

Proposed Multipurpose Hall Building at  
GDh.Gadhoo School

*ARCHITECTURAL & STRUCTURAL DRAWINGS*

Client: Ministry of Education

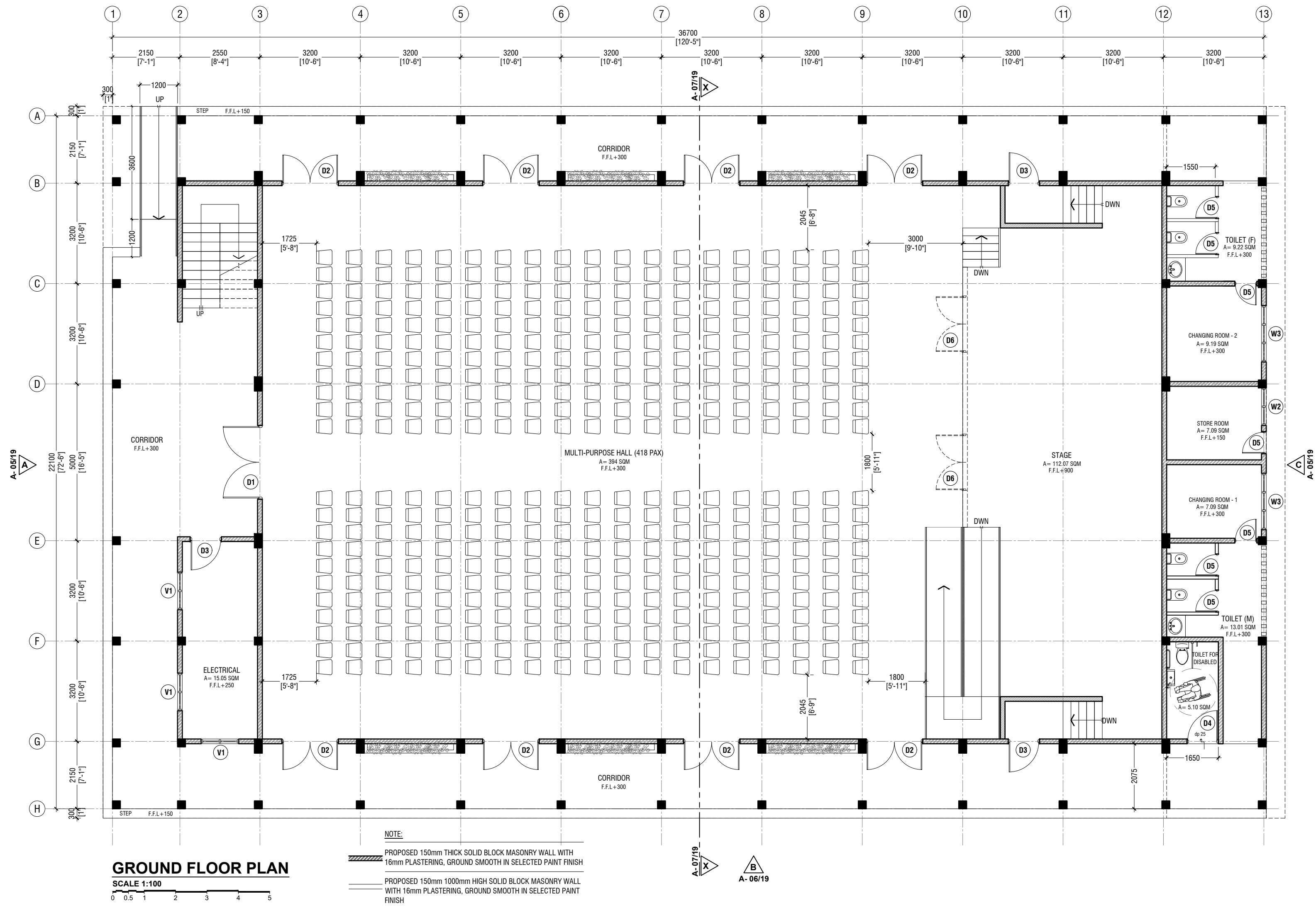


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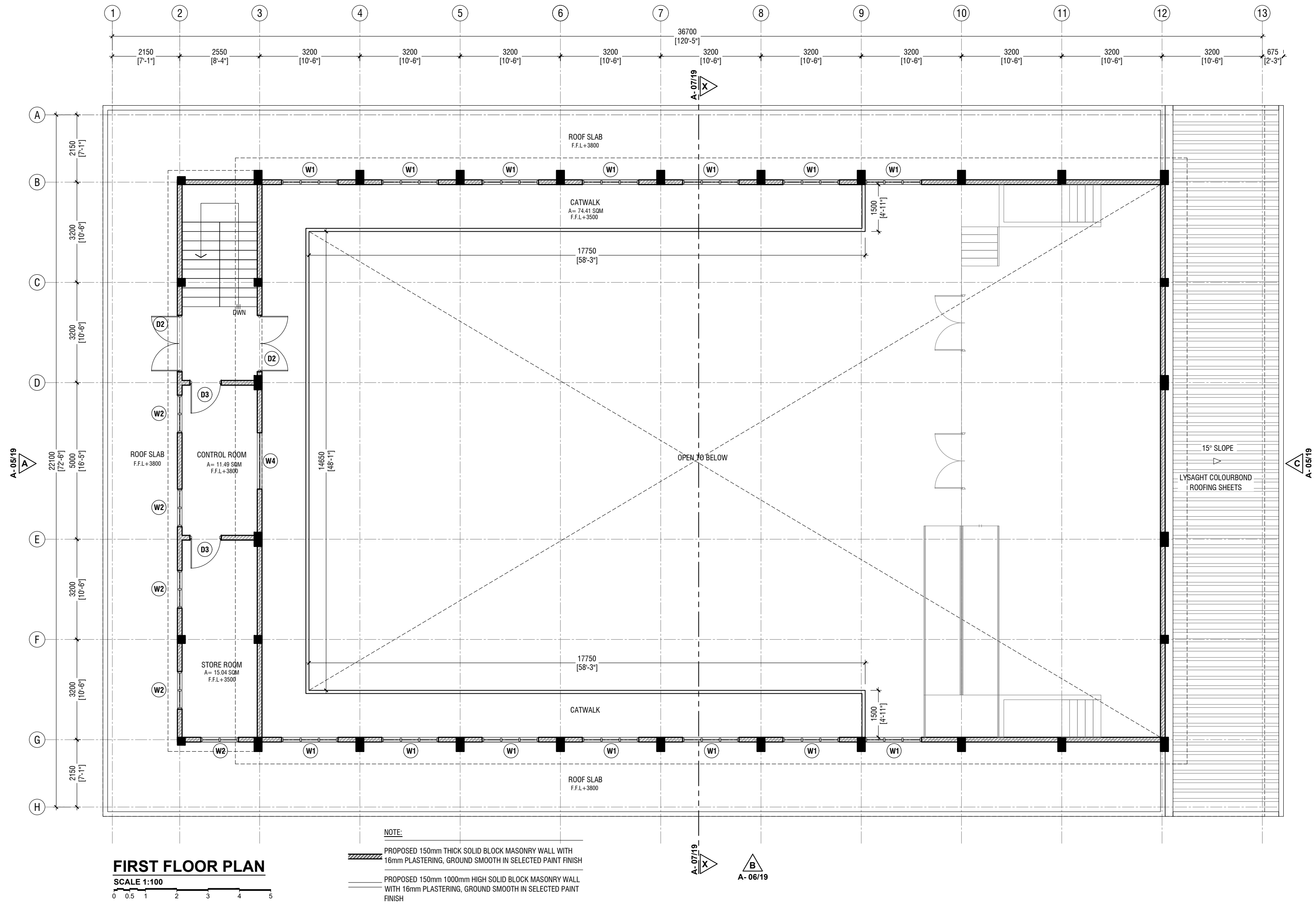
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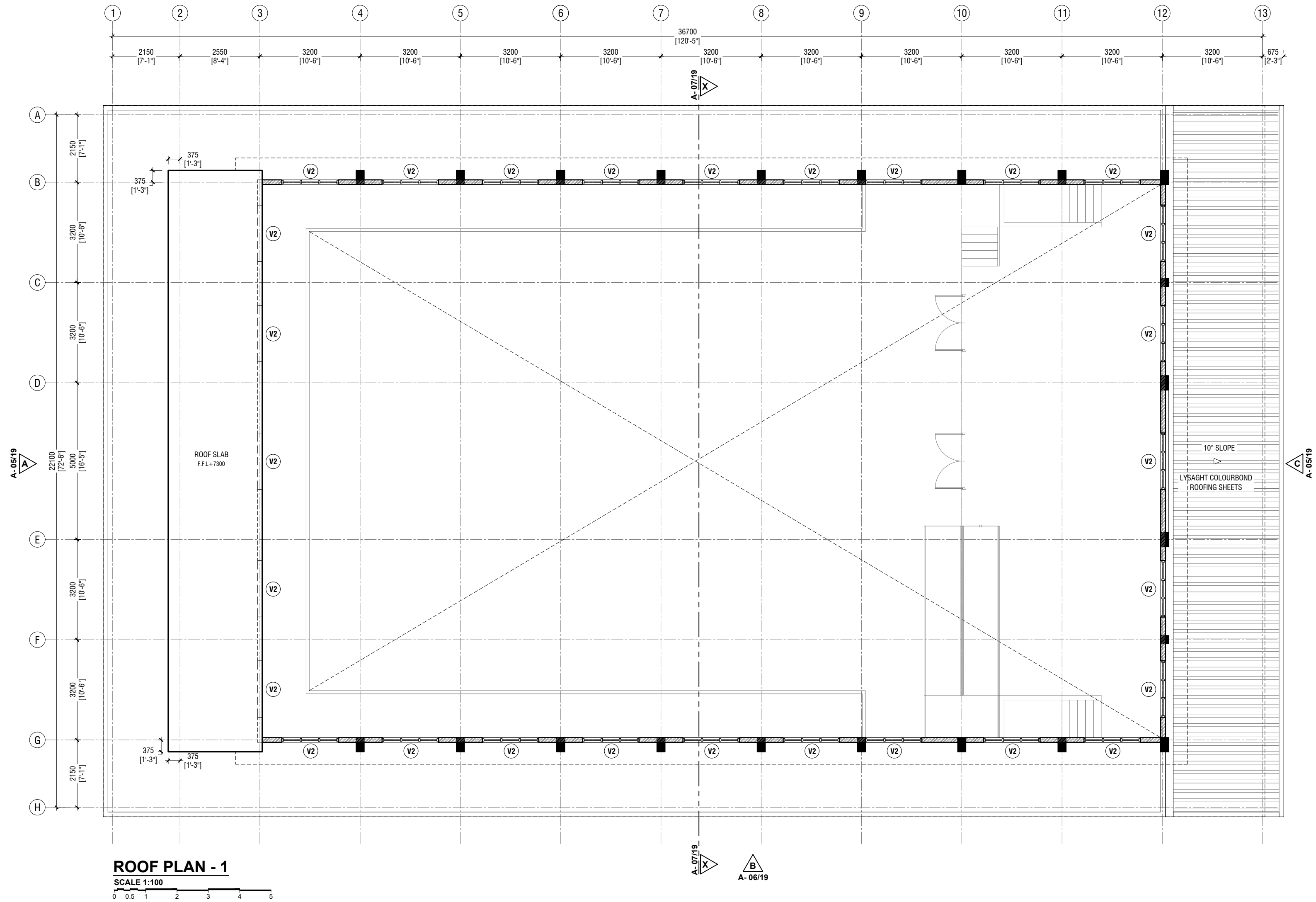
GDh Gadhoo School Hall  
Client: Ministry of Education

Rev no	Date
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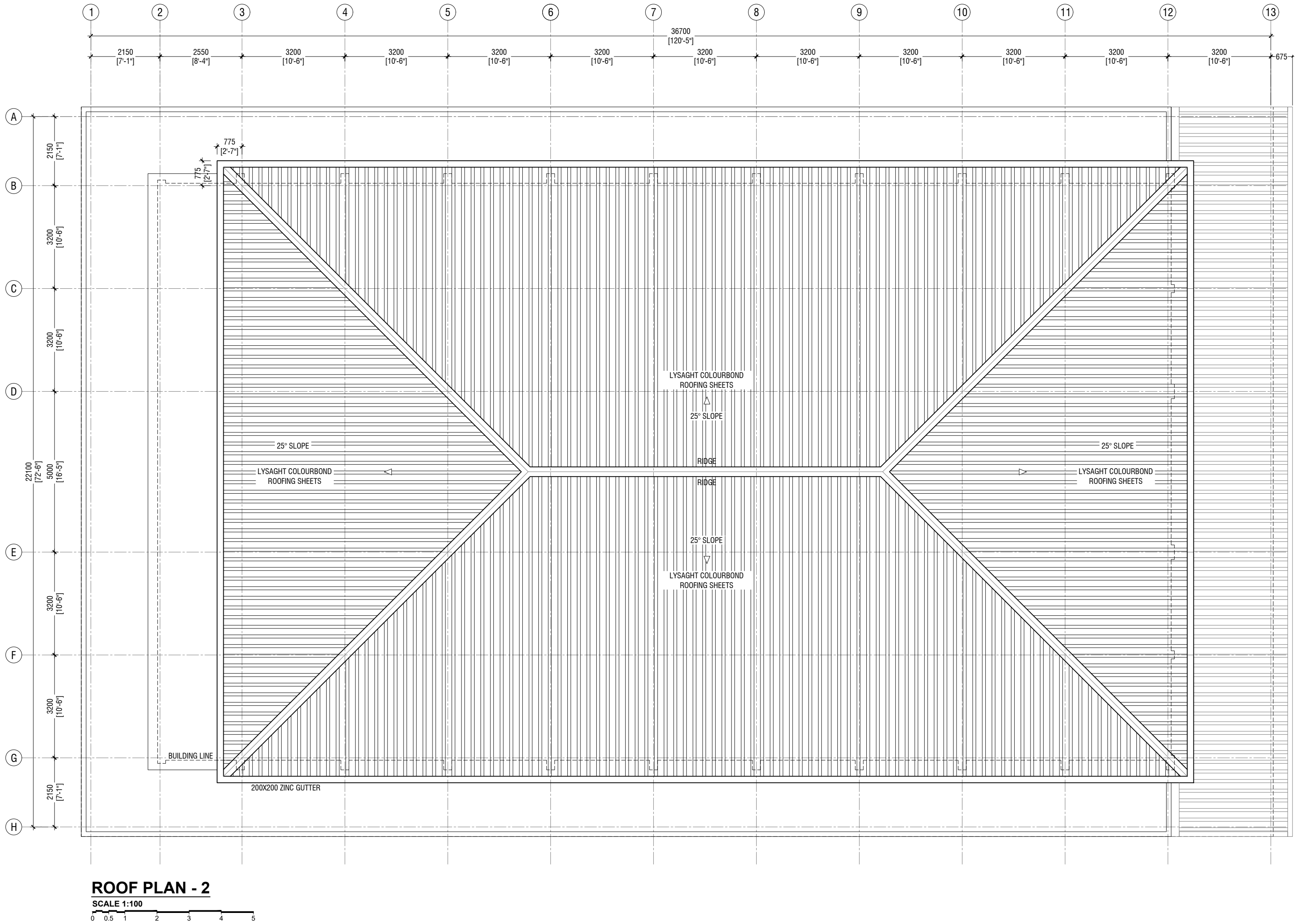
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Client: Ministry of Education

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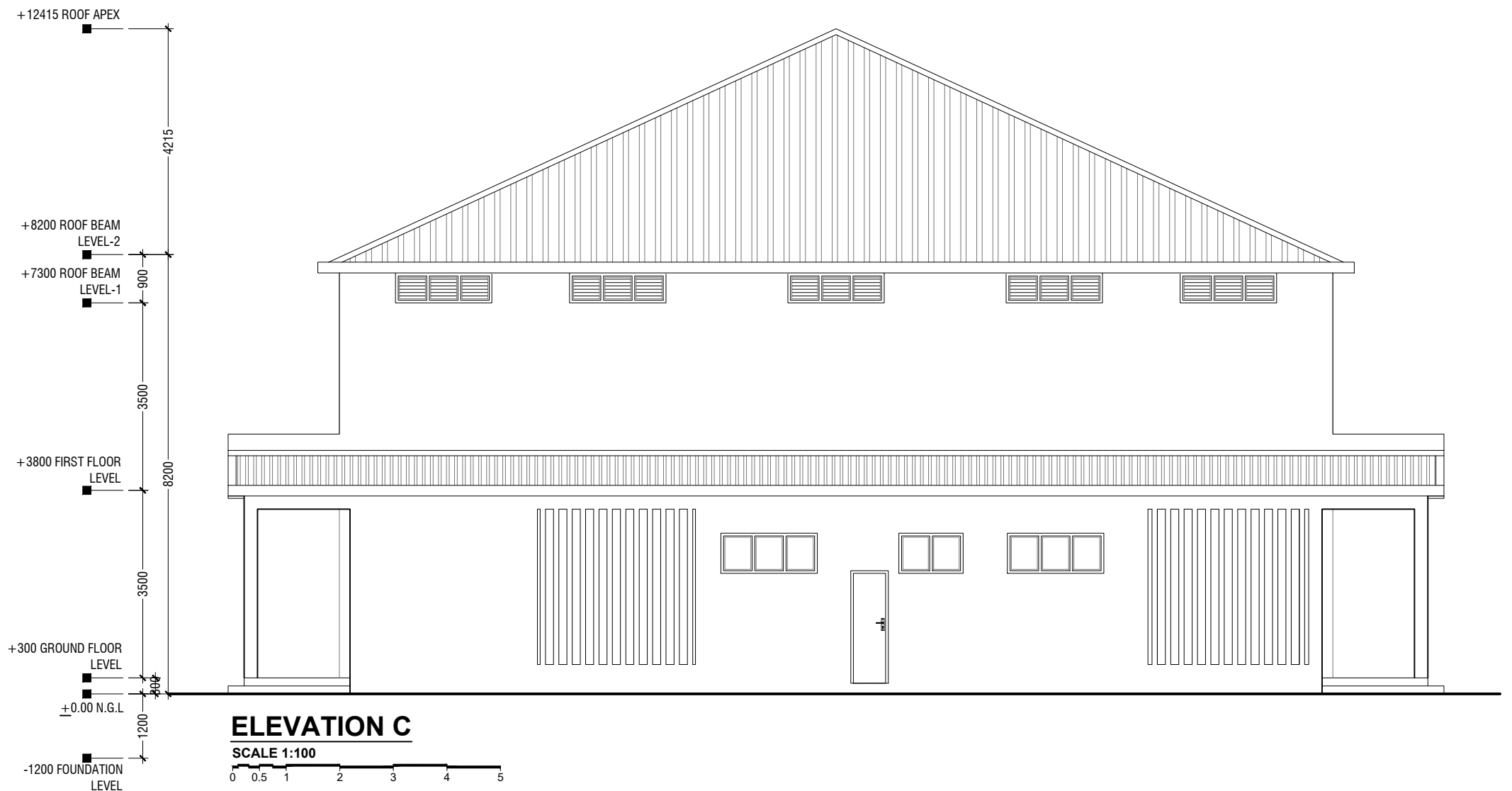
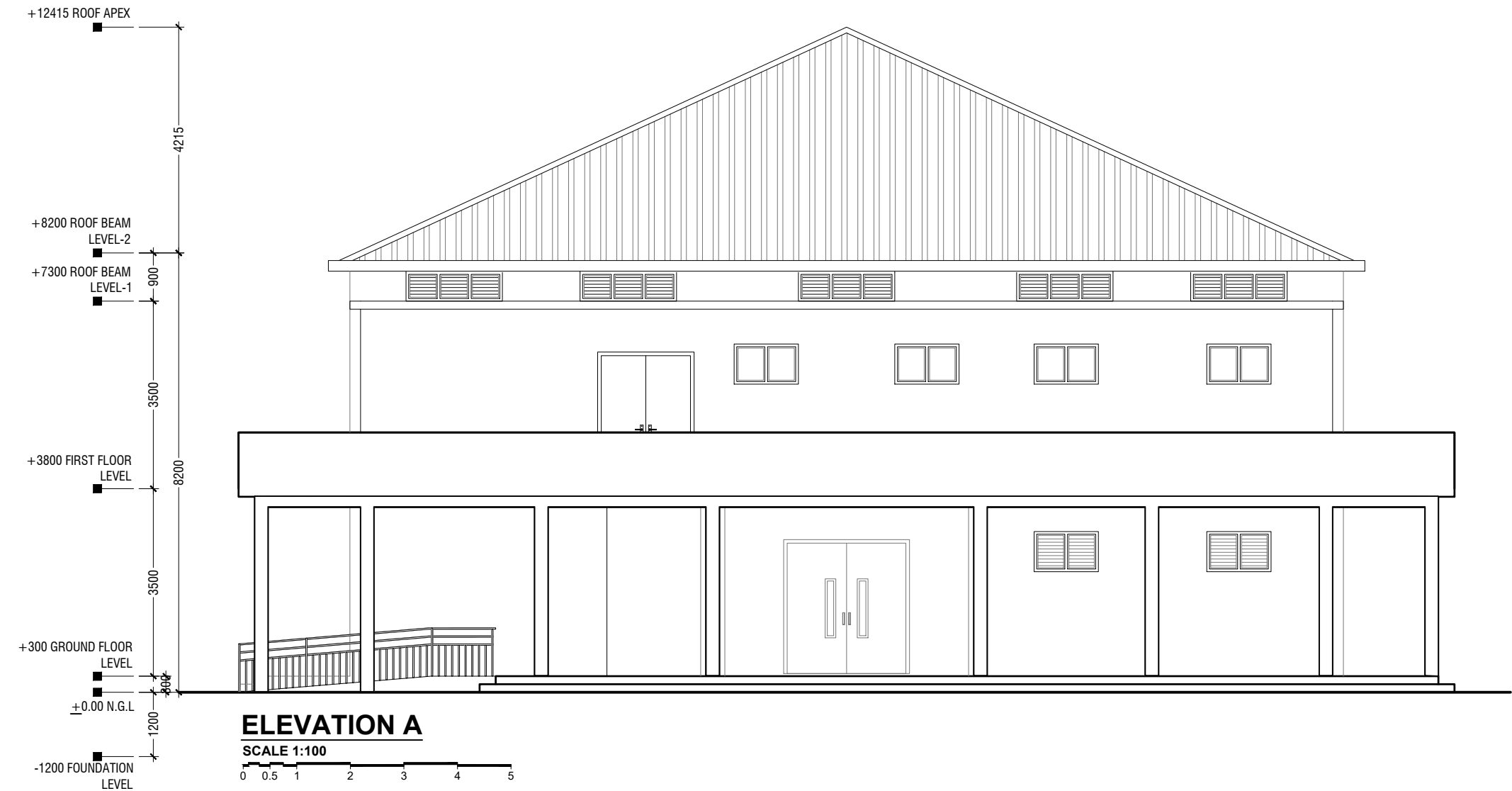
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Project Number: RI/2017/02  
Date: 2017/02/02  
Drawn by: Razana Amir  
Engineer: Ahmed Z. J. Al-Zamir  
Services: Al-Ramdhani  
Interior

Title: Roof Plan - 2

Page: A-04/19

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GDh Gadhoo School Hall

Client: Ministry of Education

Rev no	Date
1	2015
2	2015
3	2015
4	2015
5	2015

Project Number: RI/2017/002  
Date: June 2015  
Architect: Ahmed Z. J. Al-Zahrani  
Engineer: Ahmed Z. J. Al-Zahrani  
Drawn by: Razana Amir  
Services: Al-Fatih Ahmed  
Interior



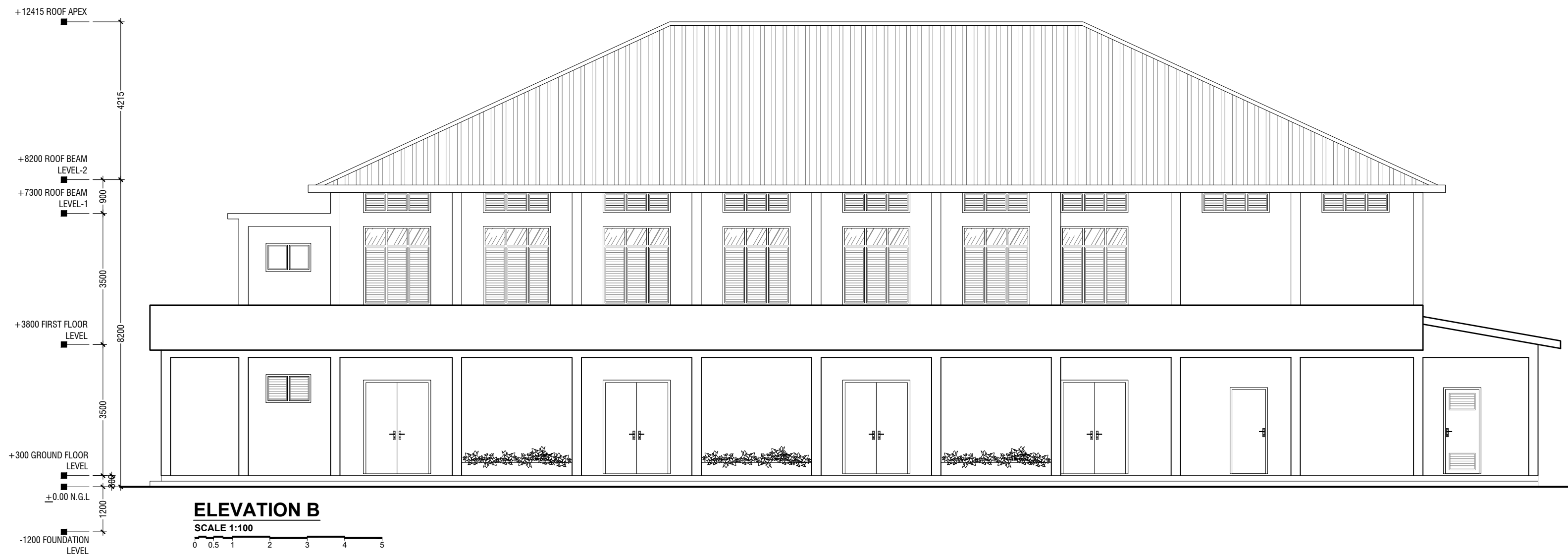
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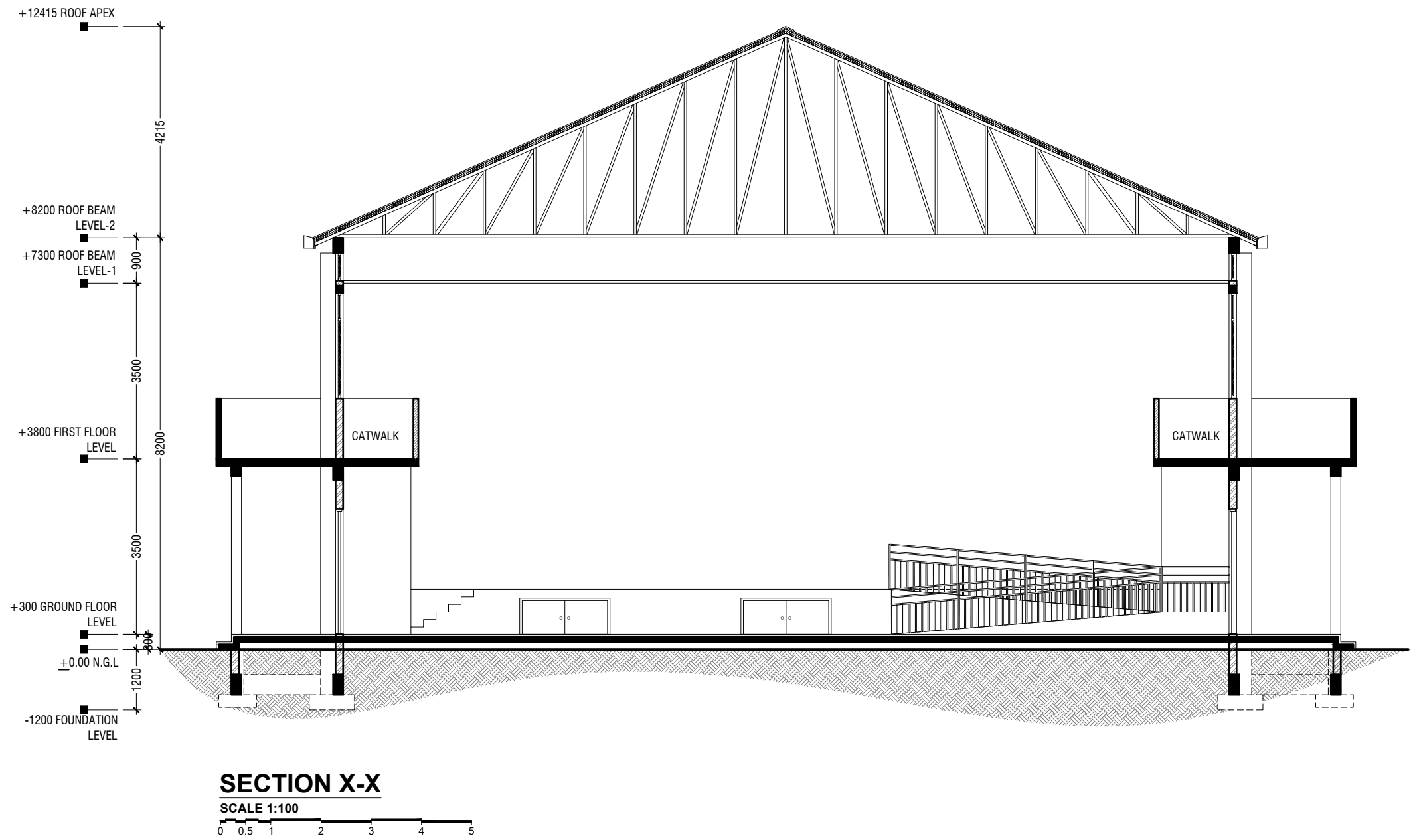
Title: Elevation A & C

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GDh Gadhoo School Hall  
Client: Ministry of Education

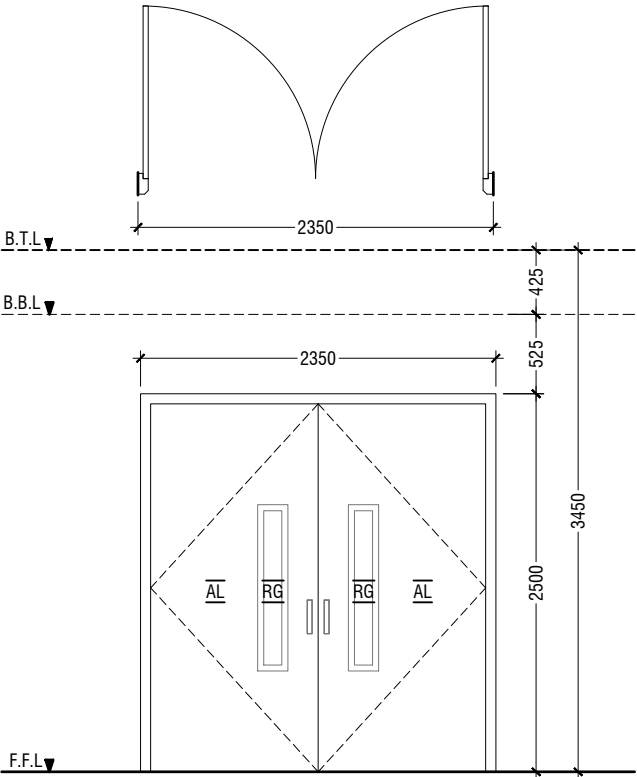
Rev no	Date
1	2019/06/20
2	2019/06/20
3	2019/06/20
4	2019/06/20
5	2019/06/20

Project Number: RI/2017/002  
Date: 2019/06/20  
Drawn by: Razana Amir  
Engineer: Ahmed Z. J. Al-Zam  
Services: Al-Fatih Al-Fatih  
Interior

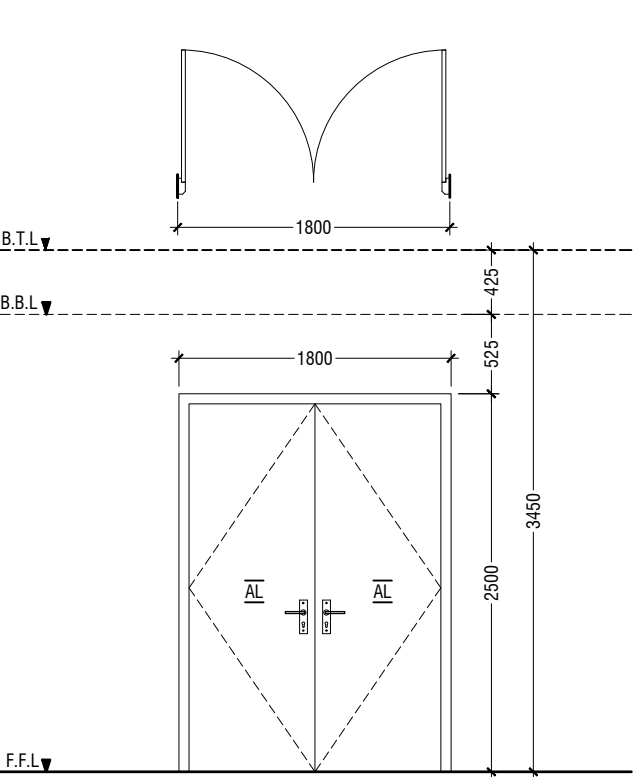
Title: Section X-X

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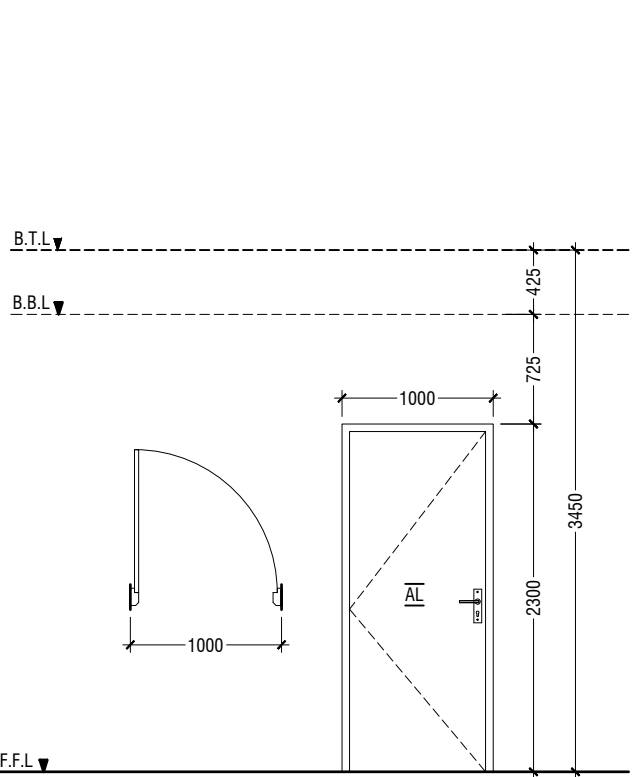
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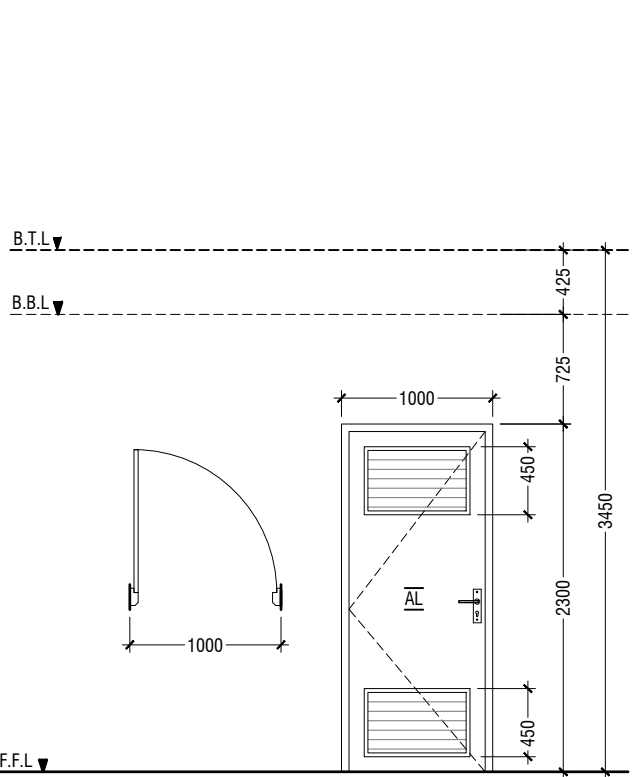
D1	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL GLASS ON PANEL : 6mm THK REFLECTIVE GLASS
LOCATION	HALL MAIN ENTRANCE
QUANTITY	01 NOS
OPEN AREA	5.39 sqm



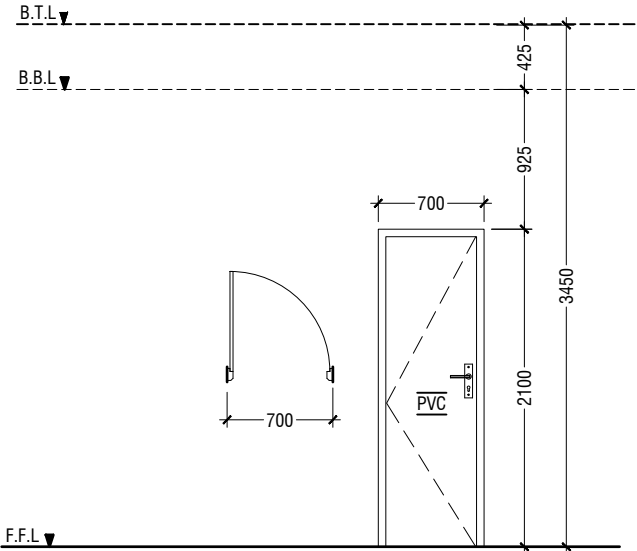
D2	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	HALL ENTRANCE
QUANTITY	10 NOS
OPEN AREA	4.05 sqm



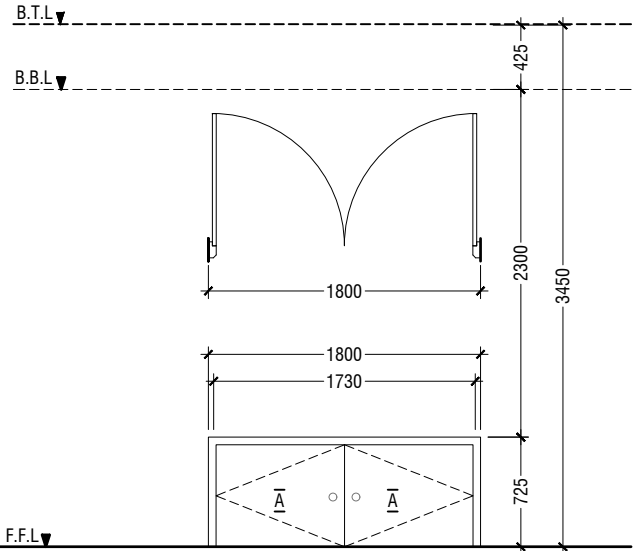
D3	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE, CONTROL ROOM & STORE ROOM
QUANTITY	05 NOS
OPEN AREA	2.03 sqm



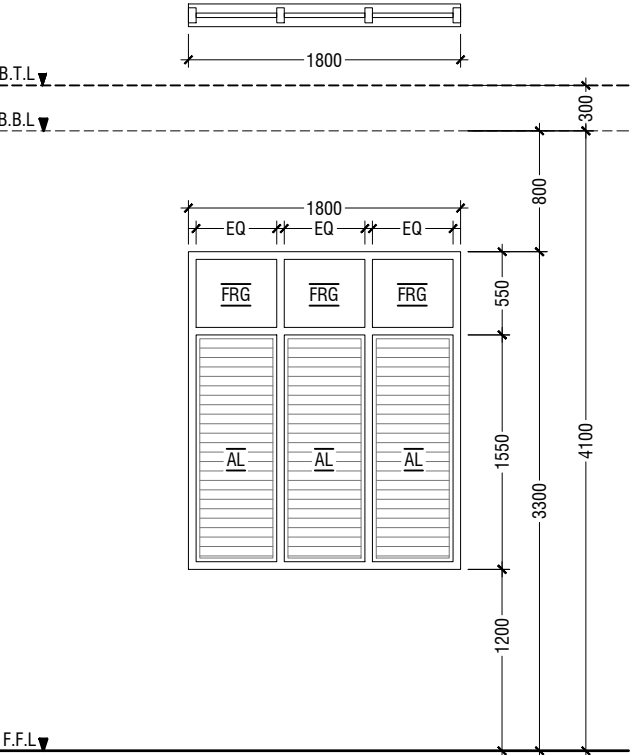
D4	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



D5	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS, CHANGING ROOM & STORE ROOM
QUANTITY	07 NOS
OPEN AREA	1.23 SQM



D6	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE STORE ACCESS
QUANTITY	02 NOS
OPEN AREA	1.15 SQM



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

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

NOTE:-  
- 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  
0 0.25 0.5 1 1.5 2 2.5

GDh.Gadhoo School Hall  
Client: Ministry of Education

Project Number: RI/2017/012  
Date: June 2019  
Architect: Razana Amir  
Engineer: Ahmed Zuhail Zaeem  
Drawn by: Razana Amir  
Services: Alshah Ahmed  
Interior: -

Rev no  
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Date  
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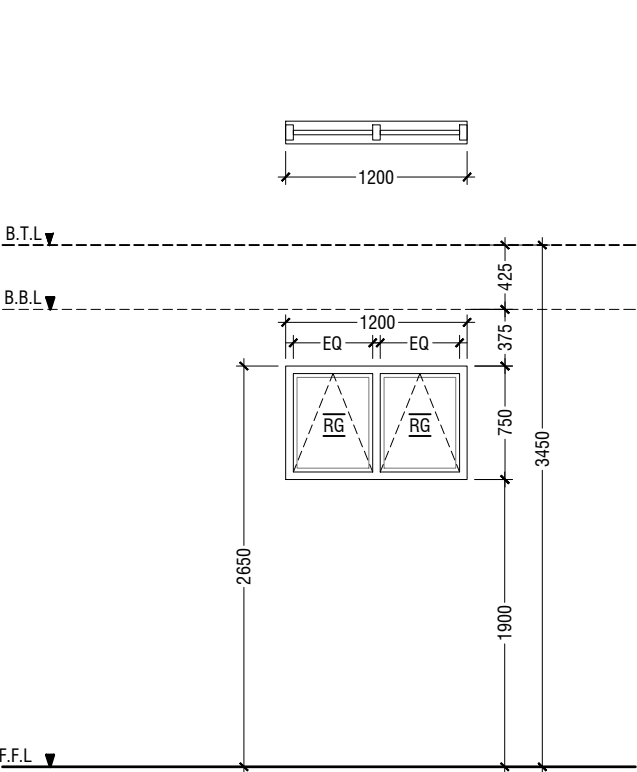
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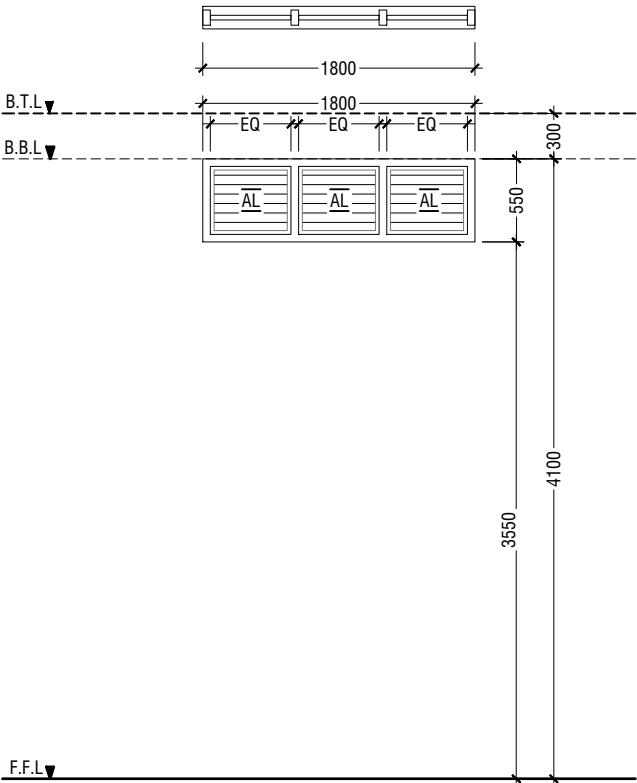
Title: Door / Window  
Schedule - 1

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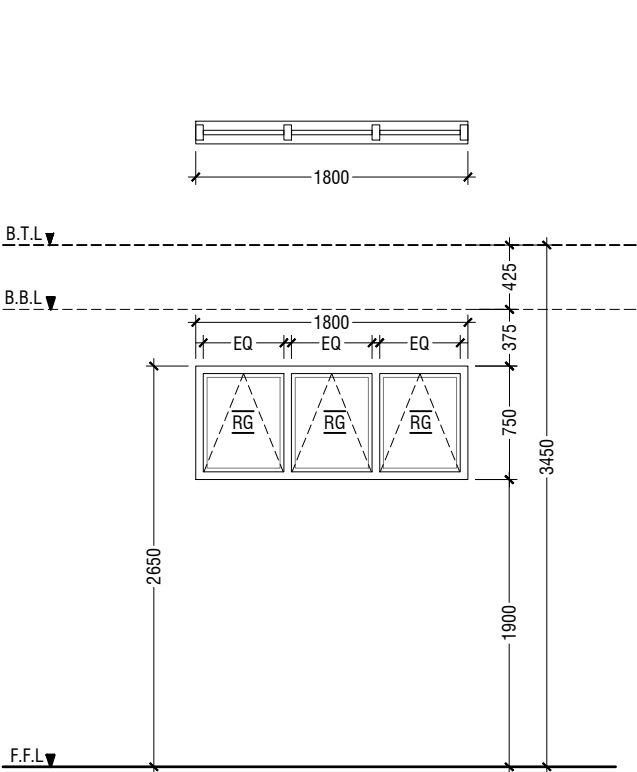
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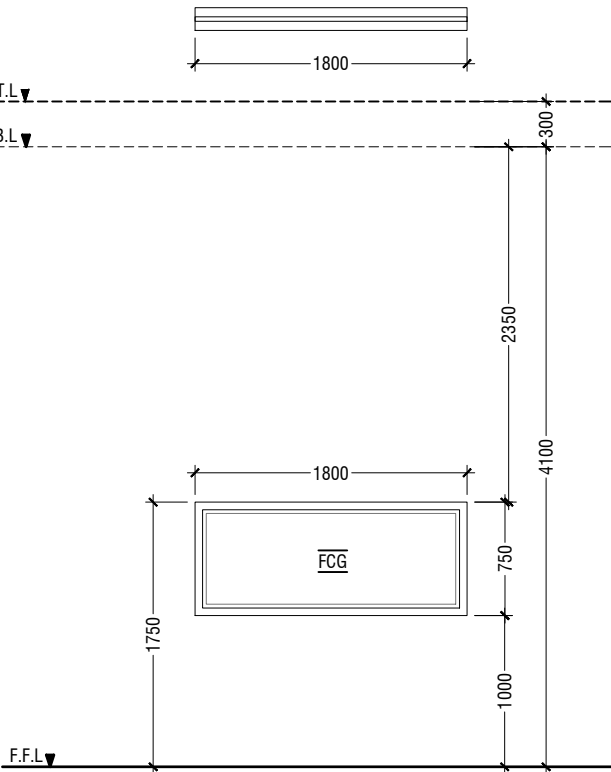
W2	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	STORE ROOM
QUANTITY	06 NOS
OPEN AREA	0.68 sqm



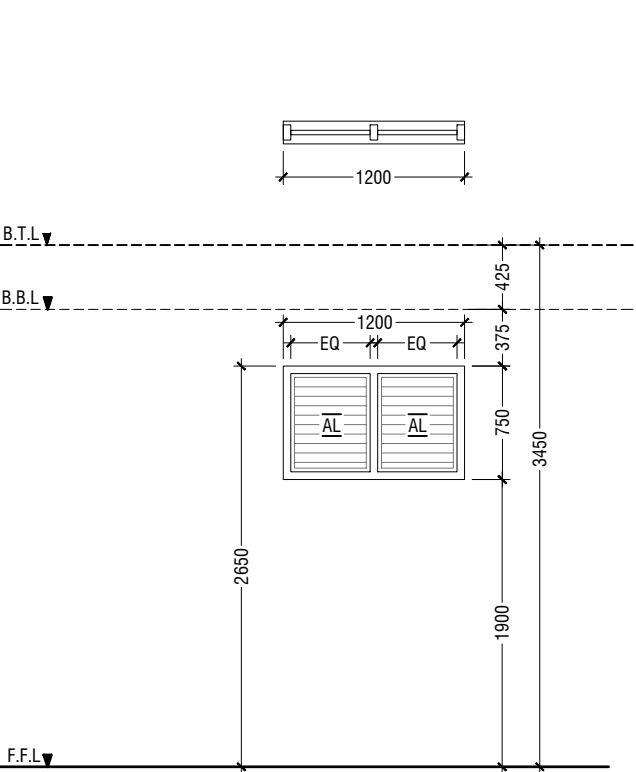
V2	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ABOVE HALL CEILING
QUANTITY	28 NOS
OPEN AREA	0.72 sqm



W3	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CHANGING ROOMS
QUANTITY	02 NOS
OPEN AREA	1.04 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 ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ELECTRICAL ROOM
QUANTITY	03 NOS
OPEN AREA	0.68 sqm

### SCHEDULE OF VENTILATION FOR GDH.GADHOO SCHOOL

	Room name	Room Areas (sqm) ( Specify centre to centre or clear)	Window (opening) number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
	<b>Ground Floor</b>					
1	Multi-purpose Hall	394.00	D1, 8*D2 & 14*W1	39.40	71.39	18.12%
2	Electrical	15.05	3*V1	1.51	2.04	13.55%
3	Changing Room -1	7.09	W3	0.71	1.04	14.67%
4	Changing Room -2	9.19	W3	0.92	1.04	11.32%
5	Store Room	7.09	D2 & W2	0.71	4.73	66.71%
6	Toilet for Disable	5.10	D4	0.51	2.03	39.80%
7	Toilet (Male)	13.01	RC FINS			
8	Toilet (Female)	9.22	RC FINS			
	<b>First Floor</b>					
9	Control Room	11.49	2*W2	1.15	1.36	11.84%
10	Store Room	15.04	3*W2	1.50	2.04	13.56%

### VENTILATION SCHEDULE

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

NOTE:-  
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- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

### DOOR / WINDOW SCHEDULE - 2

SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5

GDh.Gadhoo School Hall  
Client: Ministry of Education



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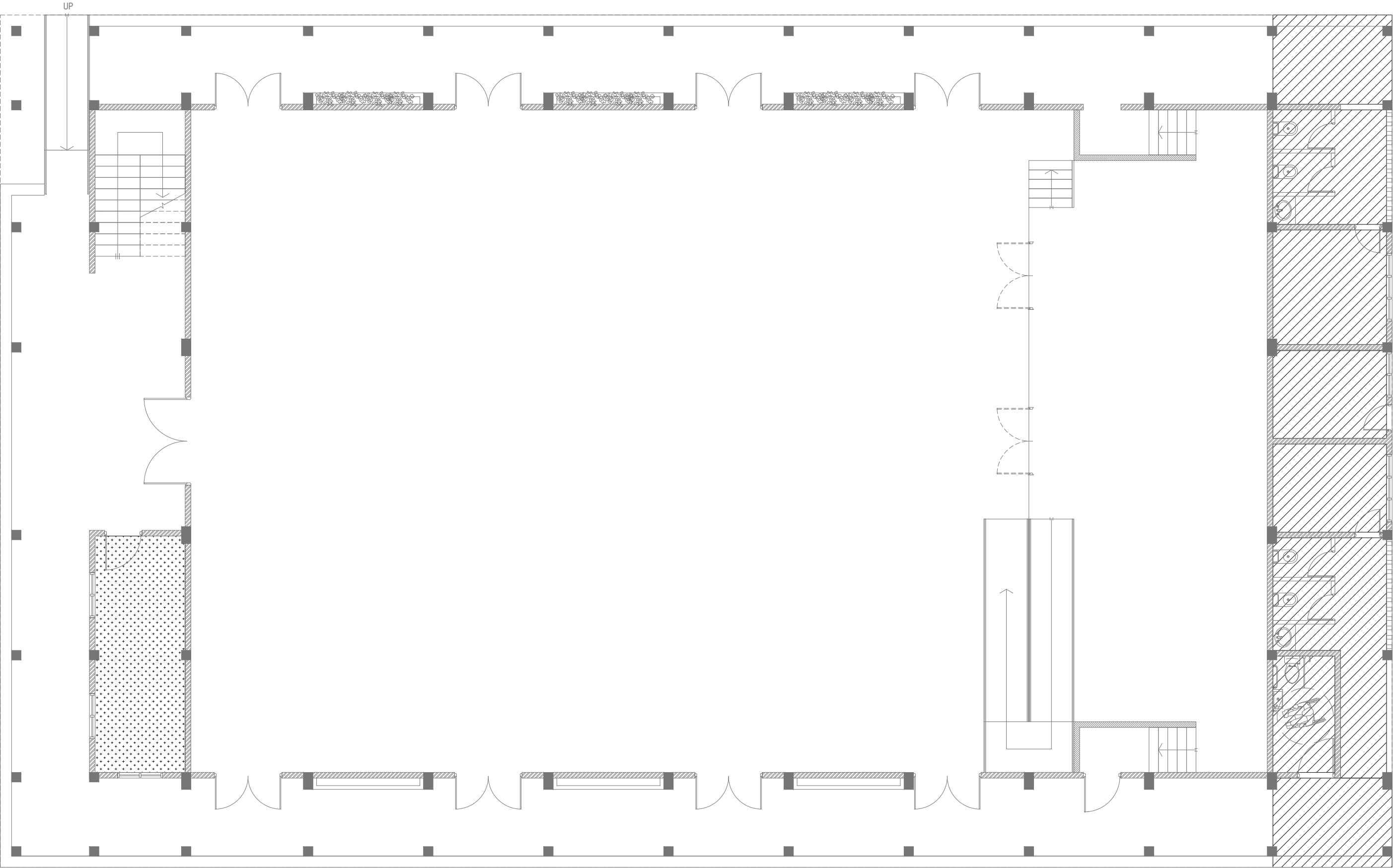
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3rd floor, H. Azum, Anseesemagu, Male'

Title: Door / Window  
Schedule - 2

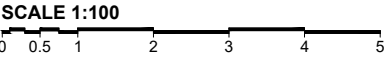
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Project Number: RI/2017/012  
Date: June 2019  
Architect: Razana Amir  
Engineer: Ahmed Zuhail Zaeem  
Drawn by: Razana Amir  
Services: Alshah Ahmed  
Interior: -

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**GROUND FLOOR  
REFLECTED CEILING PLAN**



**LEGEND**

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE FINISHED WITH GROUND SMOOTH FINISH IN SELECTED PAINT
	CEMENT BOARD CEILING

GDh.Gadhoo School Hall  
Client: Ministry of Education

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	--	-----
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhail Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: Alshah Ahmed	--	-----
Interior: -	--	-----



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

Title: Door / Window  
Schedule - 2

Page: A-10/19


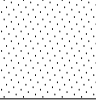
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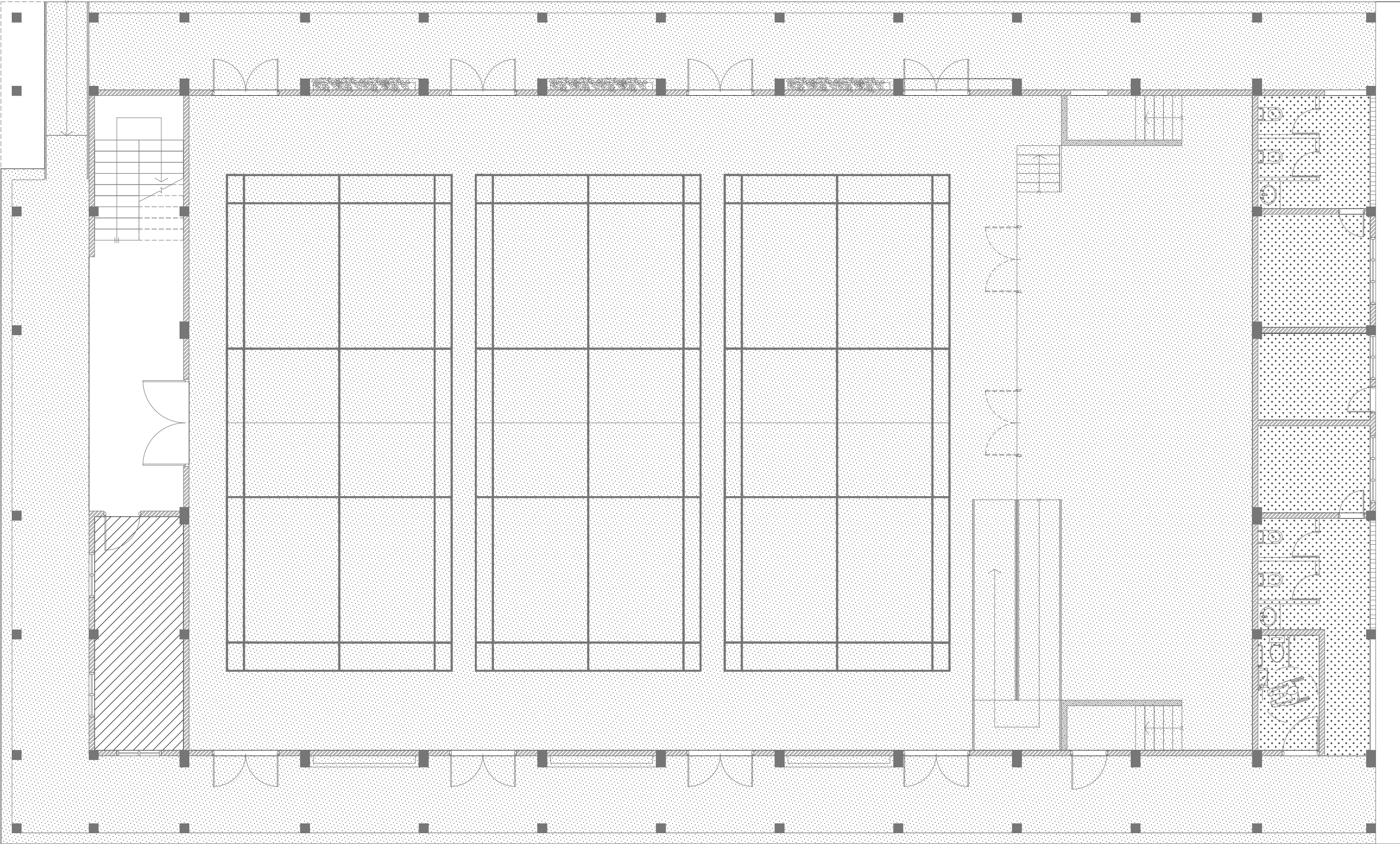
**FIRST FLOOR  
REFLECTED CEILING PLAN**

SCALE 1:100

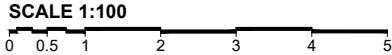
0 0.5 1 2 3 4 5

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE FINISHED WITH GROUND SMOOTH FINISH IN SELECTED PAINT
	SUSPENDED ACOUSTIC CEILING SYSTEM WITH ALUMINUM FRAMING CEILING HEIGHT : + 7300mm





GROUND FLOOR  
FLOOR FINISHES PLAN



LEGEND

CODE	DESCRIPTION
	SELF LEVELLING CEMENT FLOOR SCREED WITH EPOXY FLOOR PAINT
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING

	300X300mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
--	---

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

GDh.Gadhoo School Hall  
Client: Ministry of Education

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	1	11/06/2019
Architect: Razana Amir	2	11/06/2019
Engineer: Ahmed Zuhair Zaeem	3	11/06/2019
Drawn by: Razana Amir	4	11/06/2019
Services: Alshah Ahmed	5	11/06/2019
Interior: -	6	11/06/2019



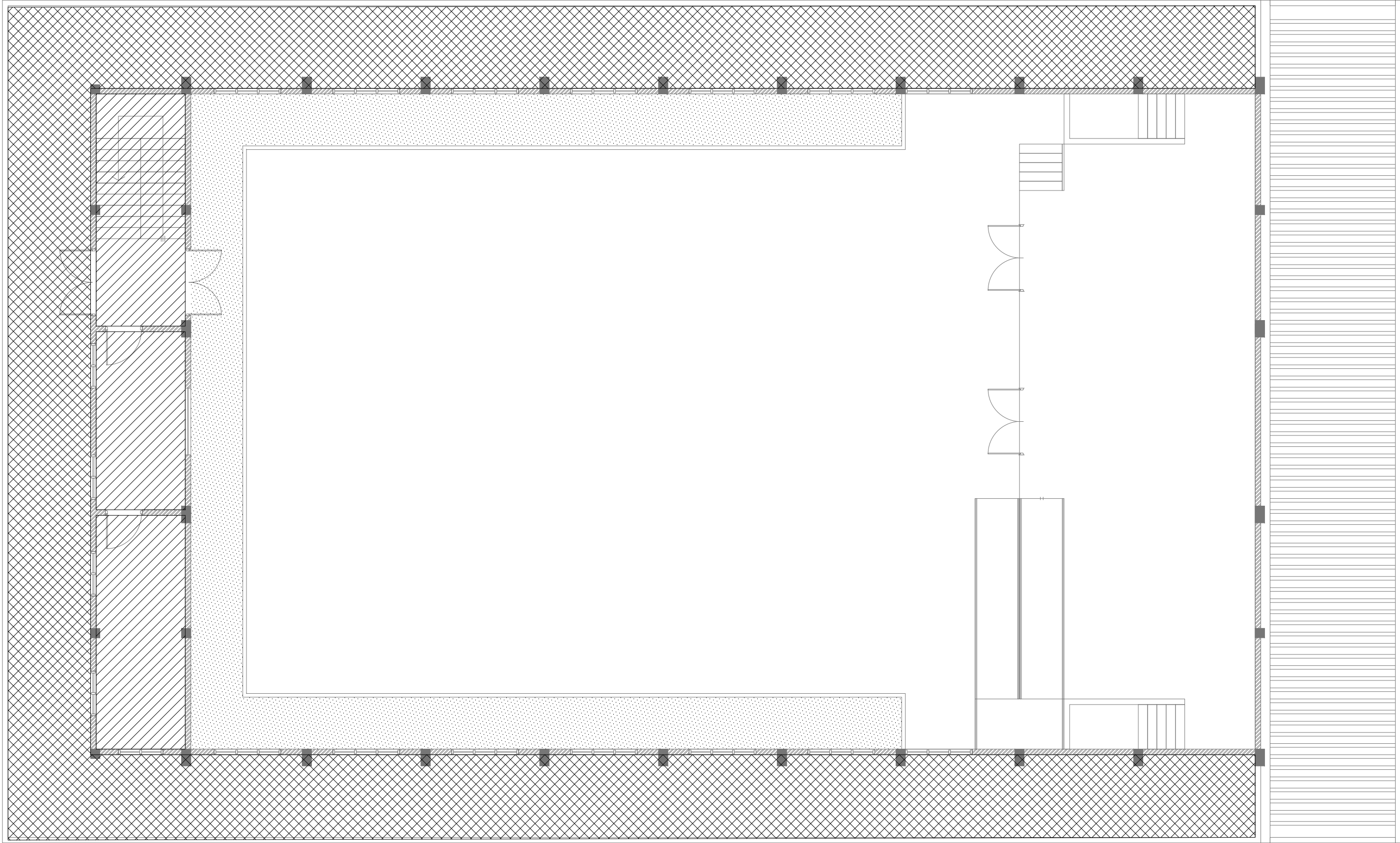
RIYAN PRIVATE LIMITED

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

Title: Door / Window  
Schedule - 2

Page: A-12/19

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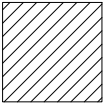


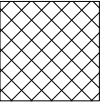
**FIRST FLOOR  
FLOOR FINISHES PLAN**

SCALE 1:100

0 0.5 1 2 3 4 5

**LEGEND**

CODE	DESCRIPTION
	SELF LEVELLING CEMENT FLOOR SCREED WITH EPOXY FLOOR PAINT
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING

	SELF LEVELLING CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT
---	---

GDh.Gadhoo School Hall  
Client: Ministry of Education

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	--	-----
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhail Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: Alshah Ahmed	--	-----
Interior: -	--	-----

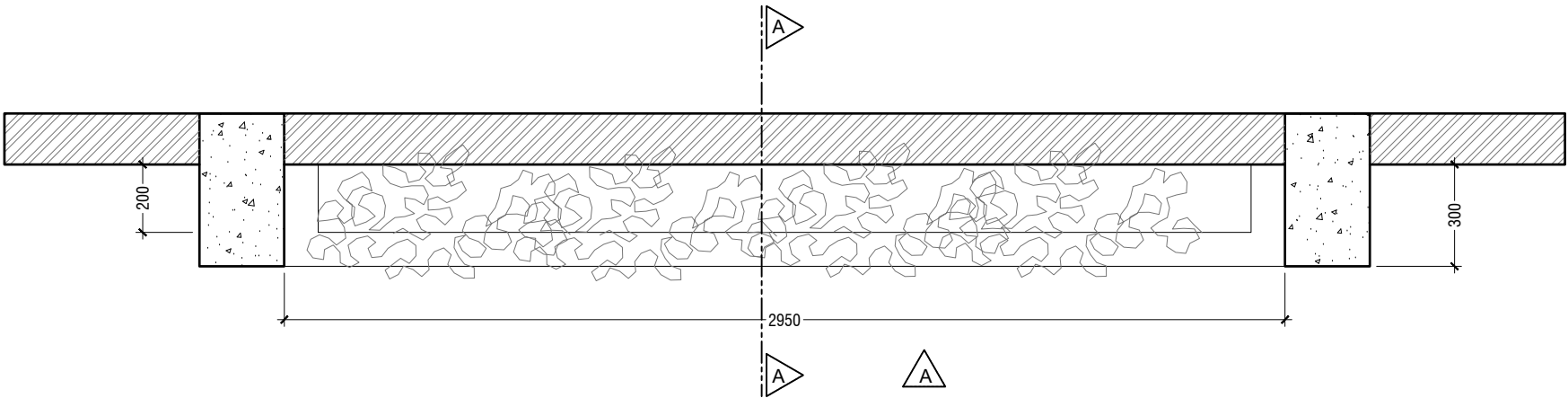


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3rd floor, H. Azum, Ankeeneemagu, Male'

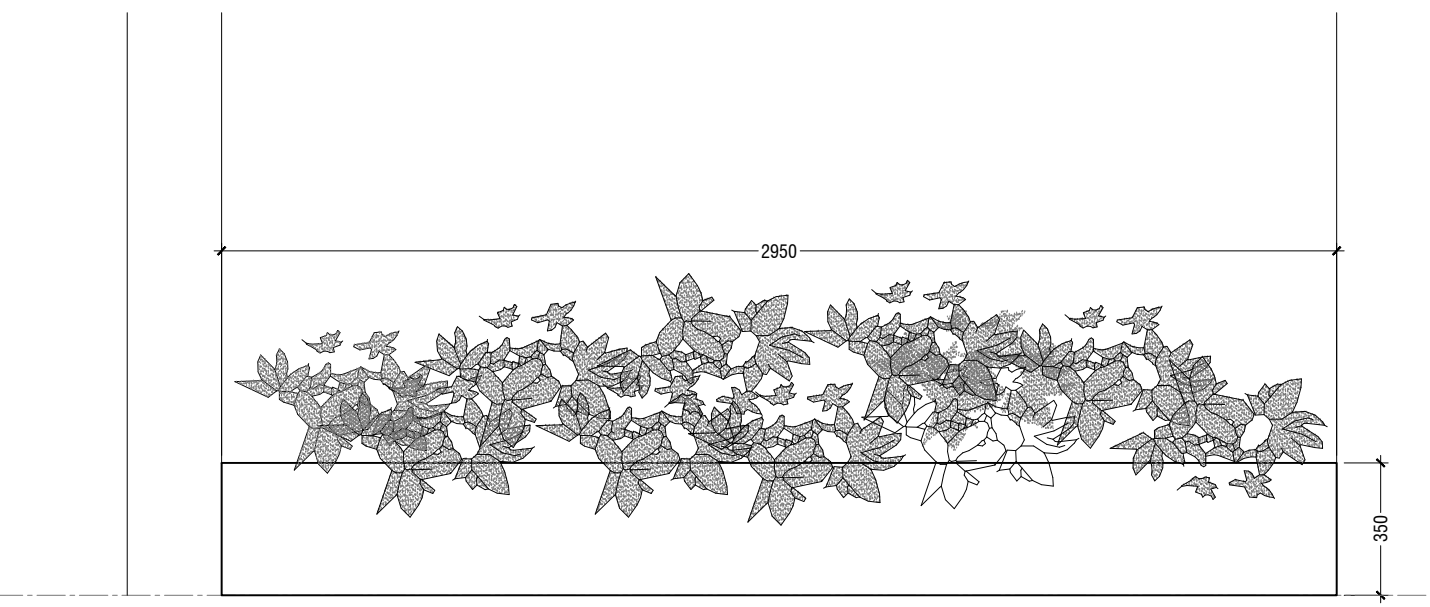
Title: Door / Window  
Schedule - 2

Page: A-13/19



**PLAN**  
SCALE 1:20

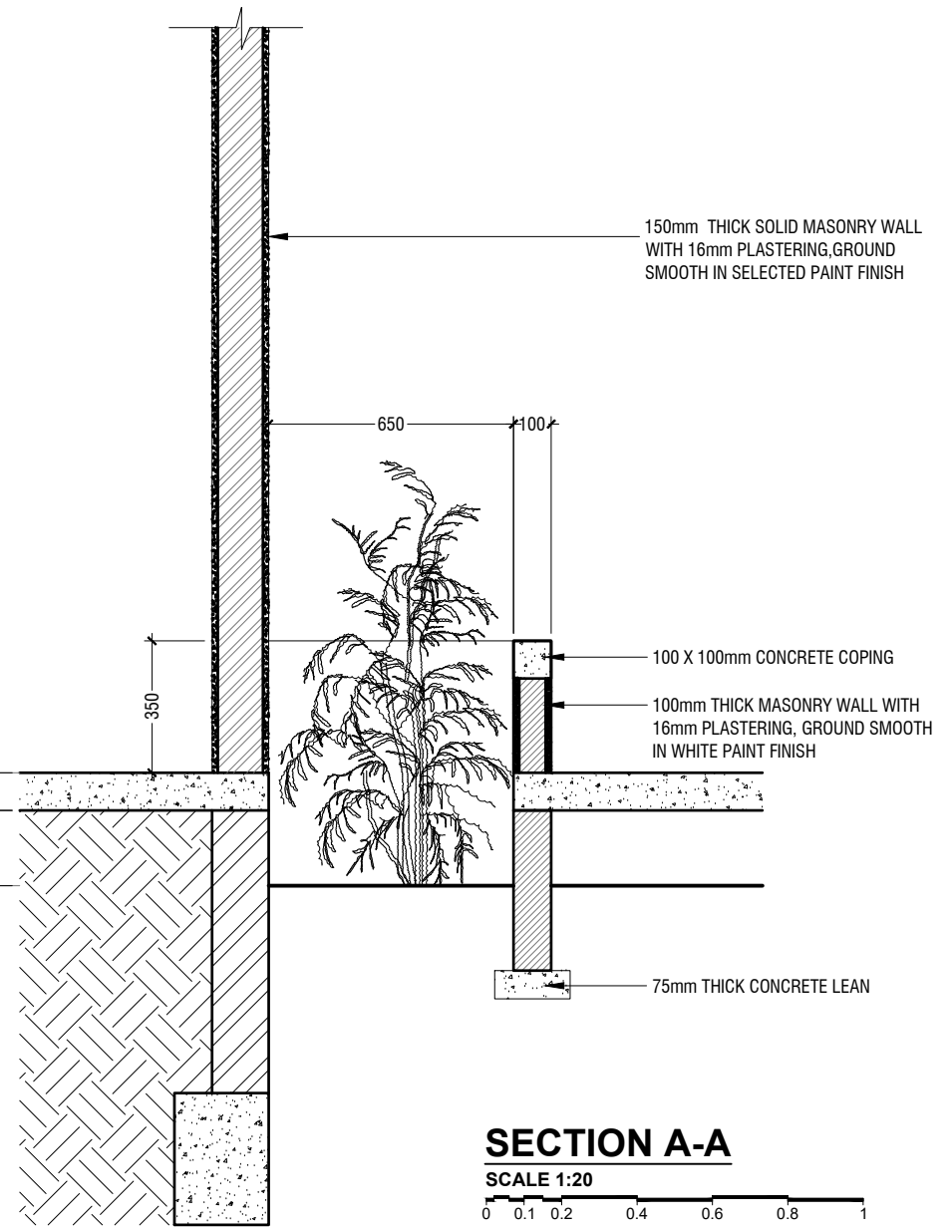
0 0.1 0.2 0.4 0.6 0.8 1



**ELEVATION A**  
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

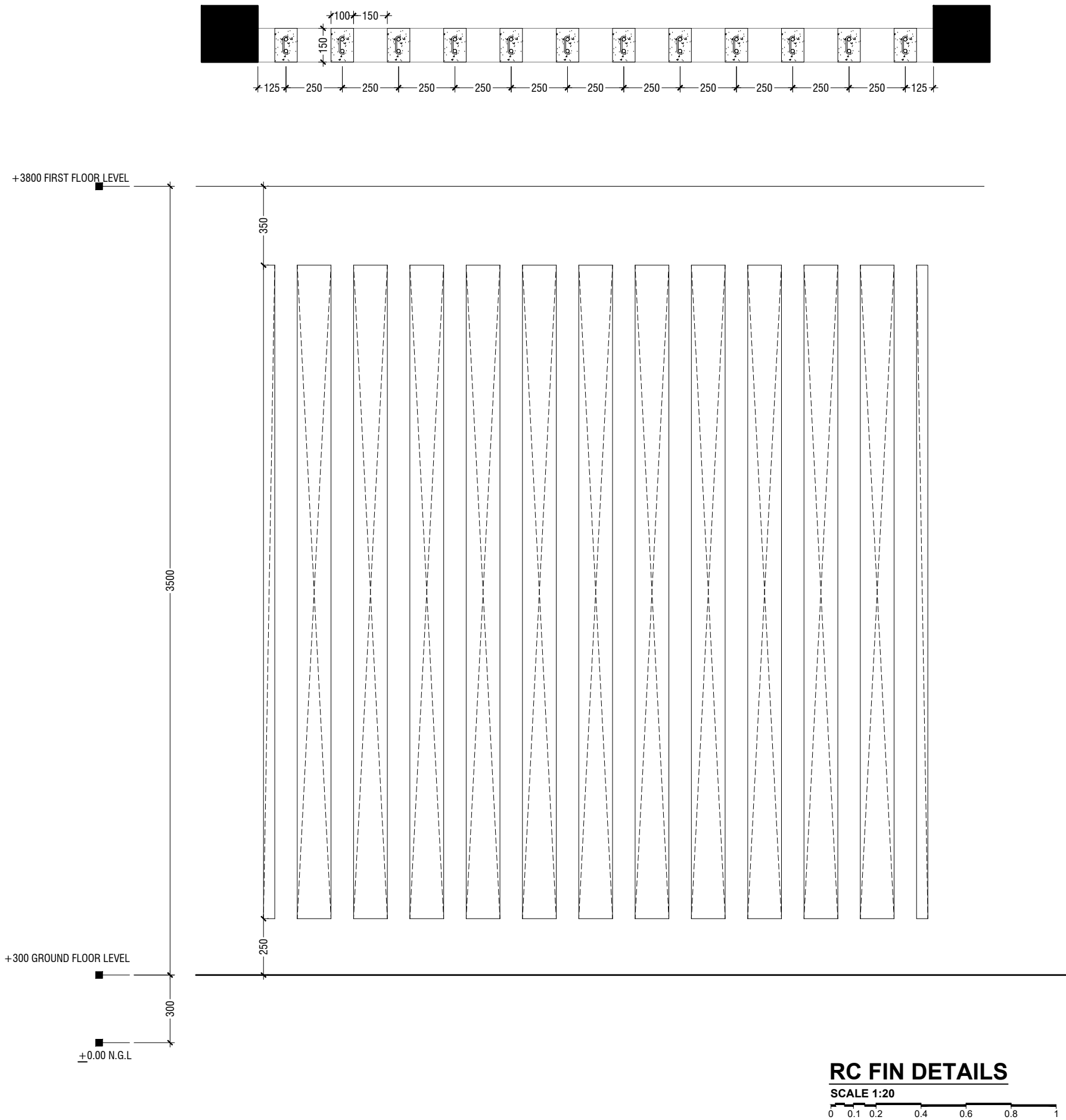
**PLANTER BOX DETAILS**

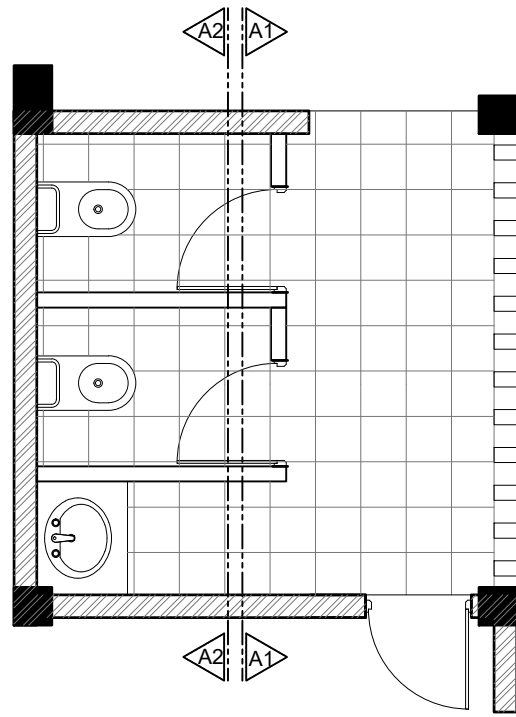


**SECTION A-A**  
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

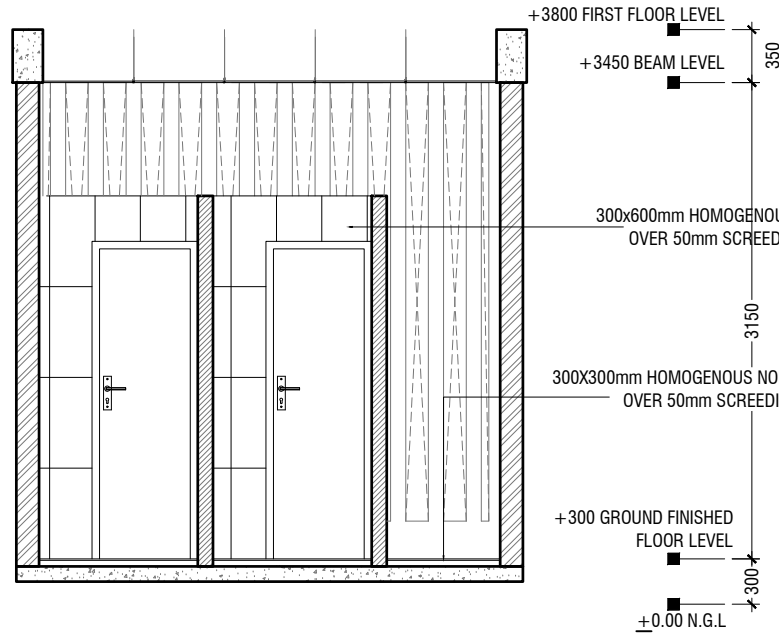






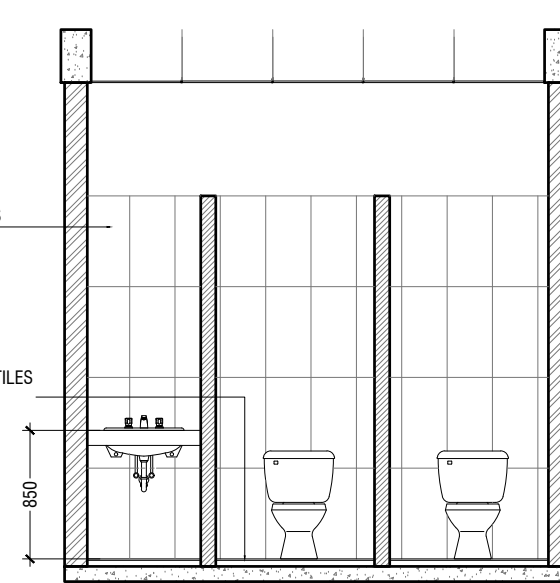
**TYPICAL TOILET PLAN**

SCALE 1:50  
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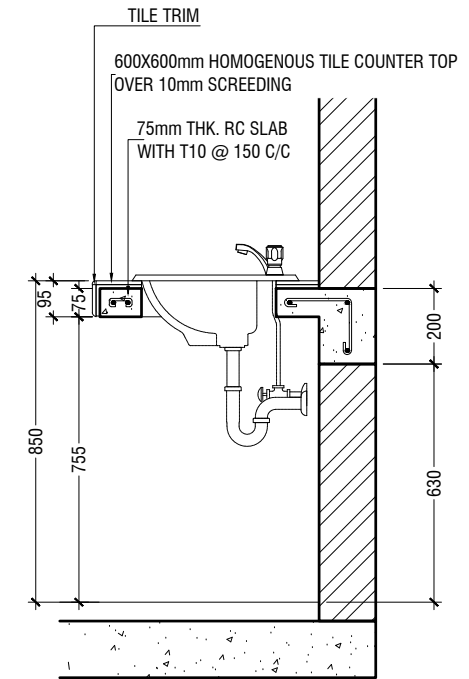
**SECTION A1-A1**

SCALE 1:50  
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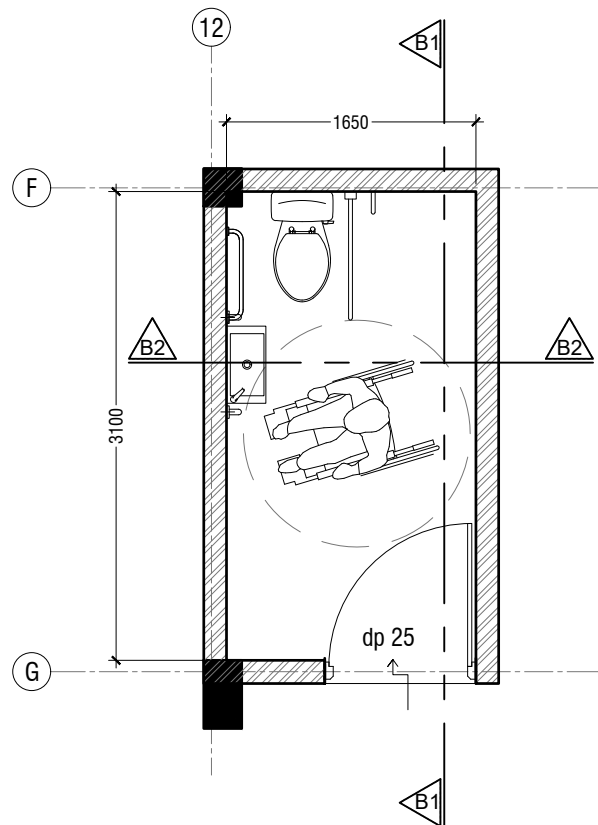
**SECTION A2-A2**

SCALE 1:50  
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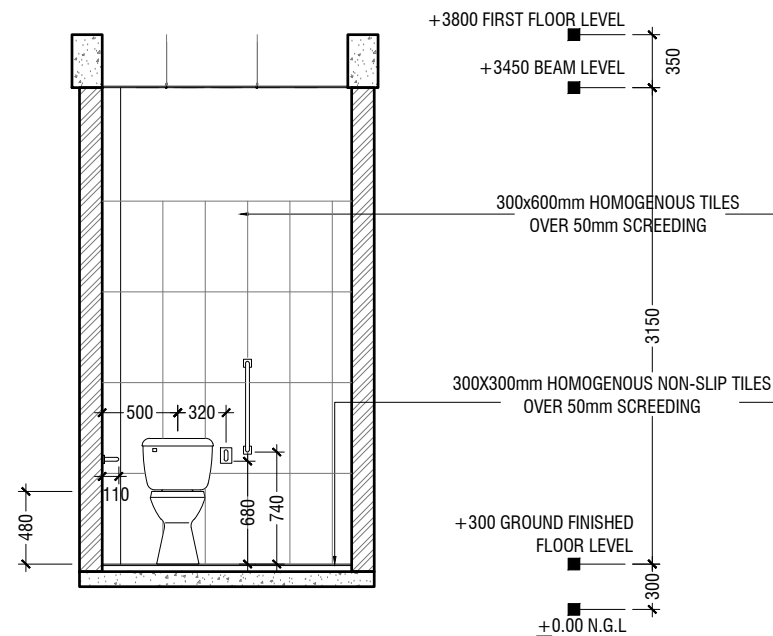
**COUNTER TOP DETAILS**

SCALE 1:20  
0 0.1 0.2 0.4 0.6 0.8 1



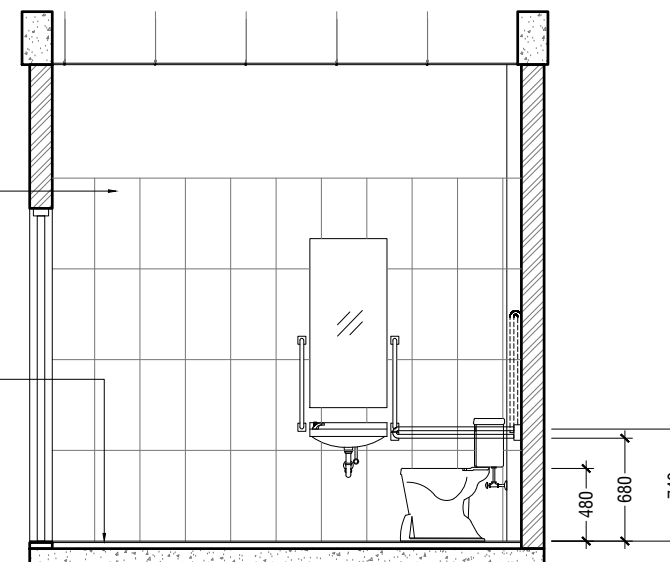
**TOILET FOR PERSONS WITH DISABILITIES PLAN**

SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5



**SECTION B1-B1**

SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5



**SECTION B2-B2**

SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5

**GDh.Gadhoo School Hall**  
**Client: Ministry of Education**

Project Number: RI/2017/012  
Date: June 2019  
Architect: Razana Amir  
Engineer: Ahmed Zuhail Zaeem  
Drawn by: Razana Amir  
Services: Alshahid Ahmed  
Interior: -

Rev no	Date
1	
2	
3	
4	



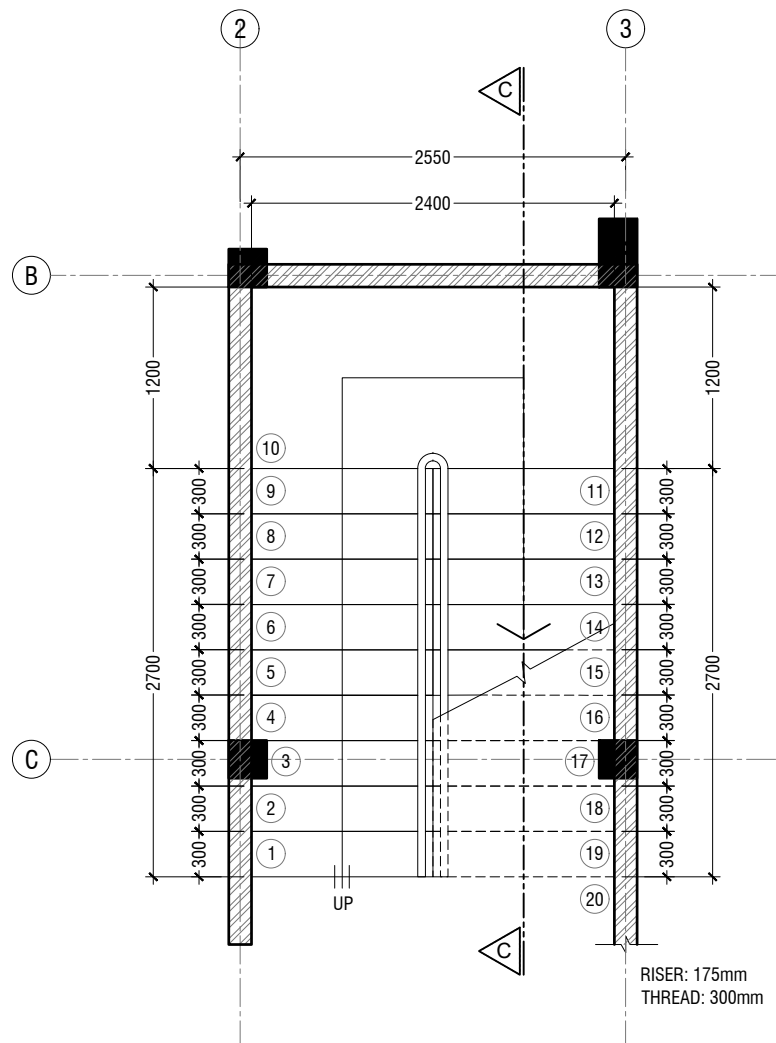
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3rd floor, H. Azum, Ameeesemagu, Male'

Title: Toilet details

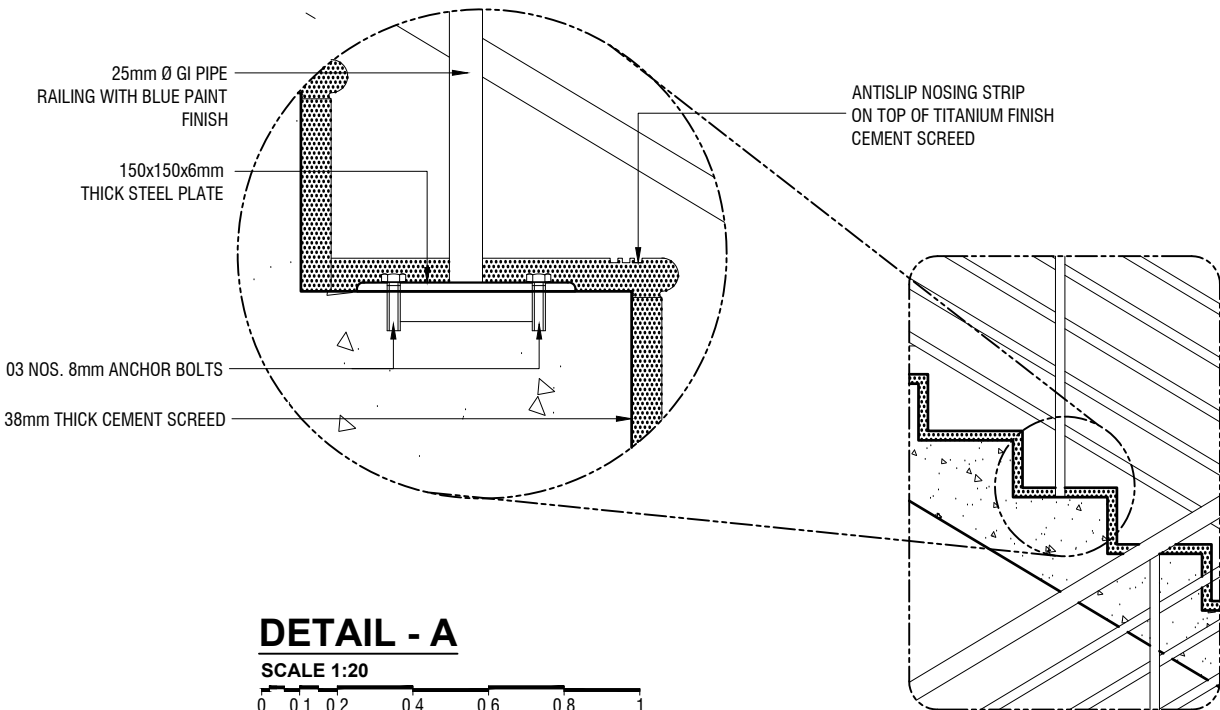
Page: A-16/19

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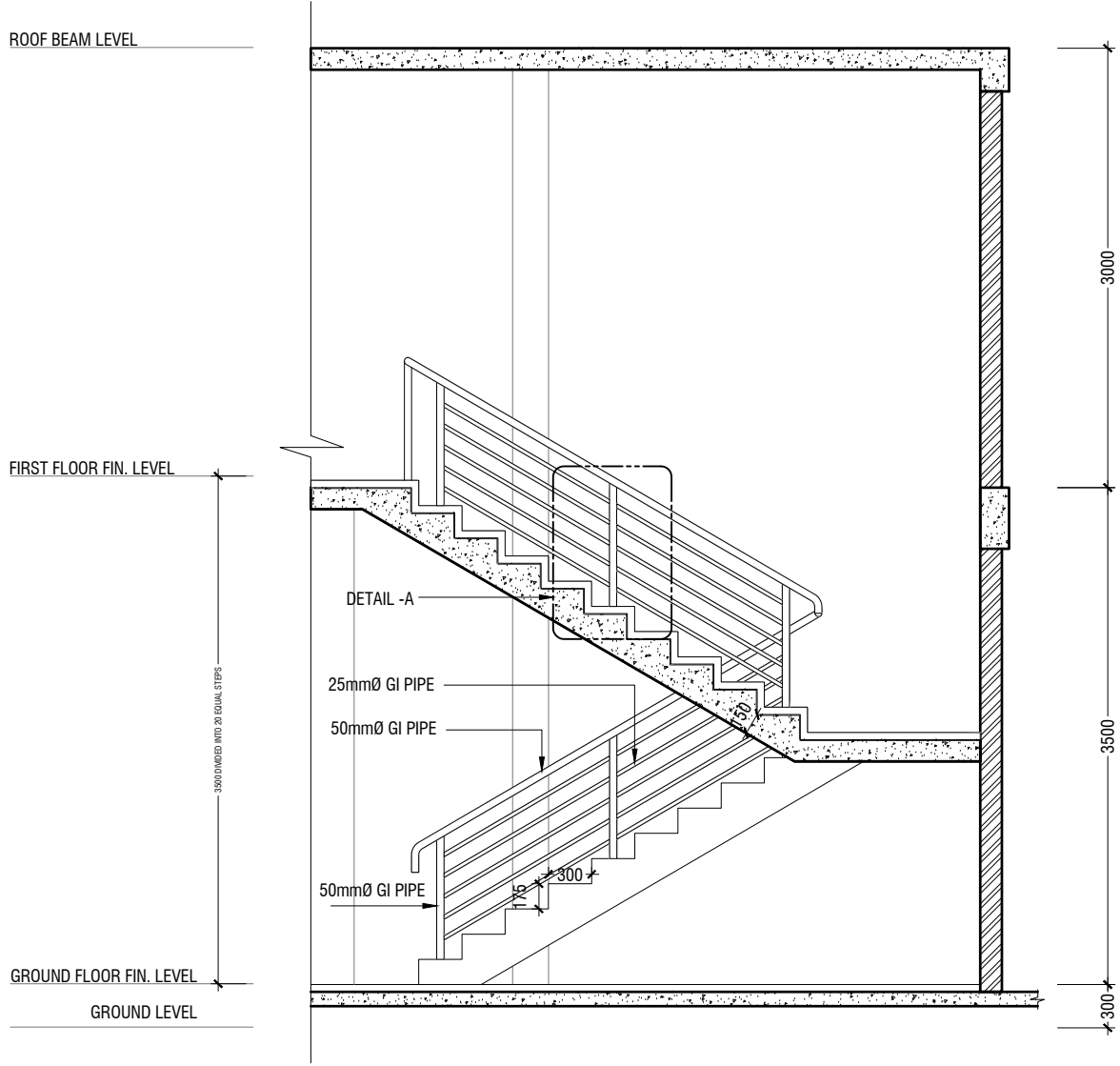
# MAIN STAIRCASE PLAN

SCALE 1:50



# DETAIL - A

SCALE 1:20



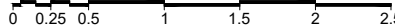
# SECTION C-C

SCALE 1:50



# MAIN STAIRCASE DETAILS

SCALE 1:50



GDh.Gadhoo School Hall  
Client: Ministry of Education

Rev no	Date
1	June 2019
2	
3	
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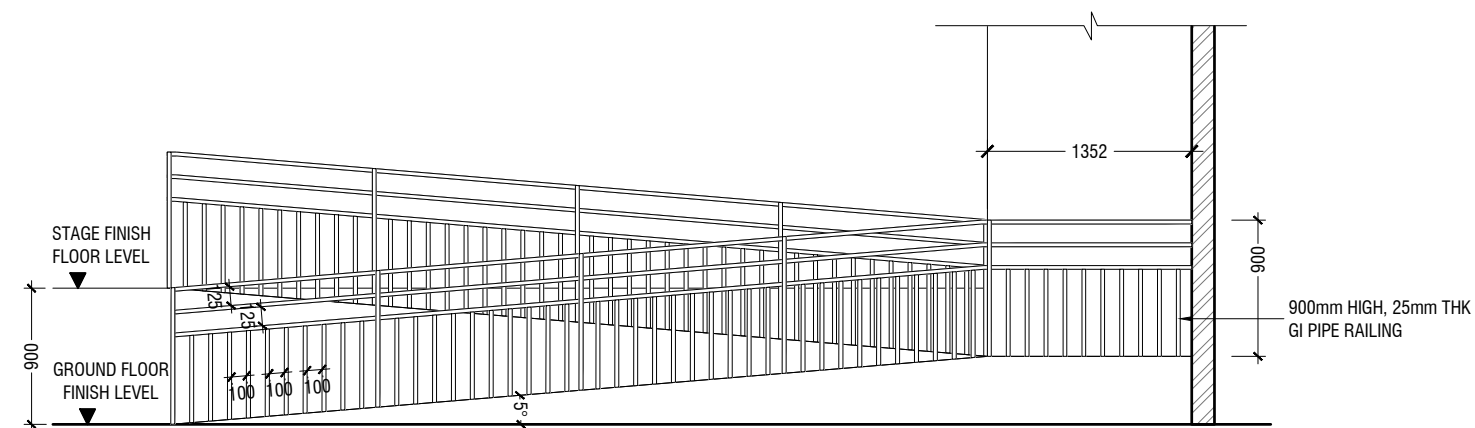
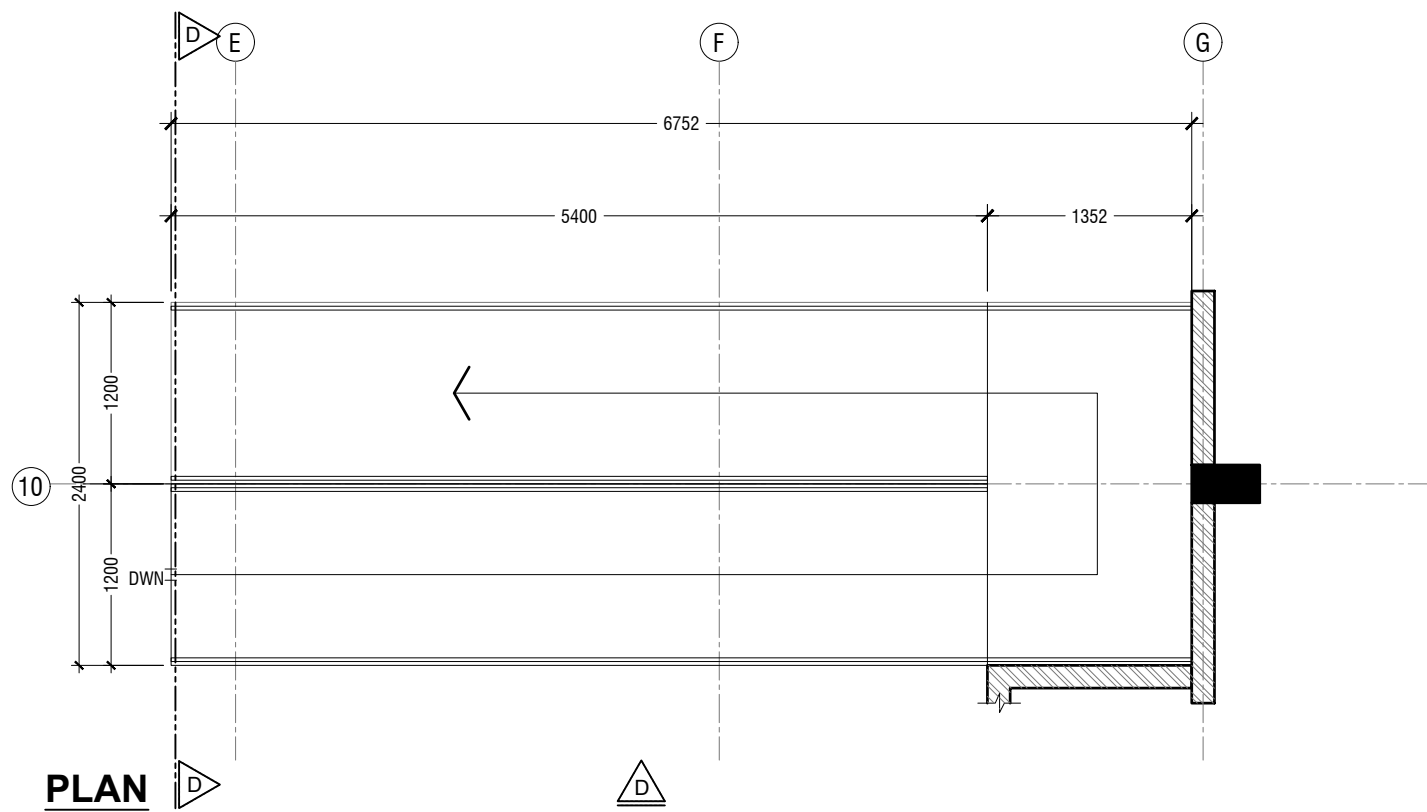
Project Number: RI/2017/012  
Date: June 2019  
Architect: Razana Amir  
Engineer: Ahmed Zuhair Zaeem  
Drawn by: Razana Amir  
Services: Alshahh Ahmed  
Interior: -



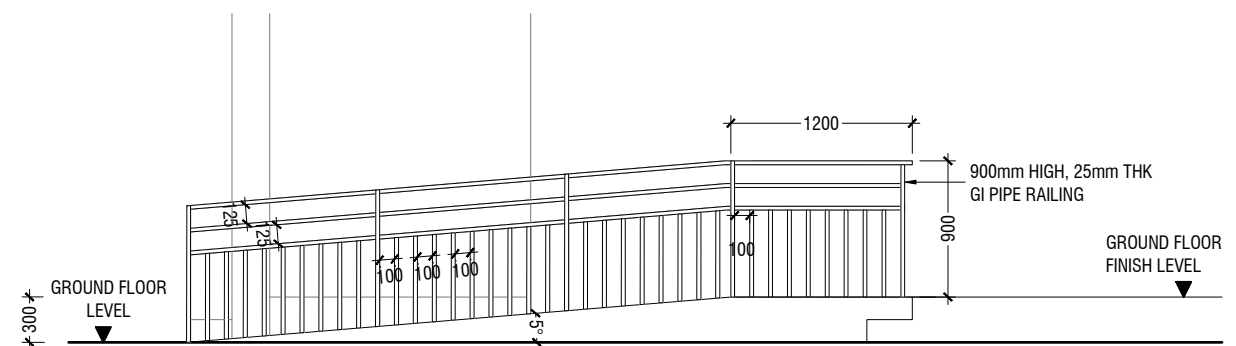
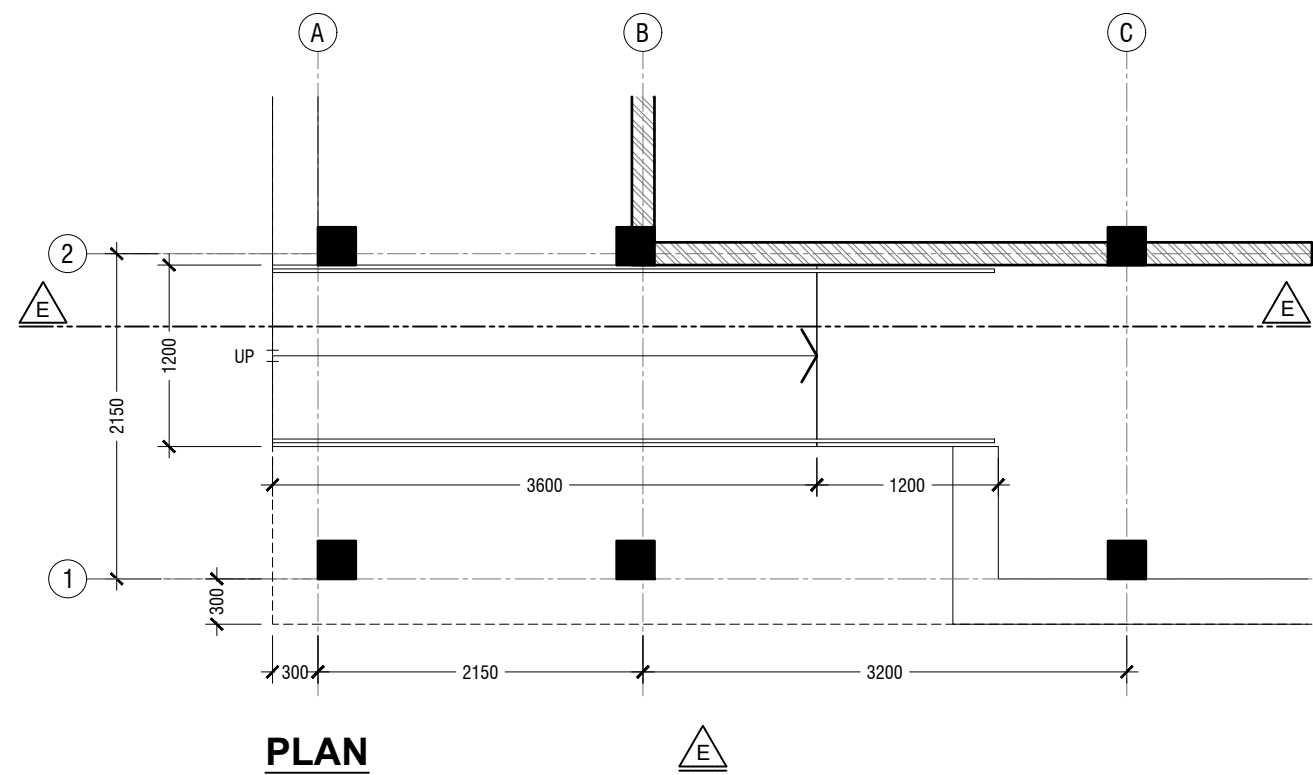
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3rd floor, H. Azum, Aneeneemagau, Male'

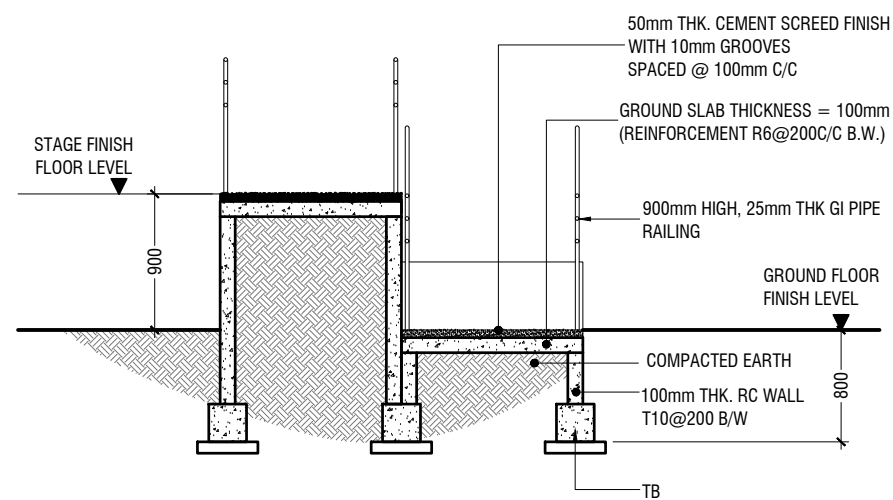
Title: Main Staircase Detail



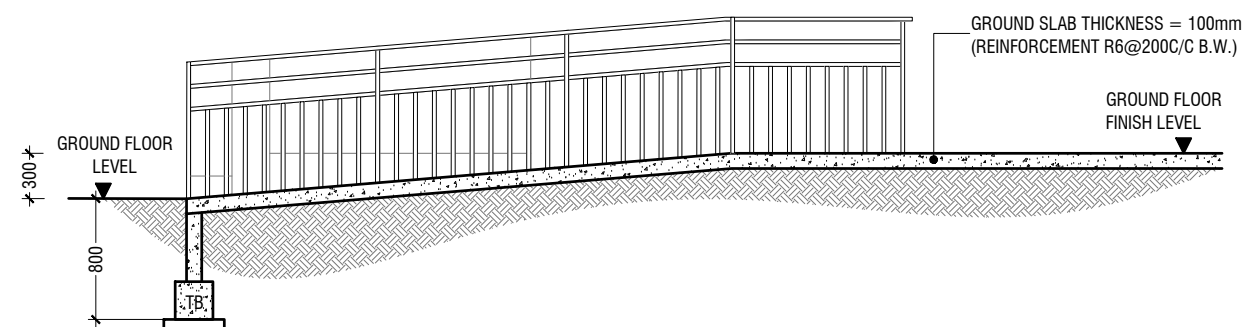
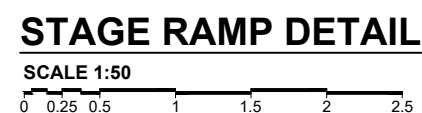
### ELEVATION D



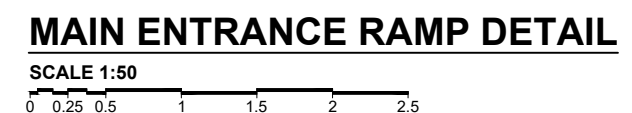
### ELEVATION E



## SECTION D-D



## SECTION E-E



GDh.Gadhoo School Hall  
Client: Ministry of Education

Date: June 2019

Architect : Razan  
Engineer : Ahmed

Engineer : Ahmed Zuhair  
Drawn by : Razana Amir

Drawn by : Razana Amir  
Services : Aishath Ahmed

Interior : -

limited. Any us

— — — — —

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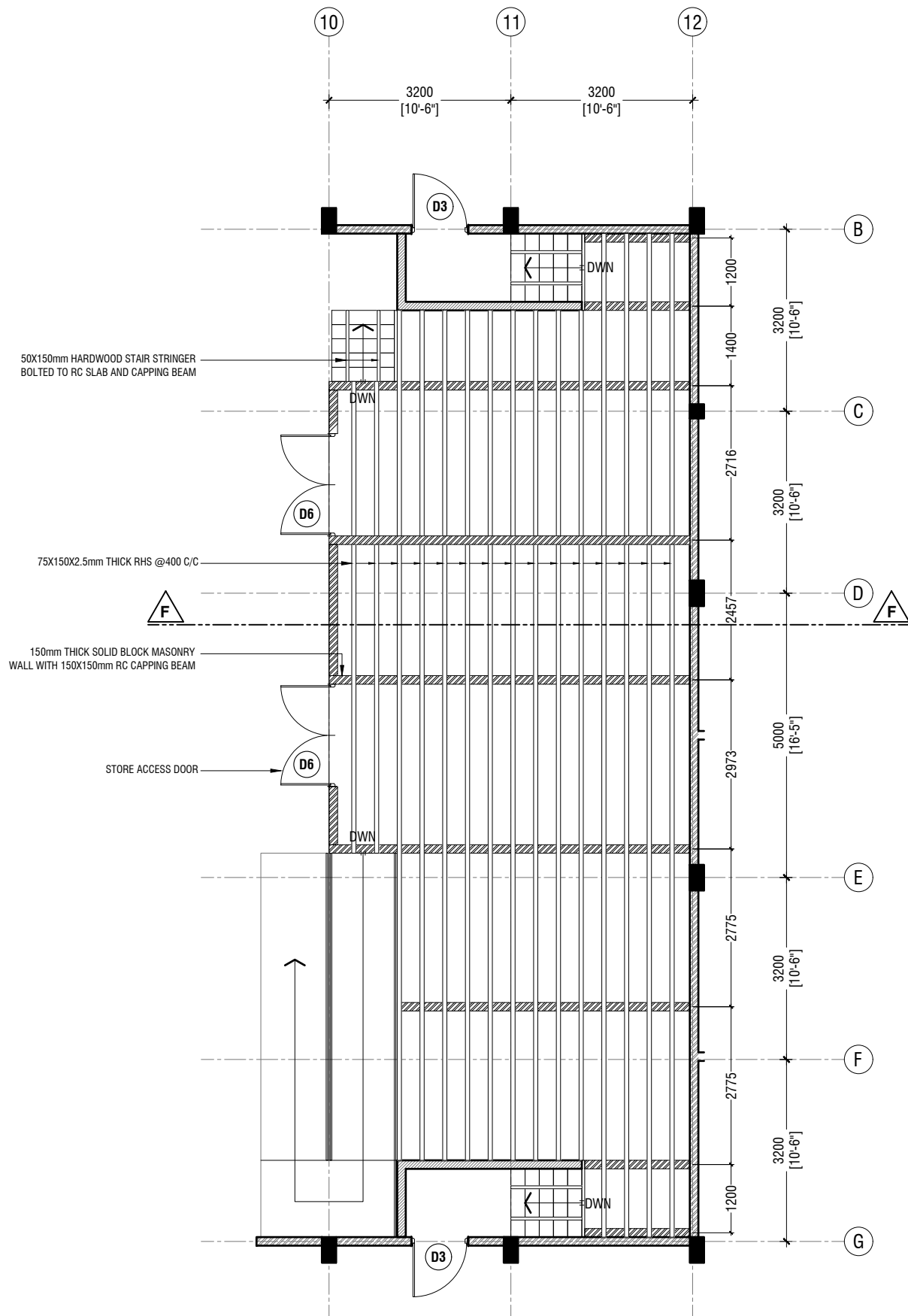


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floor, H. Azum, Ameenemagu, Male'

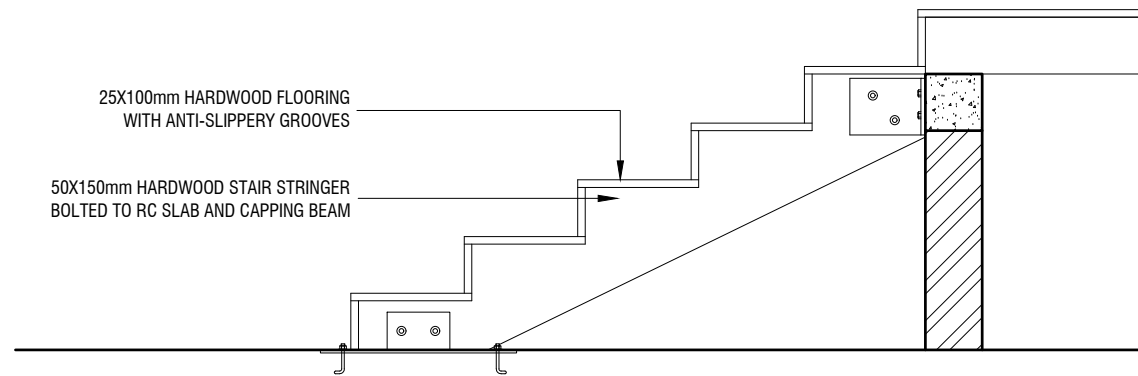
File: Stage Ramp Detail

Page: A-18/19



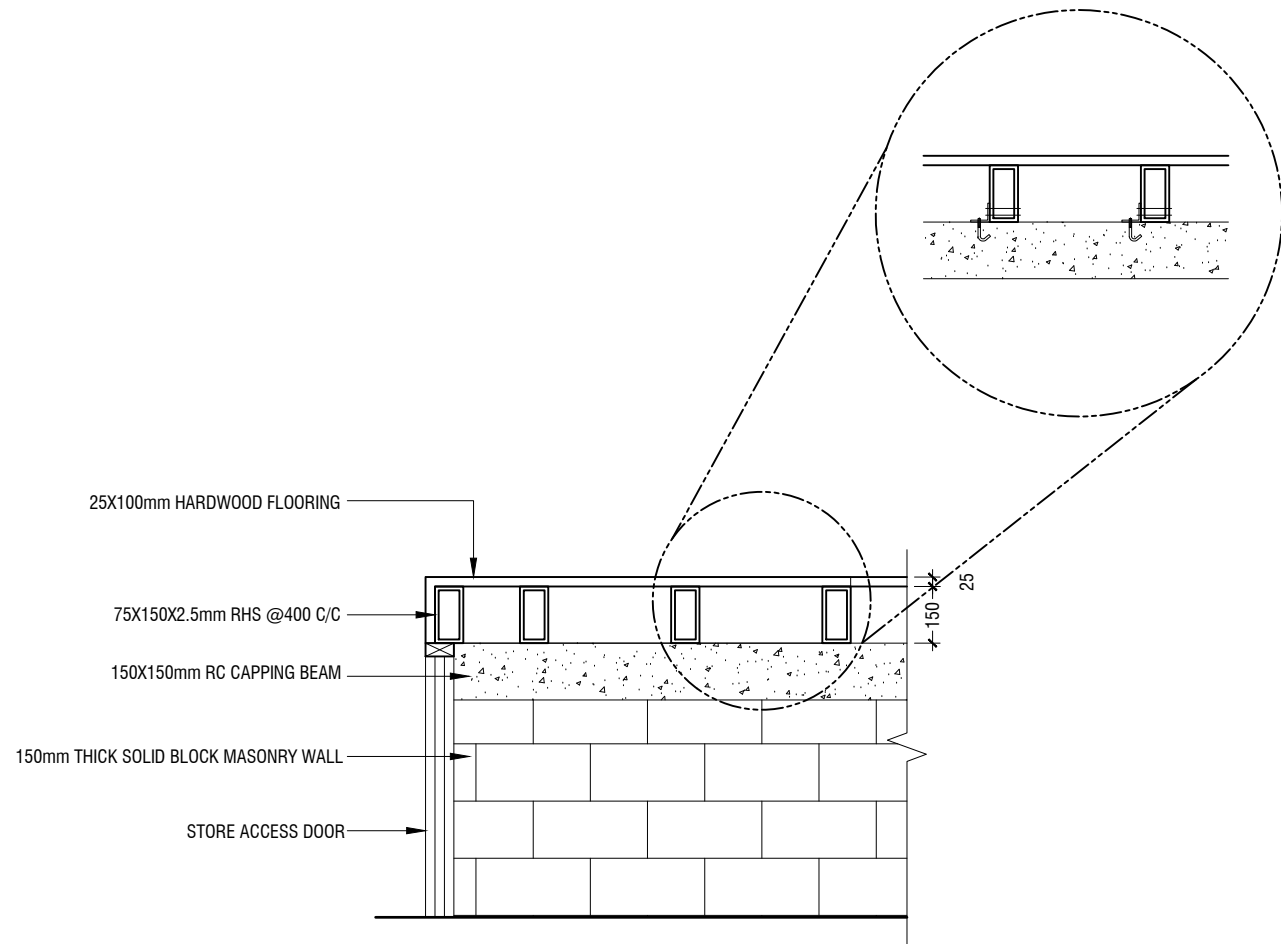
**STAGE FRAMING PLAN**  
SCALE 1:100

0 0.5 1 2 3 4 5



**STAIR DETAIL**  
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



**SECTION F-F**  
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

**GDh.Gadhoo School Hall**  
**Client: Ministry of Education**

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	--	-----
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhair Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: AlShah Ahmed	--	-----
Interior: -	--	-----



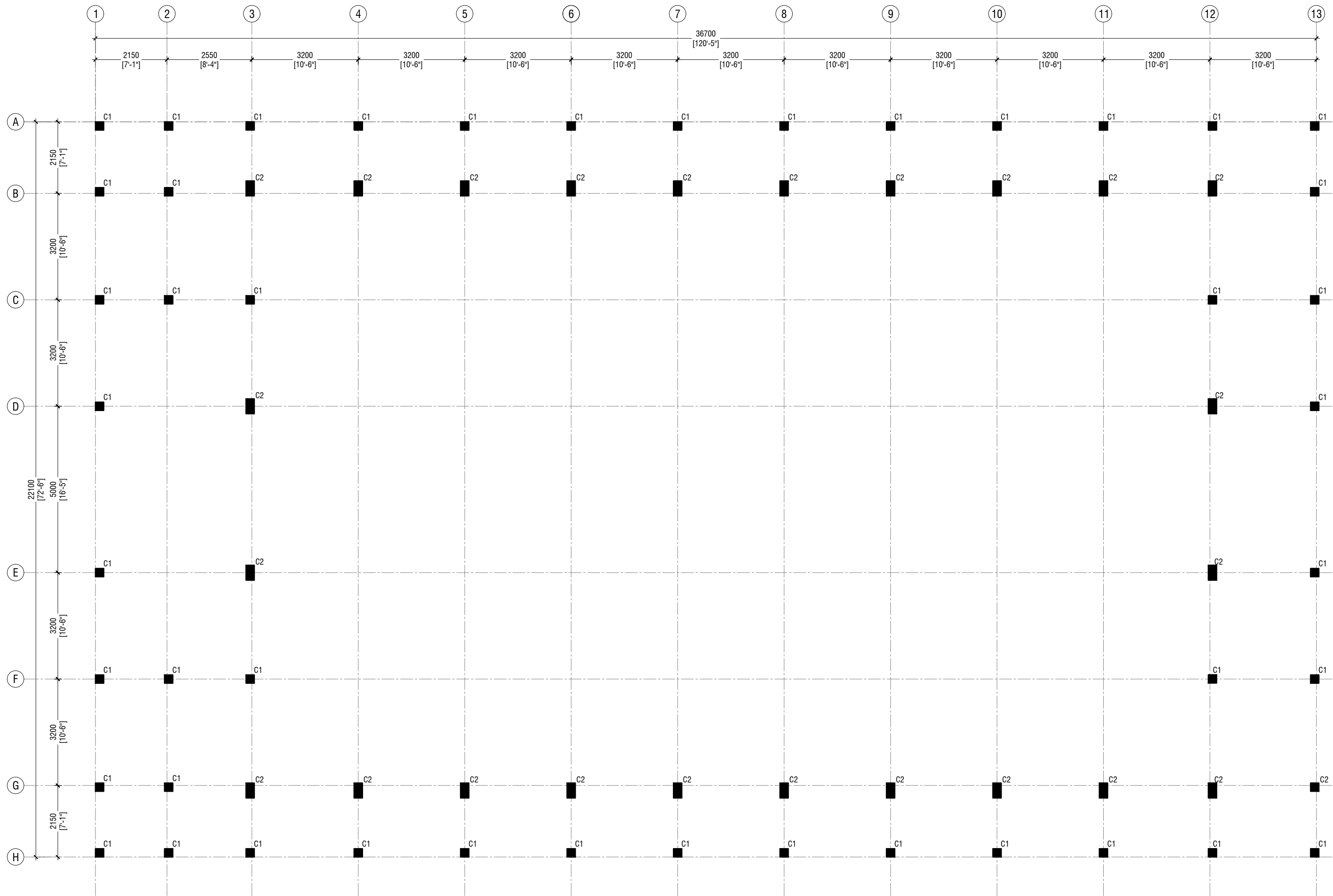
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3rd floor, H. Azum, Ameeleemagau, Male'

Title: Stage Framing Plan & Details  
& Details

Page: A-19/19

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**GROUND FLOOR COLUMN LAYOUT PLAN**

SCALE 1:100



**NOTE:**

**COLUMN SIZES**

C1 : 250 x 250 mm

C2 : 250 x 450 mm

COVER : 35-40mm

GDh Gadhoo School Hall

Client: Ministry of Education

Project Number: RI/2017/02

Date: 2017/02/02

Drawn by: Razana Amir

Engineer: Ahmed Z. J. Al-Zahrani

Services: / Al-Fatih Al-Fatih

Rev no

Date

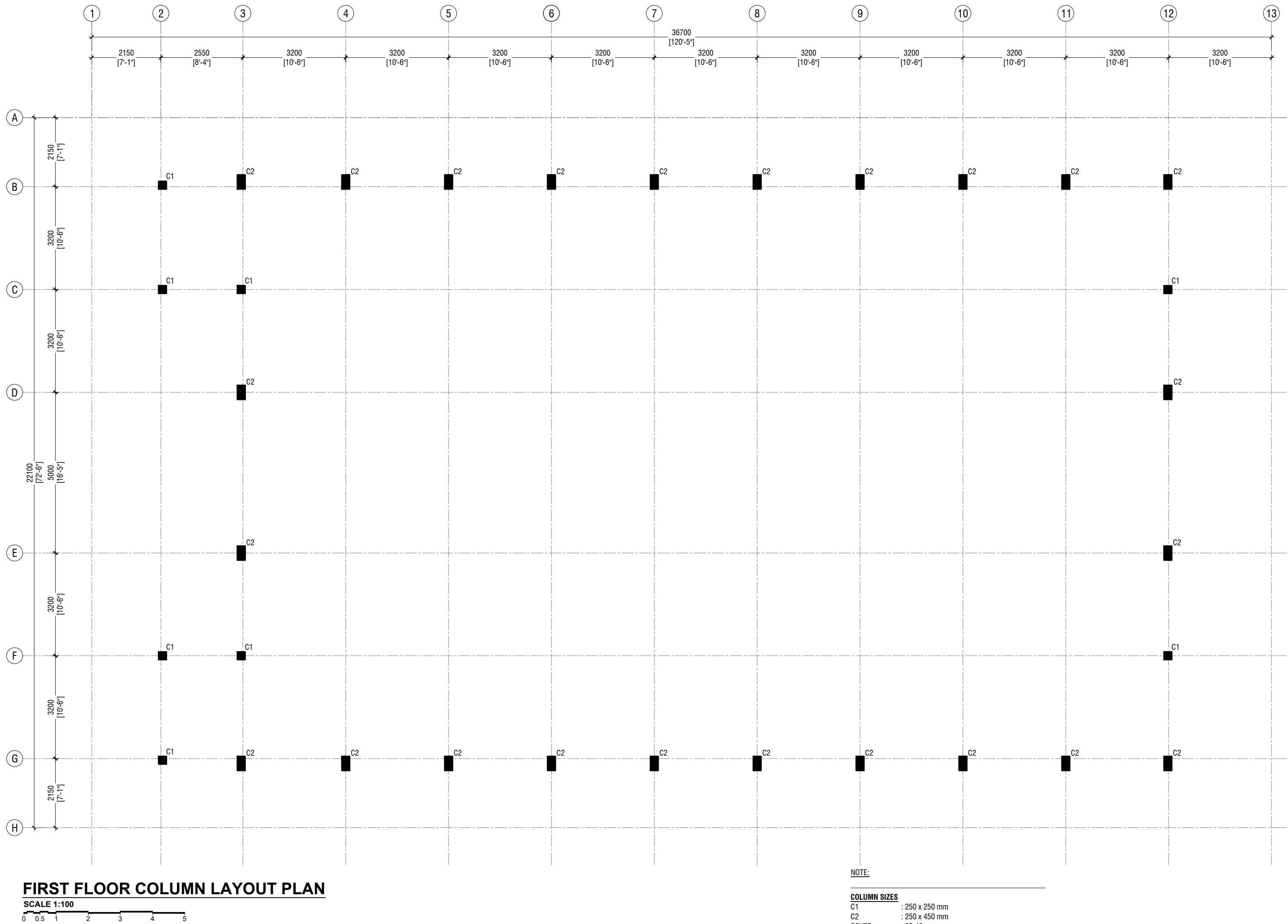
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W: www.riyan.com.mv

3rd Floor, H. Azum, Amman, Jordan

Title: Ground Floor Column Layout Plan

Page: S-01/11



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3rd Floor, H. Azum, Ameeremogga, Male

Title: 1st Floor Column  
Layout Plan

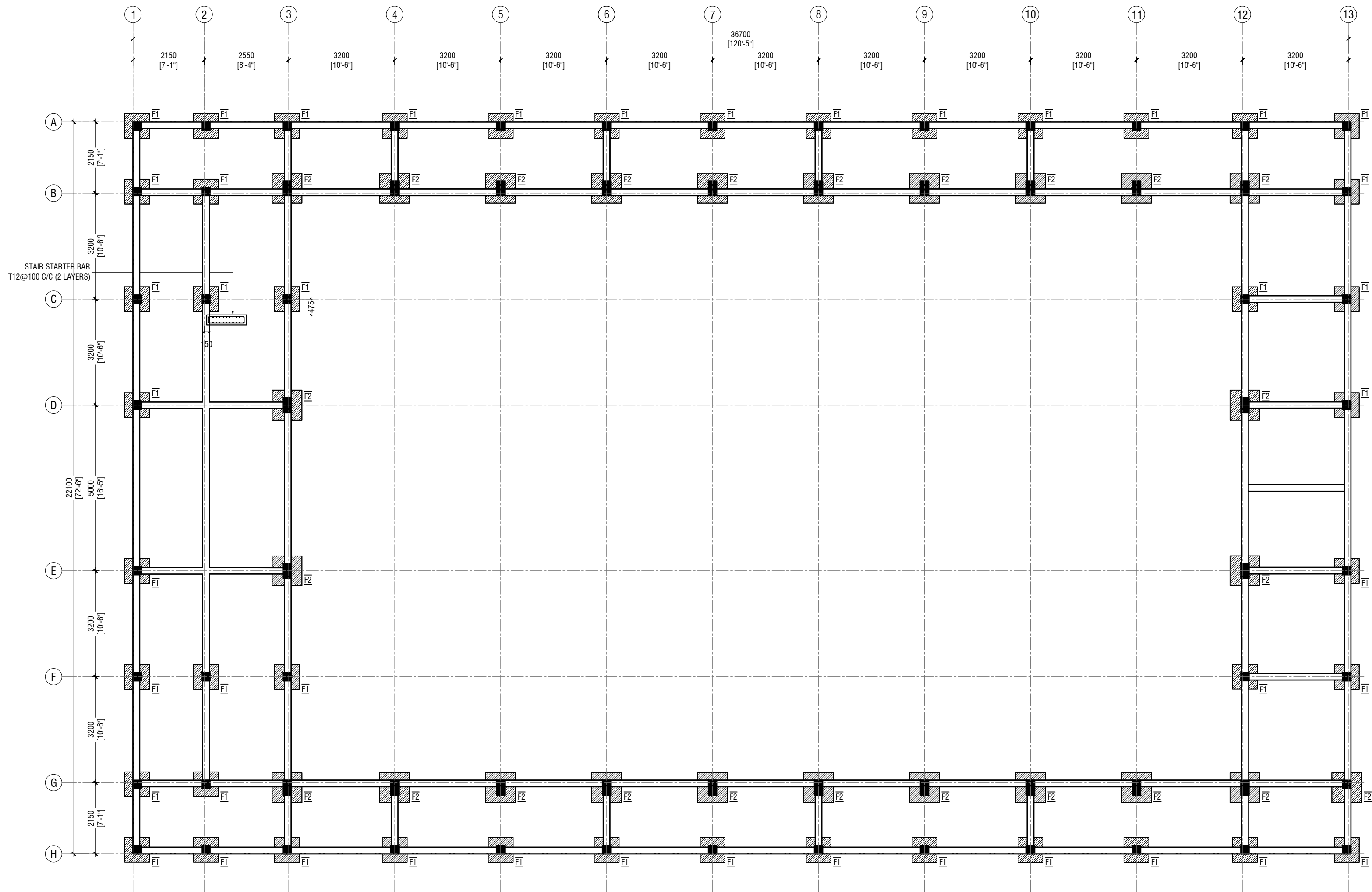
Page: S-02/11

**GDh Gadhoo School Hall**  
**Client: Ministry of Education**

Project Number: RI/2017/02  
Date: 20th June 2015  
Architect: Razana Amir  
Engineer: Ahmed Zuhail Zaeem  
Drawn by: Razana Amir  
Services: Alhath Ahmed  
Interior :

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

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FOUNDATION PLAN

SCALE 1:100



NOTE:

COLUMN SIZES

C1 : 250 x 250 mm  
C2 : 250 x 450 mm  
COVER : 35-40mm

FOUNDATION PAD SIZES

	DIMENSION	REINFORCEMENT
F1	750 x 750 x 250	T10@150 C/C B/W (B)
F2	900 x 900 x 300	T10@100 C/C B/W (B)

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

FB1 : 200 x 400 mm  
COVER : 50mm

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

MIX RATIO = 1:2:3 ( CEMENT : SAND : AGGREGATE )

-150mm THK. SOLID MASONRY BLOCK WALL

RAMP SLAB : 150mm THK RC SLAB ON FILL  
REINFORCED WITH T10@250 C/C BW

GDh Gadho School Hall  
Client: Ministry of Education

Project Number: RI/2017/02  
Date: 2015  
Drawn by: Razana Amir  
Engineer: Ahmed Zuhail Zaeem  
Services: Alhadi Alhadi  
Inspector:

Rev no	Date
1	



RYAN PRIVATE LIMITED

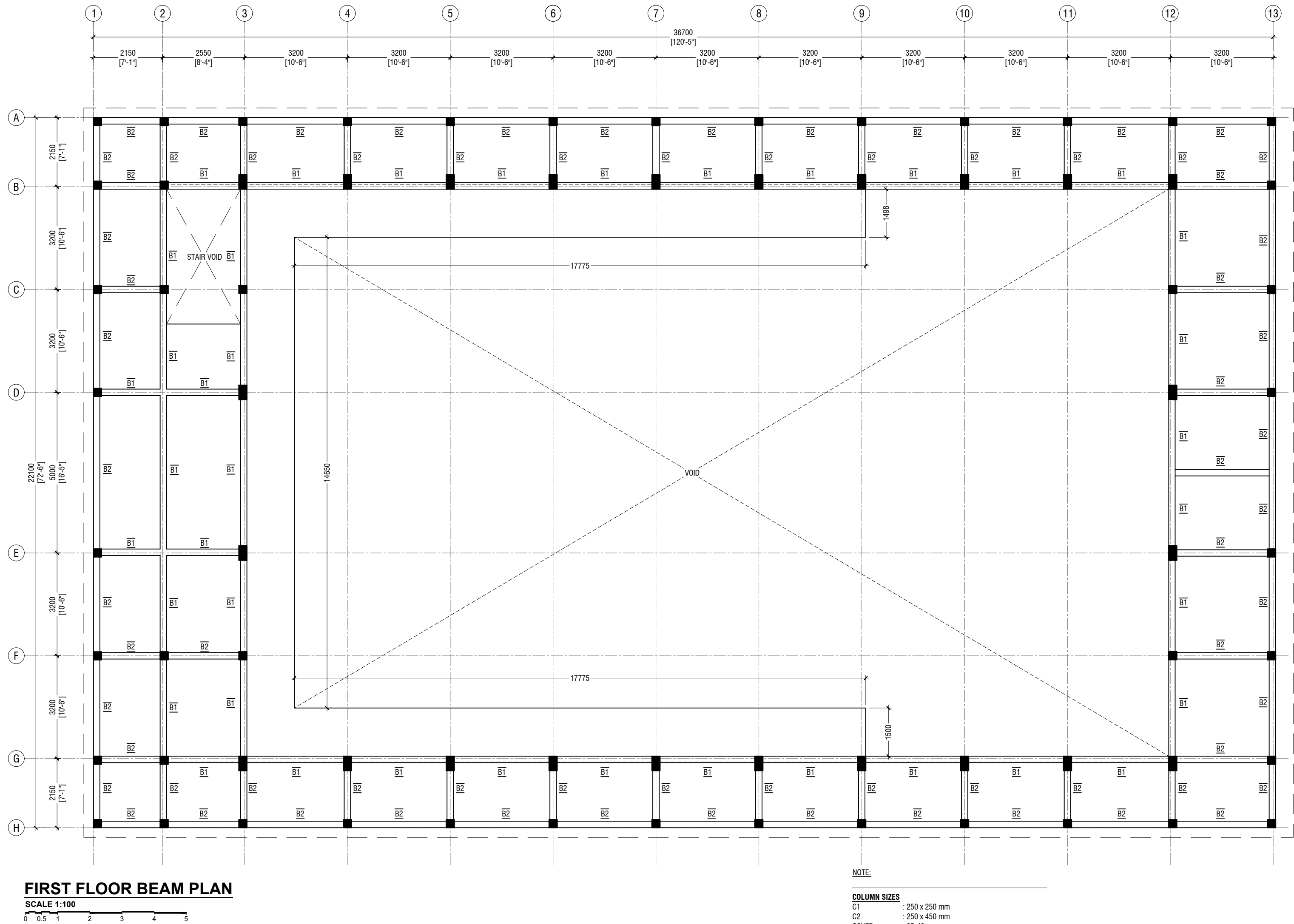
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3rd Floor, H. Azum, Ammanmugha, Malé

Title: Foundation Plan

Page: S-03/11

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GDh Gadhoo School Hall  
Client: Ministry of Education

Rev no	Date
1	2015
2	2015
3	2015
4	2015
5	2015
6	2015
7	2015
8	2015
9	2015
10	2015
11	2015
12	2015
13	2015



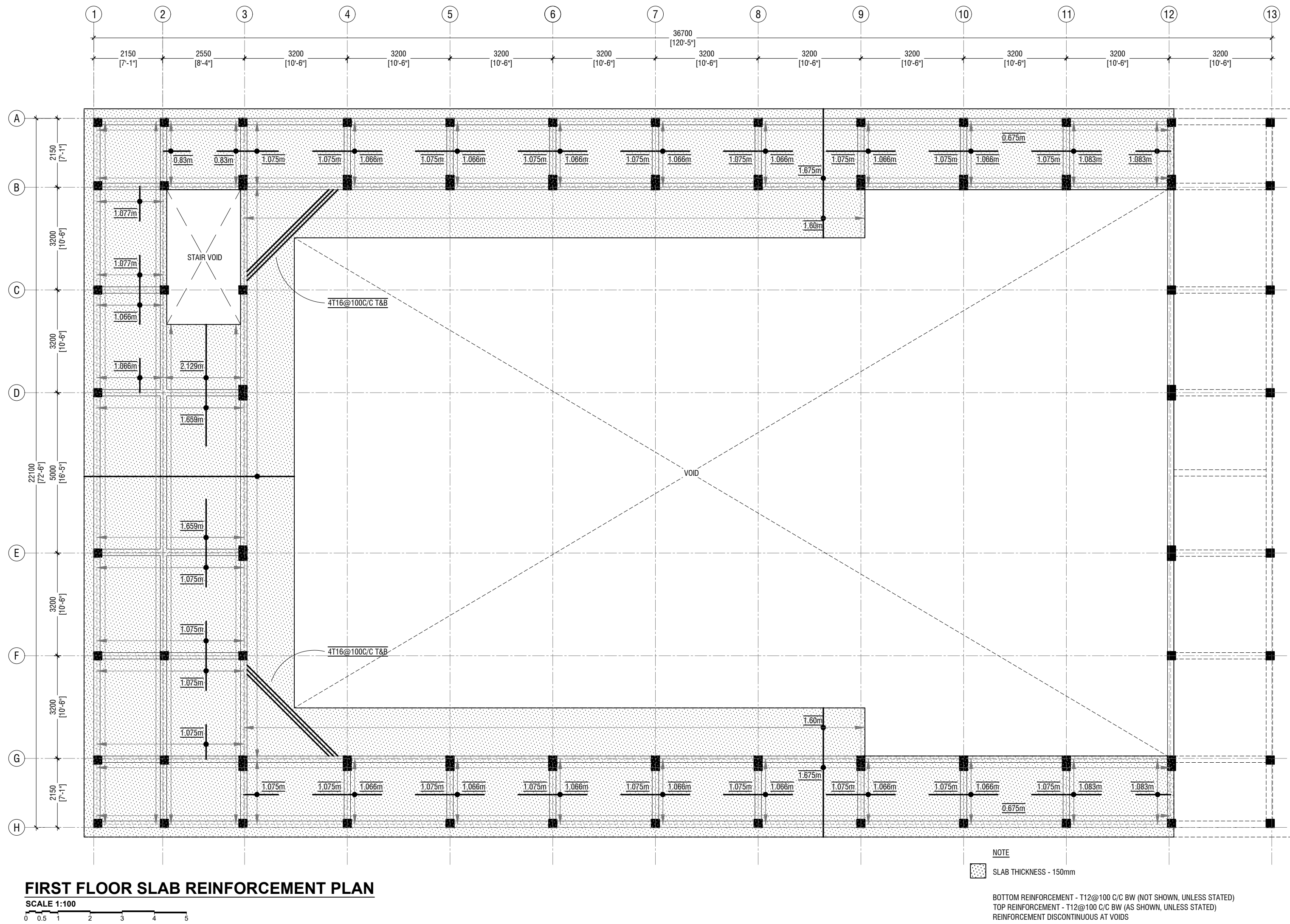
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E: info@ryan.com.mv  
W: www.ryan.com.mv  
3rd Floor, H. Azumi, Amarammugala, Male

Title: 1st Floor Beam Plan

Page: S-04/11

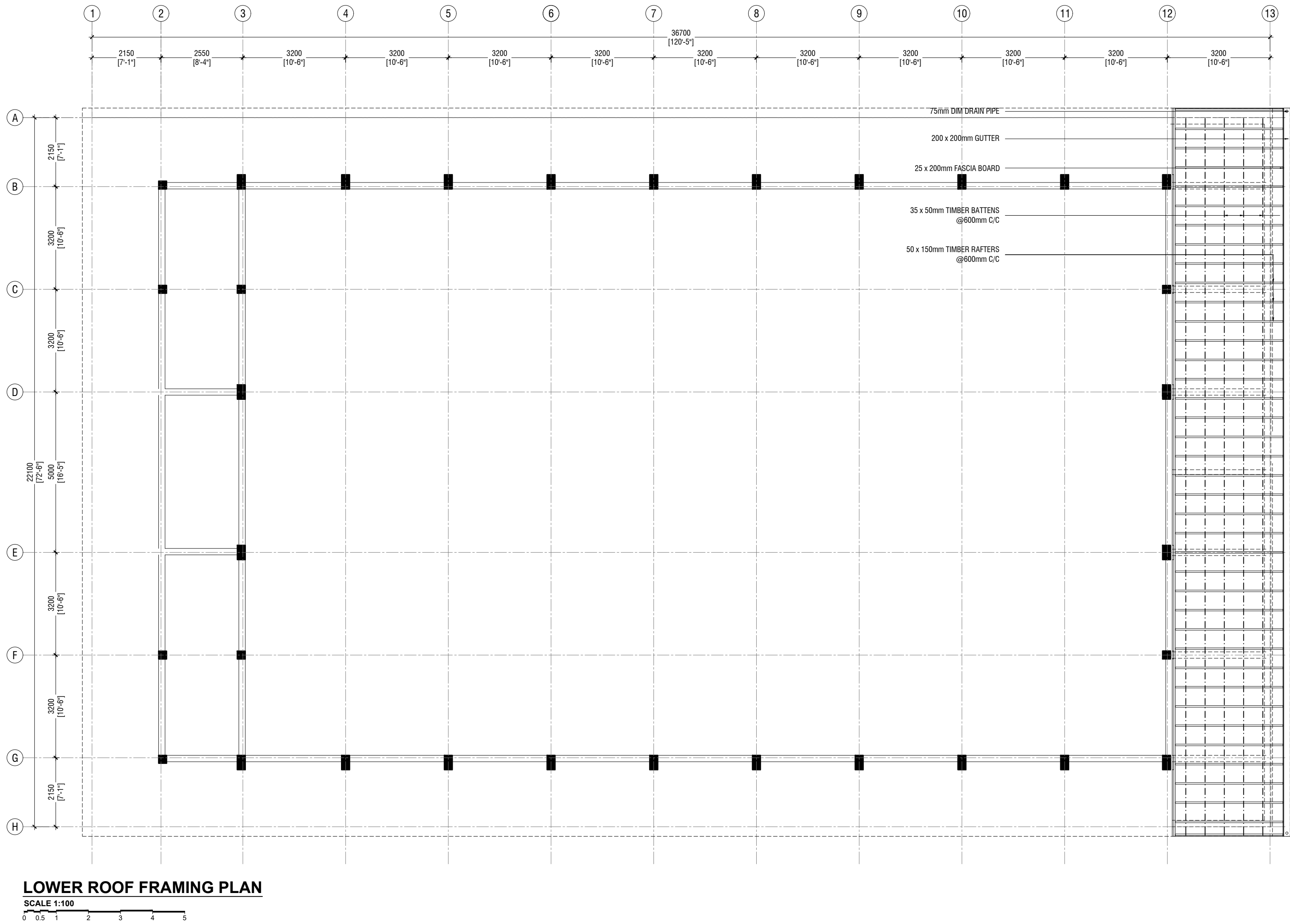
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GDh Gadho School Hall  
Client: Ministry of Education

Rev no	Date
1	2015
2	2015
3	2015
4	2015
5	2015
6	2015
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11	2015
12	2015
13	2015

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

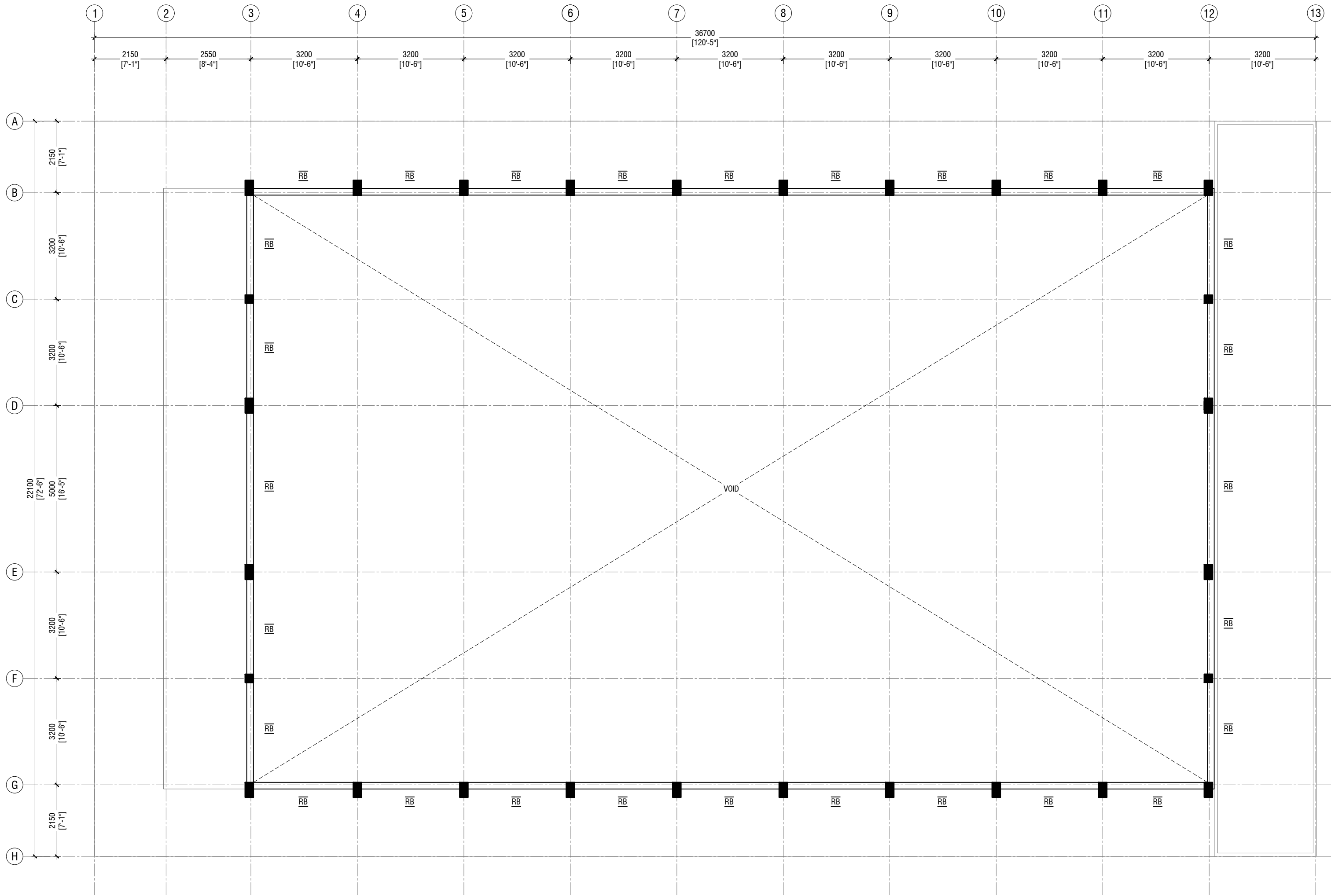
Title: Lower Roof Framing Plan  
Page: S-06/11

GDh Gadhoo School Hall  
Client: Ministry of Education

Rev no	Date
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12	2015
13	2015

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ROOF BEAM LEVEL - 2 PLAN (+8200)

SCALE 1:100  
0 0.5 1 2 3 4 5

NOTE:

COLUMN SIZES

C1 : 250 x 250 mm  
C2 : 250 x 450 mm  
COVER : 35-40mm

BEAM SIZES

B1 : 200x425 mm  
B2 : 200x350 mm  
RB : 200x300 mm  
COVER : 35mm

MIX RATIO = 1:2:3 ( CEMENT : SAND : AGGREGATE )

GDh Gadhoo School Hall  
Client: Ministry of Education

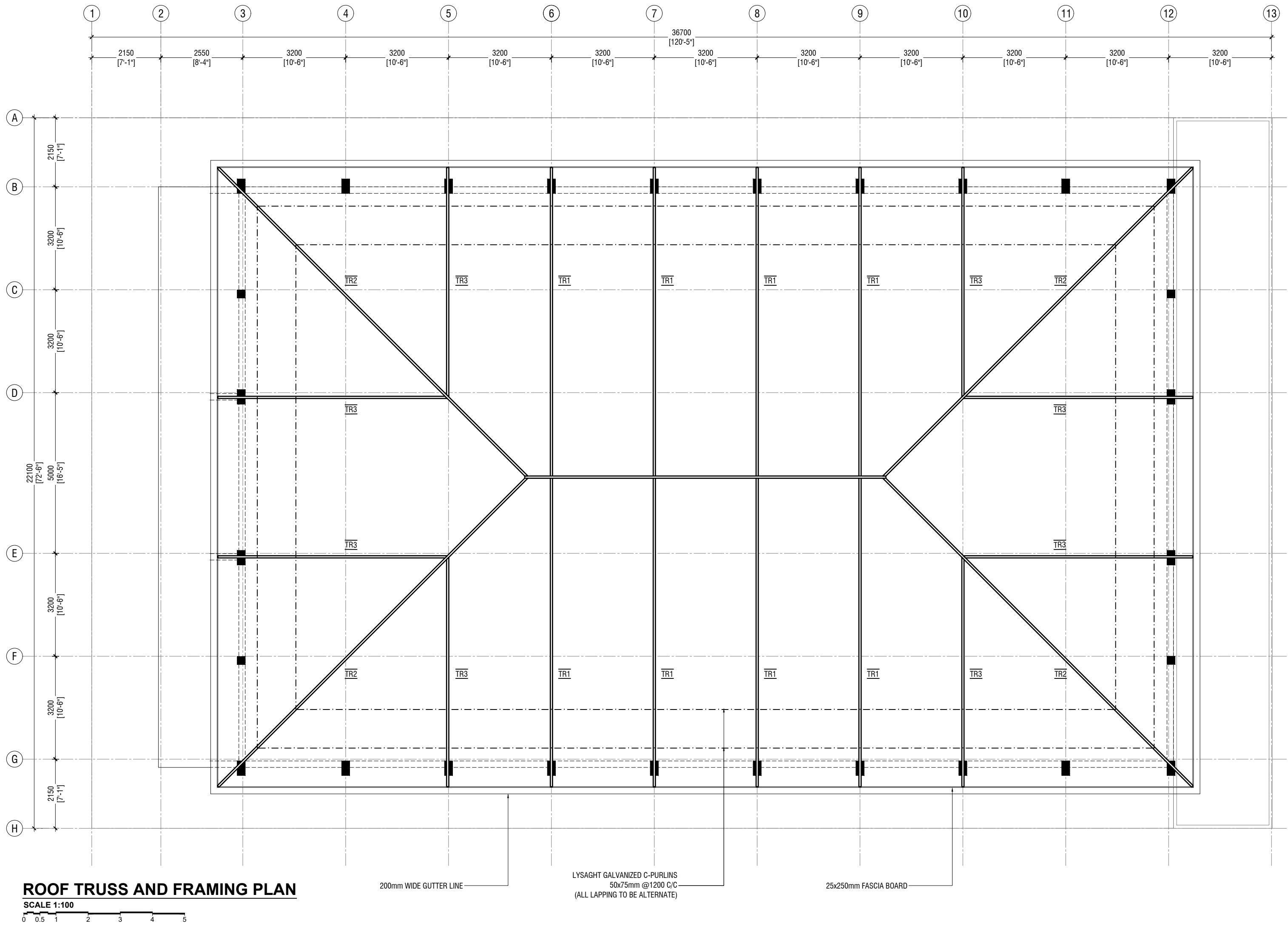
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6	2015
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11	2015
12	2015
13	2015



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3rd floor, H. Azumi, Amarammugala, Male'  
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Title: Roof Beam Level - 2 P  
Plan

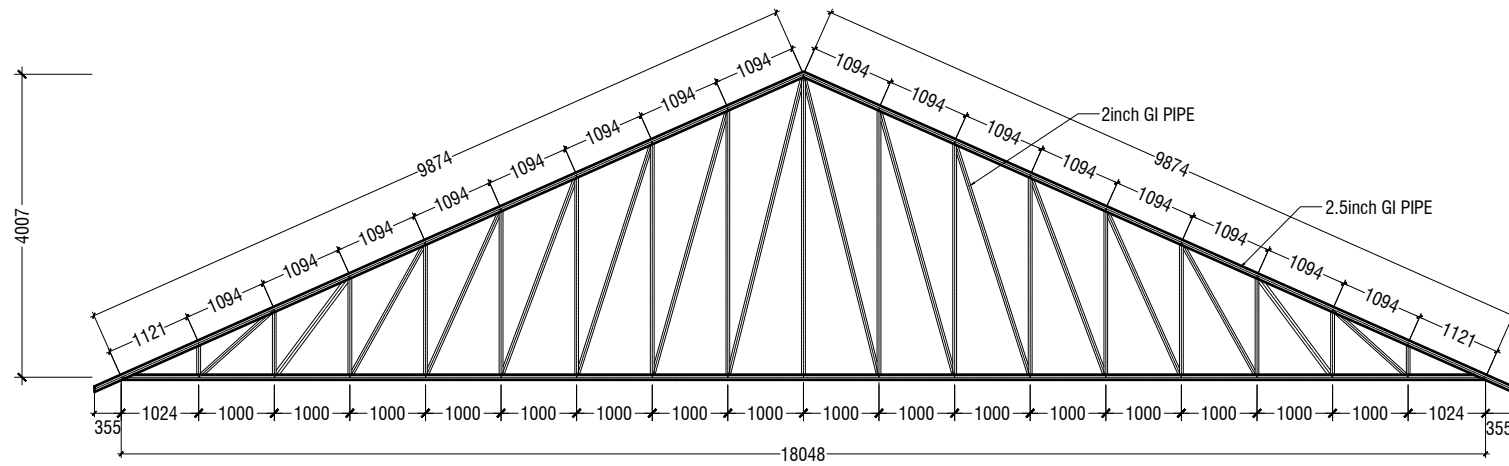
Page: S-08/11



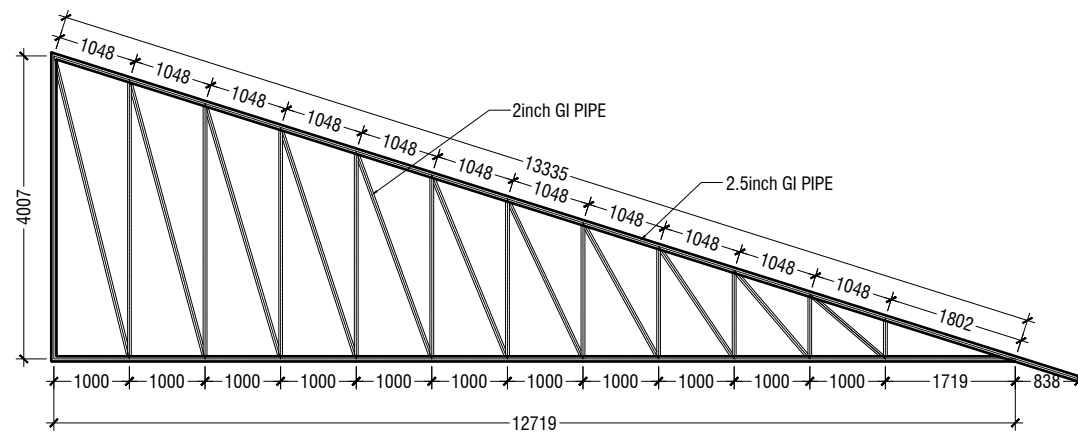
GDh Gadhoo School Hall  
Client: Ministry of Education

Rev no	Date
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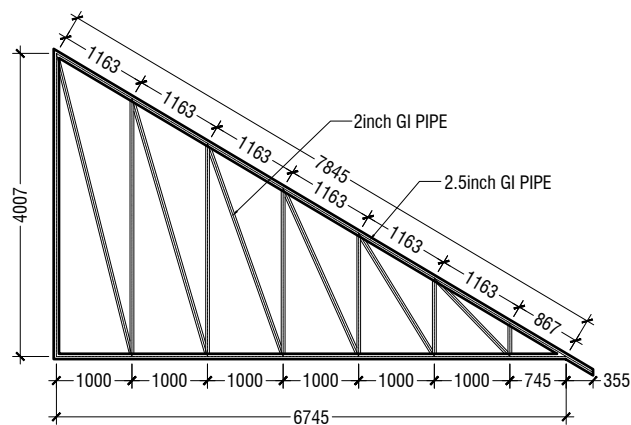




**TRUSS TYPE TR1**

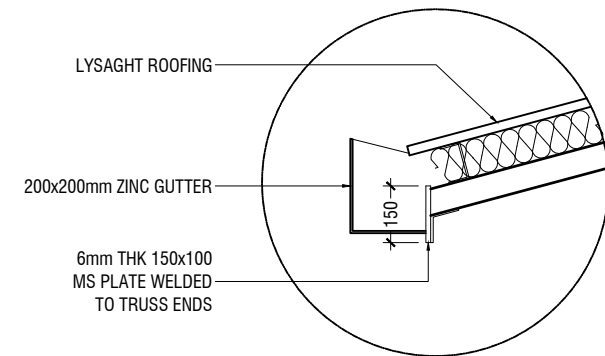
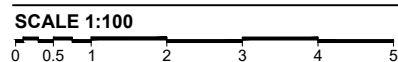


**TRUSS TYPE TR2**



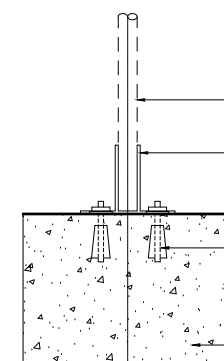
**TRUSS TYPE TR3**

**ROOF TRUSS DETAILS**



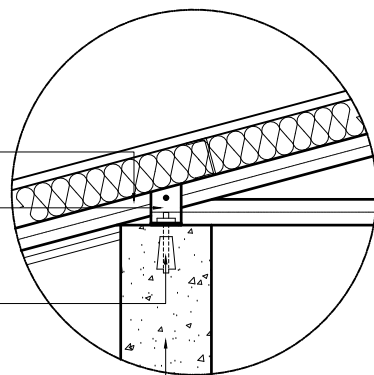
**GUTTER/FASCIA DETAIL**

SCALE 1:20



**ELEVATION**

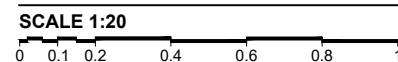
SCALE 1:20



**SECTION**

SCALE 1:20

**TYPICAL TRUSS FIXING DETAILS**



**GDh.Gadhoo School Hall**  
**Client: Ministry of Education**

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	--	-----
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhail Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: Alshah Ahmed	--	-----
Interior: -	--	-----



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

Title: Roof Truss Details

Page: S-10/11

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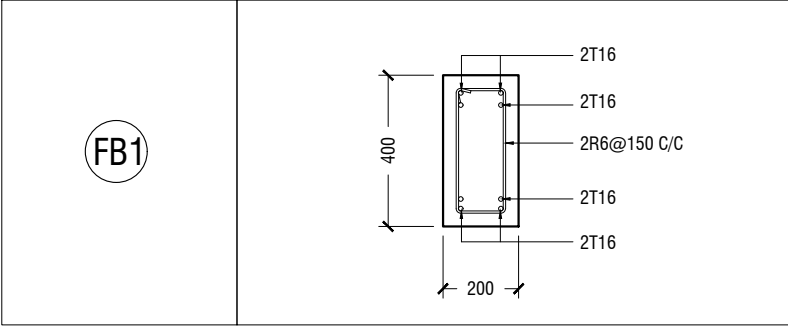
	DIMENSION	REINFORCEMENT
F1	750 x 750 x 250	T10@150 C/C B/W (B)
F2	900 x 900 x 300	T10@100 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

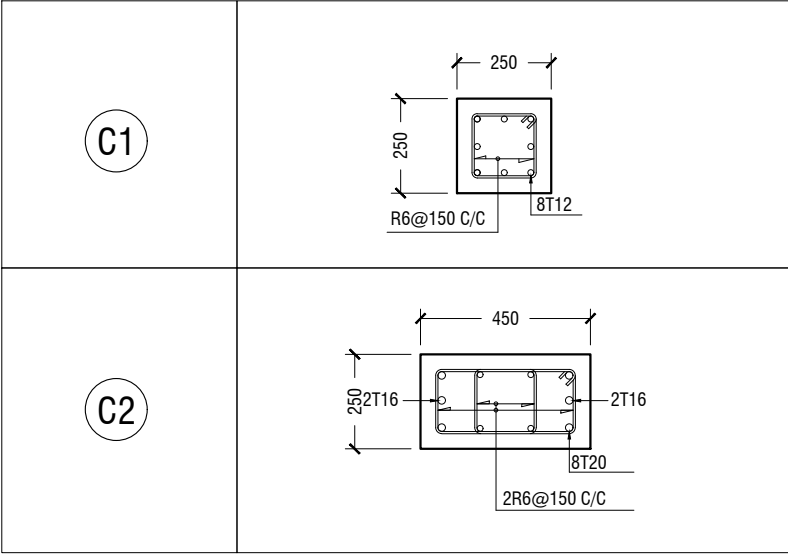
NOTE:-  
COVER TO FOUNDATION = 50mm  
COVER TO COLUMNS = 35-40mm  
COVER TO BEAMS = 35mm  
LAPS = Ø OF BAR x 45  
BEAMS @END SUPPORT = Ø OF BAR x 12

MIX RATIO = 1:2:3 ( CEMENT : SAND : AGGREGATE )

FOUNDATION PADS

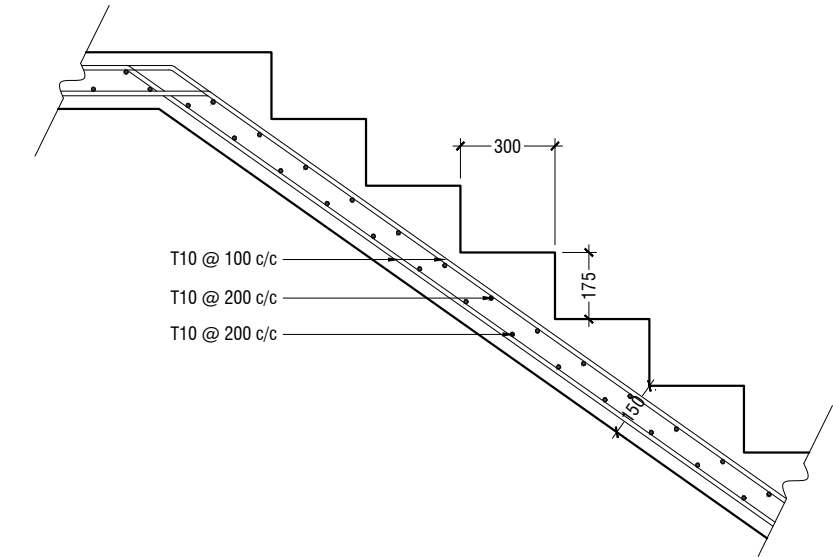


FOUNDATION DETAILS

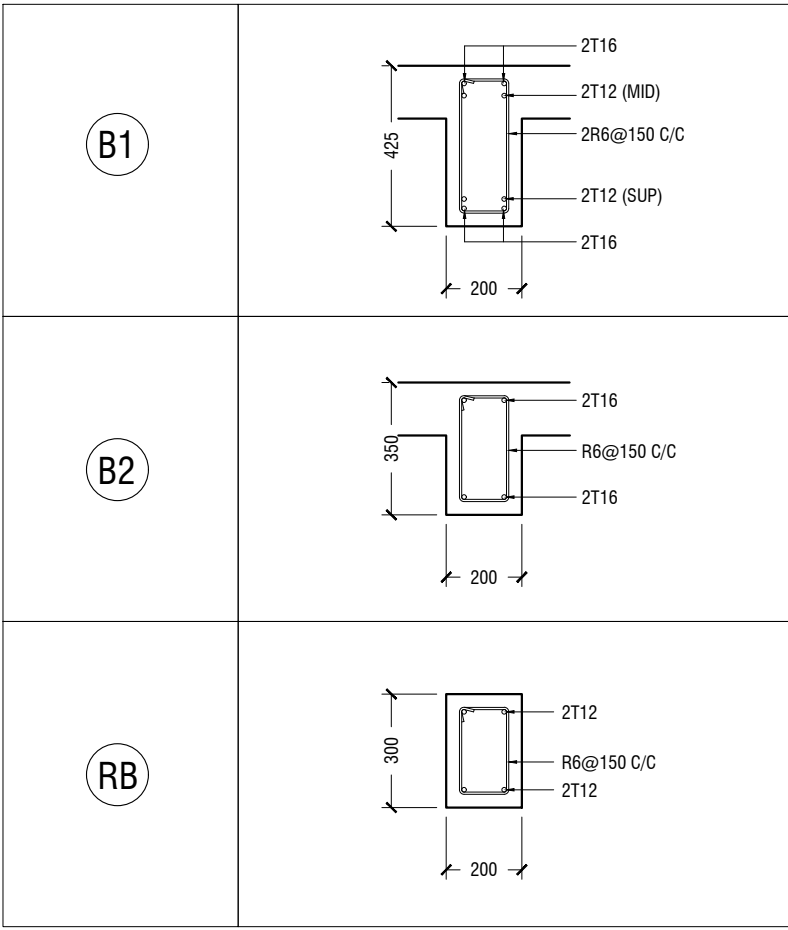


COLUMN DETAIL

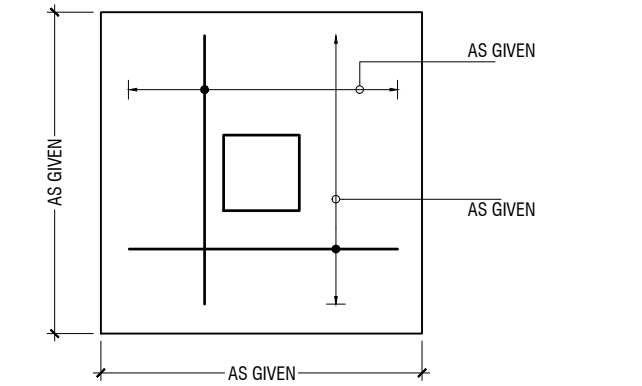
STRUCTURAL DETAILS



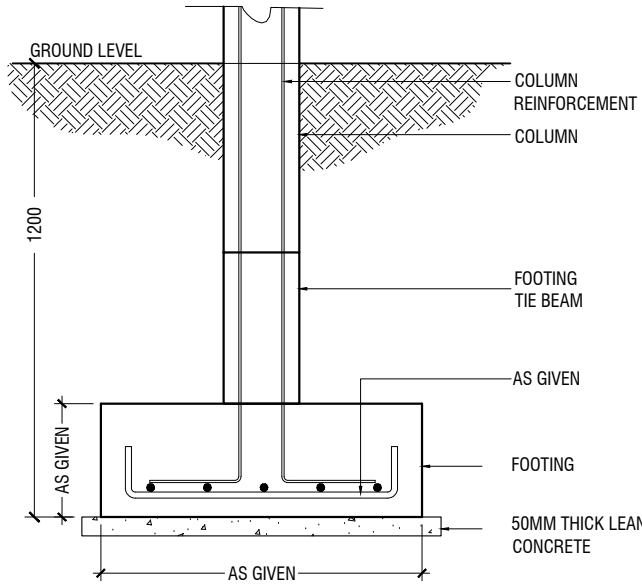
MAIN STAIRCASE REINFORCEMENT DETAIL



BEAM DETAIL



PLAN



SECTION

FOOTING DETAILS

GDh.Gadhoo School Hall  
Client: Ministry of Education

Rev no	Date
1	June 2019
2	
3	
4	
5	



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Page: S-11/11

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