

Proposed Office Building
GDh.Gadhoo School
(02 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS
Client: Ministry of Education

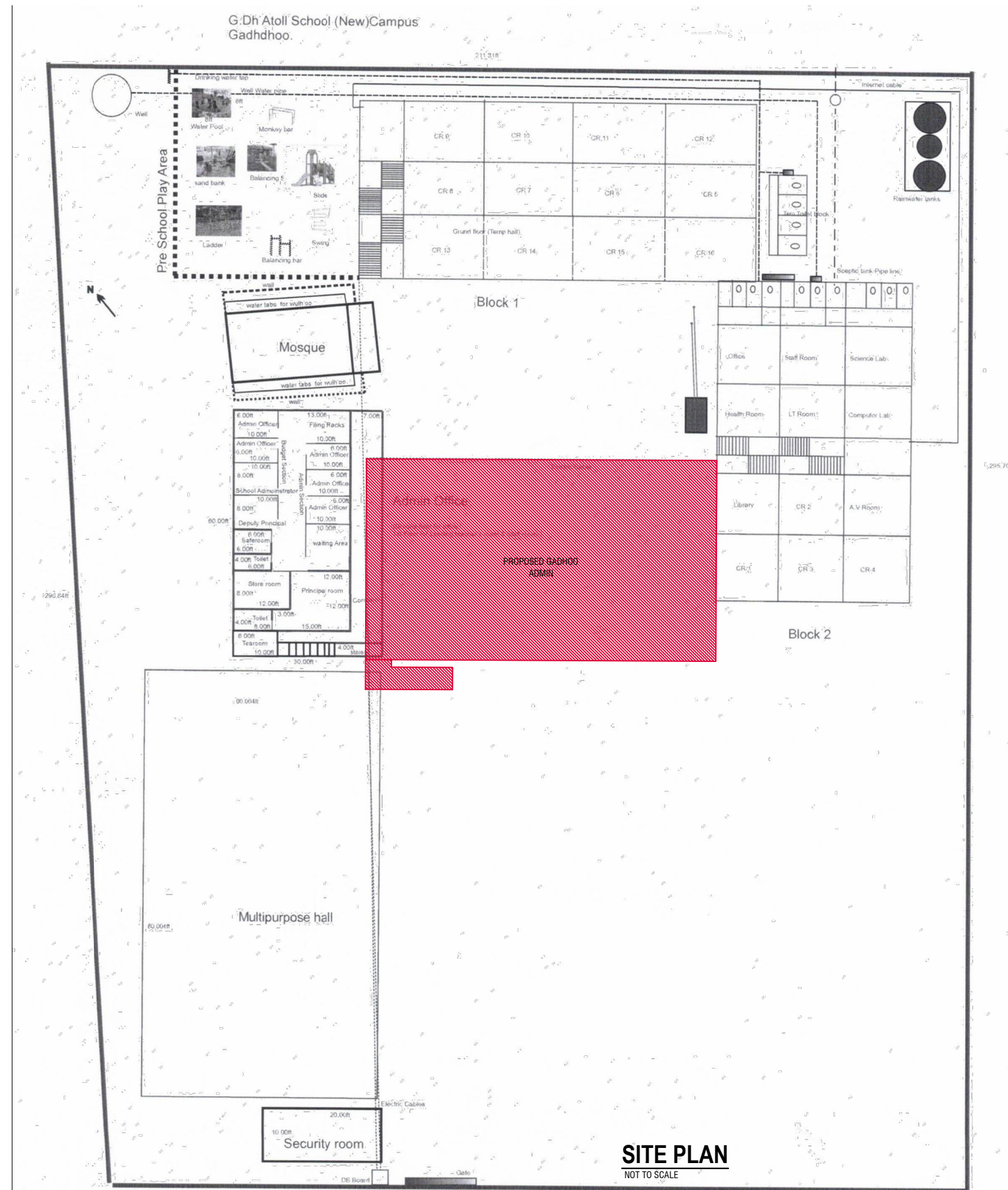


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3rd floor, H. Azum, Ameeemaguu, Male'

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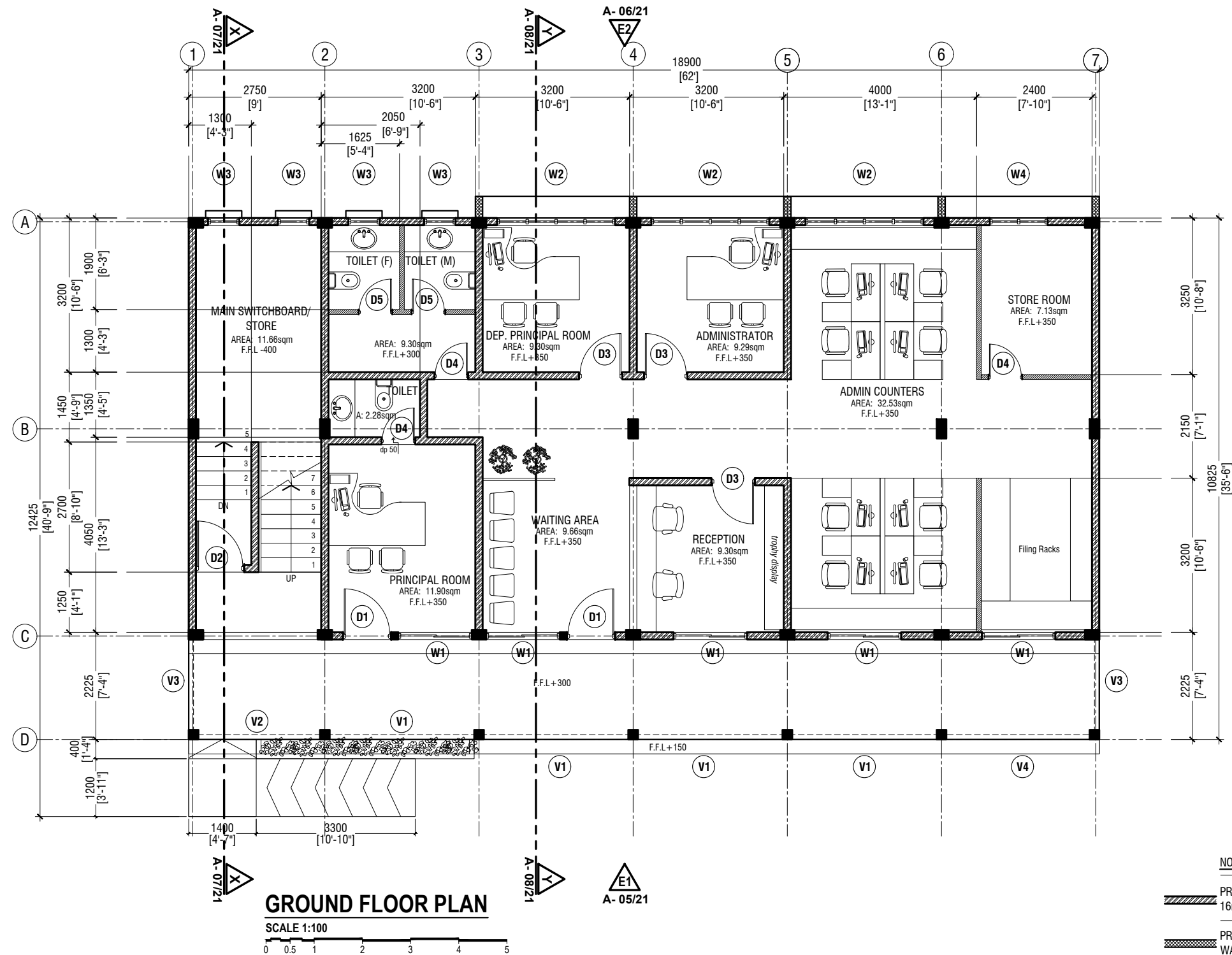
GDh.Gadhoo School - Office Building (02 Storey)
Client: Ministry of Education

Project Number: RI/2117/012
Date: October 2019
Architect : Razana Amir
Engineer : Mohamed Haikal Ibrahim
Drawn by : Razana Amir/Nick P. Dela Cruz
Services : Aishath Ahmed
Interior : -

Rev no	Date
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Title: Site Plan

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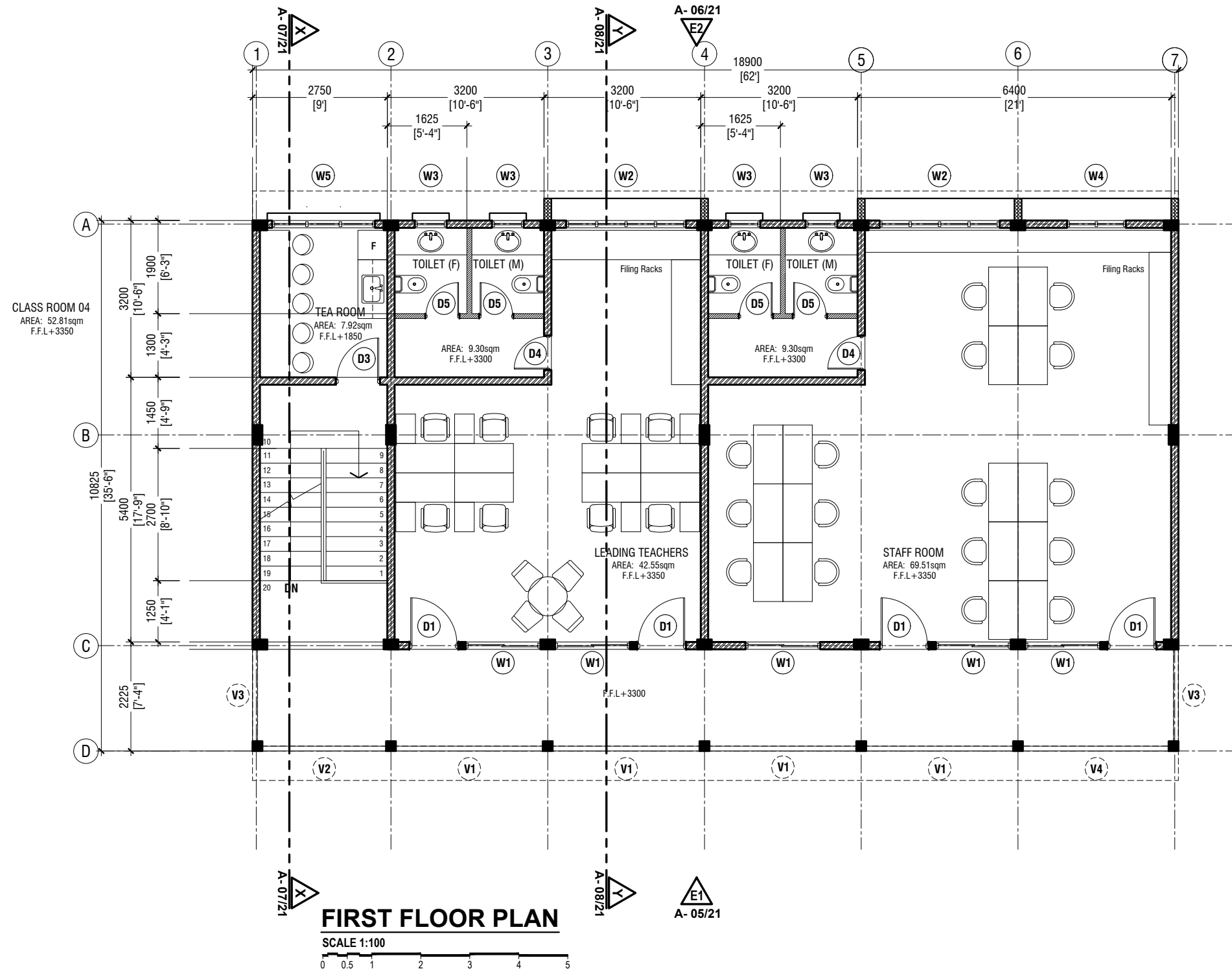
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Title: Ground Floor Plan

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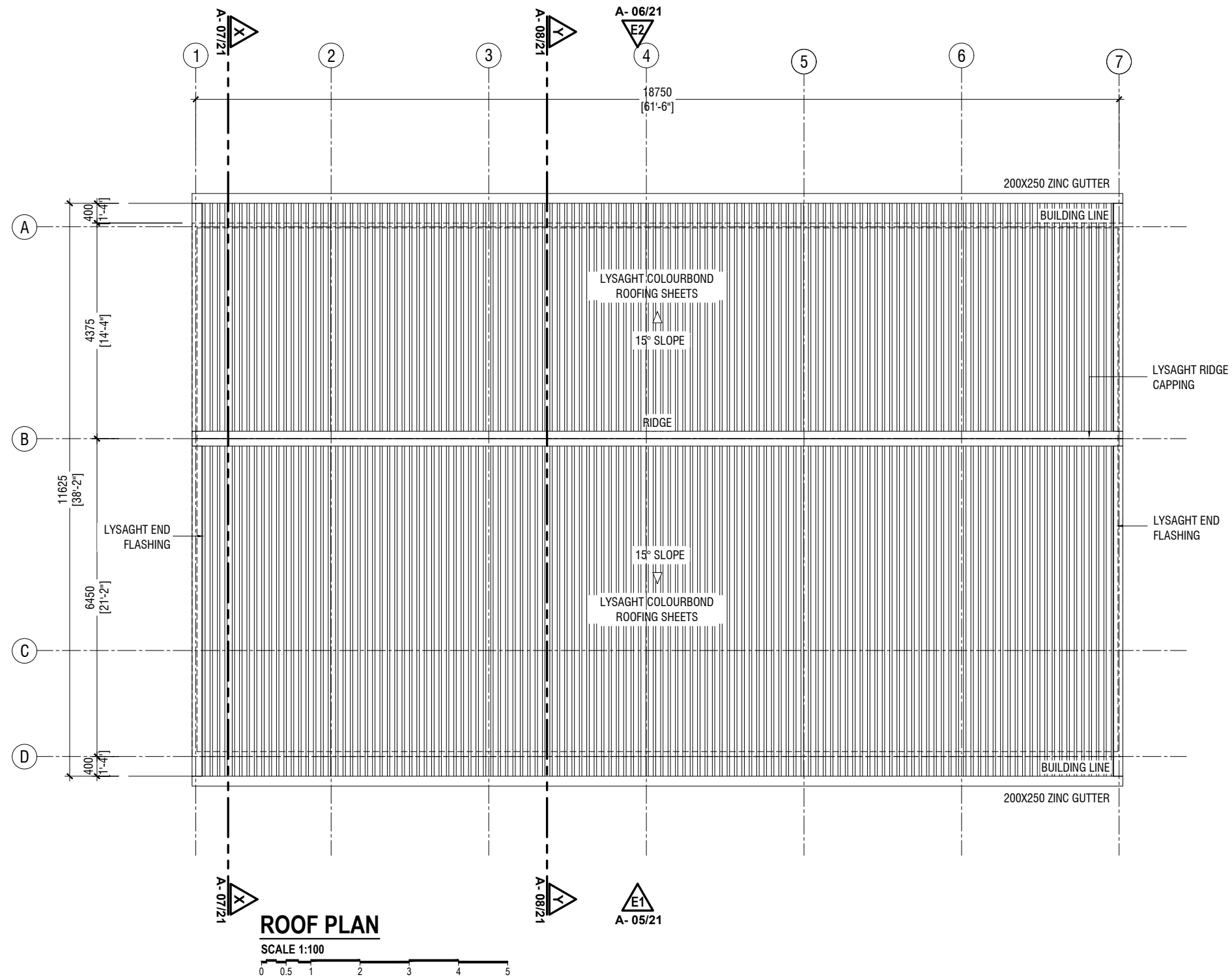
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Title: First Floor Plan

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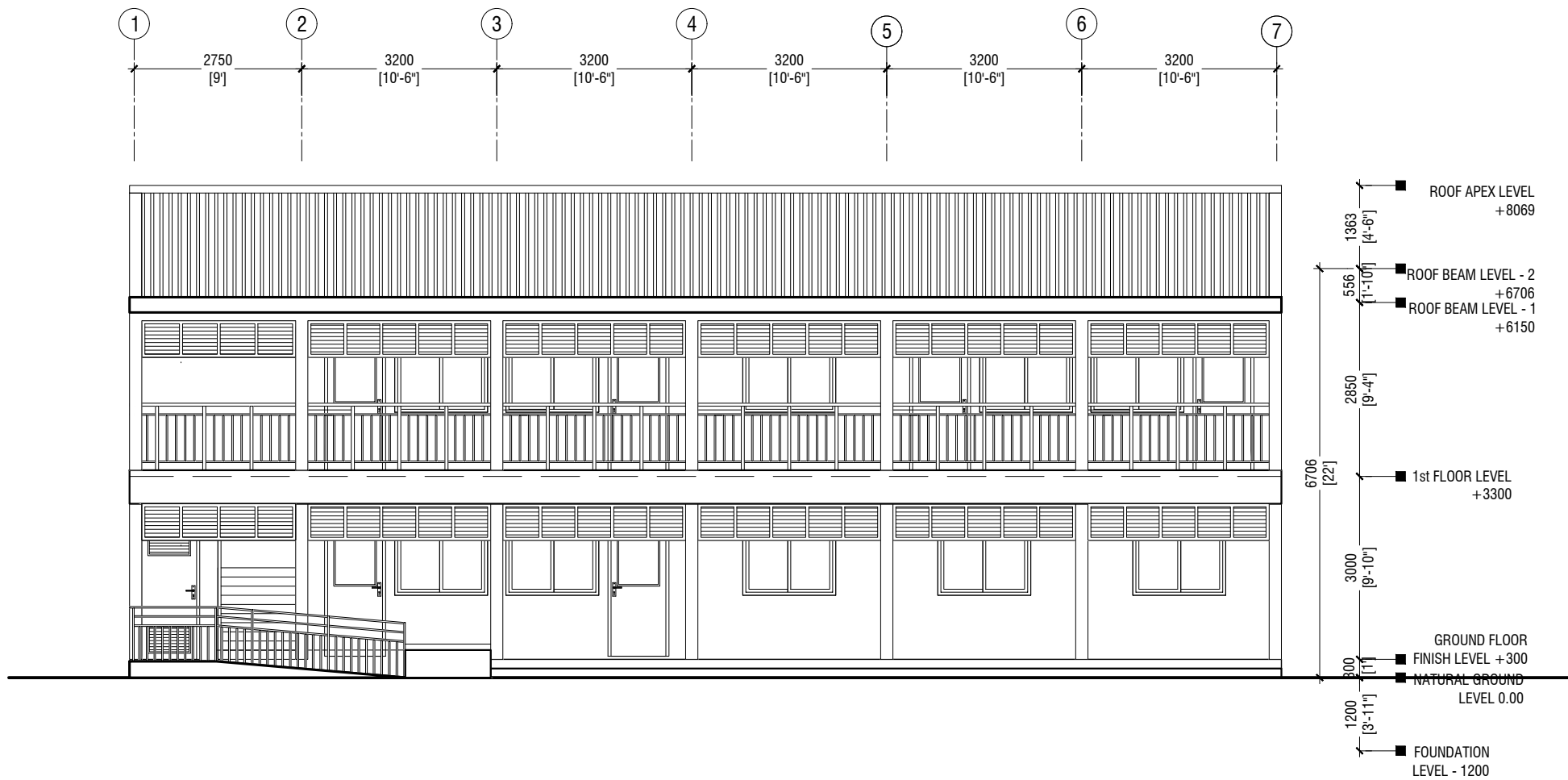
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Title: Roof Plan

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ELEVATION E1

SCALE 1:100



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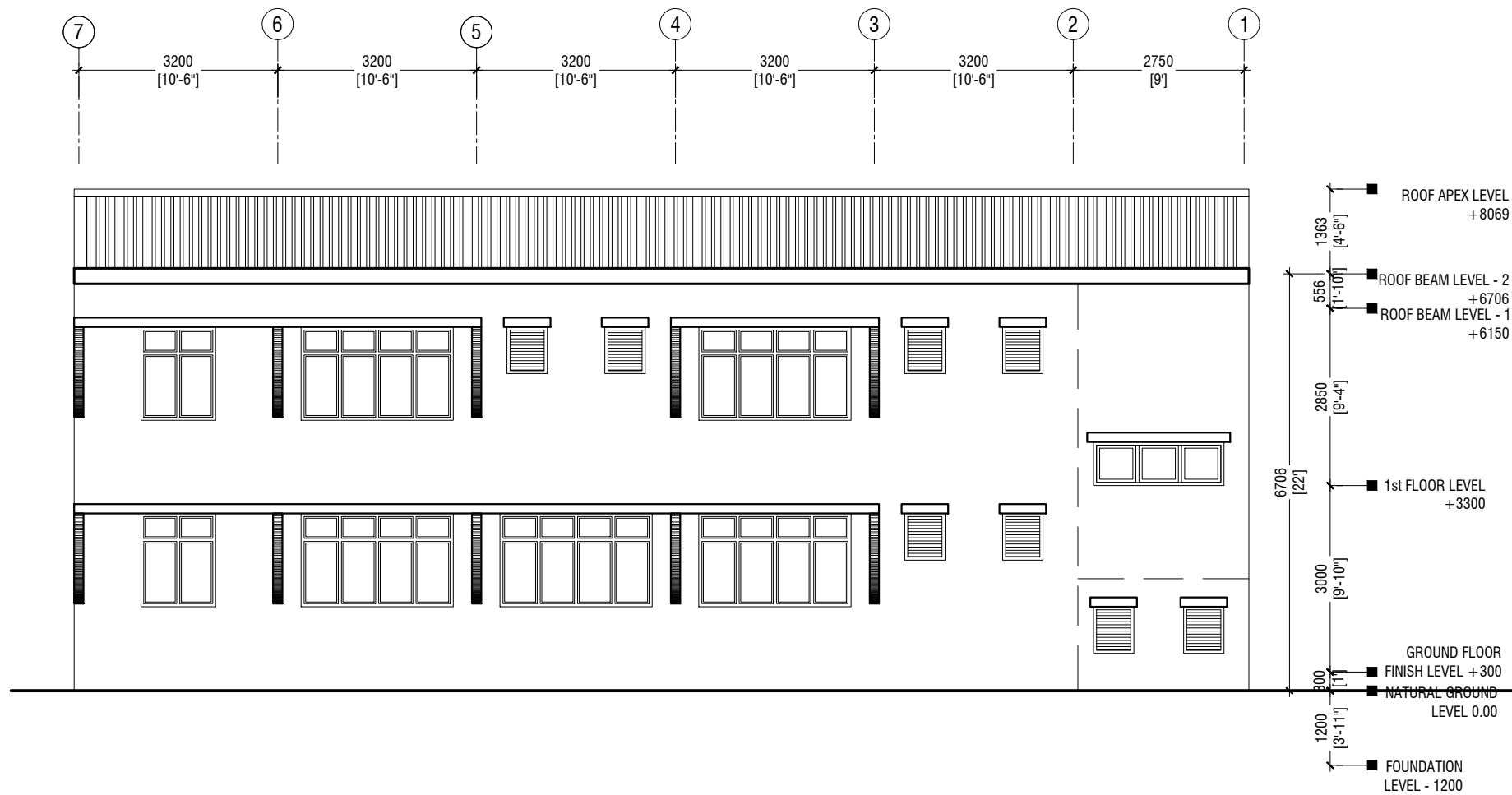
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Services : Aishath Ahmed
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Title: Elevation E1

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ELEVATION E2

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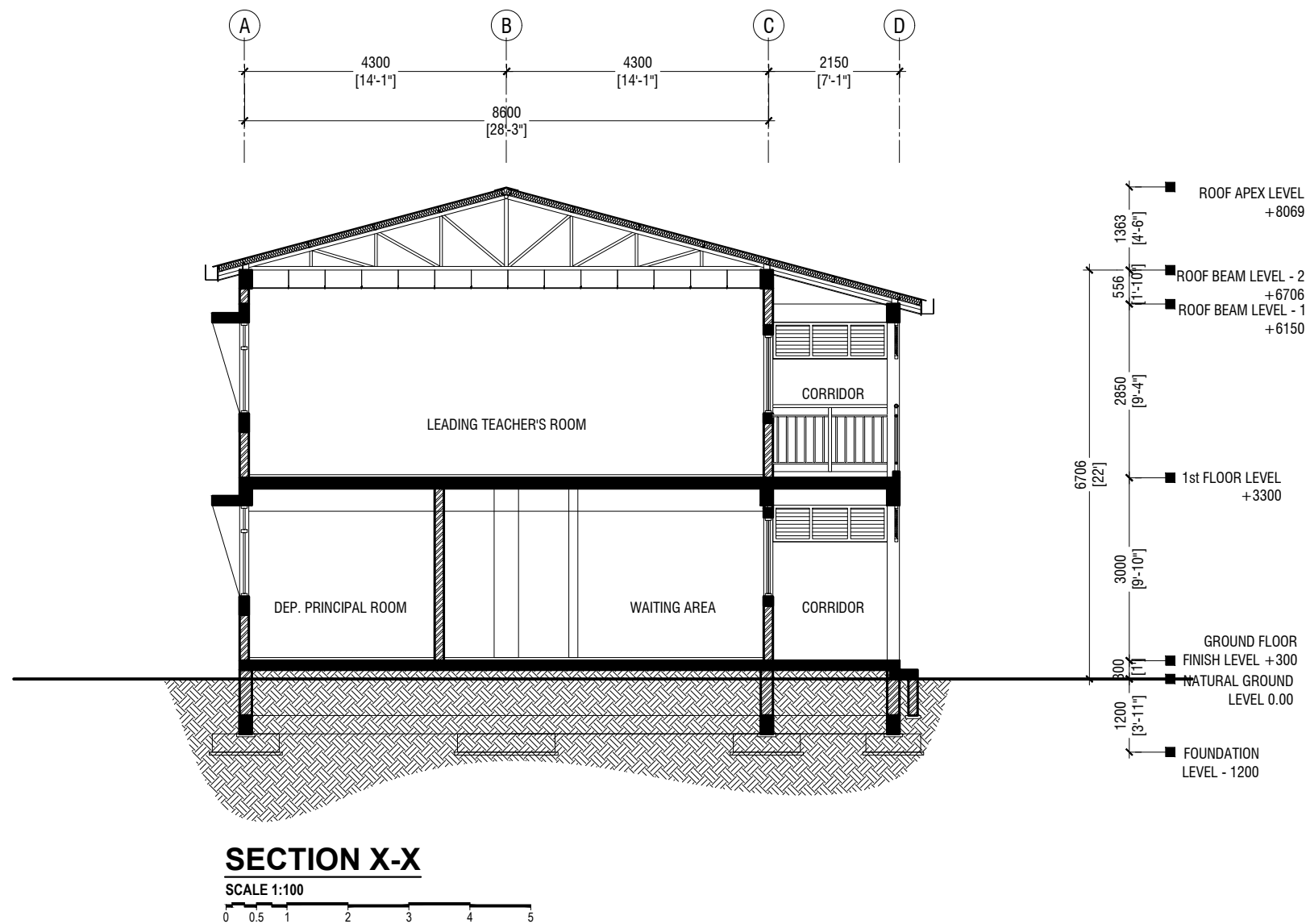
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Title: Elevation E2

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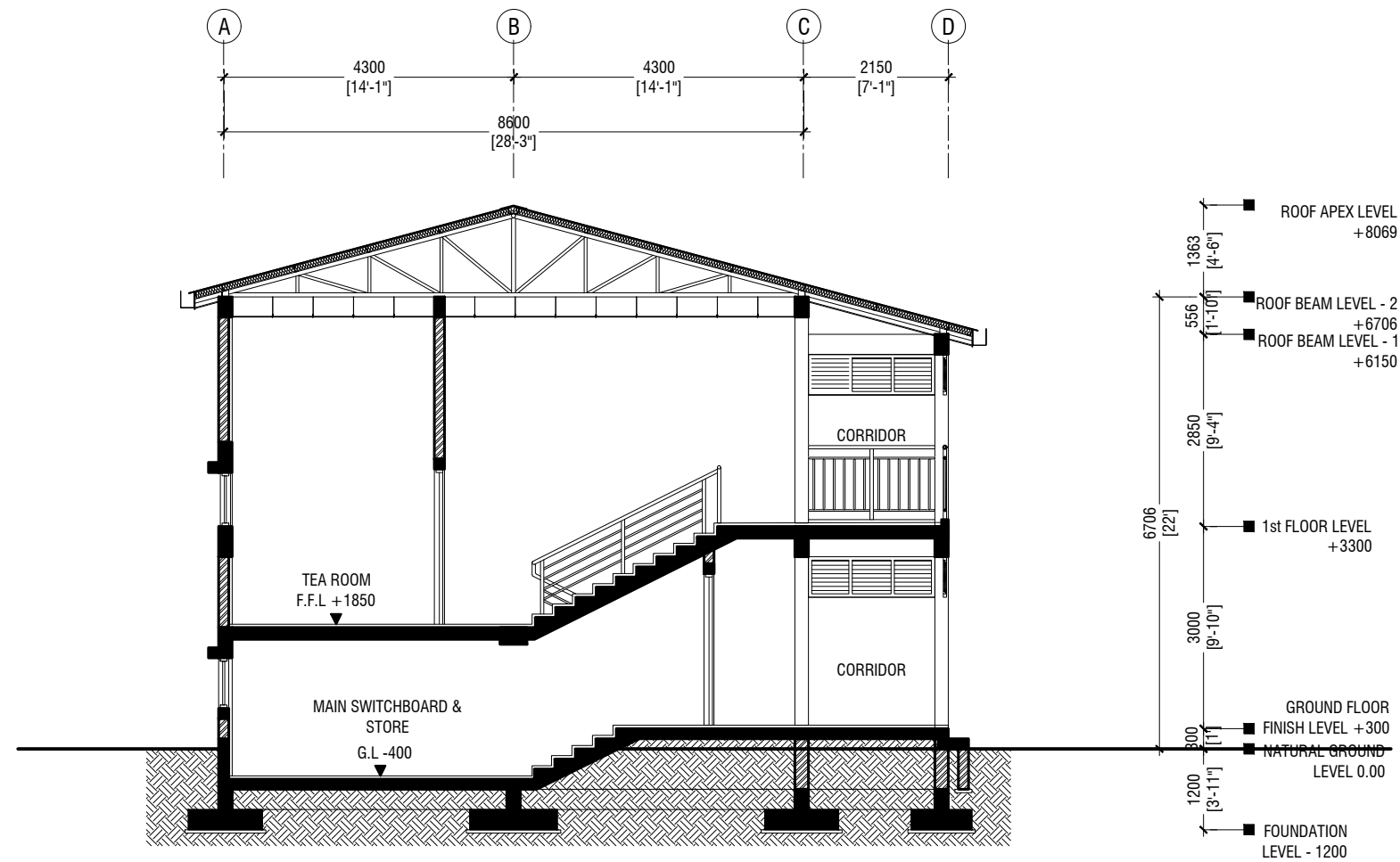
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Title: Section X-X

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SECTION Y-Y

SCALE 1:100



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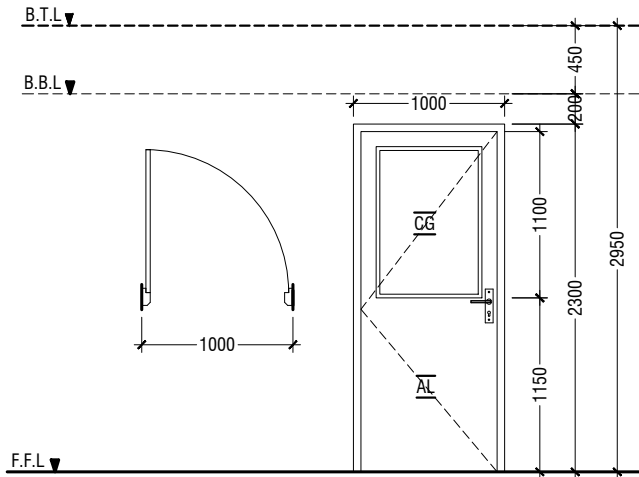
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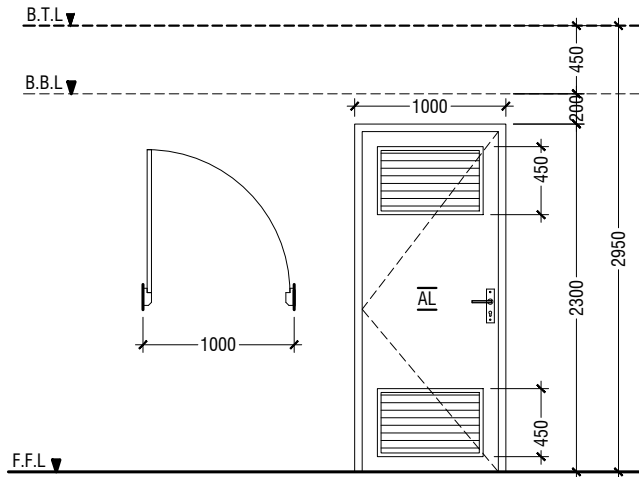
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Title: Section Y-Y

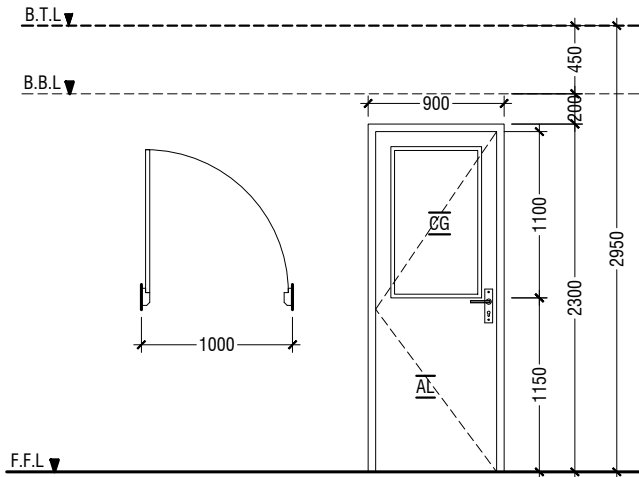
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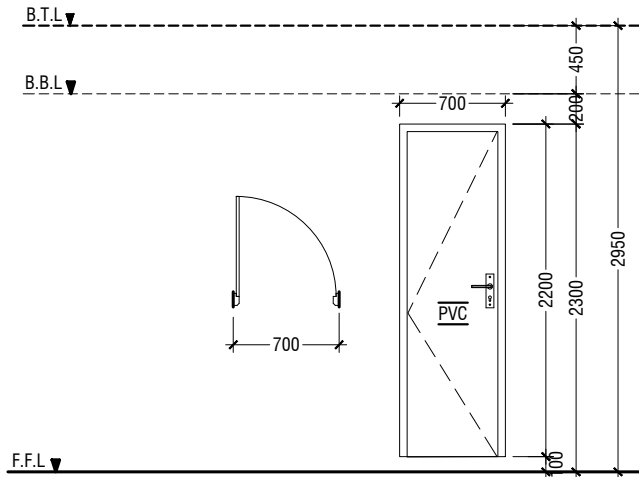
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	DEP. PRINCIPAL, WAITING, STAFF, RECEPTION AND LEADING TEACHER ROOM
QUANTITY	06 NOS
OPEN AREA	2.03 sqm



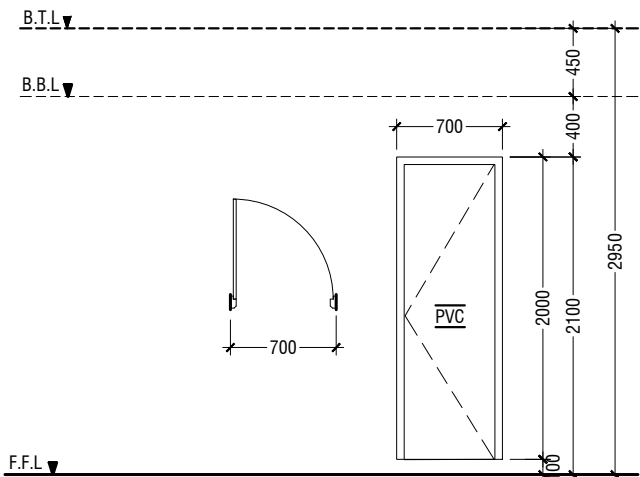
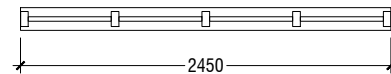
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	MAIN SWITCH BOARD STORE
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



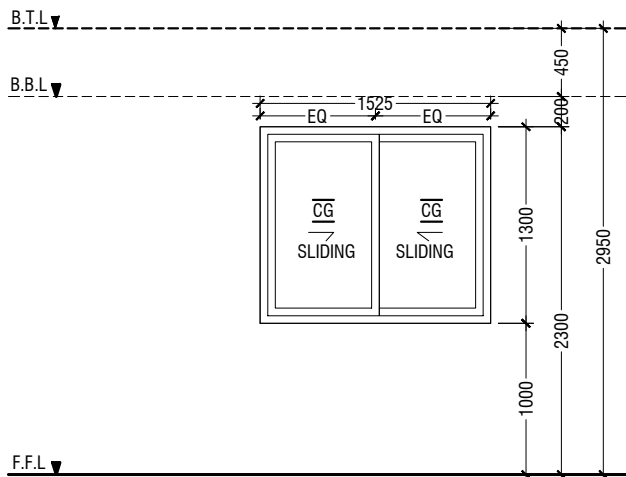
D3	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	PRINCIPAL, ADMIN, RECEPTION & HALF LANDING STORE ROOM
QUANTITY	04 NOS
OPEN AREA	1.80 sqm



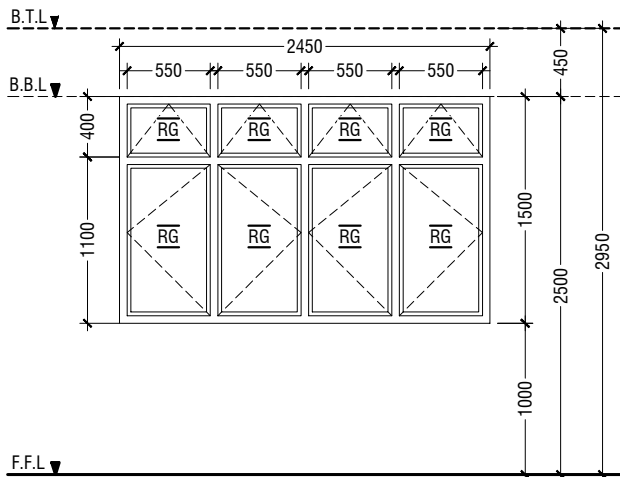
D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & TOILET
QUANTITY	05 NOS
OPEN AREA	1.29 SQM



D5	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	06 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	PRINCIPAL, WAITING, STAFF, RECEPTION, ADMIN AND LEADING TEACHER ROOM
QUANTITY	10 NOS
OPEN AREA	0.89 sqm



W2	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	DEP. PRINCIPAL, ADMIN, STAFF, AND LEADING TEACHER ROOM
QUANTITY	05 NOS
OPEN AREA	2.97 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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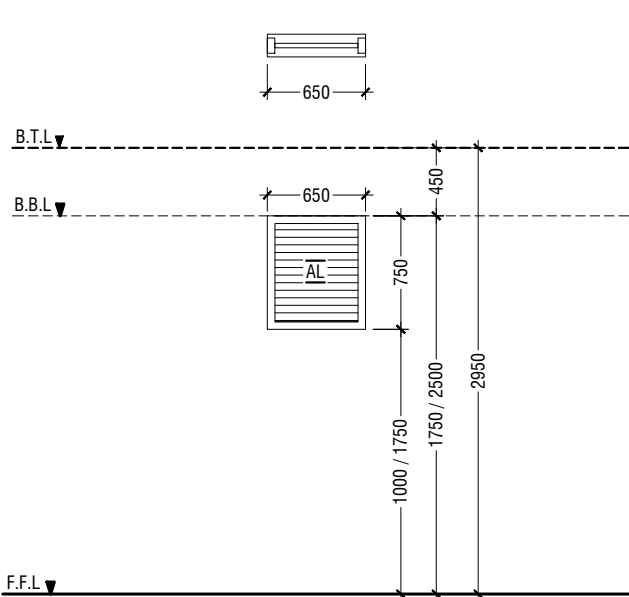
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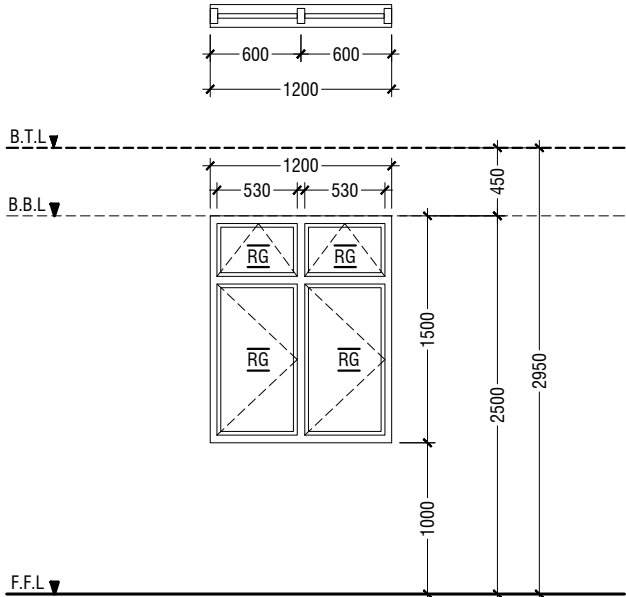
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Title: Door & Window
Schedule - 1

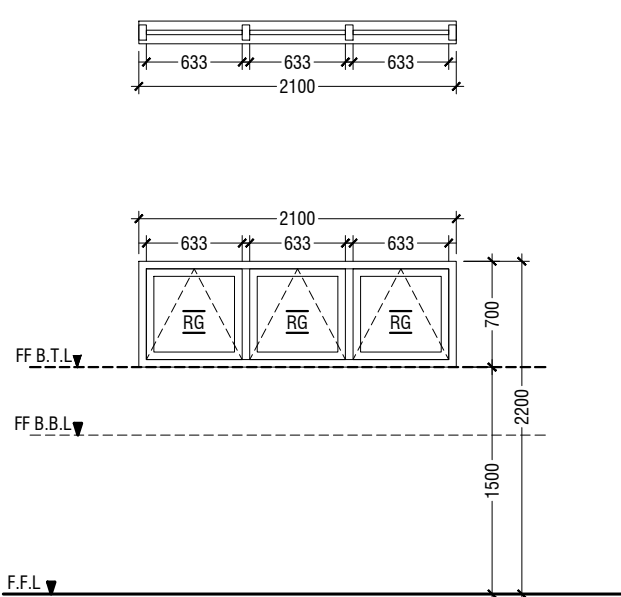
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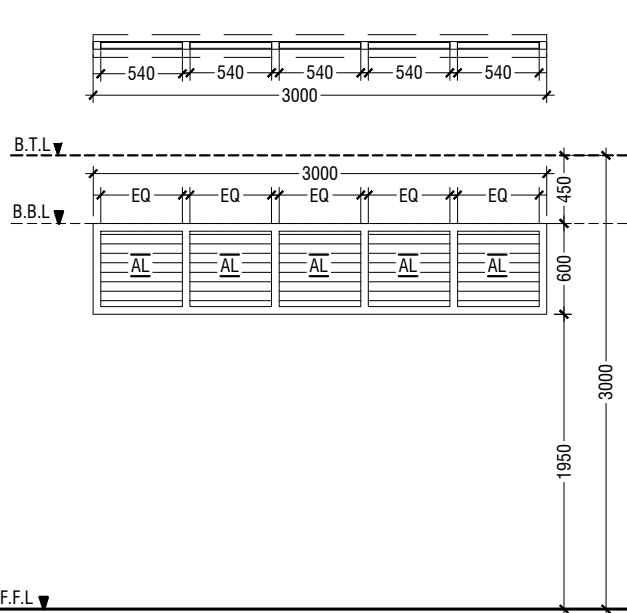
W3	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	08 NOS
OPEN AREA	0.36 SQM



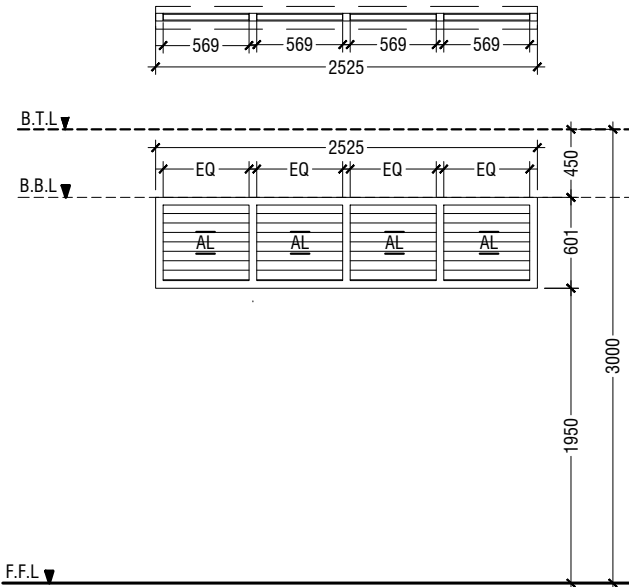
W4	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	STORE, AND STAFF ROOM
QUANTITY	02 NOS
OPEN AREA	1.43 sqm



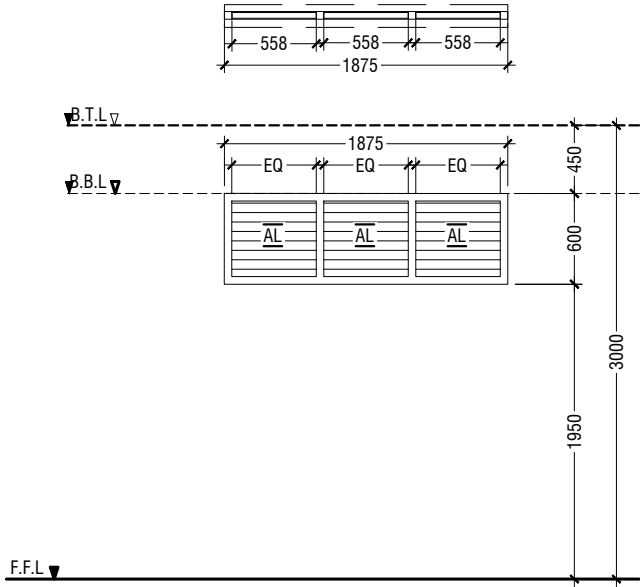
W5	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	TEA ROM
QUANTITY	01 NOS
OPEN AREA	1.14 sqm



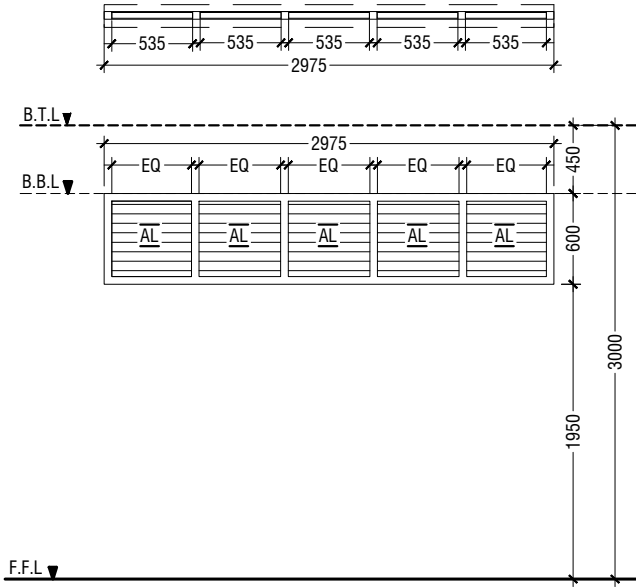
V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	08 NOS
OPEN AREA	1.35 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	02 NOS
OPEN AREA	1.15 SQM



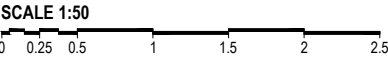
V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	04 NOS
OPEN AREA	0.84 SQM



V4	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	02 NOS
OPEN AREA	1.31 SQM

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

NOTE:-
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DOOR & WINDOW SCHEDULE - 2



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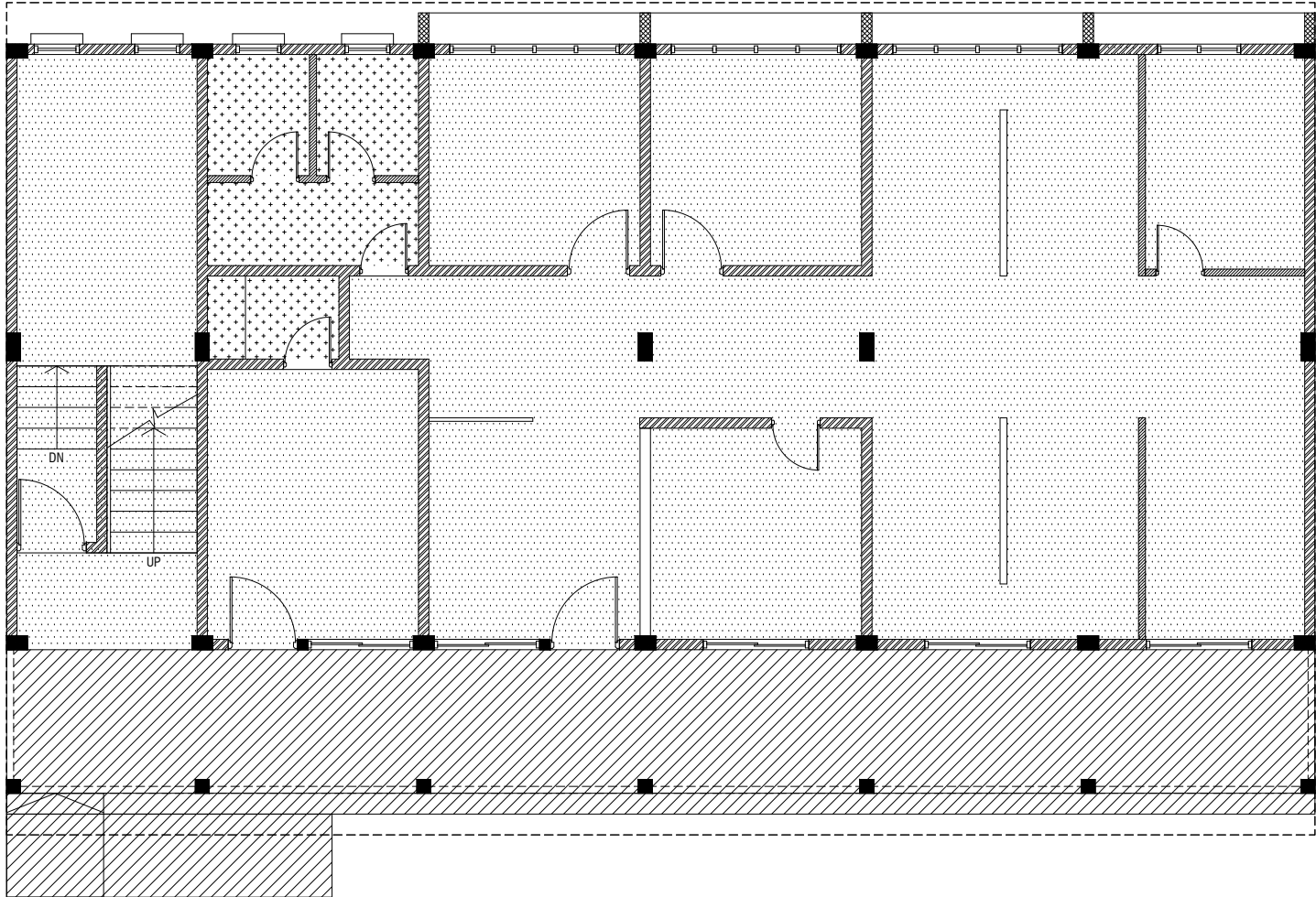
Title: Door & Window
Schedule - 2

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SCHEDULE OF VENTILATION FOR GDh.Gadhoo 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 Main switchboard /store	11.66		Mechanical Ventilation		
2 Toilet	9.30		Mechanical Ventilation		
3 Dep.Principle Room	9.30	W2	0.93	2.97	31.94%
4 Administrator Room	9.29	W2	0.93	2.97	31.97%
5 Tea Room	7.13	W4	0.71	1.14	15.99%
6 Admin Counters	32.53	W1 & W2	3.25	3.80	11.68%
7 Reception & Waiting Area	18.96	D1 & 2W1	1.90	3.69	19.46%
8 Principle Room	11.9	D1 & W1	1.19	2.86	24.03%
9 Principle Room's Toilet	2.28		Mechanical Ventilation		
<u>First Floor</u>					
1 Tea Room	7.92	W4	0.79	1.43	18.06%
2 Toilets	9.30		Mechanical Ventilation		
3 Staff Room	69.51	2D1, 3W1, W2 & W4	6.95	10.95	15.75%
4 Leading Teacher's Room	42.55	2D1, 2W1 & W2	4.26	8.69	20.42%

VENTILATION SCHEDULE


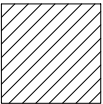
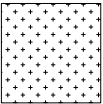


**GROUND FLOOR
FLOOR FINISHES PLAN**

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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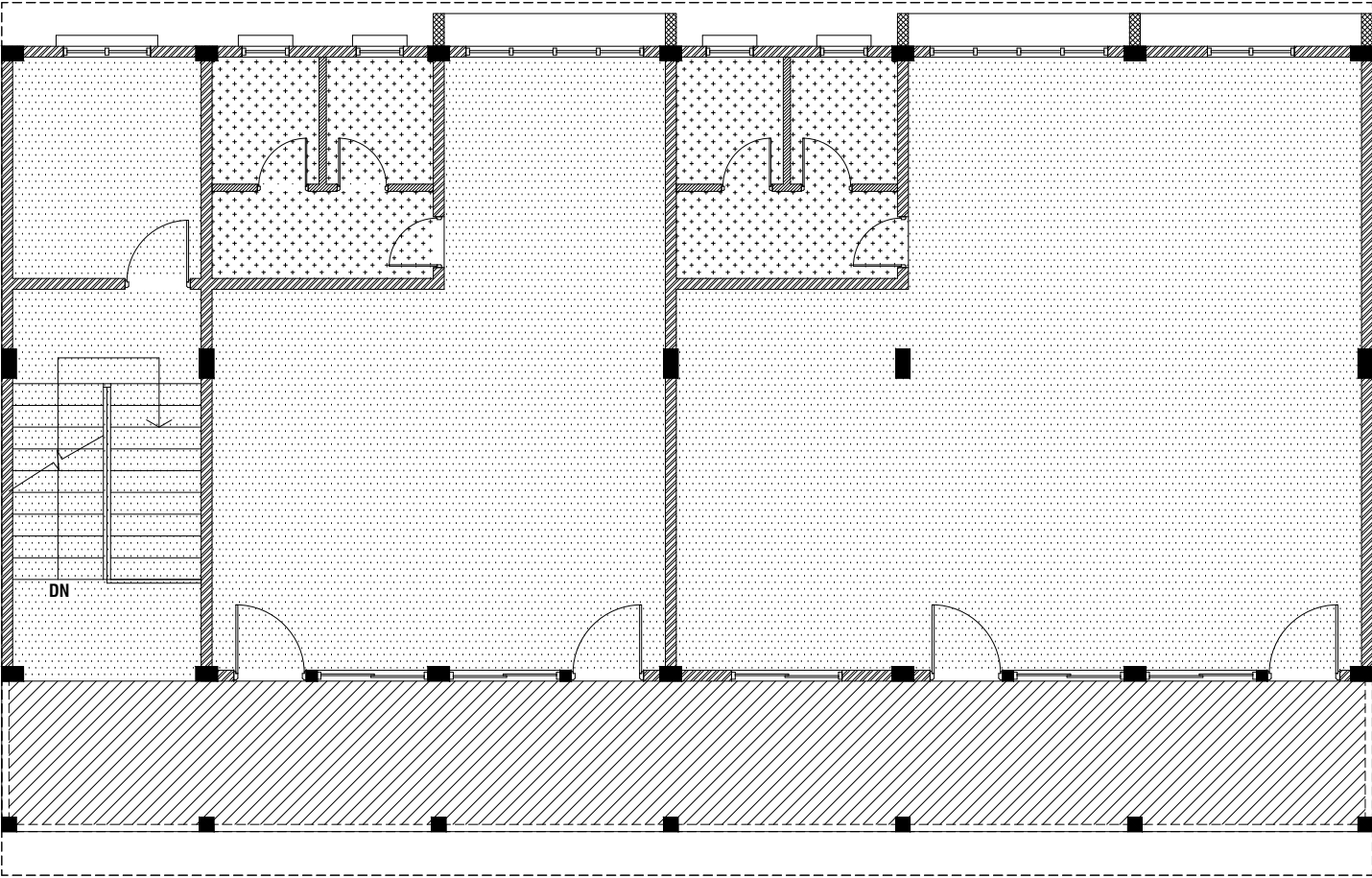
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Title: Ground Floor
Floor Finishes Plan

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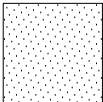
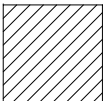
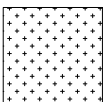


FIRST FLOOR
FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

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	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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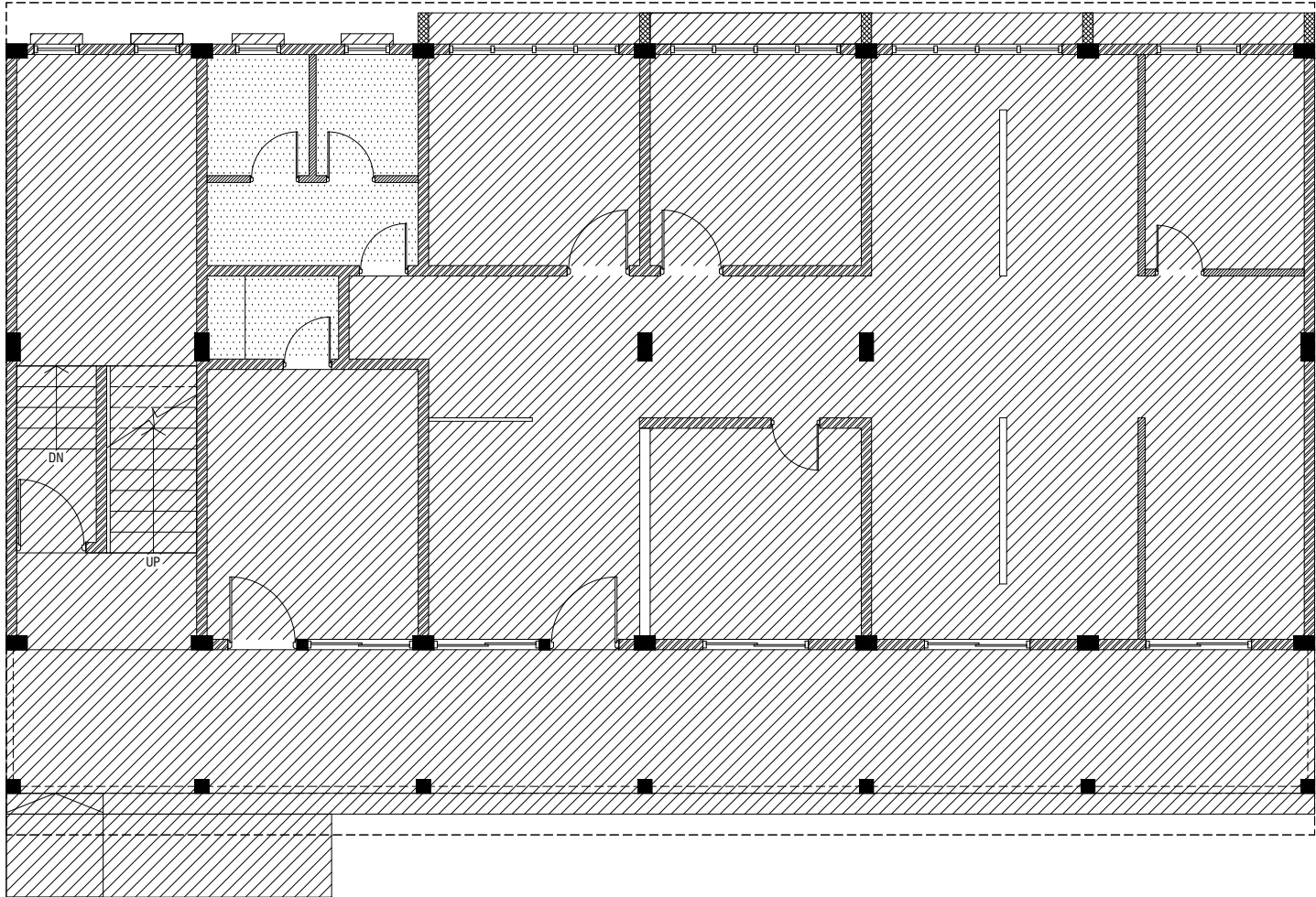
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Client: Ministry of Education

Project Number: RI/2117/012
Date: October 2019
Architect : Razana Amir
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Drawn by : Razana Amir/Nick P. Dela Cruz
Services : Aishath Ahmed
Interior : -

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Title: First Floor
Floor Finishes Plan

Page: A-13/21

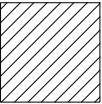



**GROUND FLOOR
REFLECTED CEILING PLAN**

SCALE 1:100



LEGEND

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



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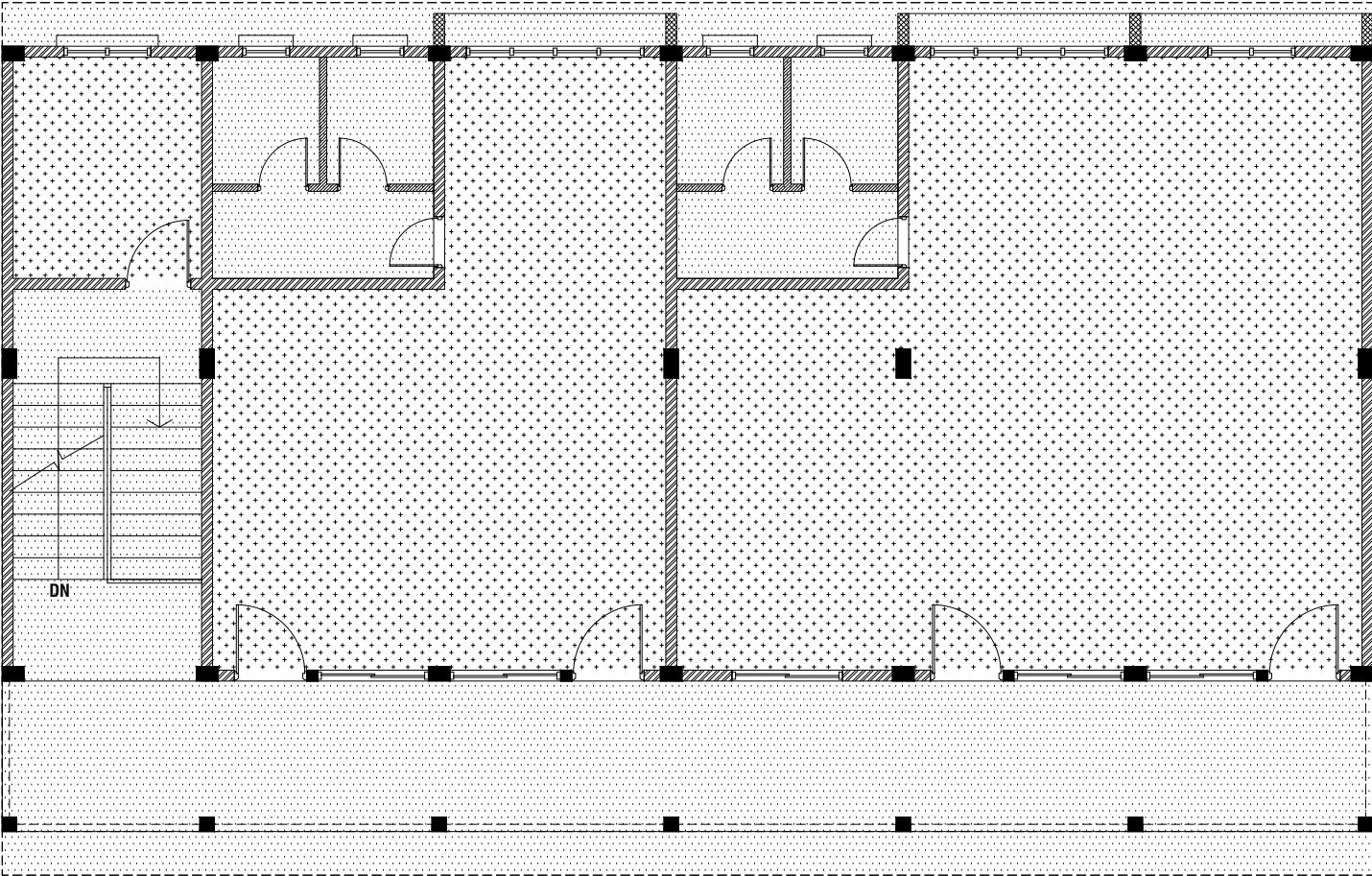
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Title: Ground Floor
Reflected Ceiling Plan

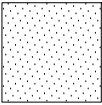

Page: A-14/21



**FIRST FLOOR
REFLECTED CEILING PLAN**

SCALE 1:100
0 0.5 1 2 3 4 5

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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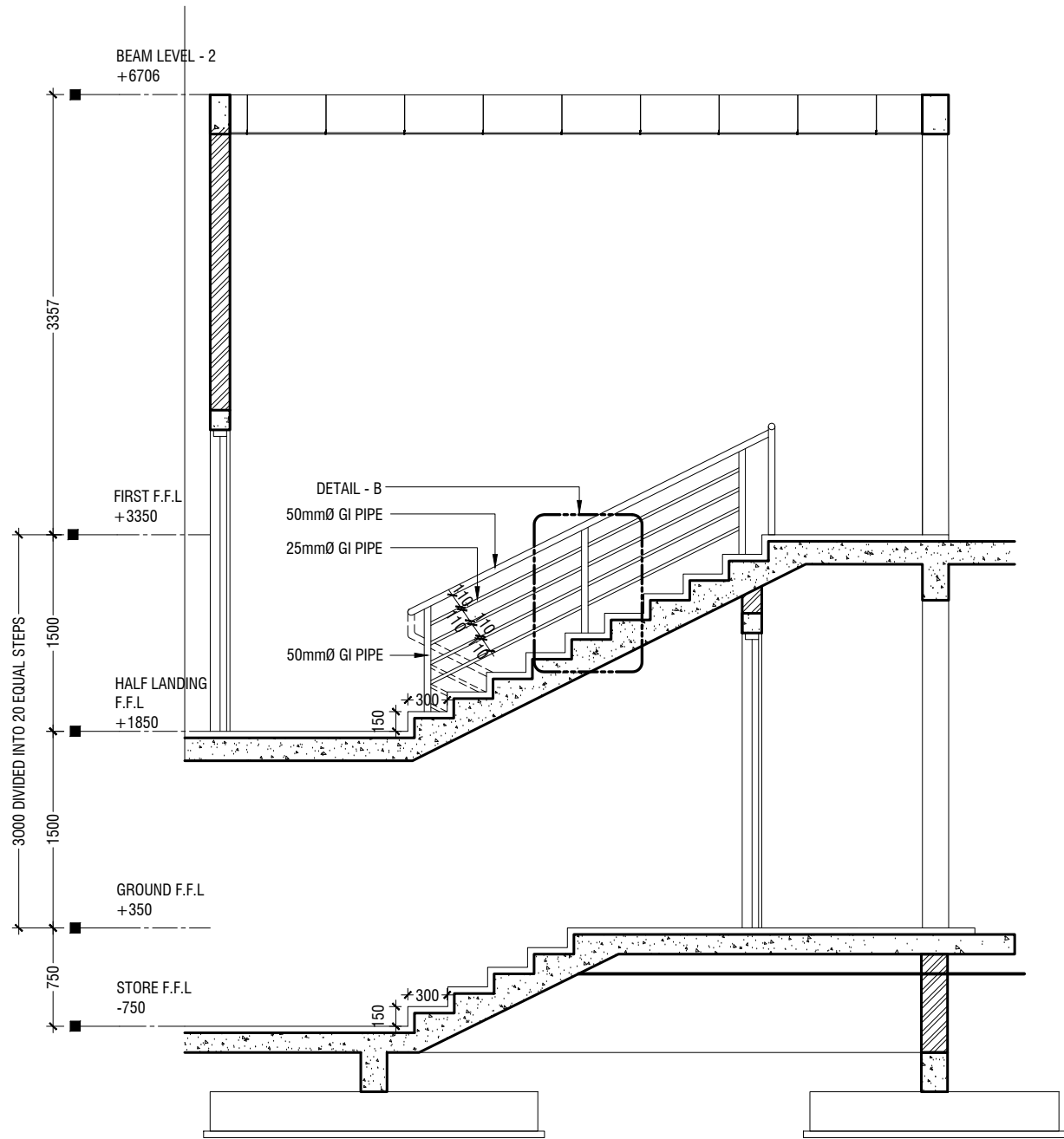
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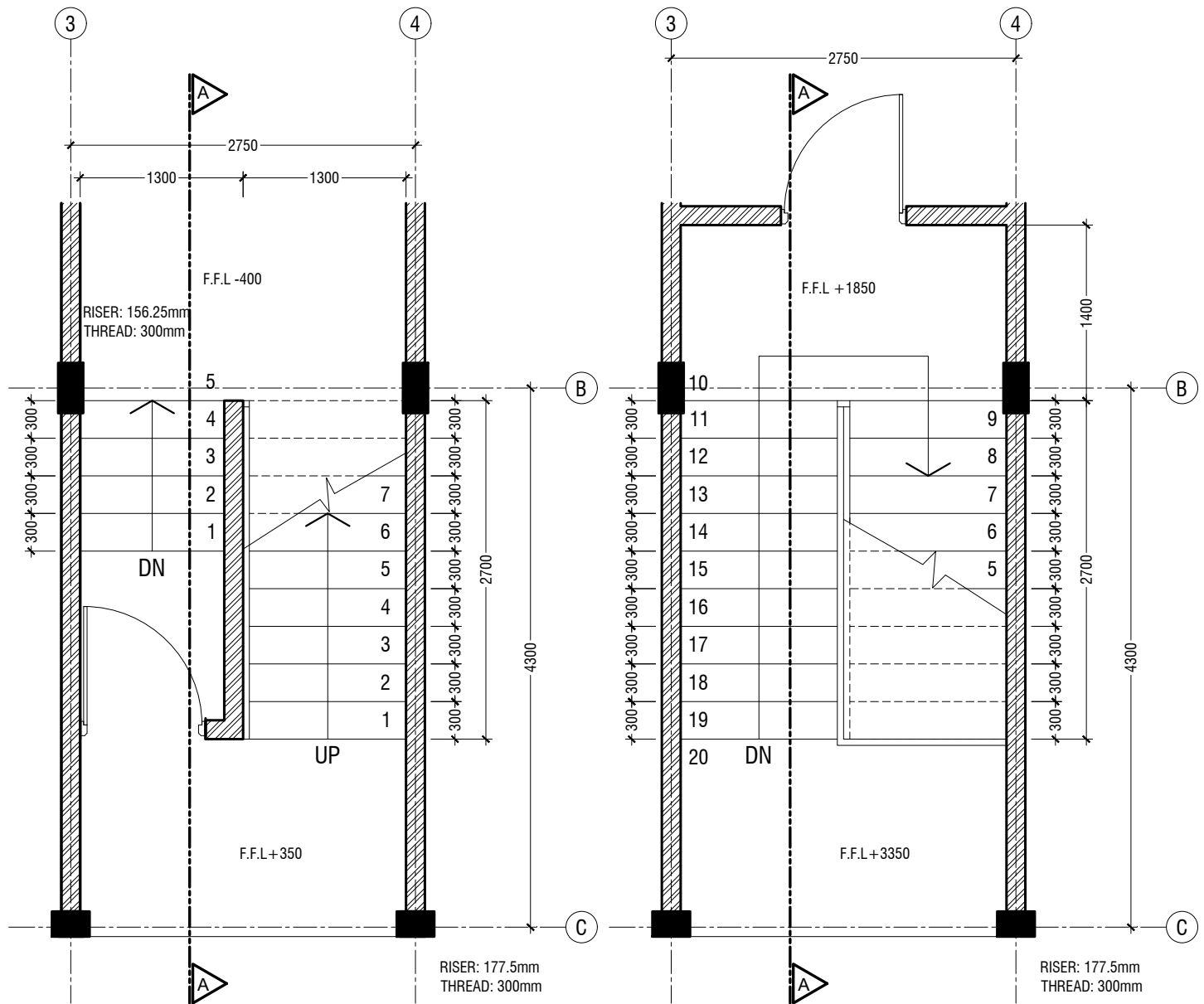
Title: First Floor
Reflected Ceiling Plan

Page: A-15/21



SECTION A - A

SCALE 1:50



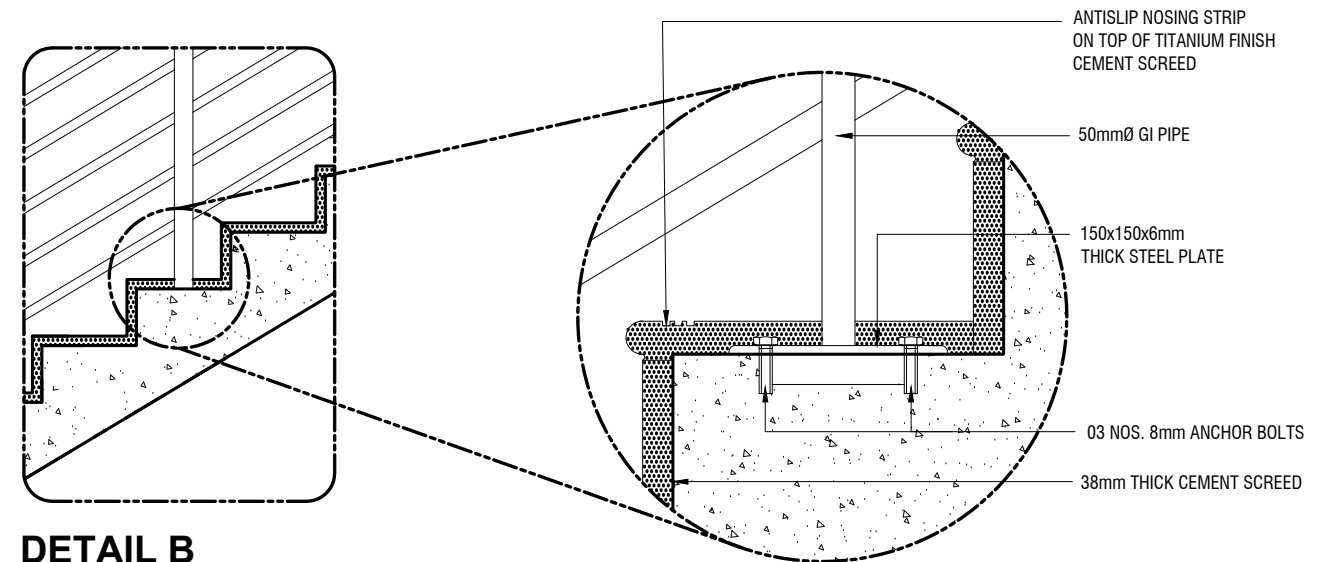
GROUND FLOOR STAIRCASE PLAN

SCALE 1:50



TYPICAL STAIRCASE PLAN

SCALE 1:50



DETAIL B

SCALE 1:20



STAIRCASE DETAILS

SCALE 1:20



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Title: Staircase Details

Page: A-16/21

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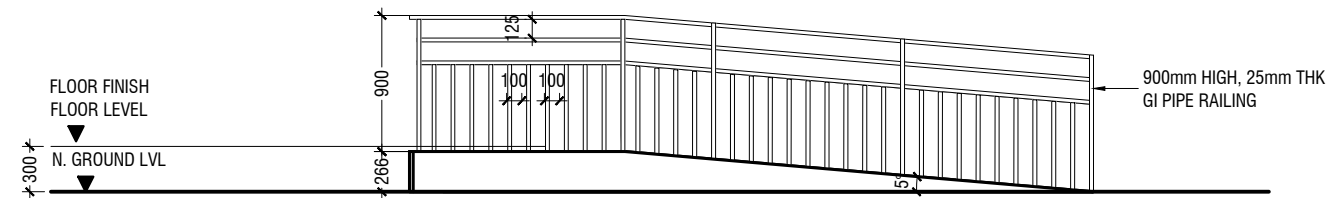
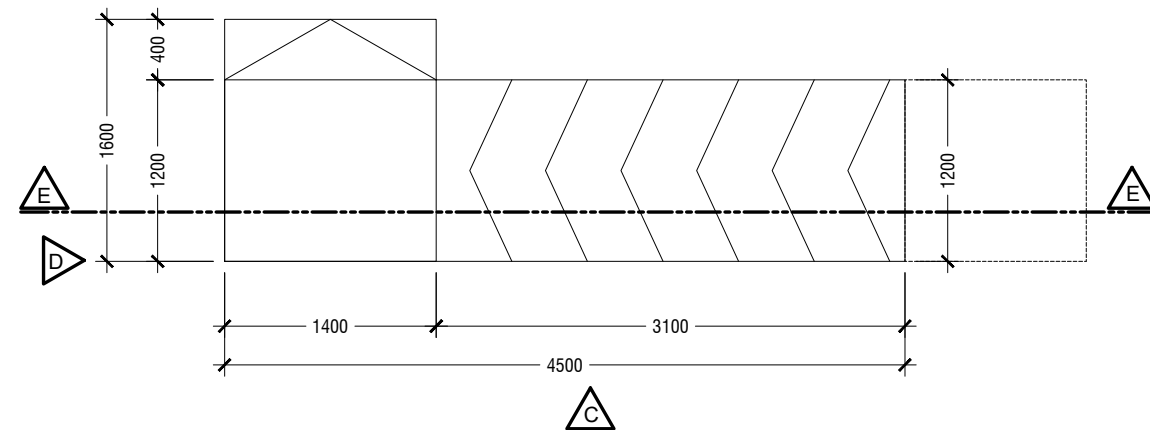
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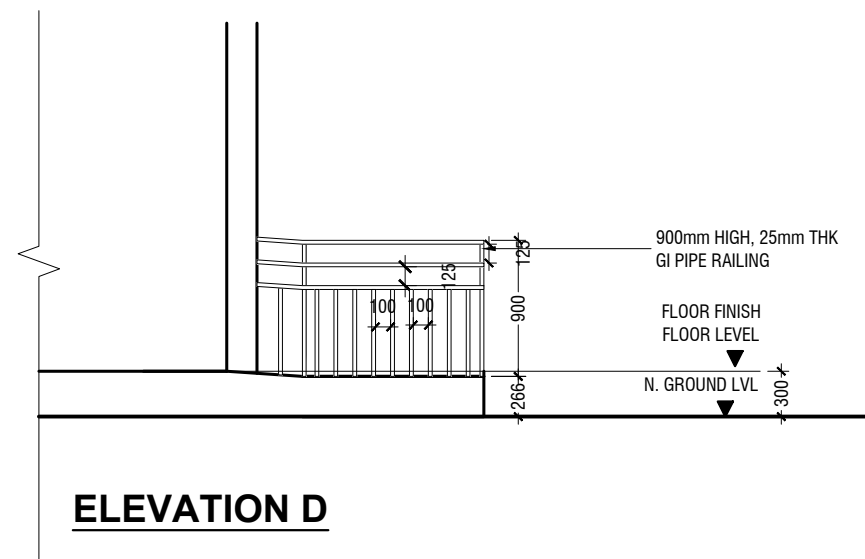
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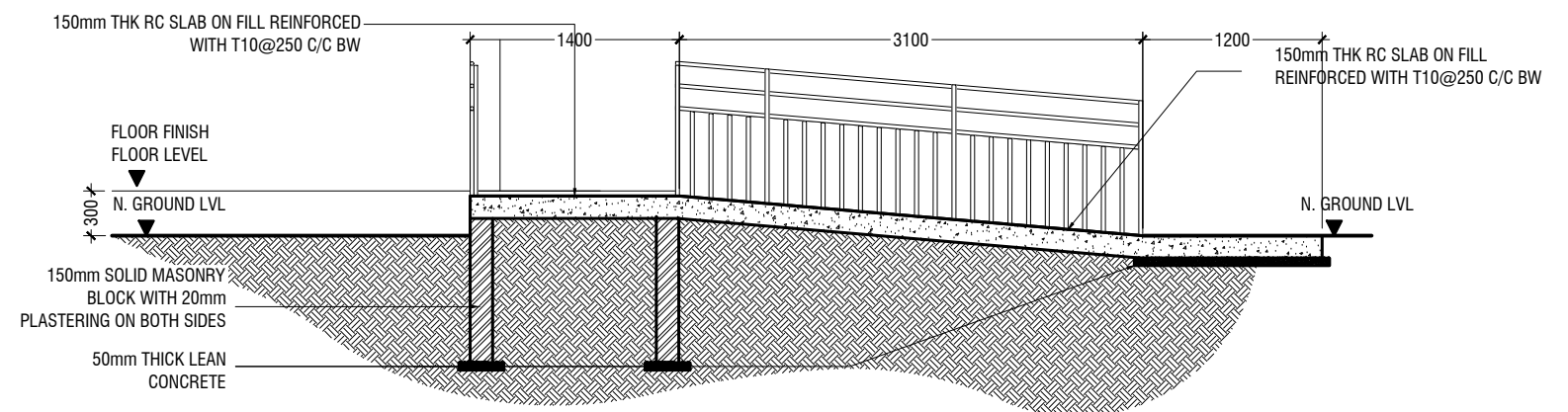
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ELEVATION C



ELEVATION D



SECTION E-E

MAIN ENTRANCE RAMP DETAILS

SCALE 1:50



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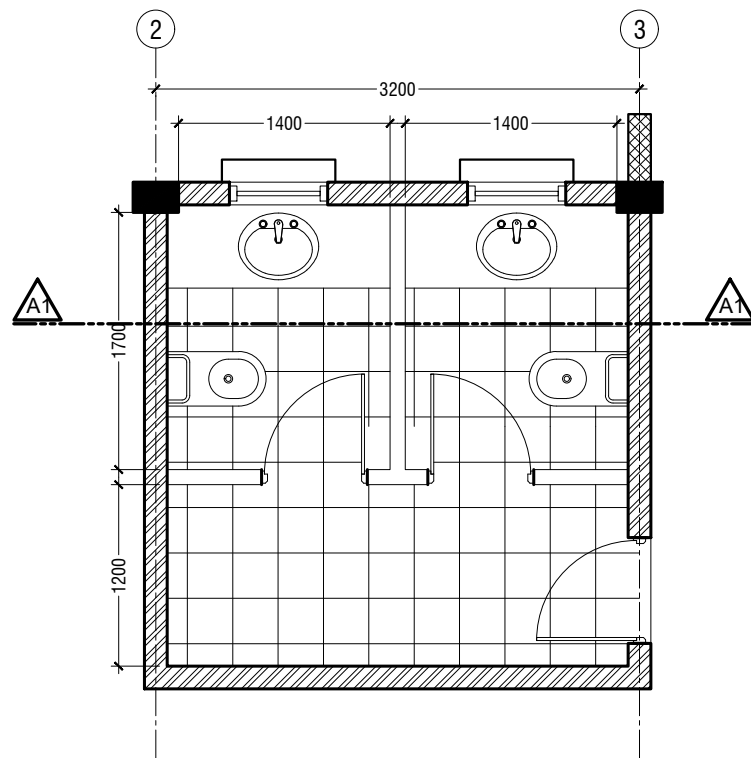
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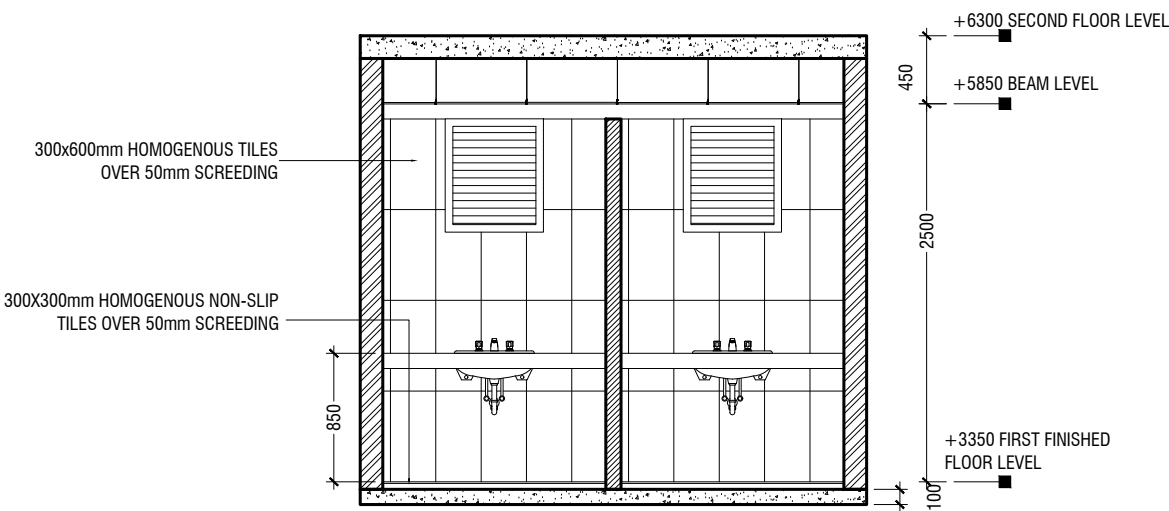
Title: Main Entrance Ramp
Details

Page: A-17/21



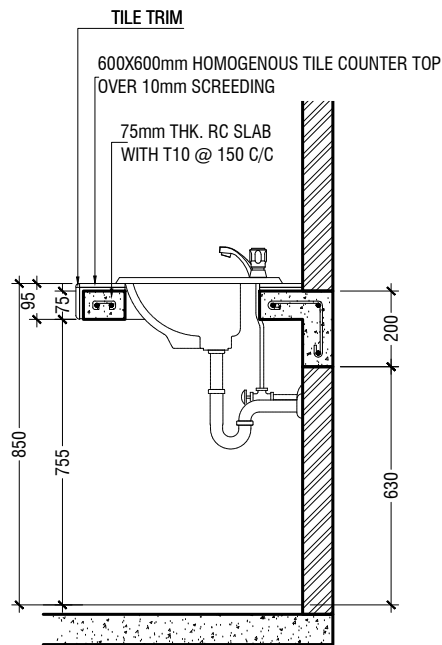
TYPICAL TOILET PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



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



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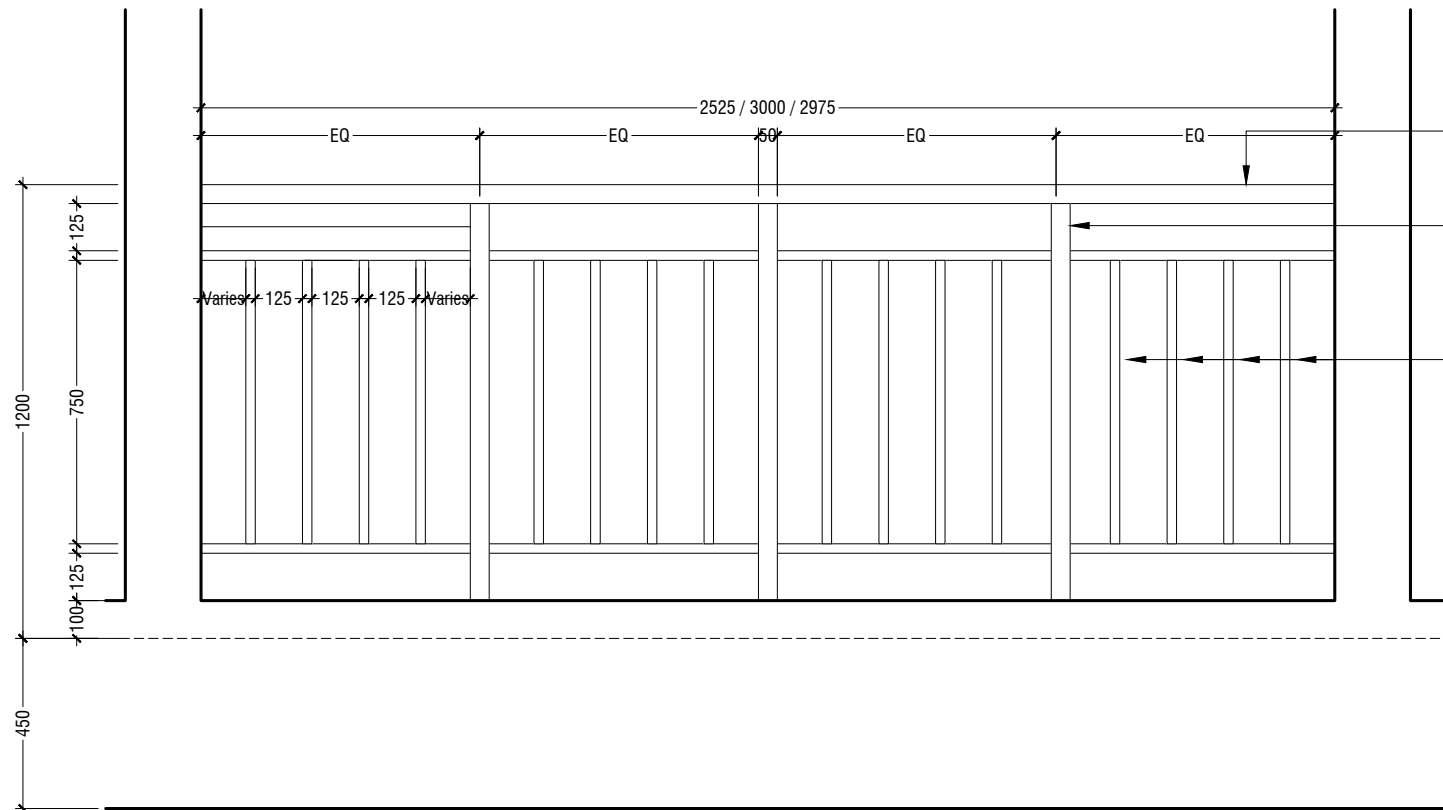
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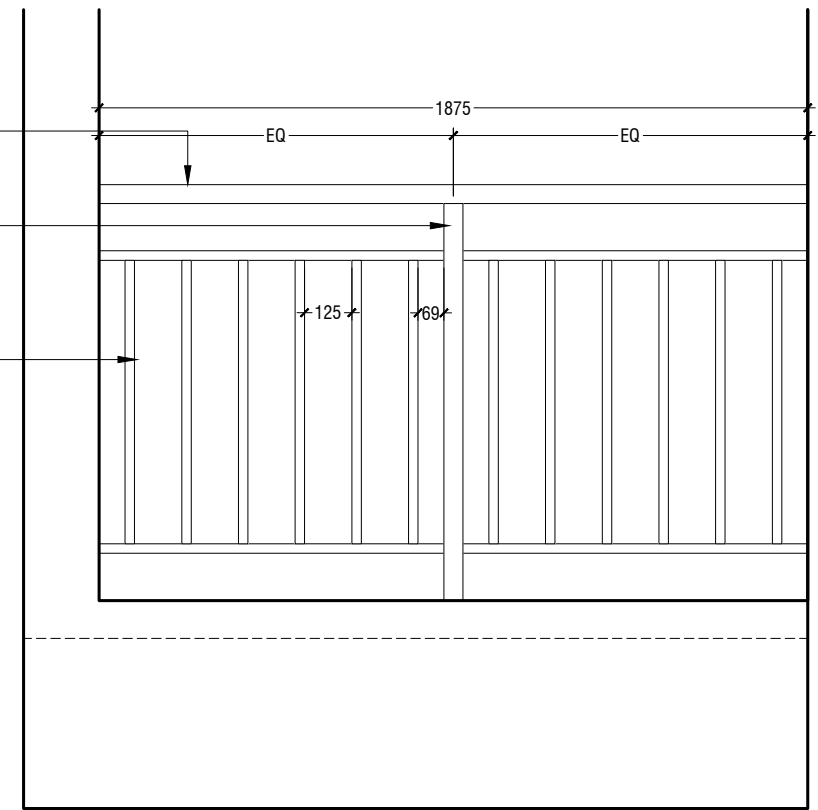
Title: Toilet Details

Page: A-18/21



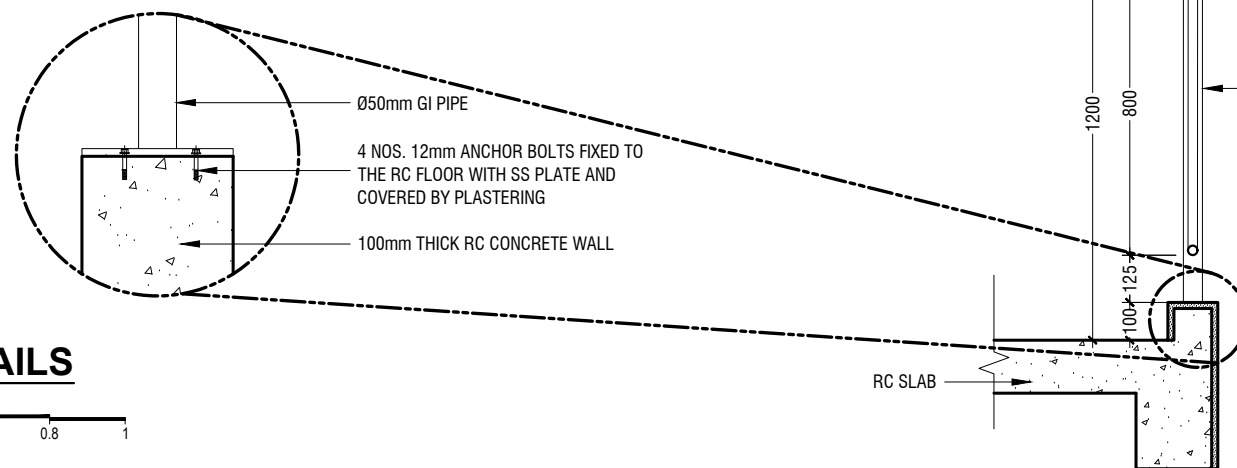
ELEVATION (FACADE RAILINGS)

SCALE 1:20



ELEVATION 2 (SIDE RAILINGS)

SCALE 1:20



RAILING DETAILS

SCALE 1:20



Ø50 mm GI RAILING PIPE
FIXED TO WALL AND WELDED
TO SS VERTICAL PIPE

Ø50 mm GI VERTICAL PIPE
WELDED TO HORIZONTAL PIPE
AND BOLTED TO RC SLAB

Ø25 mm GI VERTICAL PIPES
WELDED TO HORIZONTAL PIPE

SECTION

SCALE 1:20



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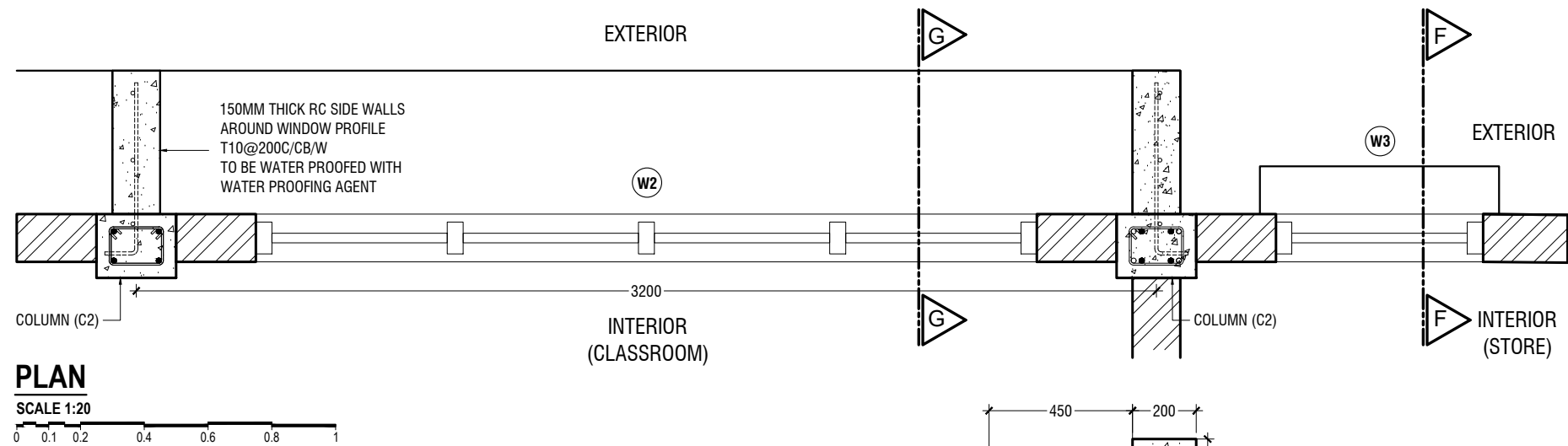
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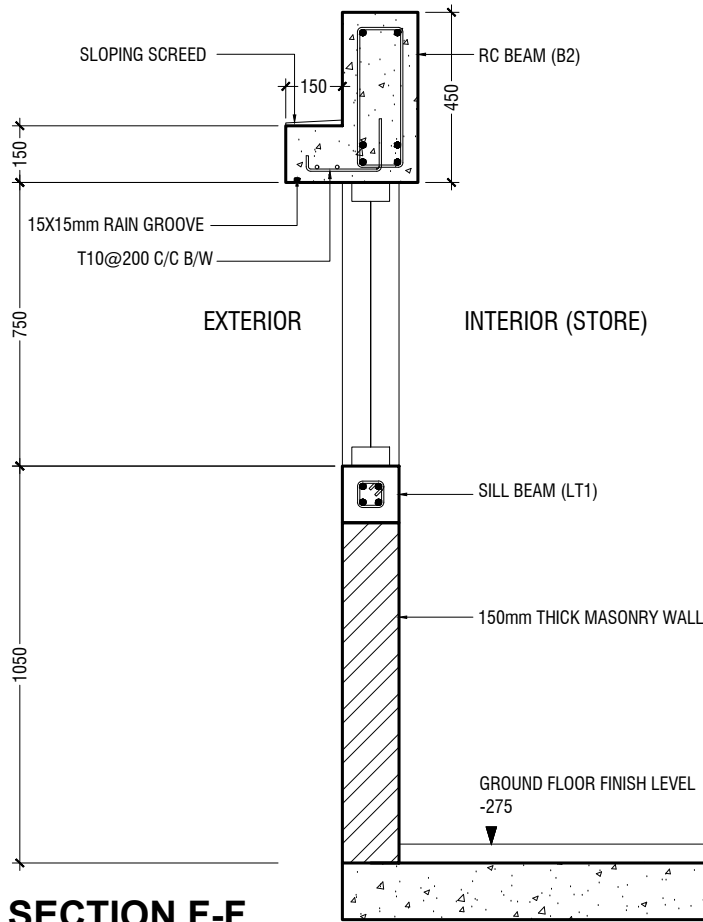
Title: Railing Details

Page: A-19/21



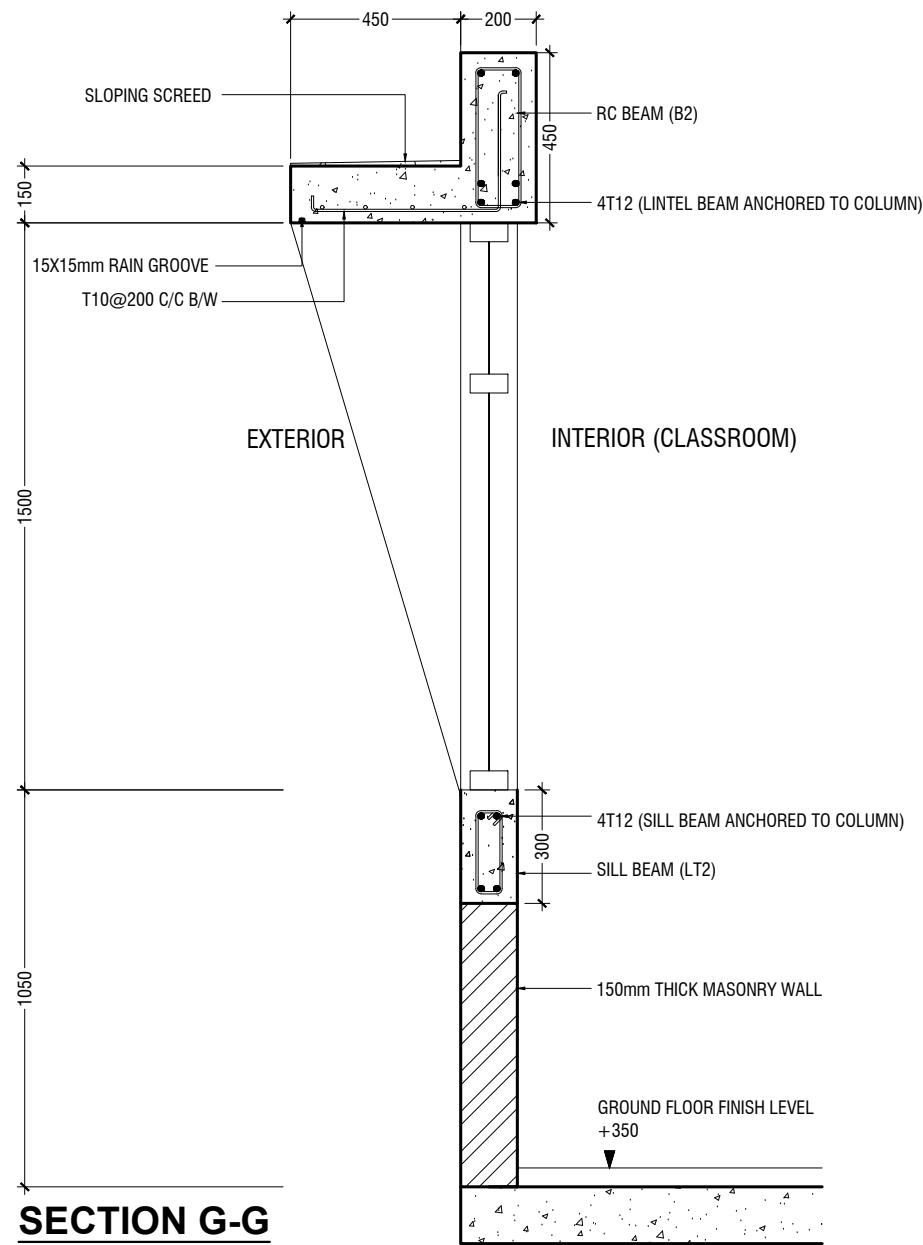
PLAN

SCALE 1:20



SECTION F-F

SCALE 1:20

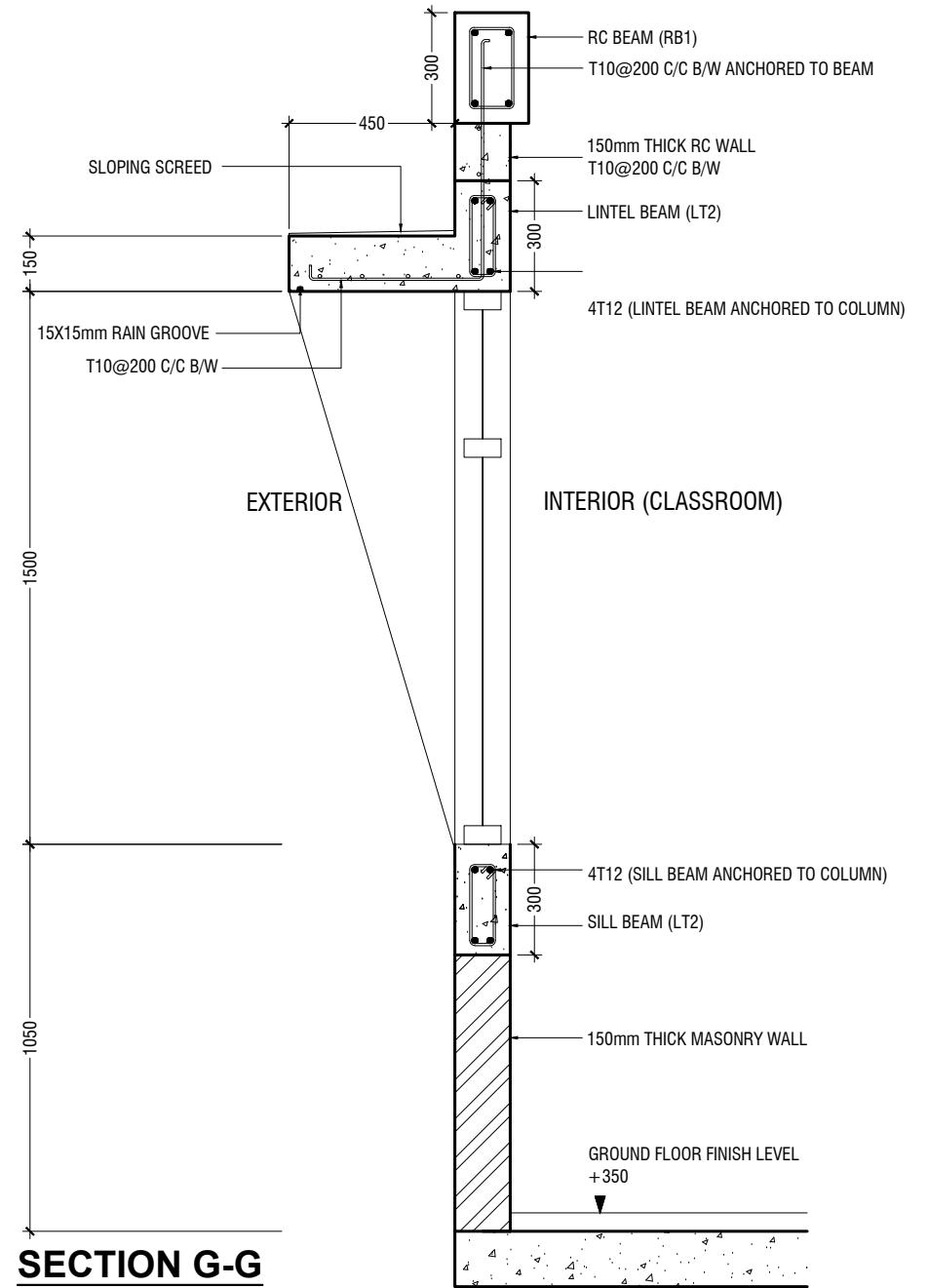


SECTION G-G

SCALE 1:20



* NOTE: GROUND FLOOR



SECTION G-G

SCALE 1:20



* NOTE: FIRST FLOOR

RC WALL DETAILS

SCALE 1:20



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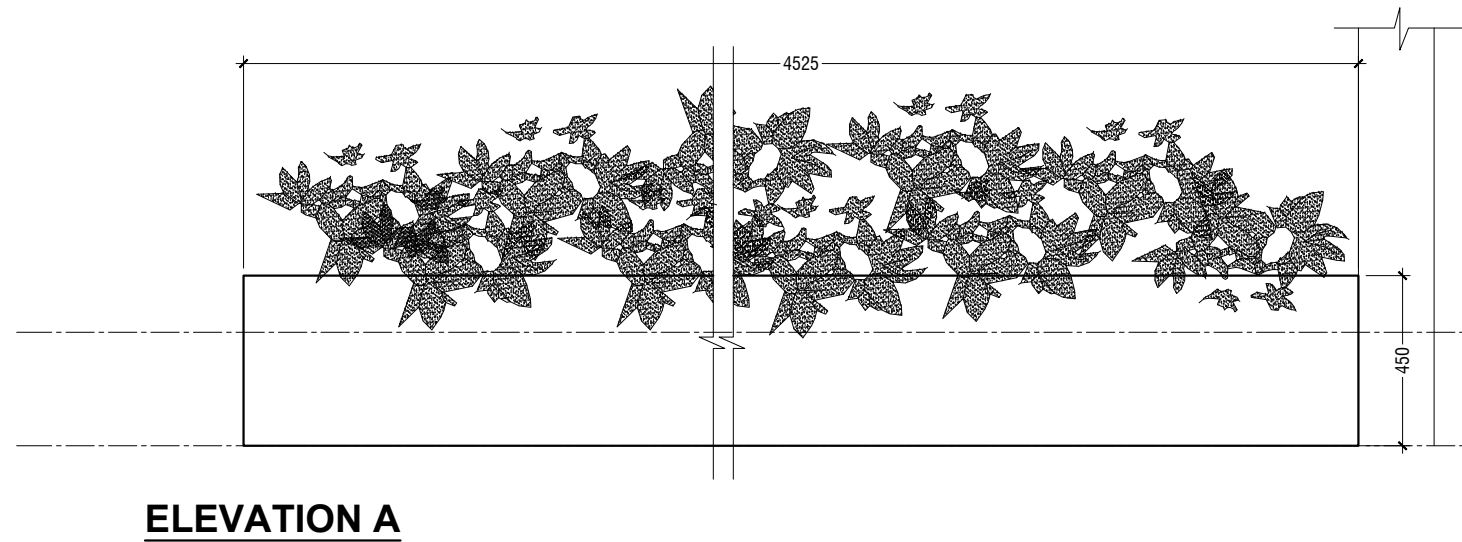
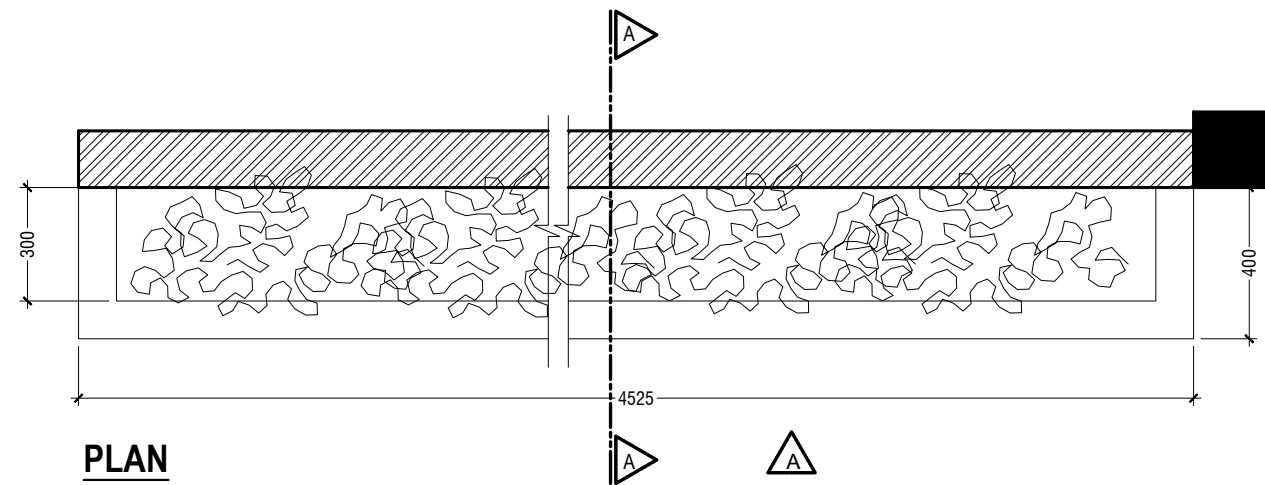
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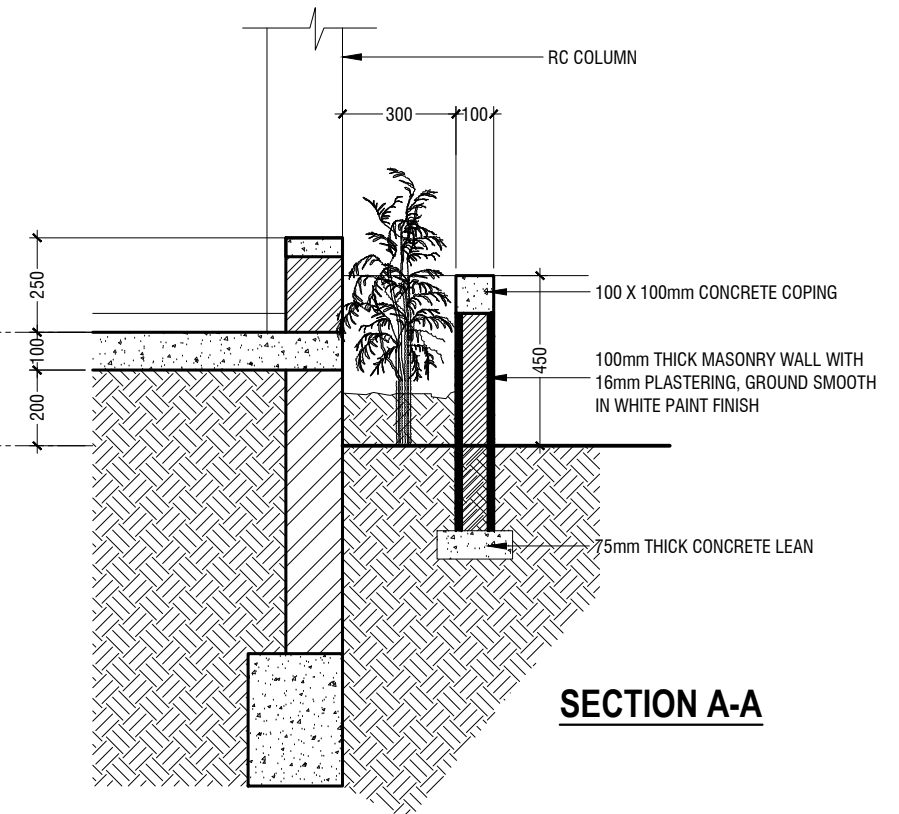
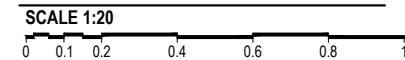
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Title: RC Wall Details

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PLANTER BOX DETAILS



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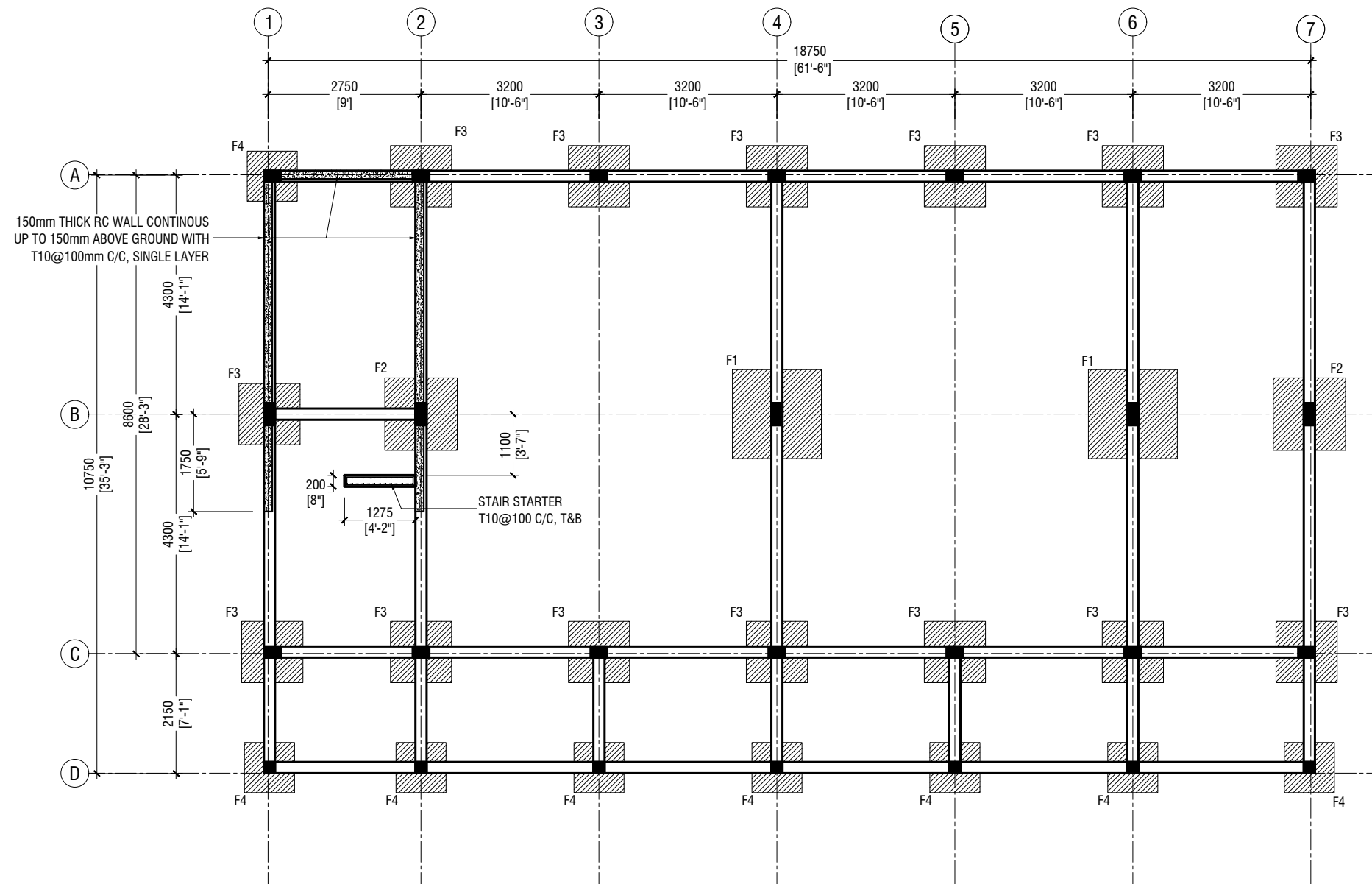
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Title: Planter Box Details

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FOUNDATION PLAN

SCALE 1:100



NOTE:

FOUNDATION DEPTH = -1200 FROM NGL

ALL TIE BEAMS ARE FB1



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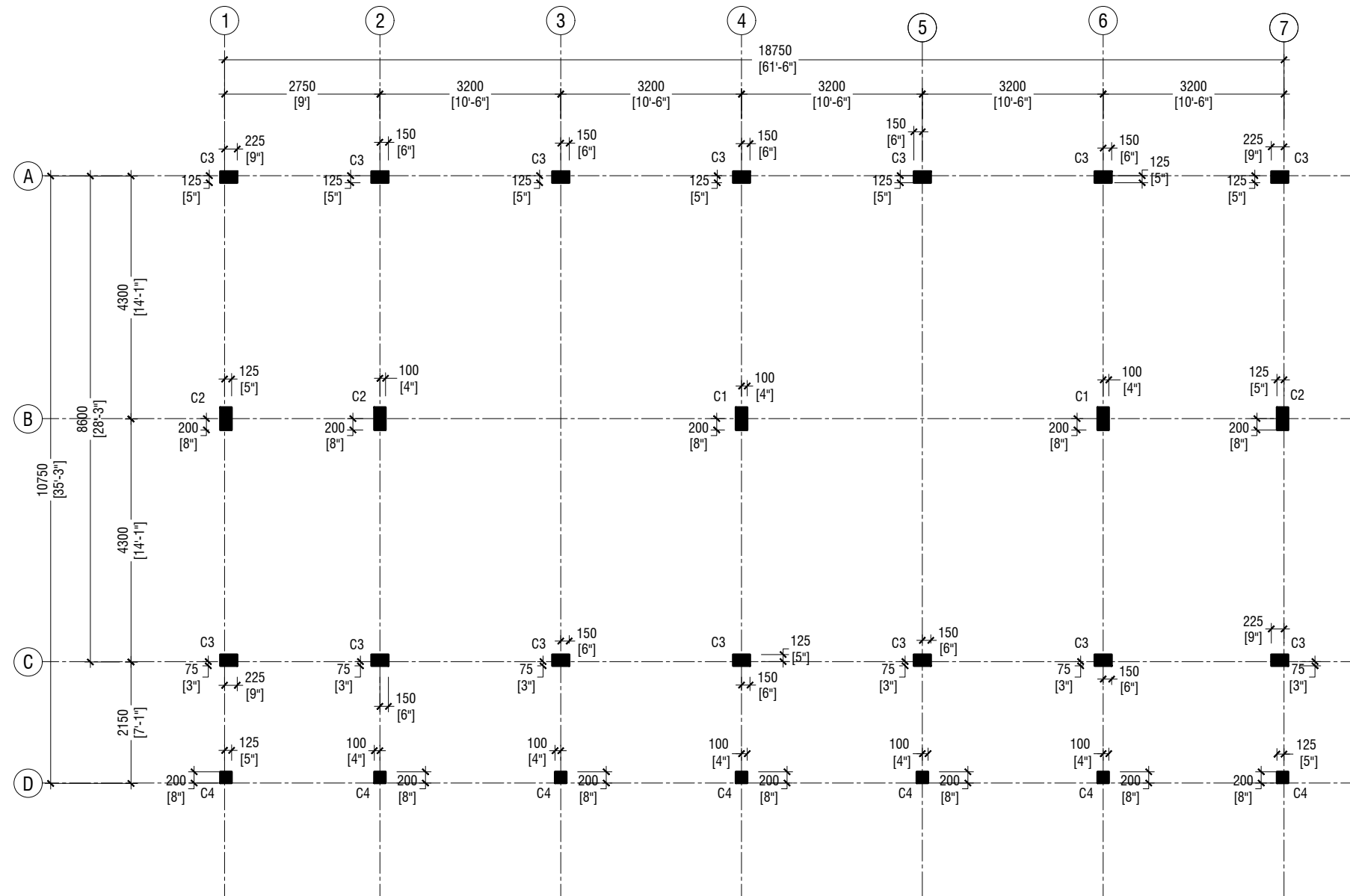
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Title: Foundation Plan

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GROUND FLOOR COLUMN LAYOUT

SCALE 1:100



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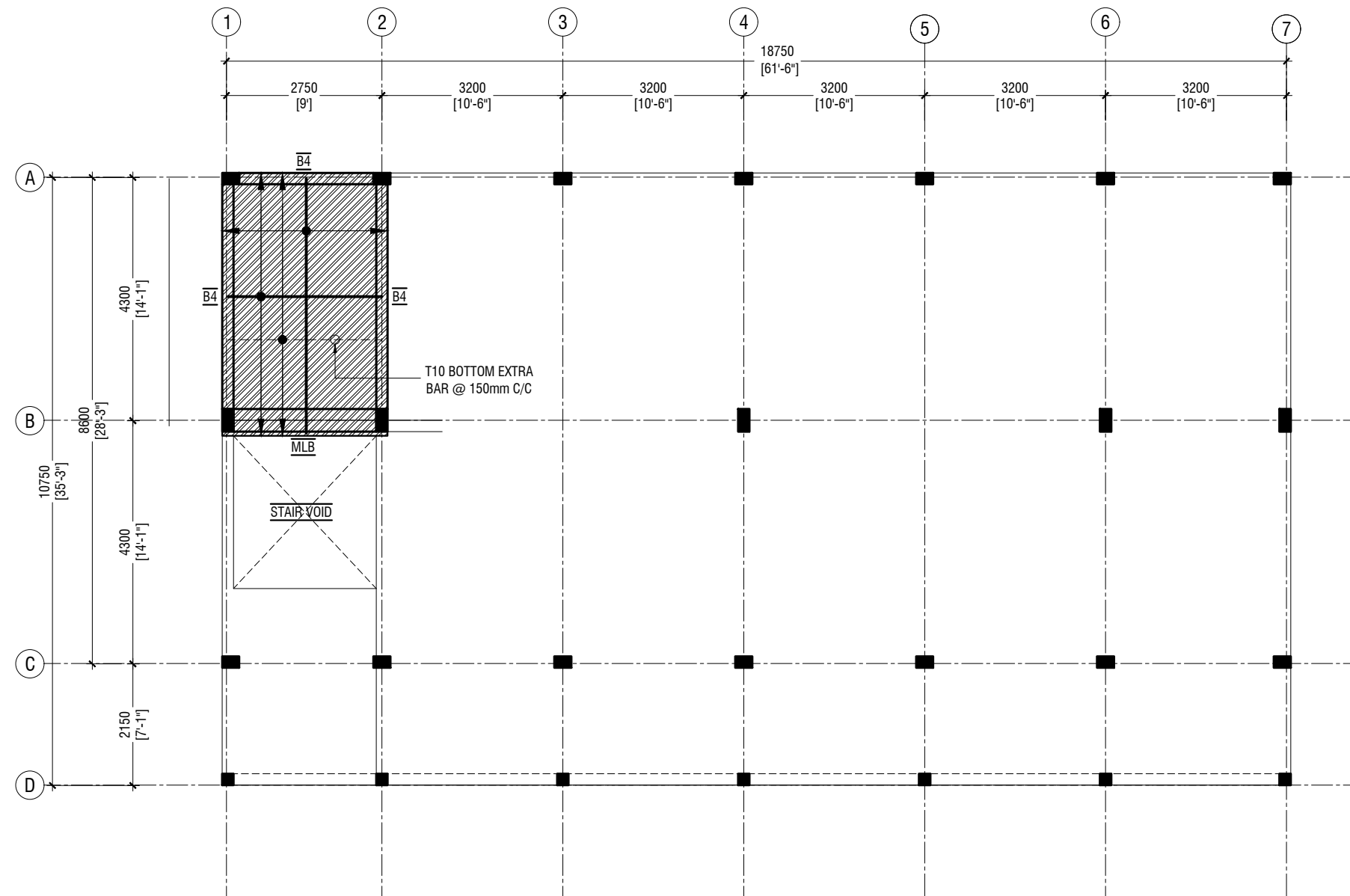
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Title: Ground Floor
Column Layout

Page: S-02/12



HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN (+1850)

SCALE 1:100



NOTE

HALF LANDING SLAB - 150mm

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

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

DISTRIBUTION BAR - T10@150 C/C BW (UNLESS STATED)



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Services: Aishath Ahmed

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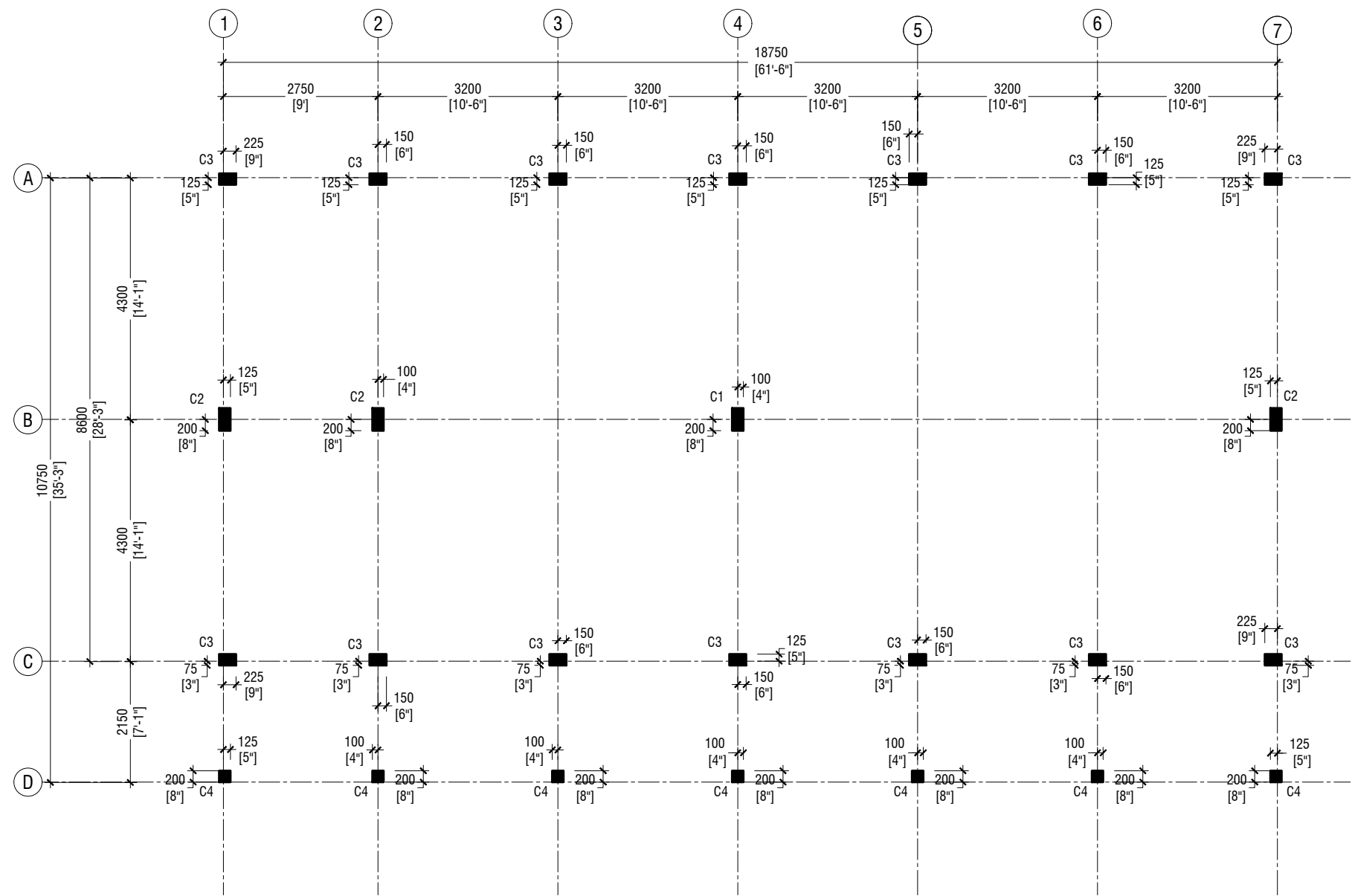
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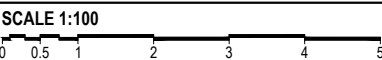
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Title: First Floor
Beam Plan

Page: S-03/12



FIRST FLOOR COLUMN LAYOUT



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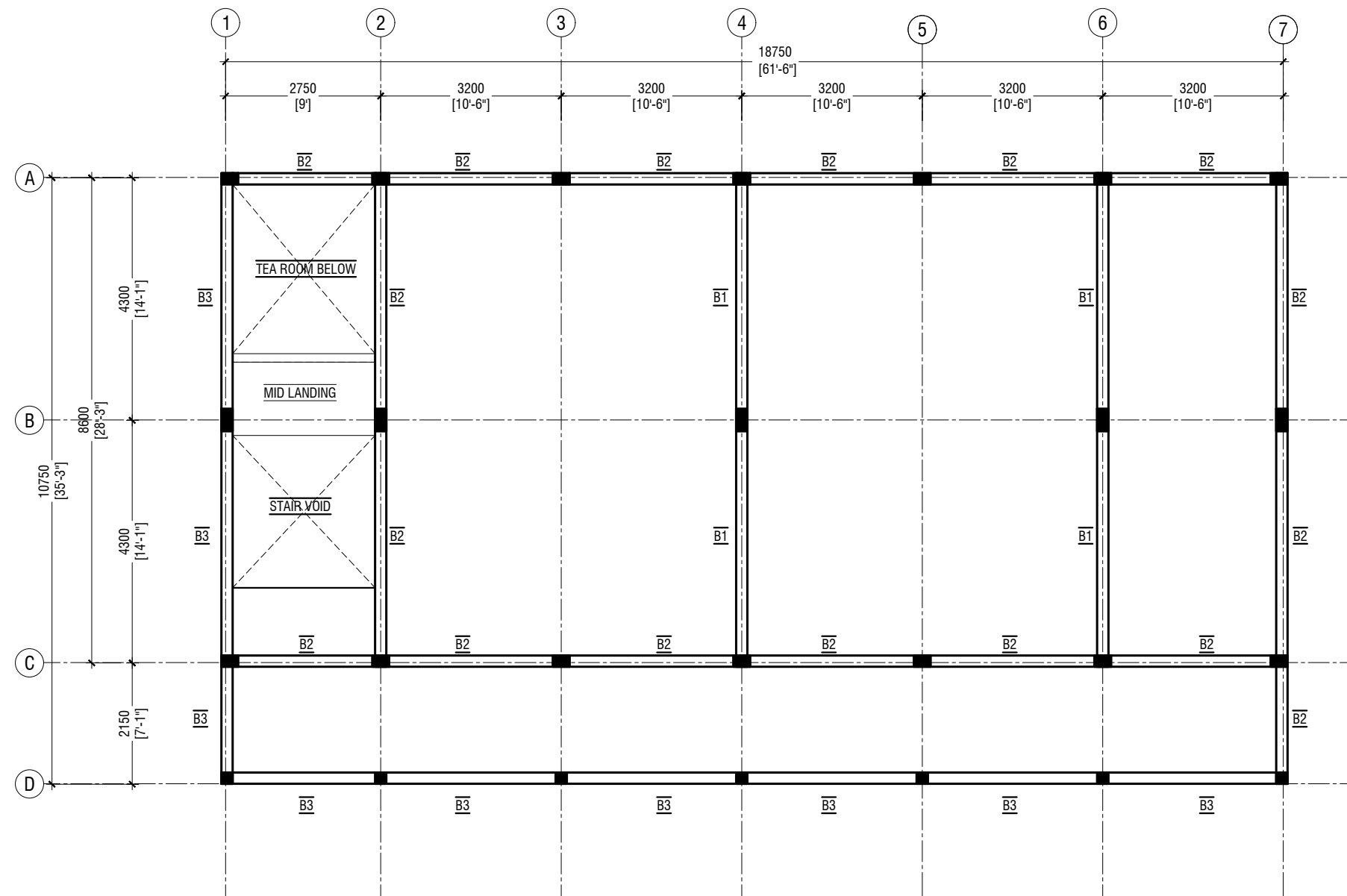
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Title: First Floor
Column Layout

Page: S-04/12



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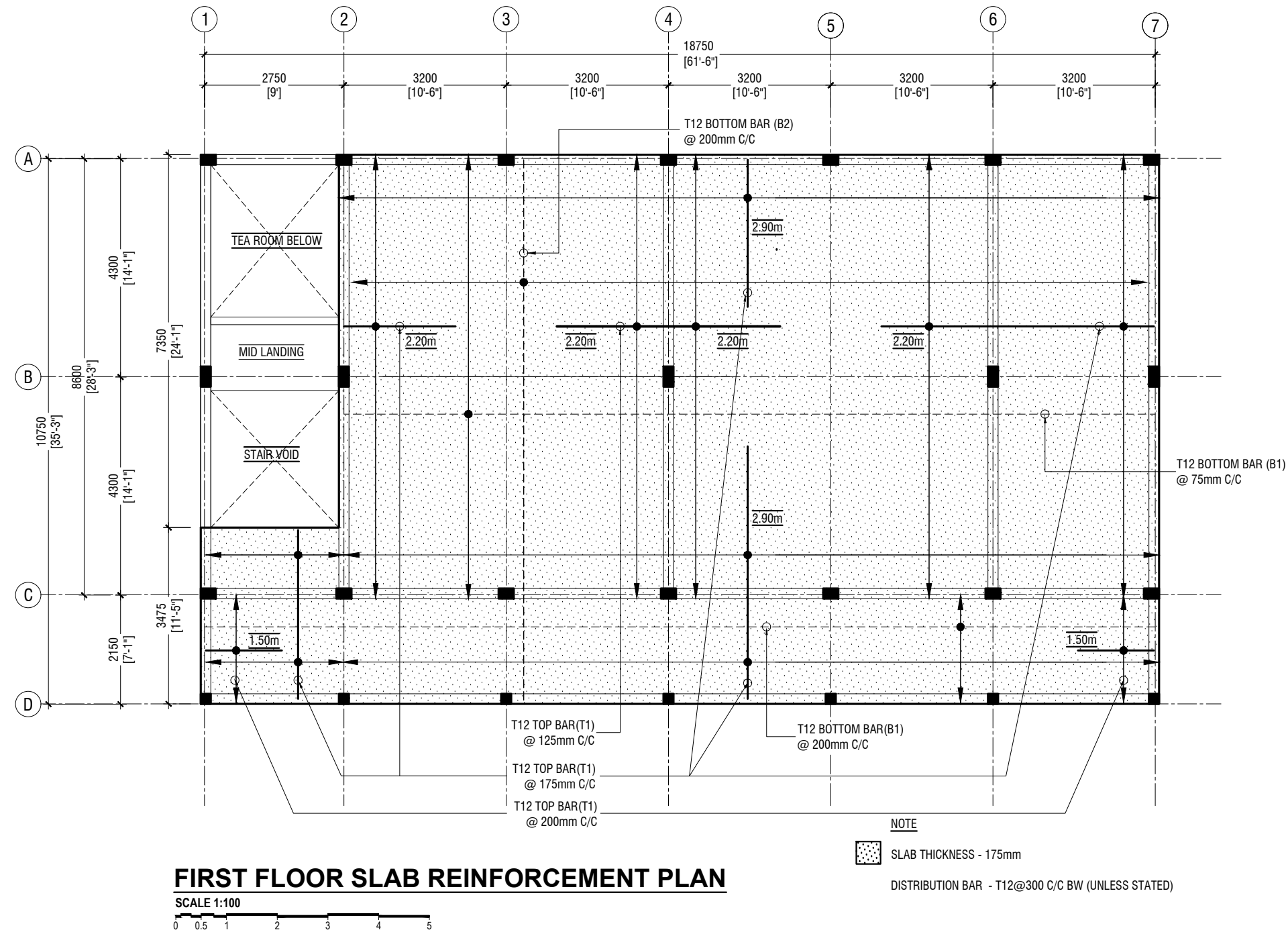
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Title: Store / Half Landing
Beam & Slab Rein. Plan

Page: S-05/12



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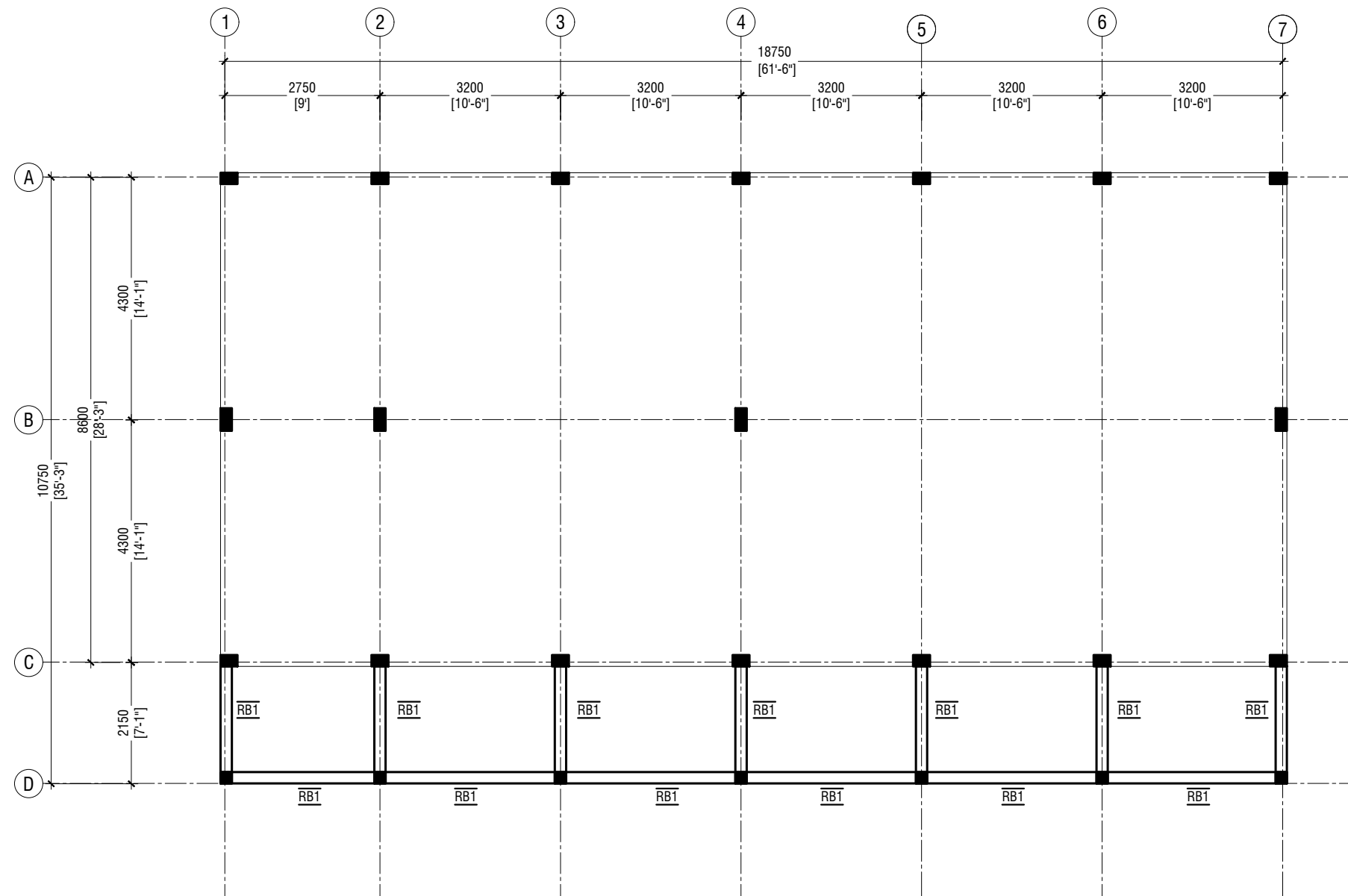
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Title: First Floor
Slab Rein. Plan

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ROOF BEAM PLAN - 1 @6.15m FROM F.F.L

SCALE 1:100



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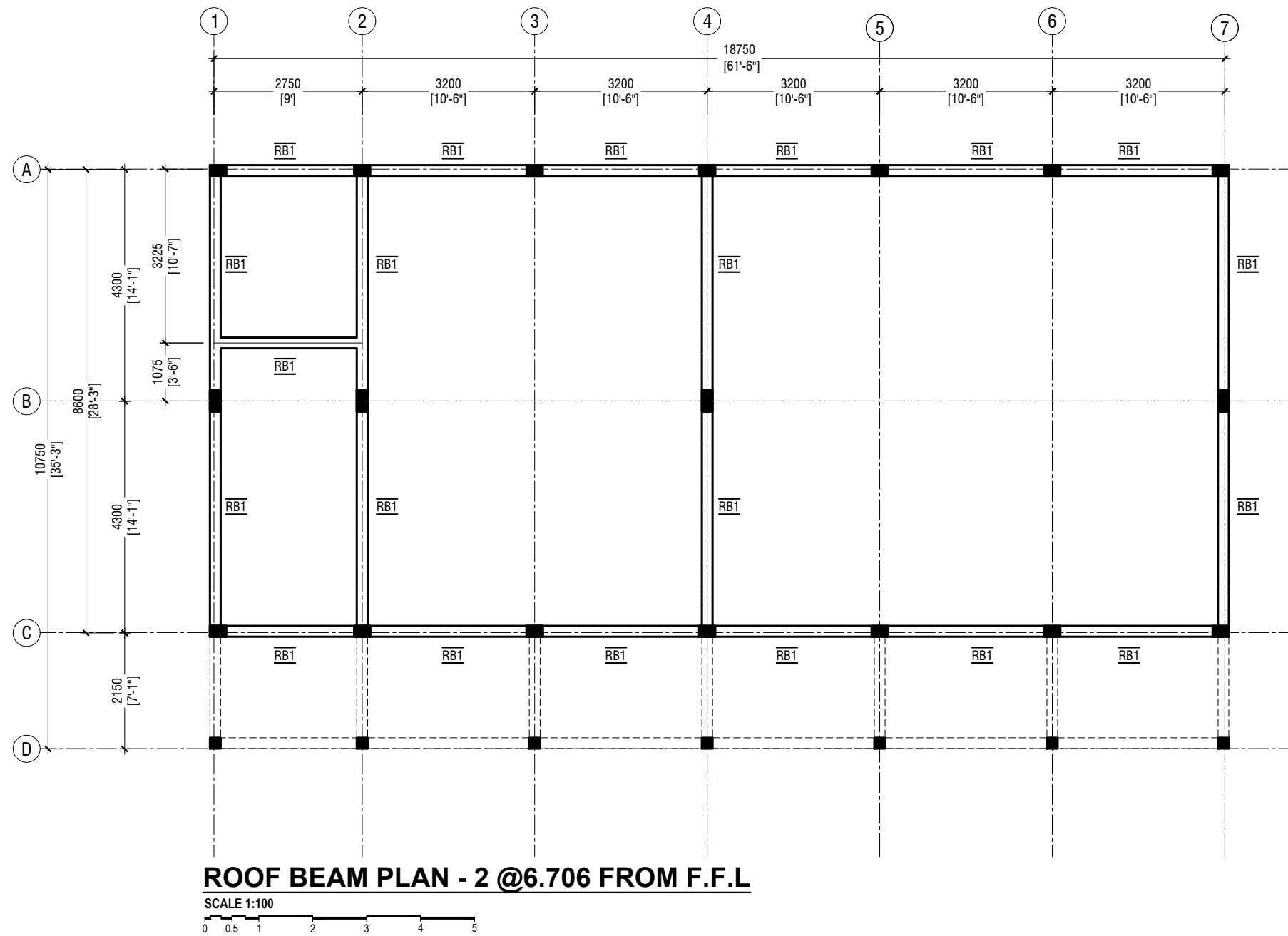
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Title: Roof Beam Plan - 1
(+6150)

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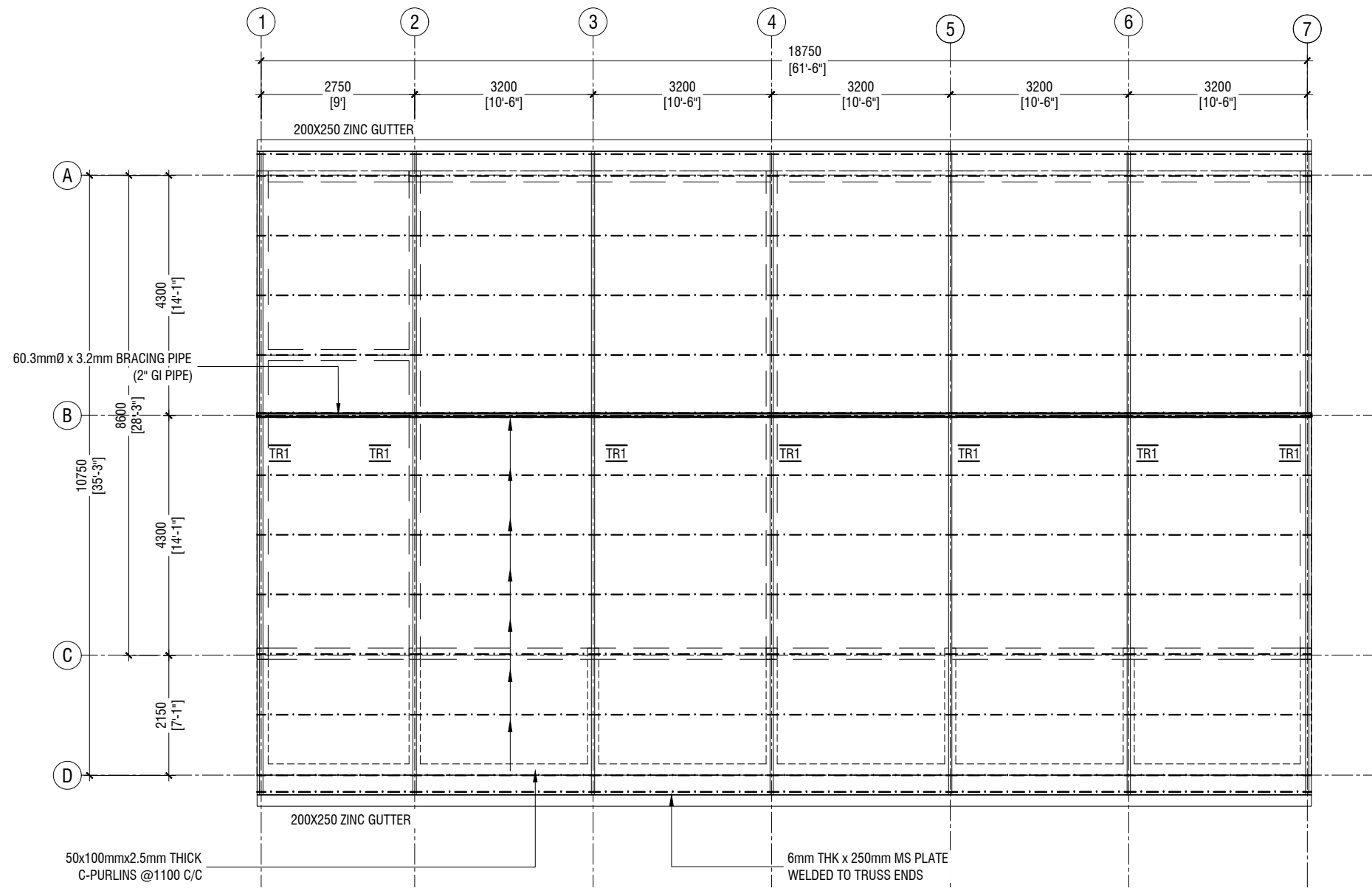
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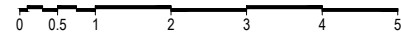
Title: Roof Beam Plan - 2
(+6706)

Page: S-08/12



ROOF TRUSS & FRAMING PLAN

SCALE 1:100



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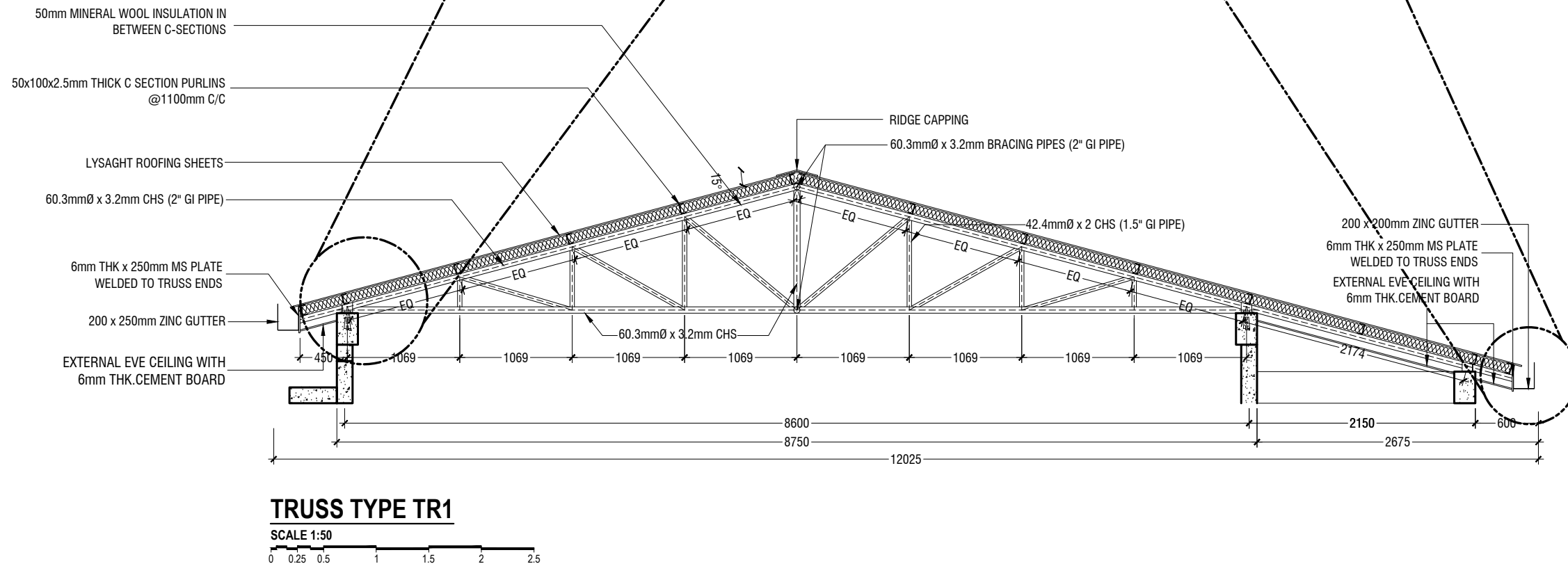
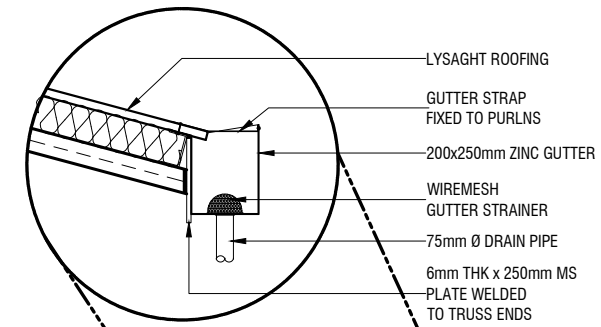
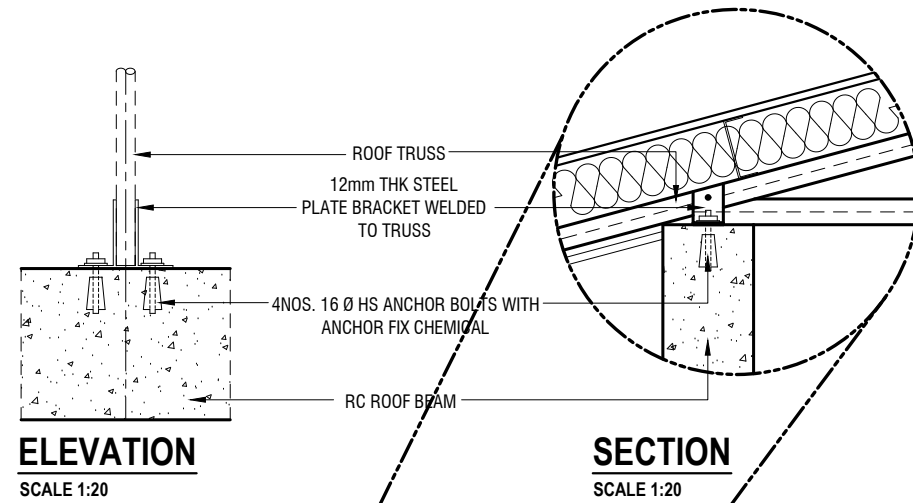
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Title: Roof Truss & Framing
Plan

Page: S-09/12



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Title: Truss Type TR1

Page: S-10/12

FOUNDATION PADS

	DIMENSION	REINFORCEMENT
F1	1600 x 1600 x 300	T16@200 C/C (B1) & T16@300 C/C (B2)
F2	1300 x 1300 x 300	T16@200 C/C (B1) & T16@300 C/C (B2)
F3	1100 x 1100 x 300	T12@150 C/C B/W (B)
F4	900 x 900 x 200	T12@200 C/C B/W (B)

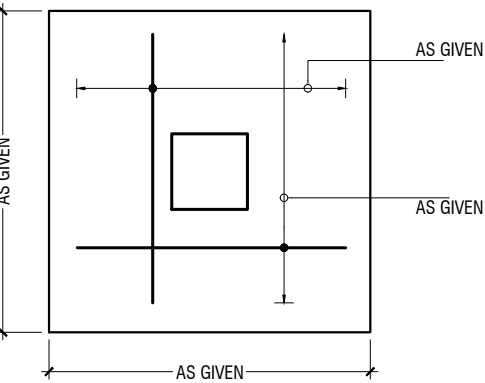
FOUNDATION DEPTH = 1200mm
ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK LEAN CONCRETE
APPLY WATER PROOFING TO SUBSTRUCTURE(BELOW GROUND ELEMENTS)

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

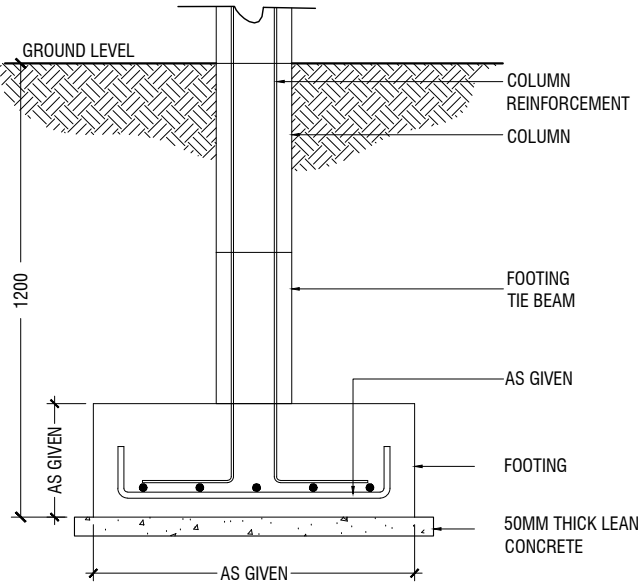
GROUND SLAB : 150mm THK RC SLAB ON FILL
REINFORCED WITH T10@200 C/C BW

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

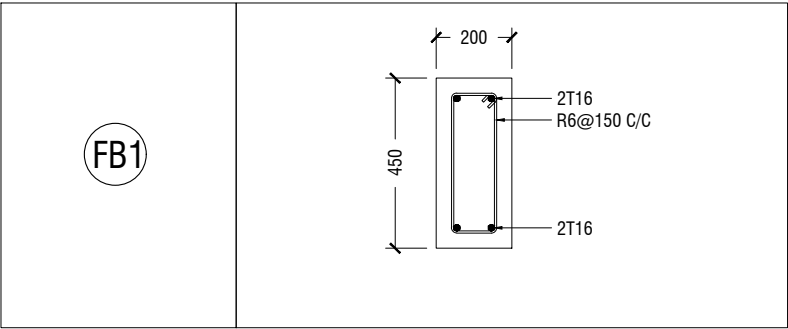
RAMP SLAB : 150mm THK RC SLAB ON FILL
REINFORCED WITH T10@250 C/C BW
WITH 150mm THK. SOLID MASONRY BLOCK WALL SUPPORT



PLAN



SECTION

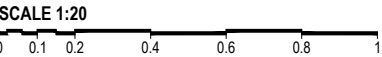


FOUNDATION DETAILS

	GROUND & 1ST FLOOR
C1	
C2	
C3	
C4	

COLUMN DETAIL

STRUCTURAL DETAILS - 1

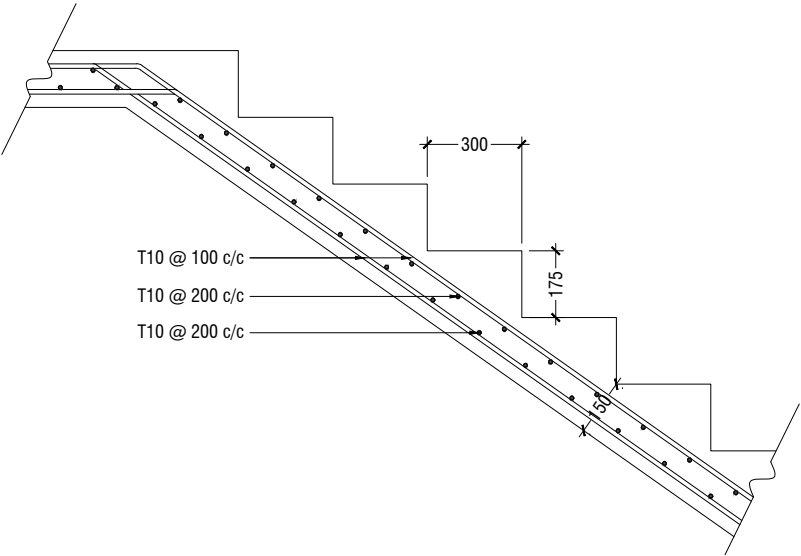


	MIDSPAN	SUPPORT
B1		
B2		
B3		
B4 AT MID-LANDING LEVEL		
MLB		
RB1		

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

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1