

Proposed 12 Classroom at  
S.Maradhoo, Maradhoo Feydhoo  
Irushadhiyya School  
(04 Storey)

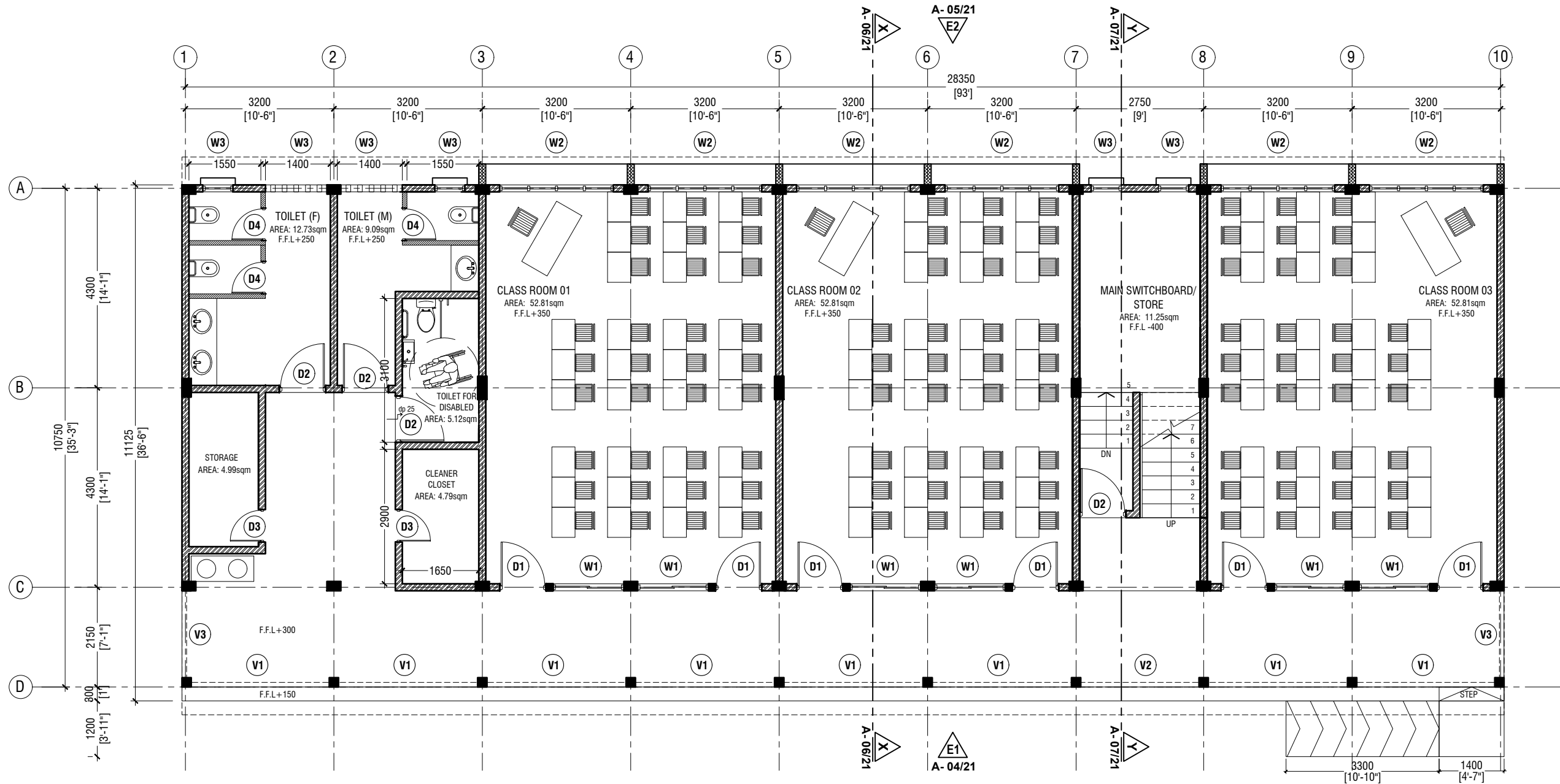
*ARCHITECTURAL & STRUCTURAL DRAWINGS*  
Client: Ministry of Education



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

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## GROUND FLOOR PLAN

SCALE 1:100



### NOTE:

- PROPOSED 150mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH



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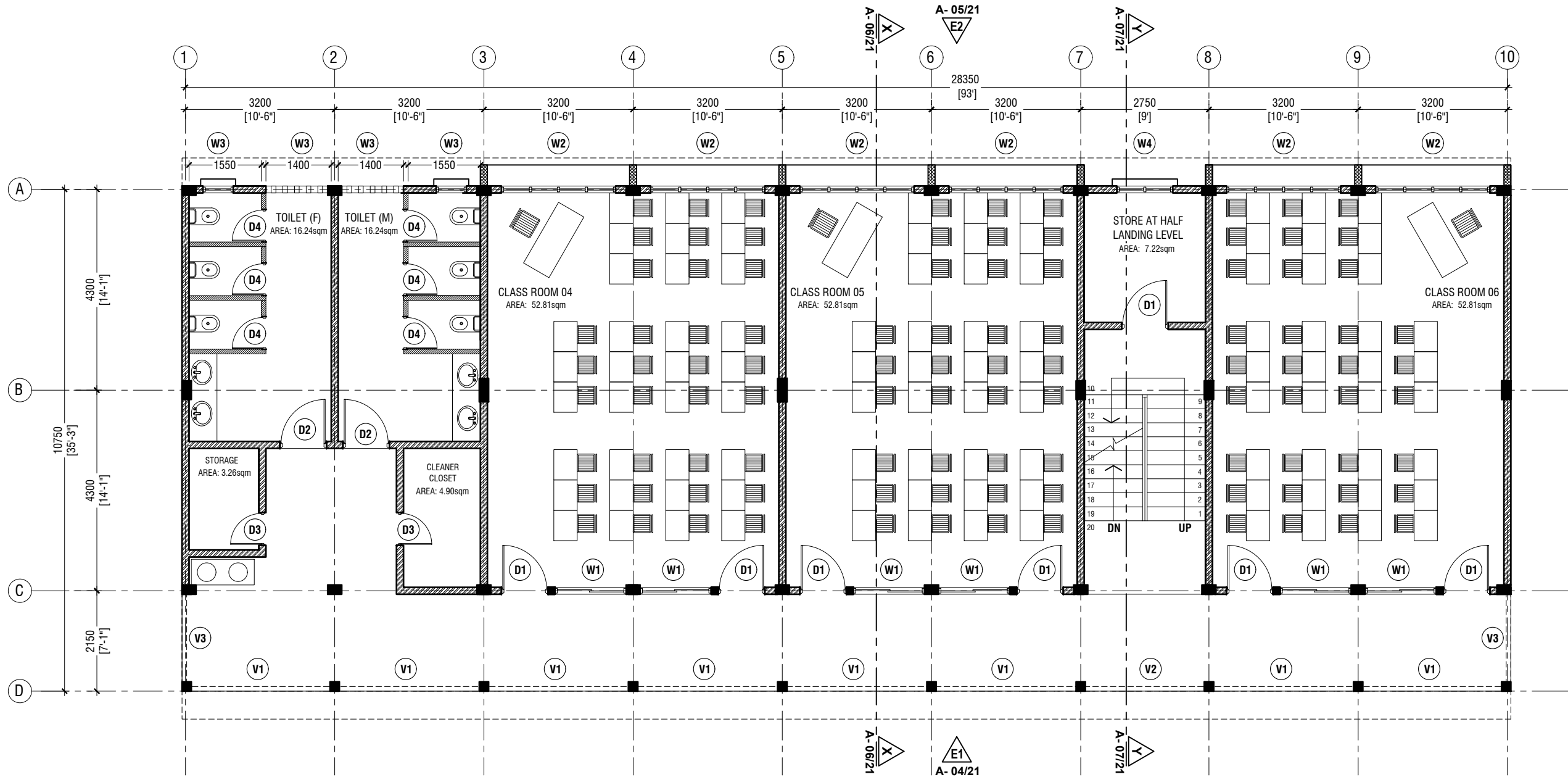
S. Maradhoo, Maradhoo Feydhoo  
Irushadhiyya School - 12 Classroom (04 Storey)  
Client: Ministry of Education

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

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Title: Ground Floor Plan

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FIRST - THIRD FLOOR PLAN

SCALE 1:100



NOTE:

- PROPOSED 150mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
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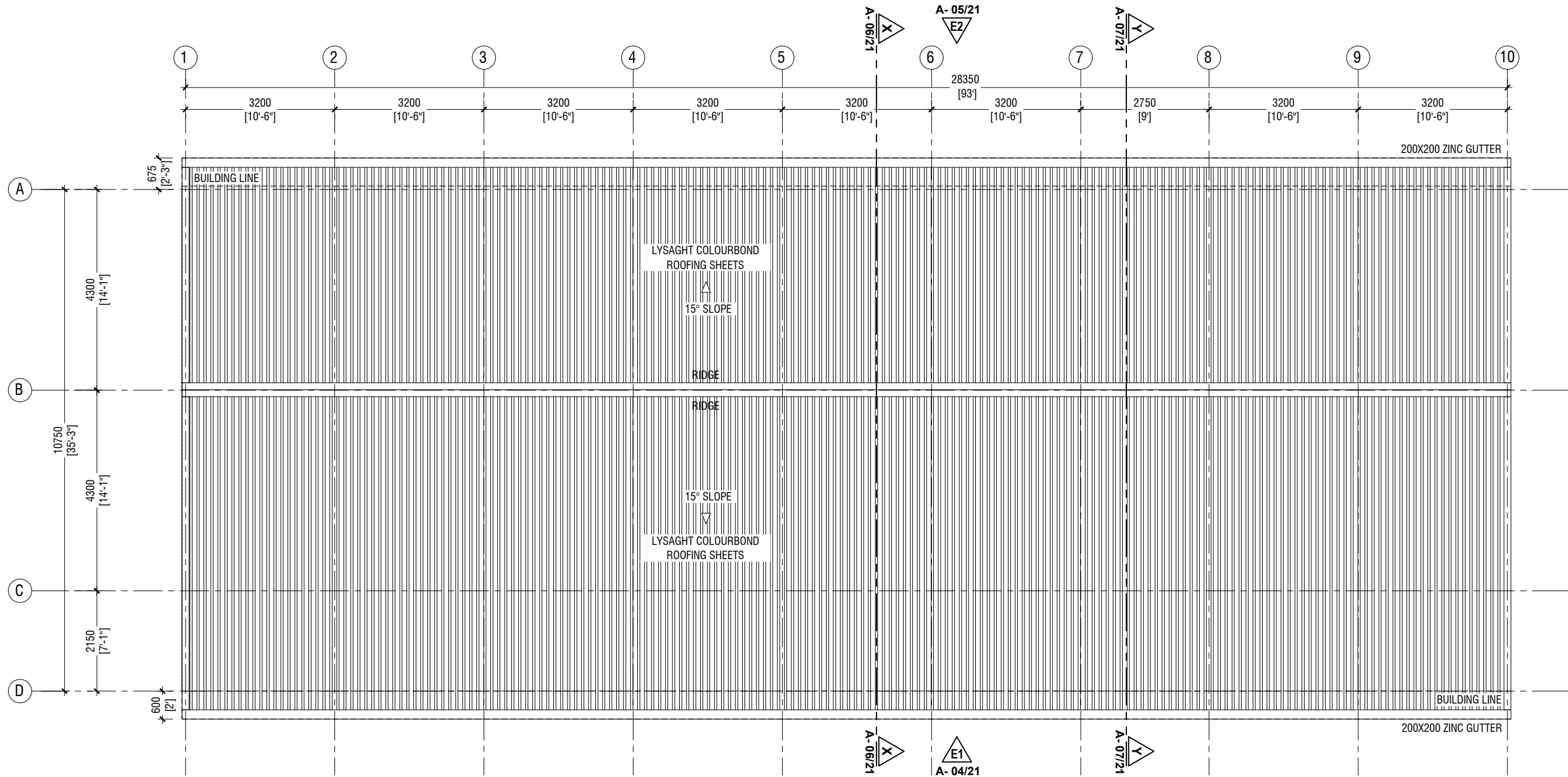
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Title: First - Third Floor Plan

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ROOF PLAN

SCALE 1:100



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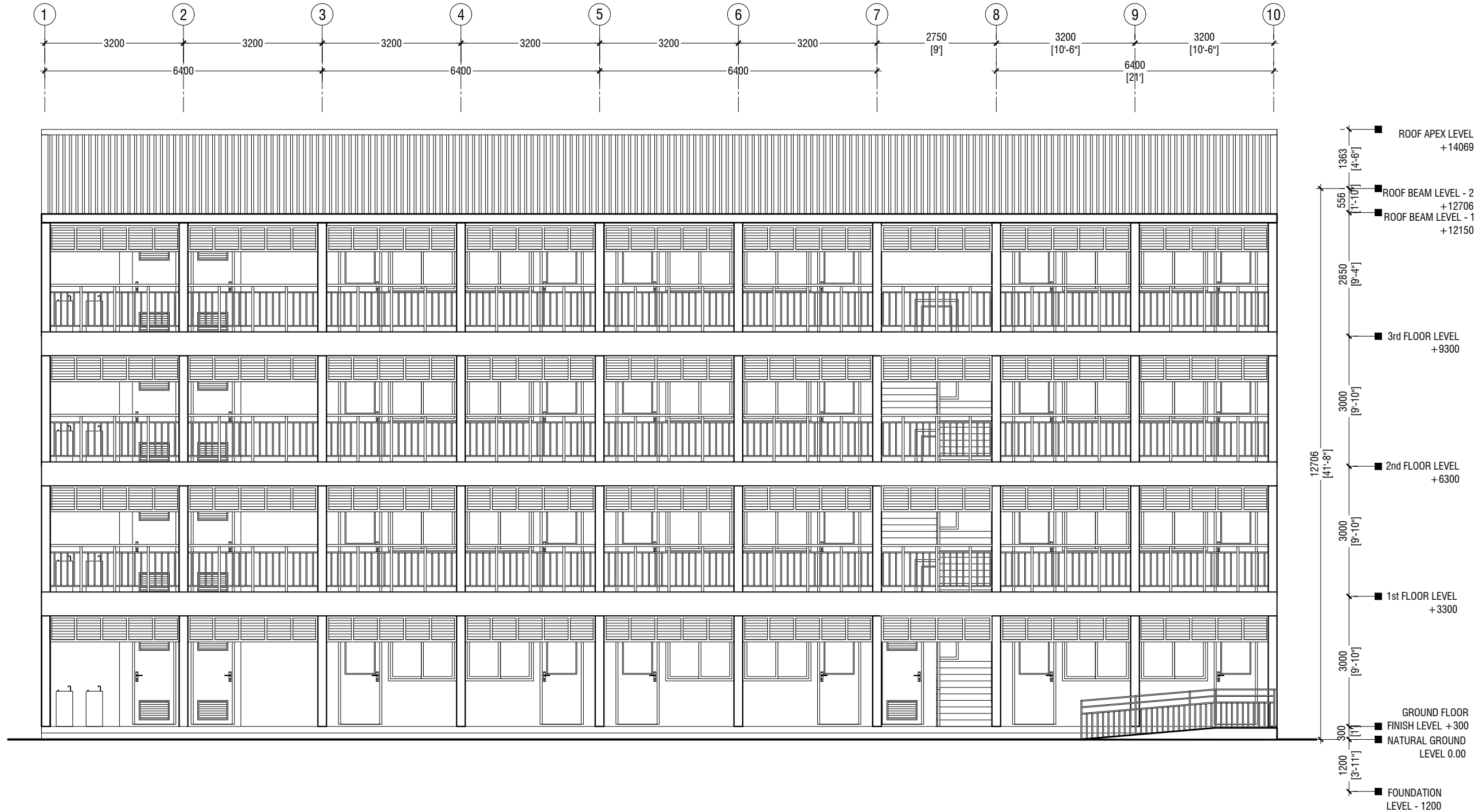
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Title: Roof Plan

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## ELEVATION E1

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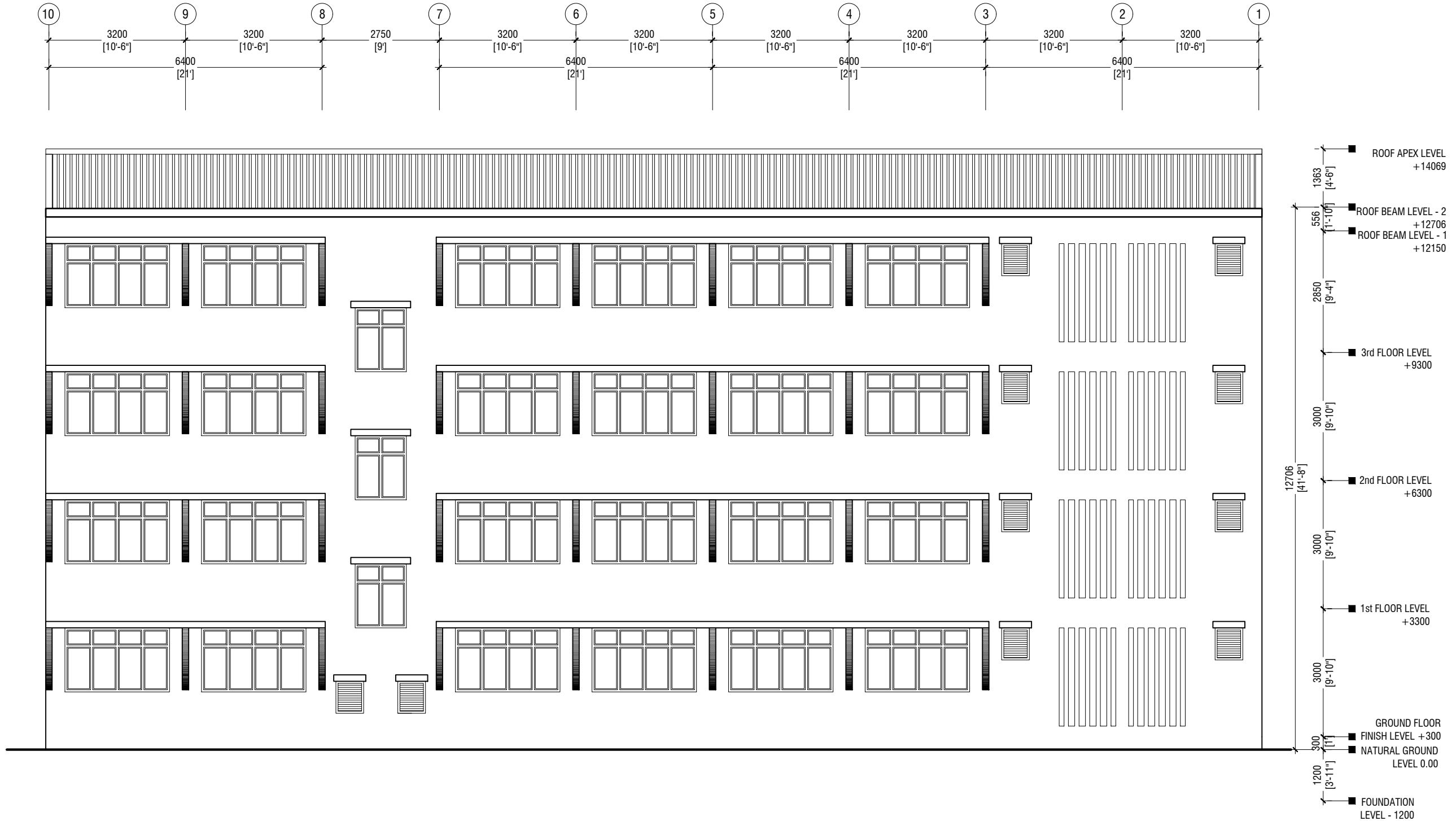
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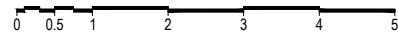
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## ELEVATION E2

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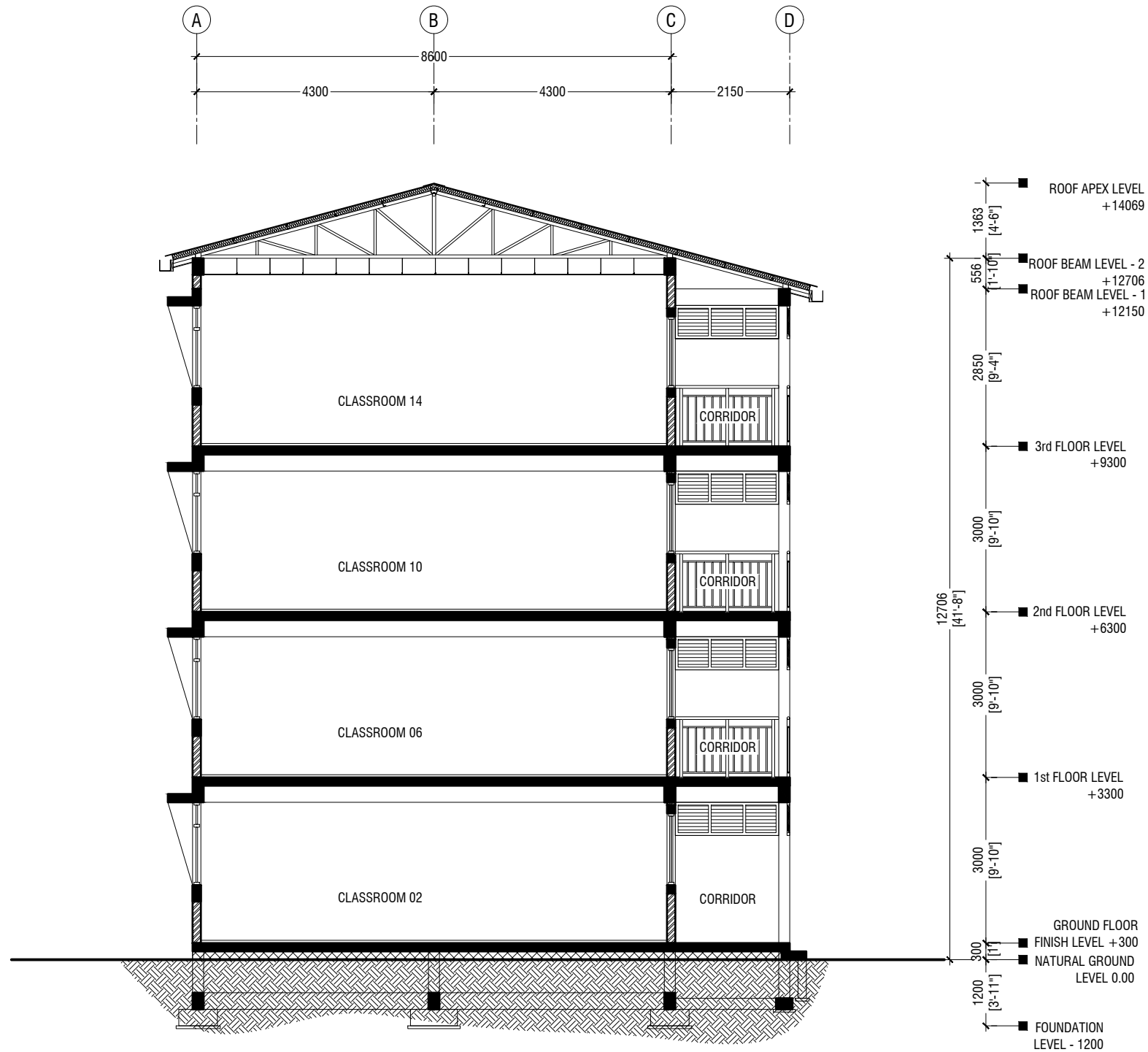
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Title: Elevation E2

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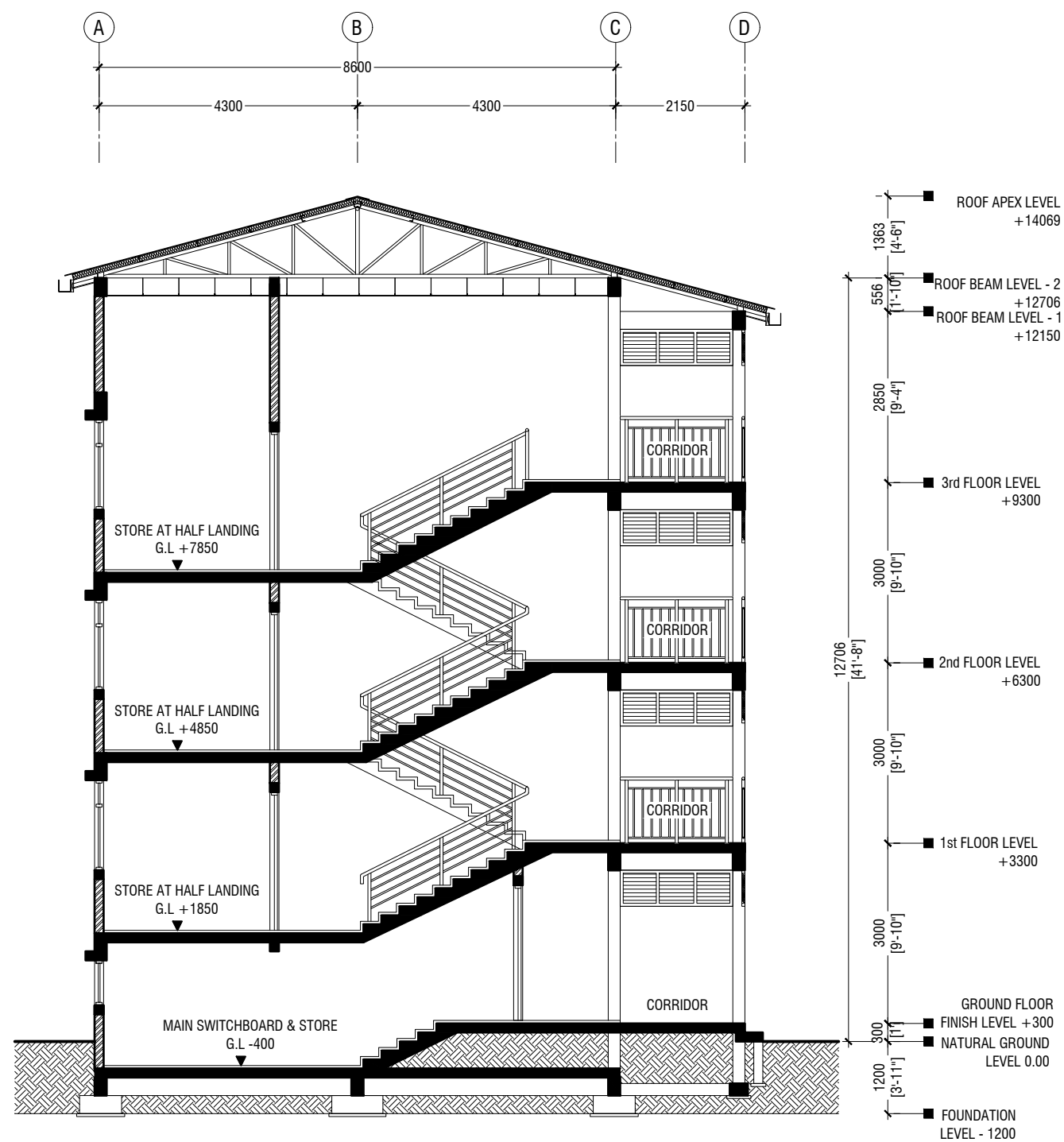
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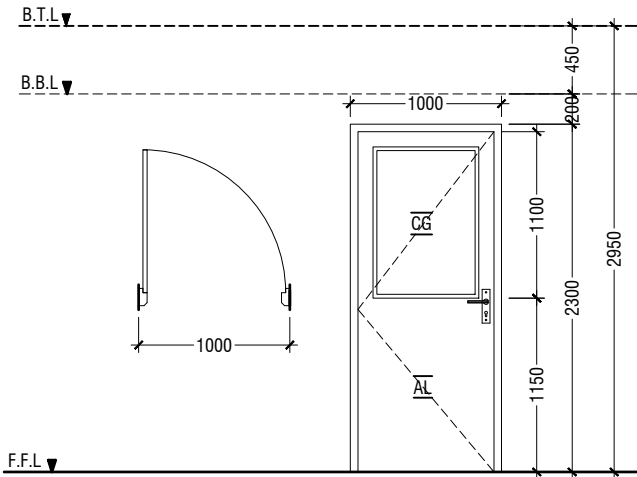
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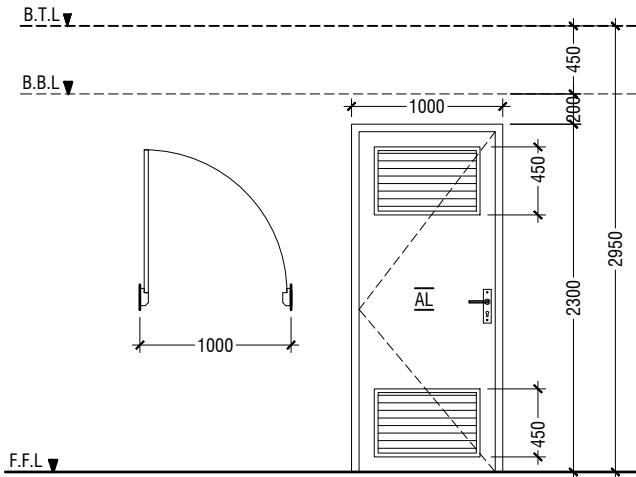
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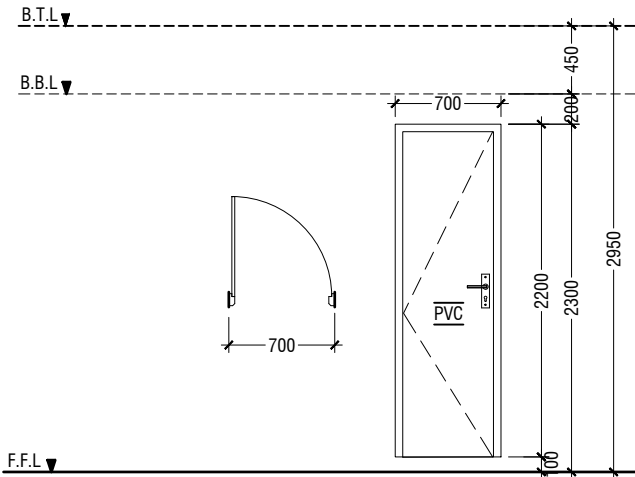




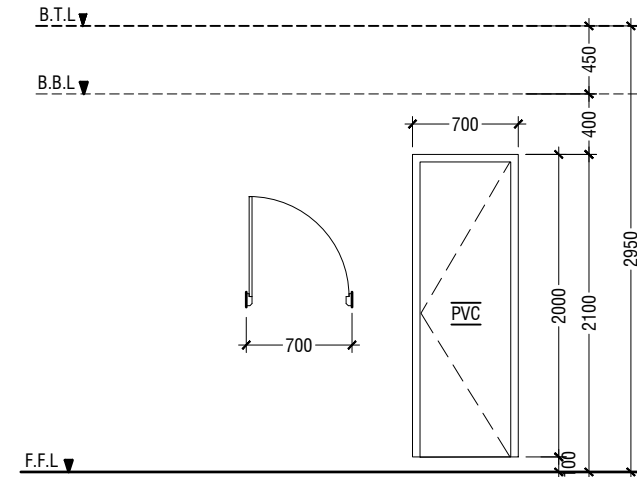
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS & HALF LANDING STORE ROOM
QUANTITY	27 NOS
OPEN AREA	2.03 sqm



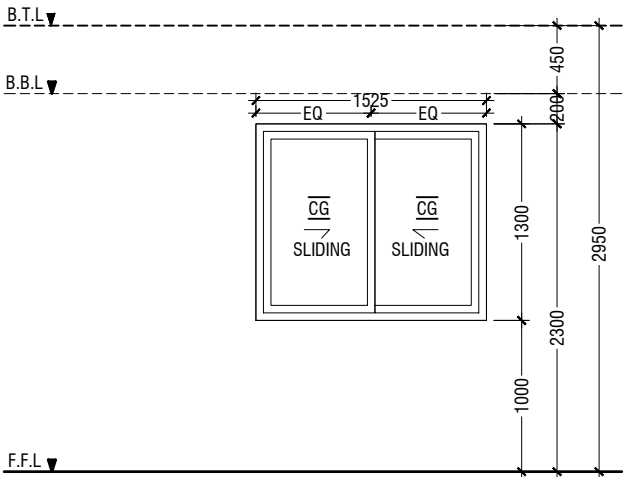
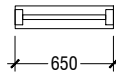
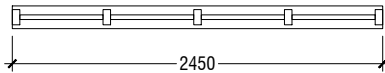
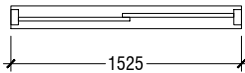
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	10 NOS
OPEN AREA	2.03 sqm



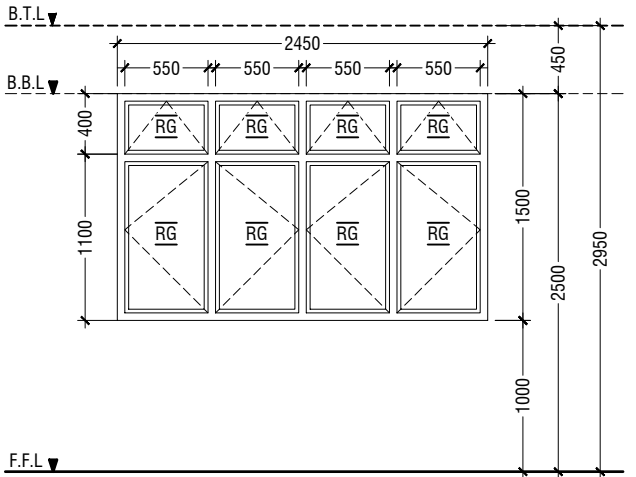
D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & CLEANER CLOSET
QUANTITY	08 NOS
OPEN AREA	1.29 SQM



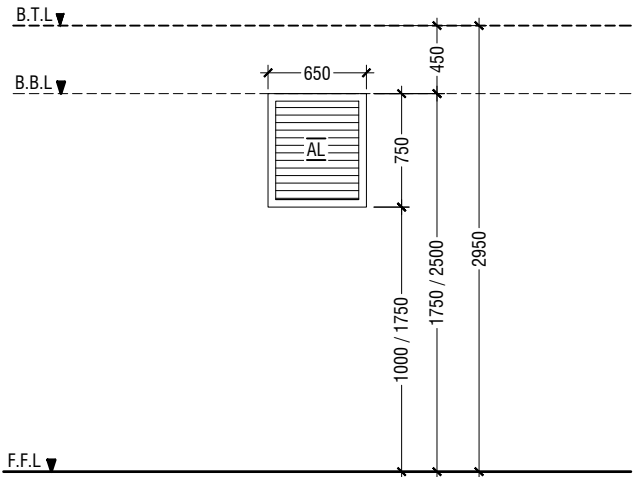
D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	21 NOS
OPEN AREA	1.17 SQM



W1	SLIDING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	24 NOS
OPEN AREA	0.83 sqm



W2	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CLASSROOMS
QUANTITY	24 NOS
OPEN AREA	2.97 sqm



W3	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	10 NOS
OPEN AREA	0.36 SQM

LEGEND:  
CG - CLEAR 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



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Drawn by : Razana Amir

Services : Aishath Ahmed

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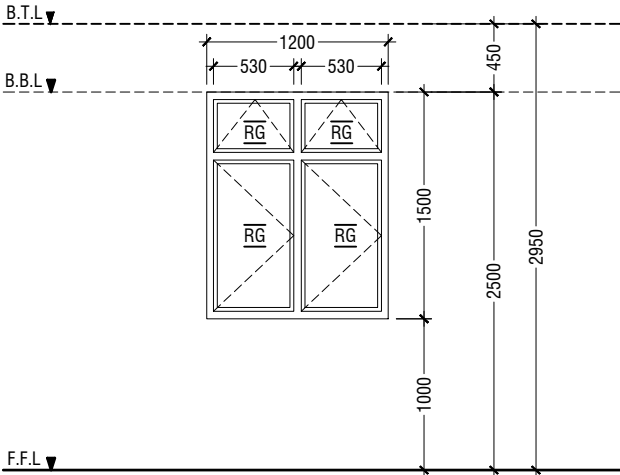
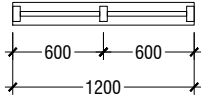
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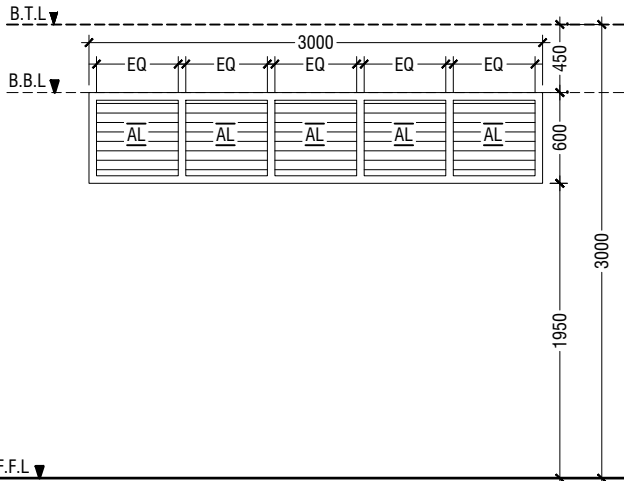
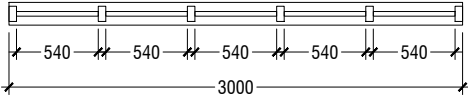
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Title: Door & Window  
Schedule - 1

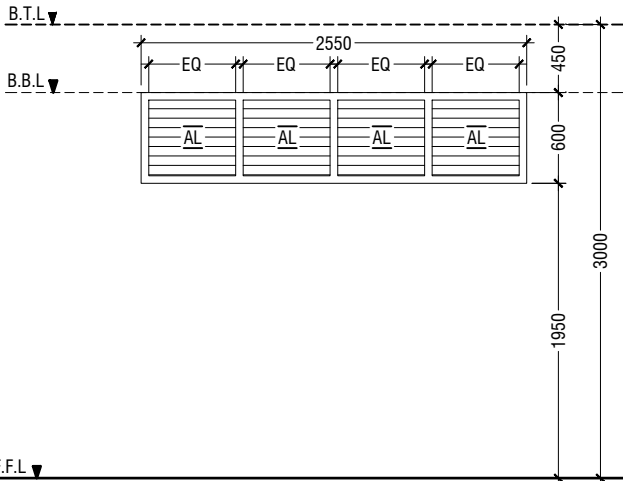
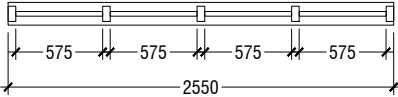
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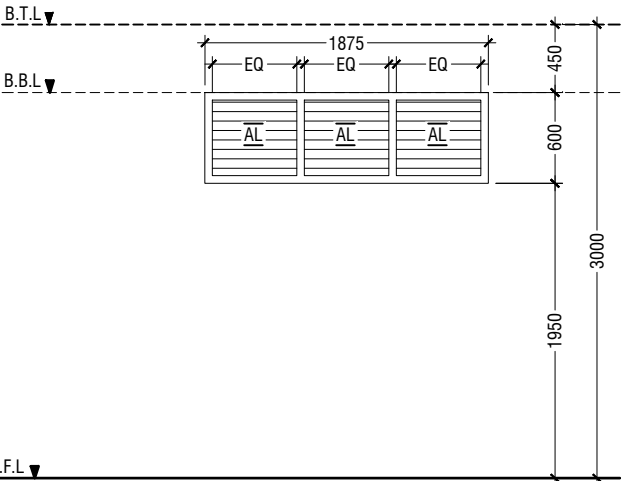
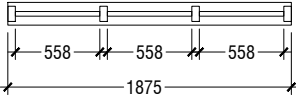
W4	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	HALF LANDING STORE ROOM
QUANTITY	3 NOS
OPEN AREA	1.43 sqm



V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	32 NOS
OPEN AREA	1.35 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	04 NOS
OPEN AREA	1.15 SQM

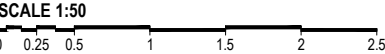


V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	08 NOS
OPEN AREA	0.84 SQM

LEGEND:  
CG - CLEAR GLASS  
RG - REFLECTED GLASS  
AL - ALUMINIUM  
PVC - POLYVINYL CHLORIDE

NOTE:-  
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- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)  
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DOOR & WINDOW SCHEDULE - 2



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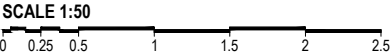
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Schedule - 2

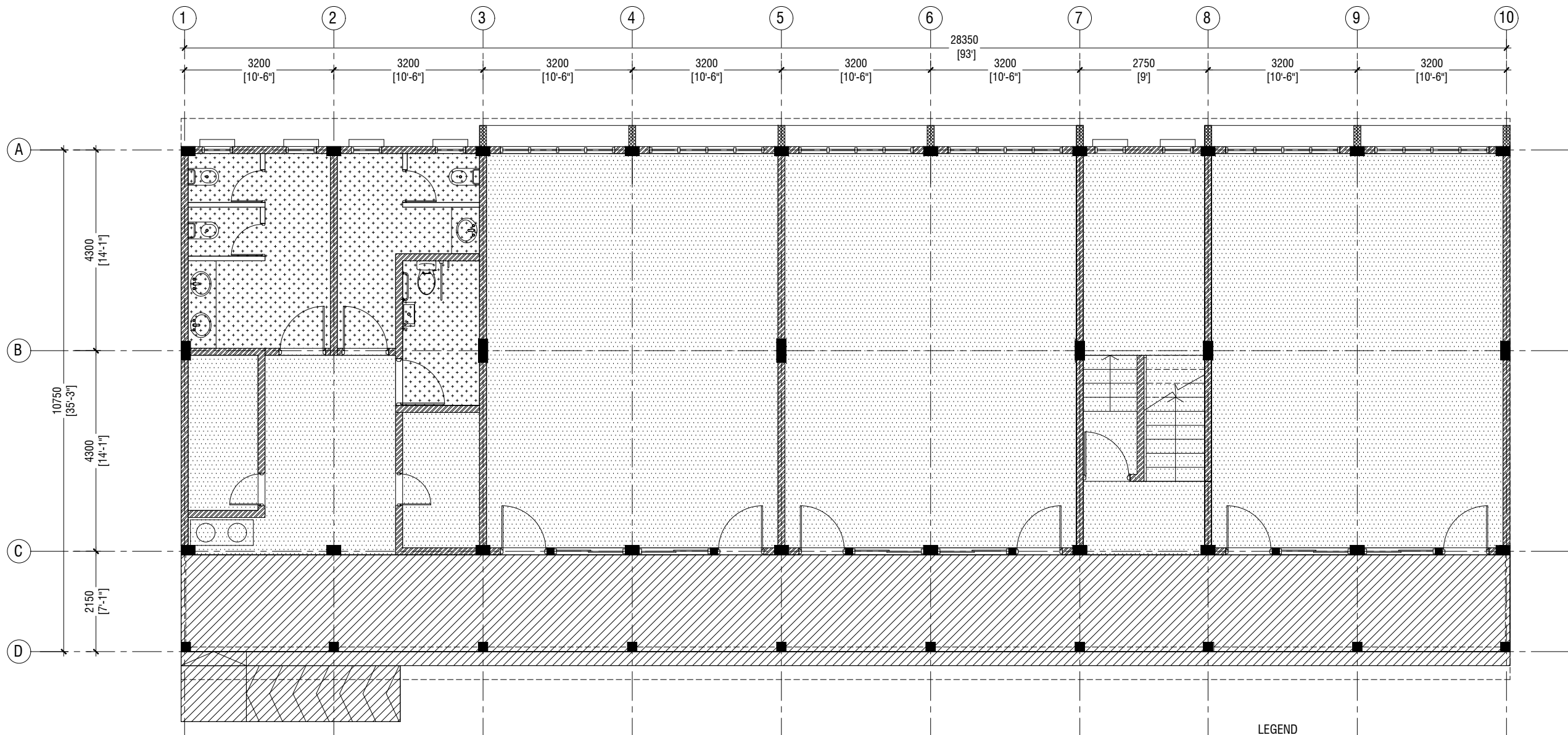
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SCHEDULE OF VENTILATION FOR IRUSHADHIYA SCHOOL

Room name/ Number	Room Areas (sqm) ( Specify centre to centre or clear)	Window (opening) number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
<b><u>Ground Floor</u></b>					
1 Classroom 1	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
2 Classroom 2	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
3 Classroom 3	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
4 Toilet (F)	12.73	D2 & 2W3	1.27	2.75	21.60%
5 Toilet (M)	9.09	D2 & 2W3	0.91	2.75	30.25%
6 Toilet for disabled	5.12	D2	0.51	2.03	39.65%
7 Main switchboard /store	11.25	Mechanical Ventilation			
<b><u>First to Third Floor</u></b>					
1 Classroom 4	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
2 Classroom 5	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
3 Classroom 6	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
4 Toilet (F)	16.24	D2 & 2W3	1.62	2.75	16.93%
5 Toilet (M)	16.24	D2 & 2W3	1.62	2.75	16.93%
6 Store at half landing level	7.22	W4	0.72	1.43	19.81%

VENTILATION SCHEDULE





**GROUND FLOOR  
FLOOR FINISHES PLAN**

SCALE 1:100



**LEGEND**

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	SELF LEVELLING CEMENT FLOOR SCREED WITH EPOXY FLOOR PAINT
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING



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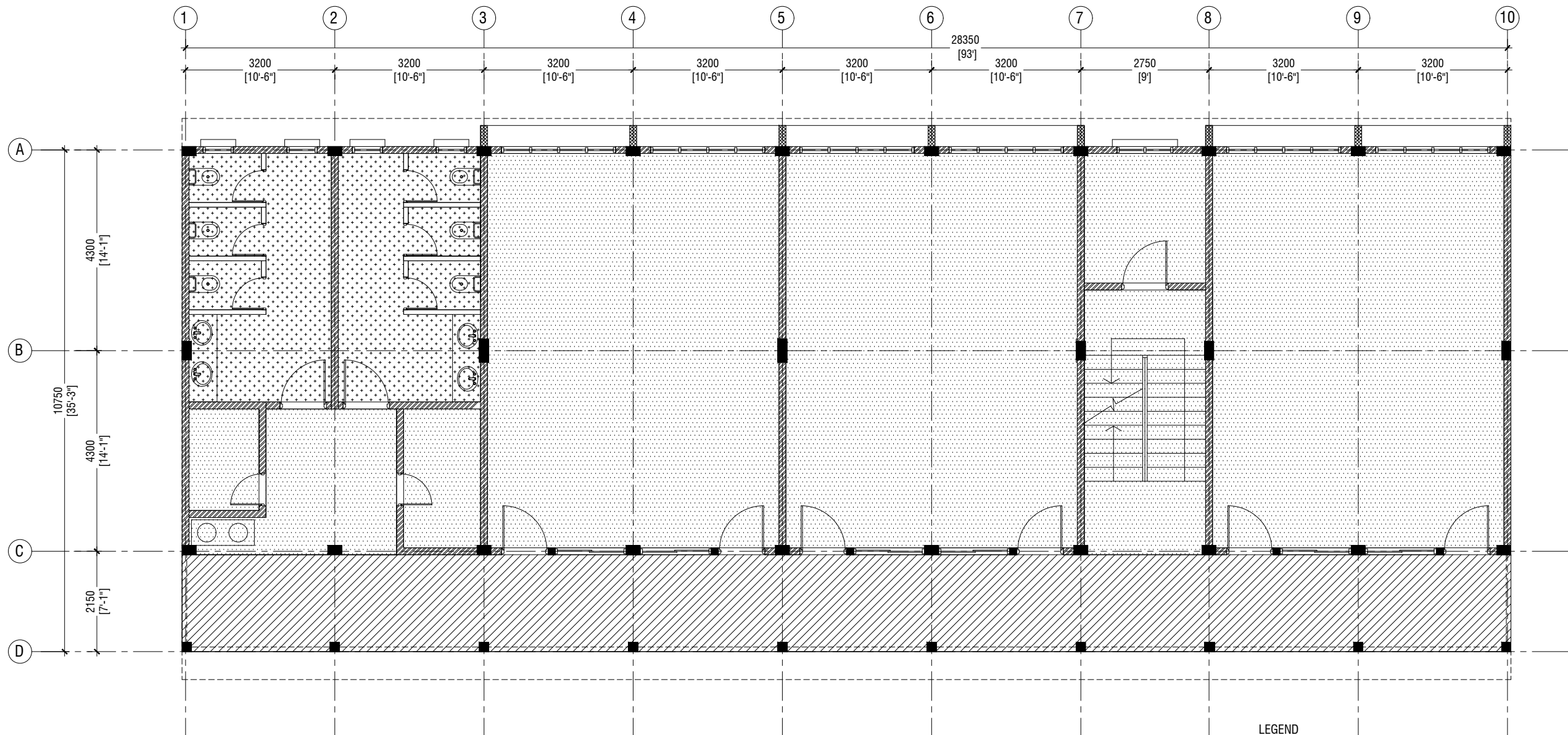
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Title: Ground Floor  
Floor Finishes Plan

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**FIRST - THIRD FLOOR  
FLOOR FINISHES PLAN**

SCALE 1:100



**LEGEND**

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	SELF LEVELLING CEMENT FLOOR SCREED WITH EPOXY FLOOR PAINT
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING



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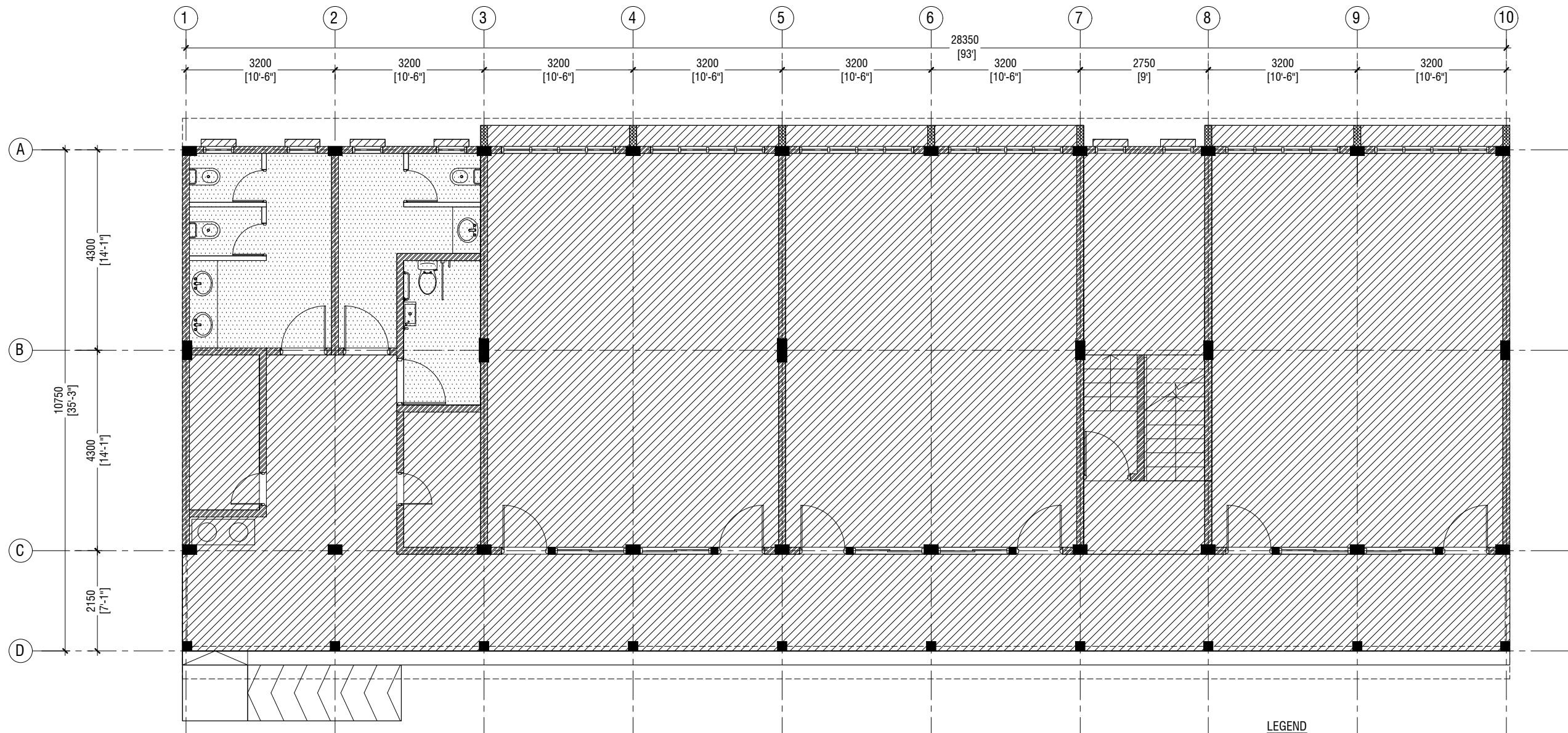
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Title: First - Third Floor  
Floor Finishes Plan

Page: A-12/21



**GROUND FLOOR  
REFLECTED CEILING PLAN**

SCALE 1:100



**LEGEND**

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH
	CEMENT BOARD CELING



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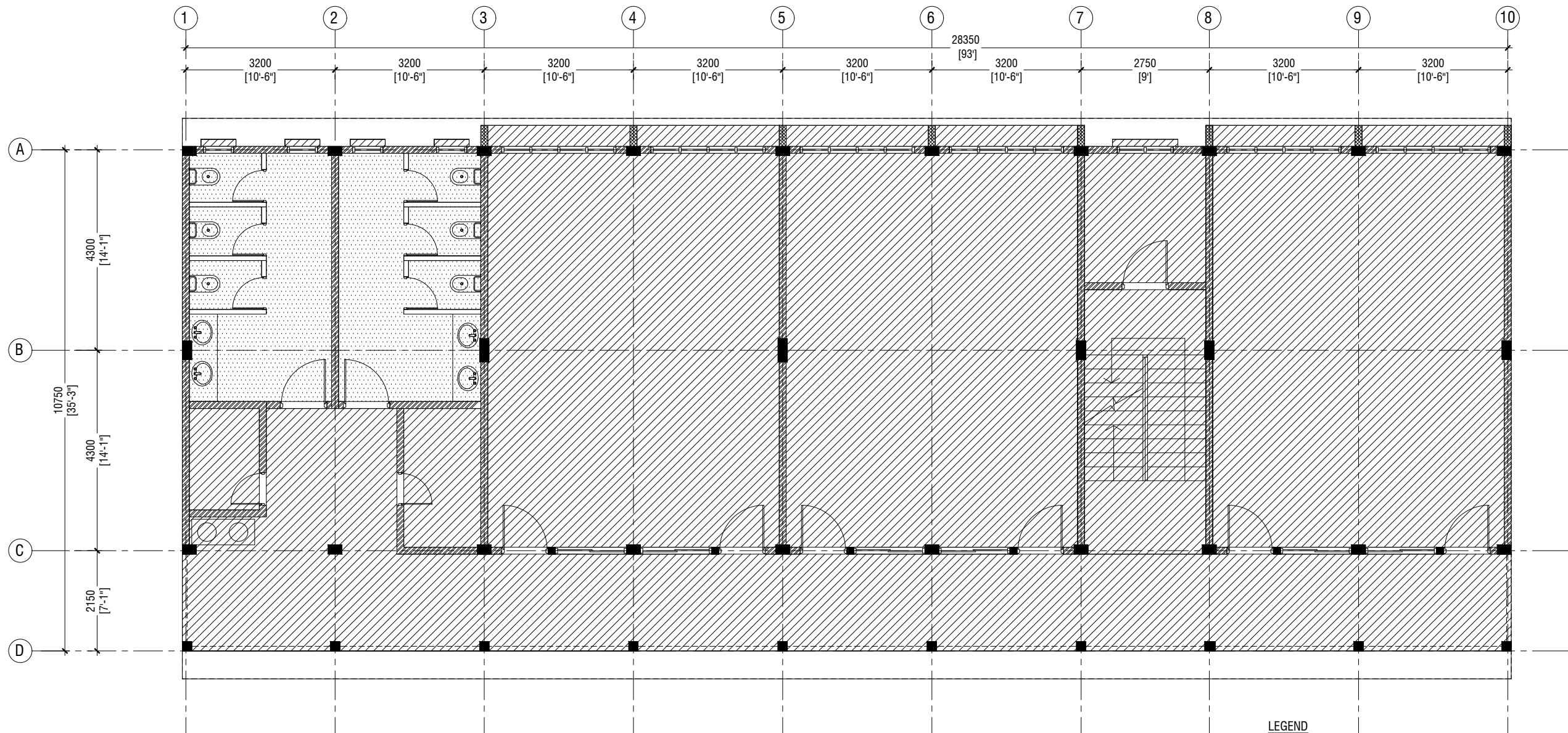
S. Maradhoo, Maradhoo Feydhoo  
Irushadhiyya School - 12 Classroom (04 Storey)  
Client: Ministry of Education

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

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Title: Ground Floor  
Reflected Ceiling Plan

Page: A-13/21



**FIRST - SECOND FLOOR  
REFLECTED CEILING PLAN**

SCALE 1:100



**LEGEND**

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH
	CEMENT BOARD CELING



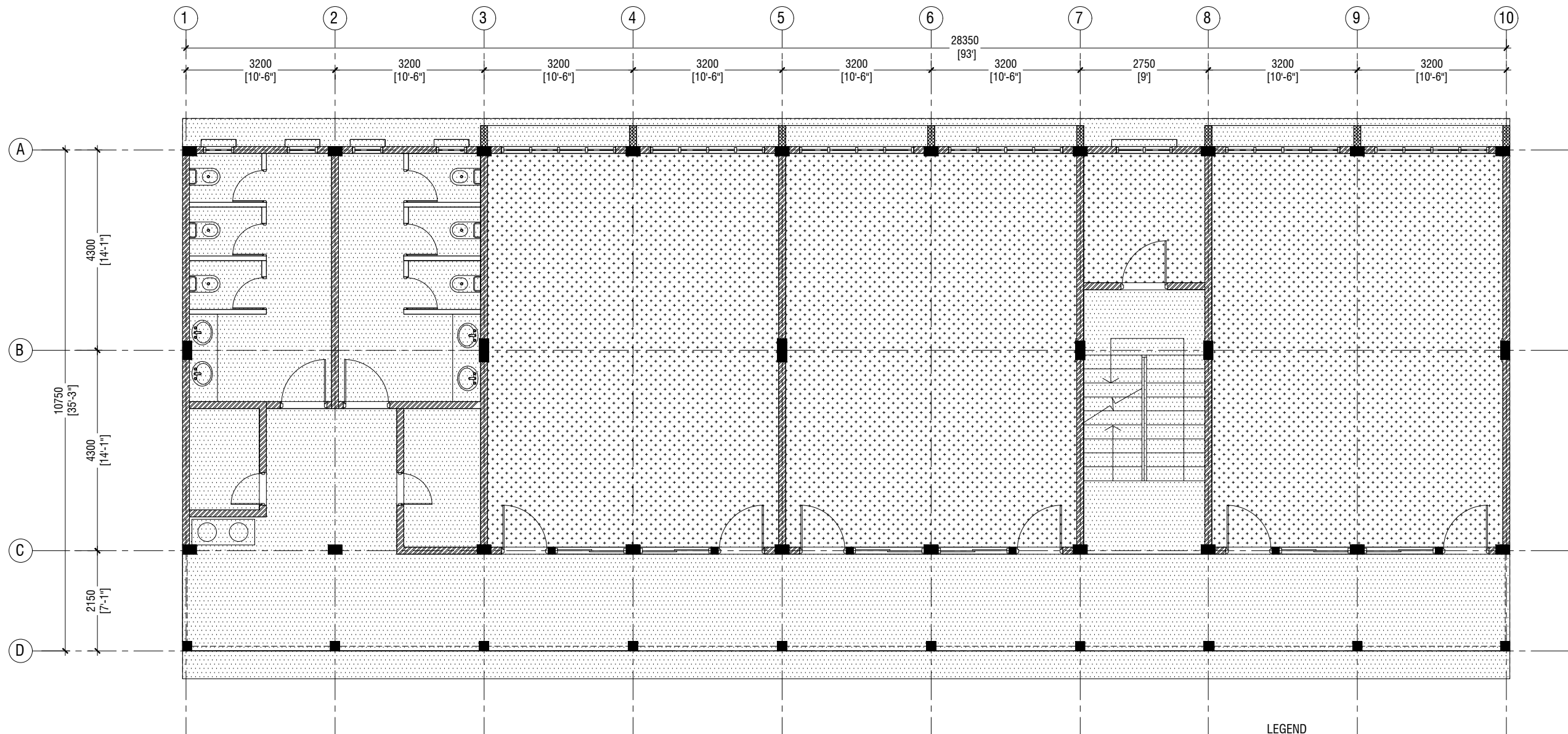
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Client: Ministry of Education

Project Number: RI/2017/012  
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Engineer : Ahmed Zuhail Zaeem  
Drawn by : Razana Amir  
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Title: First - Second Floor  
Reflected Ceiling Plan  
Page: A-14/21



**THIRD FLOOR  
REFLECTED CEILING PLAN**

SCALE 1:100



**LEGEND**

CODE	DESCRIPTION
	CEMENT BOARD CELING
	FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT



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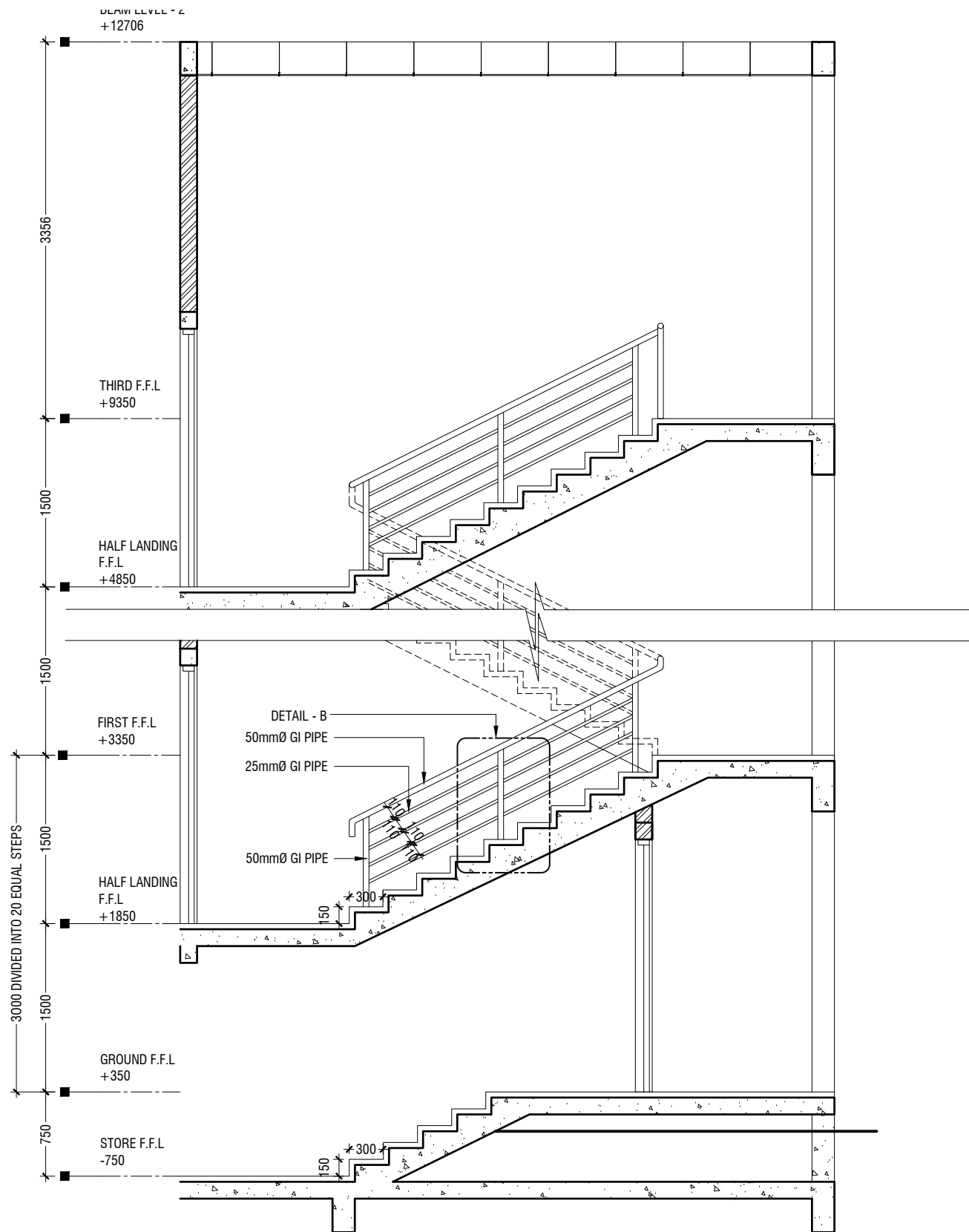
S. Maradhoo, Maradhoo Feydhoo  
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Client: Ministry of Education

Project Number: RI/2017/012  
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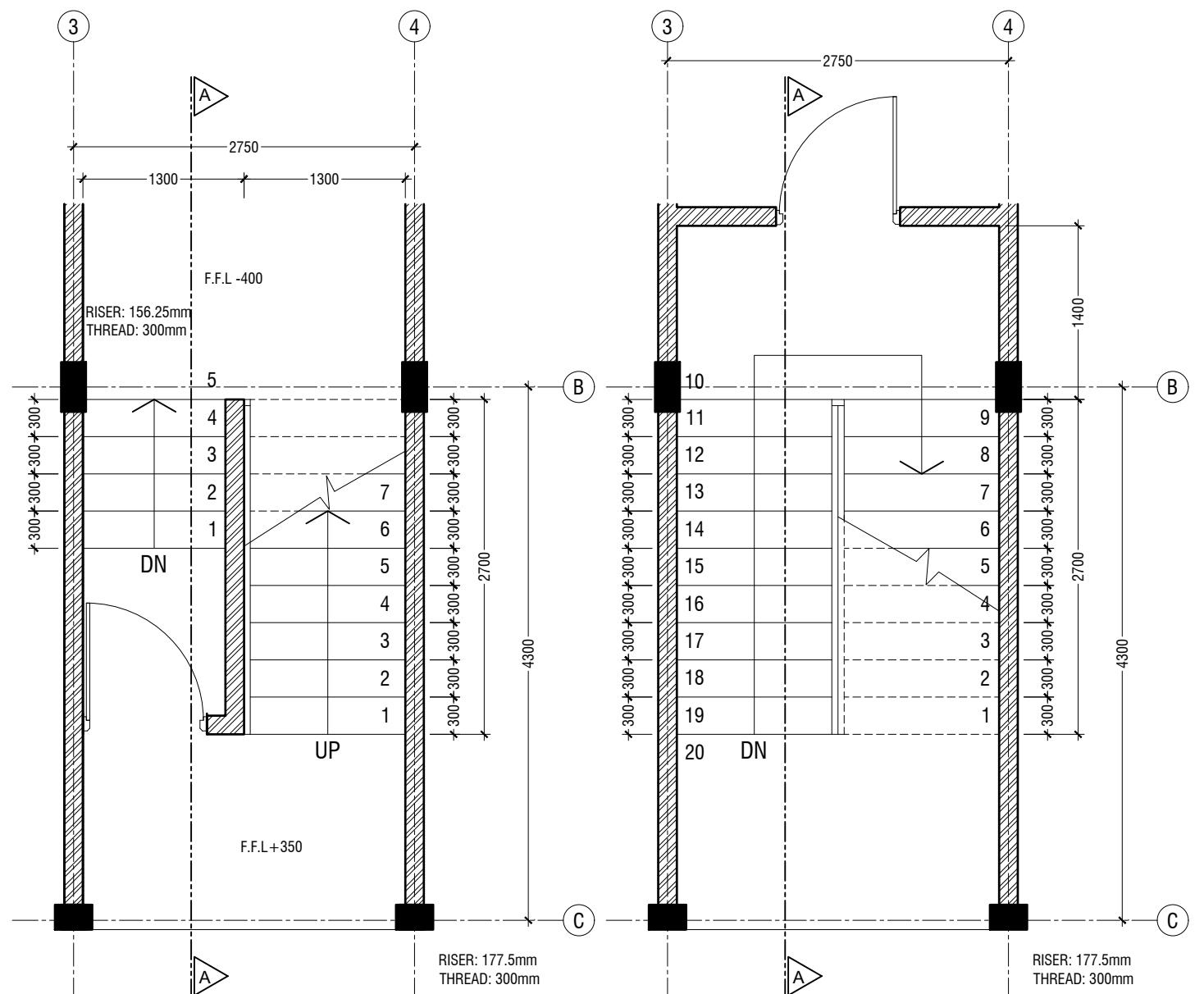
Title: Third Floor  
Reflected Ceiling Plan

Page: A-15/21



## SECTION A - A

SCALE 1:50

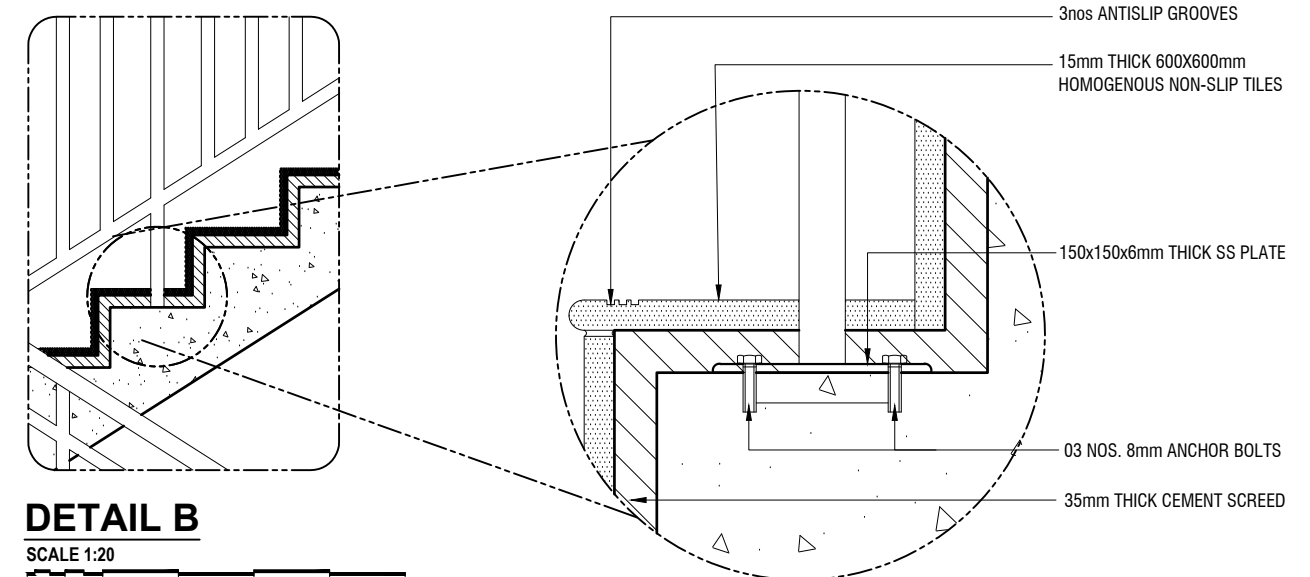


## GROUND FLOOR STAIRCASE PLAN

SCALE 1:50

## TYPICAL STAIRCASE PLAN

SCALE 1:50



## DETAIL B

SCALE 1:20

## STAIRCASE DETAILS

SCALE 1:20



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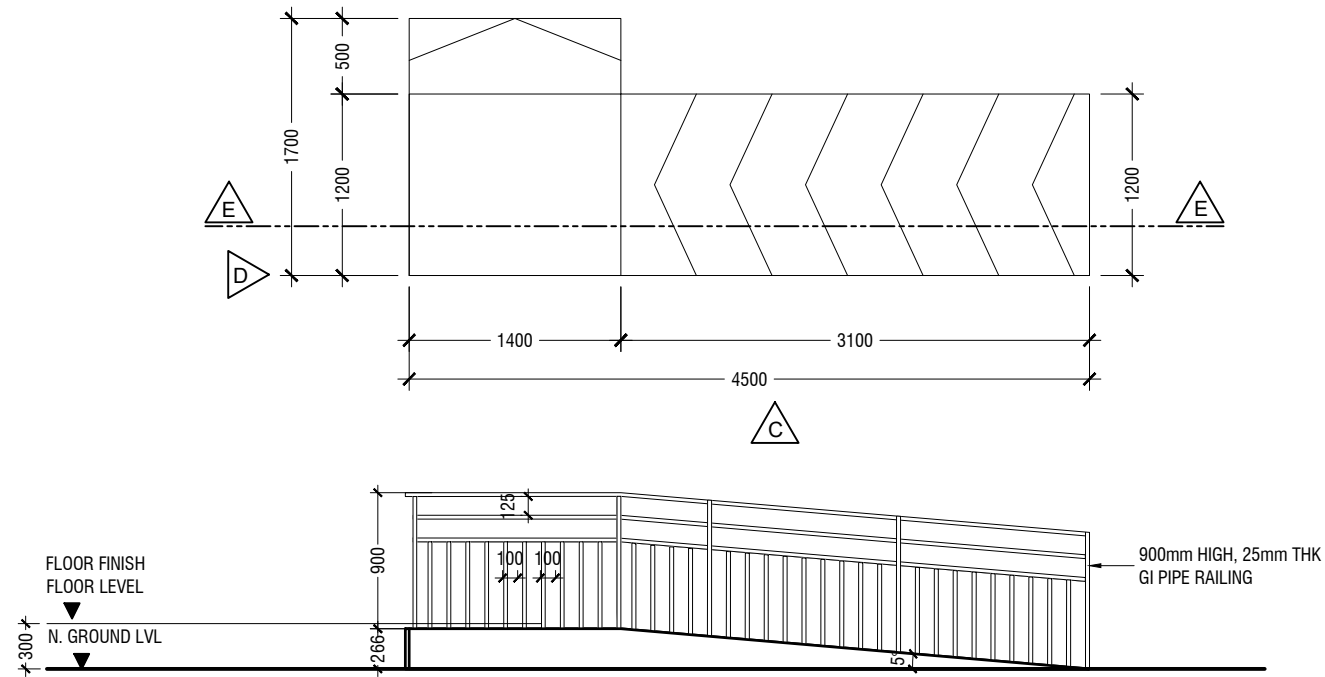
S. Maradhoo, Maradhoo Feydhoo  
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Engineer: Ahmed Zuhail Zaeem  
Drawn by: Razana Amir  
Services: Aishath Ahmed

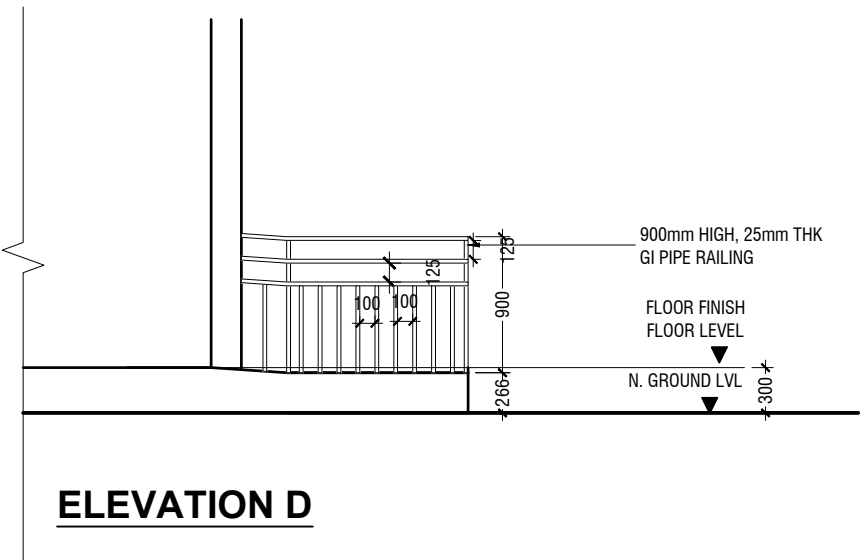
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Title: Staircase Details

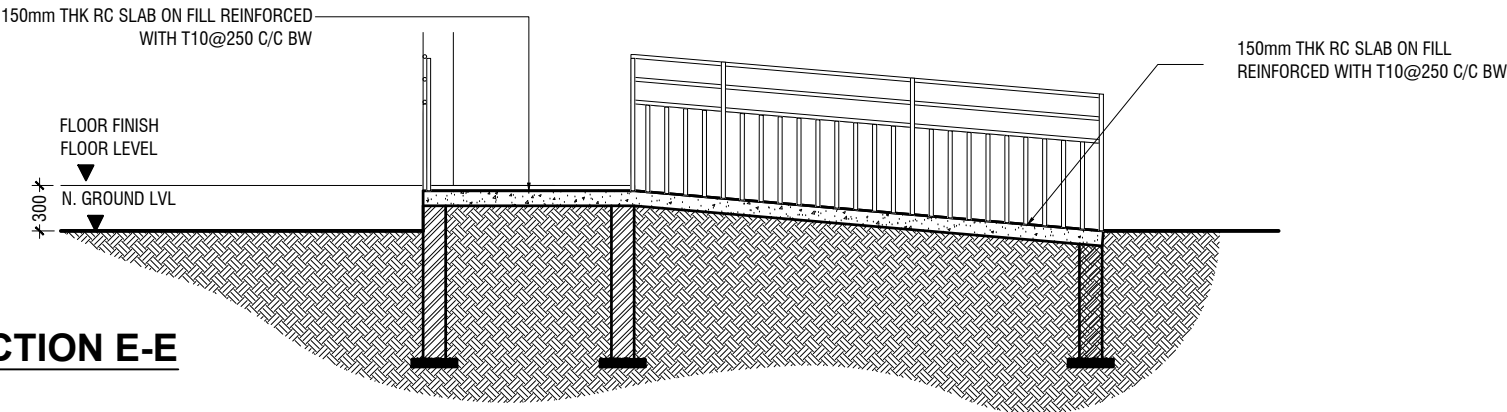
Page: A-16/21



**ELEVATION C**

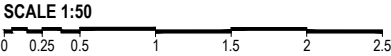


**ELEVATION D**



**SECTION E-E**

**MAIN ENTRANCE RAMP DETAILS**



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**Client: Ministry of Education**

Project Number: RI/2017/012  
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Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Razana Amir  
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Title: Main Entrance Ramp  
Details  
Page: A-17/21

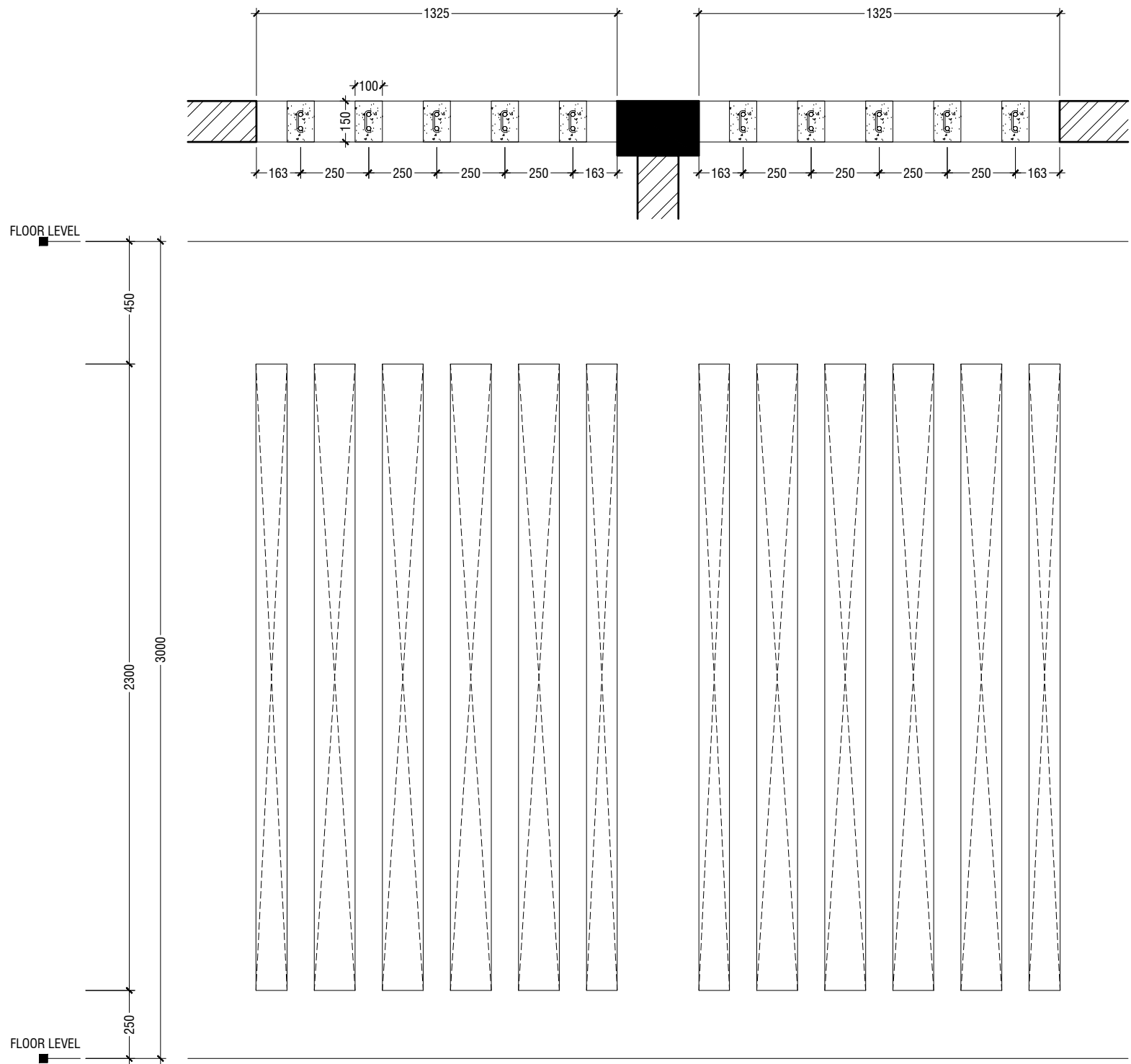
## TYPICAL TOILET PLAN

## SECTION A1-A1

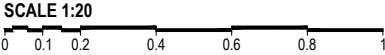
## TOILET FOR PERSONS WITH DISABILITIES PLAN

## COUNTER TOP DETAILS

## SECTION B2-B2



RC FIN DETAILS



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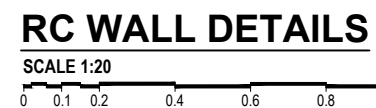
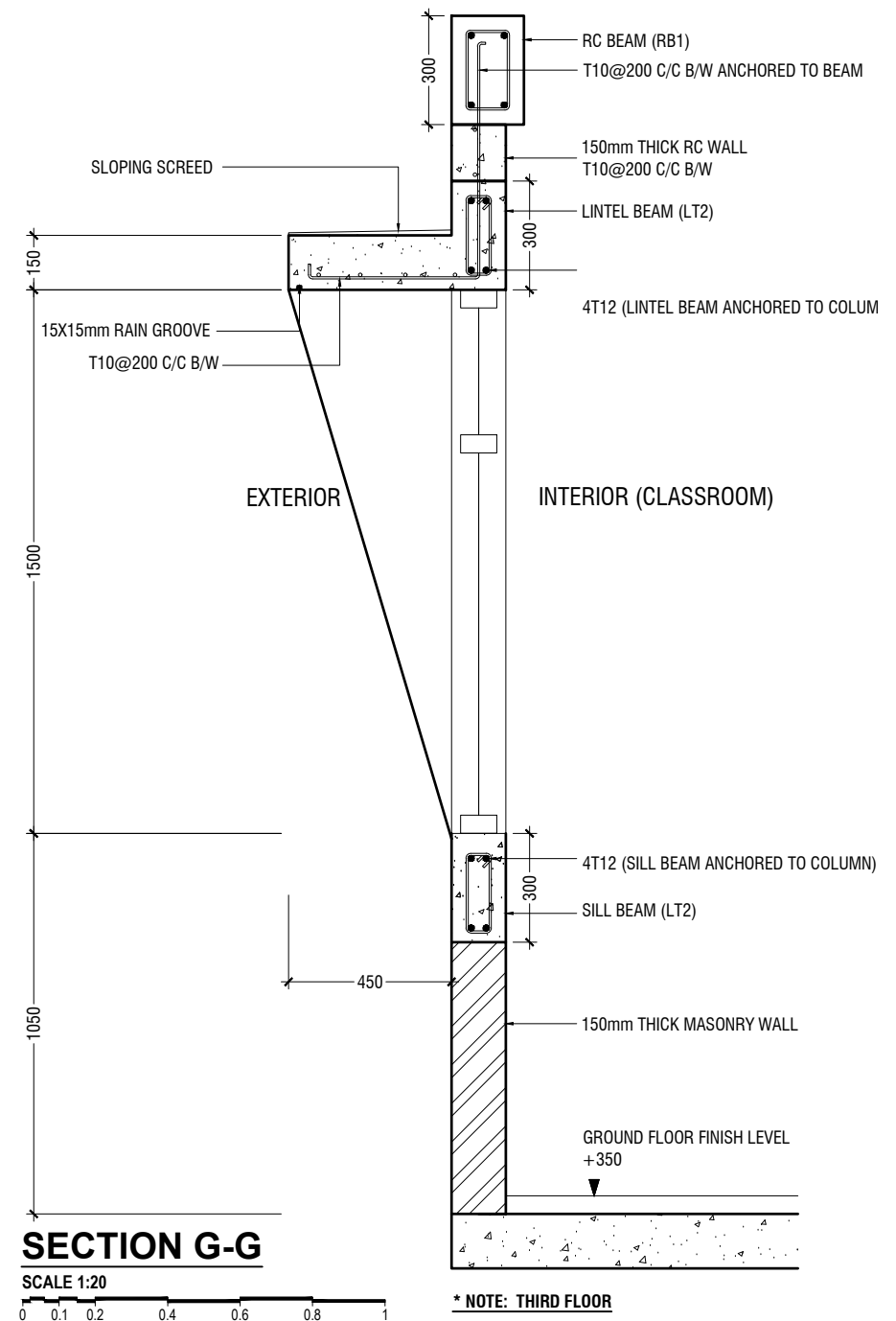
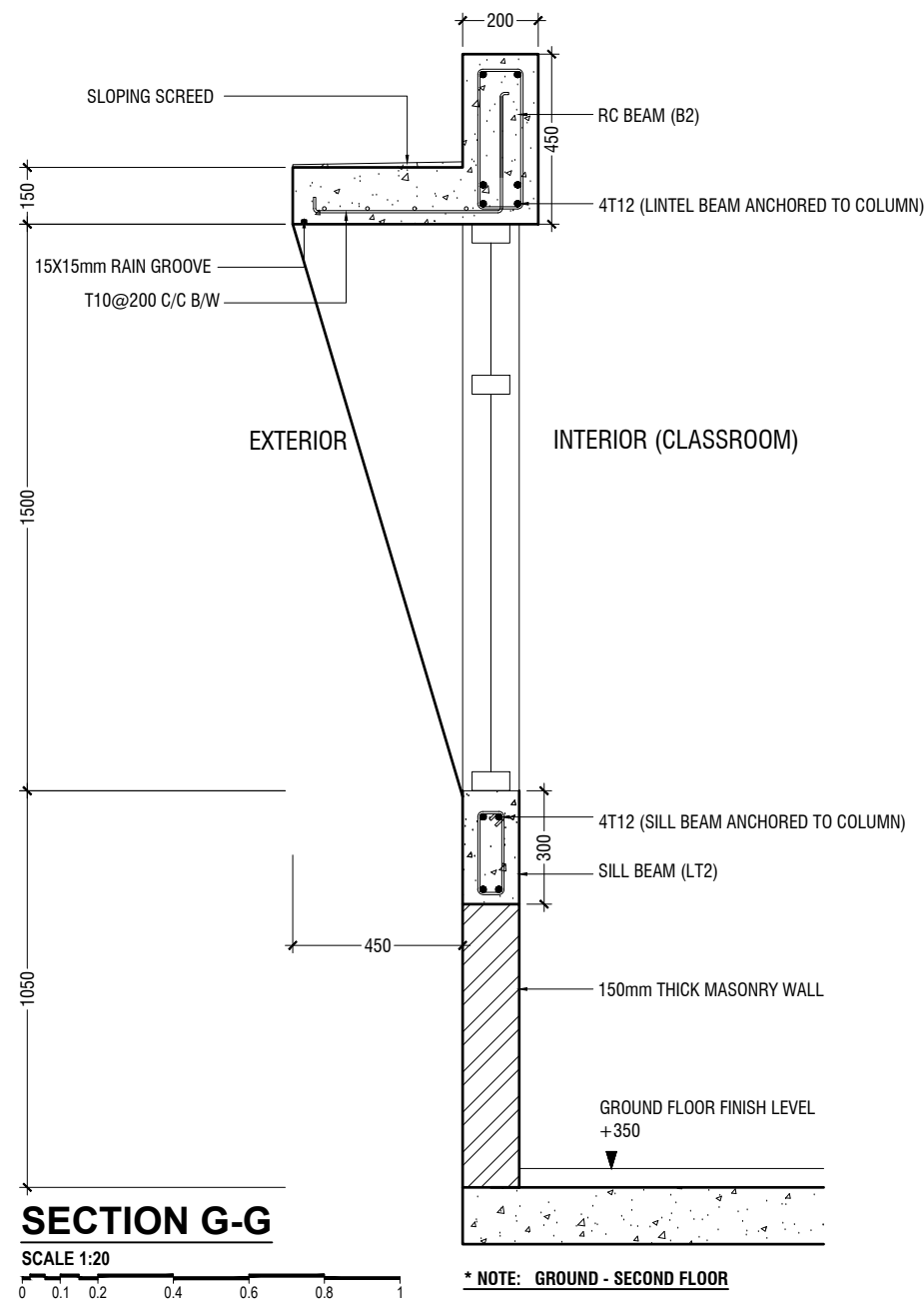
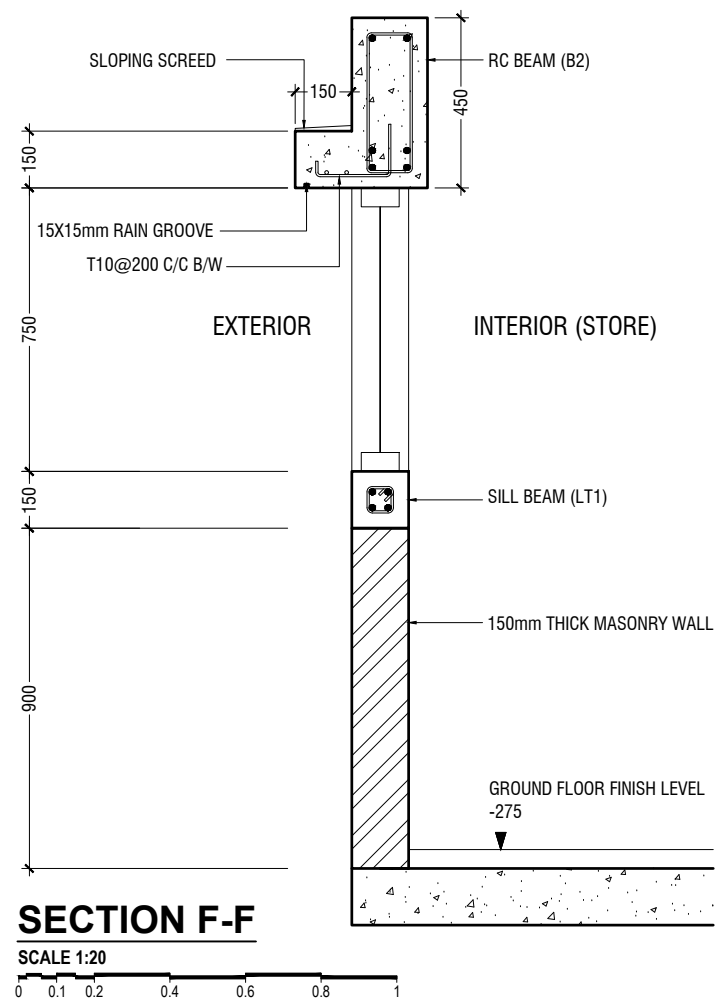
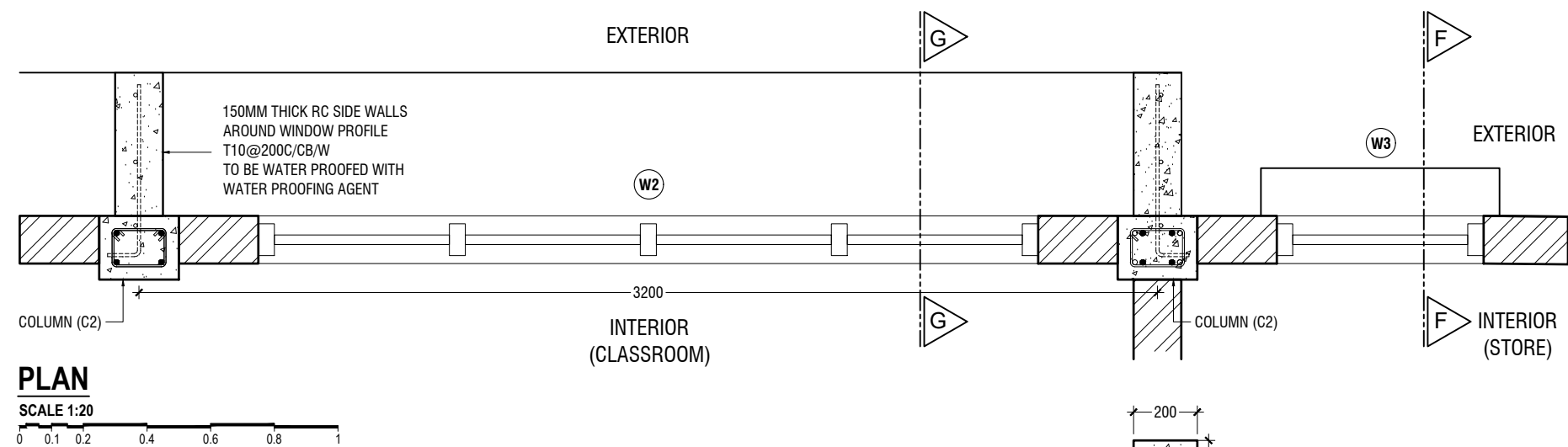
Project Number: RI/2017/012  
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Architect : Razana Amir  
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Title: RC Fin Details

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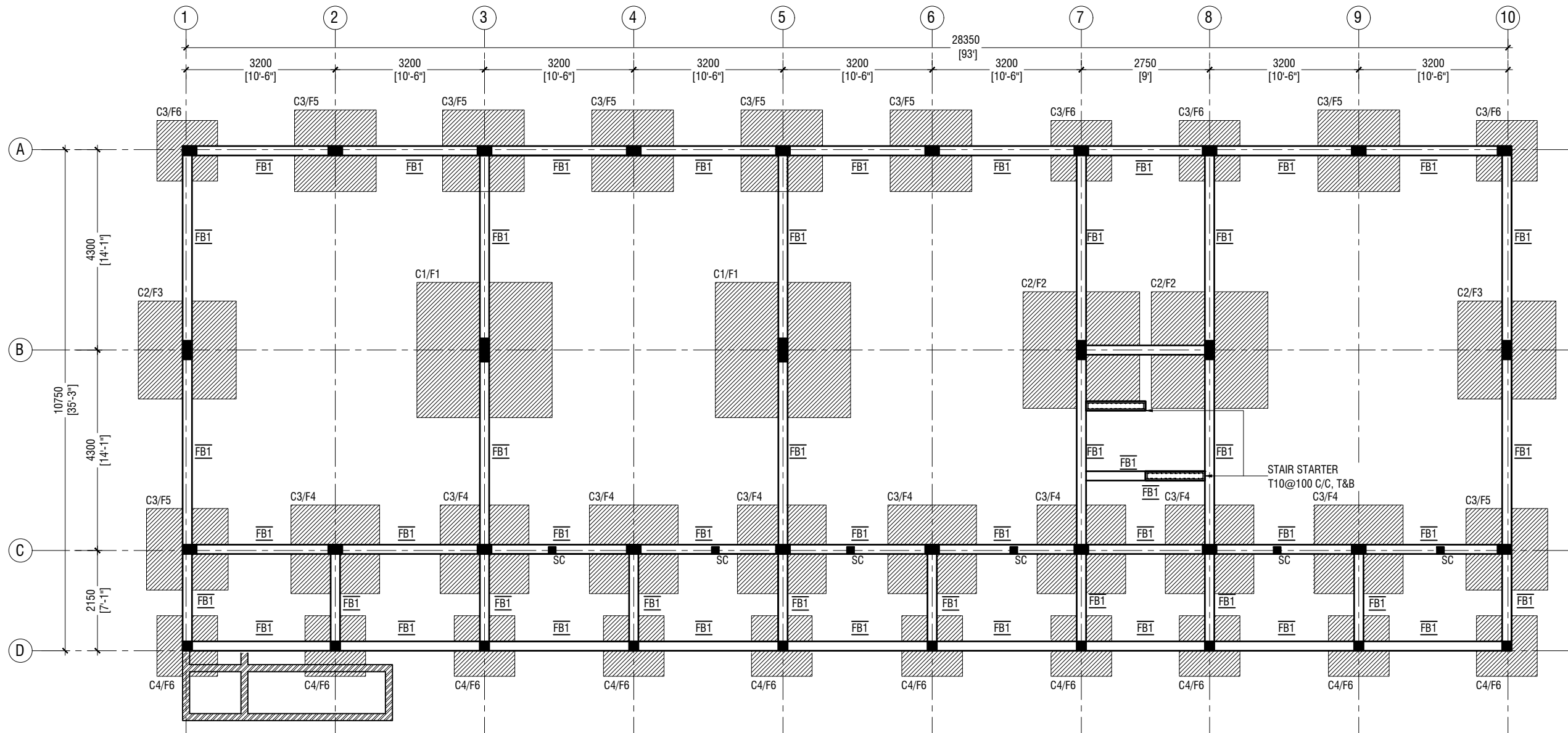
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Client: Ministry of Education

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Engineer : Ahmed Zuhail Zaeem  
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Title: RC Wall Details

Page: A-21/21



## FOUNDATION PLAN

SCALE 1:100



### NOTE:

#### COLUMN SIZES

C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

#### FOUNDATION PAD SIZES

	DIMENSION	REINFORCEMENT
F1	2900 x 2900 x 550	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2500 x 2500 x 500	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F3	2100 x 2100 x 450	T12@125 C/C B/W (B)
F4	1900 x 1900 x 450	T12@150 C/C B/W (B)
F5	1750 x 1750 x 450	T12@150 C/C B/W (B)
F6	1300 x 1300 x 450	T12@150 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 450 mm
COVER	: 50mm

GROUND SLAB : 150mm 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



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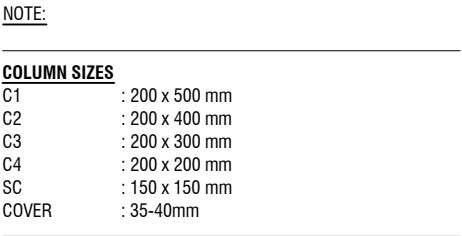
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Client: Ministry of Education

Project Number: RI/2017/012  
Date: June 2019  
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
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Title: Foundation Plan

Page: S-01/11



**SCALE 1:100**



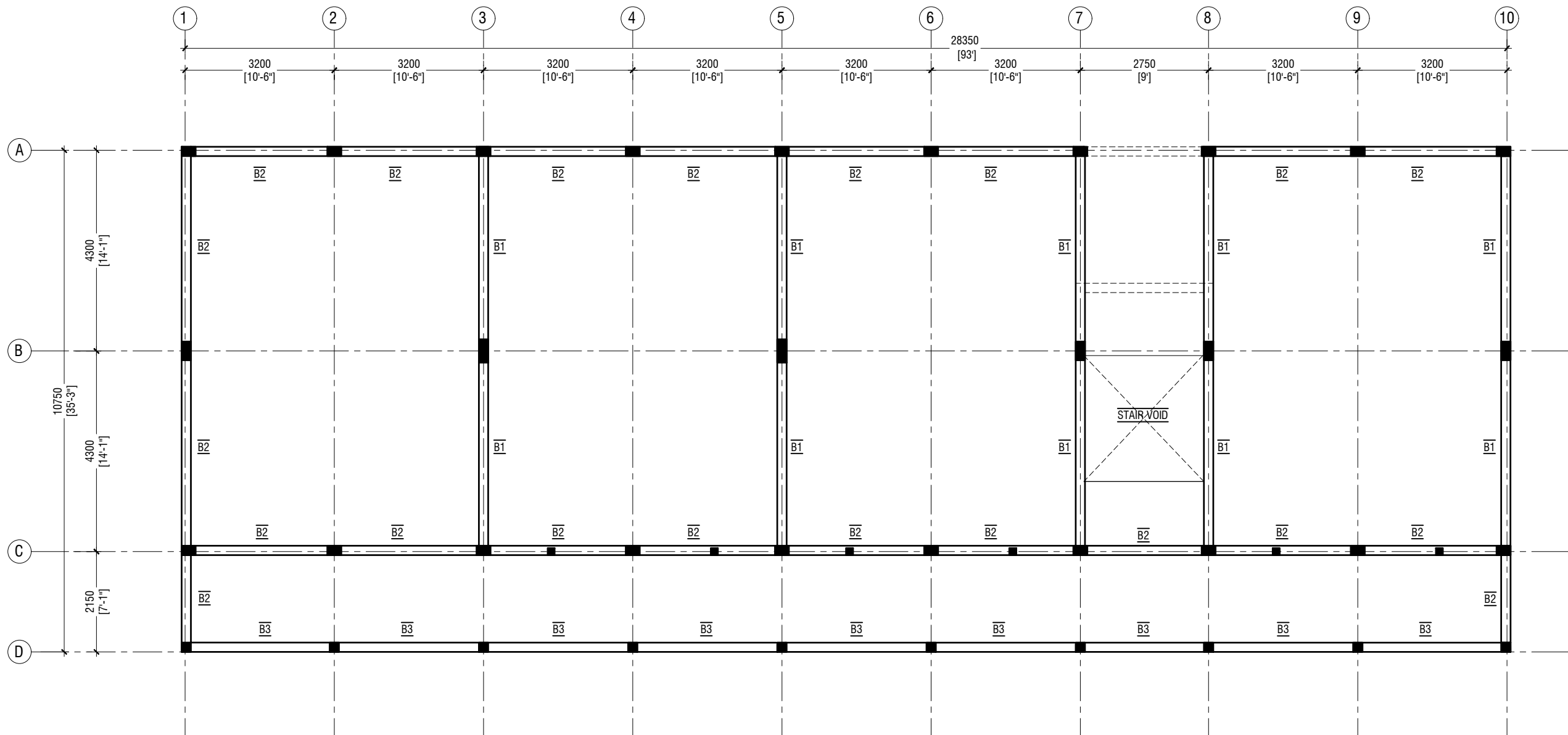
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Page: S-02/11



FIRST - THIRD FLOOR BEAM PLAN

SCALE 1:100

NOTE:	
COLUMN SIZES	
C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm
BEAM SIZES	
B1	: 200x550 mm
B2	: 200x450 mm
B3	: 200x450 mm
COVER	: 35mm
MIX RATIO = 1:2:3 ( CEMENT : SAND : AGGREGATE )	



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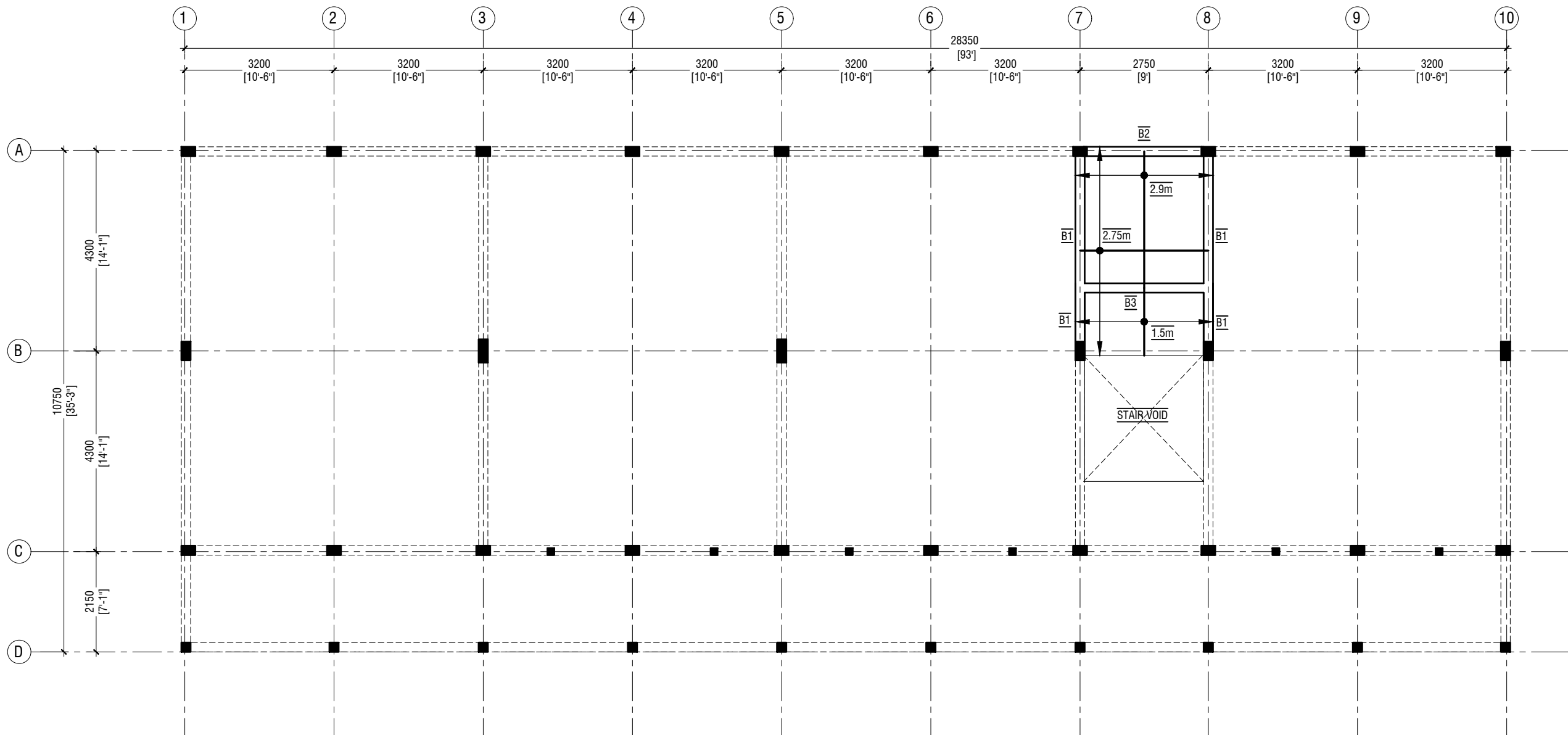
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Client: Ministry of Education

Project Number: RI/2017/012  
Date: June 2019  
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Razana Amir  
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Title: First - Third Floor  
Beam Plan  
Page: S-03/11



STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN (+1850, +4850 & 7850)

SCALE 1:100  
0 0.5 1 2 3 4 5

NOTE:

COLUMN SIZES

C1 : 200 x 500 mm  
C2 : 200 x 400 mm  
C3 : 200 x 300 mm  
C4 : 200 x 200 mm  
SC : 150 x 150 mm  
COVER : 35-40mm

BEAM SIZES

B1 : 200x550 mm  
B2 : 200x450 mm  
B3 : 200x450 mm  
COVER : 35mm

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

SLAB THICKNESS: 150mm  
BOTTOM REINFORCEMENT: T10@150C/C B/W (NOT SHOWN)  
TOP REINFORCEMENT: T10@150C/C (AS SHOWN, UNLESS STATED)  
TOP DISTRIBUTION STEEL: T10@150C/C (UNLESS STATED)



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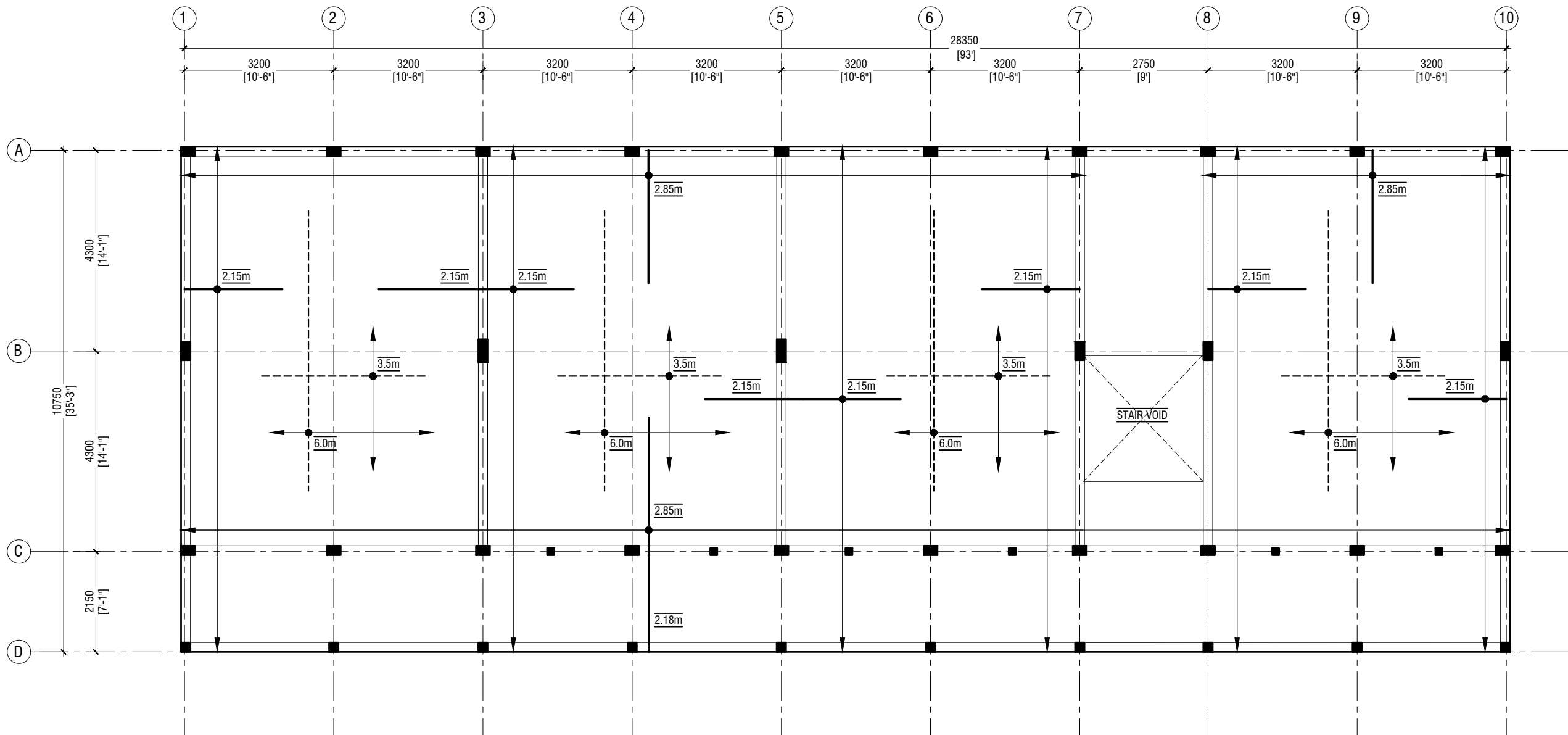
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Client: Ministry of Education

Project Number: RI/2017/012  
Date: June 2019  
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Razana Amir  
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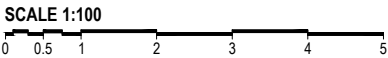
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Title: Store / Half Landing  
Beam & Slab Rein. Plan

Page: S-04/11



FIRST - THIRD FLOOR SLAB REINFORCEMENT PLAN



NOTE

SLAB THICKNESS:	175mm
BOTTOM REINFORCEMENT:	T12@150C/C B/W (NOT SHOWN)
BOTTOM ADDITIONAL REINFORCEMENT:	T12@150C/C B/W (AS SHOWN)
TOP REINFORCEMENT:	T12@150C/C (AS SHOWN, UNLESS STATED)
TOP DISTRIBUTION STEEL:	T12@150C/C (UNLESS STATED)



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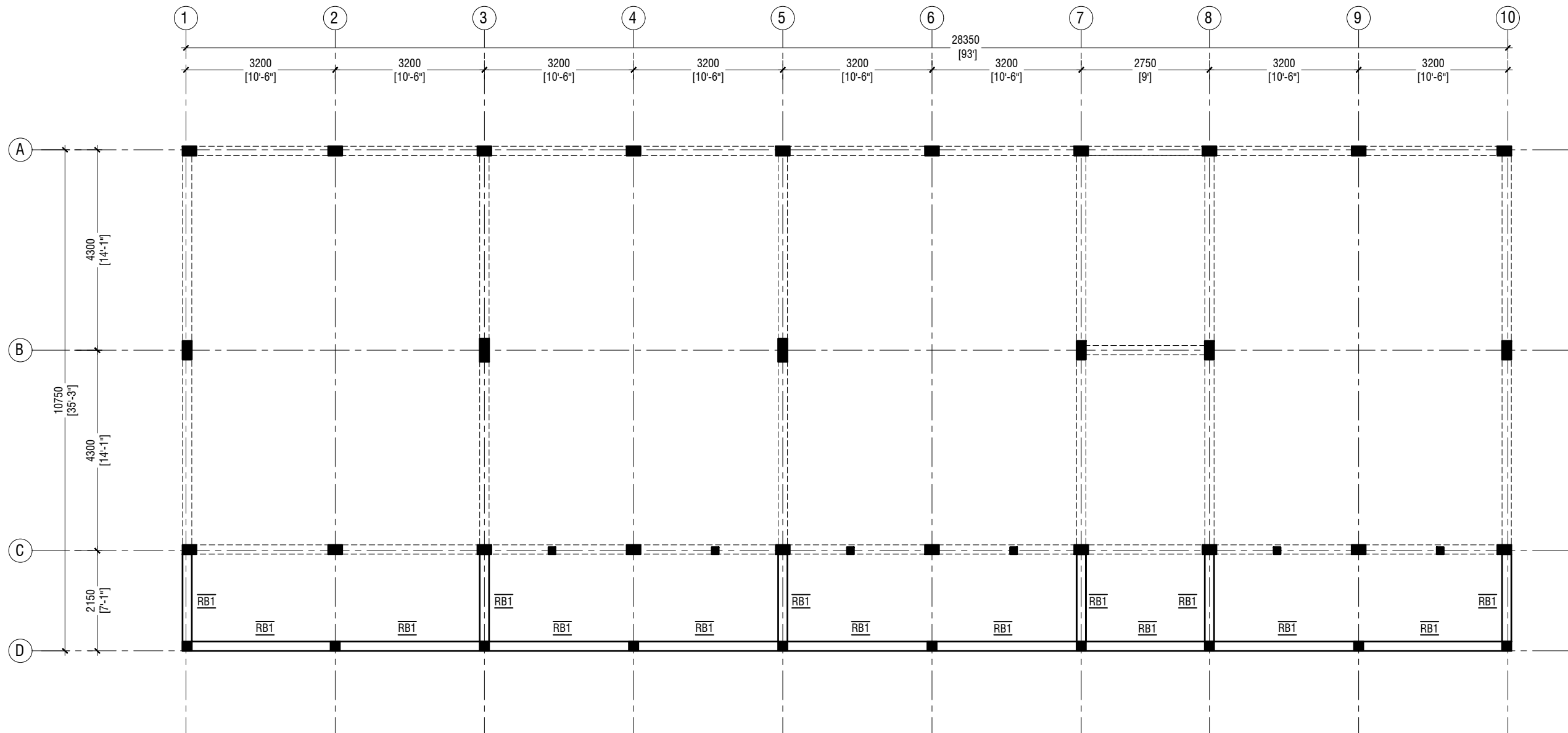
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Title: First - Third Floor  
Slab Rein. Plan  
Page: S-05/11



ROOF BEAM PLAN - 1 @12.15 FROM F.F.L

SCALE 1:100



NOTE:

COLUMN SIZES

C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

BEAM SIZES

RB1	: 200x300 mm
COVER	: 35mm

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



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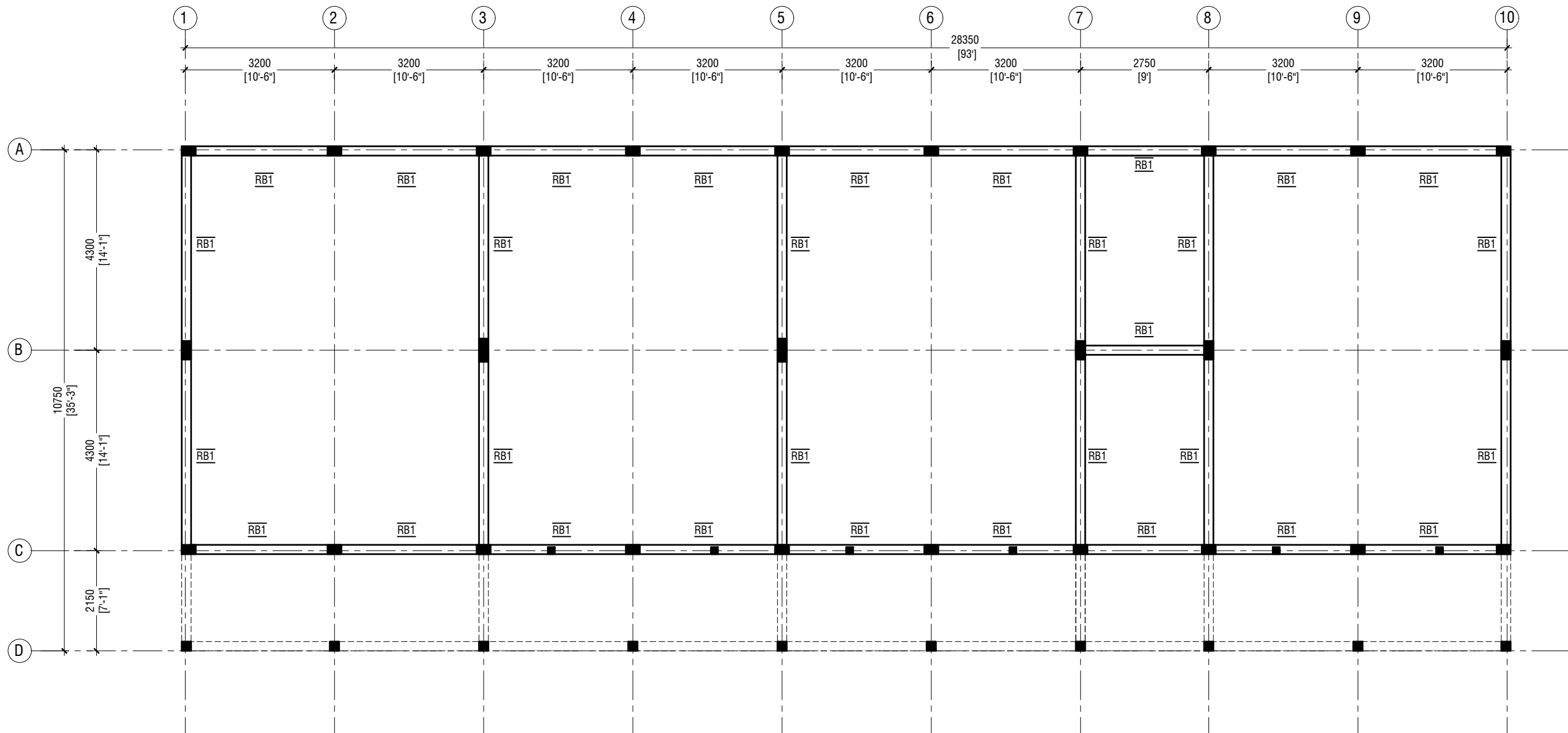
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Client: Ministry of Education

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

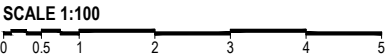
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Title: Roof Beam Plan - 1  
(+12150)

Page: S-06/11



ROOF BEAM PLAN - 2 @12.706 FROM F.F.L

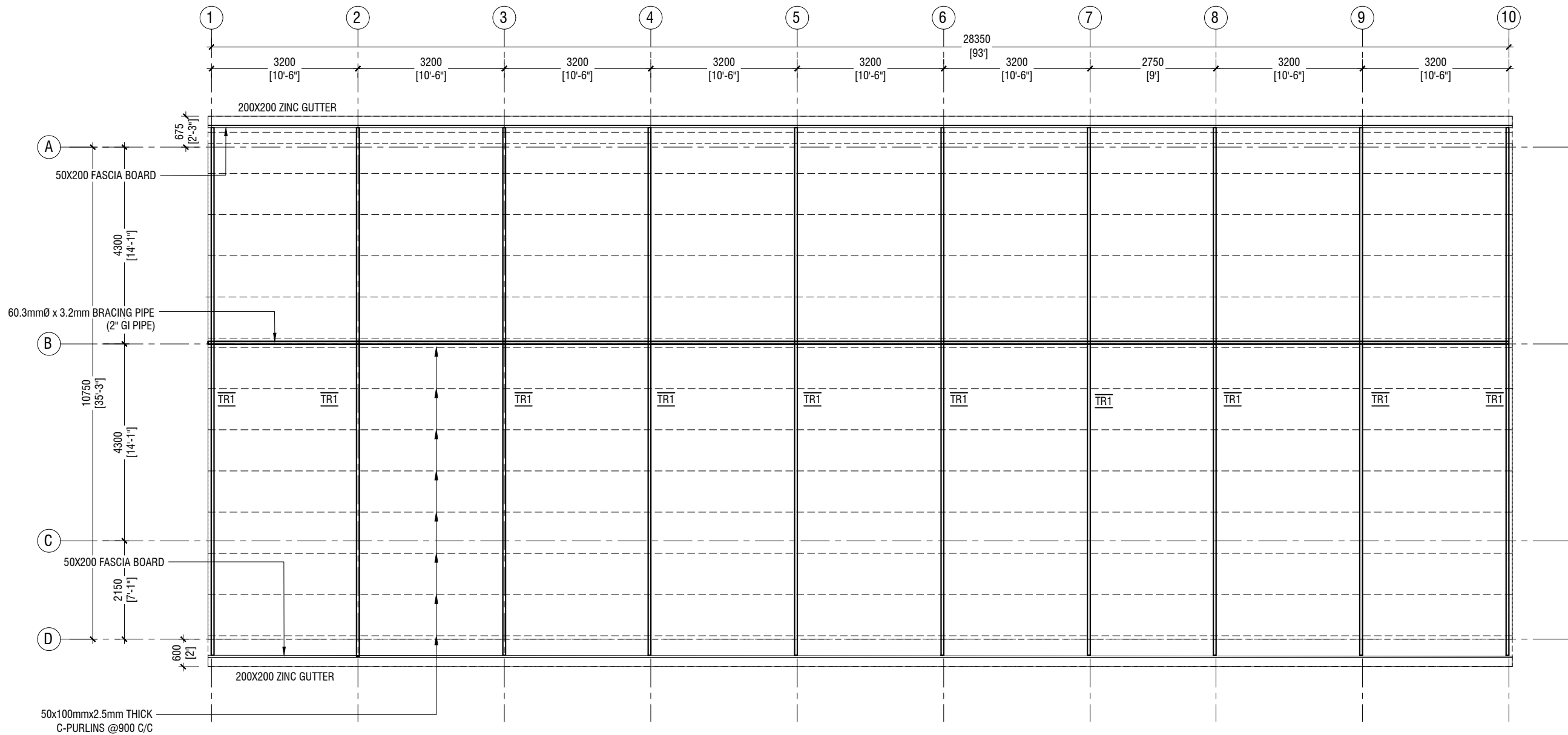


NOTE:

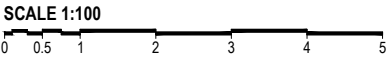
COLUMN SIZES	
C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

BEAM SIZES	
RB1	: 200x300 mm
COVER	: 35mm

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



ROOF TRUSS & FRAMING PLAN



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Project Number: RI/2017/012  
Date: June 2019  
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Engineer : Ahmed Zuhail Zaeem  
Drawn by : Razana Amir  
Services : Aishath Ahmed

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Title: Roof Truss & Framing Plan

Page: S-08/11



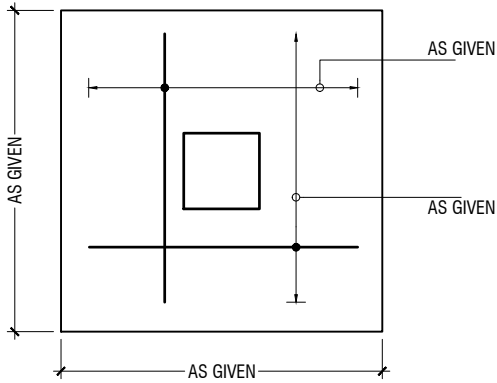
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F1	2900 x 2900 x 550	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2500 x 2500 x 500	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F3	2100 x 2100 x 450	T12@125 C/C B/W (B)
F4	1900 x 1900 x 450	T12@150 C/C B/W (B)
F5	1750 x 1750 x 450	T12@150 C/C B/W (B)
F6	1300 x 1300 x 450	T12@150 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

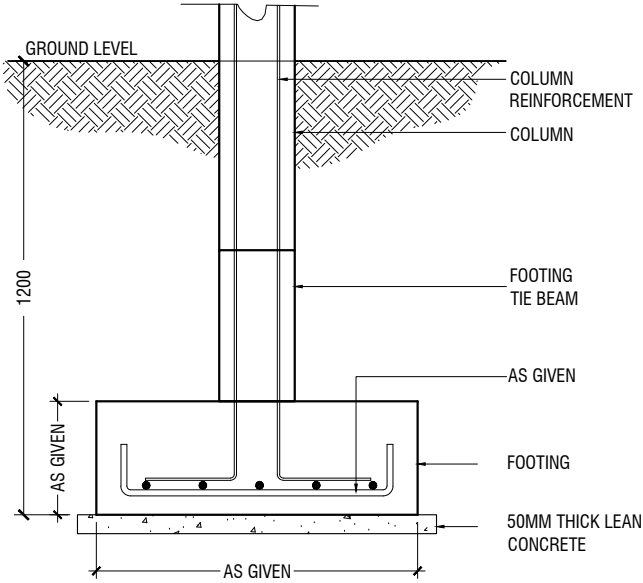
NOTE:-  
COVER TO FOUNDATION = 50mm  
COVER TO COLUMNS = 40mm  
COVER TO BEAMS = 35mm  
LAPS = Ø OF BAR x 45  
BEAMS @END SUPPORT = Ø OF BAR x 12

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

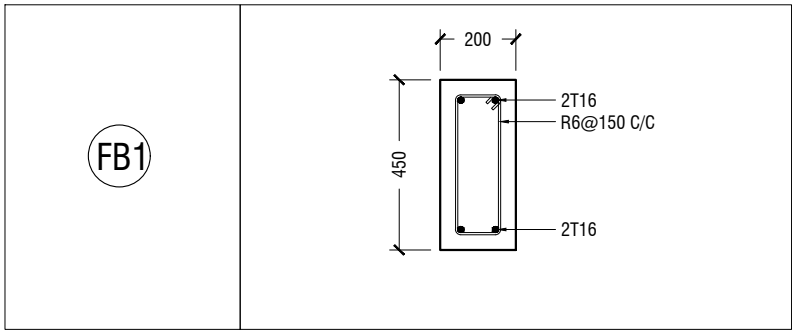
FOUNDATION PADS



PLAN



SECTION

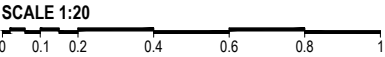


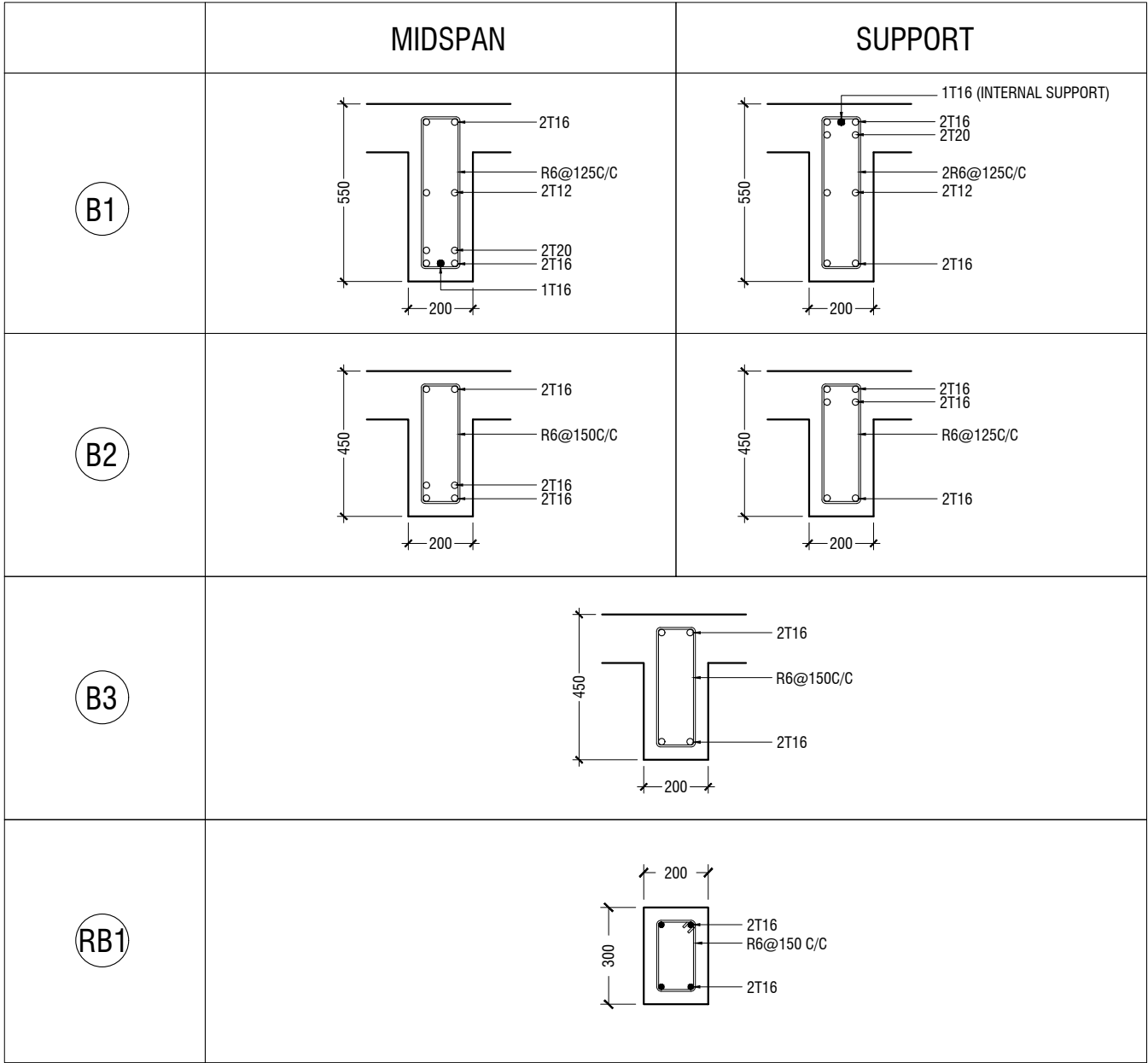
FOUNDATION DETAILS

	GROUND & 1ST FLOOR
C1	<p>Diagram showing the column detail C1. The dimensions are 500 (width) and 200 (depth). The reinforcement details are 10T20, 2R6@175c/c, and R6 HOOK@150c/c.</p>
C2	<p>Diagram showing the column detail C2. The dimensions are 400 (width) and 200 (depth). The reinforcement details are 8T20, 2T12, 2R6@150c/c, and R6 HOOK@150c/c.</p>
C3	<p>Diagram showing the column detail C3. The dimensions are 300 (width) and 200 (depth). The reinforcement details are 6T16, R6@150c/c, and R6 HOOK@150c/c.</p>
C4	<p>Diagram showing the column detail C4. The dimensions are 200 (width) and 200 (depth). The reinforcement details are 4T16 and R6@150c/c.</p>
SC	<p>Diagram showing the column detail SC. The dimensions are 150 (width) and 150 (depth). The reinforcement details are 2T10 and R6-150.</p>

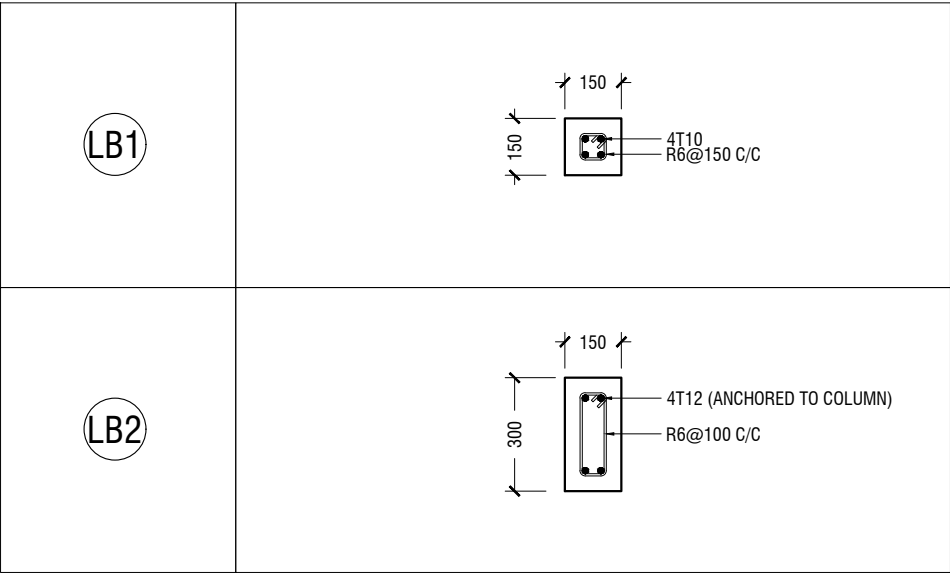
COLUMN DETAIL

STRUCTURAL DETAILS - 1

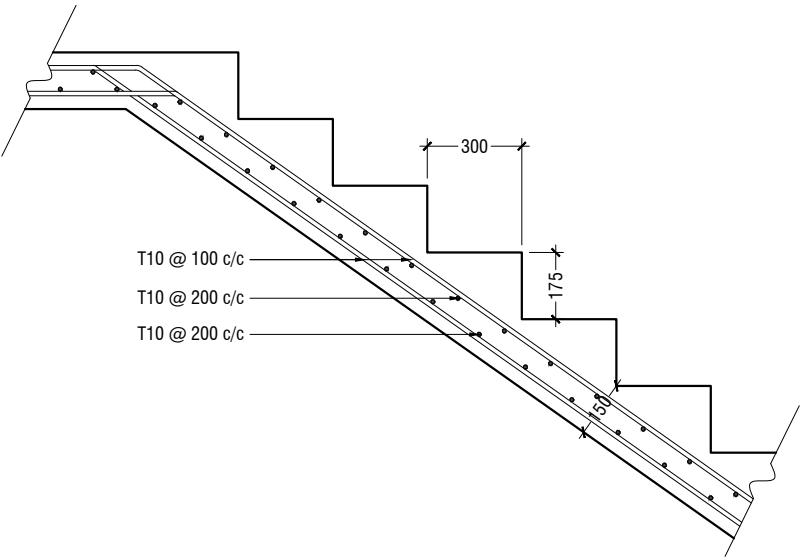




BEAM DETAIL



LINTELS OVER ALL DOORS, WINDOWS  
(THAT DOES NOT RISE TO ROOF BEAM LEVEL)  
LT2 FOR WINDOW (W2) ONLY



MAIN STAIRCASE REINFORCEMENT DETAIL

STRUCTURAL DETAILS - 2

