RI/2320/006
Date: May 2023
Designed by: Mohamed Yashiq Ismail
Engineer: Mohamed Yashiq Ismail
Drawn by: Mohamed Yashiq Ismail
Services: Jose Julius Alzate & Jeffrey Caballo
Interior: -

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



RYAN PRIVATE LIMITED

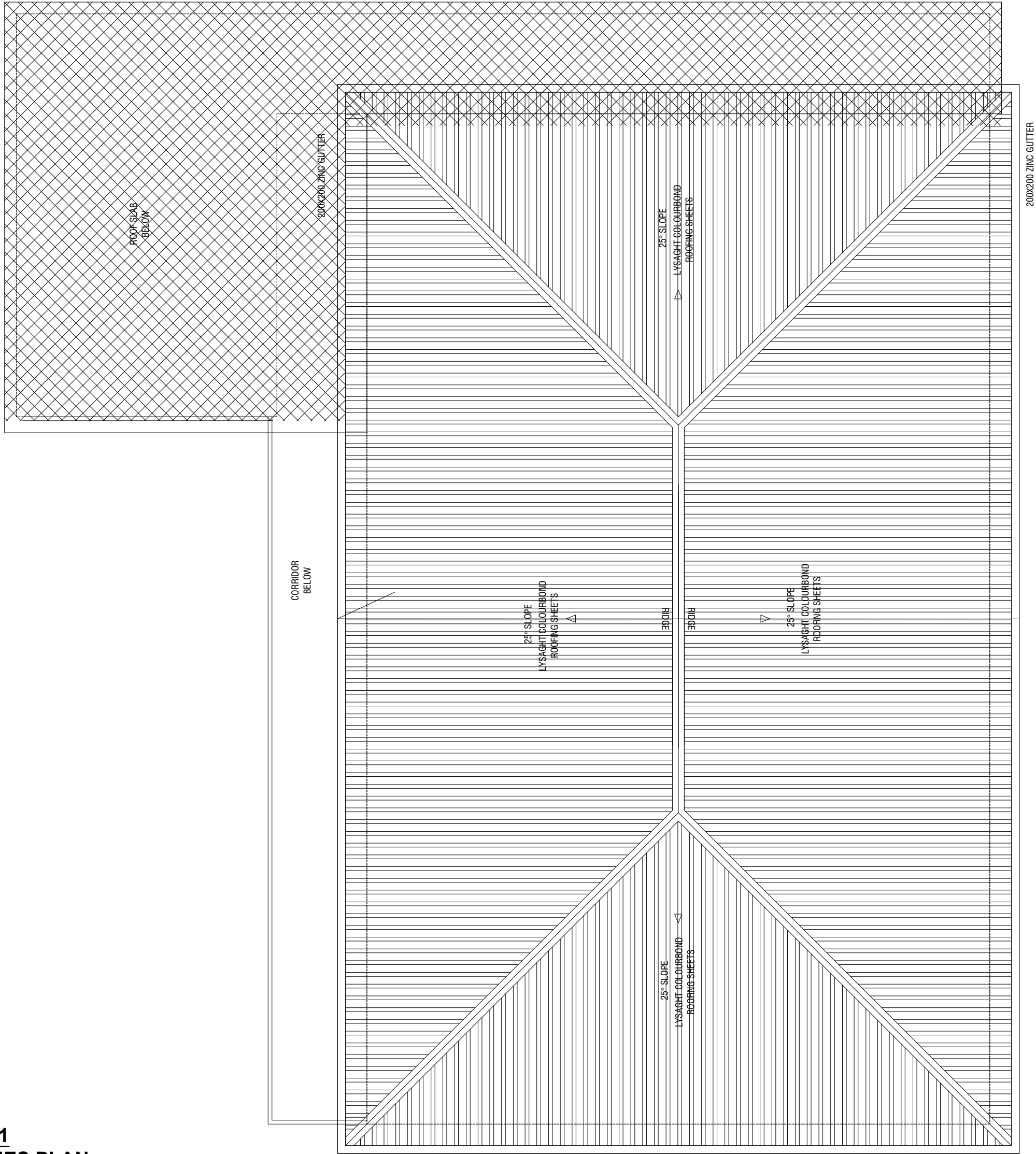
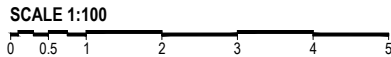
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W: www.ryan.com.mv
3rd Floor, H. Azam, Amaranemaguu, Malé

Title: First Floor Finishes
Plan

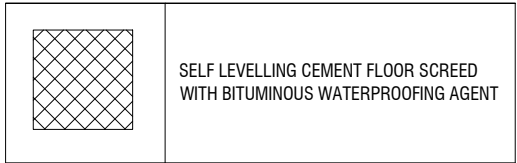
Page: A-15/25

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ROOF SLAB - 1
FLOOR FINISHES PLAN



LEGEND



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Client: Ministry of Education

Project Number: RI/230/006	Rev no	Date
Date: May 2023	--	-----
Drawn by: Mohamed Yashiq Ismail	--	-----
Engineer: Mohamed Muhiithalla Waleed	--	-----
Services: Jose Julius Alzate & Jeffry Caballo	--	-----
Interior: --	--	-----

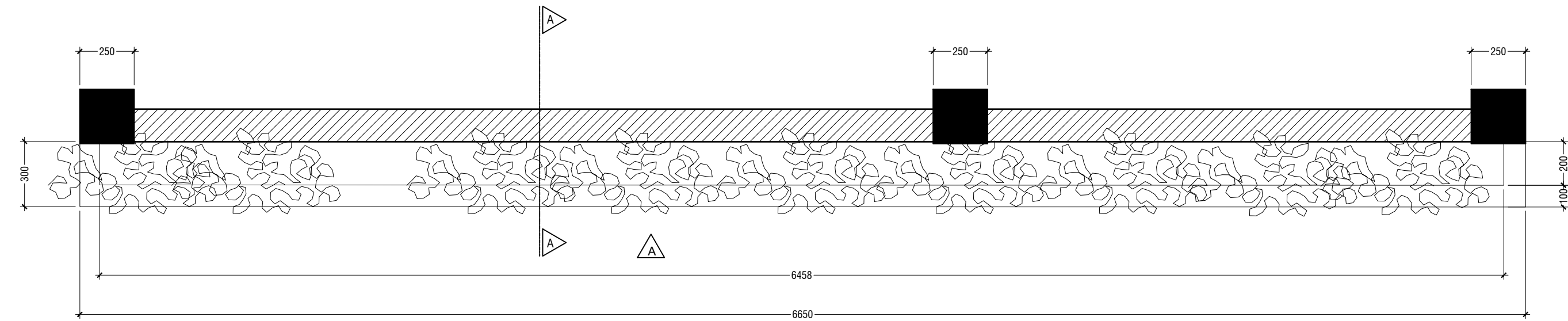


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3rd Floor, H. Azumi, Amaranemaguu, Male

Title: Roof Slab - 1 Floor
Floor Finishes Plan

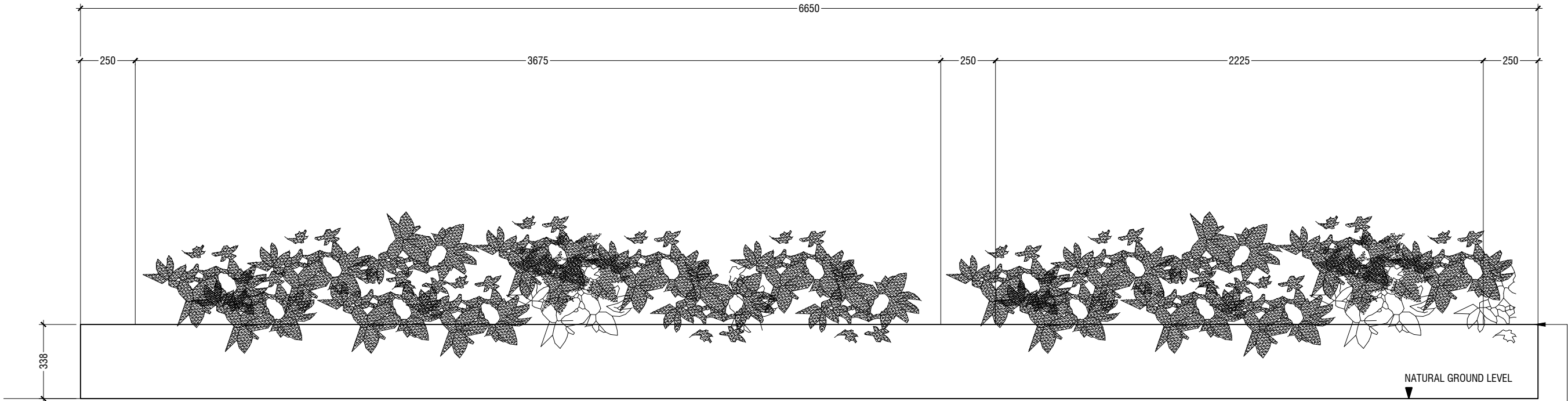
Page: A-16/25

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PLAN

SCALE 1:20



ELEVATION A

SCALE 1:20



DETAIL - 1

PLANTER BOX DETAILS

SCALE 1:20



Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: May 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muththalib Waleed	--	-----
Drawn by : Mohamed Yasbiq Ismail	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----



RIYAN PRIVATE LIMITED

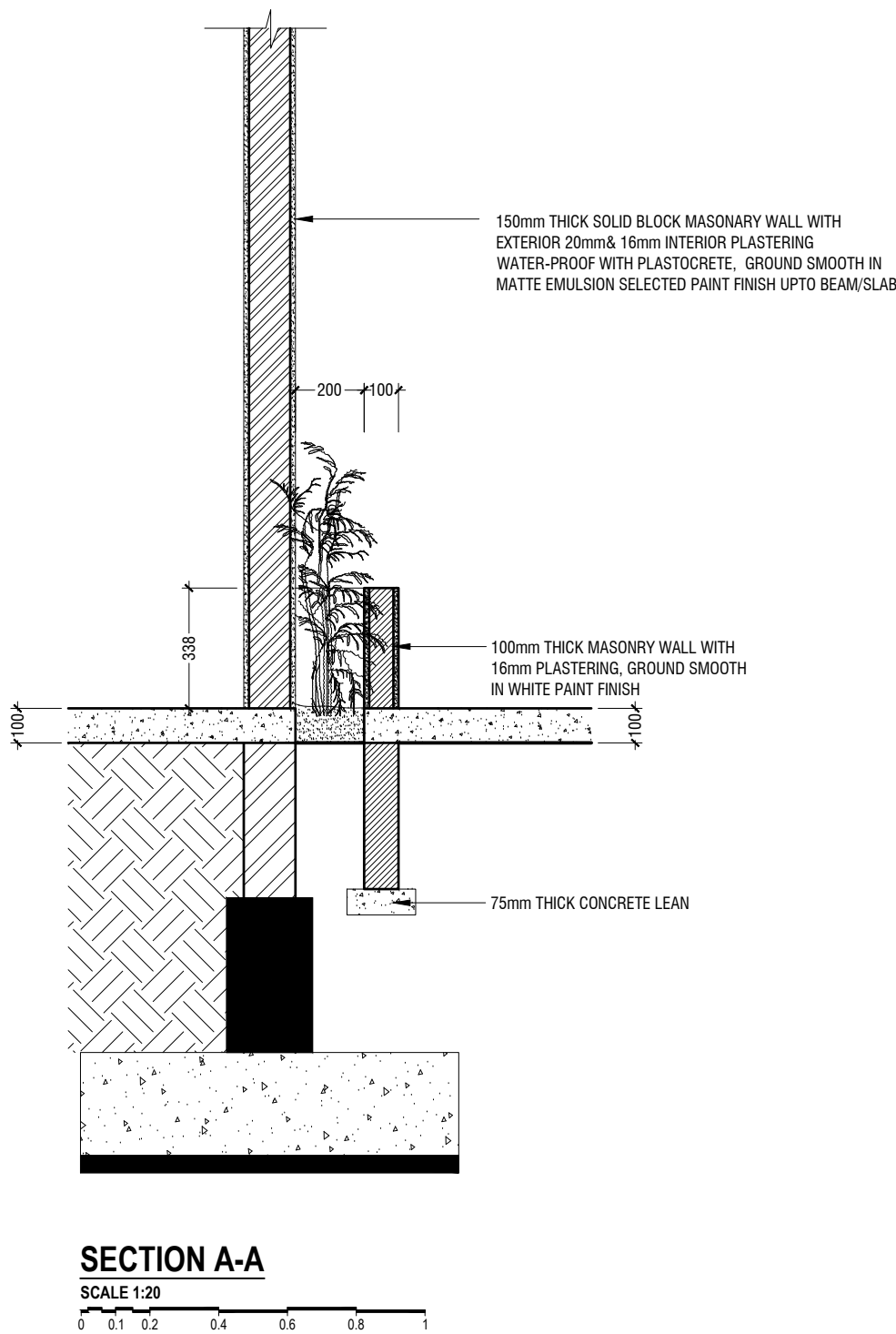
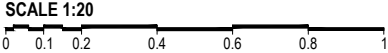
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w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Title: Planter Box Detail

Page: A-17/25

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DETAIL - 1
PLANTER BOX DETAILS



Ga.Kolamaafushi School Hall
Client: Ministry of Education

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w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemagui, Male'

Title: Planter Box Detail - 2

Page: A-18/25

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

Project Number: RI/2020/006
Date: May 2021
Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mohamed Yasbiq Ismail
Services : Jose Julius Alzate & Jeffry Caballo
Interior : -

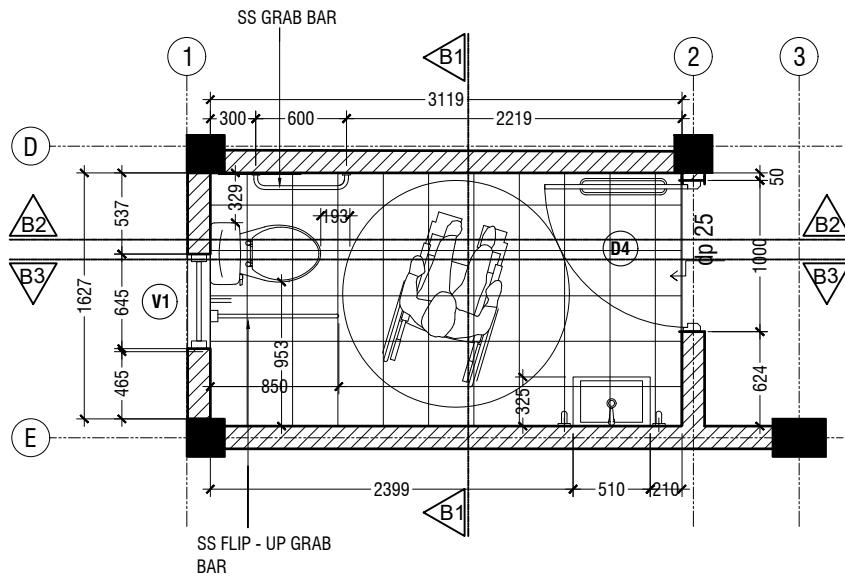
D

B2

B3

E

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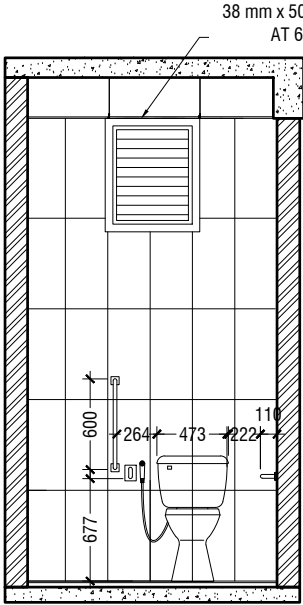


TOILET FOR PERSONS WITH DISABILITIES PLAN

SCALE 1:50

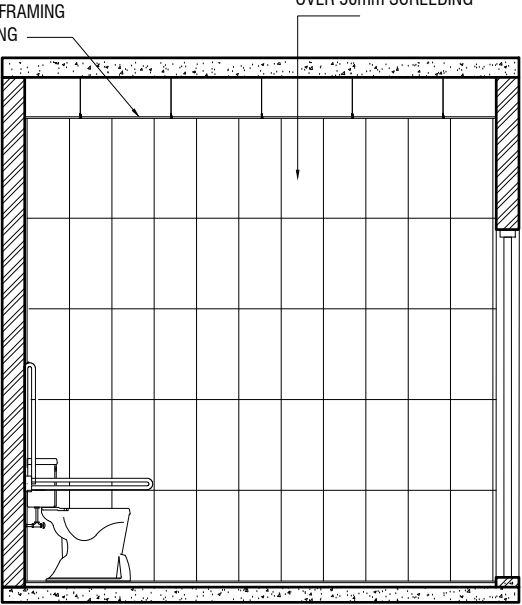
NOTE:
ALL THE MATERIALS FOR FIXTURES SHALL BE APPROVED
BY THE ARCHITECT/CONSULTANT BEFORE INSTALLATION

GRAB BARS OF THE DISABLE TOILET SHALL BE AS PER MANUFACTURE'S DETAIL



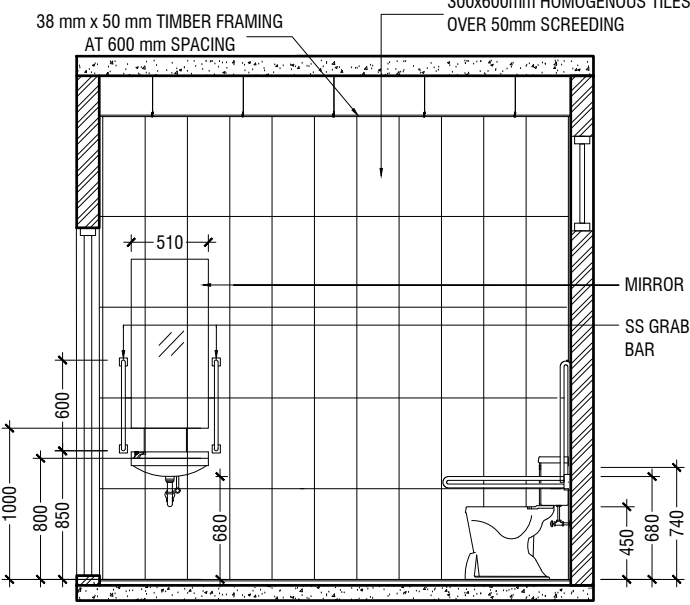
SECTION B1-B1

SCALE 1:50



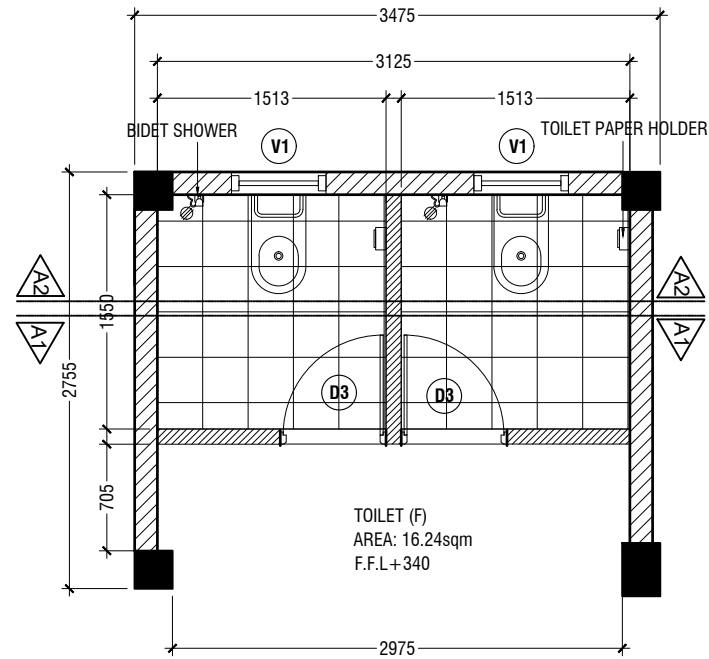
SECTION B2-B2

SCALE 1:50



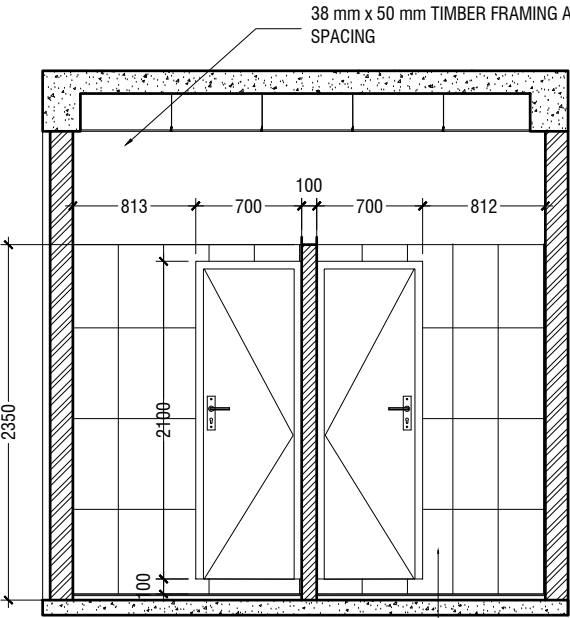
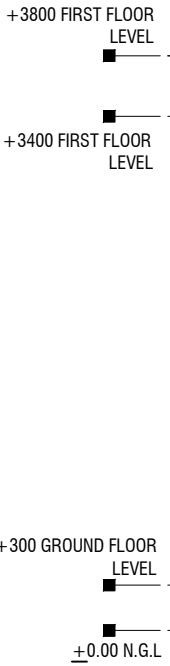
SECTION B3-B3

SCALE 1:50



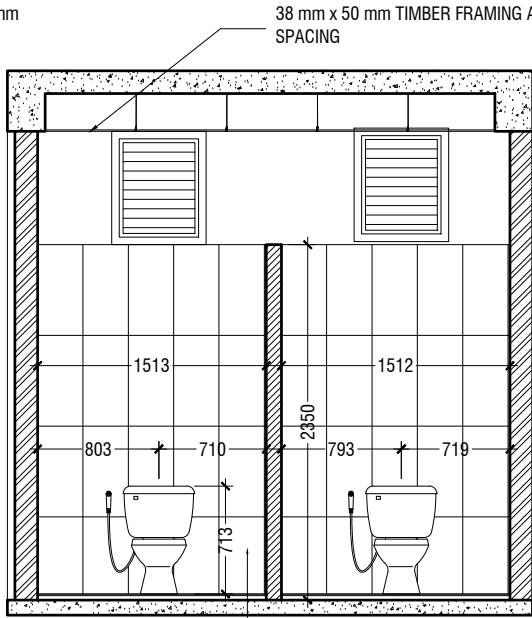
TYPICAL TOILET PLAN

SCALE 1:50



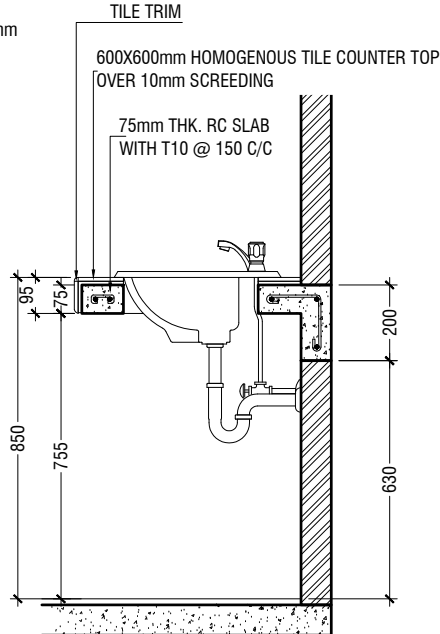
SECTION A1-A1

SCALE 1:50



SECTION A1-A1

SCALE 1:50



COUNTER TOP DETAILS

SCALE 1:20

TOILET DETAILS

SCALE 1:50

Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number: RI/2020/006
Date: May 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Yashiq Ismail
Services: Jose Julius Alzate & Jeffrey Caballo
Interior: -



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

Title: Toilet Details

Page: A-19/25

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MAIN STAIRCASE PLAN

SCALE 1:50



2mm THICK 25mm Ø, 1.5-2mm THICK, GI PIPE
RAILING WITH POWDER COATED FINISH
150x150x6mm THICK STEEL PLATE

03 NOS. 8mm ANCHOR BOLTS

38mm THICK CEMENT SCREED

HOMOGENOUS NON-SLIP TILES
OVER 50mm SCREEDING
(STEP TILE WITH GROOVE)

DETAIL - A
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

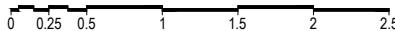
DETAIL - A

SCALE 1:20



SECTION C-C

SCALE 1:50

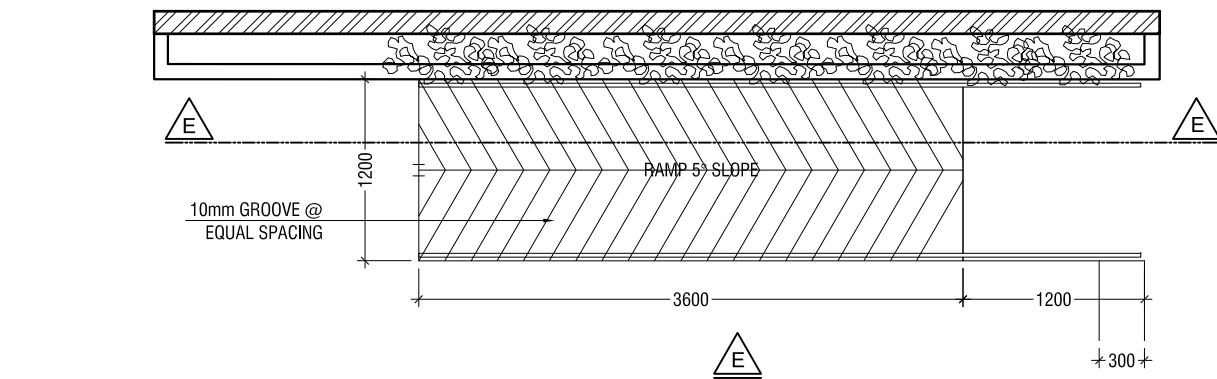


DETAIL - 3

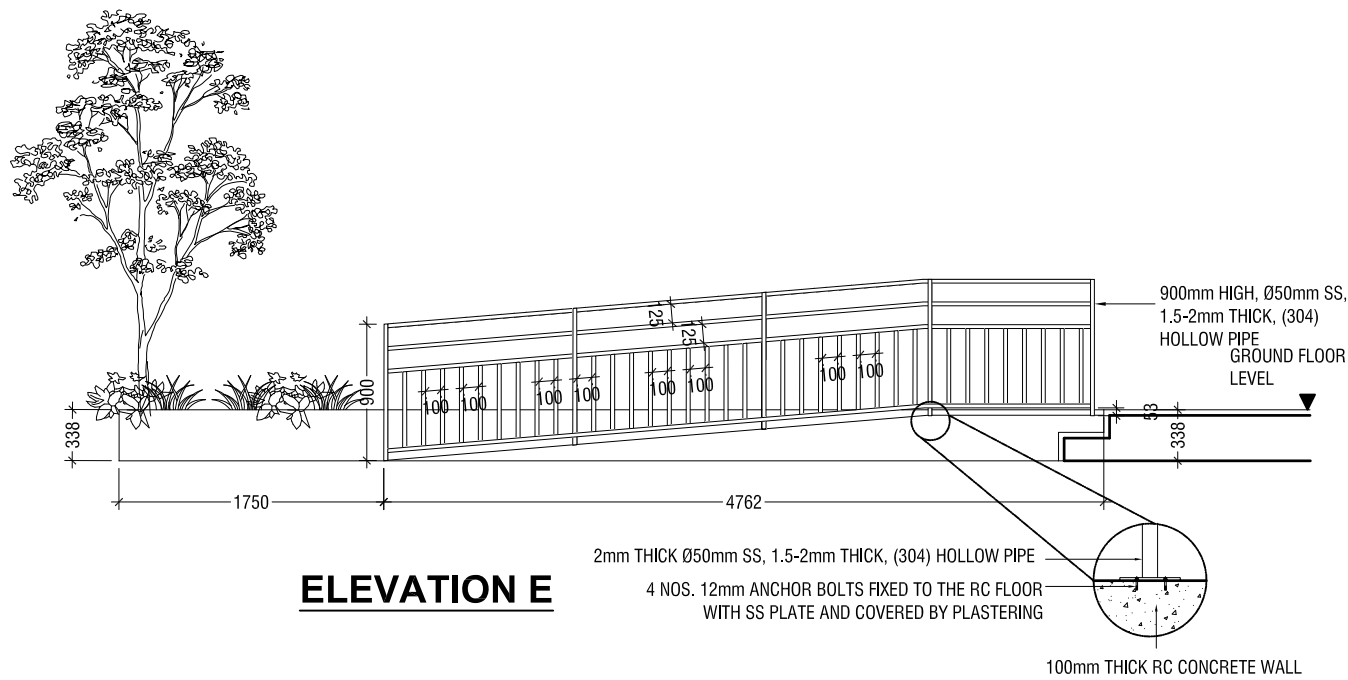
MAIN STAIRCASE DETAILS

SCALE 1:50

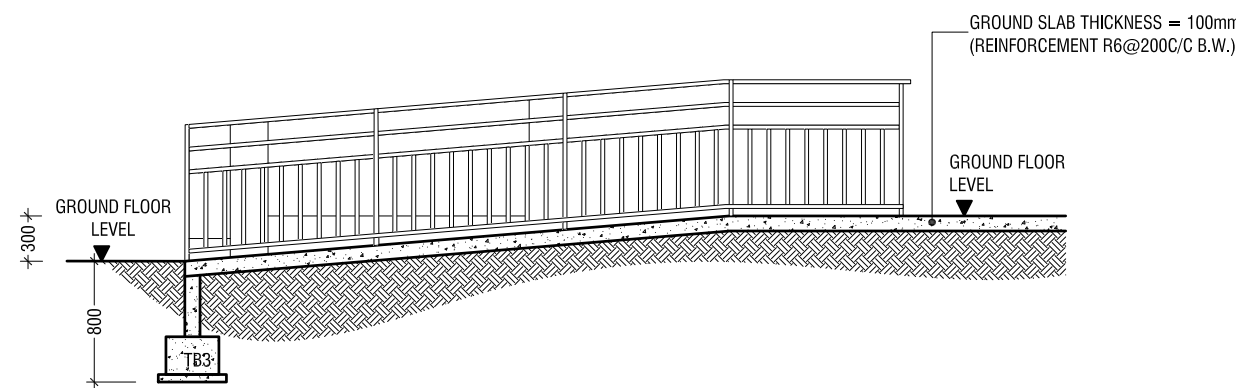




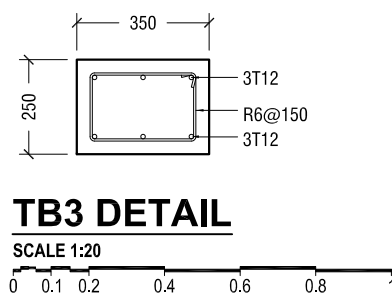
BUILDING ENTRANCE RAMP PLAN



ELEVATION E

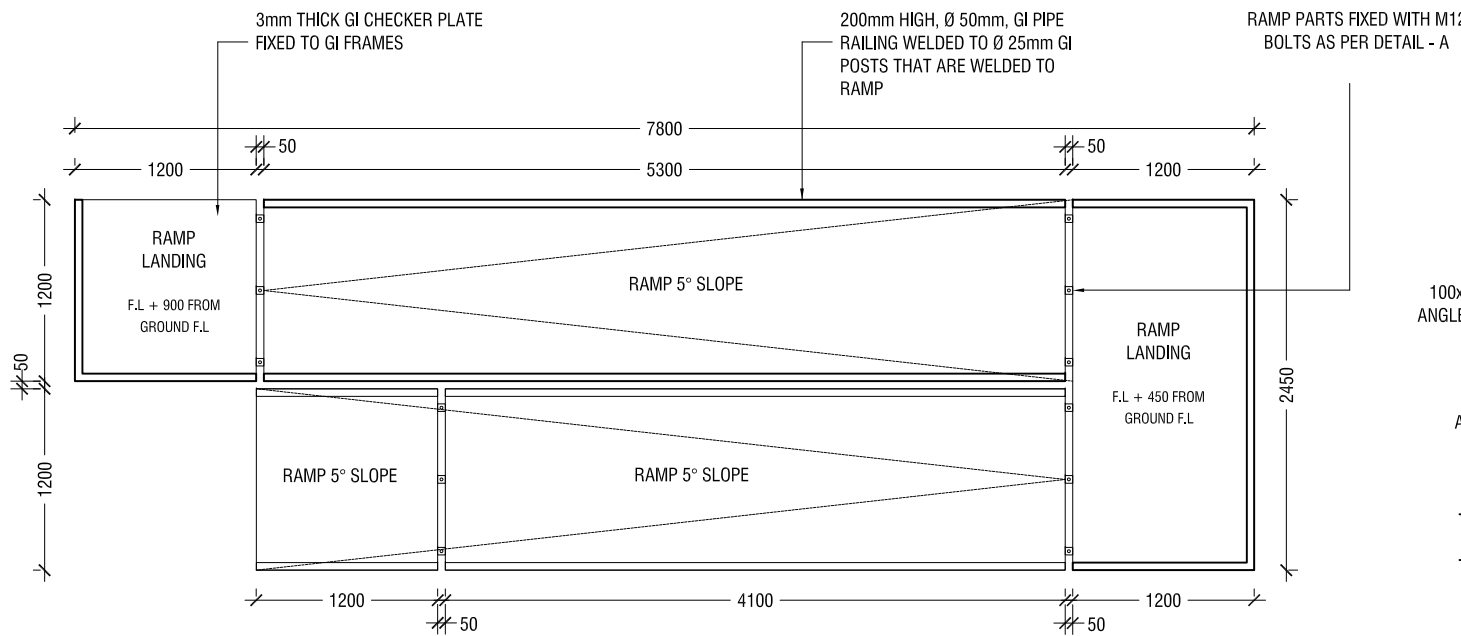
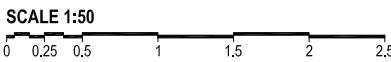


SECTION E-E

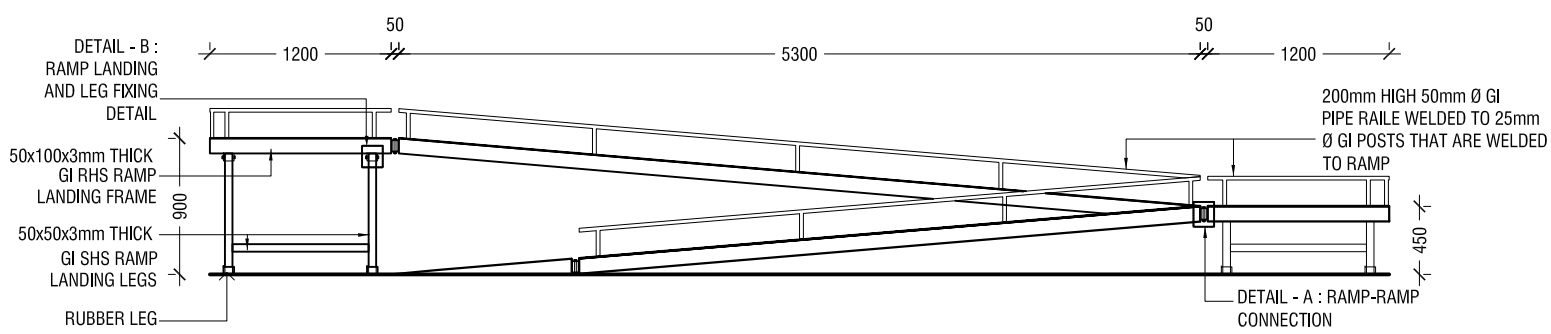


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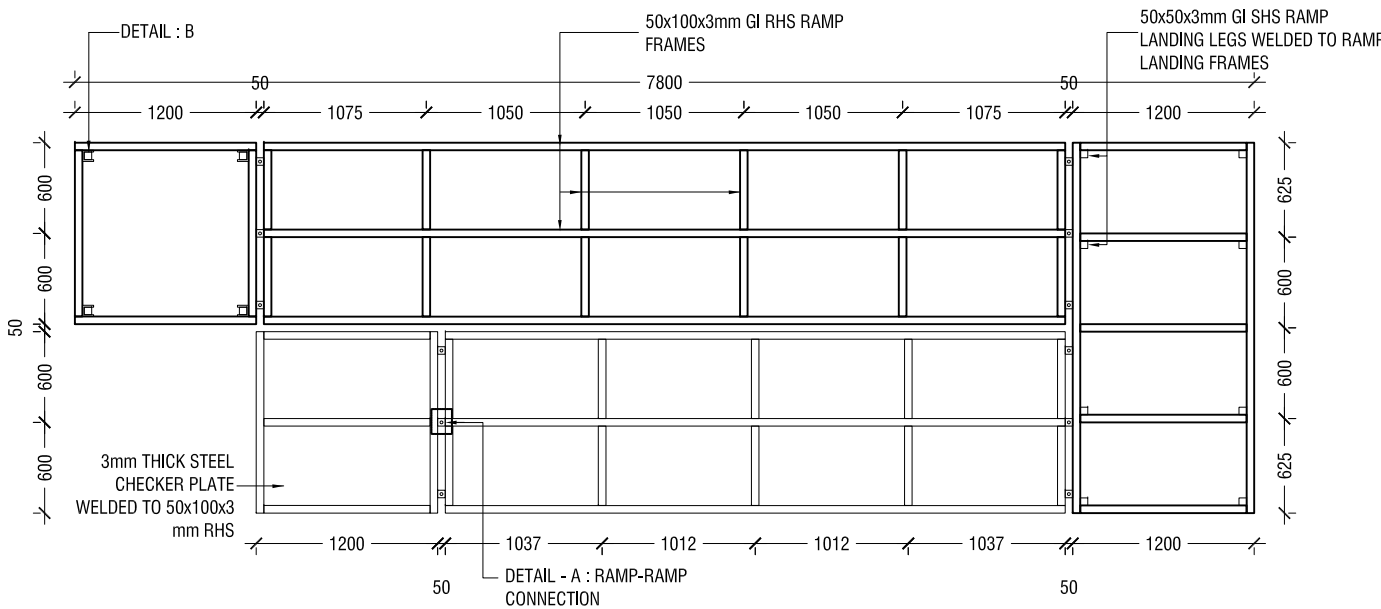
MAIN ENTRANCE RAMP DETAIL



STAGE RAMP PLAN

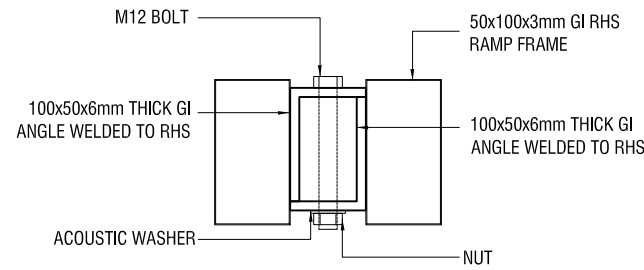


STAGE RAMP - ELEVATION

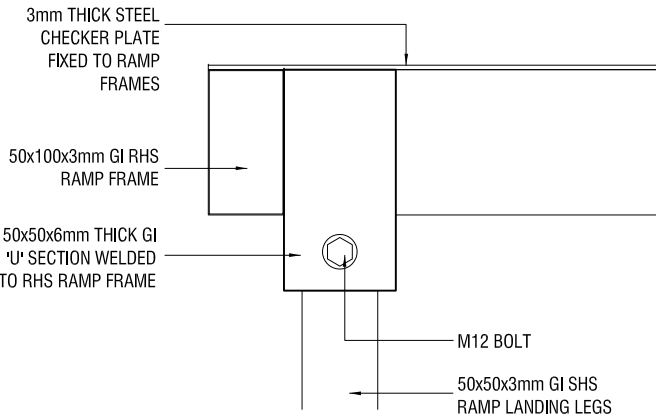


STAGE RAMP - FRAMING PLAN

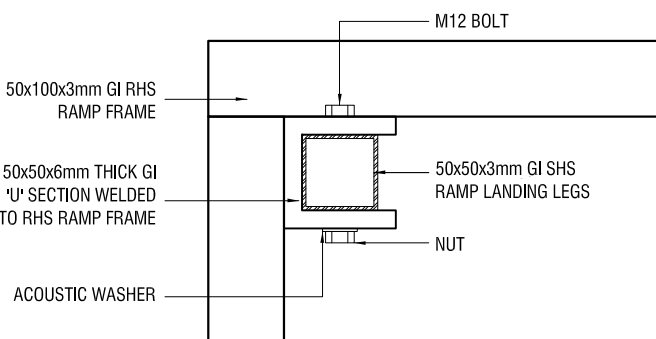
DETAIL - 4 (STAGE RAMP DETAIL)



**DETAIL - A
RAMP - RAMP CONNECTION DETAIL**

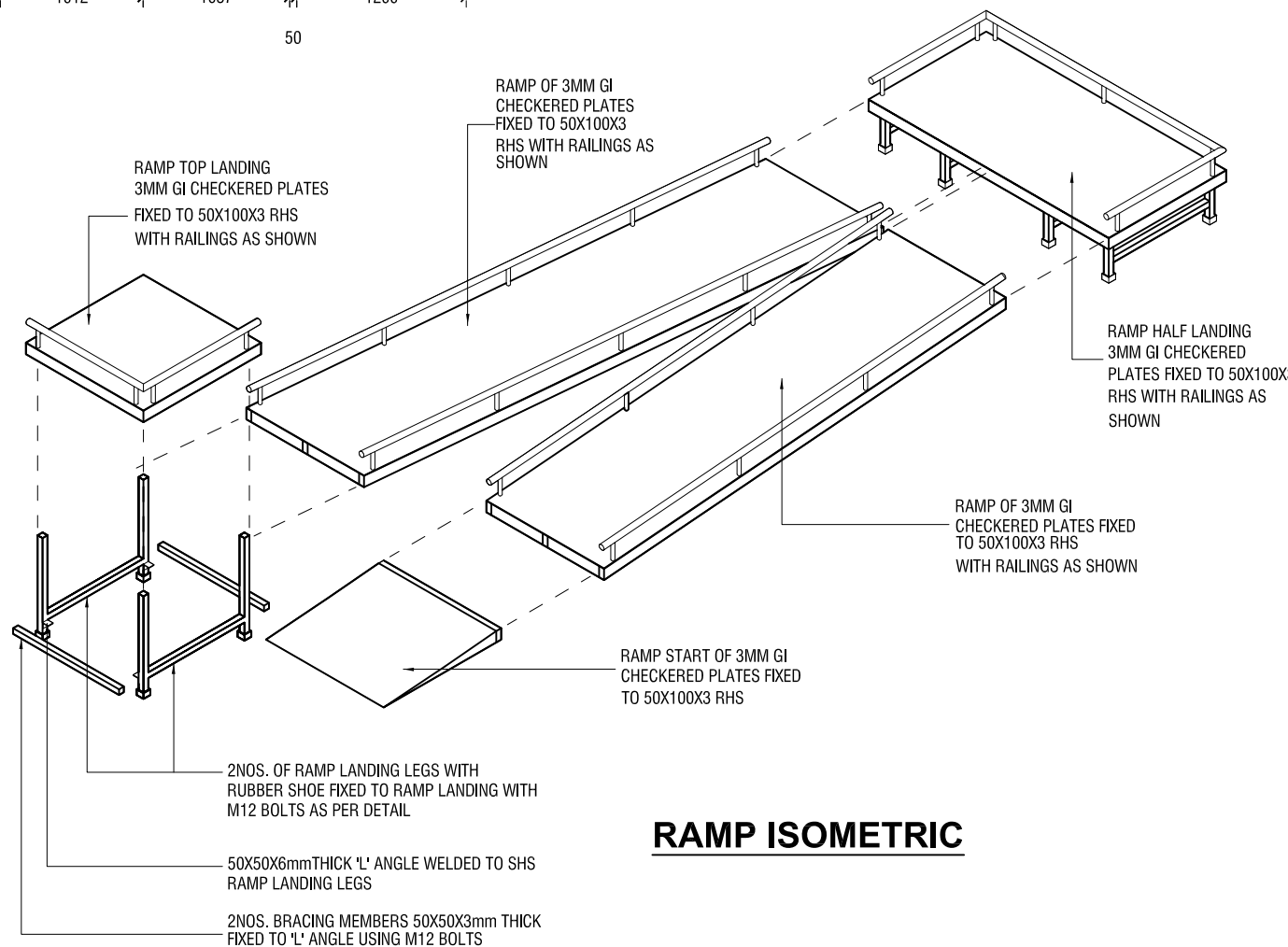


ELEVATION

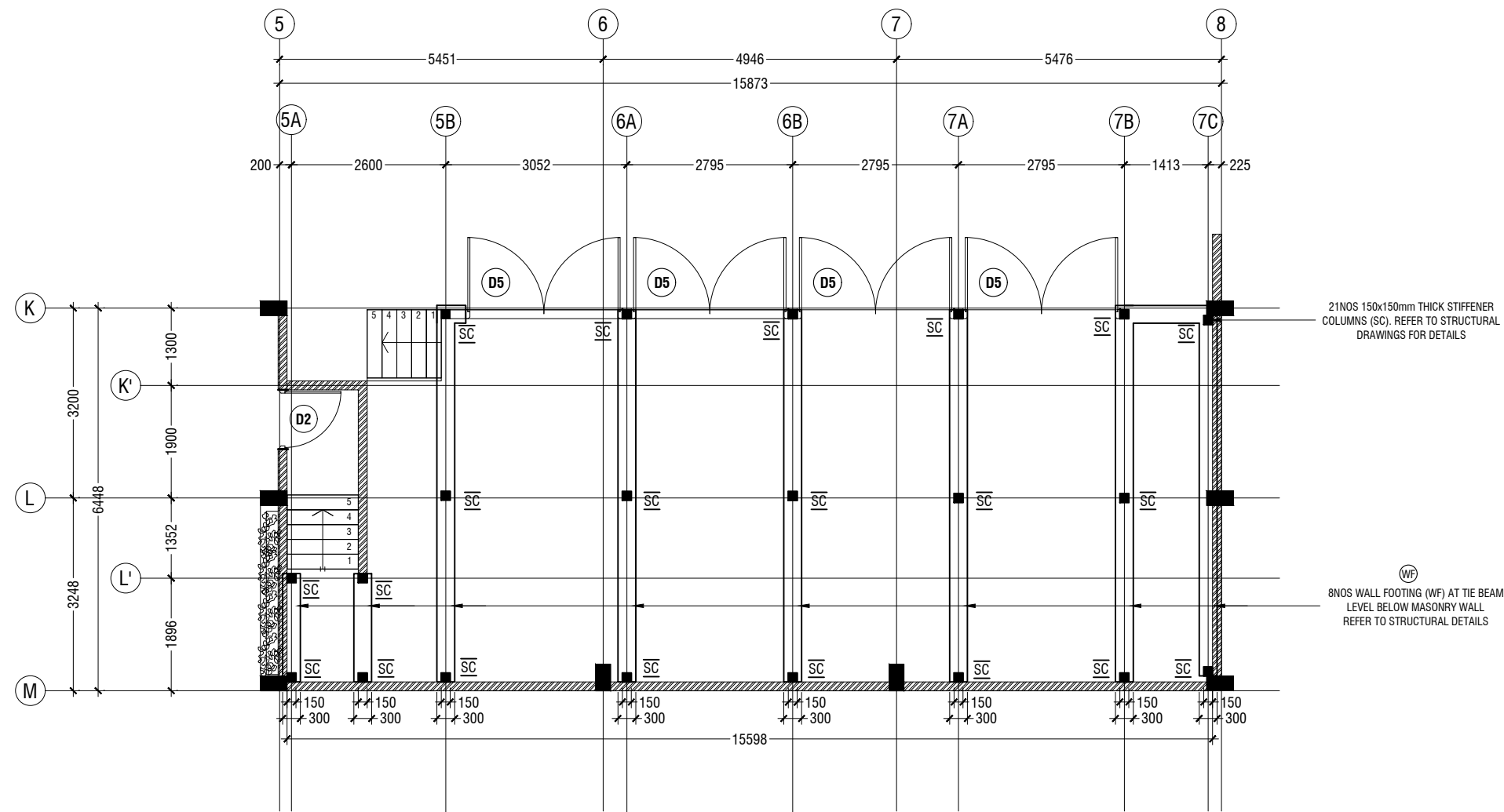


PLAN VIEW

**DETAIL B :
RAMP LEG FIXING DETAIL**



RAMP ISOMETRIC



NOTE

PLEASE REFER TO STRUCTURAL DETAILS FOR STIFFENER COLUMN DETAILS

STAGE COLUMN & WALL FOOTING LAYOUT

SCALE 1:100



DETAIL - 5
STAGE DETAIL

SCALE 1:100



Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number	Rev no	Date
RI/2020/006	--	-----
Date: May 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muthalib Waleed	--	-----
Drawn by : Mohamed Yasbiq Ismail	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----



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

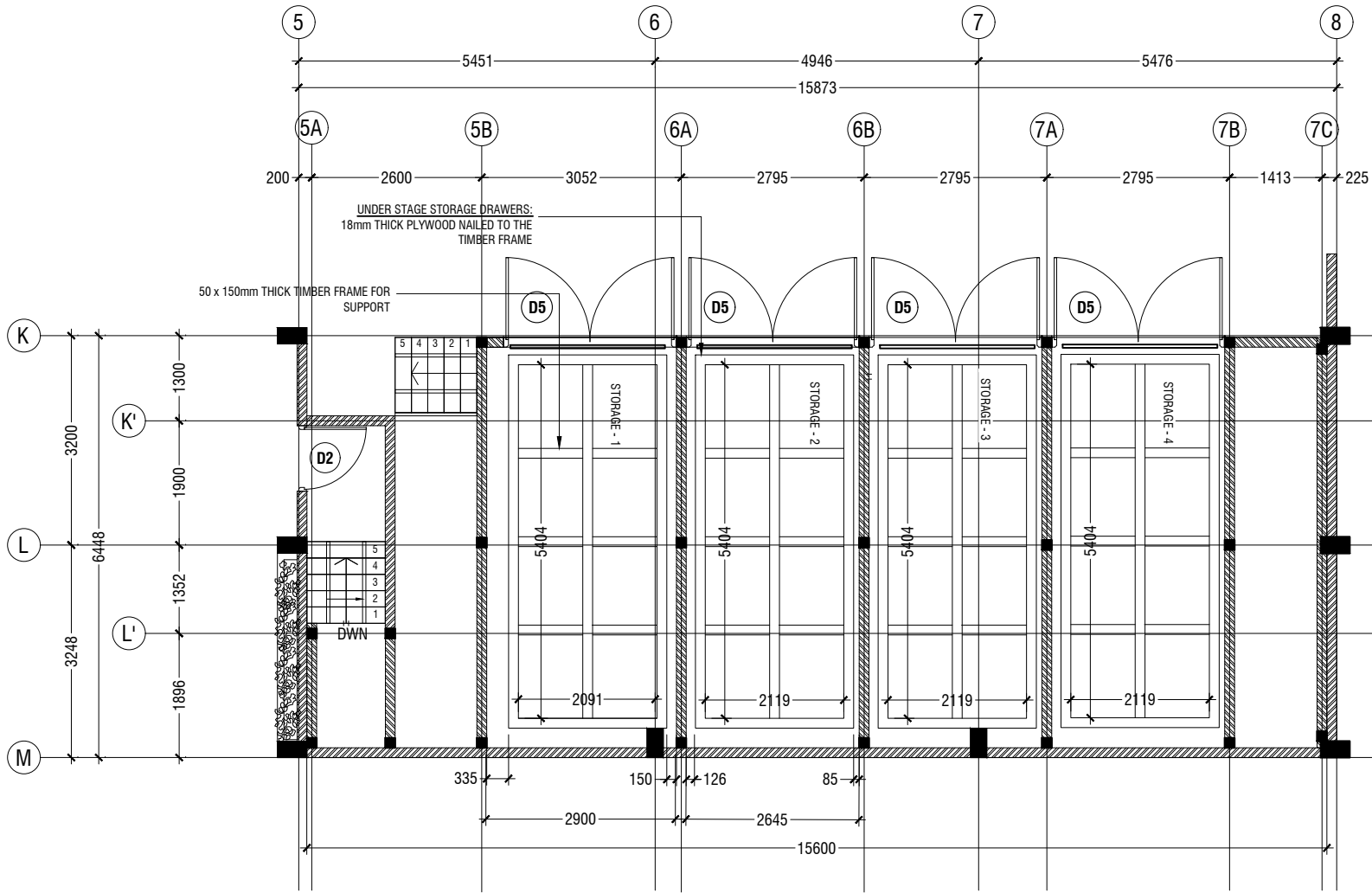
Title: Stage Column & Wall
Footing Details

Page: A-22/25

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DETAIL - 5
STAGE DETAIL

SCALE 1:100



STAGE DRAWERS PLAN

SCALE 1:100

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Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: May 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muththalib Waleed	--	-----
Drawn by : Mohamed Yasbiq Ismail	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----



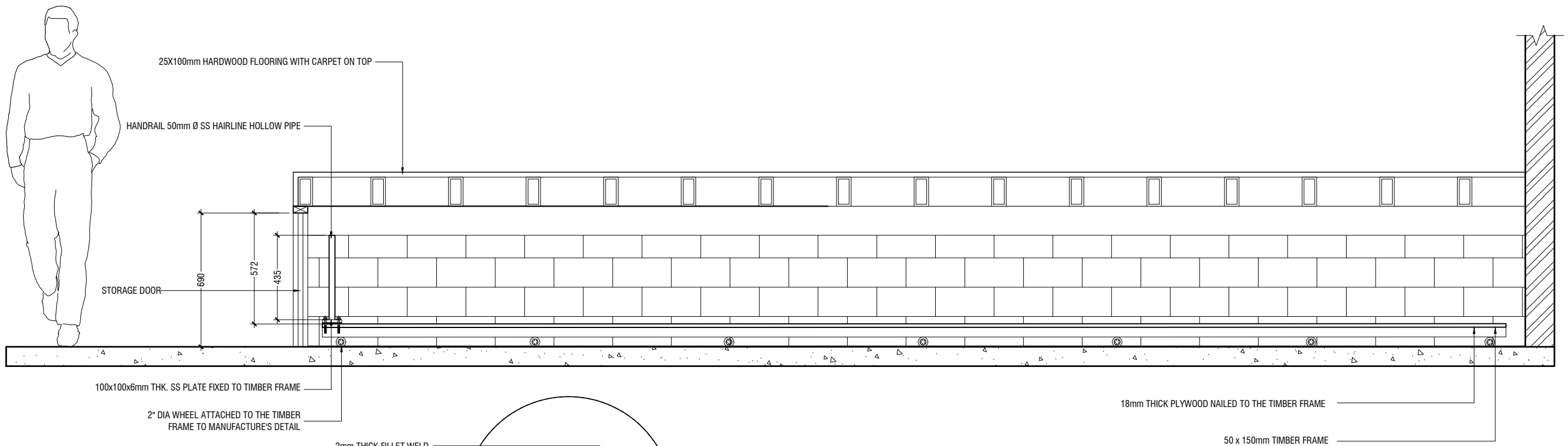
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Title: Stage Drawers Plan

Page: A-24/25

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SECTION F-F

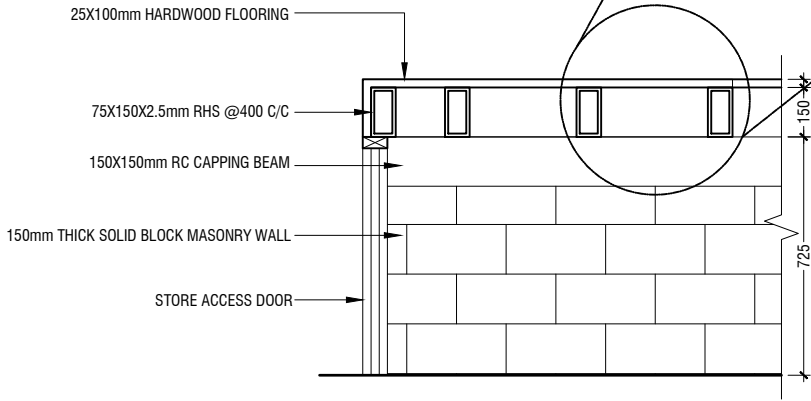
SCALE 1:20

2mm THICK FILLET WELD

75X150X2.5mm RHS @400 C/C

50 x 50 x 2.5 L-ANGLE

2 NOS - M10 J - BOLTS

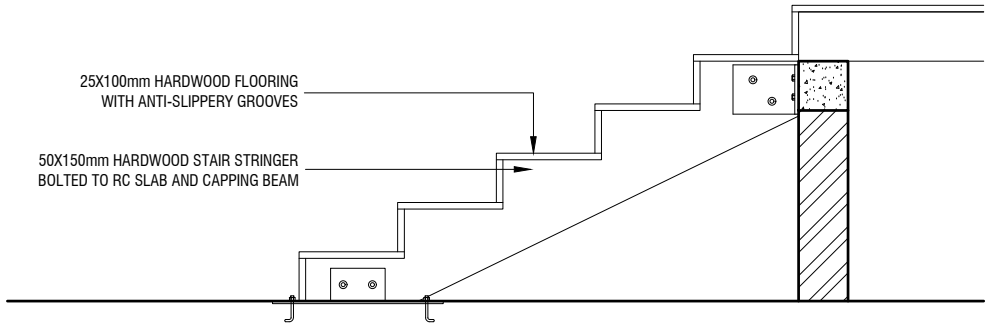


SECTION F-F

SCALE 1:20

STAGE DETAILS

SCALE 1:100



STAIR DETAIL

SCALE 1:20

Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number	Rev no	Date
R/2020/006	--	-----
Date: May 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muthalib Waleed	--	-----
Drawn by : Mohamed Yasbiq Ismail	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----



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Title: Stage Details

Page: A-25/25

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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 STRUCTURAL ELEMENTS ON GRADE

- 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 BLUNDED 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.

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.

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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

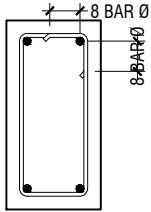
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING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

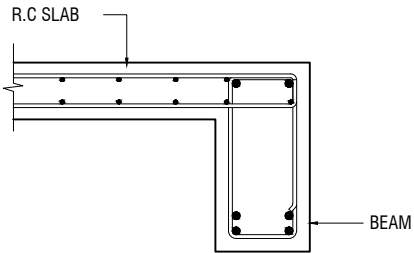
- ALL EXPOSED BARS FOR FUTURE CONSTRUCTION PURPOSES (EXCEEDING 3 MONTHS) MUST BE COATED WITH MASTER EMACO 8100 AP OR APPROVED EQUIVALENT AND PROVIDED WITH ADEQUATE MAINTENANCE.

18.0 SPACER BARS

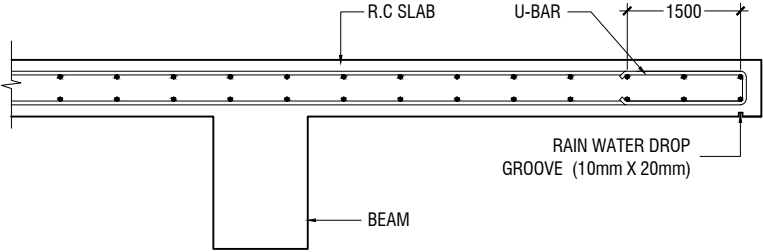
- ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1-5M C/C.



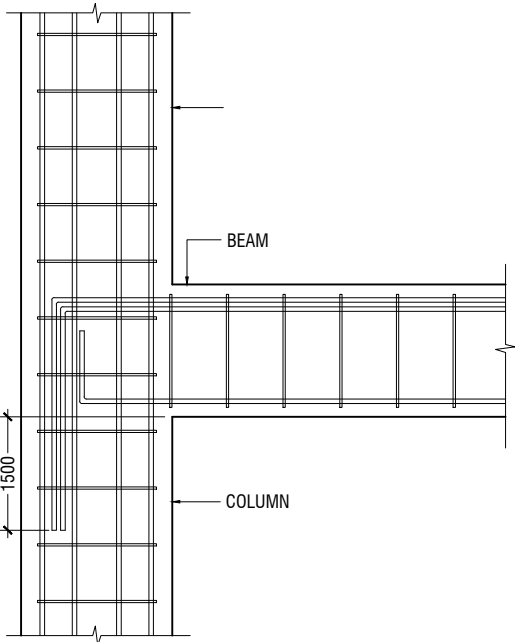
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL



BEAM TO COLUMN CONNECTION

Ga.Kolamaafushi School Hall
Client: Ministry of Education

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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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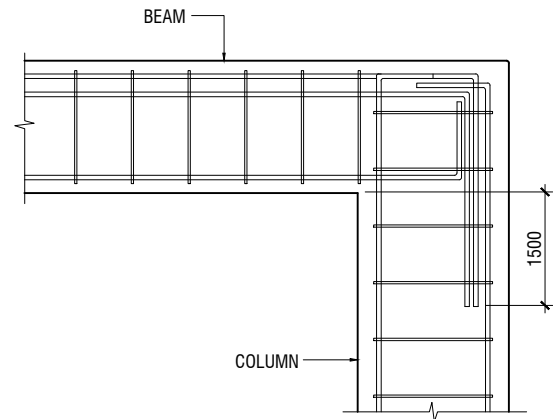
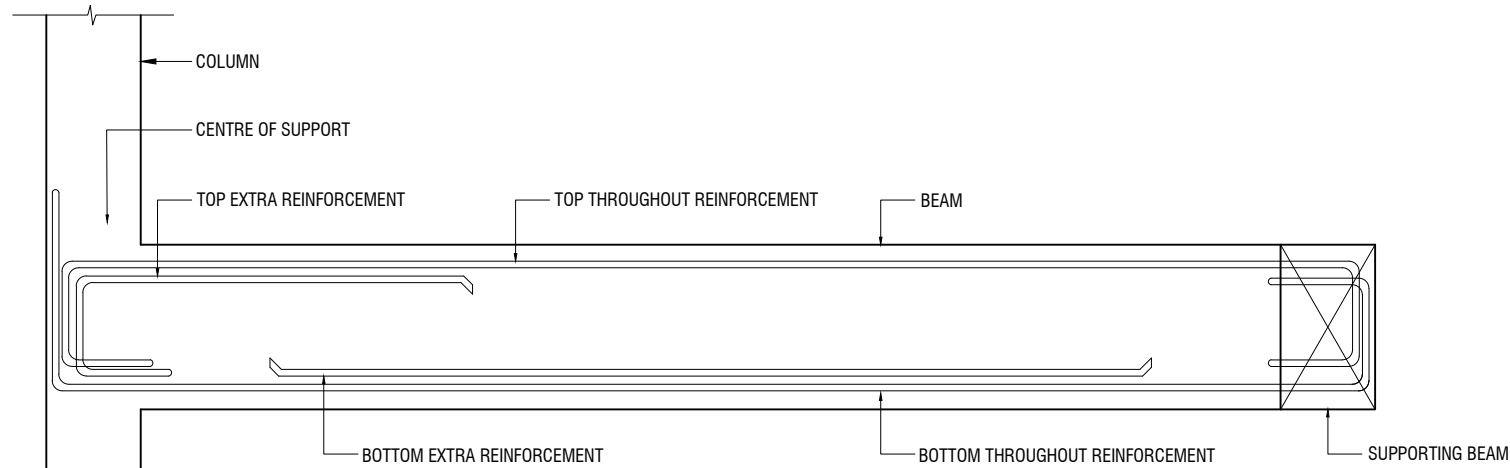
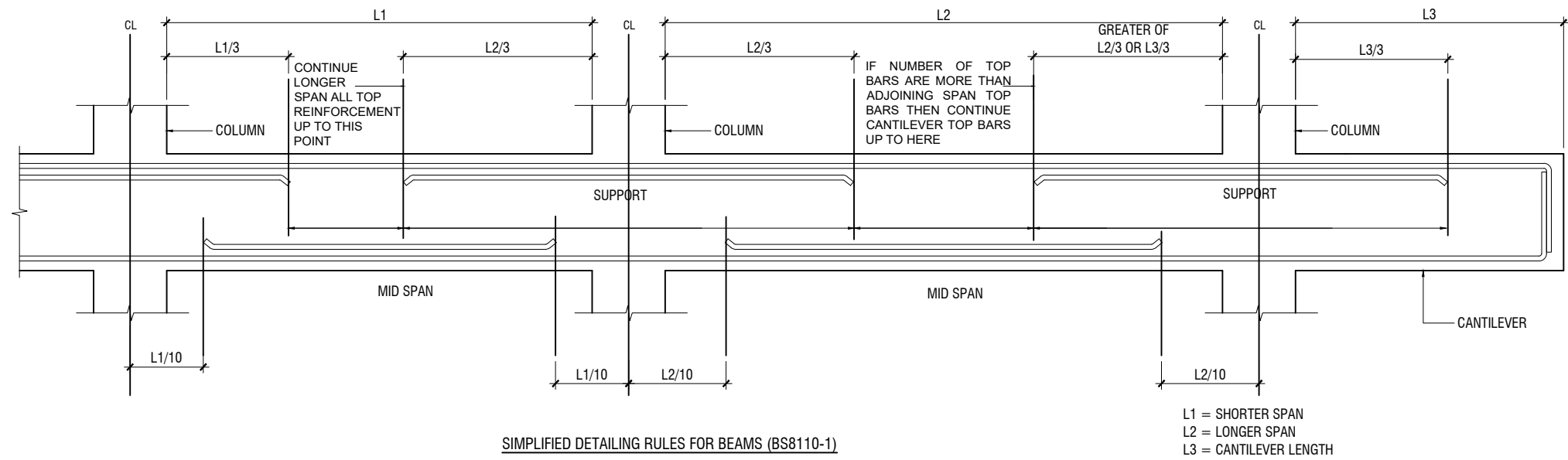
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Interior : -	--	-----



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

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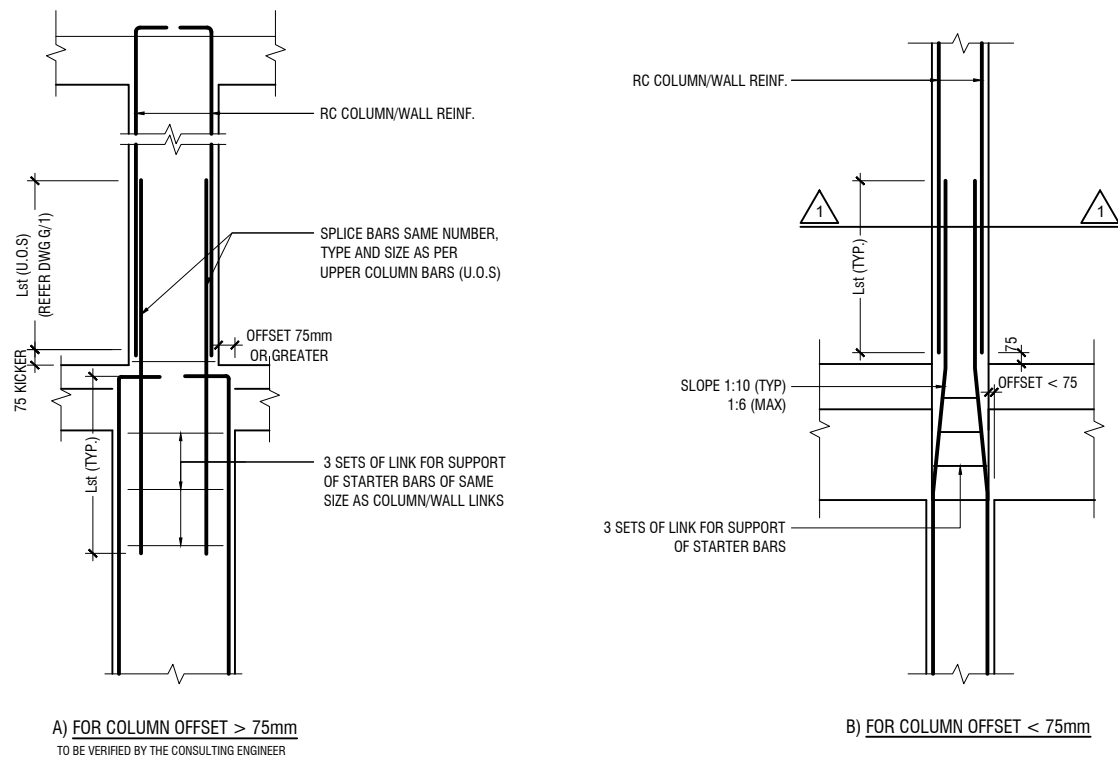


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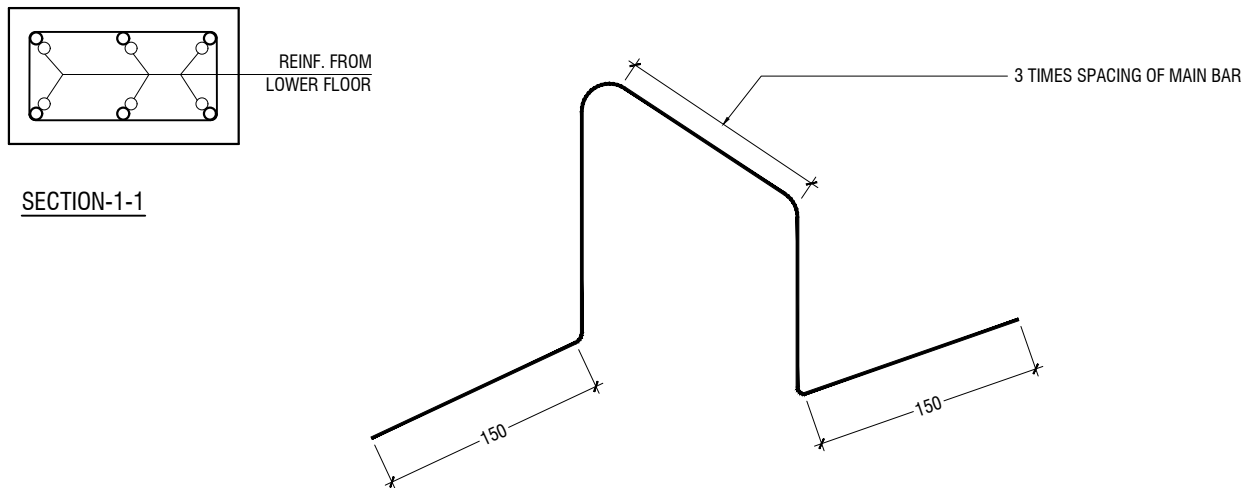
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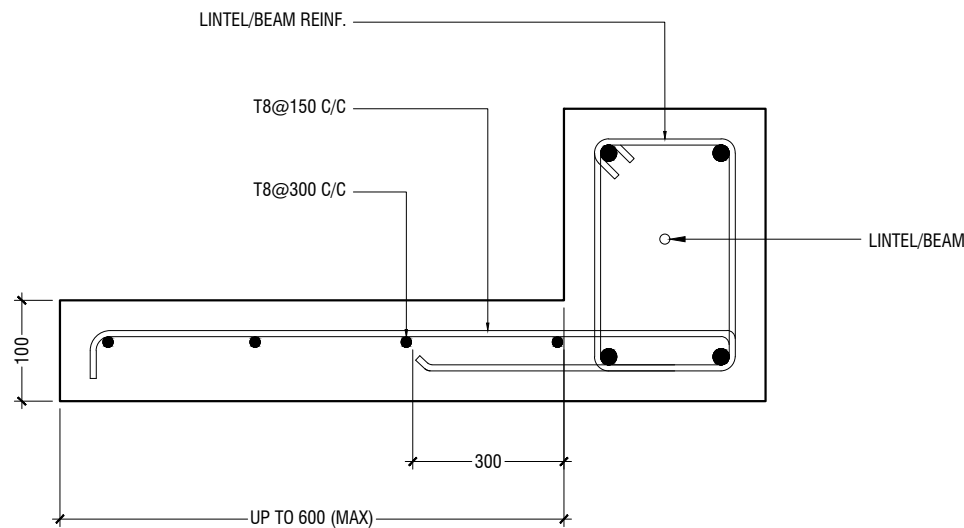
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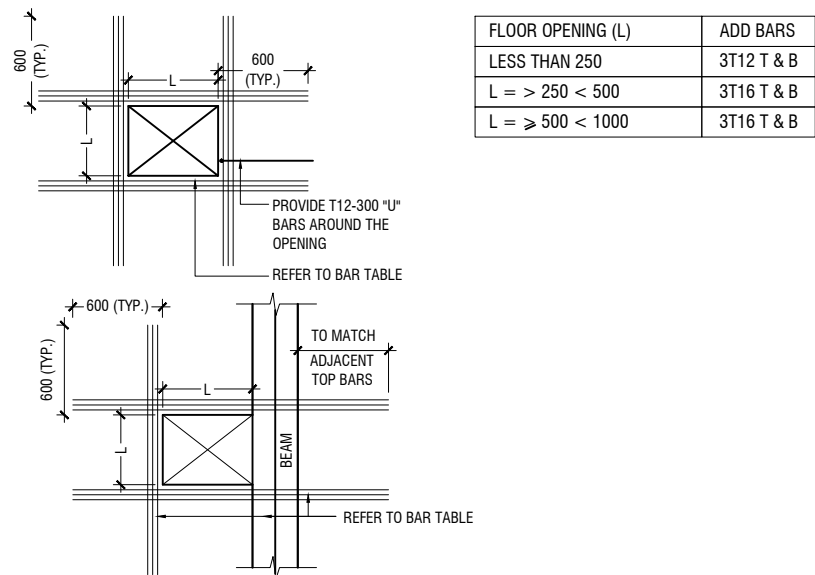
COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL



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

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FOUNDATION PADS

	DIMENSION	REINFORCEMENT
F1	1800 x 1800 x 300	T16@150 C/C B/W (8)
F2	1600 x 1600 300	T12@125 C/C B/W (8)
F3	1400 x 1400 x 300	T12@140 C/C B/W (8)
F4	1200 x 1200 x 300	T12@150 C/C B/W (8)
F5	1100 x 1100 x 300	T12@140 C/C B/W (8)
F6	750 x 750 x 300	T10@100 C/C B/W (8)

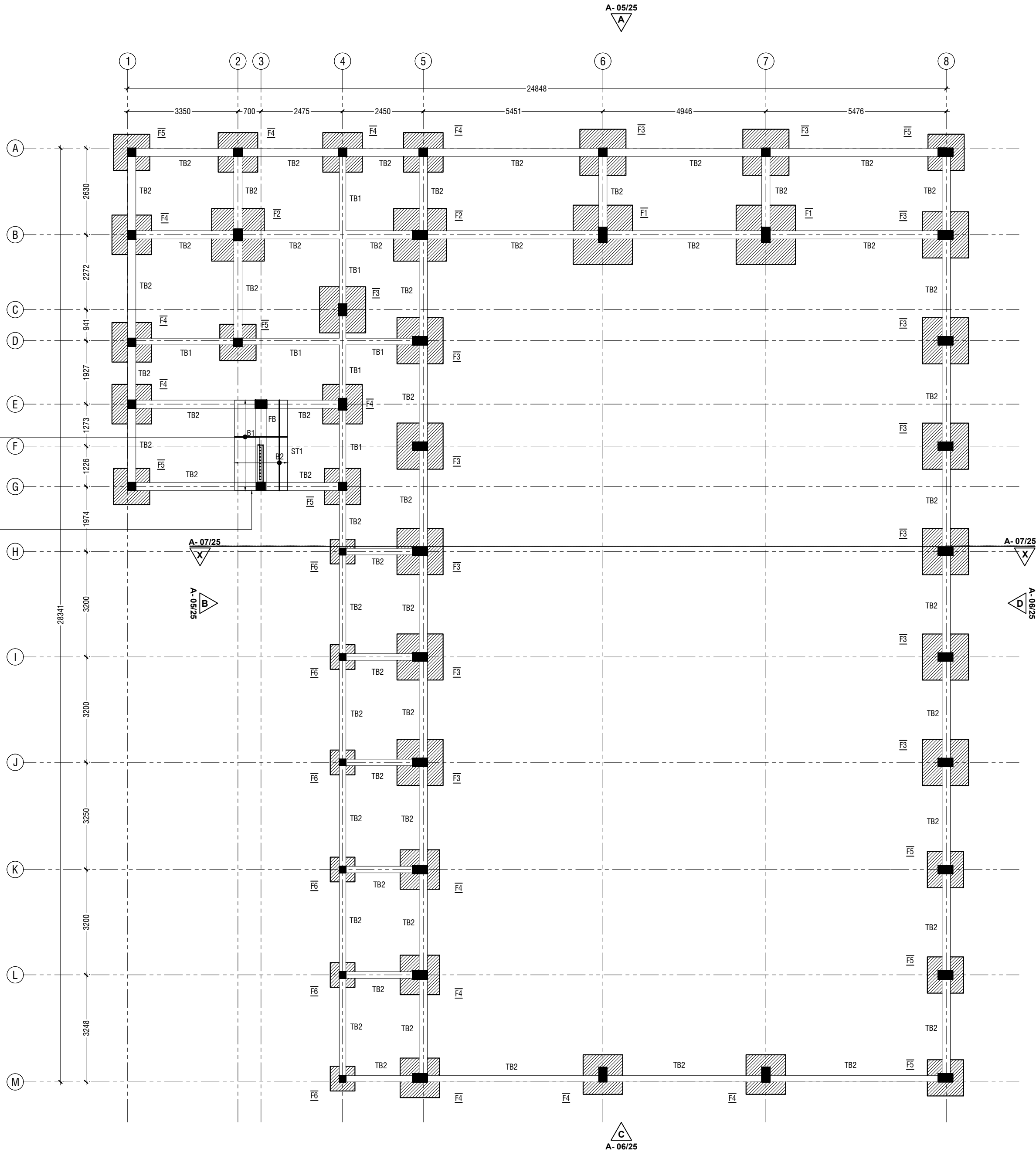
FOUNDATION LAYOUT

SCALE 1:100



Stair starter wall 200mm thick from FB (50mm cover).
150mm thick from NGL (30mm cover).
T12@100 C/C (2 Layers)

STRIP SLAB: 300MM
B1: T12@150 C/C
B2: T12@200 C/C
TOP REINFORCEMENT: T12@200 C/C B/W



NOTE:

FOUNDATION DEPTH : 1200mm BELOW GROUND LEVEL.

ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK
LEAN CONCRETE
APPLY WATER PROOFING TO SUBSTRUCTURE
(BELOW GROUND ELEMENTS)

TIE BEAM SIZES

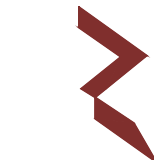
TB1 : 200 x 450 mm
TB2 : 200 x 45 mm
COVER : 50mm

GROUND SLAB : 100mm THK RC SLAB ON FILL
REINFORCED WITH T10@200 C/C BW

CONCRETE GRADE 30= MPa
-150mm THK. SOLID MASONRY BLOCK WALL.

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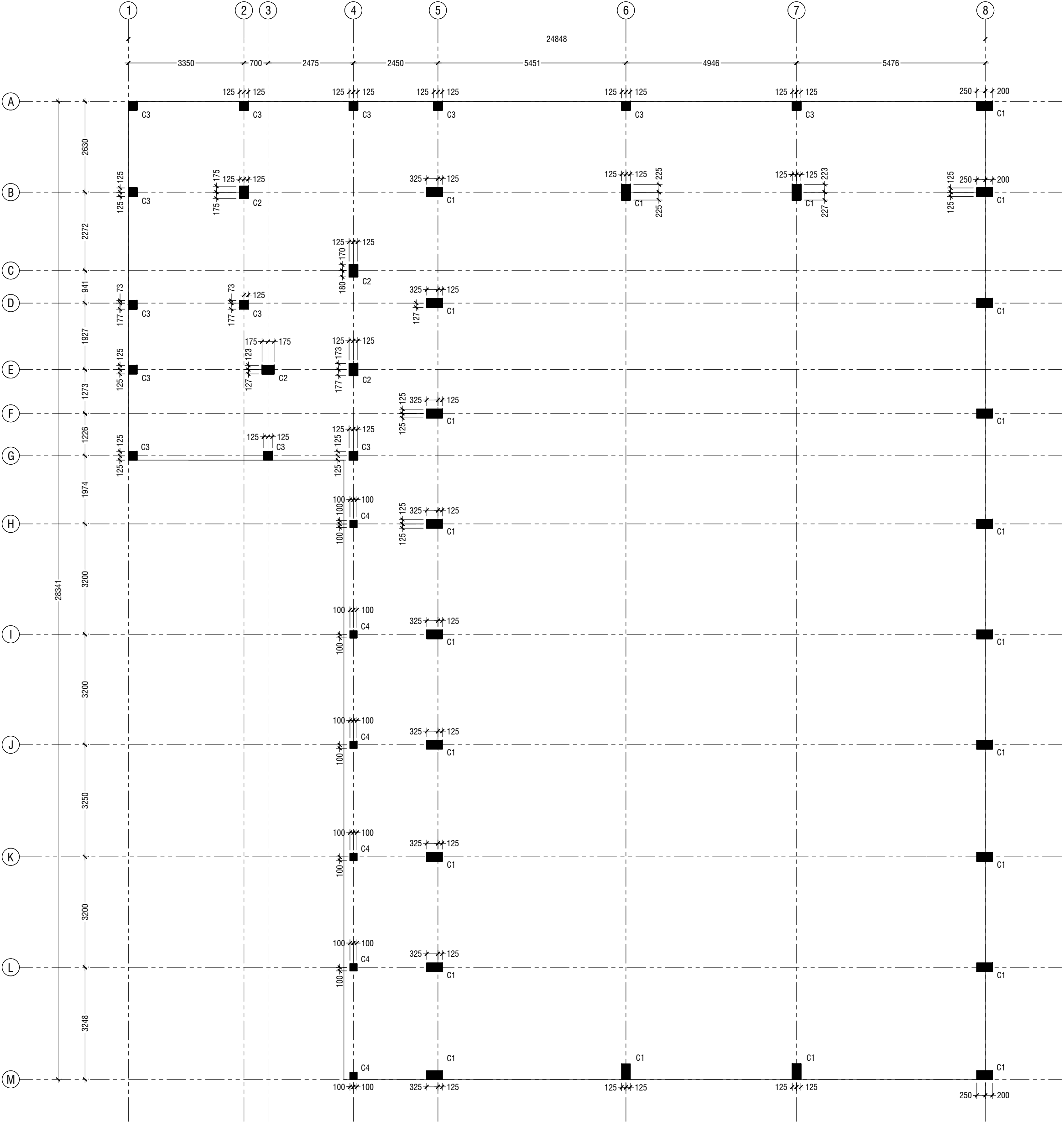
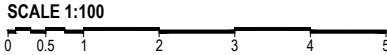
T : +9603370548 F : +9603370776
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Title: Foundation Layout

Page: S-01/13

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GROUND FLOOR COLUMN LAYOUT

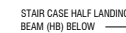


NOTE:

COLUMN SIZES

C1 : 250 x 450 mm
C2 : 250 x 350 mm
C3 : 250 x 250 mm
C4 : 200 x 200 mm

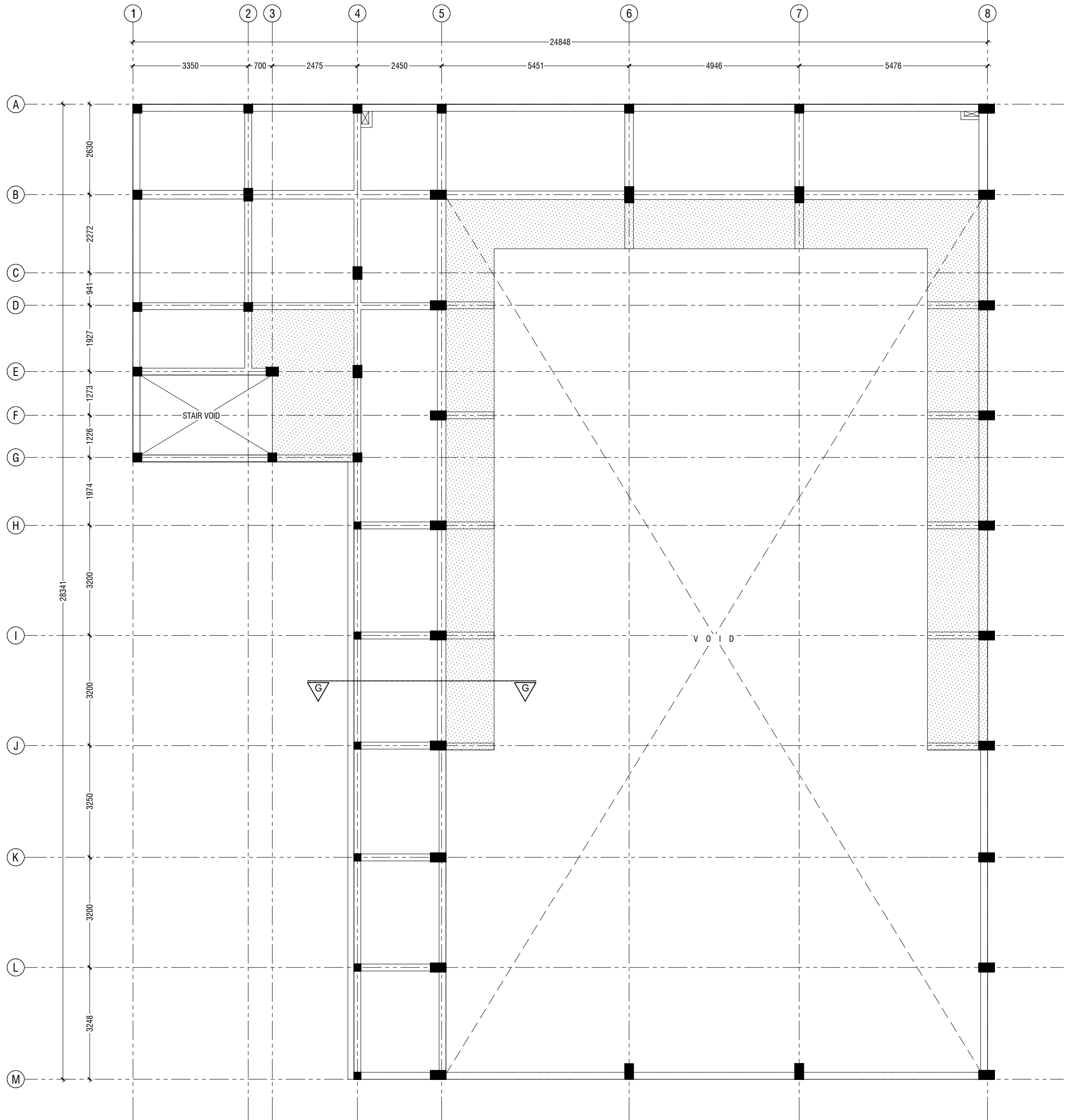
COVER - 40mm



BEAM SIZES	
B1	: 250x500 mm
B2	: 250x400 mm
B2A	: 250x400 mm
B3	: 200x400 mm
B4	: 200x400 mm
B5	: 200x450 mm
B6	: 250x450 mm
B7	: 200x450 mm
CB1	: 200x450 mm
RB1	: 200x350 mm
RB2	: 250x350 mm
RB3	: 300x350 mm
CRB	: 200x350 mm

CONCRETE GRADE 30 = MPa

A horizontal number line with arrows at both ends. It has major tick marks labeled 0, 0.5, 1, 2, 3, 4, and 5. There are also minor tick marks between the major ones: between 0 and 0.5, between 0.5 and 1, and between 1 and 2.



- NOTE**
- SLAB THICKNESS - 140mm
 - CAT WALK THICKNESS - 150mm
 - STAIRCASE JOINING SLAB (1ST FLOOR) - 150mm

SLAB THICKNESS, EXCEPT FOR CAT WALK = 140 mm

BOTTOM REINFORCEMENT - T10@150 C/C BW (NOT SHOWN, UNLESS STATED)

TOP REINFORCEMENT - (T10@150 C/C, UNLESS STATED) REINFORCEMENT

DISCONTINUOUS AT VOIDS

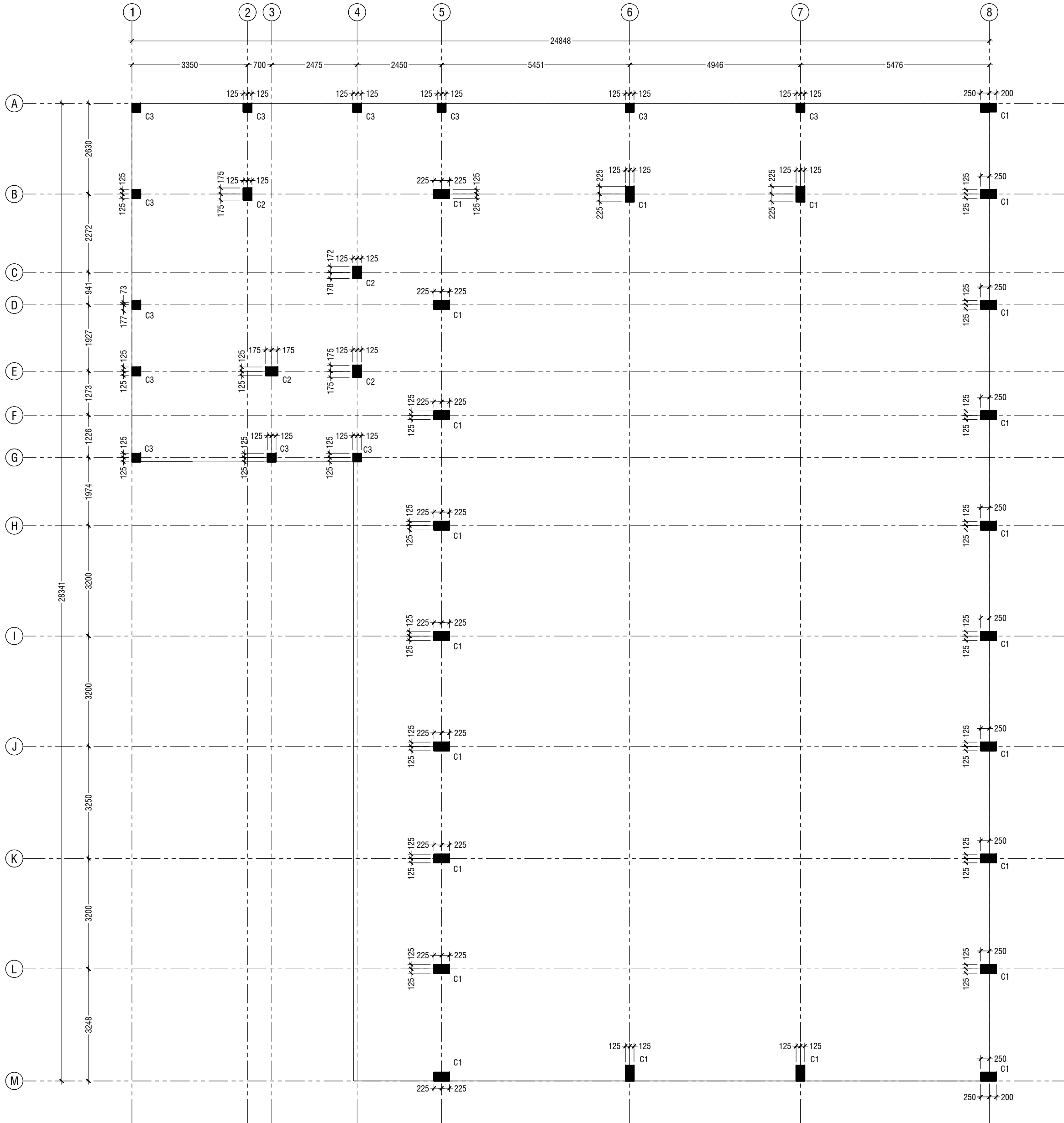
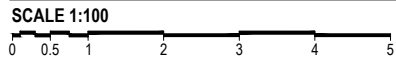
HALF LANDING SLAB - 150mm T10@150 C/C B/W T&B

FIRST FLOOR SLAB REINFORCEMENT LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

FIRST FLOOR COLUMN LAYOUT



NOTE:

- COLUMN SIZES**
- C1 : 250 x 450 mm
 - C2 : 250 x 350 mm
 - C3 : 250 x 250 mm
 - C4 : 200 x 200 mm

COVER - 40mm

Ga Kolamaafushi School Hall
Client: Ministry of Education

Rev no	Date
1	2022/06
2	2022/06
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99	2022/06
100	2022/06

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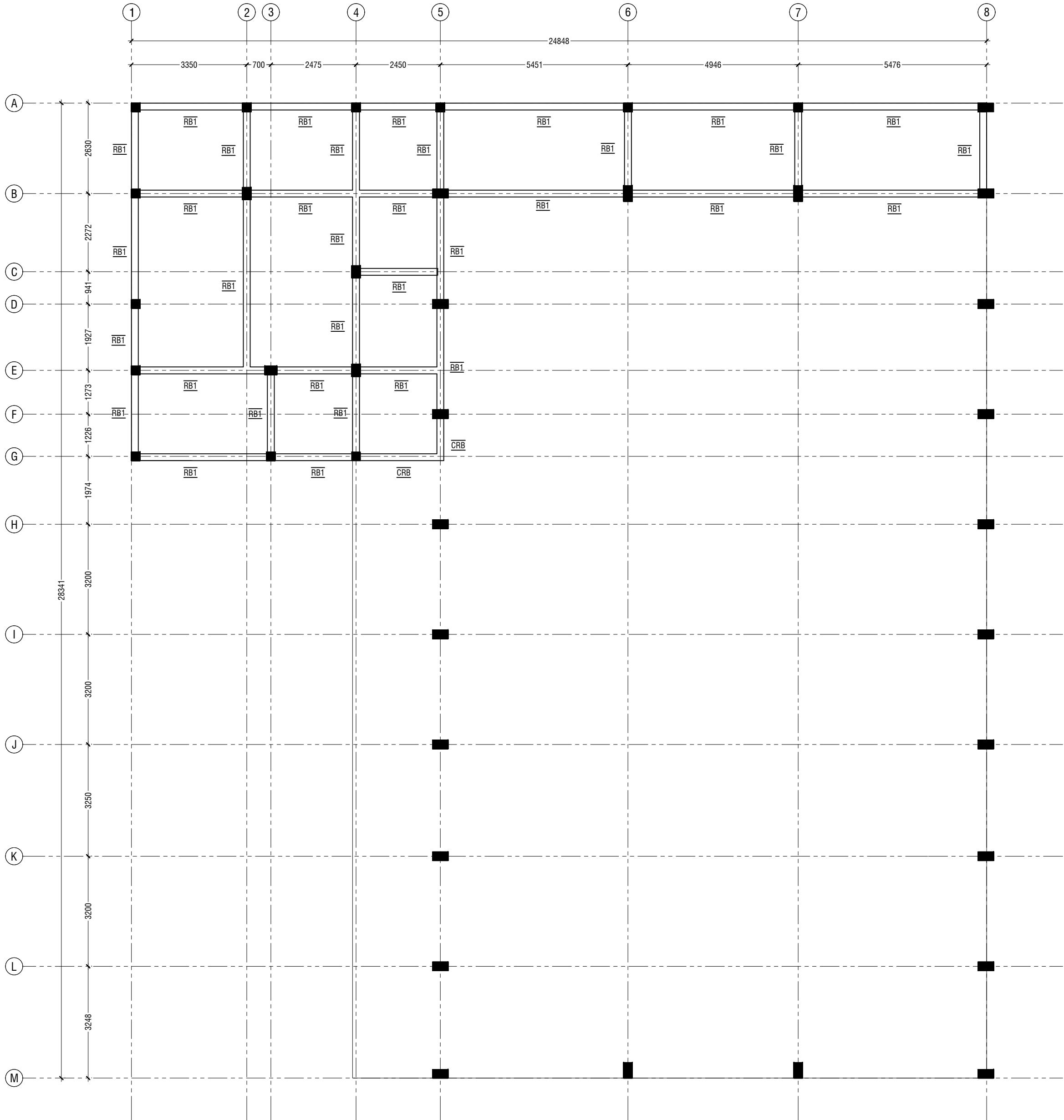
Title: First Floor Column Layout

Page: S-05/13

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ROOF BEAM - 1 LAYOUT

SCALE 1:100



NOTE:

BEAM SIZES

B1	: 250x500 mm
B2	: 250x400 mm
B2A	: 250x400 mm
B3	: 200x400 mm
B4	: 200x400 mm
B5	: 200x450 mm
B6	: 250x450 mm
B7	: 200x450 mm
CB1	: 200x450 mm
RB1	: 200x350 mm
RB2	: 250x350 mm
RB3	: 300x350 mm
CRB	: 200x350 mm

CONCRETE GRADE 30 = MPa

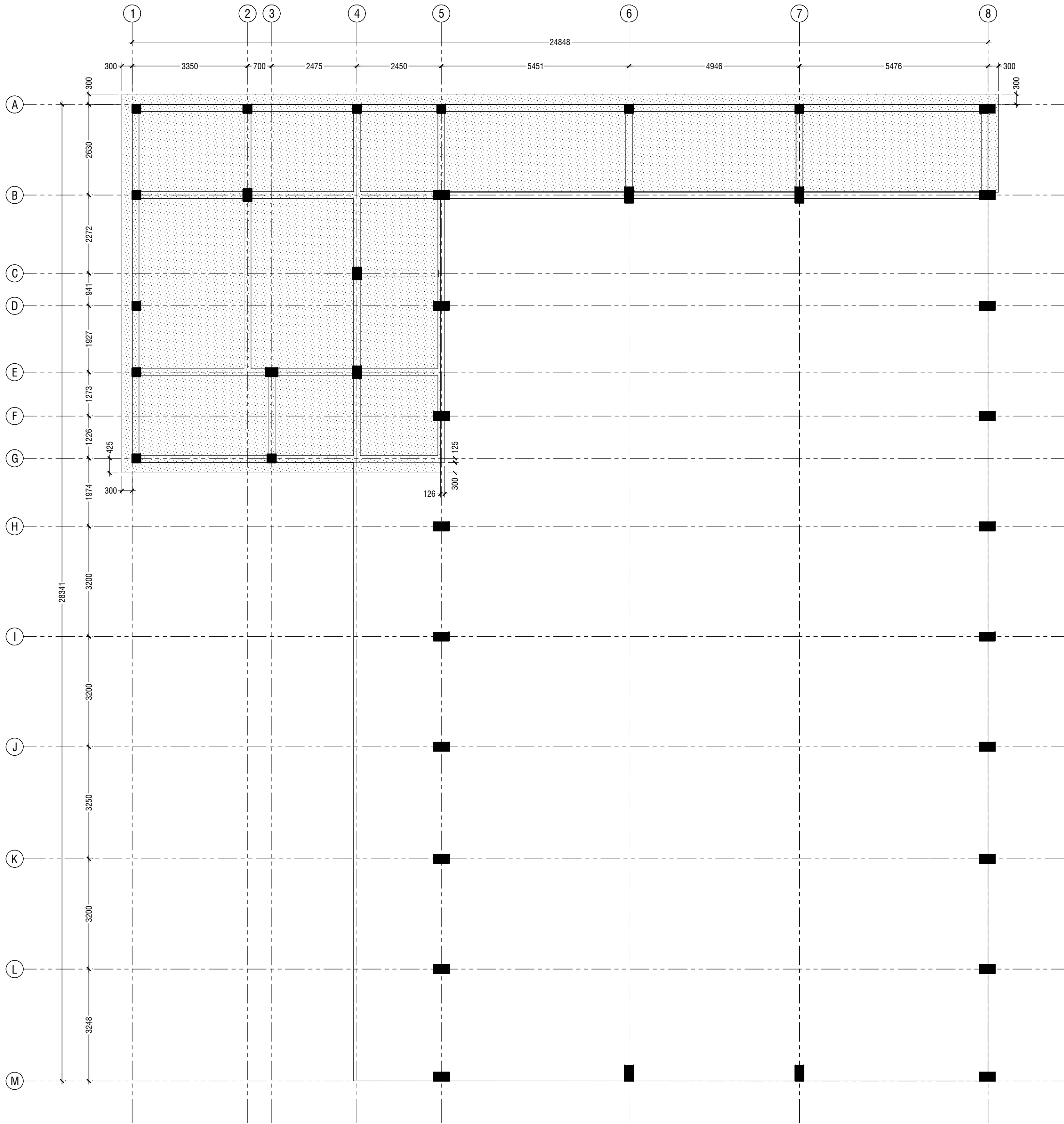
Ga Kolamaafushi School Hall
Client: Ministry of Education

Rev no	Date
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100	2022/06

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Title: Roof Beam - 1
Layout
Page: S-06/13

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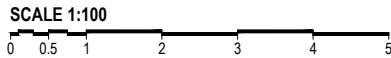


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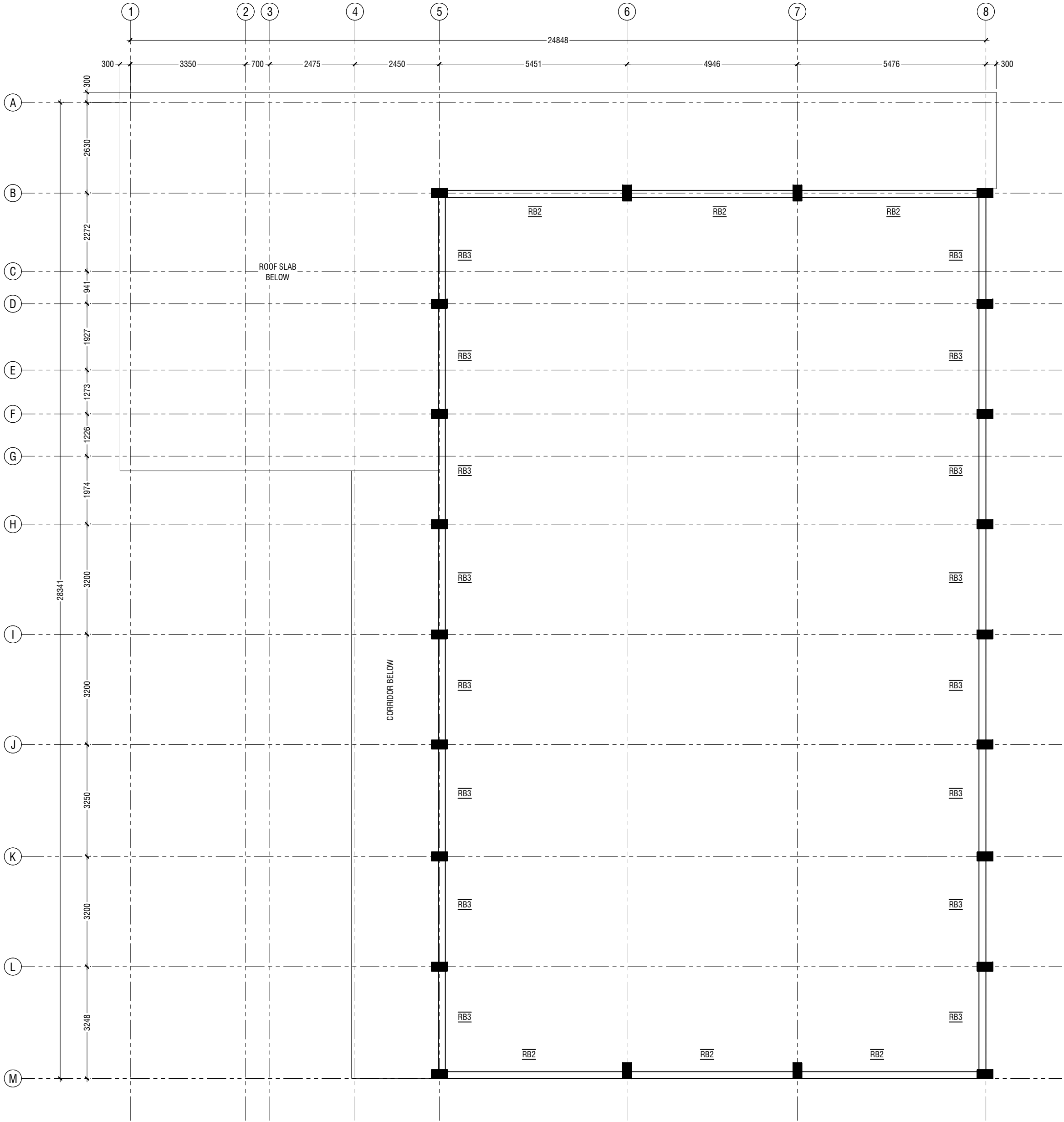
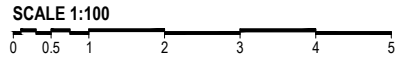
ROOF SLAB THICKNESS - 140mm

BOTTOM REINFORCEMENT - T10@150 C/C BW (NOT SHOWN, UNLESS STATED)
TOP REINFORCEMENT - (T10@150 C/C, UNLESS STATED) REINFORCEMENT HALF

FIRST FLOOR ROOF SLAB REINFORCEMENT LAYOUT



ROOF BEAM - 2 LAYOUT



NOTE:

BEAM SIZES

B1	: 250x500 mm
B2	: 250x400 mm
B2A	: 250x400 mm
B3	: 200x400 mm
B4	: 200x400 mm
B5	: 200x450 mm
B6	: 250x450 mm
B7	: 200x450 mm
CB1	: 200x450 mm
RB1	: 200x350 mm
RB2	: 250x350 mm
RB3	: 300x350 mm
CRB	: 200x350 mm

CONCRETE GRADE 30 = MPa

Ga Kolamaafushi School Hall
Client: Ministry of Education

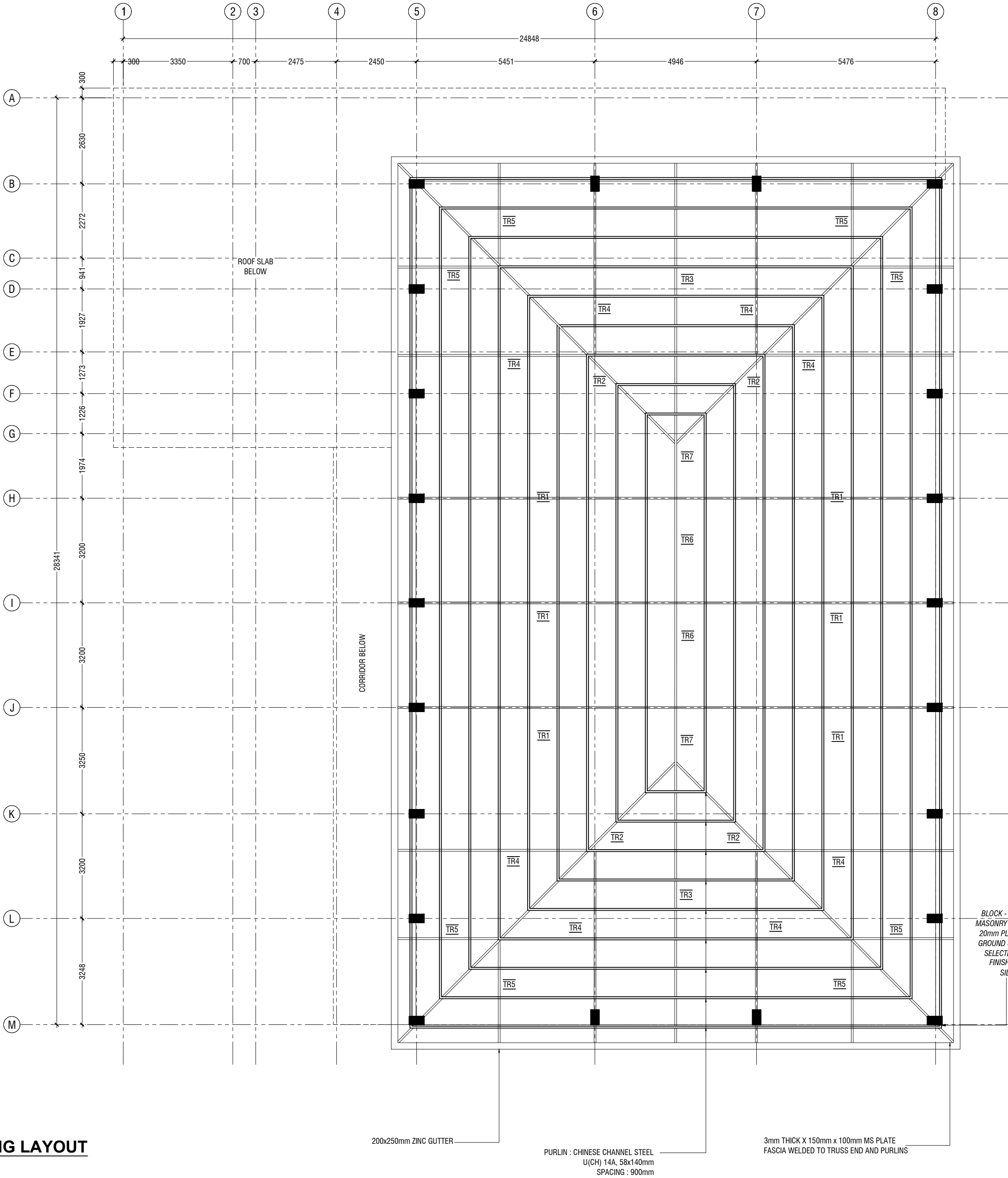
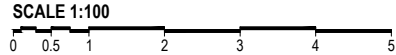
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Title: Roof Beam - 2
Layout
Page: S-09/13

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ROOF TRUSS & FRAMING LAYOUT



Ga Kolamaafushi School Hall
Client: Ministry of Education

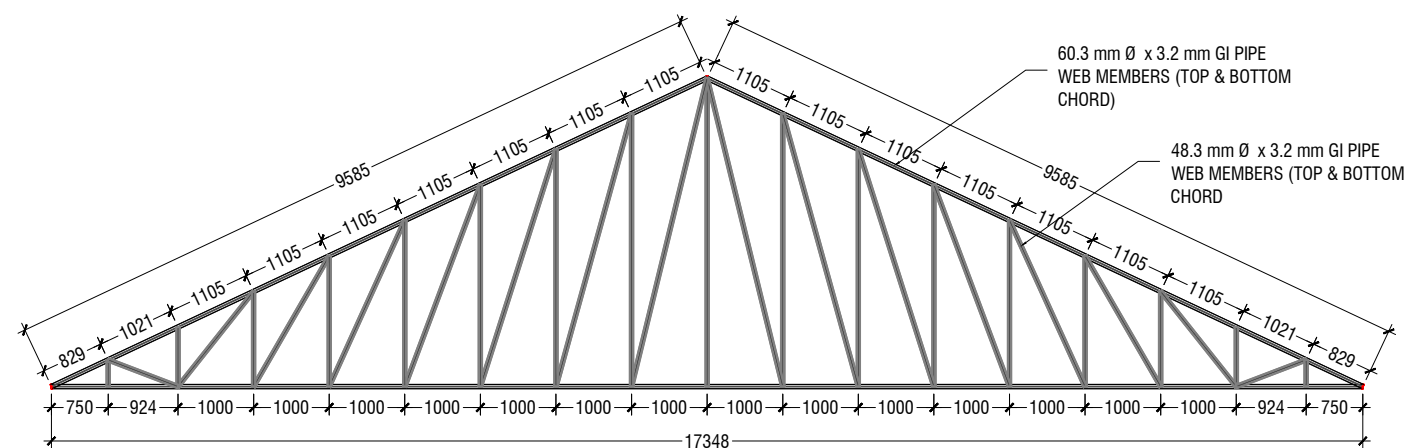
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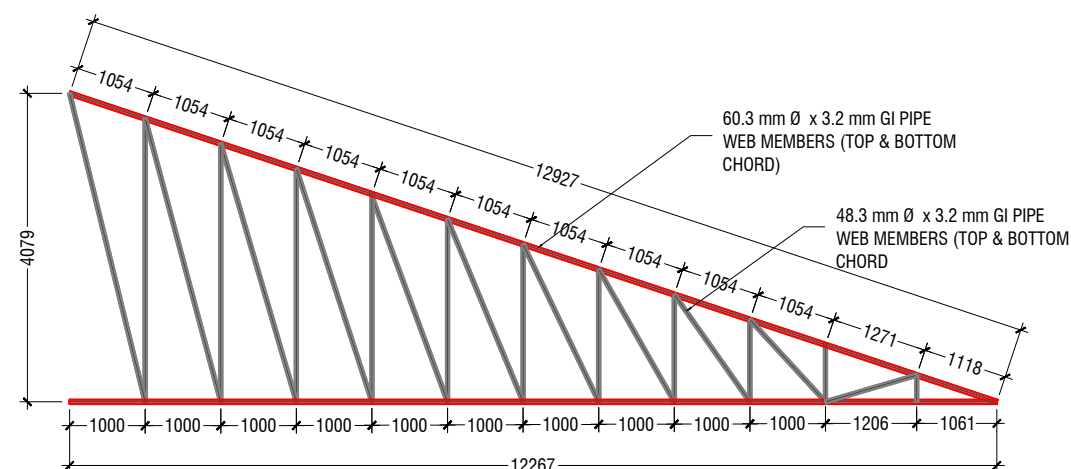
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Title: Roof Truss & Framing Layout
Page: S-10/13

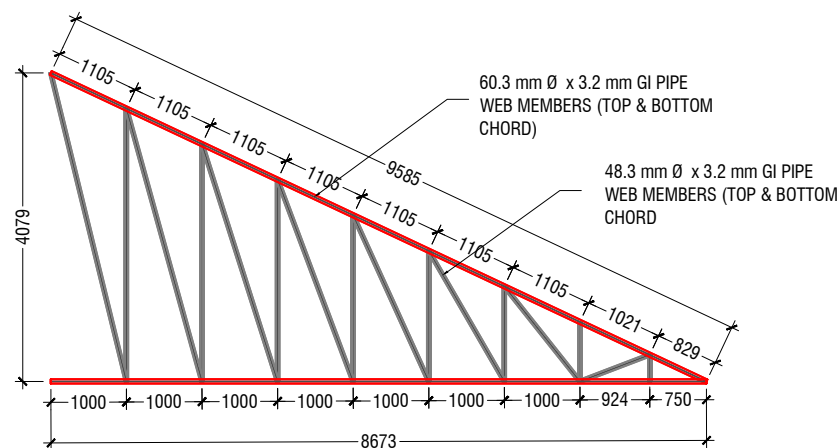
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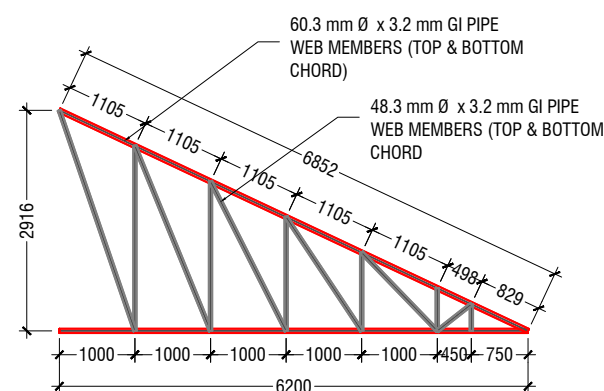
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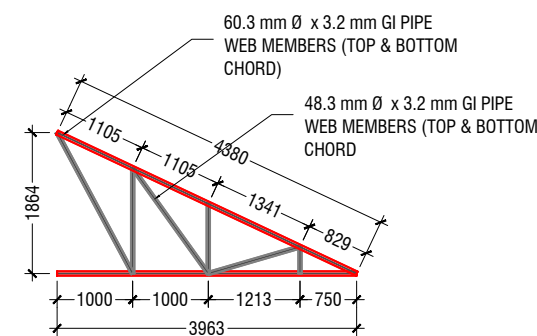
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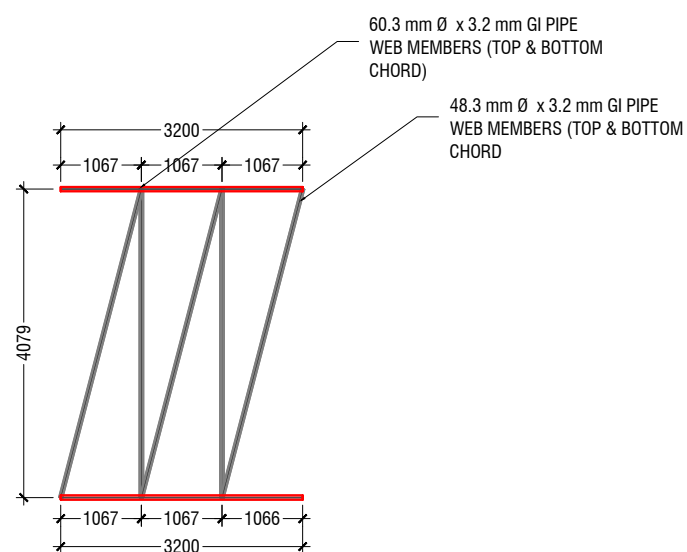
TRUSS TYPE TR3



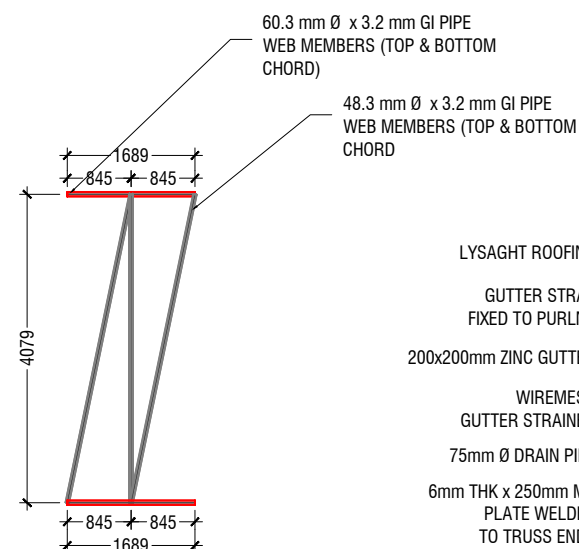
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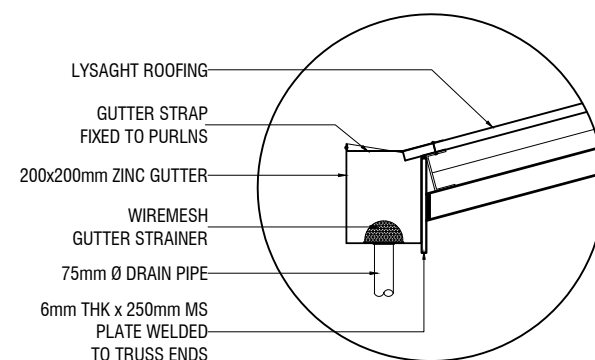
TRUSS TYPE TR5



TRUSS TRYPE TR6

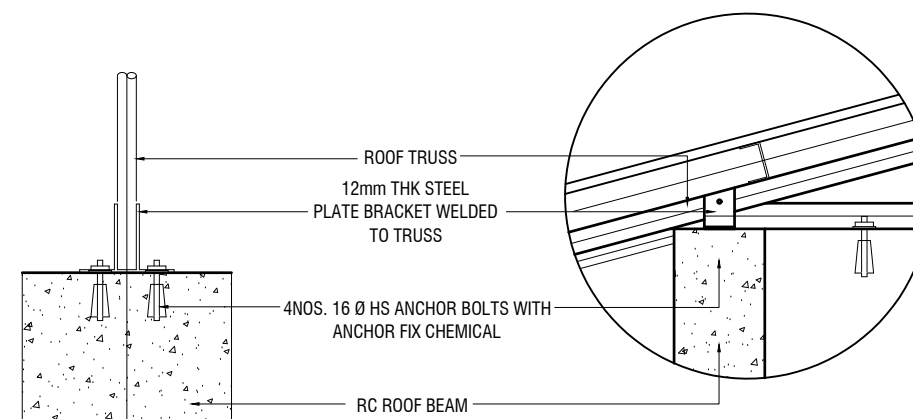


TRUSS TRYPE TR7



GUTTER/FASCIA DETAIL

SCALE 1:20



ELEVATION

SCALE 1:20

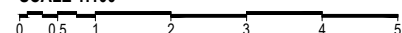
SECTION

SCALE 1:20

NOTE
CORROSION PROTECTION: GALVANIZED COATING THICKNESS SHALL NOT BE LESS THAN 80 MICRONS
ALL FILLET WELDS TO BE 4mm THICK
CONTRACTOR AND CONSULTANT TO CONFIRM ON SITE
TRUSS SPAN AND DIMENSIONS BEFORE FABRICATION

ROOF TRUSS DETAILS

SCALE 1:100



TYPICAL TRUSS FIXING DETAILS

SCALE 1:20



Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number: RI/2020/006
 Date: May 2021
 Architect : Mariyam Irasha Shareef
 Engineer : Mohamed Muthalib Waleed
 Drawn by : Mohamed Yasbiq Ismail
 Services : Jose Julius Alzate & Jeffery Caballo
 Interior : -

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Title: Roof Truss Details

Page: S-11/13

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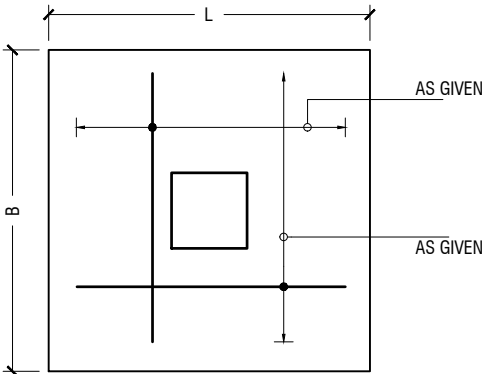
FOUNDATION PADS

	DIMENSION	REINFORCEMENT (L x B x D)
F1	1800 x 1800 x 300	T16@150 C/C B/W (B)
F2	1600 x 1600 300	T12@125 C/C B/W (B)
F3	1400 x 1400 x 300	T12@140 C/C B/W (B)
F4	1200 x 1200 x 300	T12@150 C/C B/W (B)
F5	1100 x 1100 x 300	T12@140 C/C B/W (B)
F6	750 x 750 x 300	T10@100 C/C B/W (B)

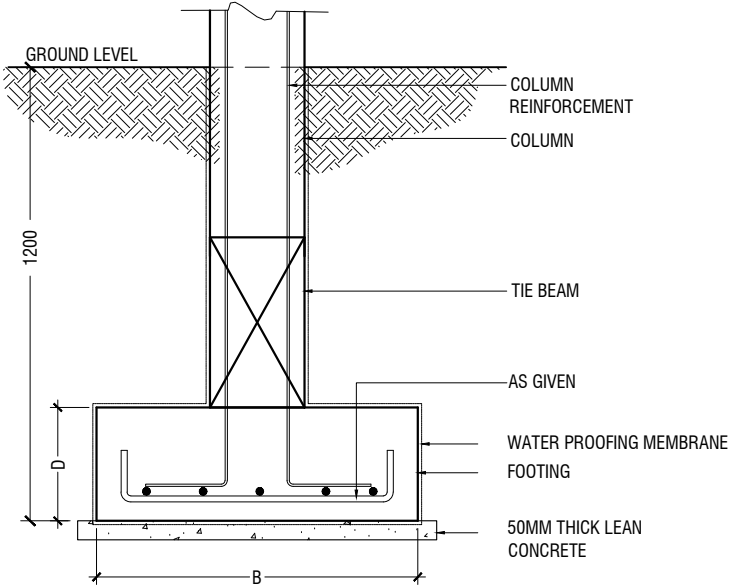
FOUNDATION DEPTH = 1200mm

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 30= MPa

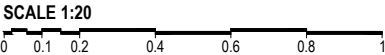


PLAN

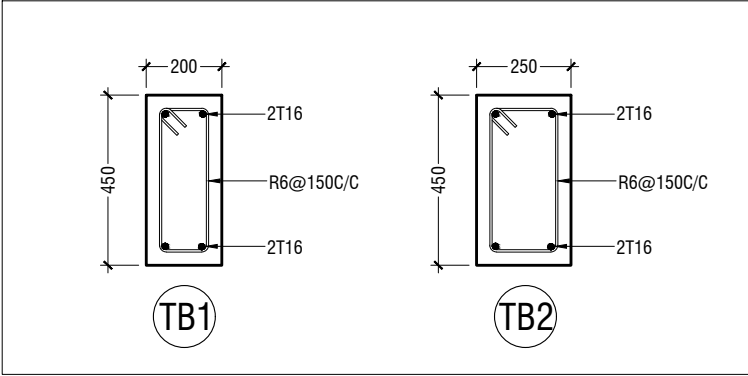


SECTION
FOOTING DETAILS

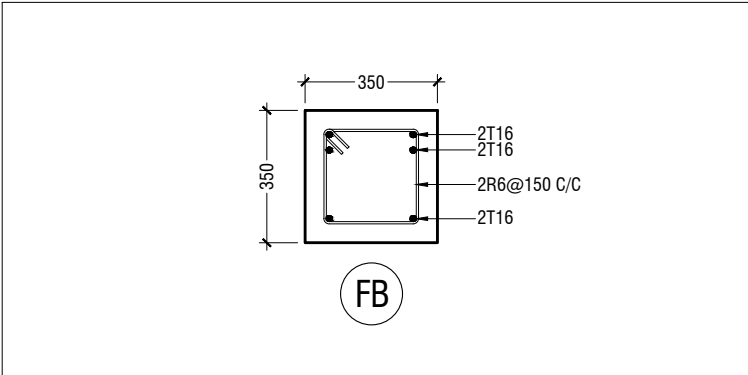
STRUCTURAL DETAILS - 1



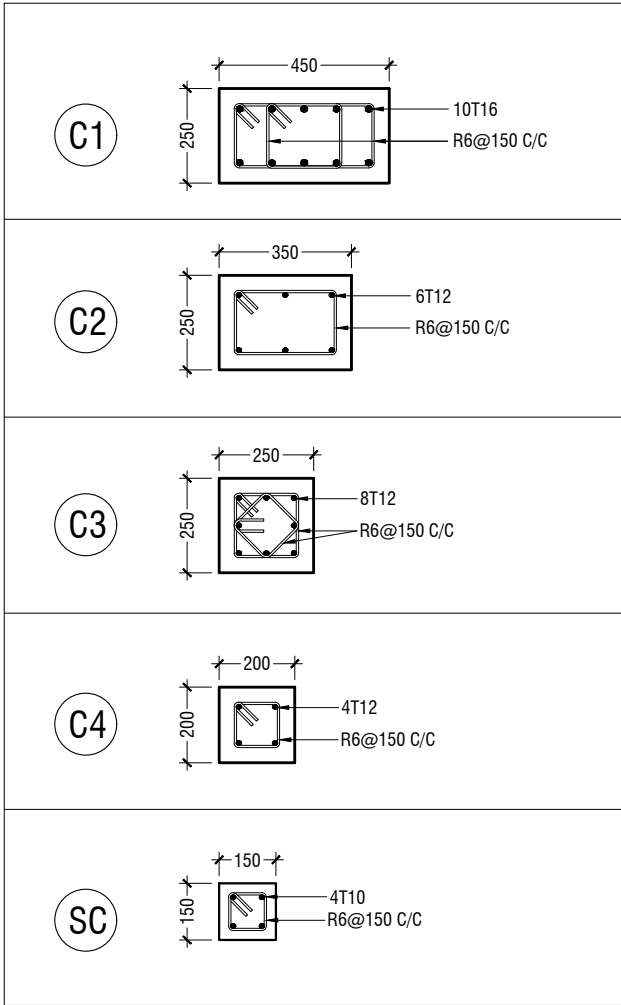
TIE BEAM DETAILS



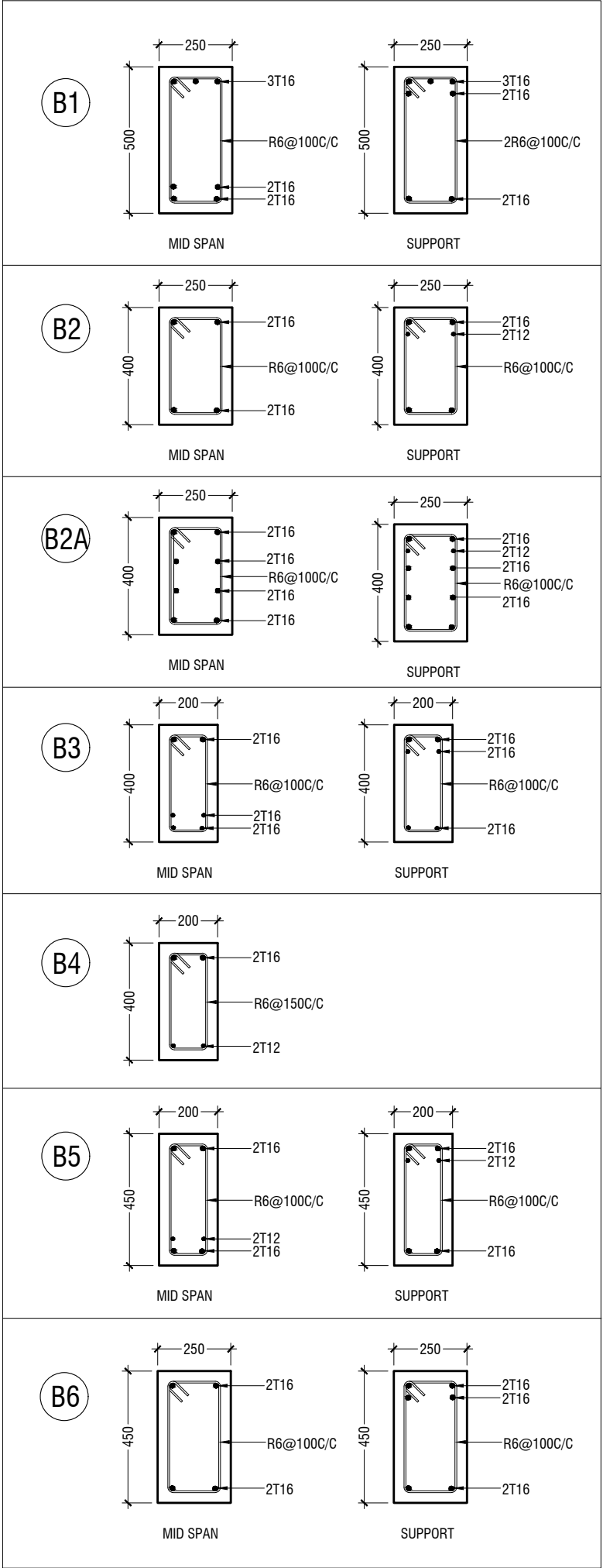
FOUNDATION BEAM DETAILS



COLUMN DETAILS



BEAM DETAILS



Ga.Kolamaafushi School Hall
Client: Ministry of Education

Project Number	Rev no	Date
R/2020/006	--	-----
Date: May 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muthalib Waleed	--	-----
Drawn by : Mohamed Yasbiq Ismail	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----



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e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

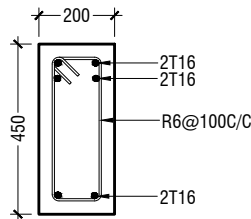
Title: Structural Details

Page: S-12/13

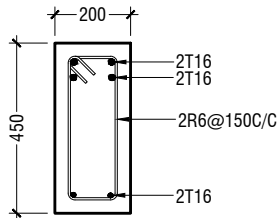
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BEAM DETAILS

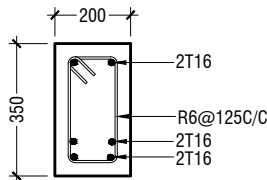
B7



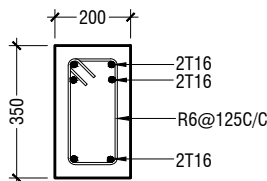
CB1



RB1

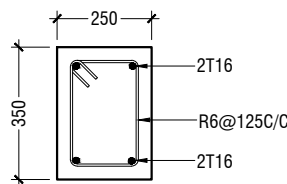


MID SPAN

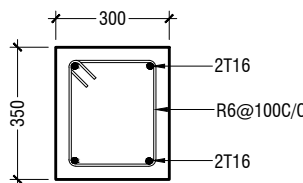


SUPPORT

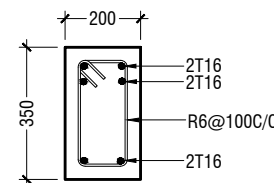
RB2



RB3



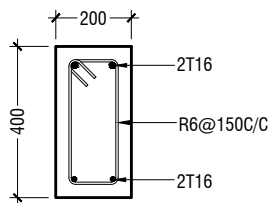
CRB



CANTILEVER ROOF BEAM

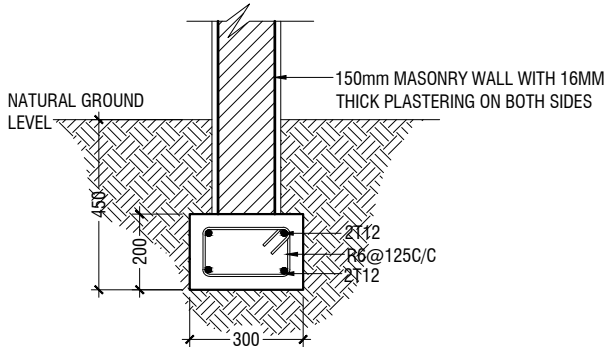
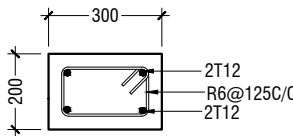
HALF LANDING BEAM DETAILS

HB

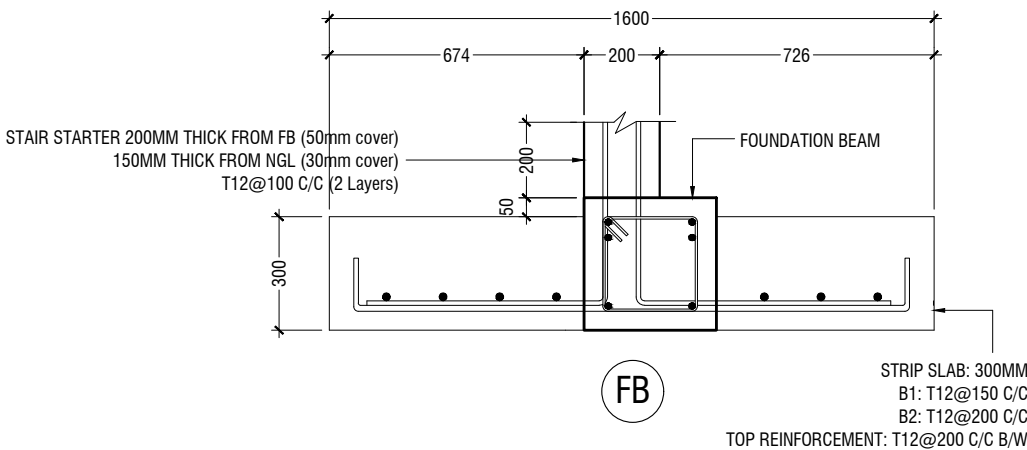


WALL FOOTING DETAIL

WF

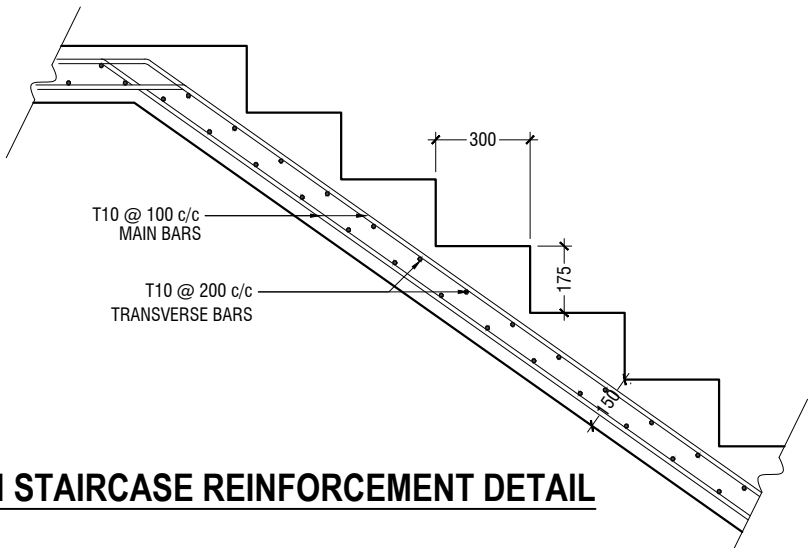


WALL FOOTING SECTION

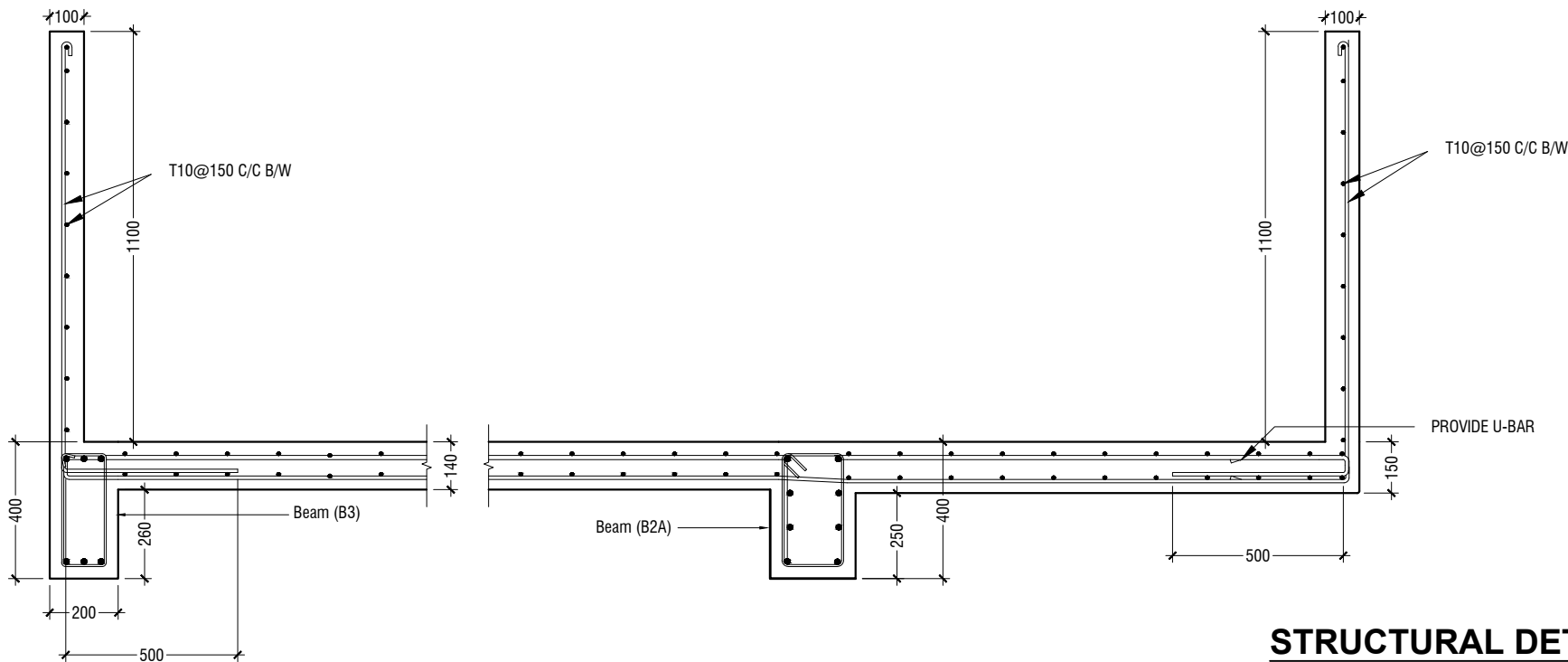


STRIP SLAB & FOUNDATION BEAM DETAIL

MAIN STAIRCASE REINFORCEMENT DETAIL



SECTION D-D
FIRST FLOOR SLAB REINFORCEMENT CONNECTION DETAIL



STRUCTURAL DETAILS - 2

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1

Ga.Kolamaafushi School Hall
Client: Ministry of Education

Rev no	Date
1	May 2021
2	May 2021
3	May 2021
4	May 2021
5	May 2021
6	May 2021
7	May 2021
8	May 2021
9	May 2021
10	May 2021



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

Title: Structural Details

Page: S-13/13

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