

Proposed 12 Classroom Block at
AA. Thoddoo School
(03 Storey)
Client: Ministry of Education

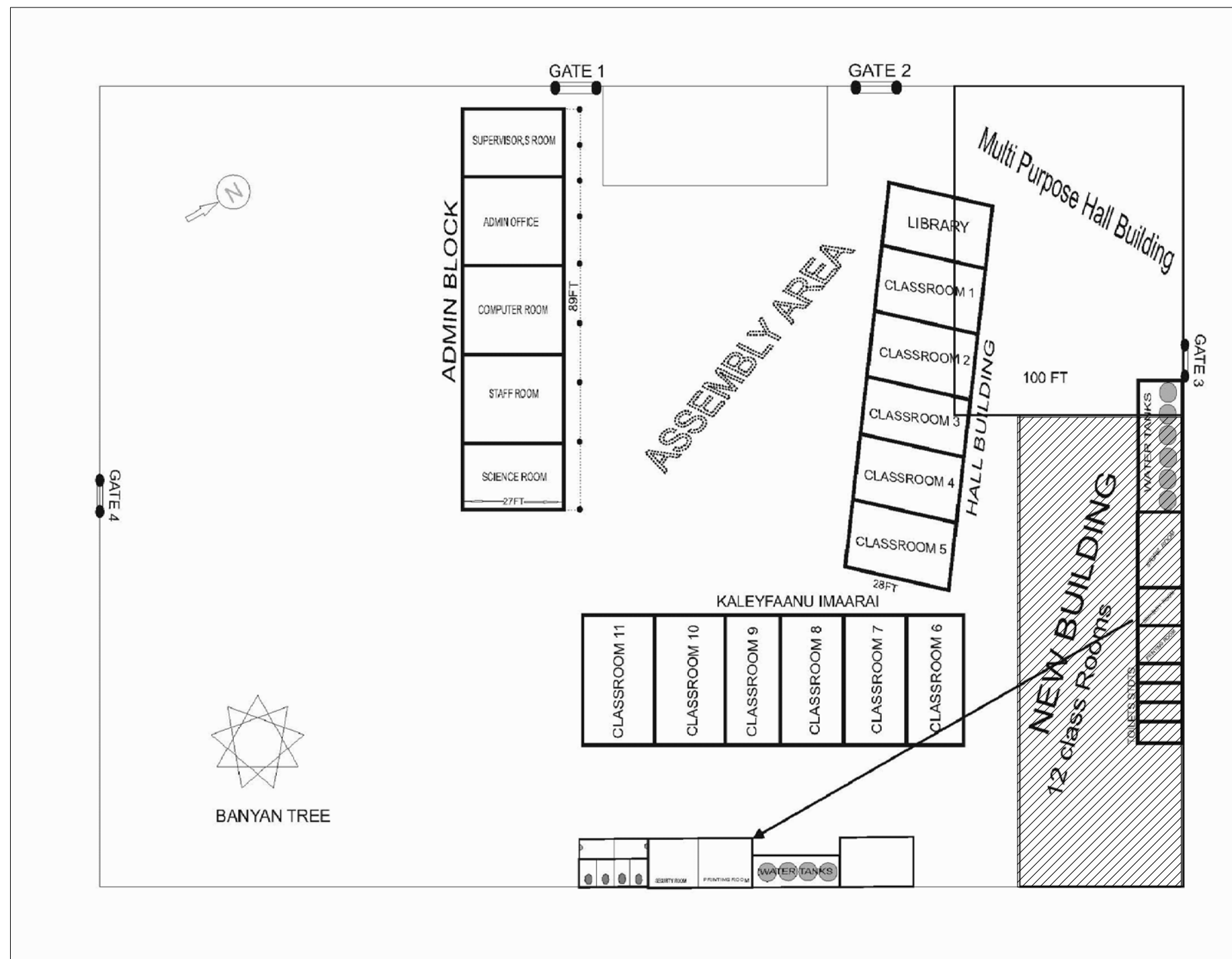


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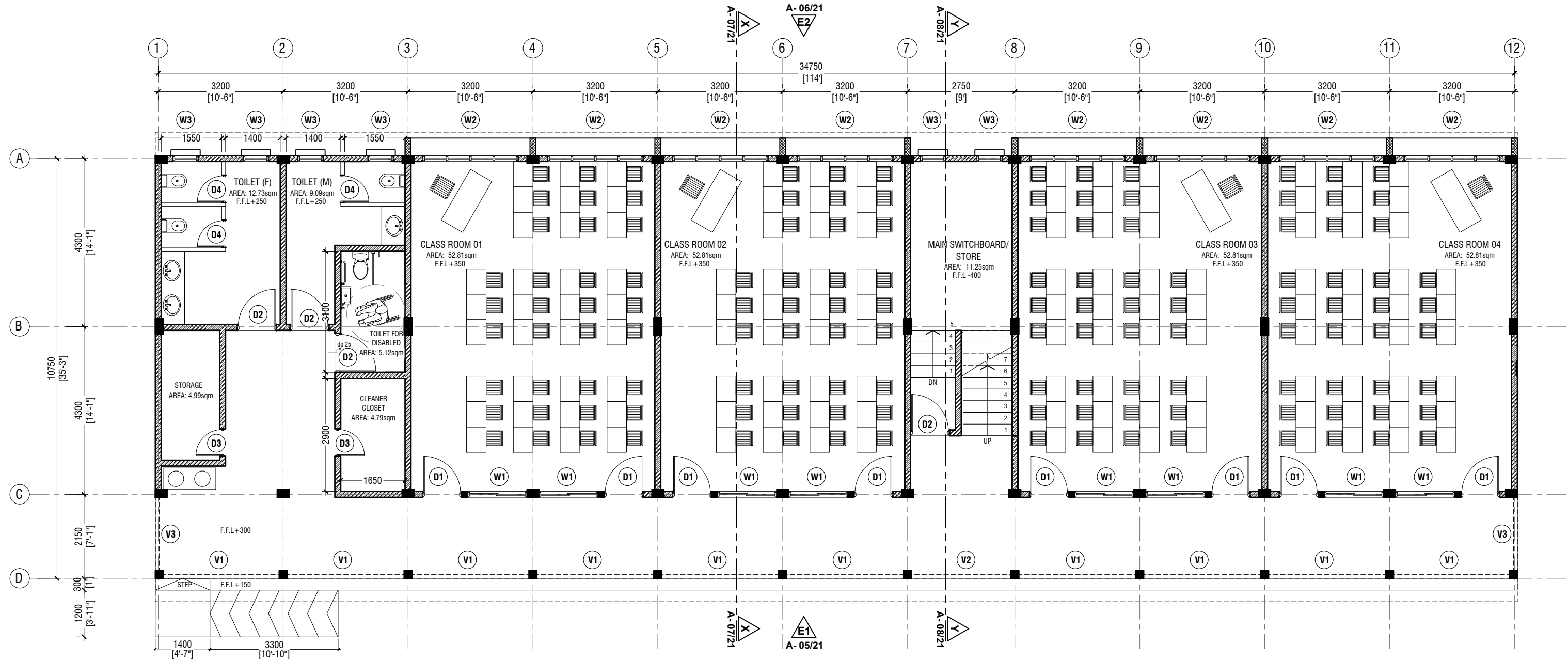
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3rd floor, H. Azum, Ameenemagu, Male'

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SITE PLAN



AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

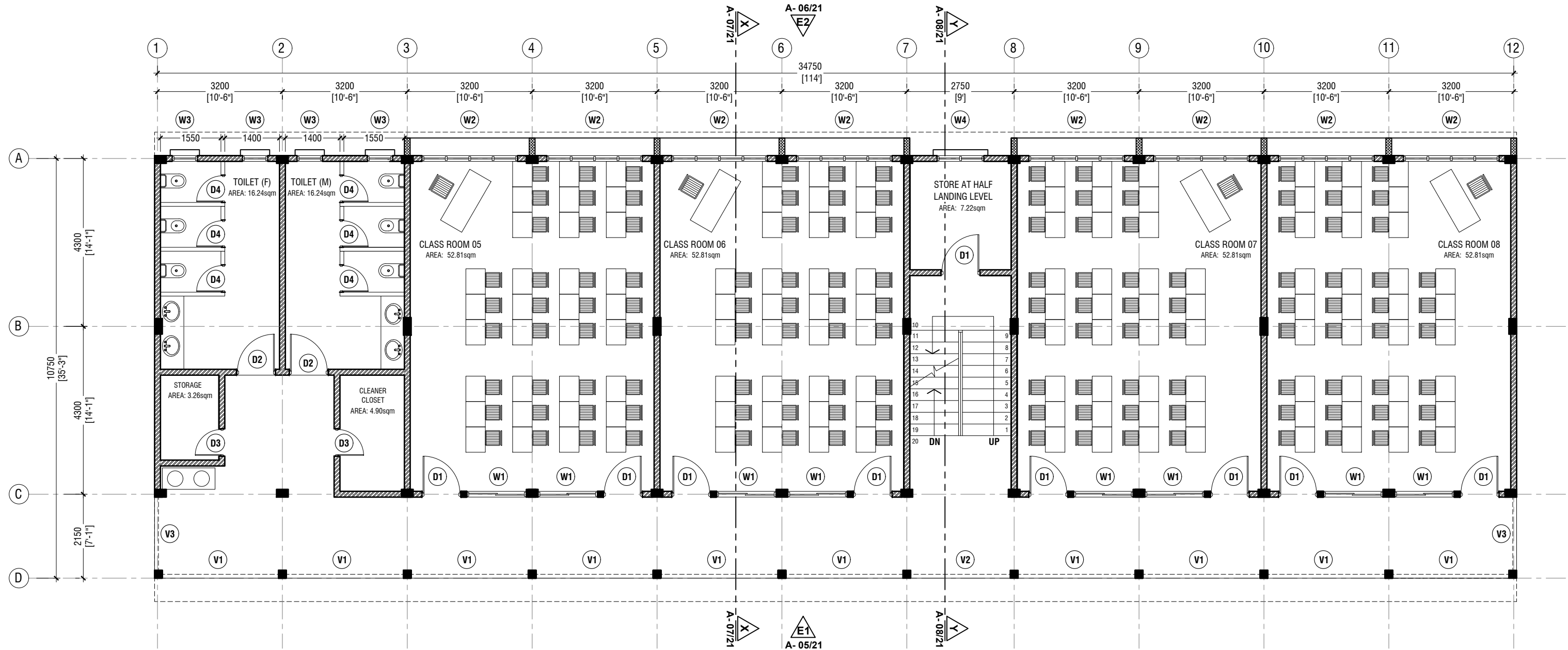
Project Number: RI/2017/012
Date: May 2019
Architect: Razana Amir
Engineer: Ahmed Zuhail Zaeem
Drawn by: Aishath Mohamed Rasheed
Services: Aishath Ahmed
Interior: -

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Title: Ground Floor Plan
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3rd floor, H. Azumi, Amineeremogu, Male'

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FIRST - SECOND 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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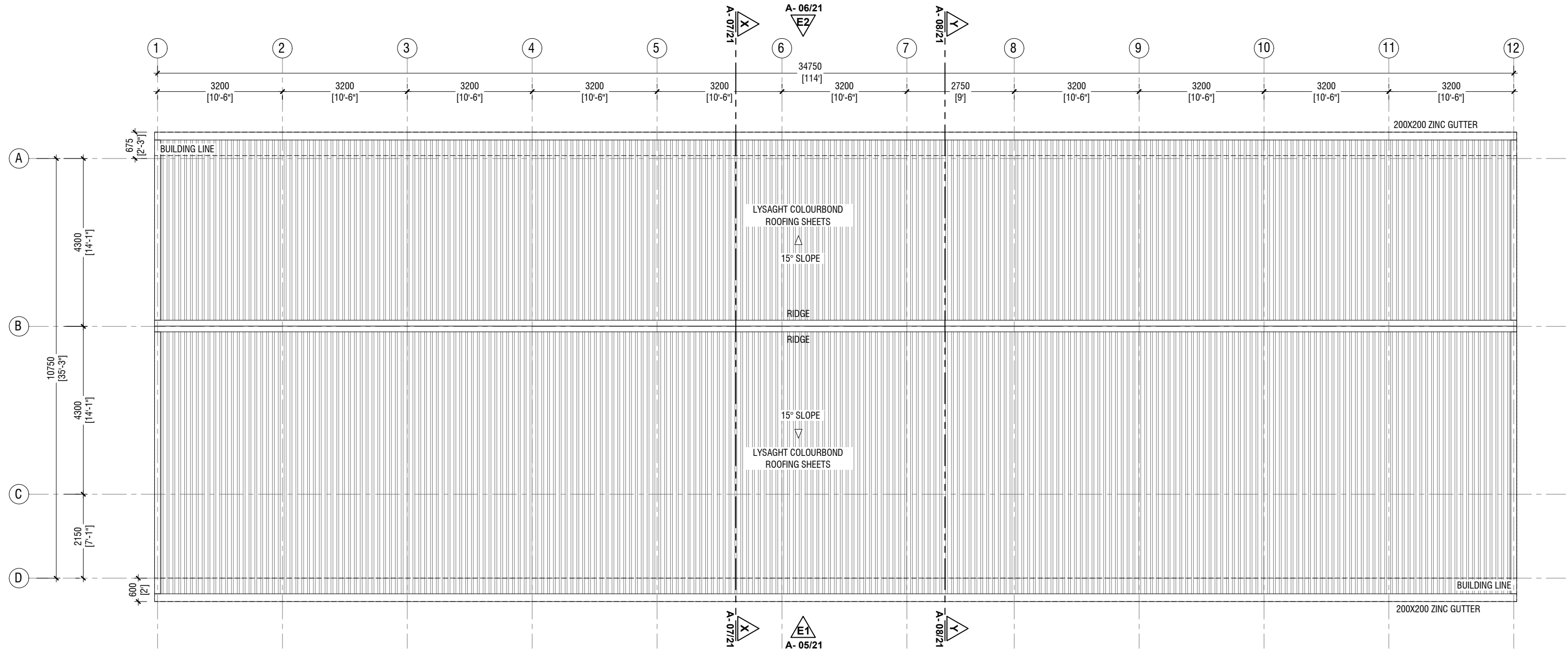
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Project Number: RI/2017/012
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Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

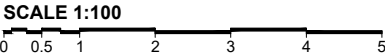
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Title: First - Third Floor Plan

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ROOF PLAN





ELEVATION E1

SCALE 1:100



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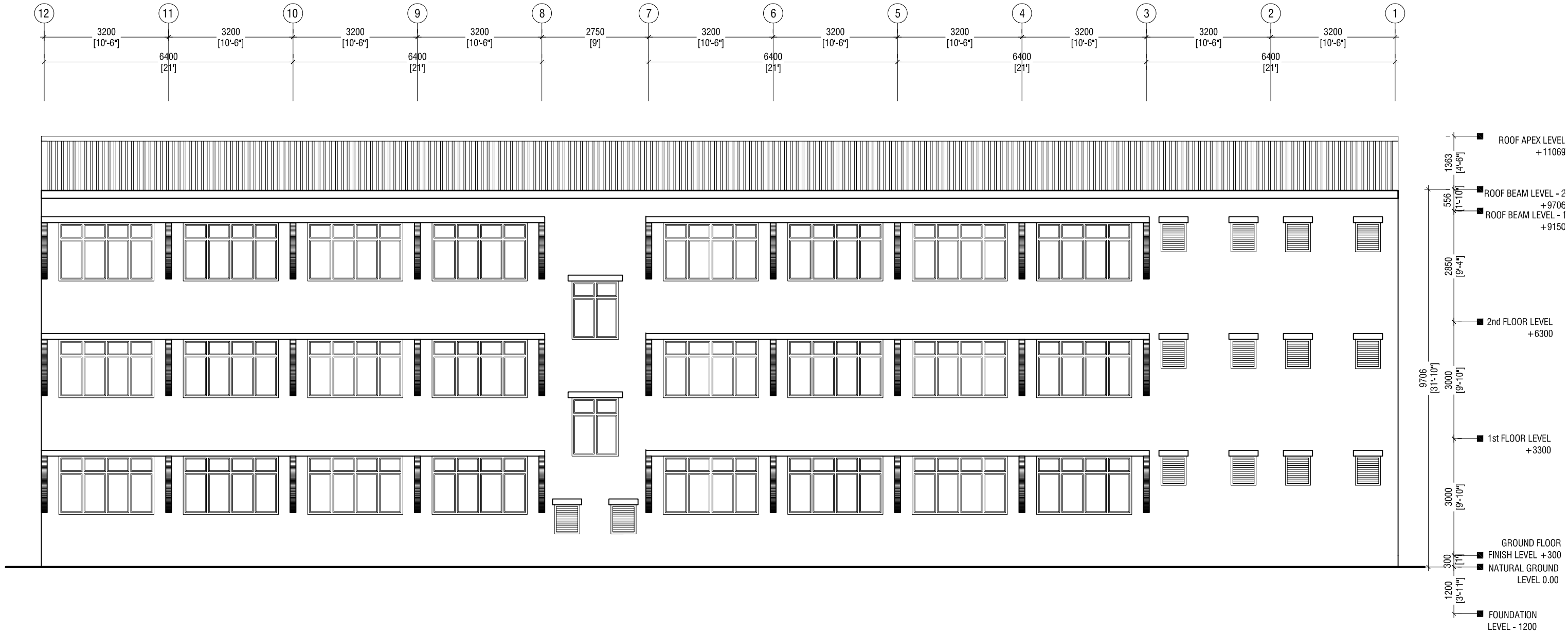
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Services : Aishath Ahmed
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Title: Elevation E1

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ELEVATION E2

SCALE 1:100



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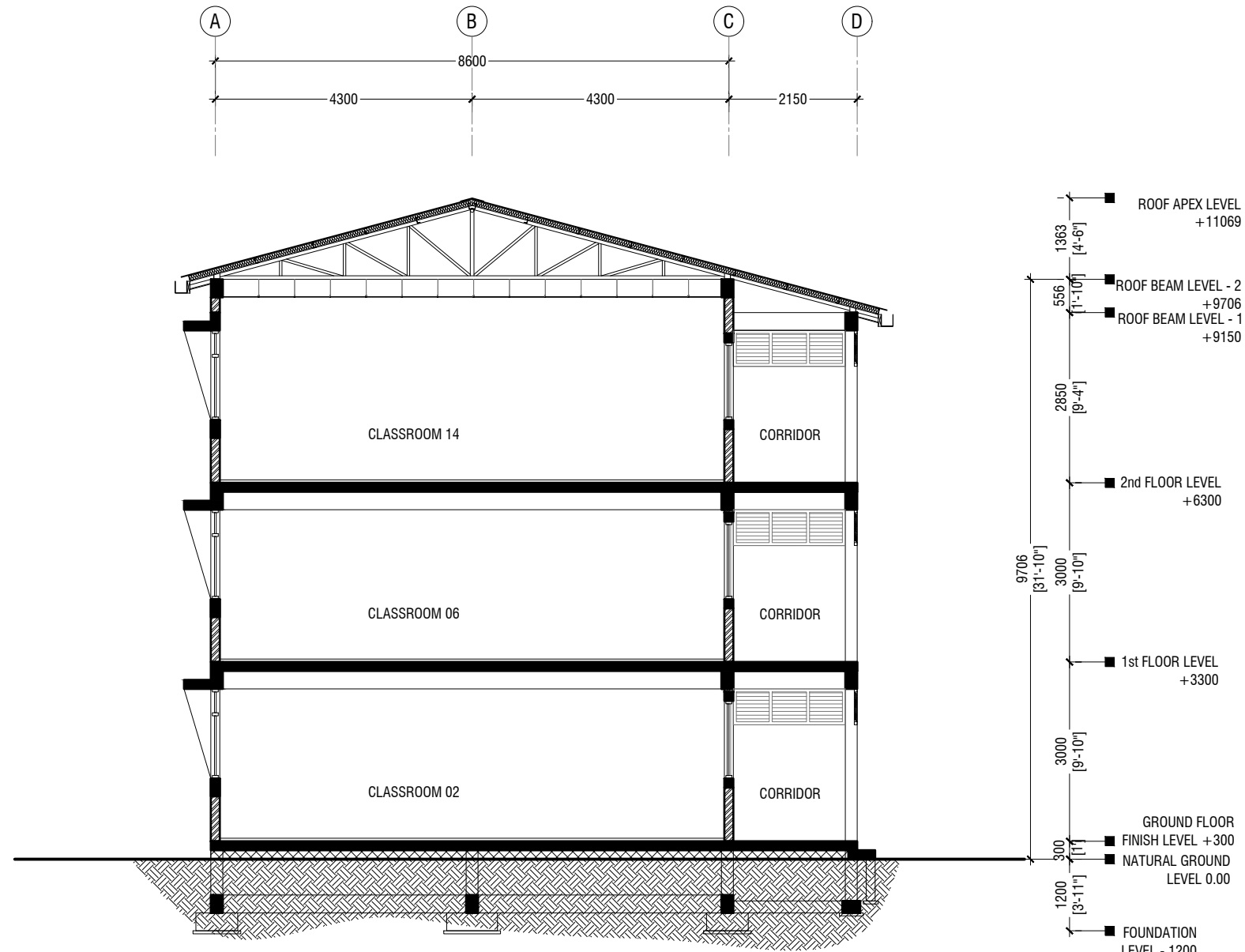
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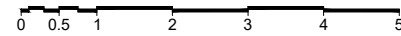
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SECTION X-X

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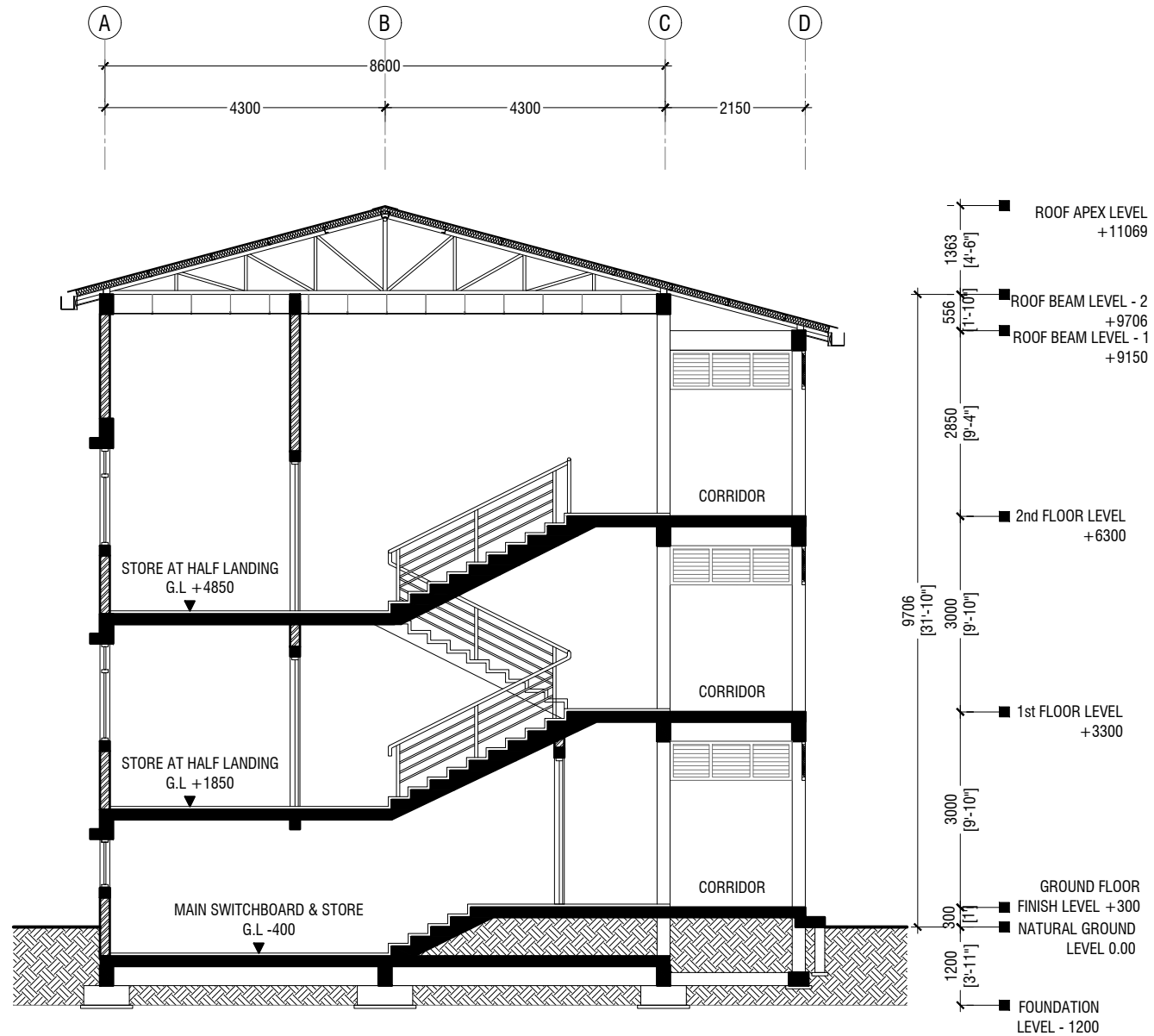
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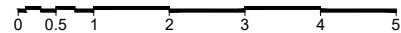
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SECTION Y-Y

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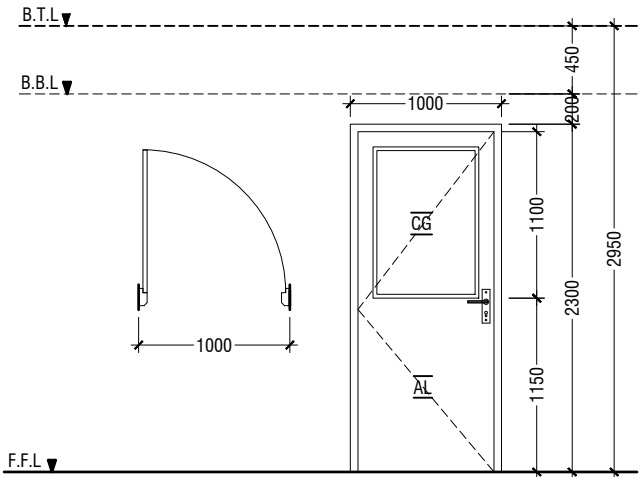
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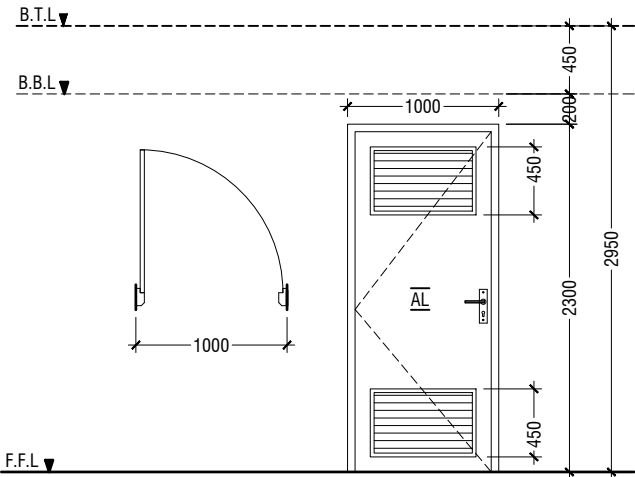
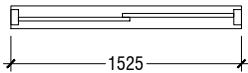
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Title: Section Y-Y

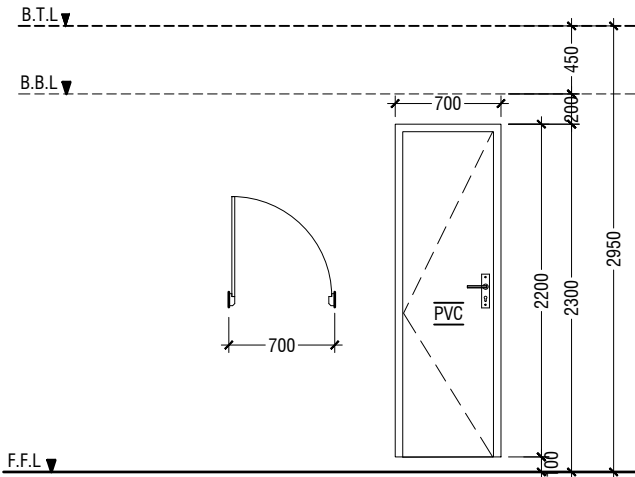
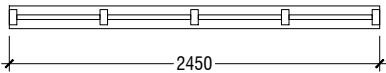
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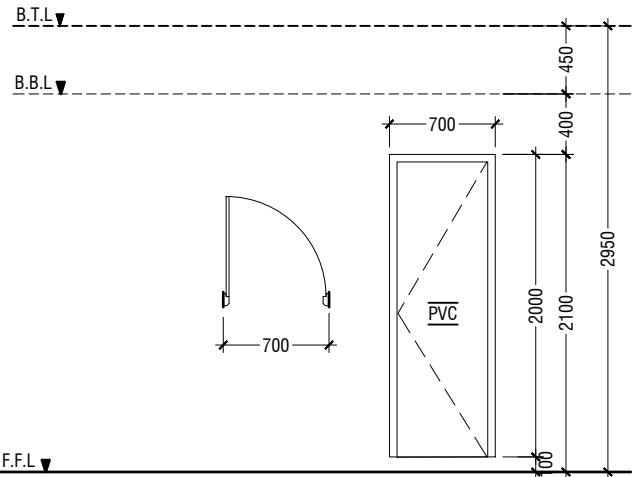
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS & HALF LANDING STORE ROOM
QUANTITY	26 NOS
OPEN AREA	2.03 sqm



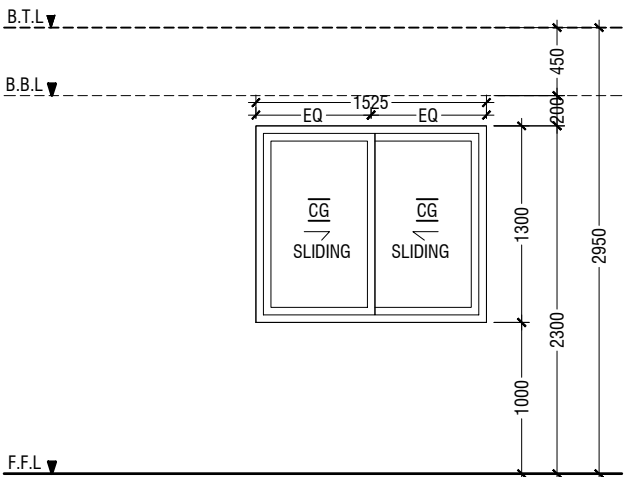
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	08 NOS
OPEN AREA	2.03 sqm



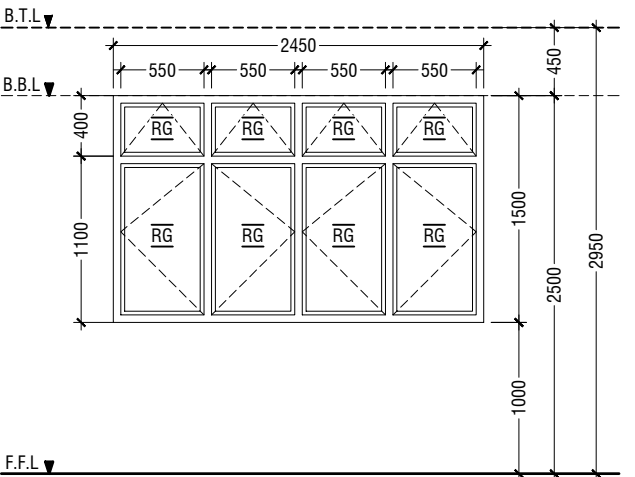
D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & CLEANER CLOSET
QUANTITY	06 NOS
OPEN AREA	1.29 SQM



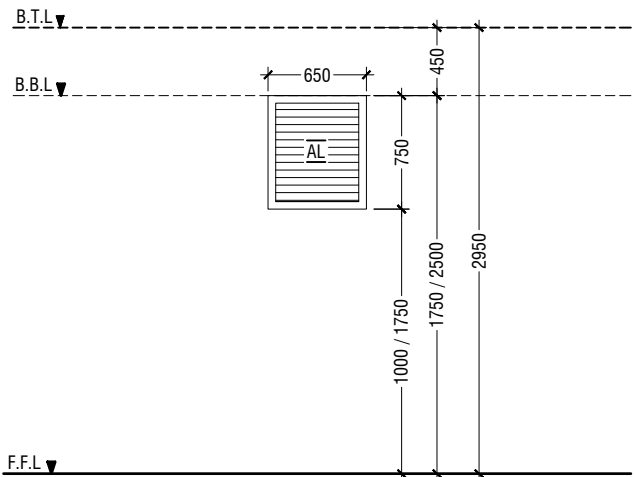
D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	15 NOS
OPEN AREA	1.17 SQM



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	14 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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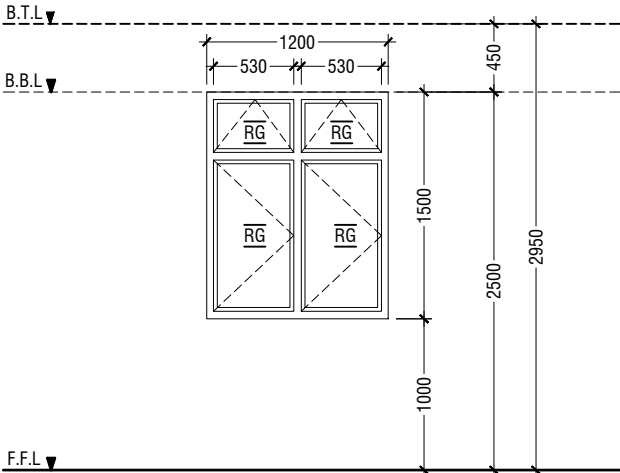
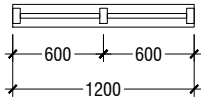
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Interior : -

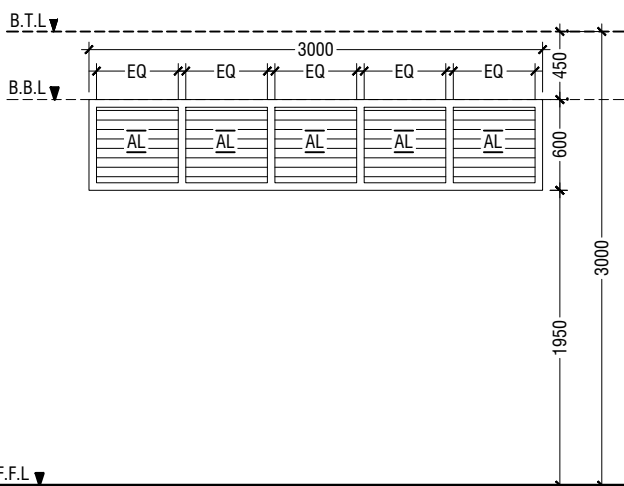
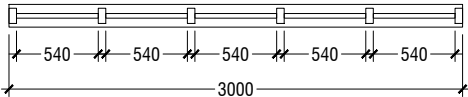
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Title: Door & Window
Schedule - 1

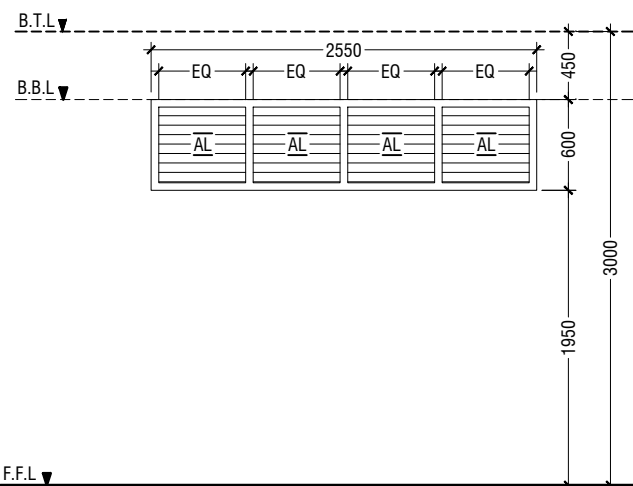
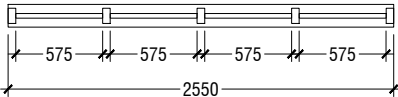
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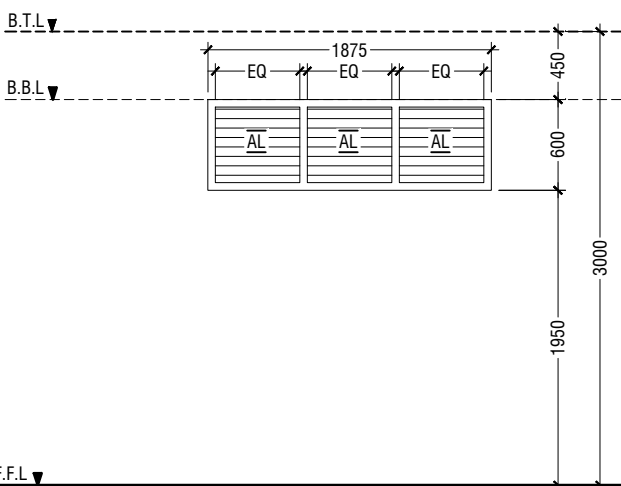
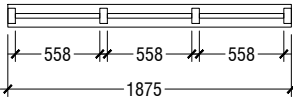
W4	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	HALF LANDING STORE ROOM
QUANTITY	2 NOS
OPEN AREA	1.43 sqm



V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	30 NOS
OPEN AREA	1.35 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	03 NOS
OPEN AREA	1.15 SQM



V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	06 NOS
OPEN AREA	0.84 SQM

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

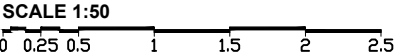
NOTE:-
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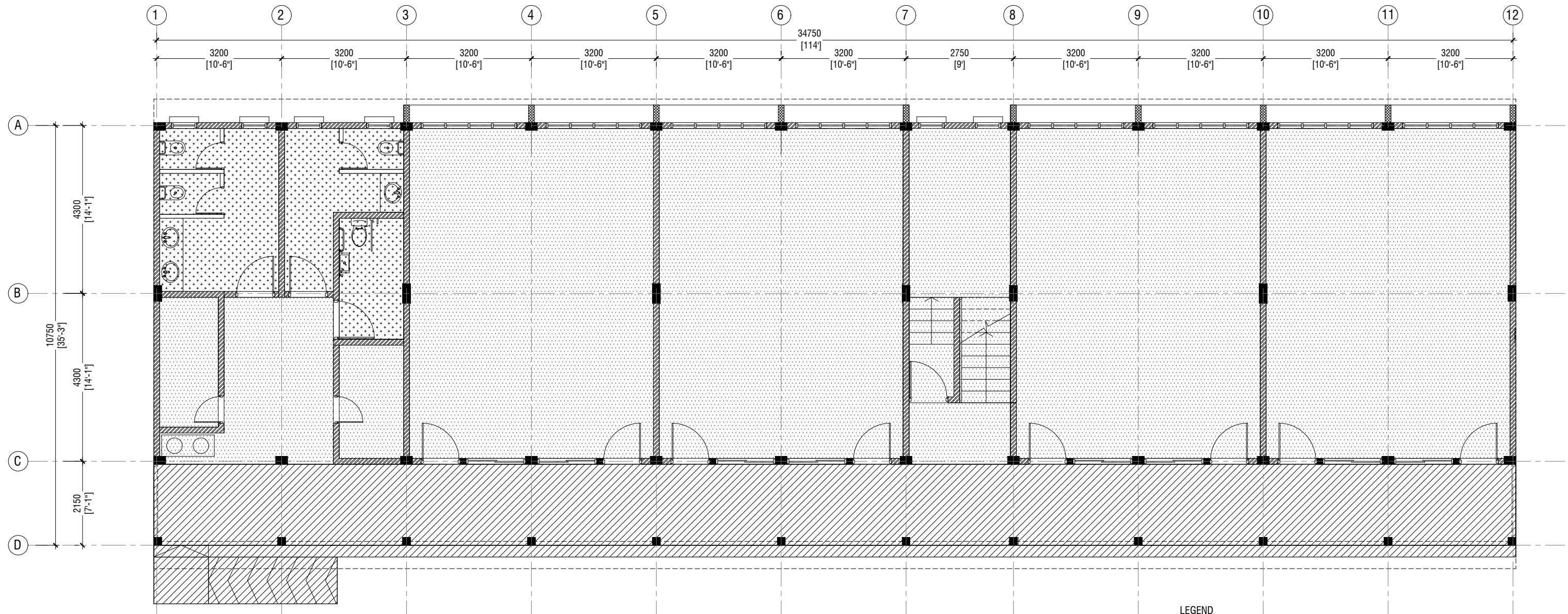
DOOR & WINDOW SCHEDULE 2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

SCHEDULE OF VENTILATION FOR AA.THODHOO 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 %
<u>Ground Floor</u>					
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 Classroom 4	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
5 Toilet (F)	12.73	D2 & 2W3	1.27	2.75	21.60%
6 Toilet (M)	9.09	D2 & 2W3	0.91	2.75	30.25%
7 Toilet for disabled	5.12	D2	0.51	2.03	39.65%
8 Storage	4.99	D3	0.50	1.29	25.85%
9 Cleaner closet	4.79	D3	0.48	1.29	26.93%
10 Main switchboard /store	11.25	Mechanical Ventilation			
<u>First to Second Floor</u>					
1 Classroom 5	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
2 Classroom 6	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
3 Classroom 7	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
4 Classroom 8	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
5 Toilet (F)	16.24	D2 & 2W3	1.62	2.75	16.93%
6 Toilet (M)	16.24	D2 & 2W3	1.62	2.75	16.93%
7 Storage area	3.26	D3	0.33	1.29	39.57%
8 Store at half landing level	7.22	W4	0.72	1.43	19.81%
9 Cleaner closet	4.90	D3	0.49	1.29	26.33%

VENTILATION SCHEDULE



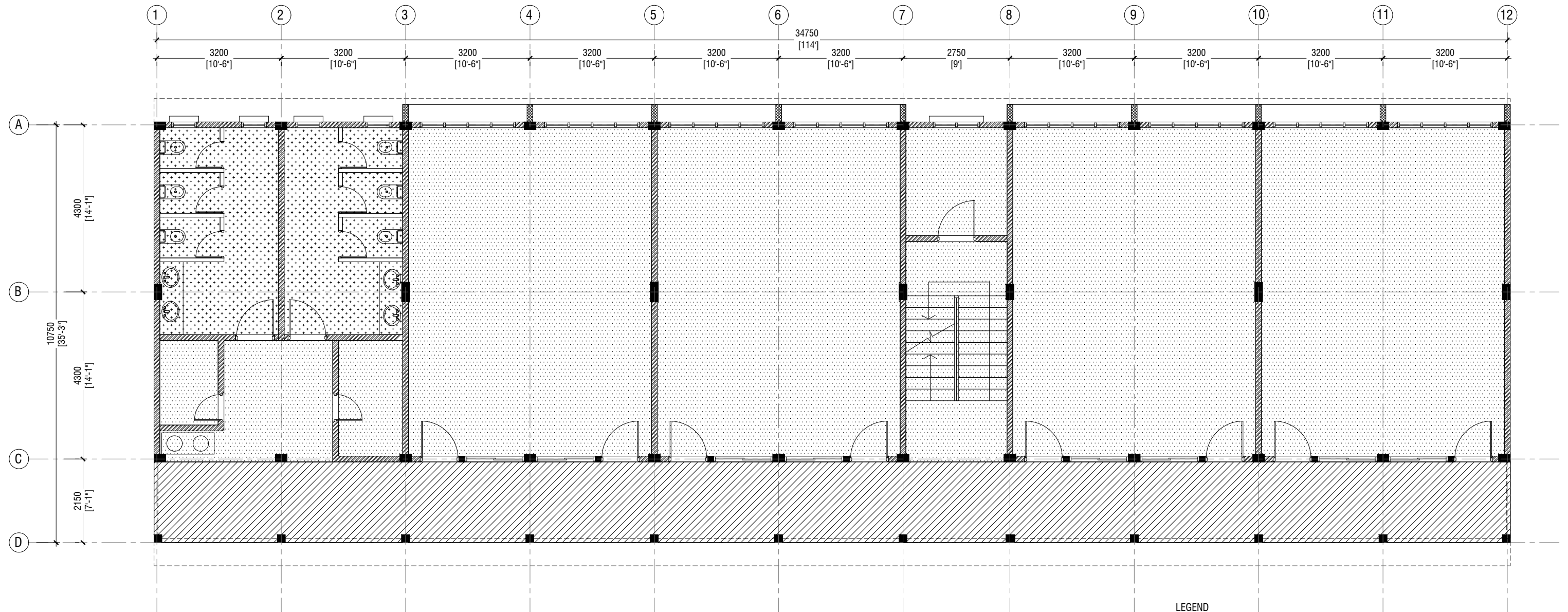


**GROUND FLOOR
FLOOR FINISHES PLAN**
SCALE 1:100



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



FIRST - SECOND 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
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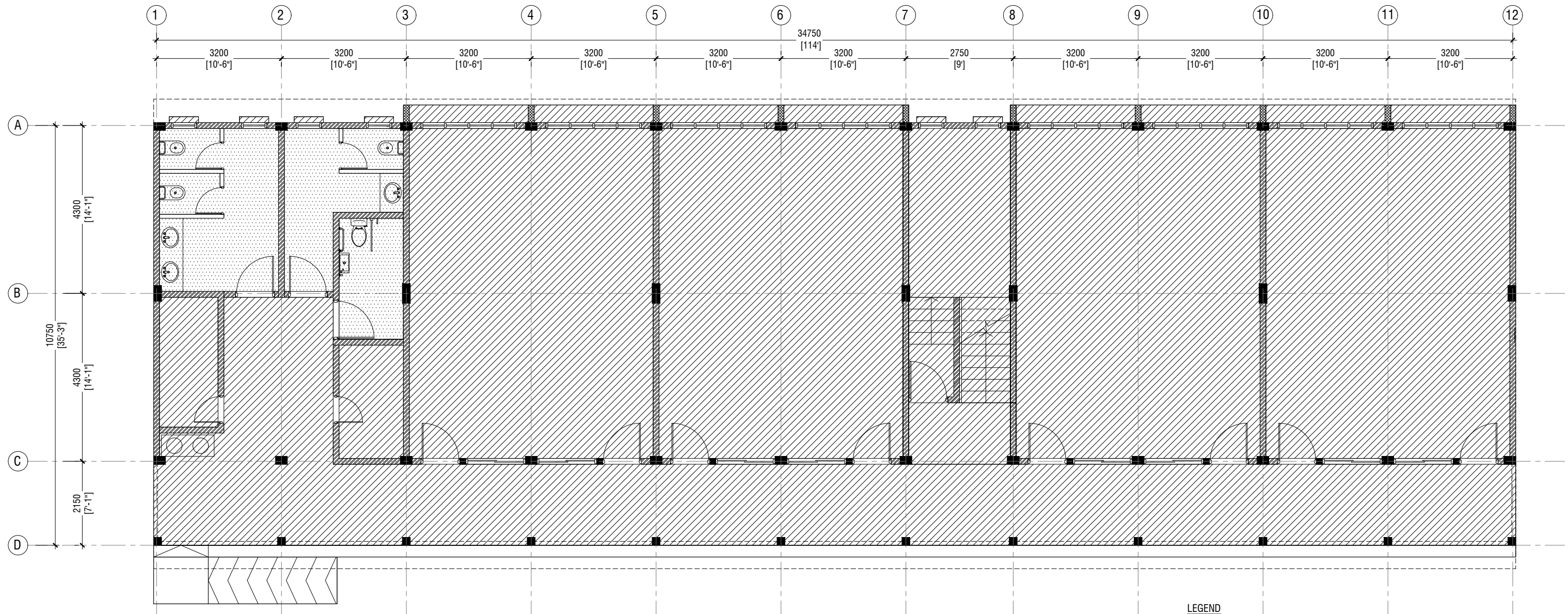
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Interior : -

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Title: First - Third Floor
Floor Finishes Plan

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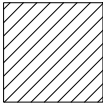
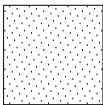


**GROUND FLOOR
REFLECTED CEILING PLAN**

SCALE 1:100



LEGEND

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



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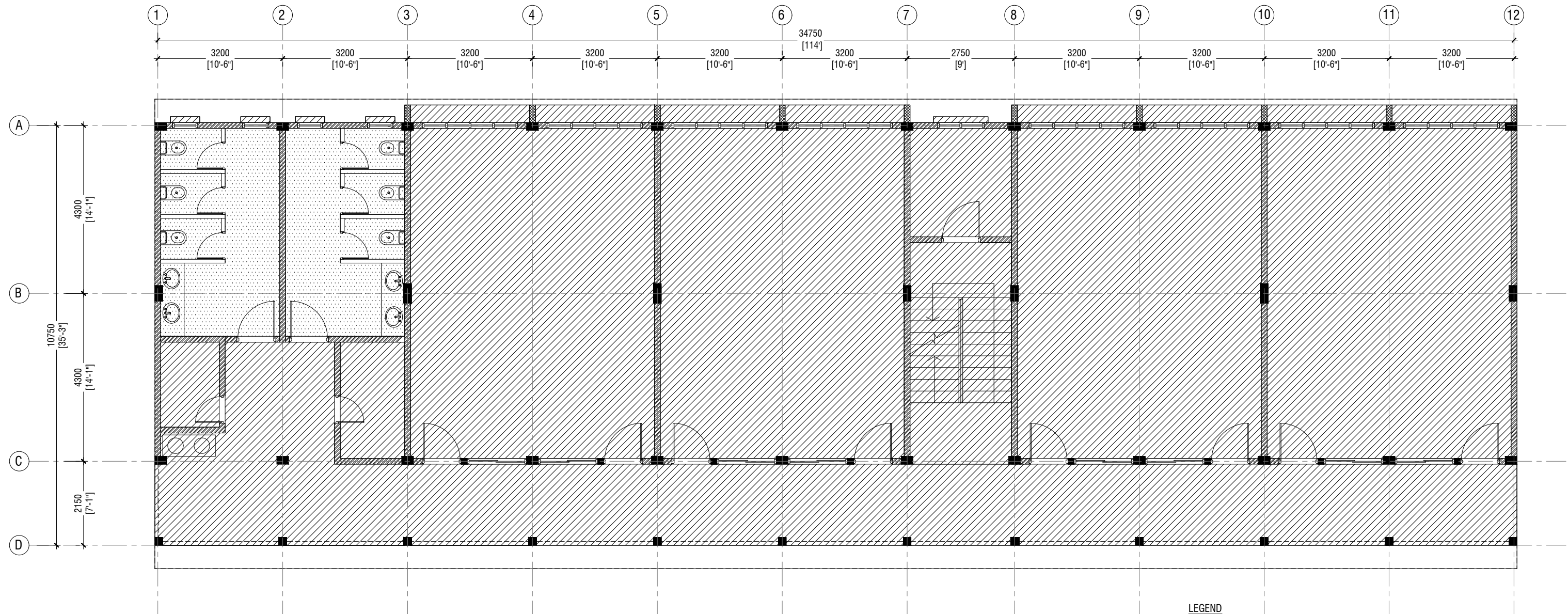
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Title: Ground Floor
Reflected Ceiling Plan

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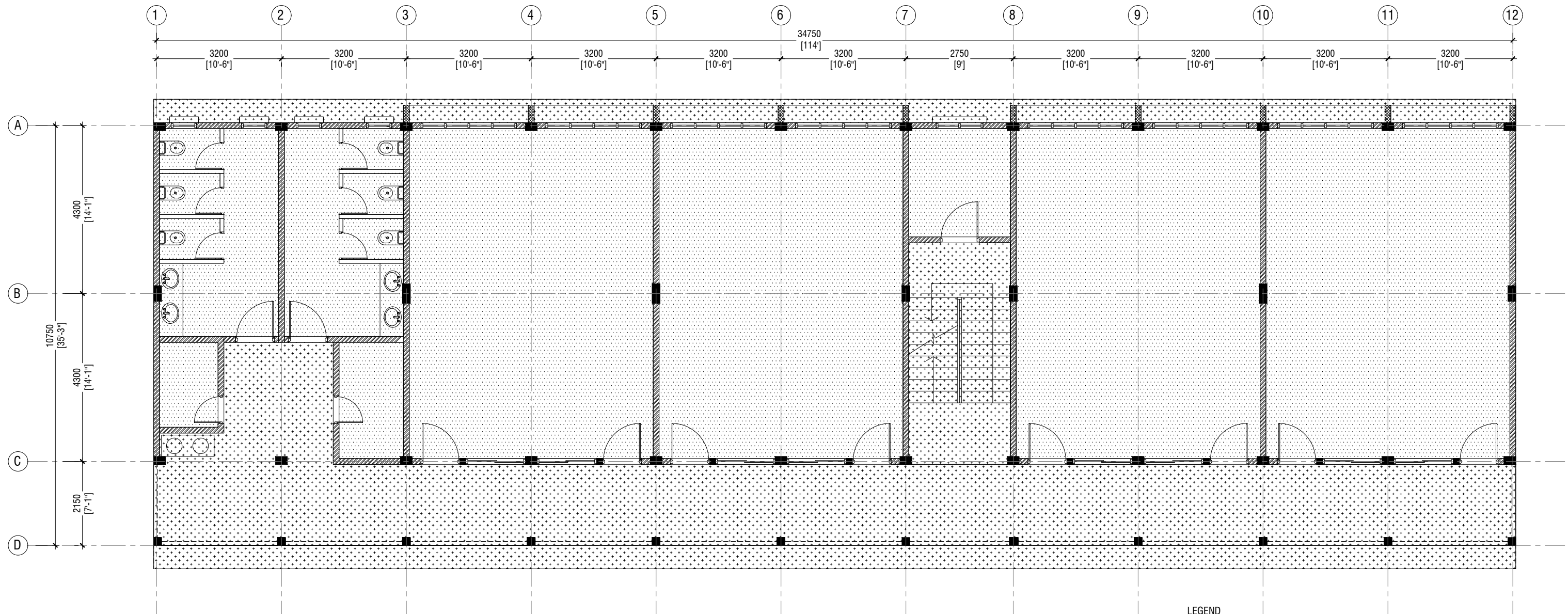
AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

Rev no	Date
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Title: First - Second Floor
Reflected Ceiling Plan

Page: A-15/21



SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1:100



LEGEND

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



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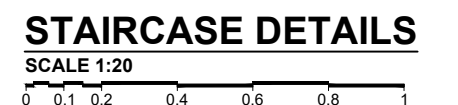
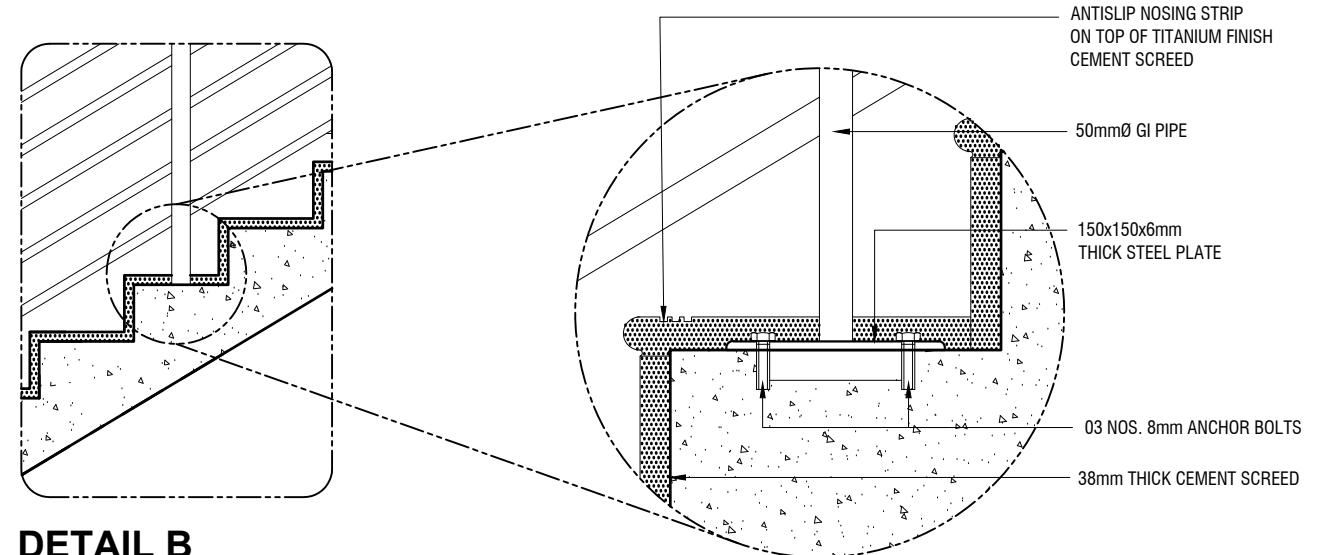
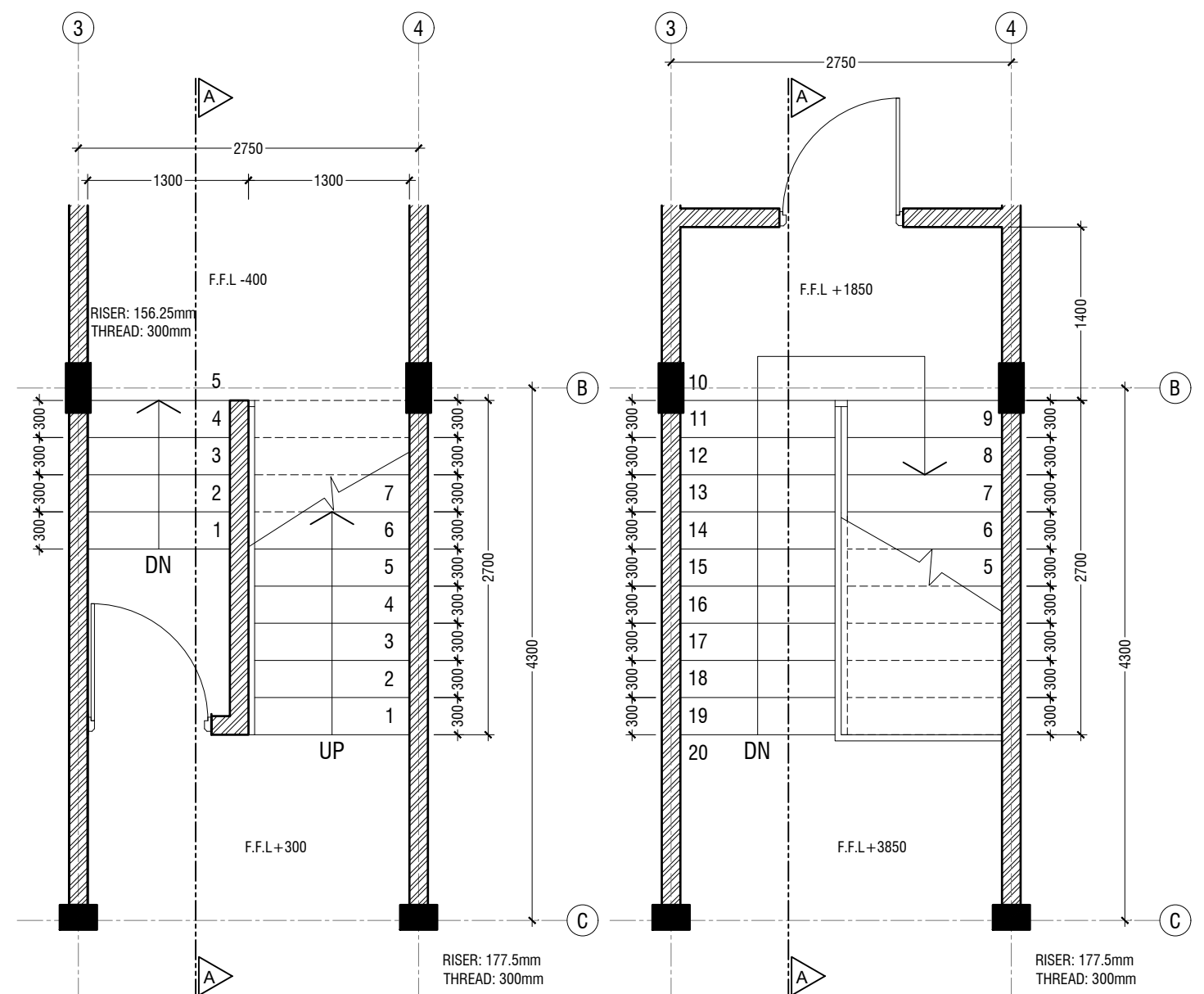
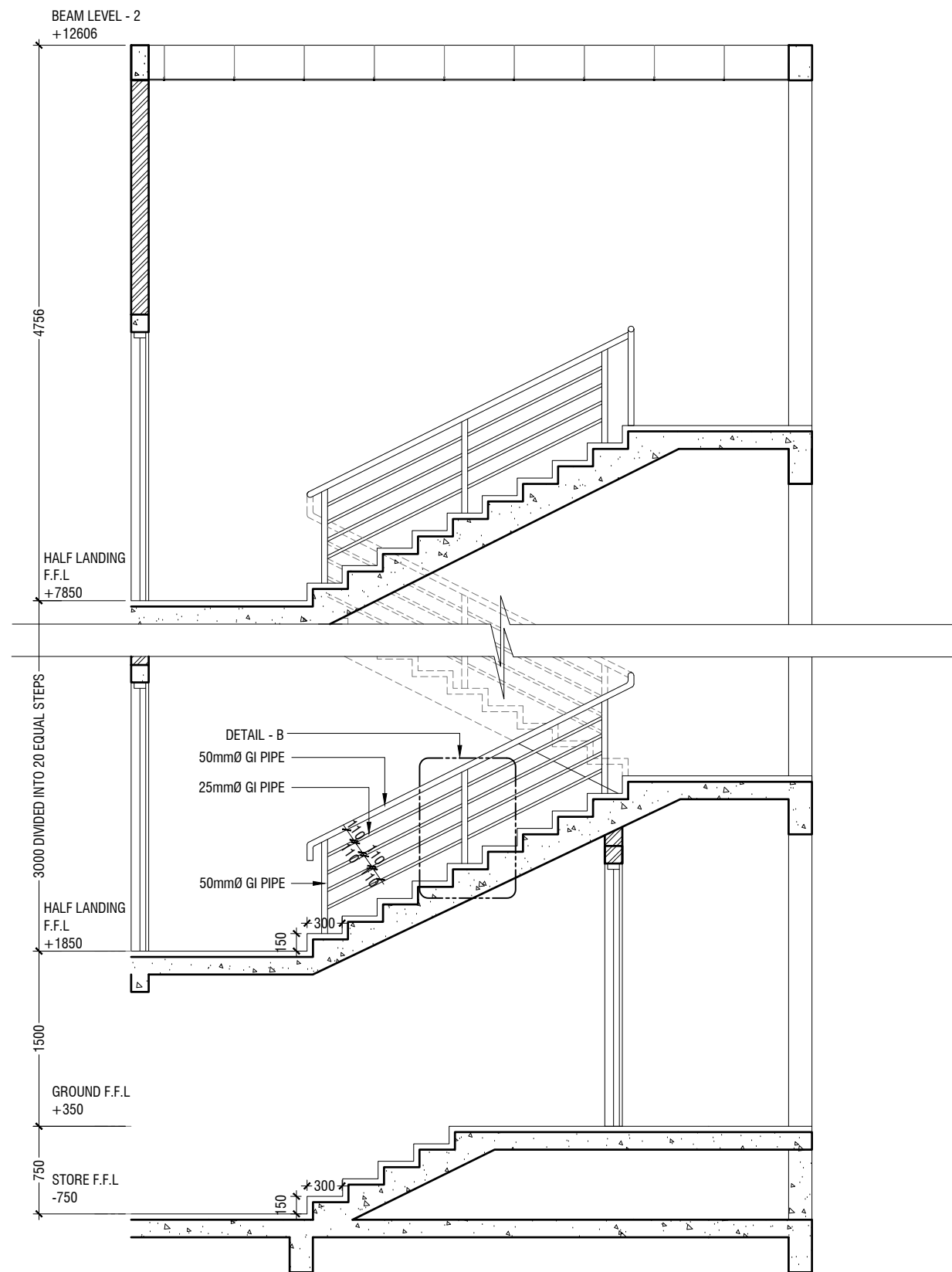
AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

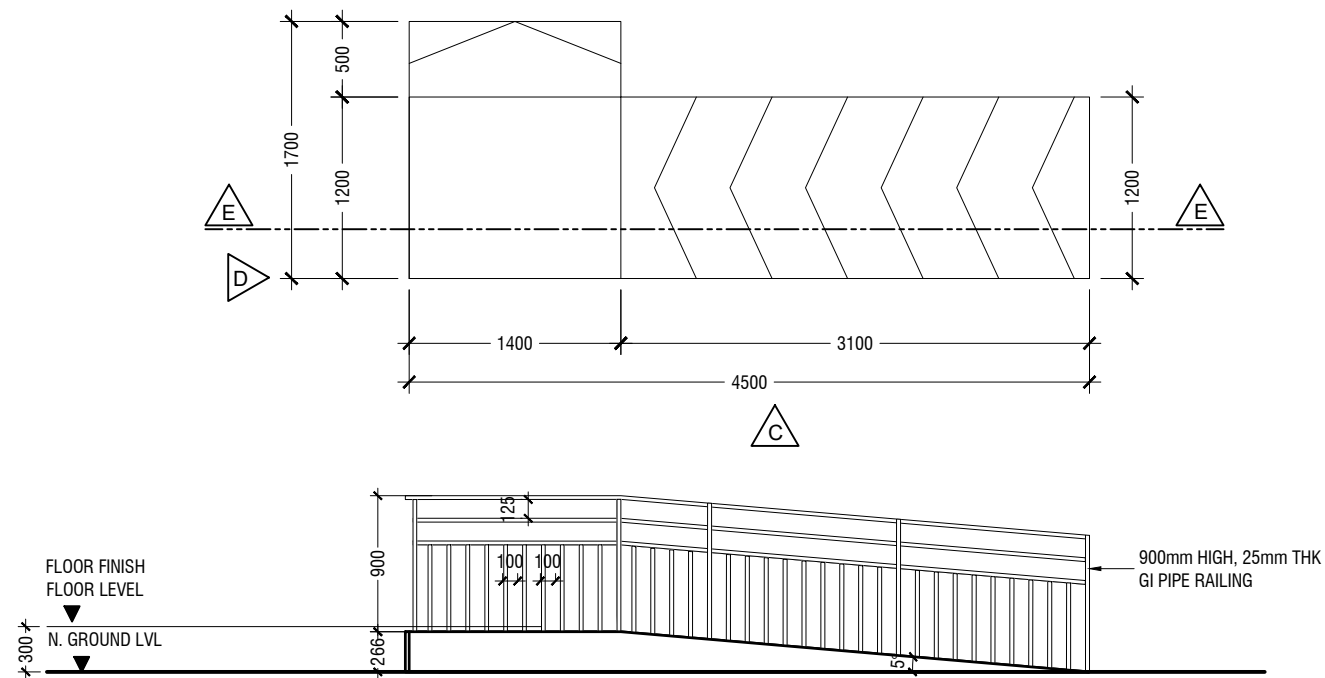
Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

Rev no	Date
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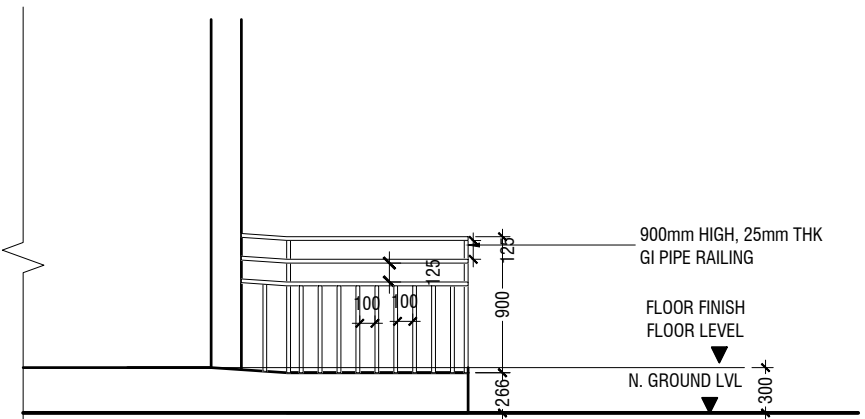
Title: Third Floor
Reflected Ceiling Plan

Page: A-16/21

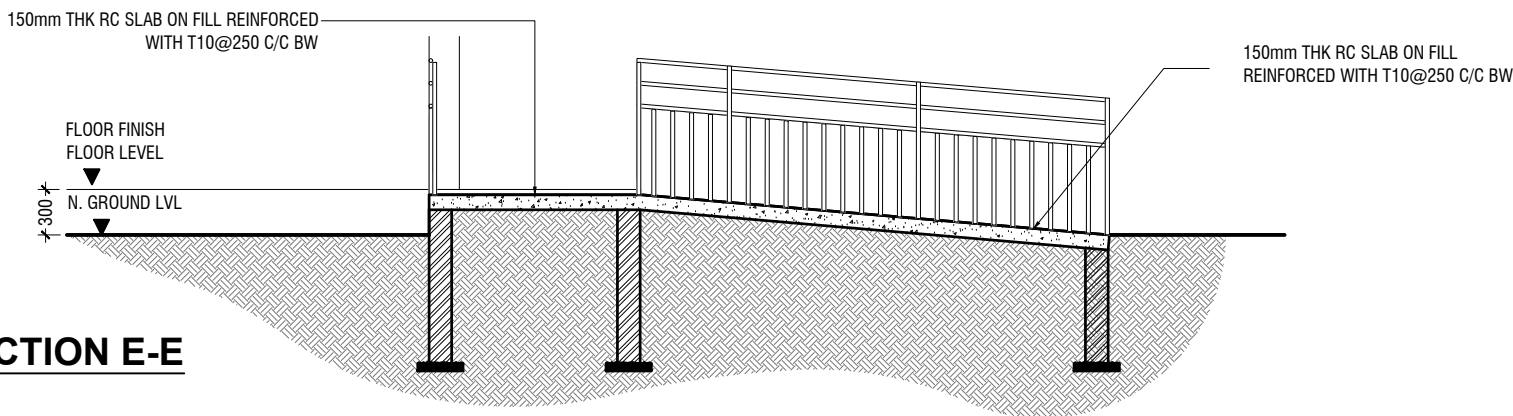




ELEVATION C



ELEVATION D



SECTION E-E

MAIN ENTRANCE RAMP DETAILS

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



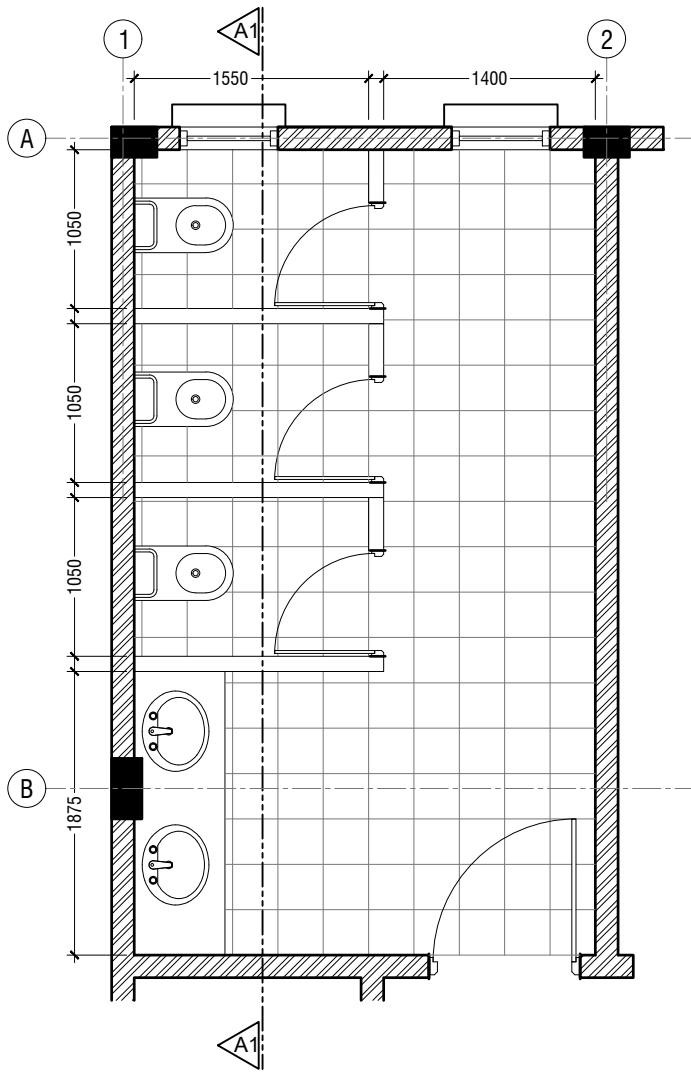
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Client: Ministry of Education

Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhair Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

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Title: Main Entrance Ramp
Details
Page: A-18/21

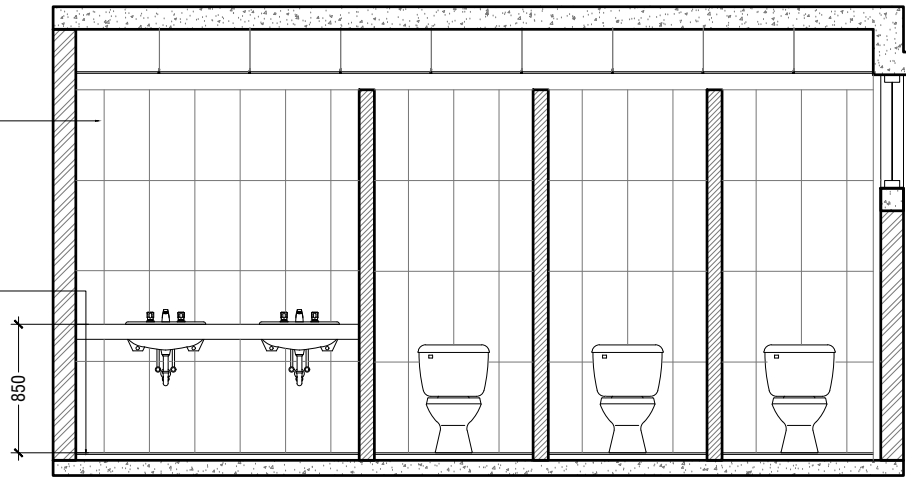


TYPICAL TOILET PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

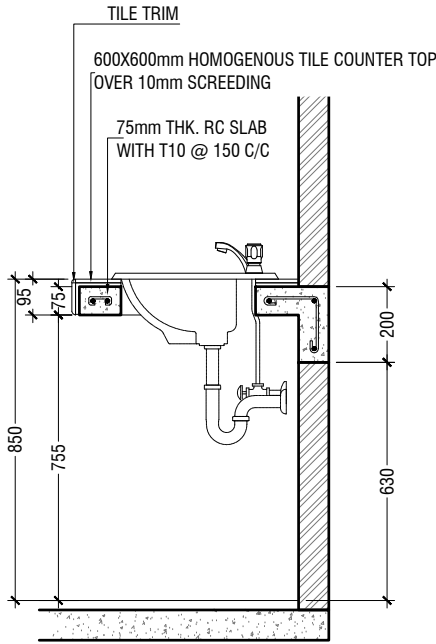
300x600mm HOMOGENOUS TILES
OVER 50mm SCREEDING

300X300mm HOMOGENOUS NON-SLIP
TILES OVER 50mm SCREEDING



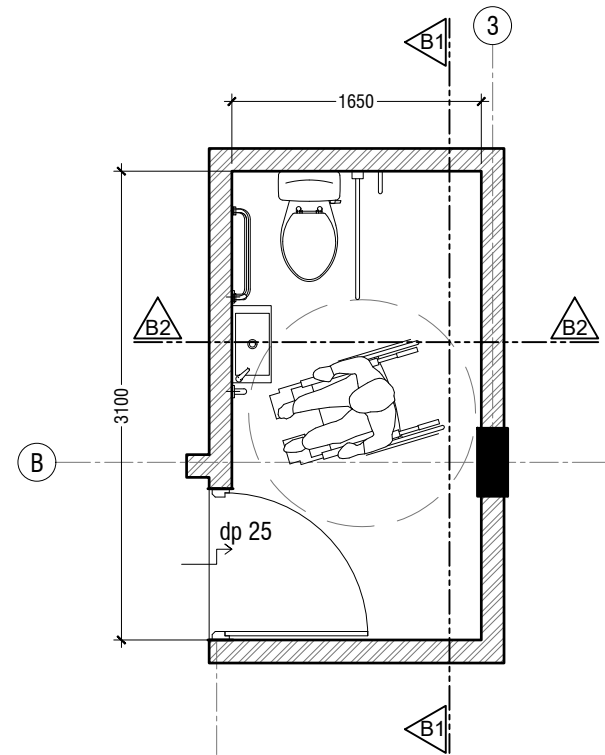
SECTION A1-A1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



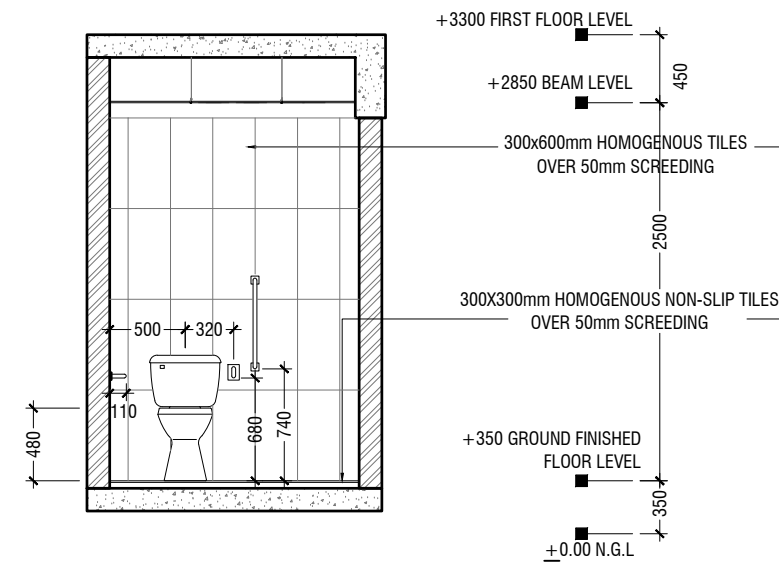
COUNTER TOP DETAILS

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1



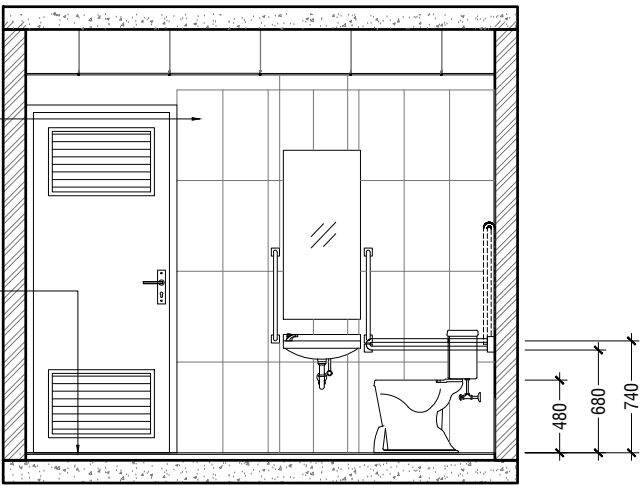
**TOILET FOR PERSONS WITH
DISABILITIES PLAN**

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



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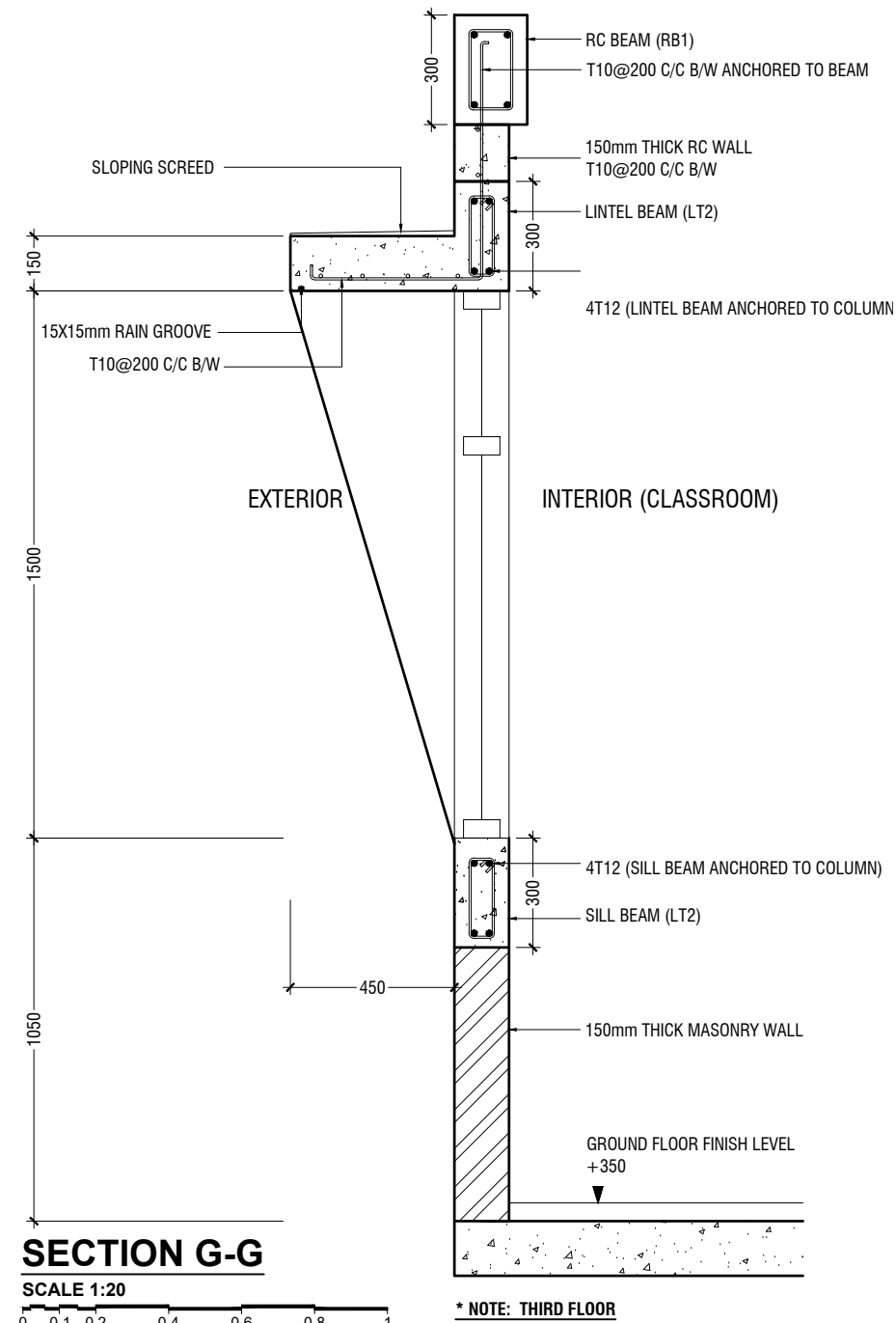
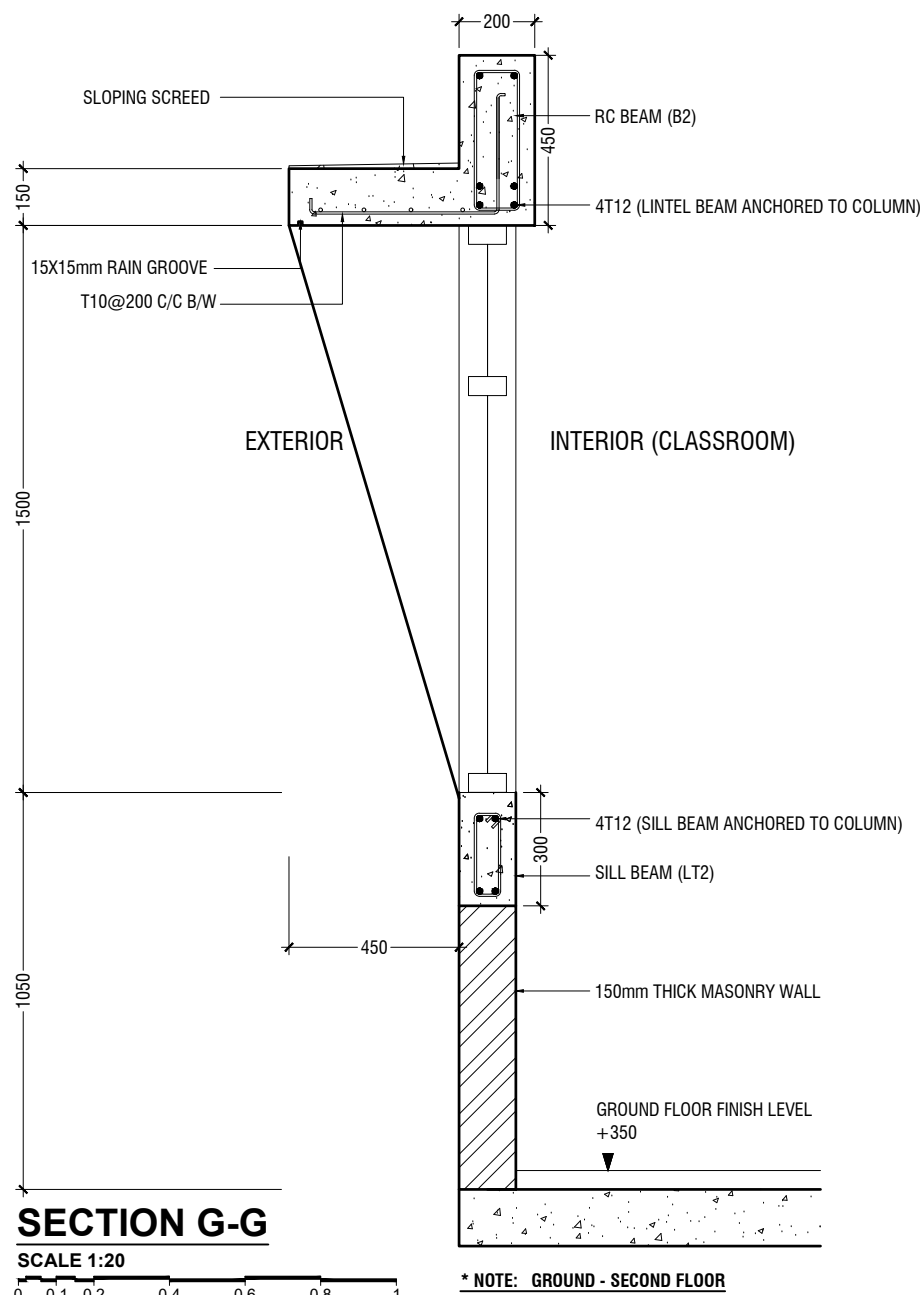
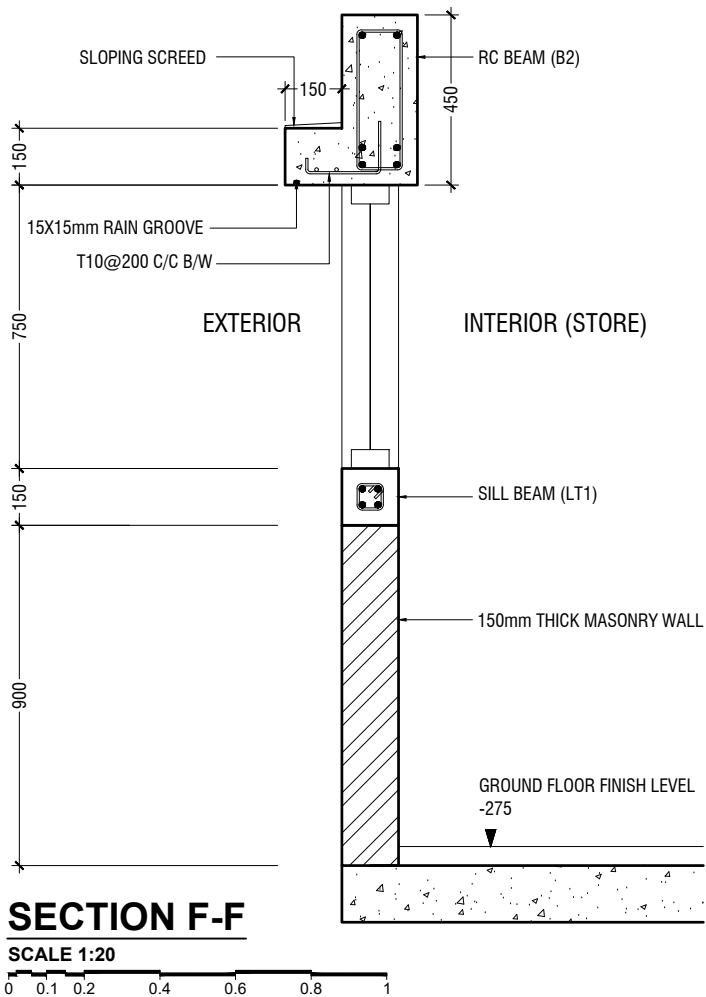
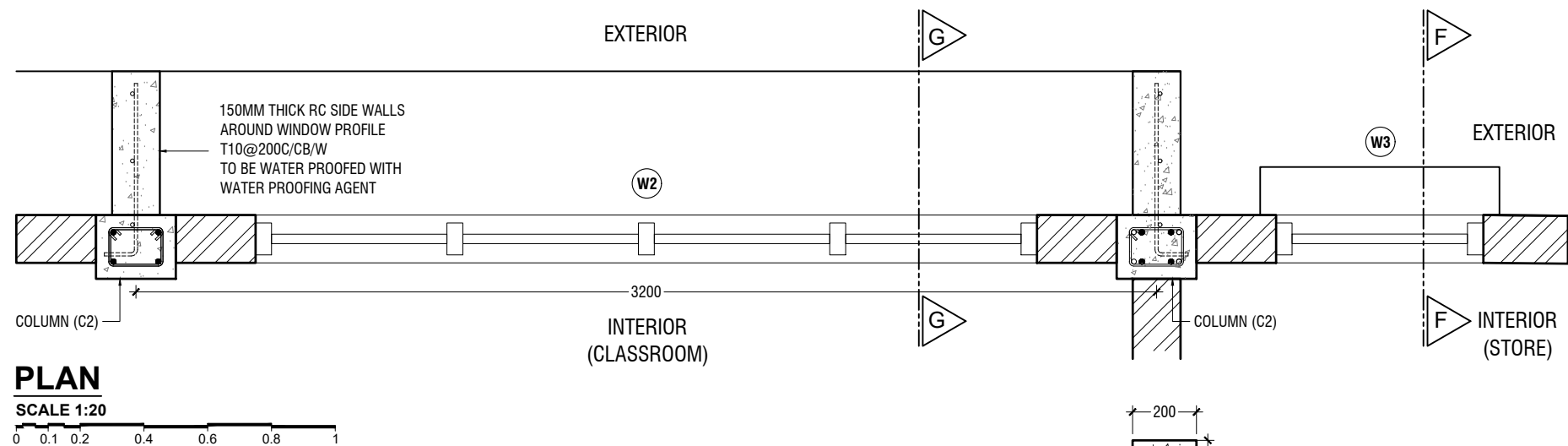
AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

Rev no	Date
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Title: Toilet Details

Page: A-19/21



RC WALL DETAILS

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



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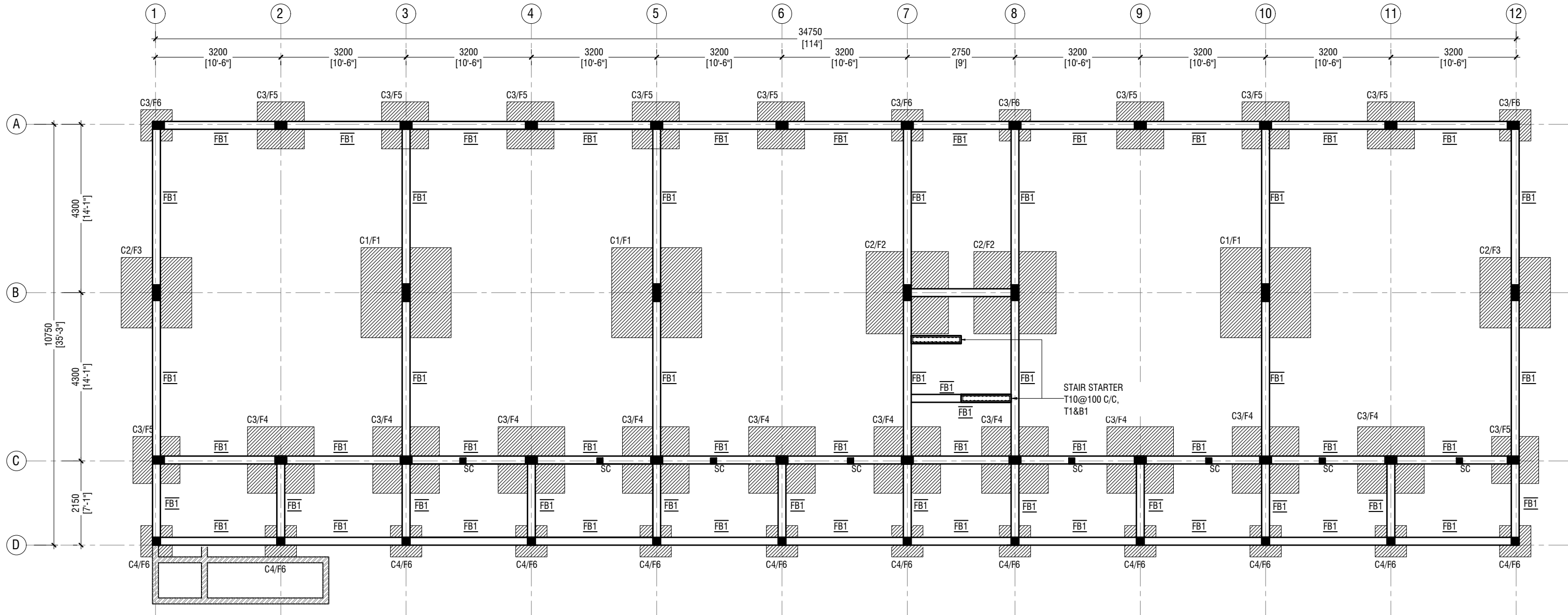
AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhair Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

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Title: RC Wall Details

Page: A-21/21



FOUNDATION PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

NOTE:

COLUMN SIZES

C1 : 200 x 450 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	2300 x 2300 x 400	T12@100 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2100 x 2100 x 400	T12@125 C/C B/W (B) & T12@200 C/C B/W (T)
F3	1800 x 1800 x 350	T12@150 C/C B/W (B)
F4	1700 x 1700 x 350	T12@150 C/C B/W (B)
F5	1200 x 1200 x 350	T12@200 C/C B/W (B)
F6	800 x 800 x 350	T12@200 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

TB1 : 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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Project Number: RI/2017/012
Date: May 2019

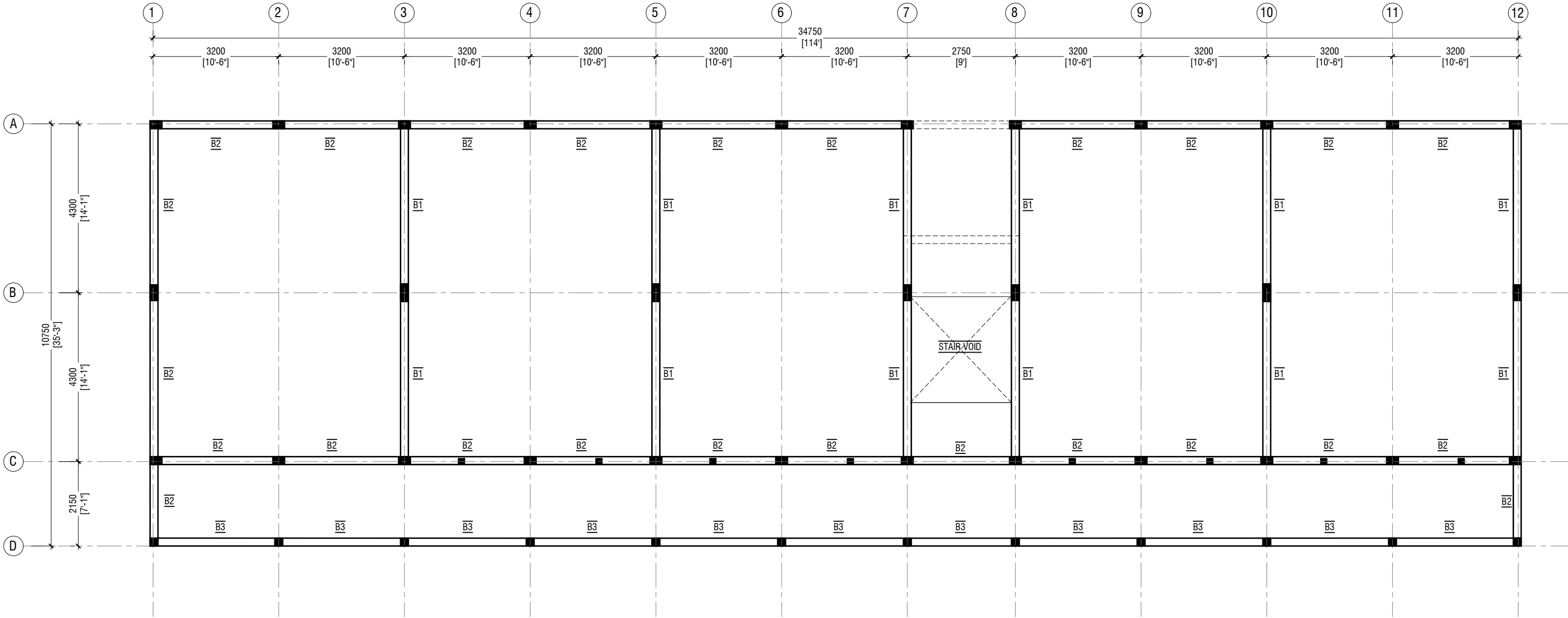
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

Rev no Date

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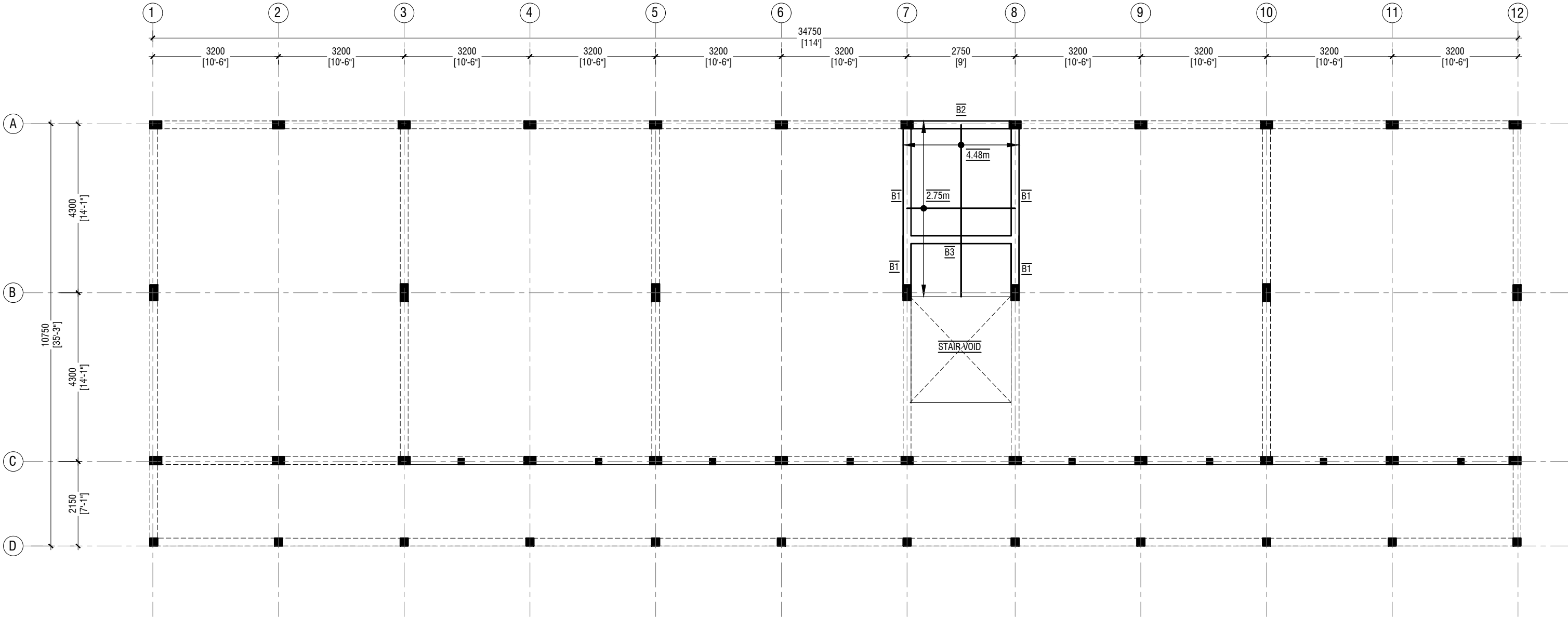
Title: Foundation Plan

Page: S-01/09



FIRST - SECOND FLOOR BEAM PLAN
SCALE 1:100

NOTE:	
COLUMN SIZES	
C1	: 200 x 450 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)	



STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN

SCALE 1:100
0 0.5 1 2 3 4 5

NOTE:

COLUMN SIZES	
C1	: 200 x 450 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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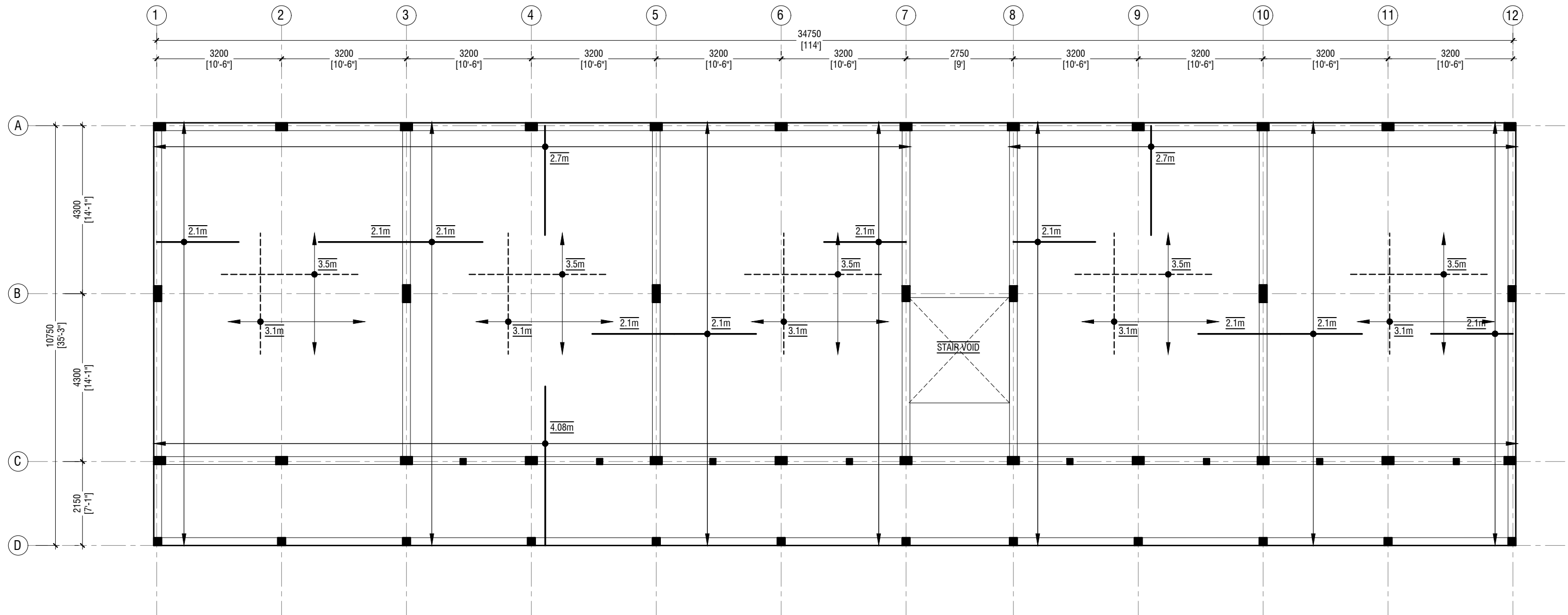
AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

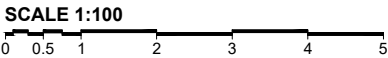
Rev no	Date
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Title: Store / Half Landing
Beam & Slab Rein. Plan

Page: S-03/09



FIRST - SECOND 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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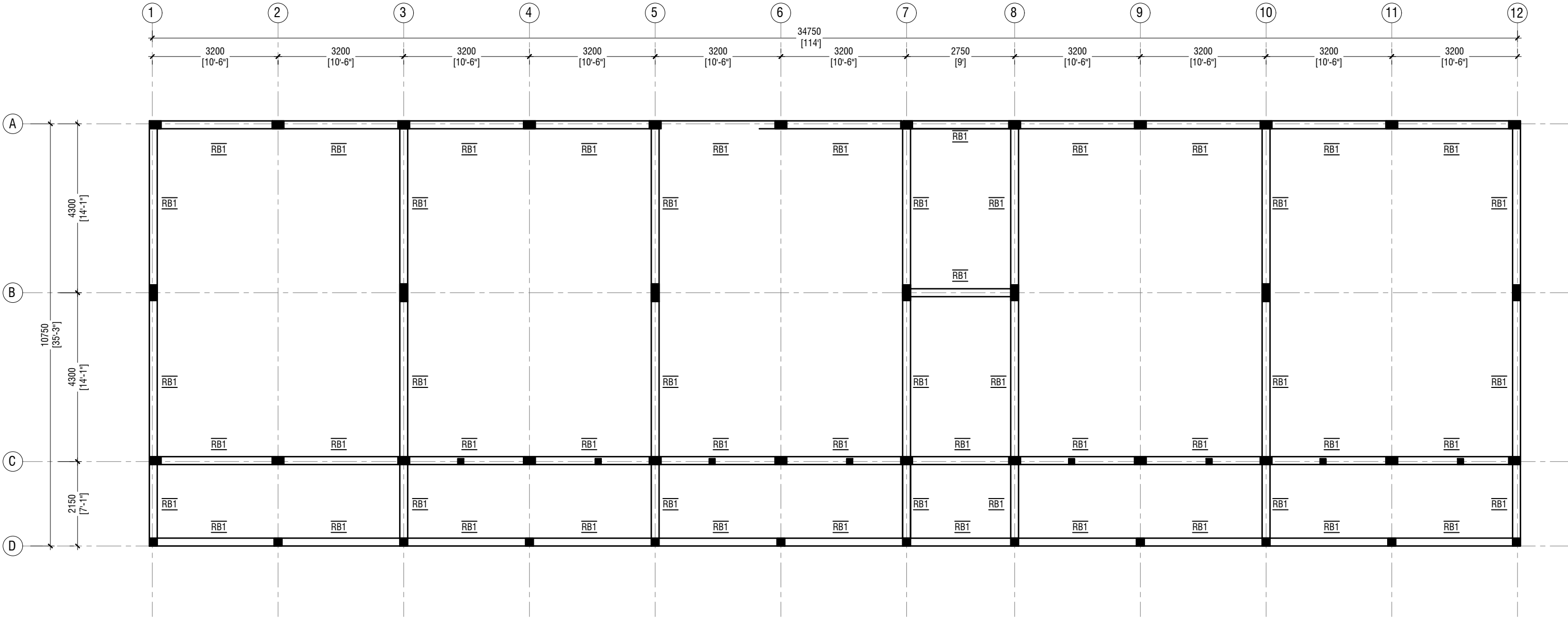
AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

Rev no	Date
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Title: First - Second Floor
Slab Rein. Plan

Page: S-04/09



ROOF BEAM PLAN

SCALE 1:100



NOTE:

COLUMN SIZES

C1	: 200 x 450 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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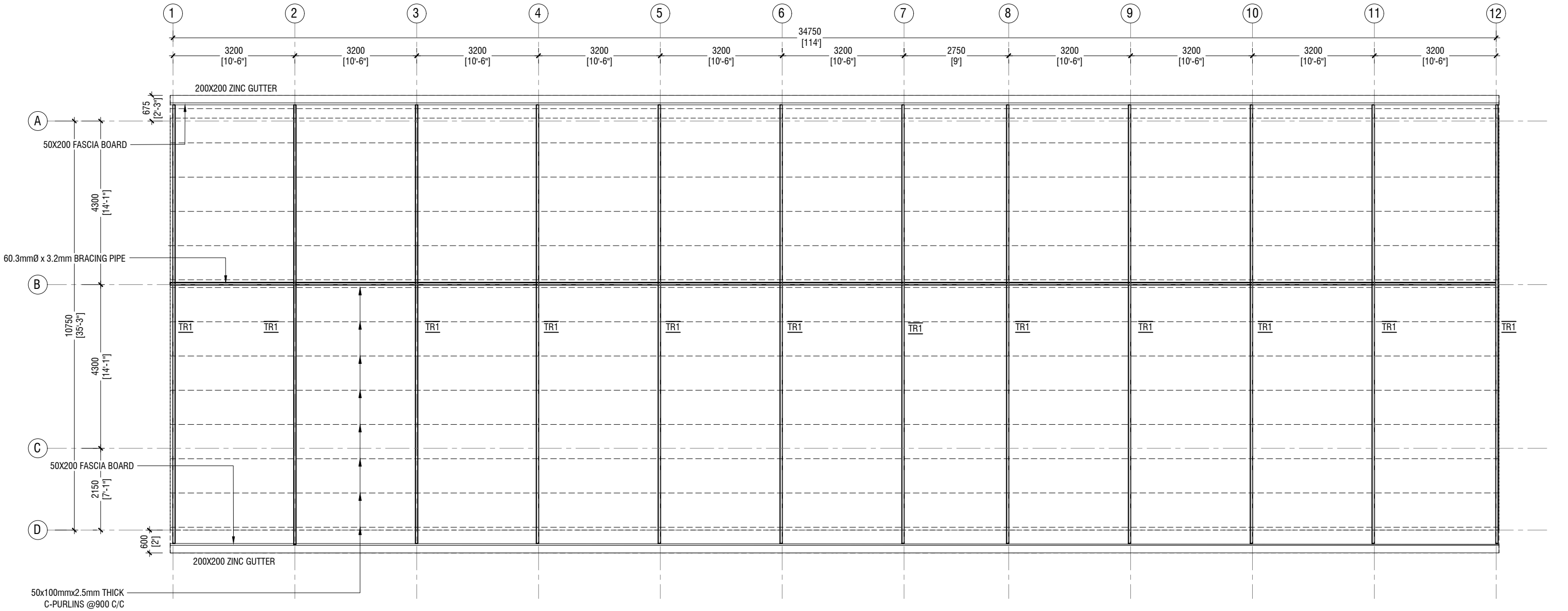
AA.Thoddoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Aishath Mohamed Rasheed
Services : Aishath Ahmed
Interior : -

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Title: Roof Beam Plan

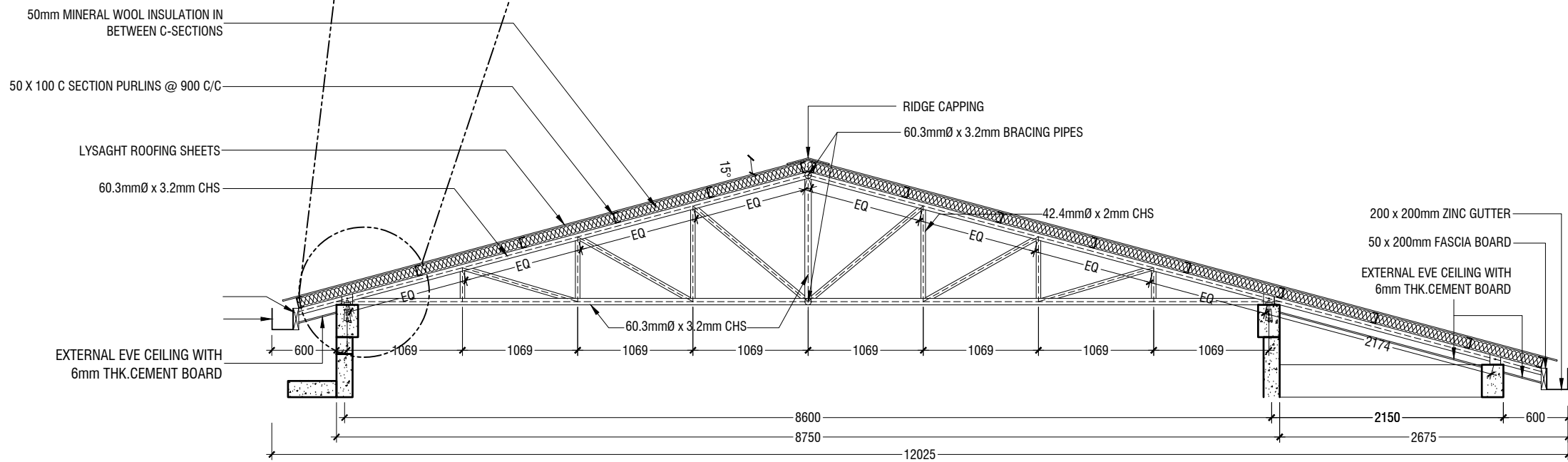
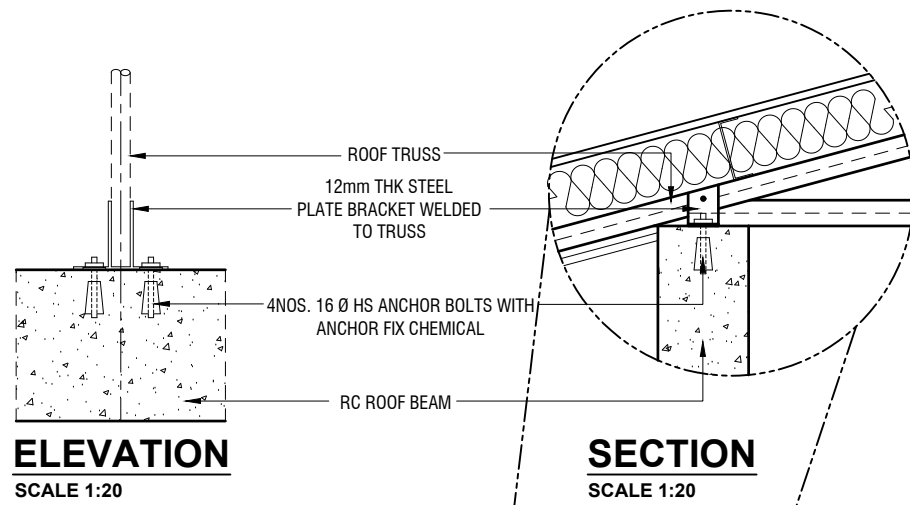
Page: S-05/09



ROOF TRUSS & FRAMING PLAN

SCALE 1:100





TRUSS TYPE TR1

SCALE 1:50

0 0.25 0.5 1 1.5 2 2.5



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Project Number: RI/2017/012
Date: May 2019
Architect : Razana Amir
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Title: Roof Truss Details

Page: S-07/09

	DIMENSION	REINFORCEMENT
F1	2300 x 2300 x 400	T12@100 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2100 x 2100 x 400	T12@125 C/C B/W (B) & T12@200 C/C B/W (T)
F3	1800 x 1800 x 350	T12@150 C/C B/W (B)
F4	1700 x 1700 x 350	T12@150 C/C B/W (B)
F5	1200 x 1200 x 350	T12@200 C/C B/W (B)
F6	800 x 800 x 350	T12@200 C/C B/W (B)

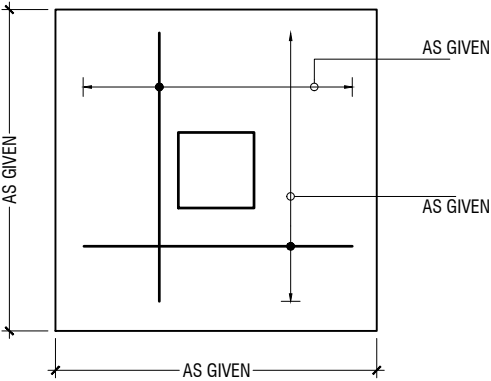
FOUNDATION DEPTH = 1200mm

NOTE:-

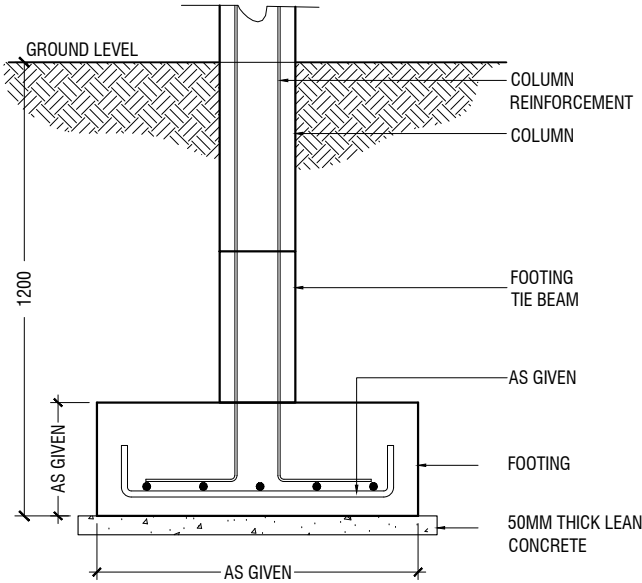
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
COVER TO SLAB = 30mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

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

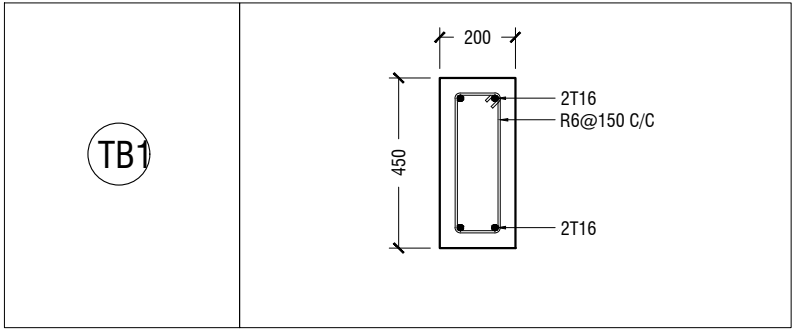
FOUNDATION PADS



PLAN



SECTION



FOUNDATION DETAILS

	GROUND & 1ST FLOOR
C1	
C2	
C3	
C4	

COLUMN DETAIL

STRUCTURAL DETAILS - 1

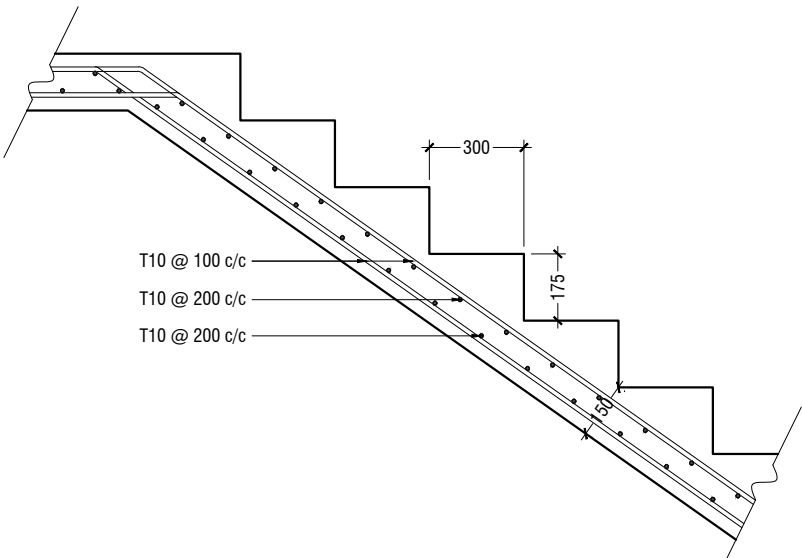
SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1

	MIDSPAN	SUPPORT
B1		
B2		
B3		
RB1		

BEAM DETAIL

LB1	
LB2	

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

