

Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education



RIYAN PRIVATE LIMITED
T: +963310245 F: +963310776
E: info@riyan.com.my
W: www.riyan.com.my
3rd floor, 14, Azura, Kembangan, Malaysia

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Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: R/2019/025

Date: JULY 2019

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

Drawn by: Fahimath Leena Jaleel

Services: Architectural, Structural, Mechanical, Electrical, Plumbing, Fire, Landscape, Interior Design, etc.

Scale: As per drawing

Notes: All dimensions are in meters unless otherwise stated. All materials to be of standard quality unless otherwise stated. All work to be done in accordance with the latest edition of the relevant codes of practice.

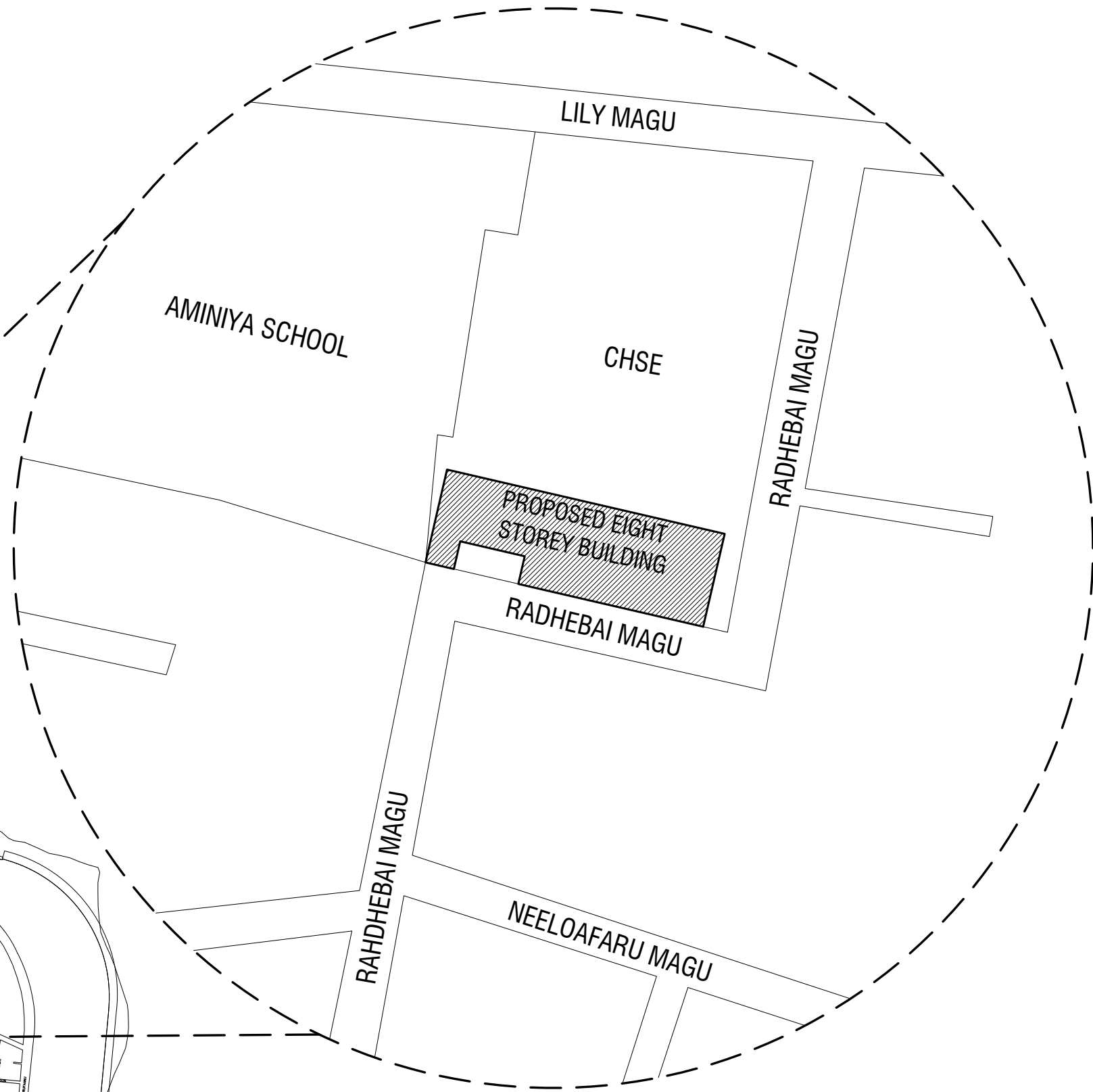
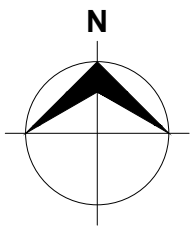


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E: info@riyan.com.mv
W: www.riyan.com.mv
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Title: Table Of Contents

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LOCATION PLAN
NOT TO SCALE

**Proposed Eight Storey Extension
At CHSE**

Client: Ministry Of Education

Project Number: RI/2016/005

Date: JULY 2019

Architect: Fatimah Leena Jaleel

Engineer: Fiaz Waheed

Services: Ahsan Ahmed

Rev no

Date

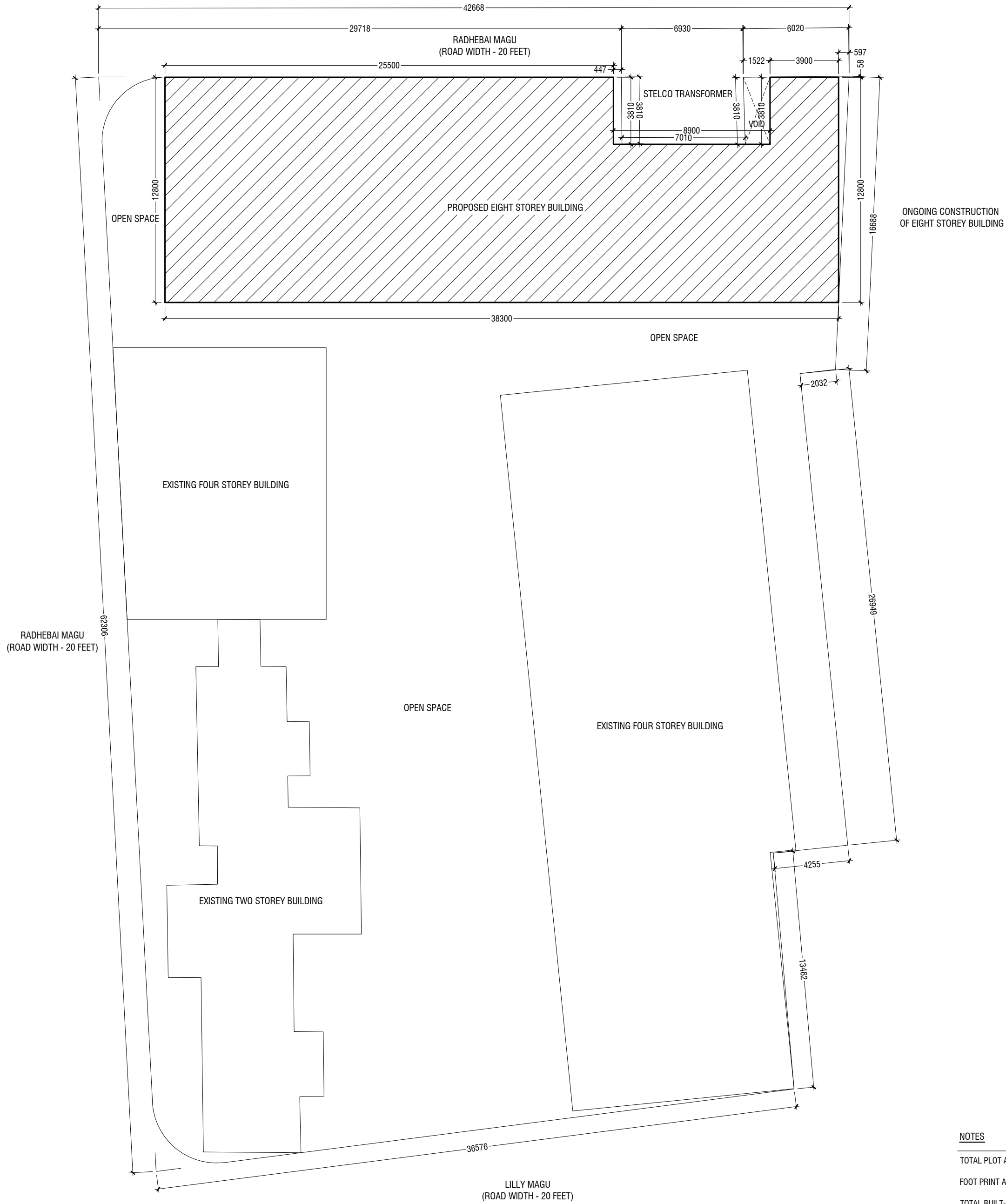
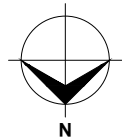


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Title: Location Plan

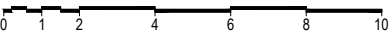
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SITE PLAN

SCALE 1:200



NOTES

TOTAL PLOT AREA	:	2325.27 Sqm / 25028.97Sqft
FOOT PRINT AREA	:	456.31Sqm / 4911.68 Sqft
TOTAL BUILT-UP AREA	:	3760.22 Sqm / 40474.67 Sqft
OPEN AREA	:	933.21 Sqm / 86.7 Sqft
PARKING AREA	:	318.19 Sqm / 3424.97 Sqft

Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education

Project Number: RI/2016/005

Date: JULY 2019

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

Drawn by: Fahimath Leena Jaleel

Checked by: Ihsan Waheed

Rev no

OT

DT

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DT

Date

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DT

DT

DT

DT

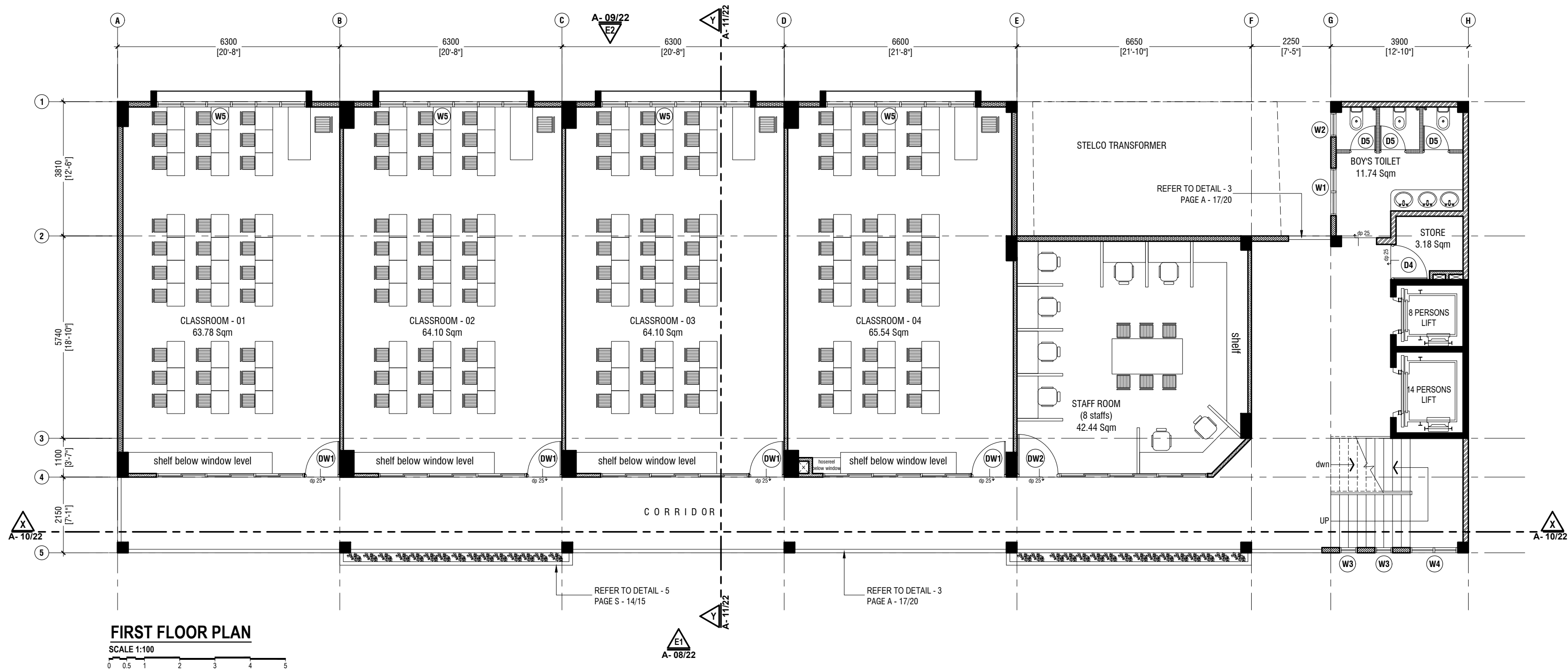
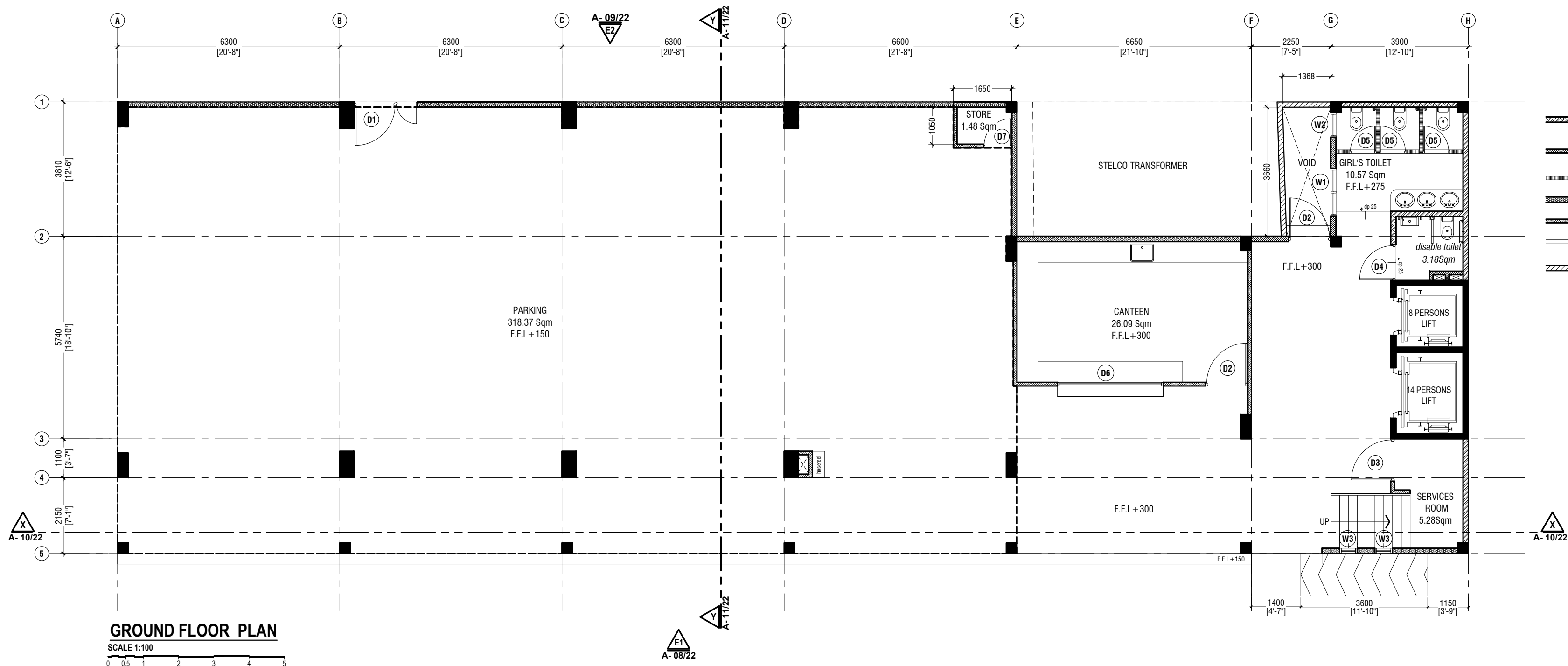
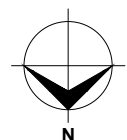
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T: +9603370249 F: +9603370776
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Title: Site Plan

Page: A- 02/22

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Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: RA/2016/005

Date: JULY 2019

Architect: Fahimath Leena Jaleel

Engineer: Iqbal Waheed

Drawn by: Fahimath Leena Jaleel

Checked by: Iqbal Waheed



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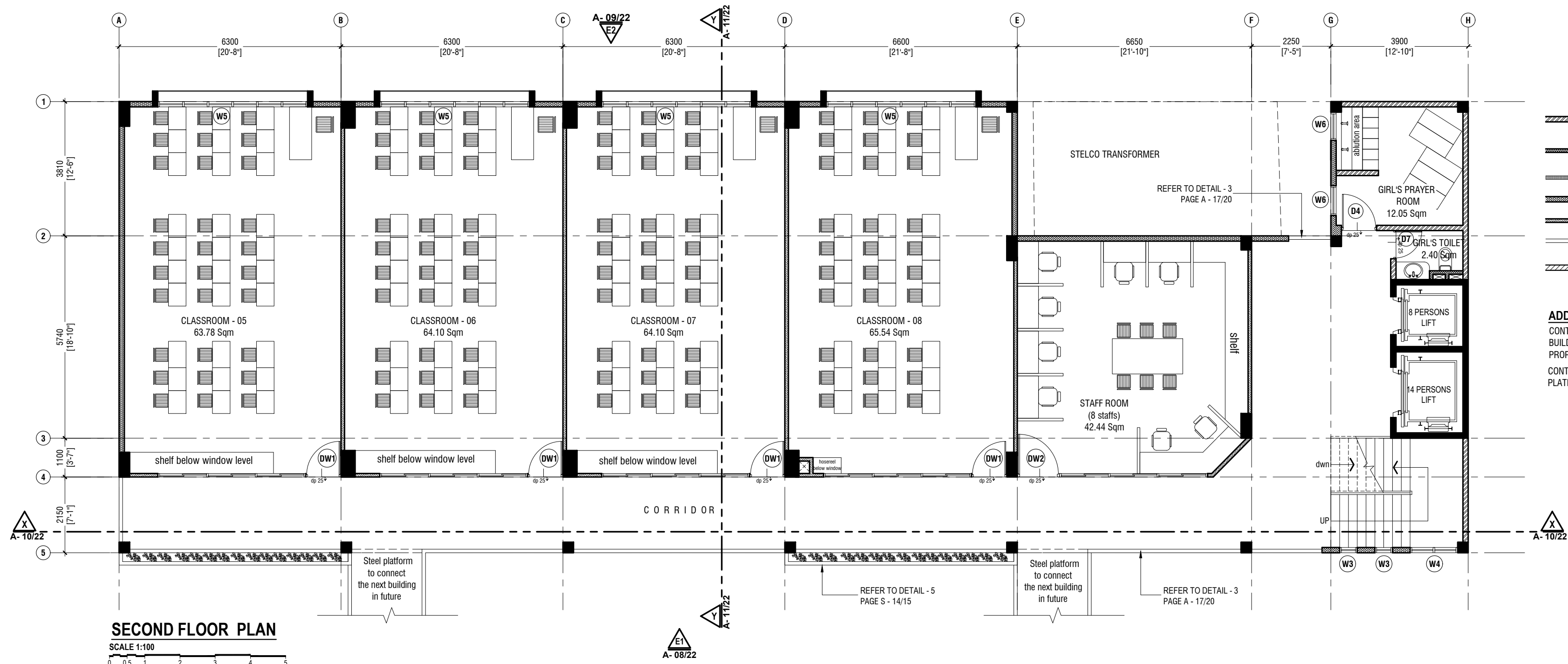
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Title: Ground & First Floor

Plan

Page: A- 03/22

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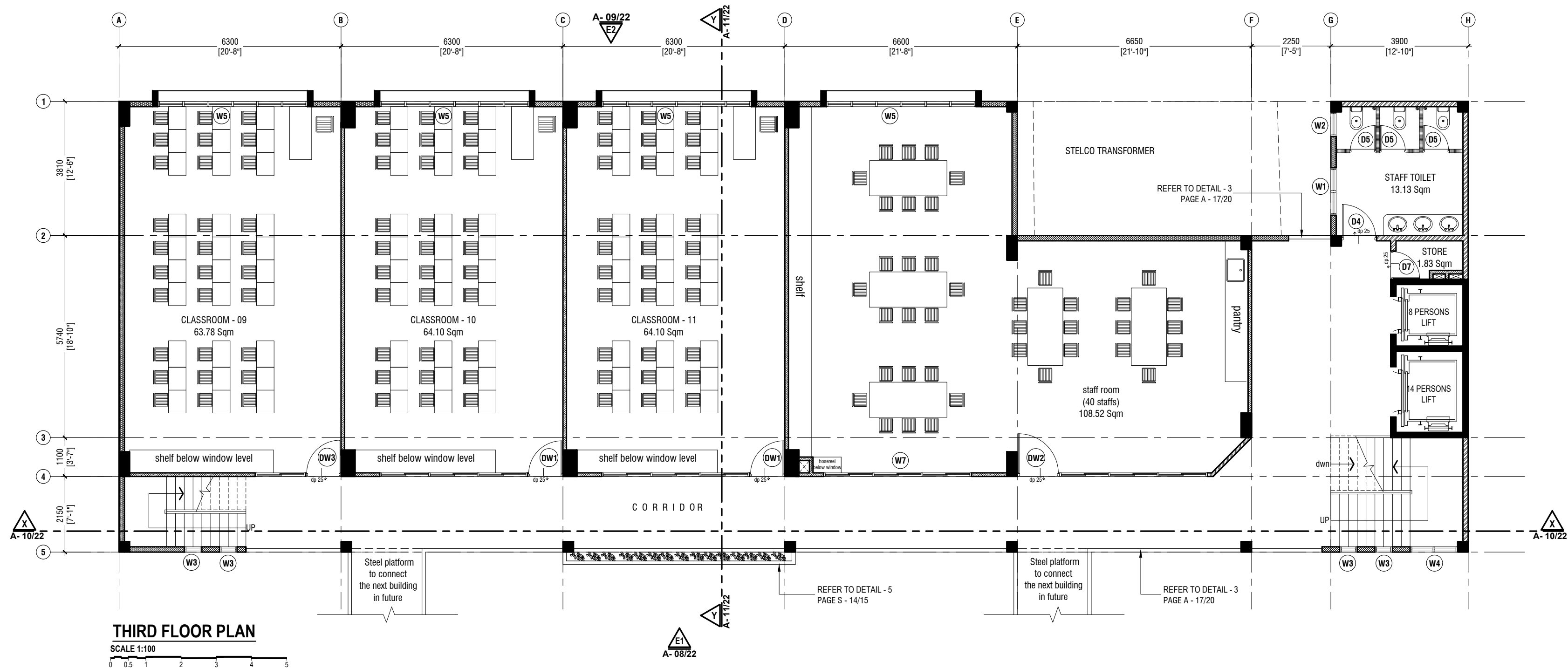
NOTE:

- 150mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- 100mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- 2200mm HIGH PVC PARTITION WALL
- ALUMINIUM CLADDING, REFER TO DETAIL - 4 ON PAGE S-13/14
- 100mm THICK DRY WALL, REFER TO FINISHING SCHEDULE
- BALCONY RAILING DETAIL, REFER TO DETAIL - 3 ON PAGE A-17/21
- 150mm THICK, 2000mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

ADDITIONAL NOTES:

CONTRACTOR TO SURVEY FINISHED FLOOR LEVELS OF EXISTING BUILDINGS AND ENSURE THEY MATCH THE FLOOR LEVELS OF THE PROPOSED BUILDING PRIOR TO CONSTRUCTION.

CONTRACTOR TO CONSULT CLIENT ON EXACT POSITION OF CONNECTING PLATFORM BETWEEN BUILDINGS PRIOR TO FINALIZATION.



Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: R/2016/005

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

Drawn by: Fahimath Leena Jaleel

Checked by: Ahsan Ali

Date: JULY 2019

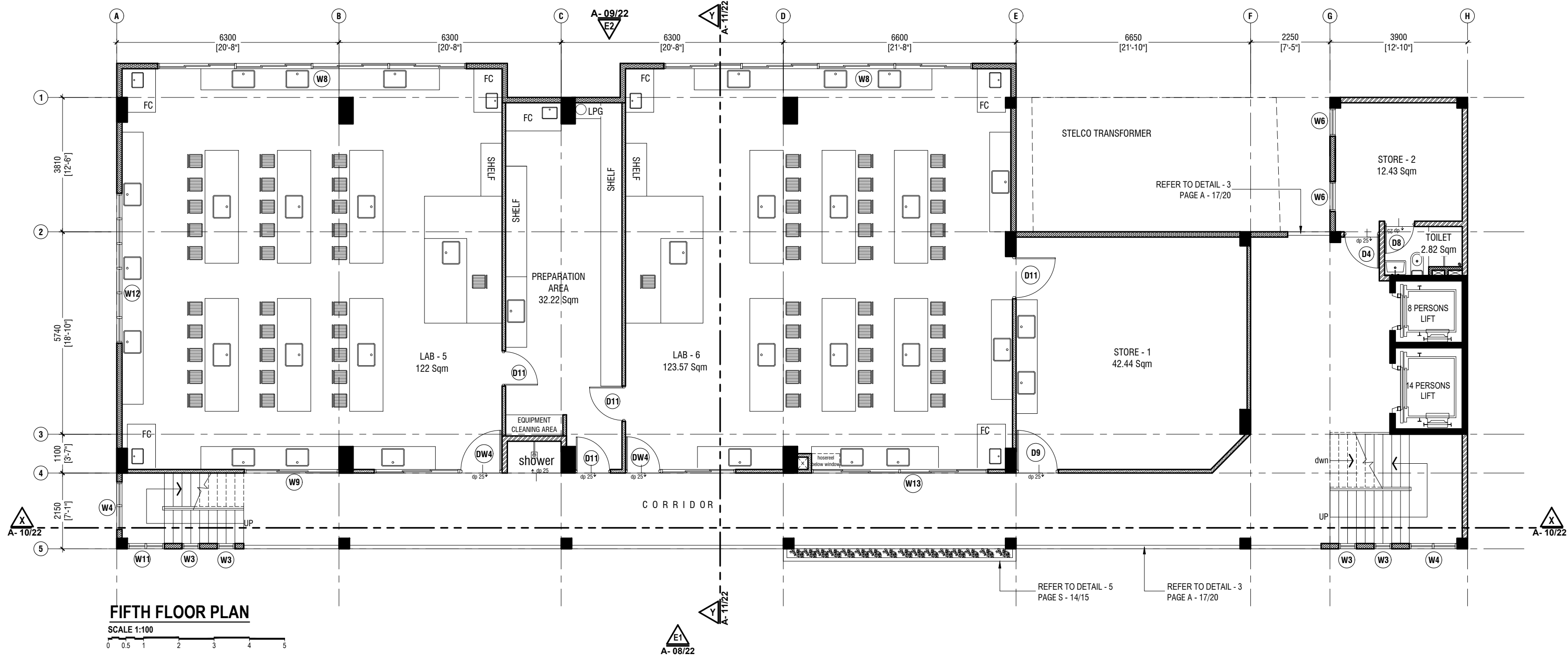


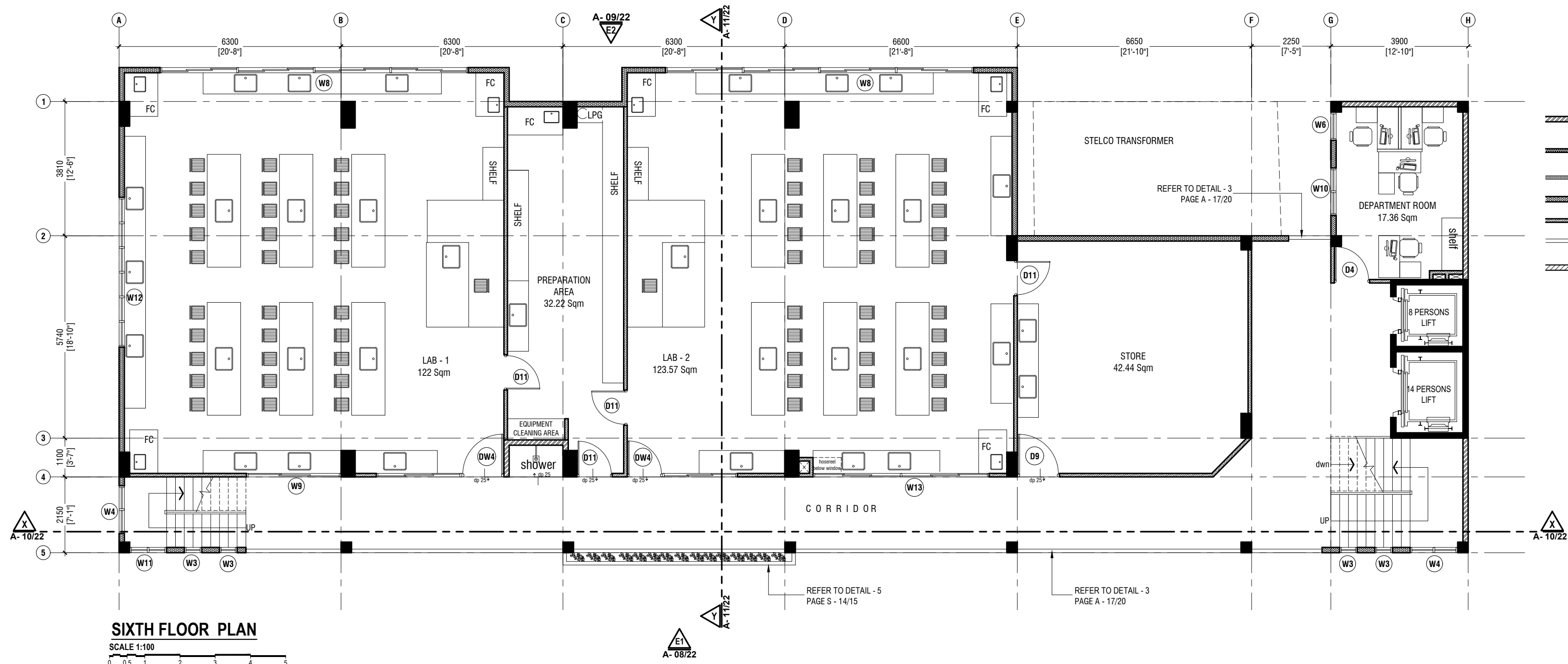
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T: +9603335249 F: +9603330776
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W: www.riyon.com.mv
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Title: Second & Third Floor Plan
Page: A- 04/22

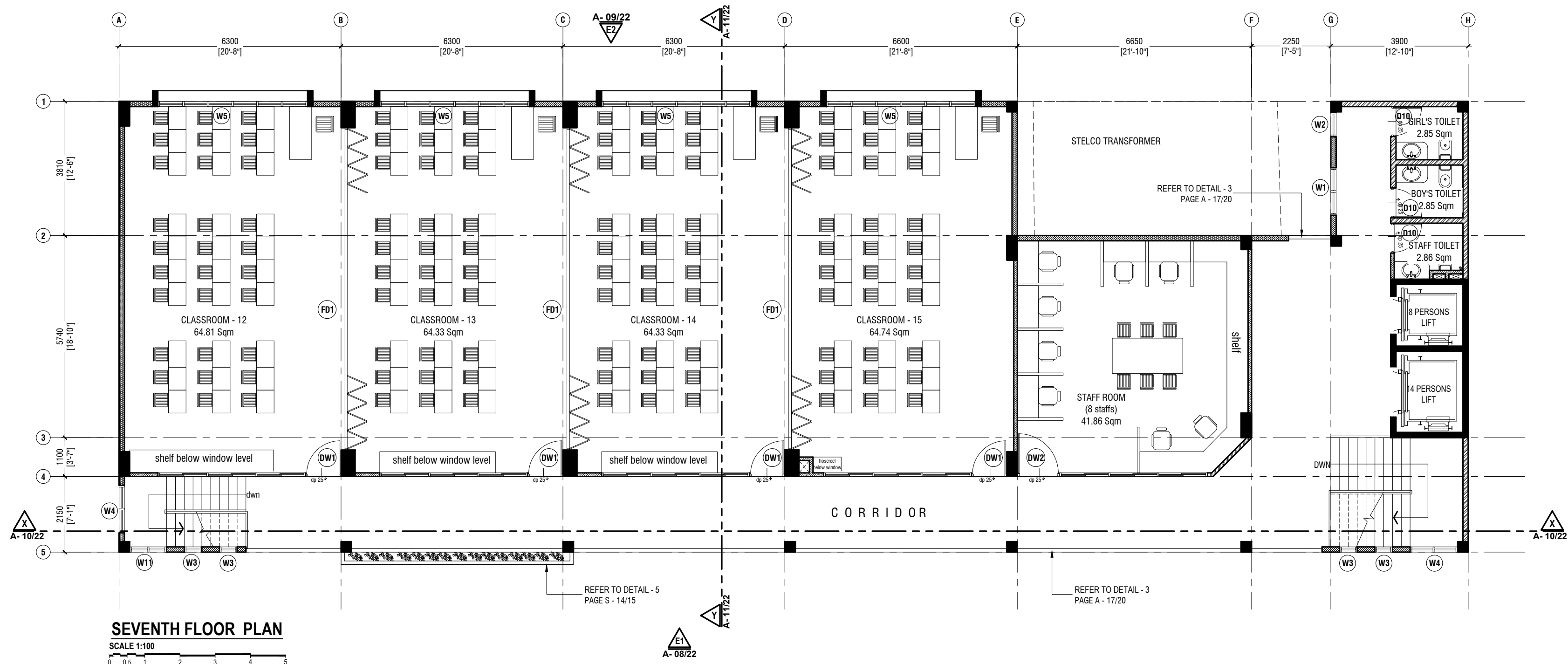
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SIXTH FLOOR PLAN

SCALE 1:100



SEVENTH FLOOR PLAN

SCALE 1:100

Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: R/2016/005

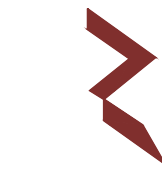
Architect: Fahimath Leena Jaleel

Engineer: Isran Wahed

Drawn by: Fahimath Leena Jaleel

Checked by: Aislinn Kavanagh

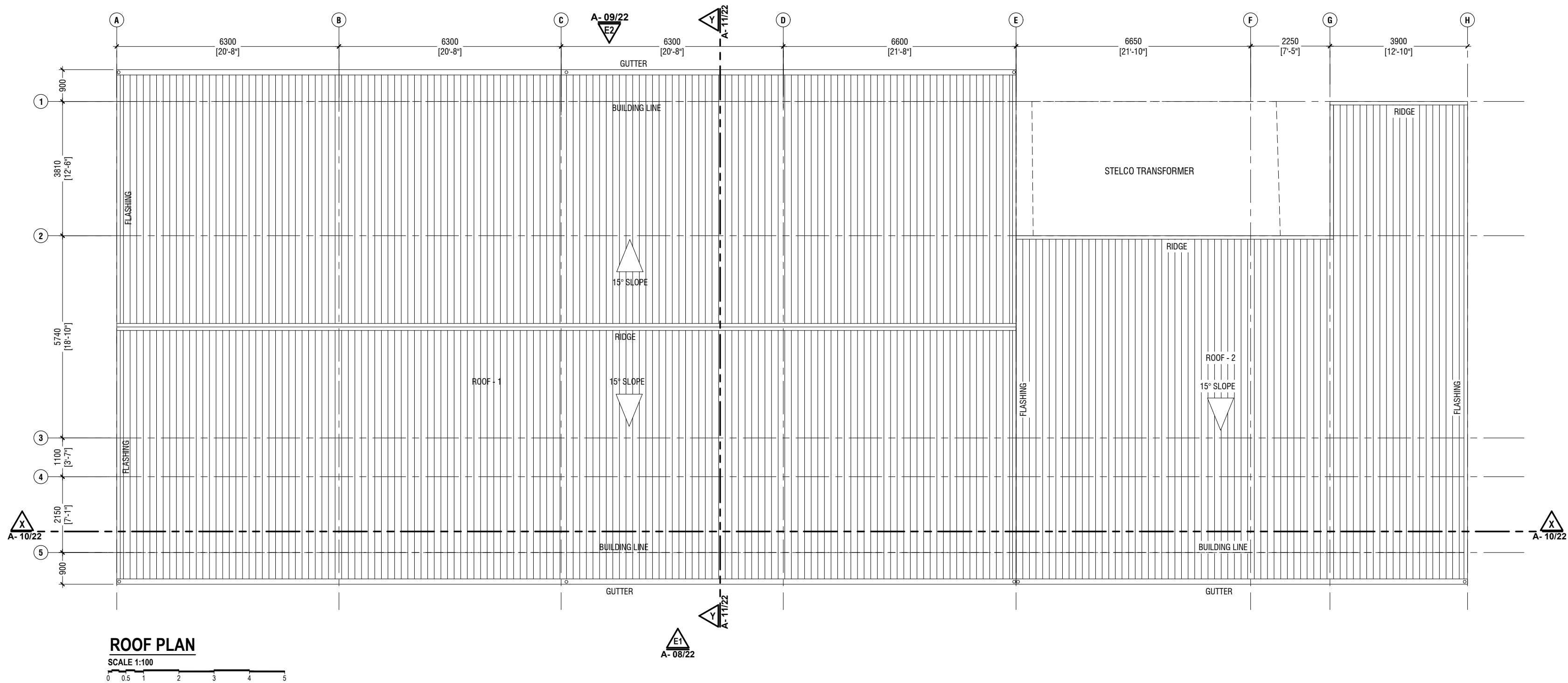
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E: info@rivan.com.mv
W: www.rivan.com.mv
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Title: Sixth & Seventh Floor
Plan
Page: A- 06/22



**Proposed Eight Storey Extension
At CHSE**

Client: Ministry Of Education

Project Number: RI/2016/005

Date: JULY 2019

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

Services: Alkhatir Alkhatir

Rev no

01

03/05/16

01

03/05/16

01



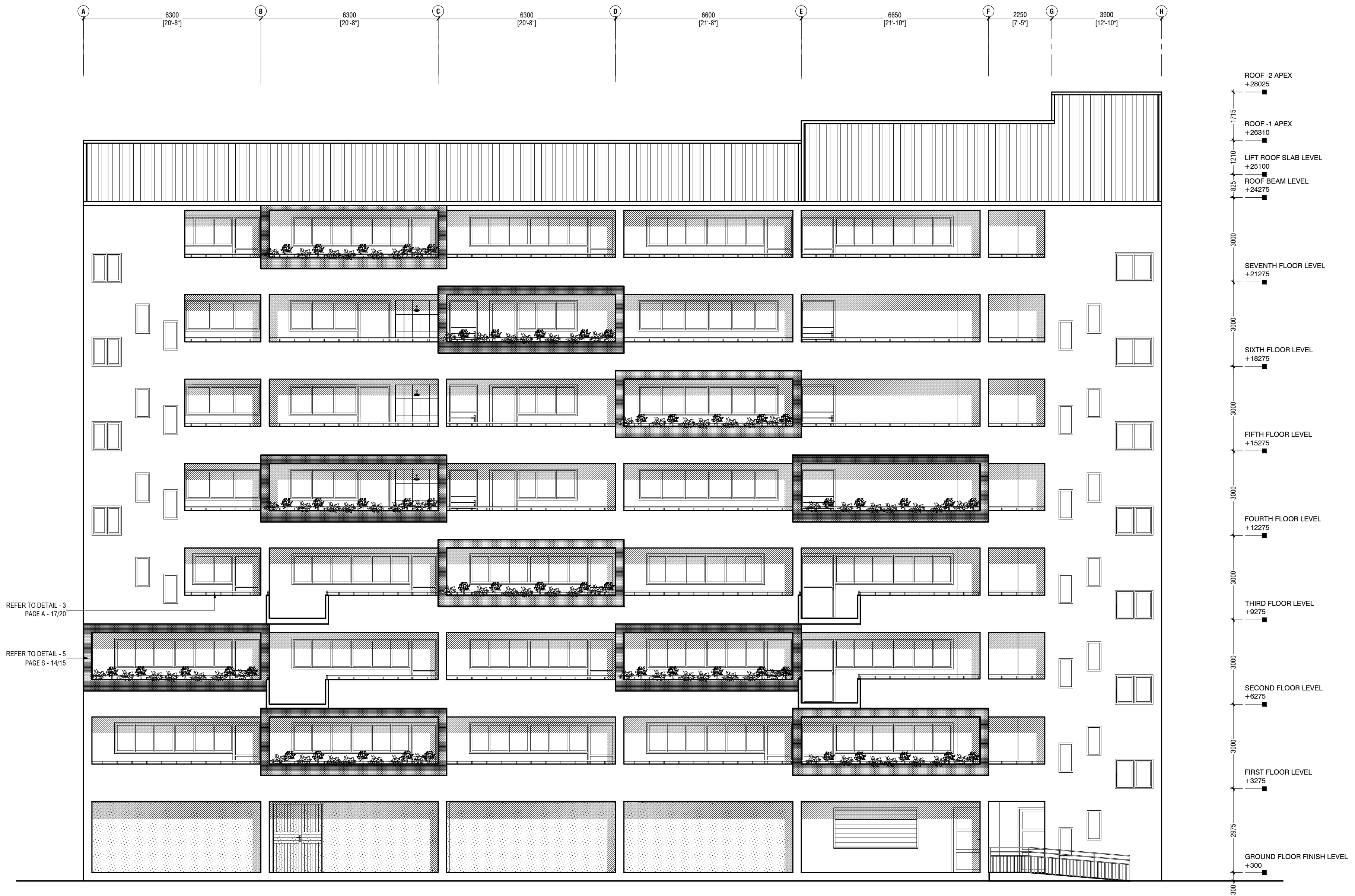
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Title: Roof Plan

Page: A- 07/22

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REFER TO DETAIL - 3
PAGE A - 17/20

REFER TO DETAIL - 5
PAGE S - 14/15

ROOF -2 APEX
+28025

ROOF -1 APEX
+26310

LIFT ROOF SLAB LEVEL
+25100

ROOF BEAM LEVEL
+24275

SEVENTH FLOOR LEVEL
+21275

SIXTH FLOOR LEVEL
+18275

FIFTH FLOOR LEVEL
+15275

FOURTH FLOOR LEVEL
+12275

THIRD FLOOR LEVEL
+9275

SECOND FLOOR LEVEL
+6275

FIRST FLOOR LEVEL
+3275

GROUND FLOOR FINISH LEVEL
+300

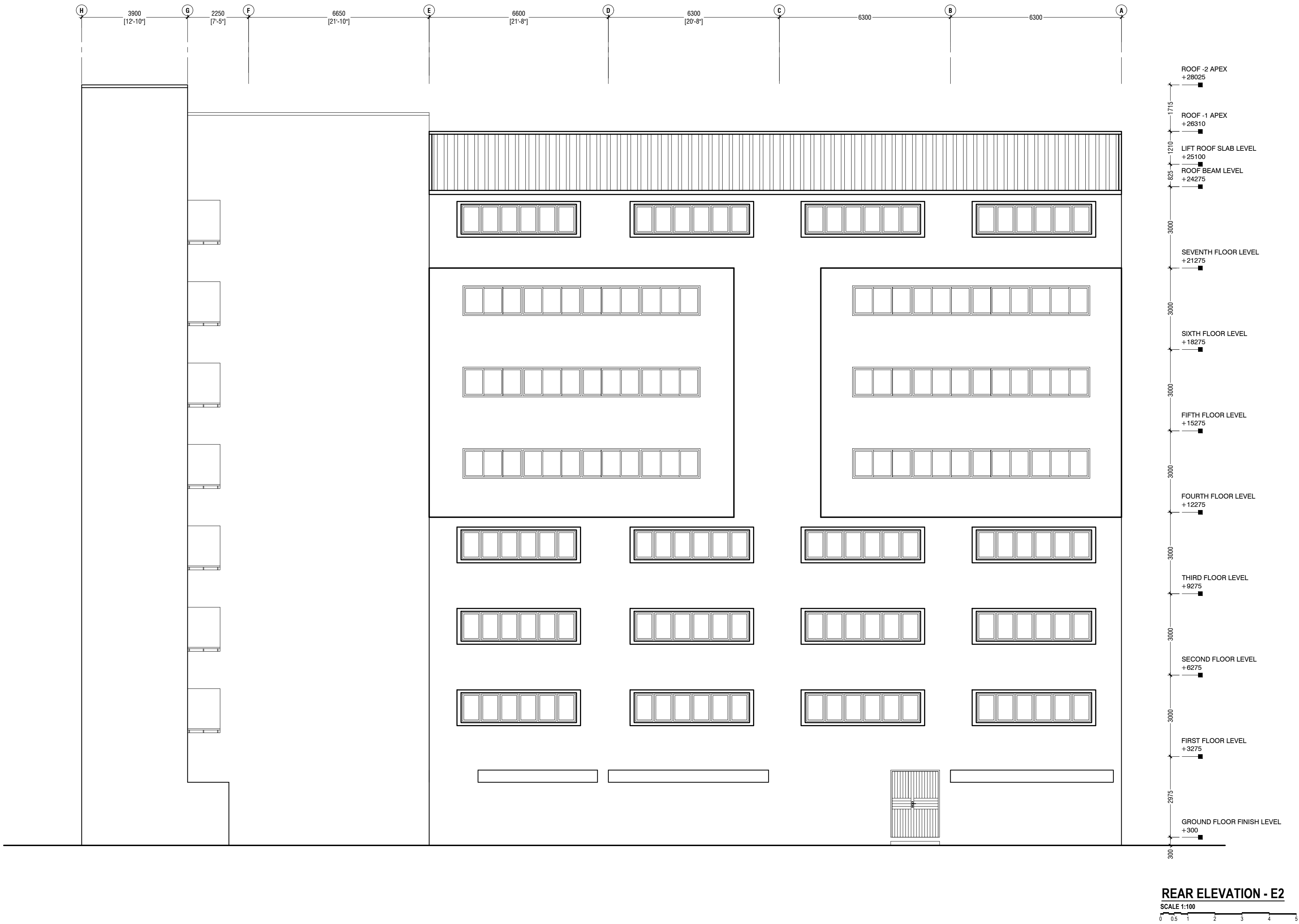
FRONT ELEVATION - E1
SCALE 1:100

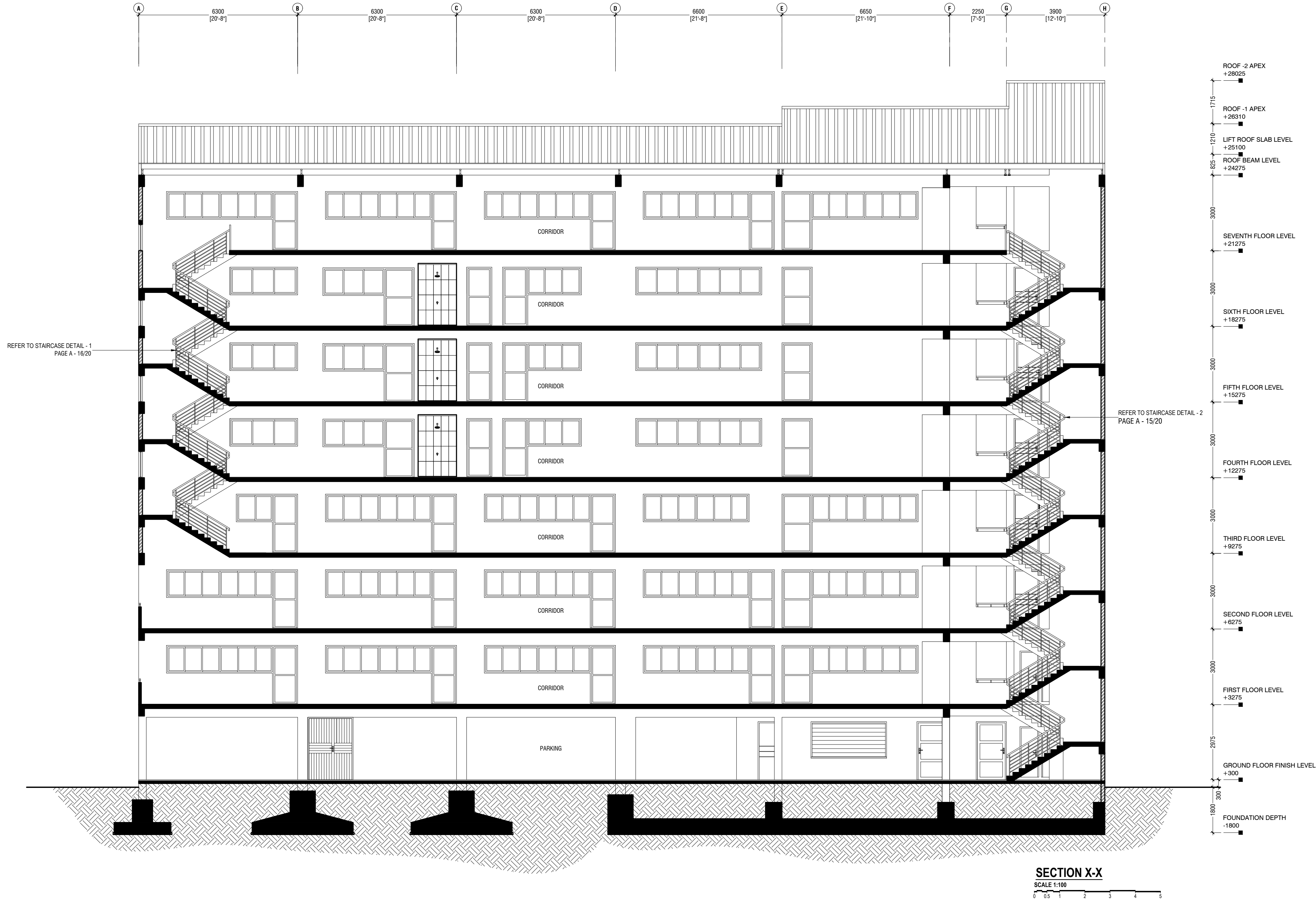
**Proposed Eight Storey Extension
At CHSE**
Client: Ministry Of Education

Project Number: R/2016/025
Date: JULY 2019
Architect: Fahimath Leena Jaleel
Engineer: Ihsan Wahneed
Drawn by: Fahimath Leena Jaleel
Services: Architectural
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3rd Floor, Al-Azhar, Amman, Amman, Amman, Msk

Title: Front Elevation - E1
Page: A- 08/22





Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: R/2016/005
Date: JULY 2019
Architect: Fahimath Leena Jaleel
Engineer: Fiaz Waheed
Drawn by: Fahimath Leena Jaleel
Checked by: Fiaz Waheed

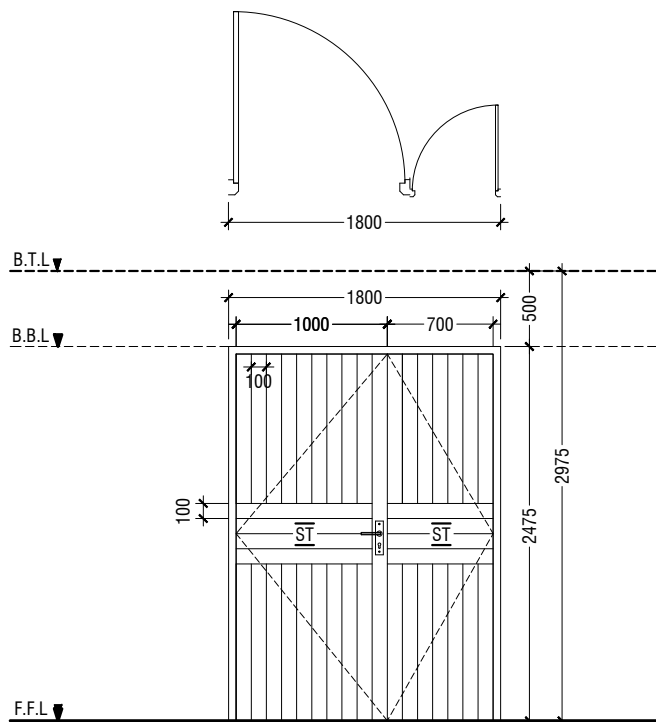


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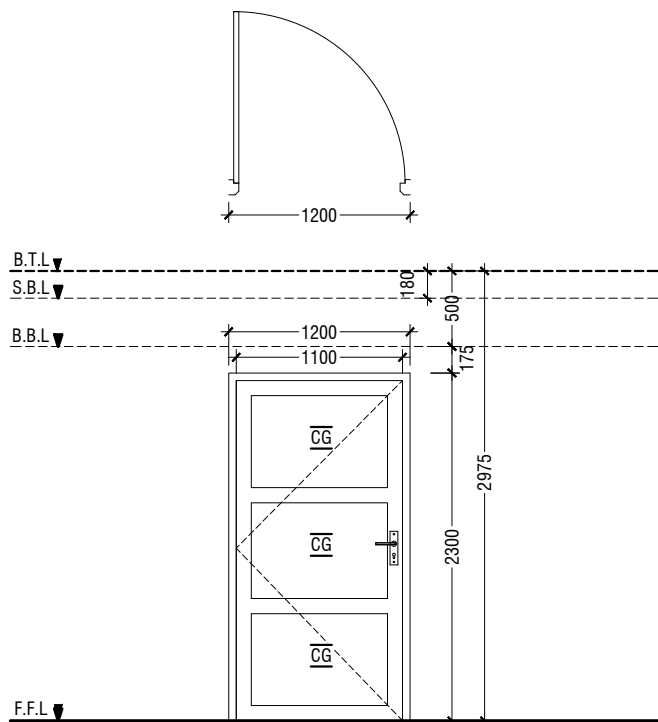
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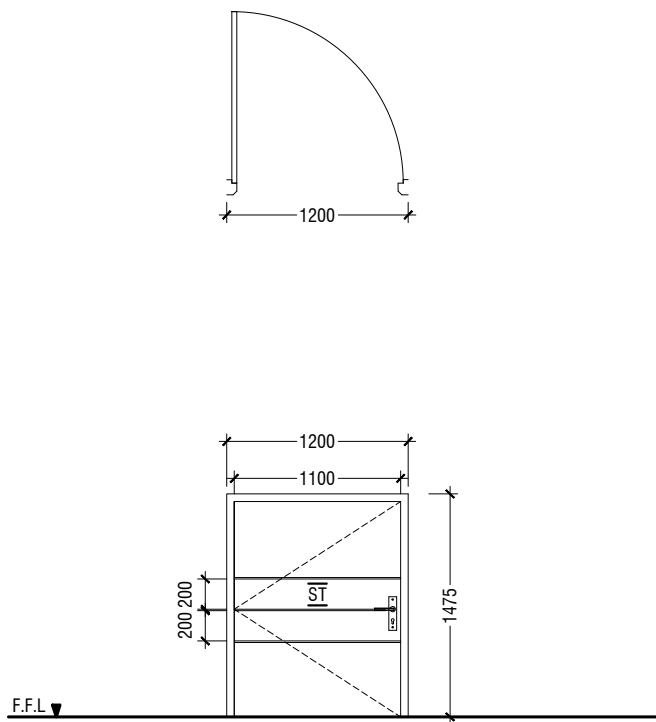




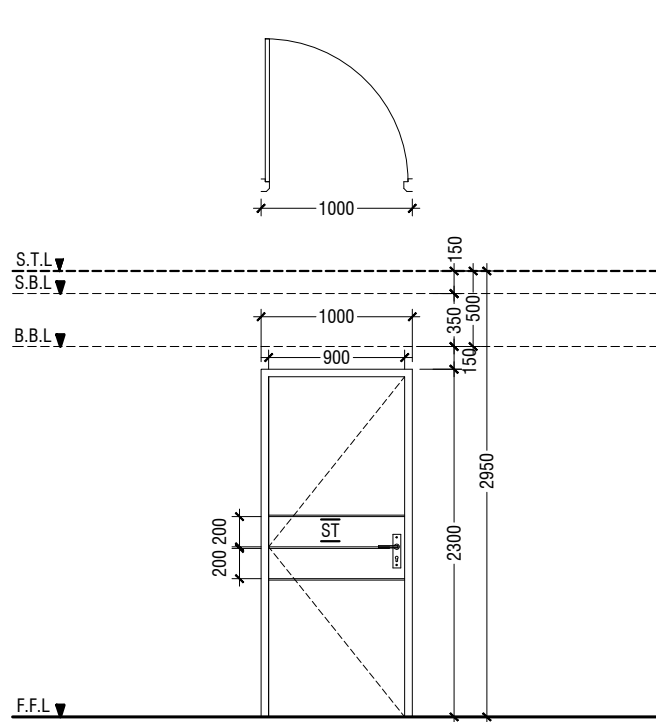
D1	SWING DOOR
REMARKS	TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL WITH WATERPROOF SOLID TIMBER PANEL WITH SECURITY SYSTEM
LOCATION	PARKING AREA
QUANTITY	01 NOS
OPEN AREA	4.12 sqm



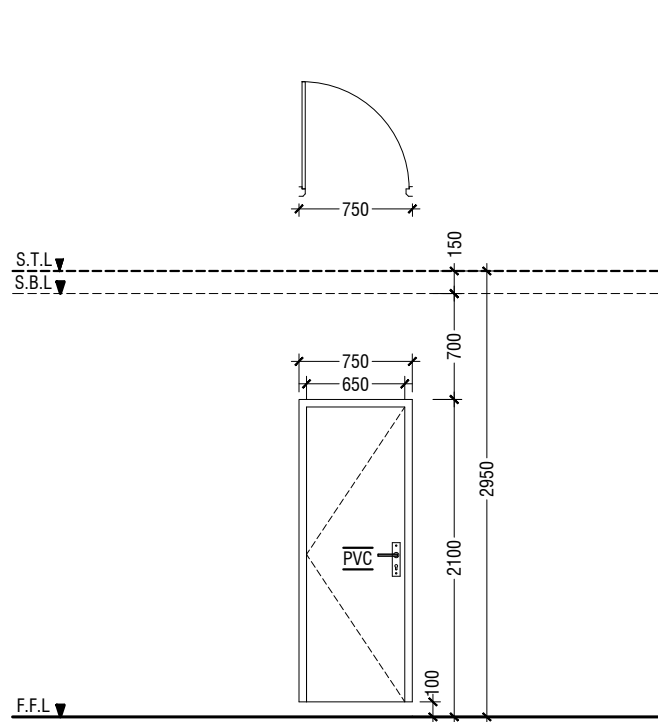
D2	SWING DOOR
REMARKS	50mm THK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH CLEAR GLASS
LOCATION	CANTEEN & VOID ENTRANCE
QUANTITY	02 NOS
OPEN AREA	2.47sqm



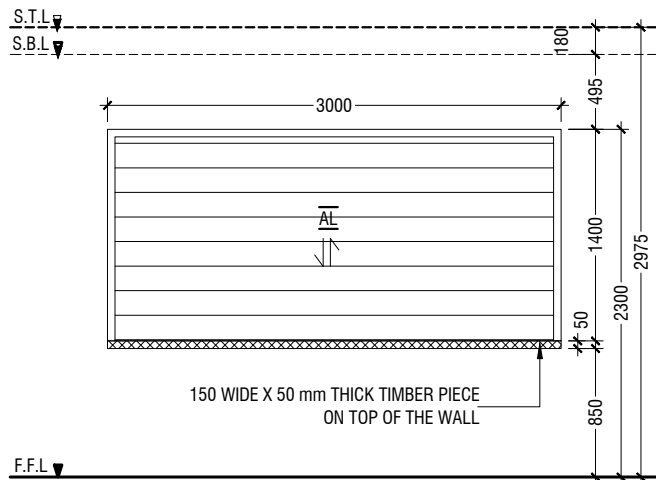
D3	SWING DOOR
REMARKS	TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL WITH WATERPROOF SOLID TIMBER PANEL WITH 10mm THICK GROVES AS SHOWN
LOCATION	SERVICES ROOM
QUANTITY	01 NOS
OPEN AREA	1.57sqm



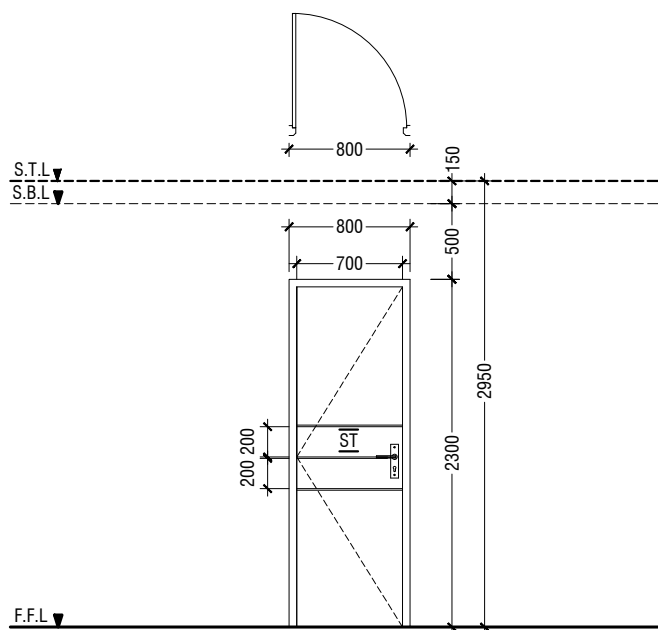
D4	SWING DOOR
REMARKS	TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL WITH WATERPROOF SOLID TIMBER PANEL WITH 10mm THICK GROVES AS SHOWN
LOCATION	DISABLE TOILET, GIRLS PRAYER ROOM, STAFF TOILET, DEPARTMENT ROOM, STORE
QUANTITY	07 NOS
OPEN AREA	2.03 sqm



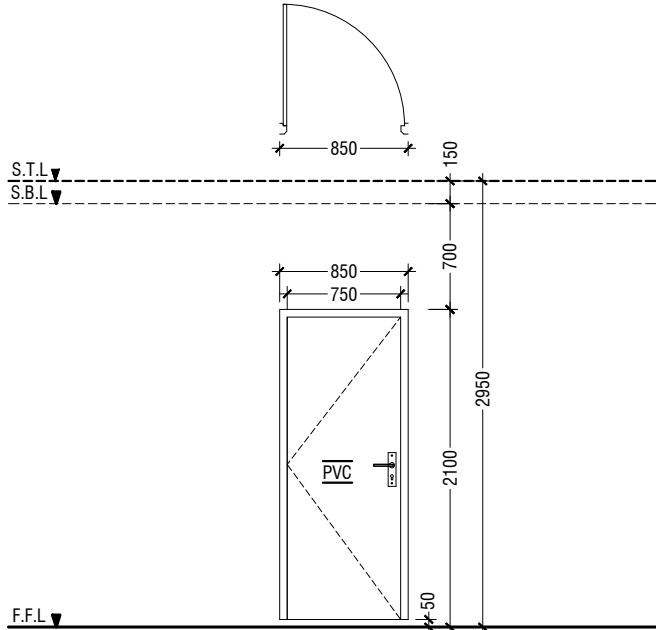
D5	SWING DOOR
REMARKS	PVC FRAME AND PANEL
LOCATION	TOILETS
QUANTITY	09 NOS
OPEN AREA	1.27 sqm



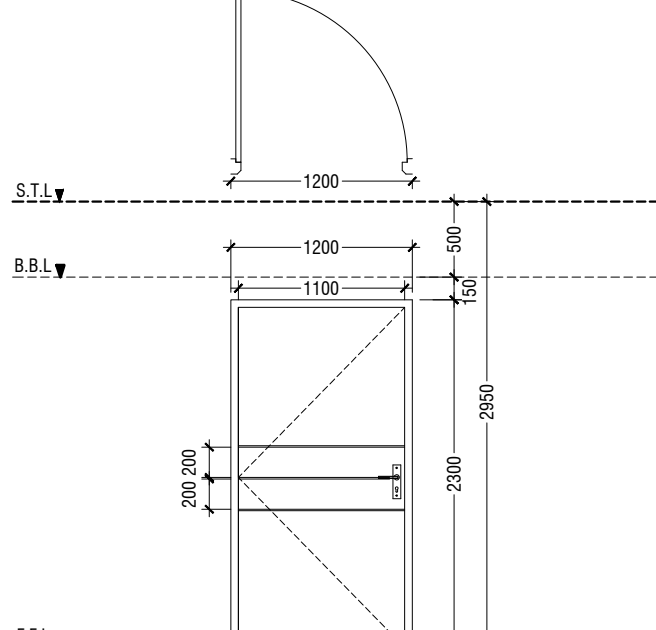
D6	ROLLER SHUTTER DOOR
REMARKS	TIMBER-TEXTURED POWDER COATED (60 MICRONS) ALUMINUM FRAMED ROLLER SHUTTER DOOR WITH MECHANICAL OPENING SYSTEM
LOCATION	CANTEEN
QUANTITY	01 NOS
OPEN AREA	3.92 sqm



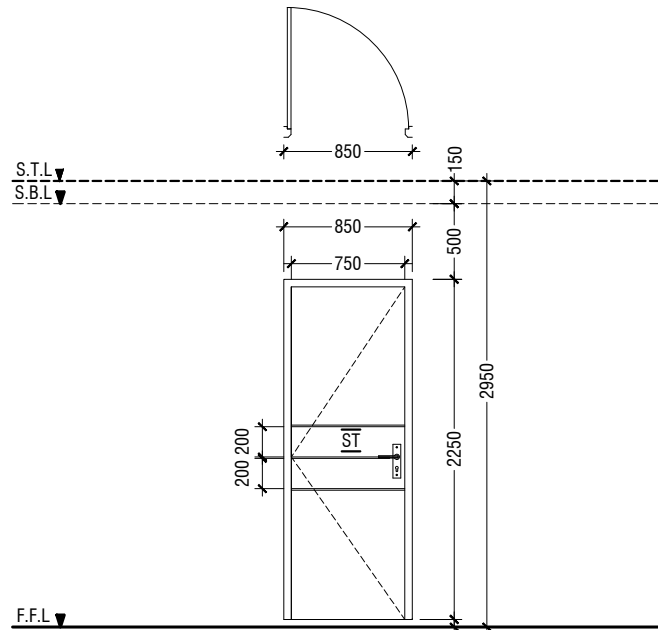
D7	SWING DOOR
REMARKS	TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL WITH WATERPROOF SOLID TIMBER PANEL WITH 10mm THICK GROVES AS SHOWN
LOCATION	GIRL'S PRAYER ROOM, STORE
QUANTITY	03 NOS
OPEN AREA	1.58 sqm



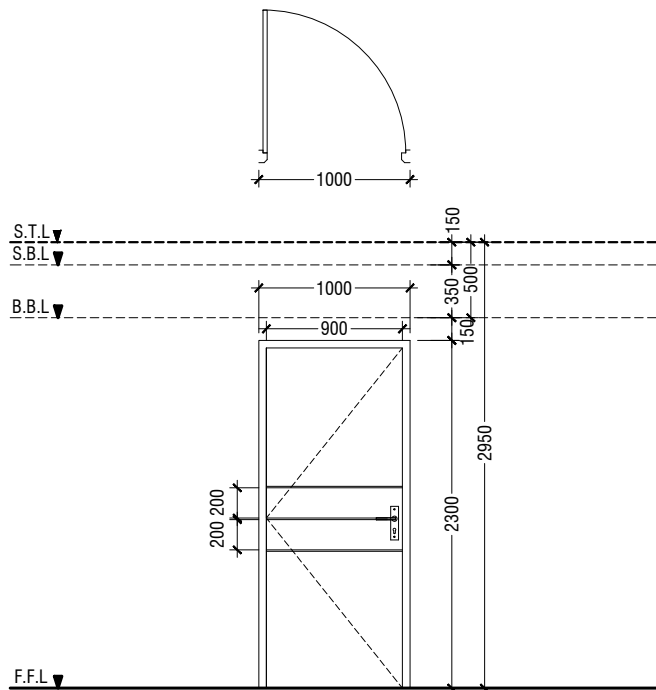
D8	SWING DOOR
REMARKS	PVC FRAME AND PANEL
LOCATION	TOILET
QUANTITY	01 NOS
OPEN AREA	1.5 sqm



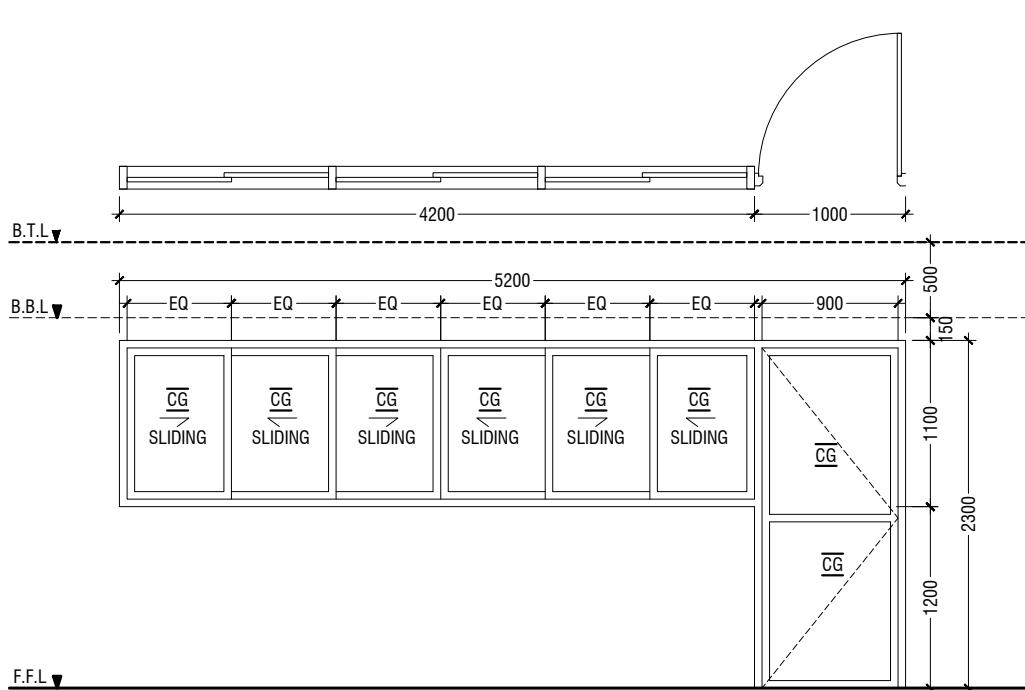
D9	SWING DOOR
REMARKS	FIRE RATED DOOR
LOCATION	STORE
QUANTITY	03 NOS
OPEN AREA	2.48 sqm



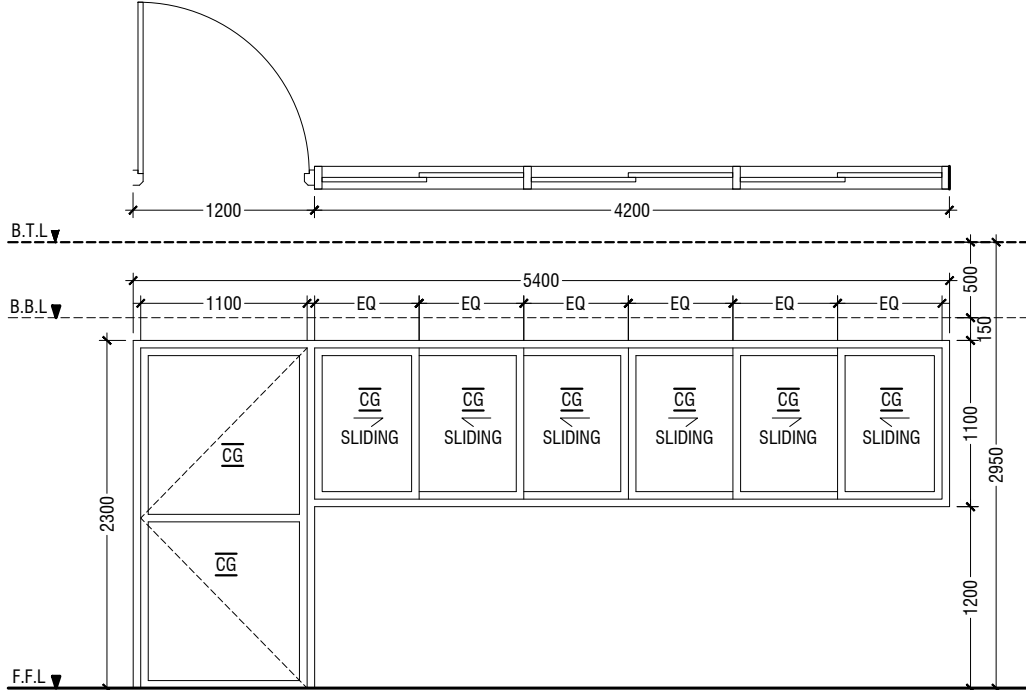
D10	SWING DOOR
REMARKS	TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL WITH WATERPROOF SOLID TIMBER PANEL WITH 10mm THICK GROVES AS SHOWN
LOCATION	GIRL'S TOILET, BOY'S TOILET & STAFF TOILET
QUANTITY	03 NOS
OPEN AREA	1.65 sqm



D11	SWING DOOR
REMARKS	ONE HOUR FIRE RATED DOOR
LOCATION	PREPARATION AREA
QUANTITY	12 NOS
OPEN AREA	2.03 sqm



DW1	SWING DOOR & SLIDING WINDOW
REMARKS	50mm THK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	14 NOS
OPEN AREA	4.07sqm



DW2	SWING DOOR & SLIDING WINDOW
REMARKS	50mm THK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH CLEAR GLASS
LOCATION	STAFFROOM
QUANTITY	04 NOS
OPEN AREA	5.25 sqm

LEGEND:-
CG - CLEAR GLASS
FCG - FIXED CLEAR GLASS
FG - FROSTED GLASS
RG - REFLECTED GLASS
ST - SOLID TIMBER
PVC - POLYVINYL CHLORIDE
FRG - FIXED REFLECTED GLASS

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

Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: RU/2016/005

Architect: Fahimath Leena Jaleel

Engineer: Irfan Waheed

Drawn by: Fahimath Leena Jaleel

Checked by: Irfan Waheed



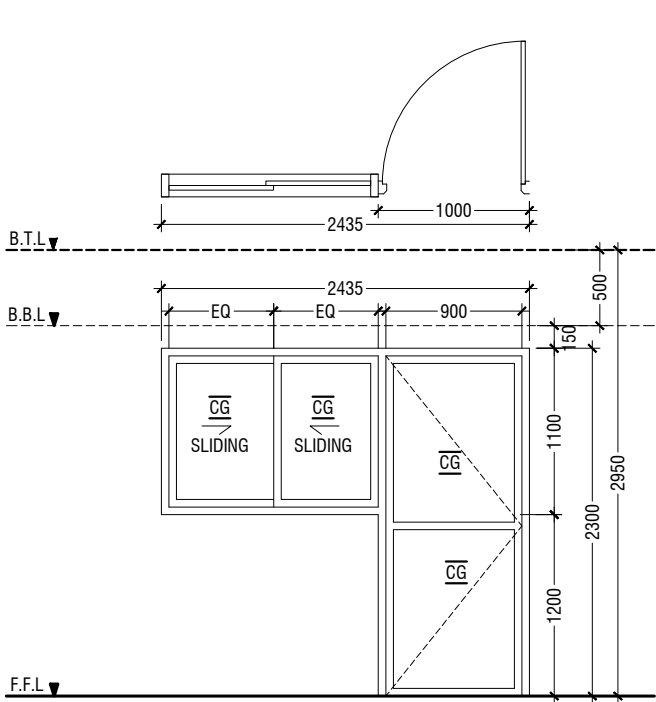
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3rd floor, H. Azum, Armeanemmagu, Male'

Title: Door & Window

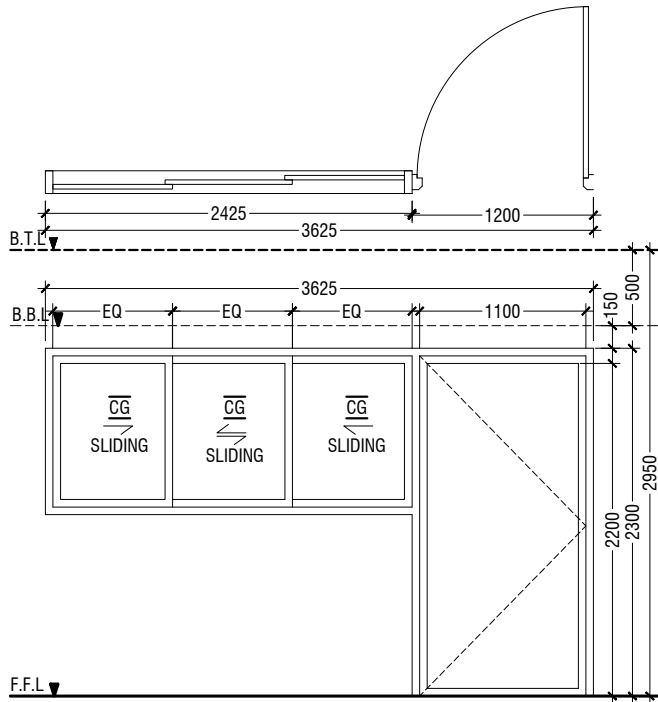
Schedule - 1

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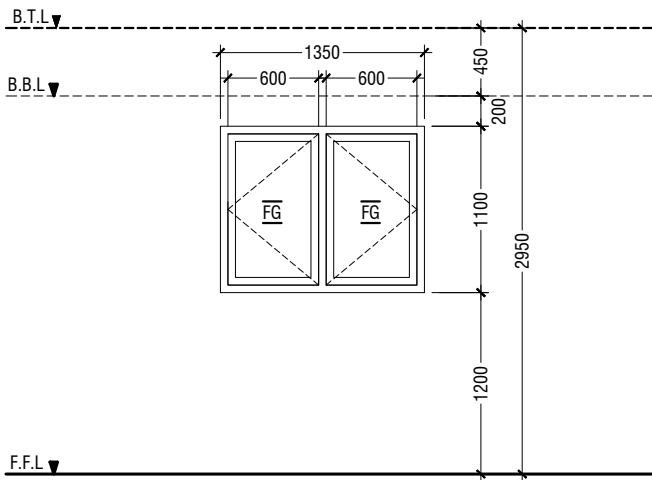
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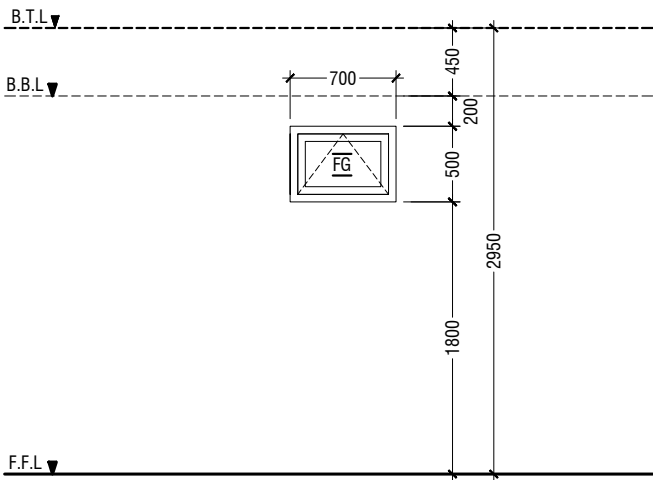
(DW3)	SWING DOOR & SLIDING WINDOW
REMARKS	50mm THK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	01 NOS
OPEN AREA	2.72 sqm



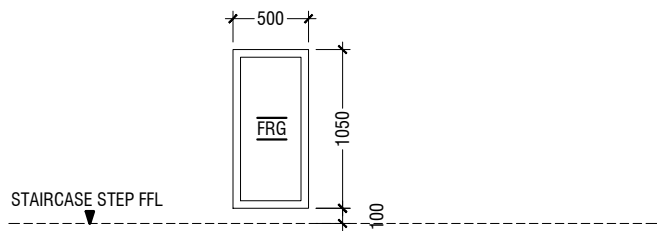
(DW4)	SWING DOOR & SLIDING WINDOW
REMARKS	ONE HOUR FIRE RATED DOOR & WINDOWS
LOCATION	LABORATORIES
QUANTITY	06 NOS
OPEN AREA	4.06 sqm



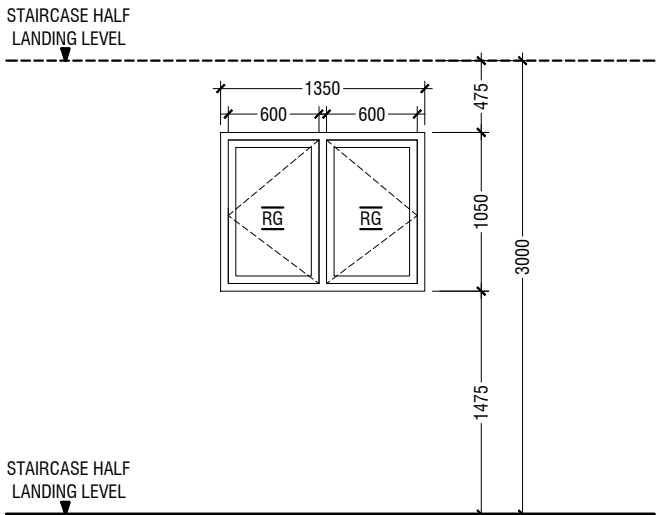
(W1)	SWING WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH FROSTED GLASS
LOCATION	TOILETS
QUANTITY	04 NOS
OPEN AREA	1.2 sqm



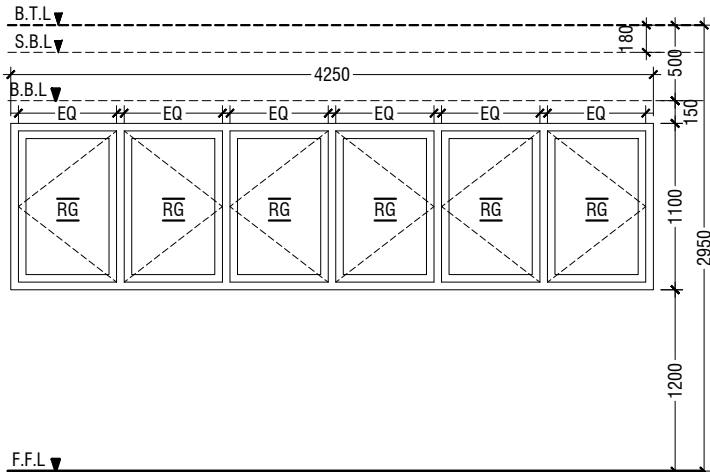
(W2)	TOP HUNG WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH FROSTED GLASS
LOCATION	TOILETS
QUANTITY	04 NOS
OPEN AREA	0.24 sqm



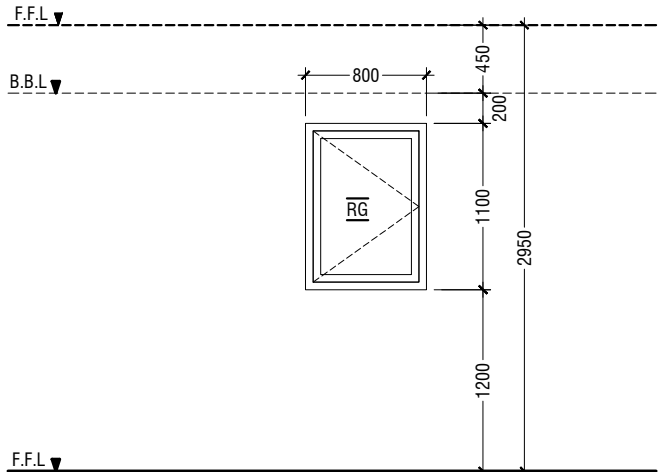
(W3)	FIXED WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH FIXED REFLECTIVE GLASS
LOCATION	NEAR STAIRCASE
QUANTITY	22 NOS
OPEN AREA	0.00 sqm



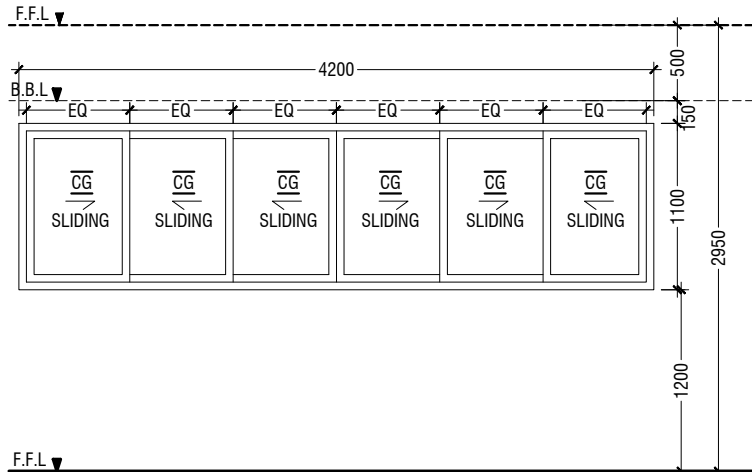
(W4)	SWING WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH REFLECTIVE GLASS
LOCATION	NEAR STAIRCASE
QUANTITY	11 NOS
OPEN AREA	1.14 sqm



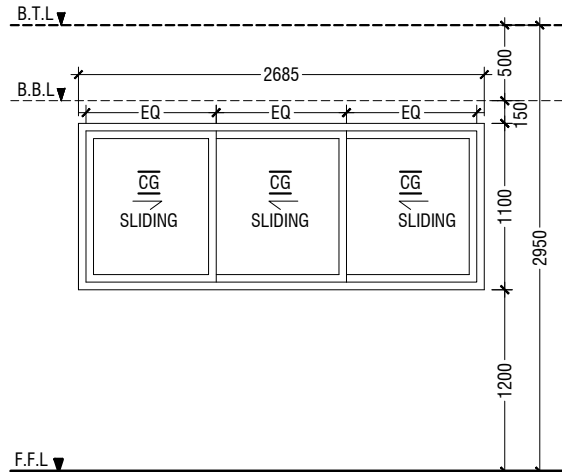
(W5)	SWING WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH REFLECTIVE GLASS
LOCATION	CLASSROOMS
QUANTITY	16 NOS
OPEN AREA	3.9 sqm



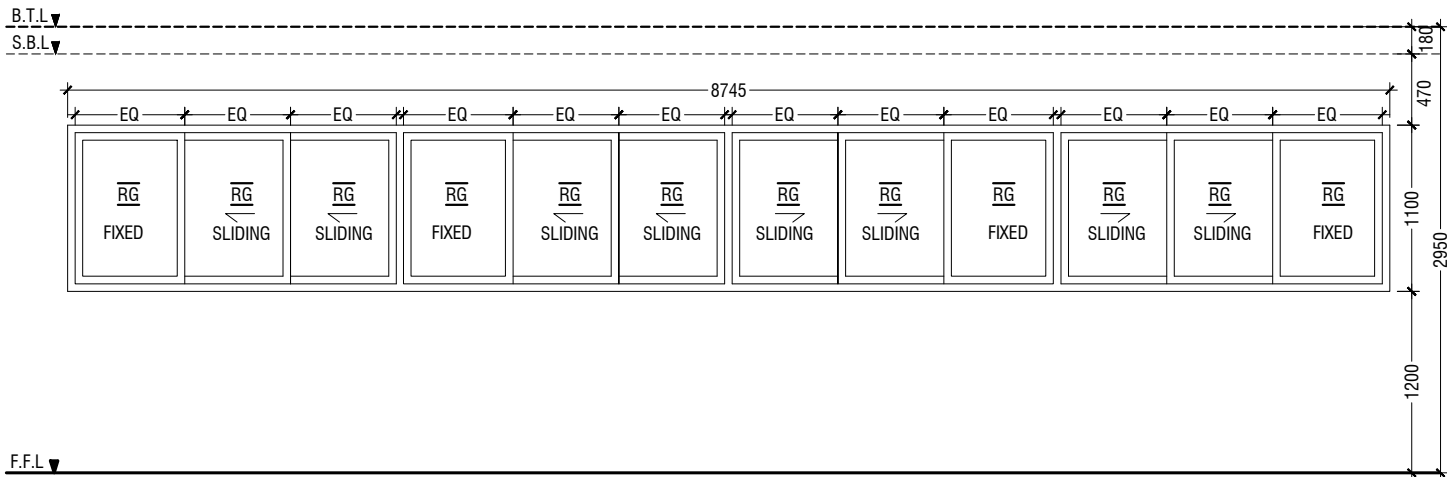
(W6)	SWING WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH REFLECTIVE GLASS
LOCATION	GIRLS PRAYER ROOM & STORE
QUANTITY	06 NOS
OPEN AREA	0.7 sqm



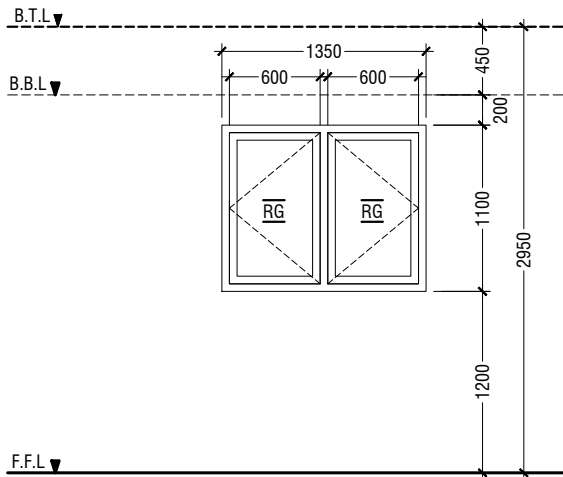
(W7)	SLIDING WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	01 NOS
OPEN AREA	2.73 sqm



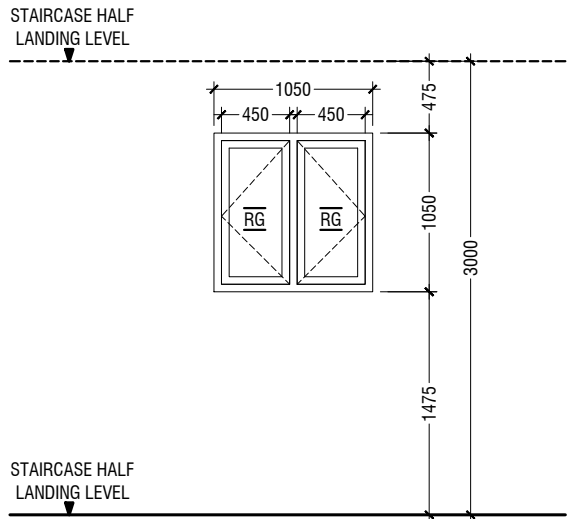
(W9)	SLIDING WINDOW
REMARKS	ONE HOUR FIRE RATED WINDOWS SAFETY IRON BARS TO BE FIXED INSIDE THE WINDOW
LOCATION	LABORATORIES
QUANTITY	03 NOS
OPEN AREA	1.72 sqm



(W8)	SWING WINDOW
REMARKS	ONE HOUR FIRE RATED WINDOWS SAFETY IRON BARS TO BE FIXED INSIDE THE WINDOW
LOCATION	LABORATORIES
QUANTITY	06 NOS
OPEN AREA	5.6 sqm



(W10)	SWING WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH REFLECTIVE GLASS
LOCATION	DEPARTMENT ROOM
QUANTITY	02 NOS
OPEN AREA	1.2 sqm

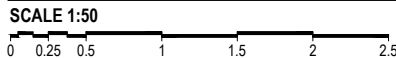


(W11)	SWING WINDOW
REMARKS	50mm THICK POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH REFLECTIVE GLASS
LOCATION	NEAR STAIRCASE
QUANTITY	04 NOS
OPEN AREA	0.86 sqm

LEGEND:-
CG - CLEAR GLASS
FCG - FIXED CLEAR GLASS
FG - FROSTED GLASS
RG - REFLECTED GLASS
ST - SOLID TIMBER
PVC - POLYVINYL CHLORIDE
FRG - FIXED REFLECTED GLASS

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 - 2



Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education
Project Number: RI/2016/005
Date: JULY 2019

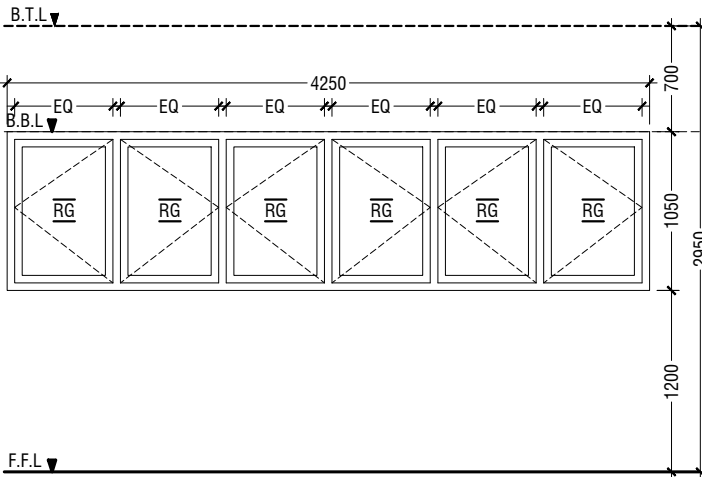
Architect: Fatimah Leena Jaleel
Engineer: Irfan Waheed
Services: Aljabir Ahmed



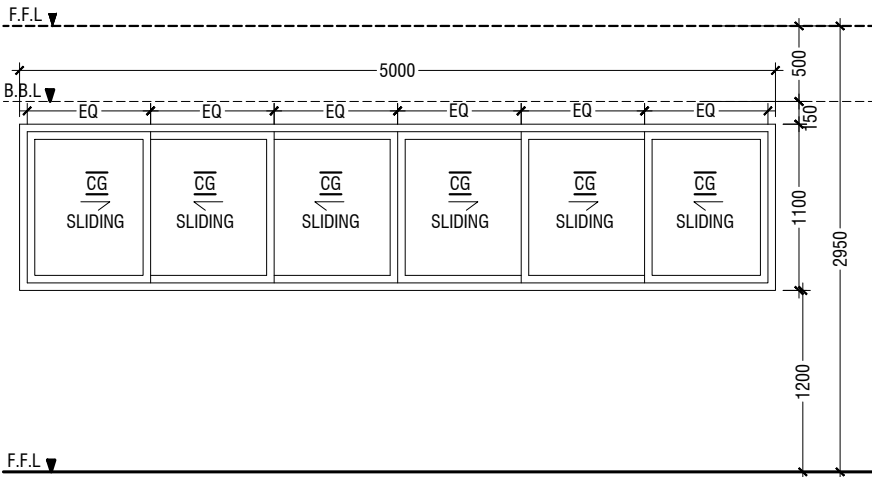
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Title: Door & Window
Schedule - 2
Page: A- 13 / 22

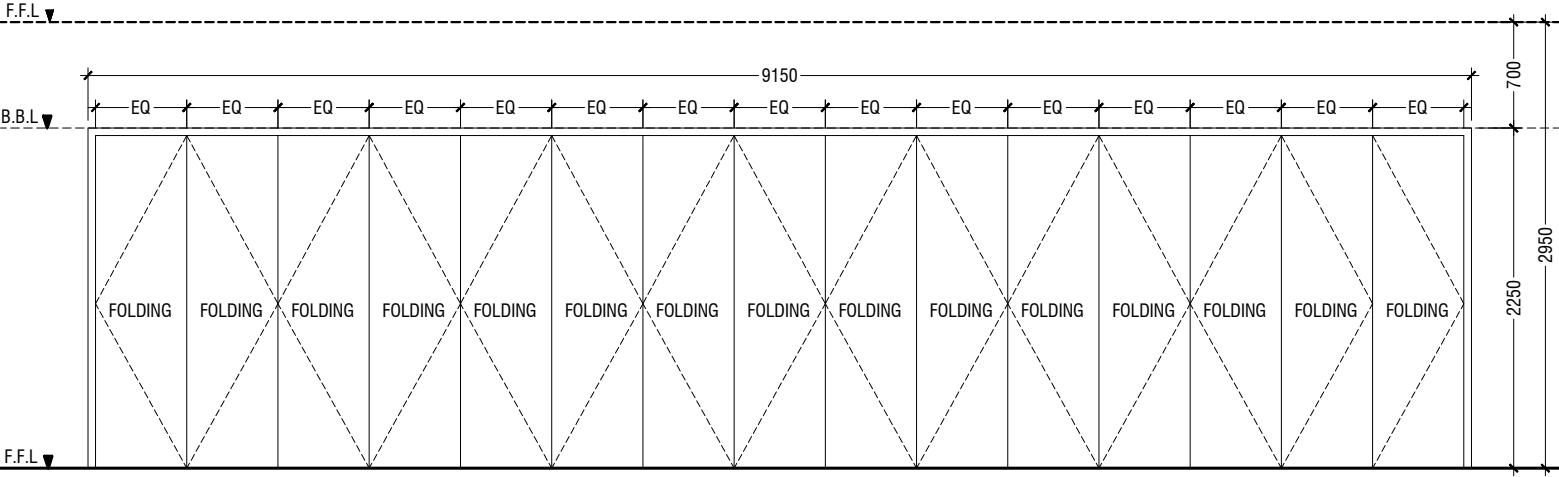
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(W12)	SWING WINDOW
REMARKS	ONE HOUR FIRE RATED WINDOWS SAFETY IRON BARS TO BE FIXED INSIDE THE WINDOW
LOCATION	LABORATORIES
QUANTITY	03 NOS
OPEN AREA	3.7 sqm



(W13)	SLIDING WINDOW
REMARKS	ONE HOUR FIRE RATED WINDOWS SAFETY IRON BARS TO BE FIXED INSIDE THE WINDOW
LOCATION	LABORATORIES
QUANTITY	03 NOS
OPEN AREA	3.27 sqm

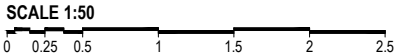


(FD1)	FOLDING & SLIDING DOOR
REMARKS	- ONE HOUR FIRE RATED FOLDING DOORS - SOUND INSULATION MINIMUM 52db - SLIDING FOLDING TOP HUNG TRACK SYSTEM - ALL HARDWARE TO BE FINISHED IN NATURAL ANODIZED ALUMINIUM OR STAINLESS STEEL
LOCATION	CLASSROOM 12,13,14 & 15
QUANTITY	03 NOS
OPEN AREA	19.91sqm

LEGEND:-
CG - CLEAR GLASS
FCG - FIXED CLEAR GLASS
FG - FROSTED GLASS
RG - REFLECTED GLASS
ST - SOLID TIMBER
PVC - POLYVINYL CHLORIDE
FRG - FIXED REFLECTED GLASS

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 - 3



	ROOM NAME/ NUMBER	ROOM AREA(sq m) (specify centre to centre or clear)	WINDOW (opening) NUMBER	REQUIRED OPENING AREA (sq m)	DESIGNED OPEN AREA (sq m)	OPEN %
	Ground floor					
1	Canteen	26.09	D6	2.609	3.92	15.0%
2	Girl's toilet	10.57	W1 & W2	1.057	1.44	13.6%
3	Disable toilet	3.18		MECHANICAL VENTILATION		
4	Services room	5.28		MECHANICAL VENTILATION		
5	Parking	318.37		MECHANICAL VENTILATION		
	First Floor					
1	Classroom - 1	63.78	DW1 & W5	6.378	7.97	12.5%
2	Classroom - 2 & 3	64.10	DW1 & W5	6.41	7.97	12.4%
3	Classroom - 4	65.54	DW1 & W5	6.554	7.97	12.2%
4	Staff room	42.44	DW2	4.244	5.25	12.4%
5	Boy's toilet	11.74	W1 & W2	1.174	1.44	12.3%
6	Store	3.18		MECHANICAL VENTILATION		
	Second Floor					
1	Classroom - 5	63.78	DW1 & W5	6.378	7.97	12.5%
2	Classroom - 6 & 7	64.10	DW1 & W5	6.41	7.97	12.4%
3	Classroom - 8	65.54	DW1 & W5	6.554	7.97	12.2%
4	Staff room	42.44	DW2	4.244	5.25	12.4%
5	Girl's toilet	2.40		MECHANICAL VENTILATION		
6	Girl's prayer room	12.05	2W6	1.205	1.4	11.6%
	Third Floor					
1	Classroom - 9	63.78	DW3 & W5	6.378	6.62	10.4%
2	Classroom - 10 & 11	64.10	DW1 & W5	6.41	7.97	12.4%
3	Staff room	108.52	DW2,W7 & W5	10.852	11.88	10.9%
4	Staff toilet	13.13	W1 & W2	1.313	1.44	11.0%
5	Store	1.83		MECHANICAL VENTILATION		
	Fourth & Sixth Floor					
1	Lab - 1	122.00	DW4,W8 & W9,W12	12.2	15.08	12.4%
2	Lab - 2	123.75	DW4, W8, & W13	12.375	12.93	10.4%
3	Store	42.44		MECHANICAL VENTILATION		
4	Department room	17.36	W6 & W10	1.736	1.9	10.9%
5	Preparation Area	32.22		MECHANICAL VENTILATION		
	Fifth Floor					
1	Lab - 5	122.00	DW4,W8, W9 & W12	12.2	15.08	12.4%
2	Lab - 6	123.57	DW4, W8, & W13	12.357	12.93	10.5%
3	Preparation Area	32.22		MECHANICAL VENTILATION		
4	Store - 1	42.44		MECHANICAL VENTILATION		
5	Store - 2	12.43	2W6	1.243	1.4	11.3%
6	Toilet	2.82		MECHANICAL VENTILATION		
	Seventh Floor					
1	Classroom - 12	64.81	DW1 & W5	6.481	7.97	12.3%
2	Classroom - 13 & 14	64.33	DW1 & W5	6.433	7.97	12.4%
3	Classroom - 15	64.74	DW1 & W5	6.474	7.97	12.3%
4	Staff room	41.86	DW2	4.186	5.25	12.5%
5	Staff toilet	2.86		MECHANICAL VENTILATION		
6	Boy's toilet	2.85		MECHANICAL VENTILATION		
7	Girl's toilet	2.85		MECHANICAL VENTILATION		

Note:- For all the classrooms and laboratories mechanical ventilation to be provided using exhaust. For detail refer to M&E drawings

VENTILATION SCHEDULE

NOT TO SCALE

Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: RI/2016/005

Date: JULY 2019

Architect: Fathimath Leena Jaleel

Engineer: Iqbal Wahid

Drawn by: Iqbal Wahid

Checked by: Iqbal Wahid

Signed: Iqbal Wahid

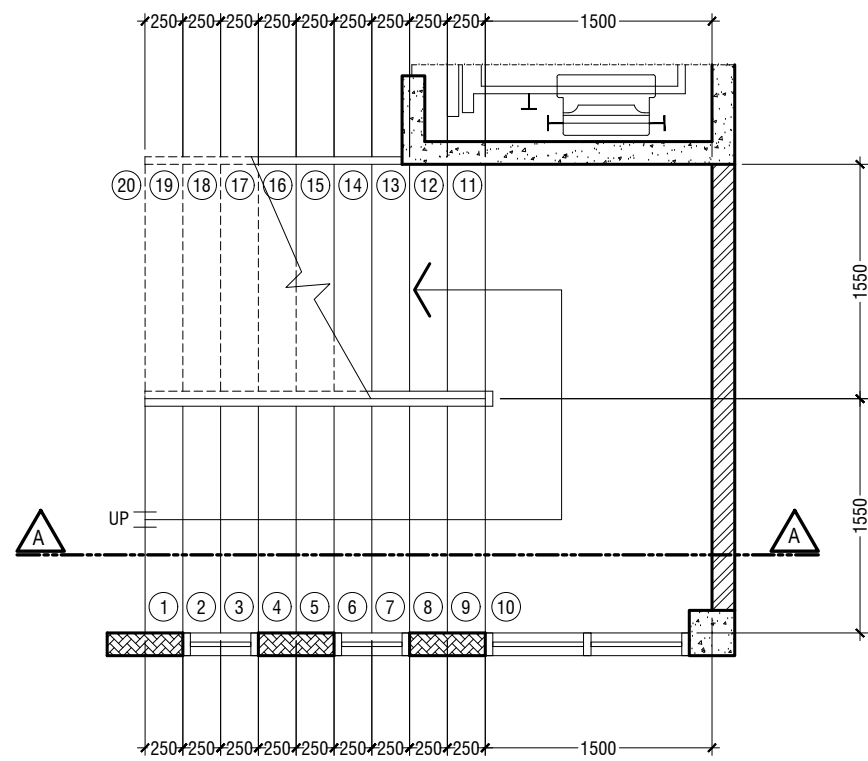


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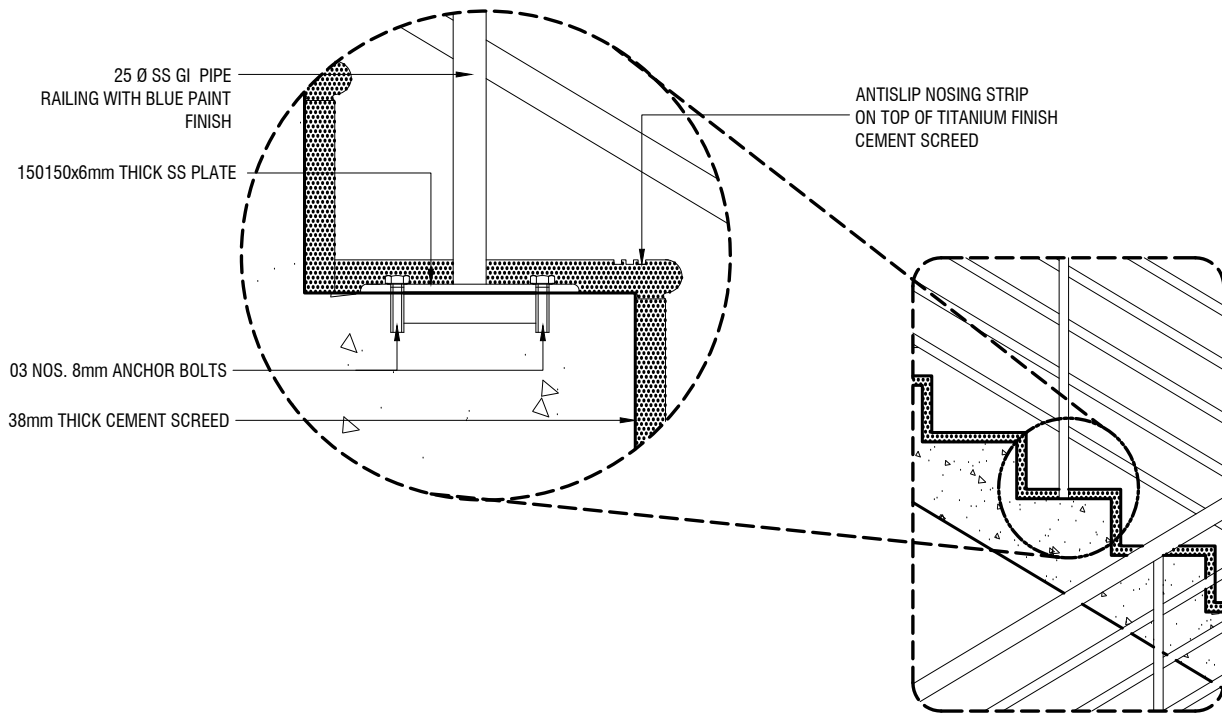
Door & Window
Title: Schedule - 3 &
Ventilation schedule
Page: A- 14 / 22

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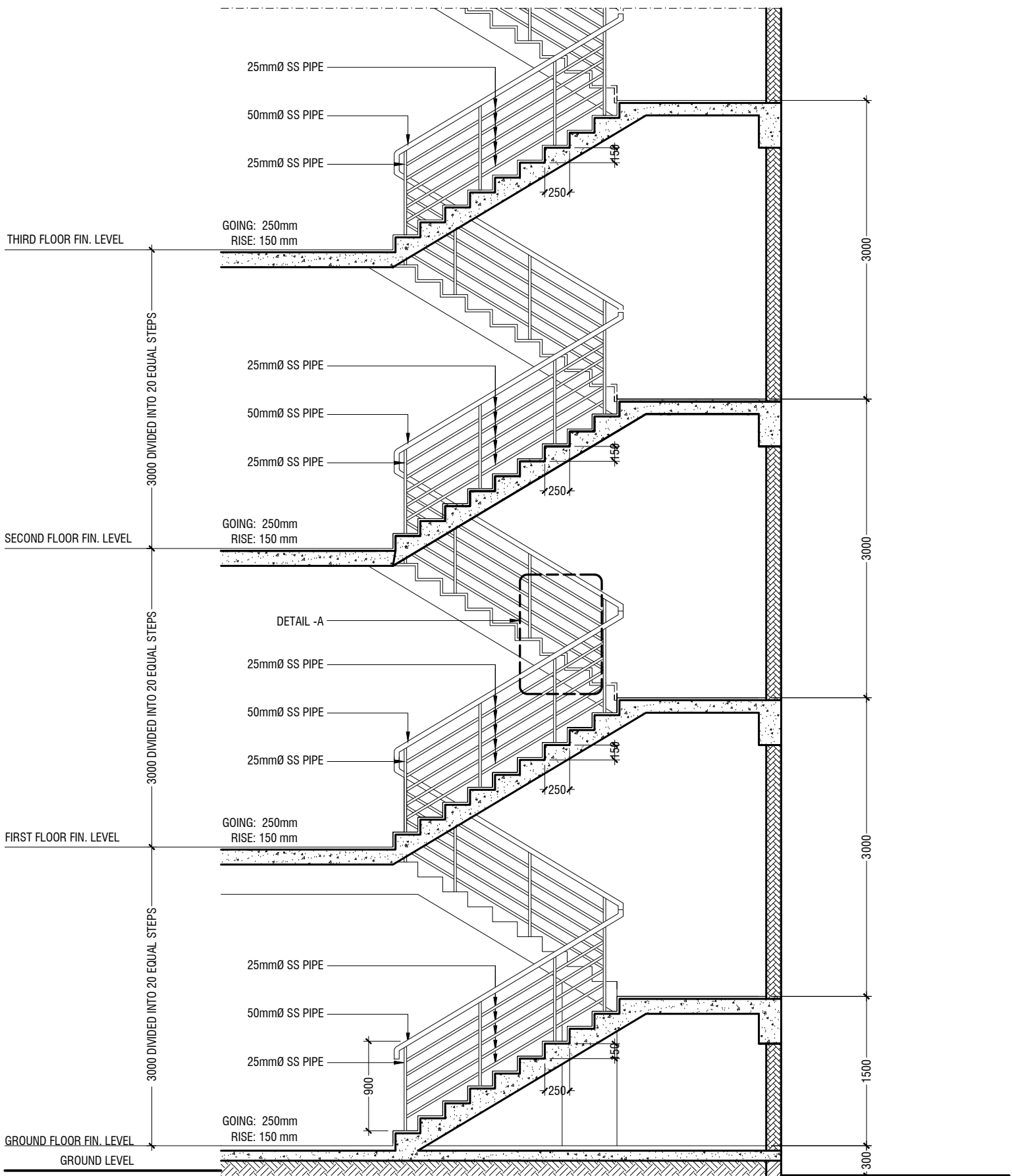
GROUND TO SEVENTH FLOOR PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



DETAIL - A

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1



SECTION A - A

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

DETAIL - 1 (MAIN STAIRCASE)

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

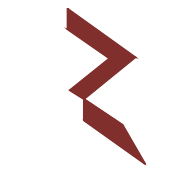
Project Number: RU/2016/005

Architect: Fathimath Leena Jaleel

Engineer: Fathimath Leena Jaleel

Drawn by: Fathimath Leena Jaleel

Checked by: Fathimath Leena Jaleel



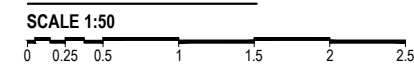
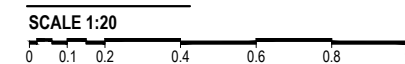
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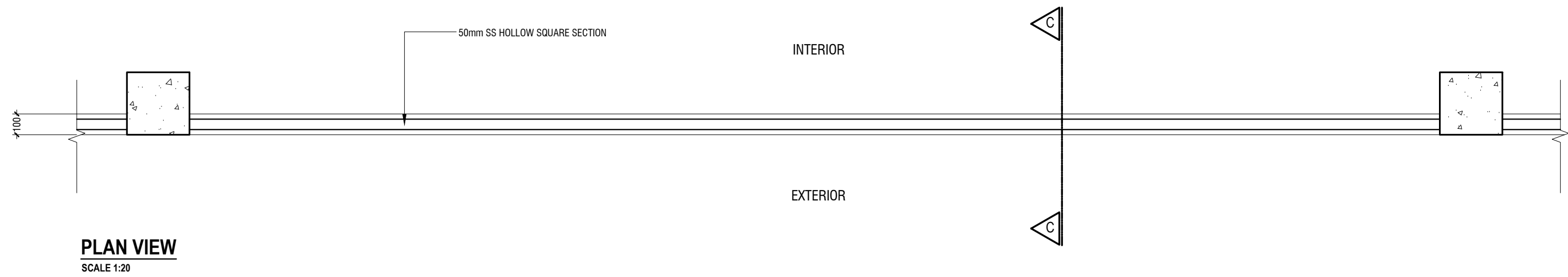
Title: Detail - 1 (Main Staircase)

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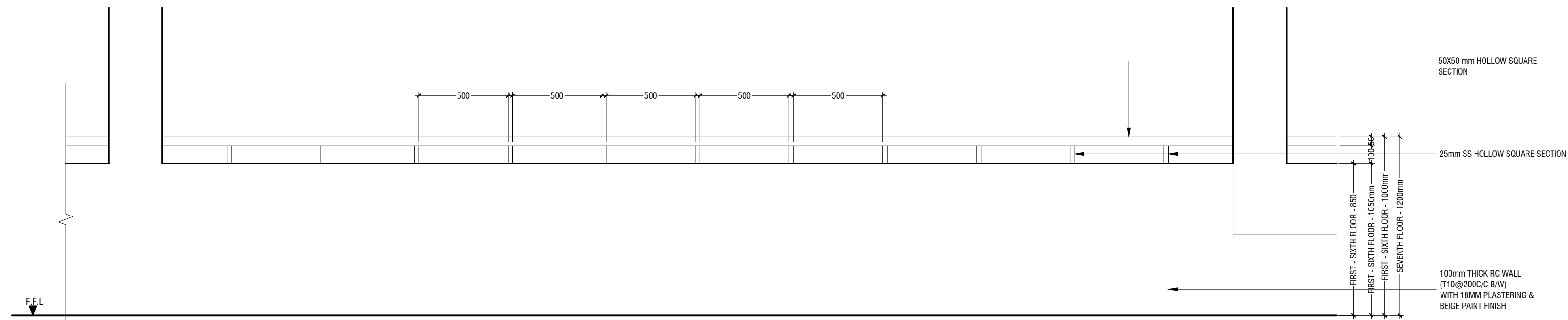
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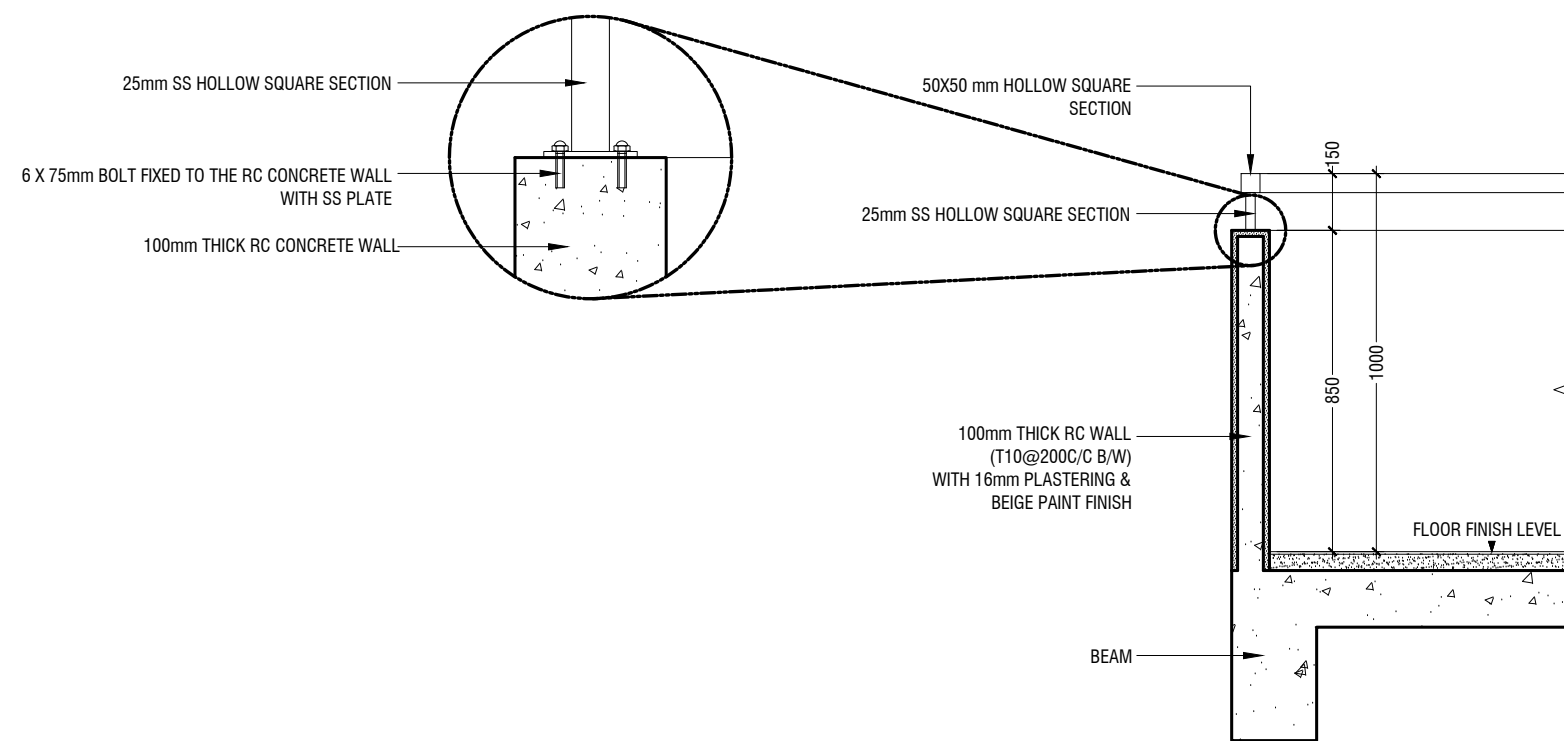
SCALE 1:50



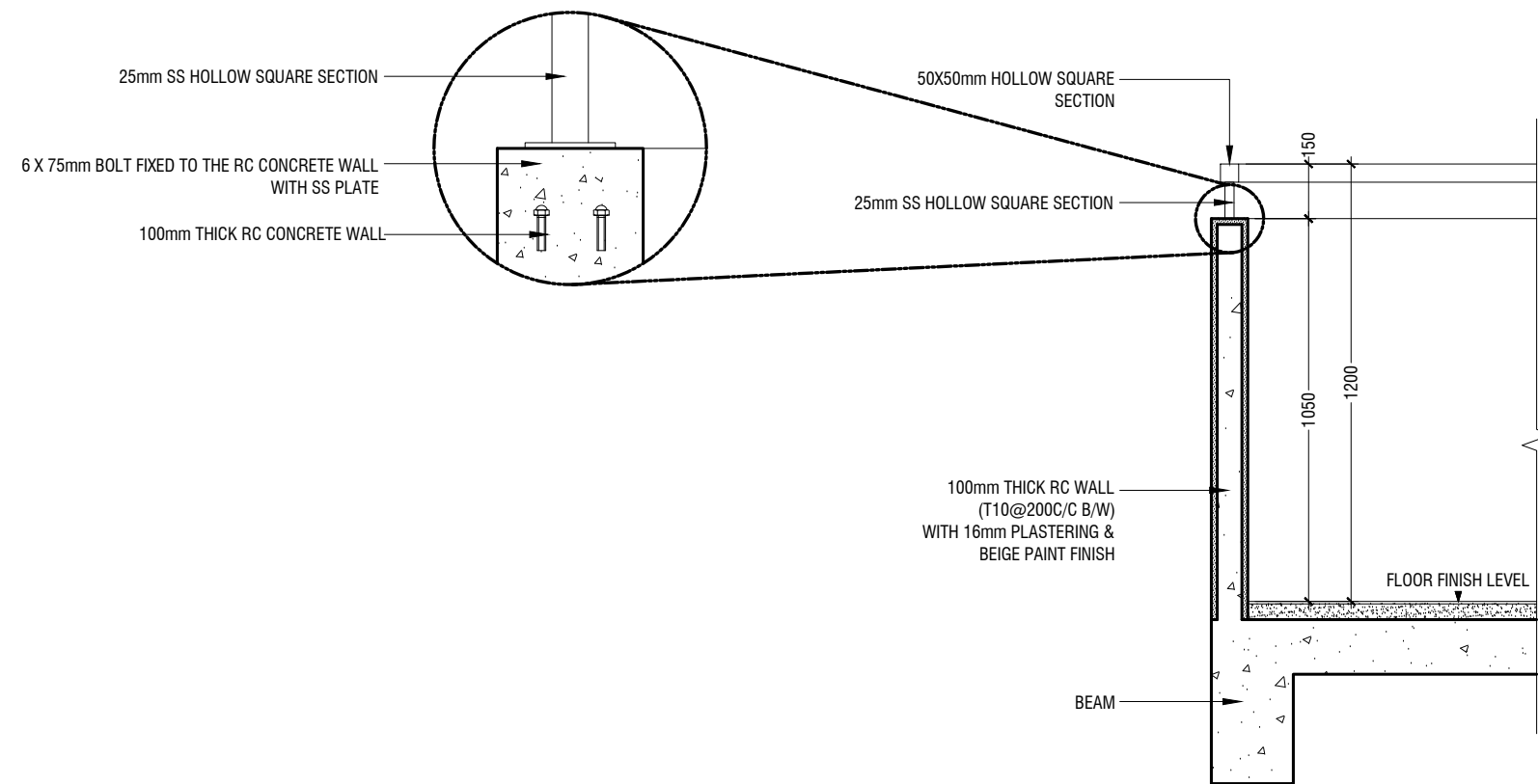
PLAN VIEW
SCALE 1:20



ELEVATION VIEW
SCALE 1:20



SECTION C - C (FIRST - SIXTH FLOOR)
SCALE 1:20



SECTION C - C (SEVENTH FLOOR)
SCALE 1:20

DETAIL 03 - (BALCONY)
SCALE 1:20

Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: RA/2016/05

Date: JULY 2019

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Wahied

Drawn by: Fahimath Leena Jaleel

Services: Ahsan Ahmed

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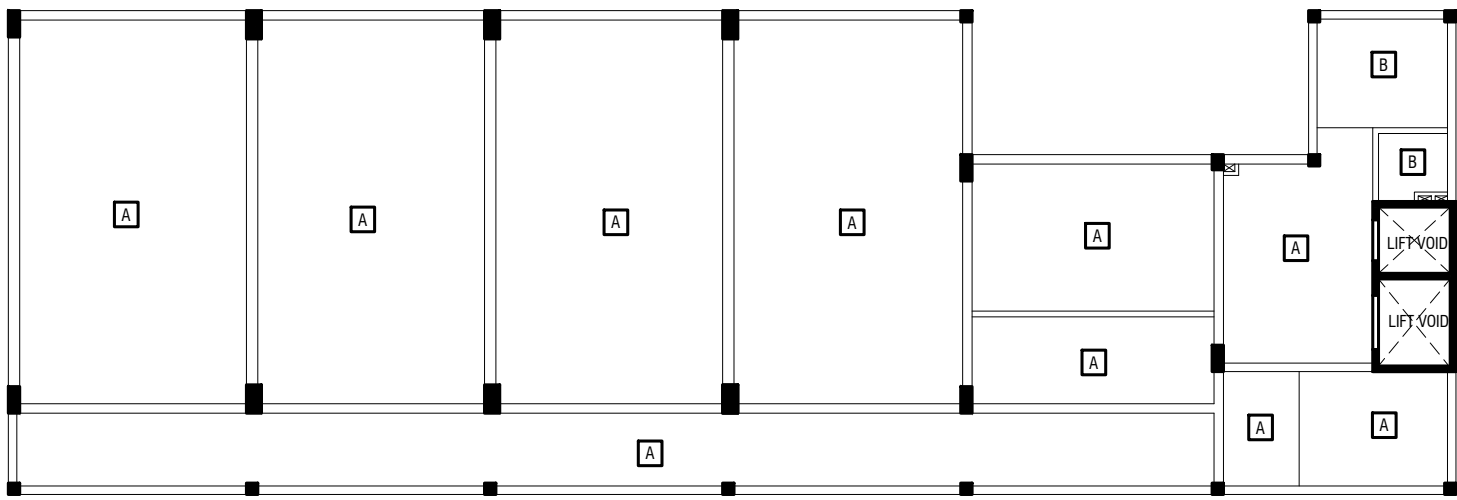


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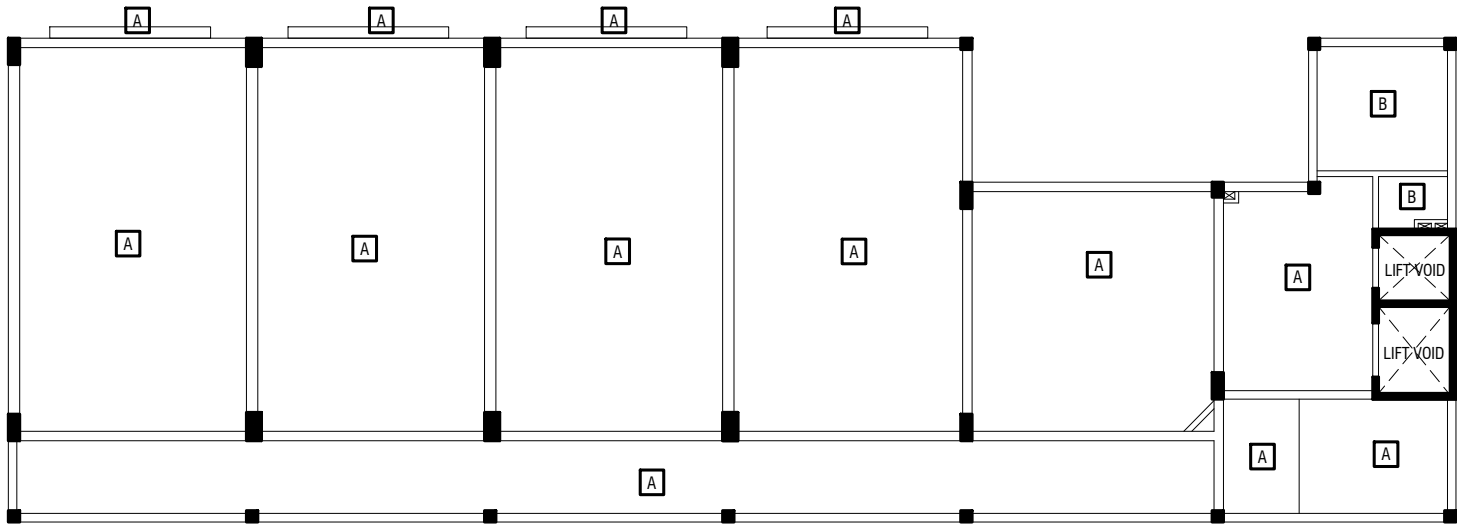
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Title: Detail - 3 (Balcony)

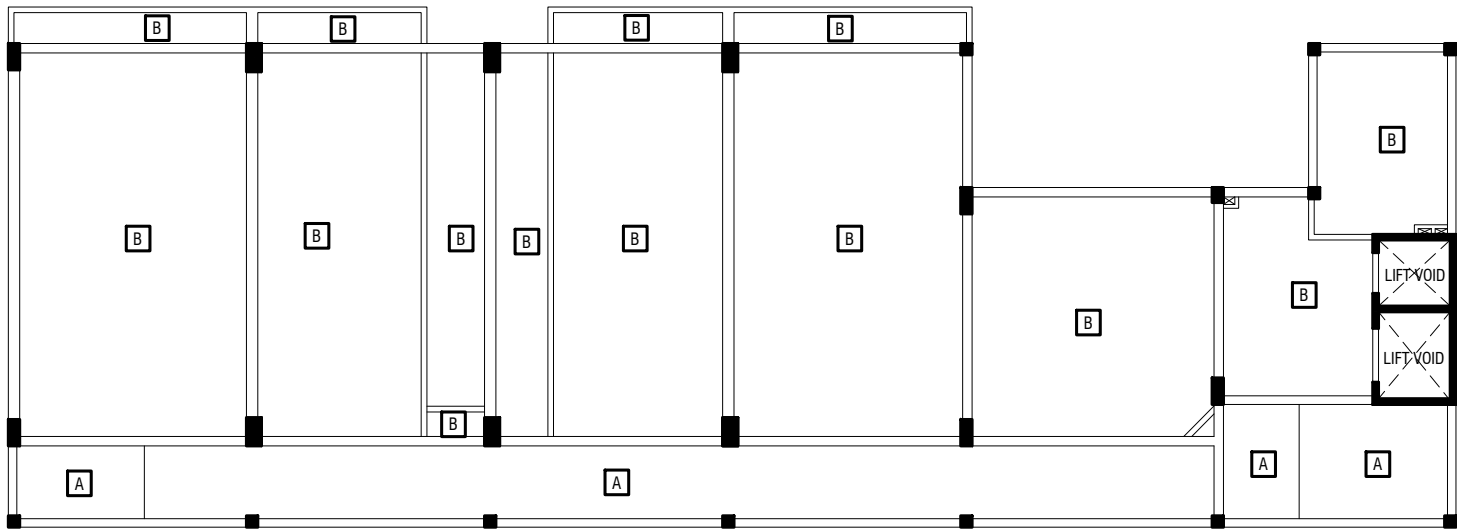
Page: A- 17 / 22



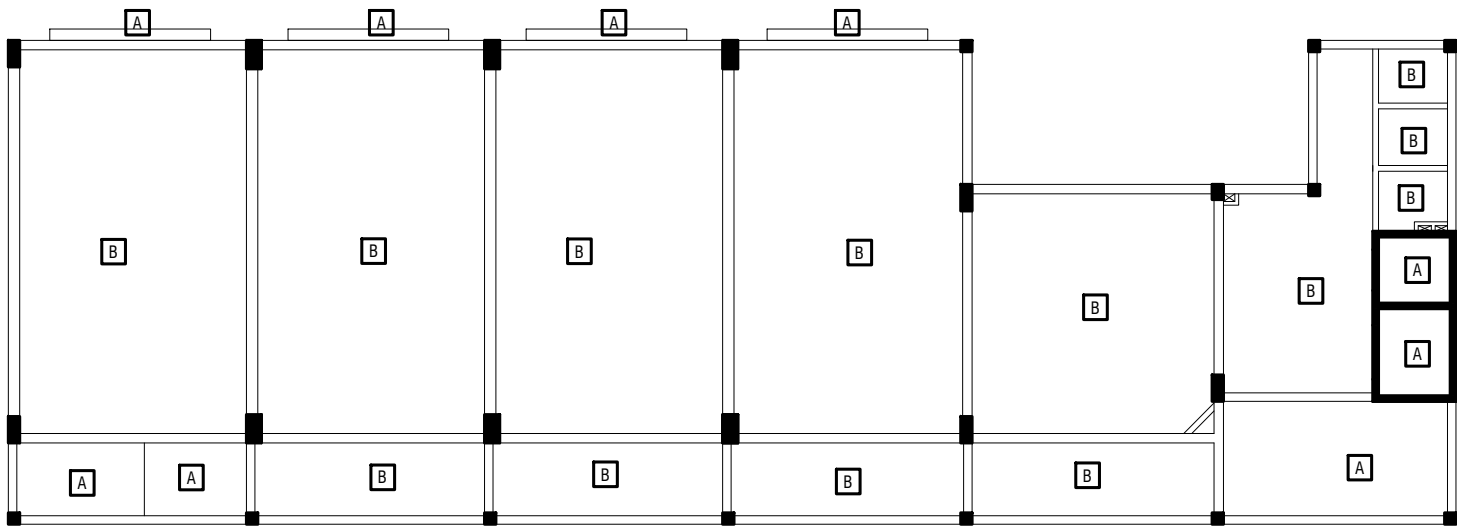
GROUND FLOOR CEILING FINISHES LAYOUT PLAN
SCALE 1:50



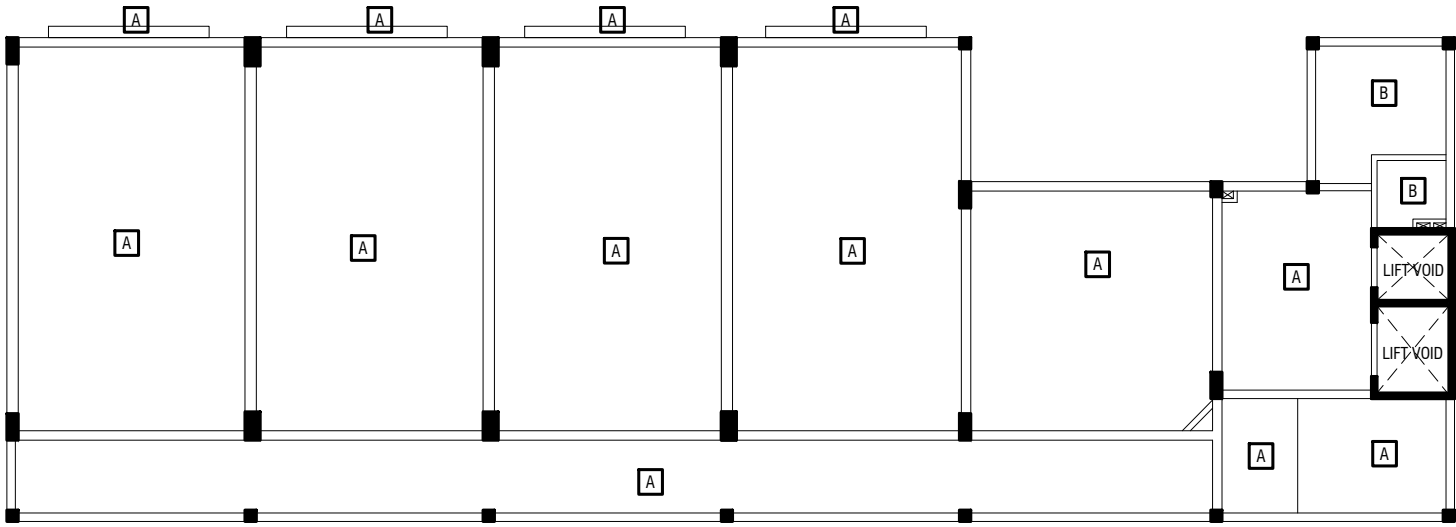
FIRST FLOOR CEILING FINISHES LAYOUT PLAN
SCALE 1:50



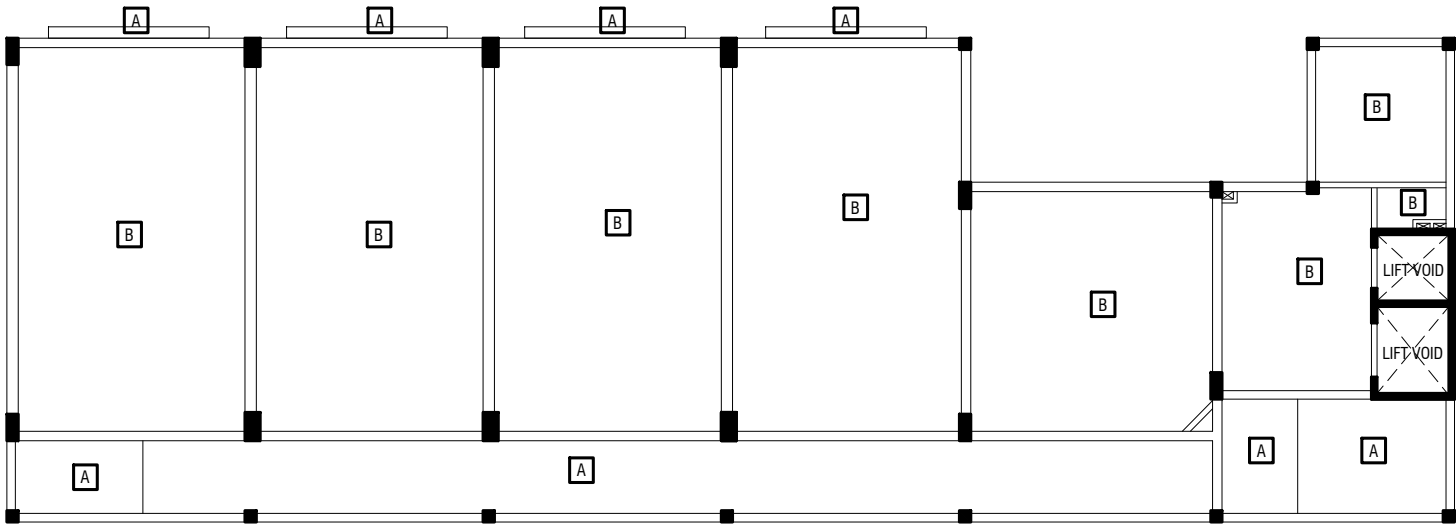
THIRD FLOOR CEILING FINISHES LAYOUT PLAN
SCALE 1:50



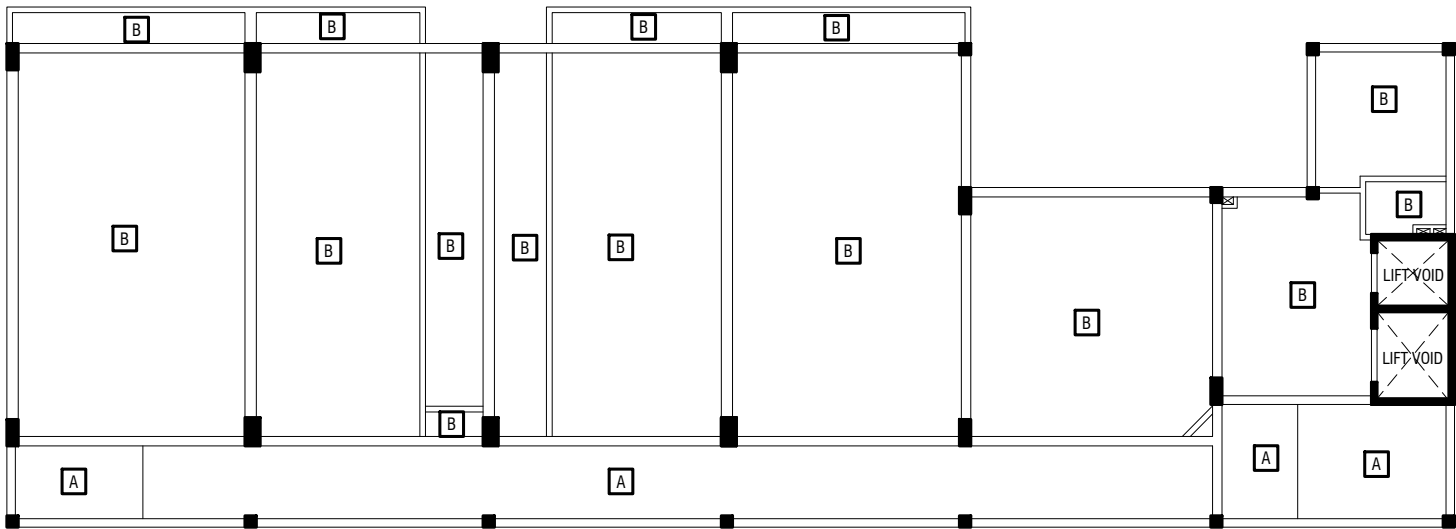
SEVENTH FLOOR CEILING FINISHES LAYOUT PLAN
SCALE 1:50



FIRST FLOOR CEILING FINISHES LAYOUT PLAN
SCALE 1:50



THIRD FLOOR CEILING FINISHES LAYOUT PLAN
SCALE 1:50



FIFTH FLOOR CEILING FINISHES LAYOUT PLAN
SCALE 1:50

NOTE:

- A EXPOSED SLAB SOFFIT TO BE FINISH WITH EMULSION PAINT FINISH
- B SUSPENDED 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM

Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: RI/2016/005

Date: JULY 2019

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

Quantity Surveyor: Ihsan Waheed

Structural Engineer: Ahsan Ahmed



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Ground - Seventh Floor

Title: Ceiling Finishes Layout

Plans

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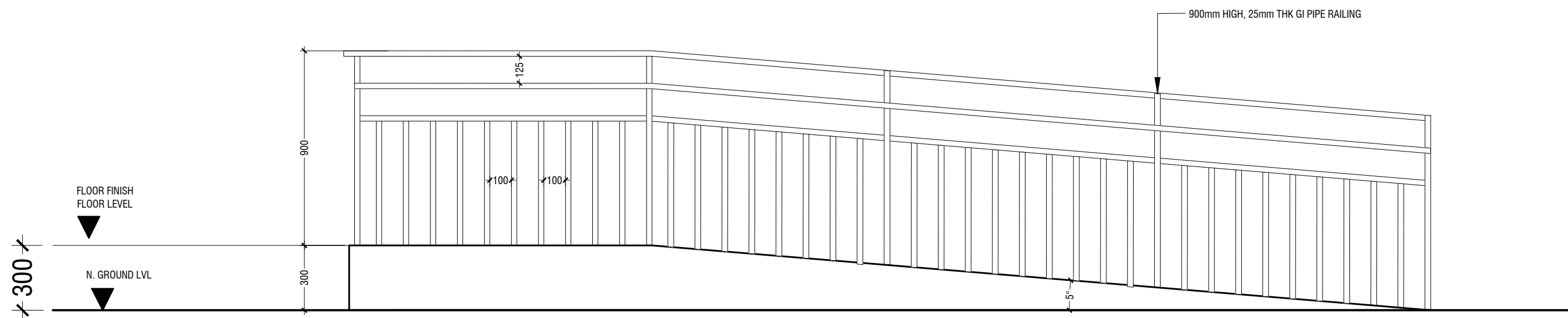
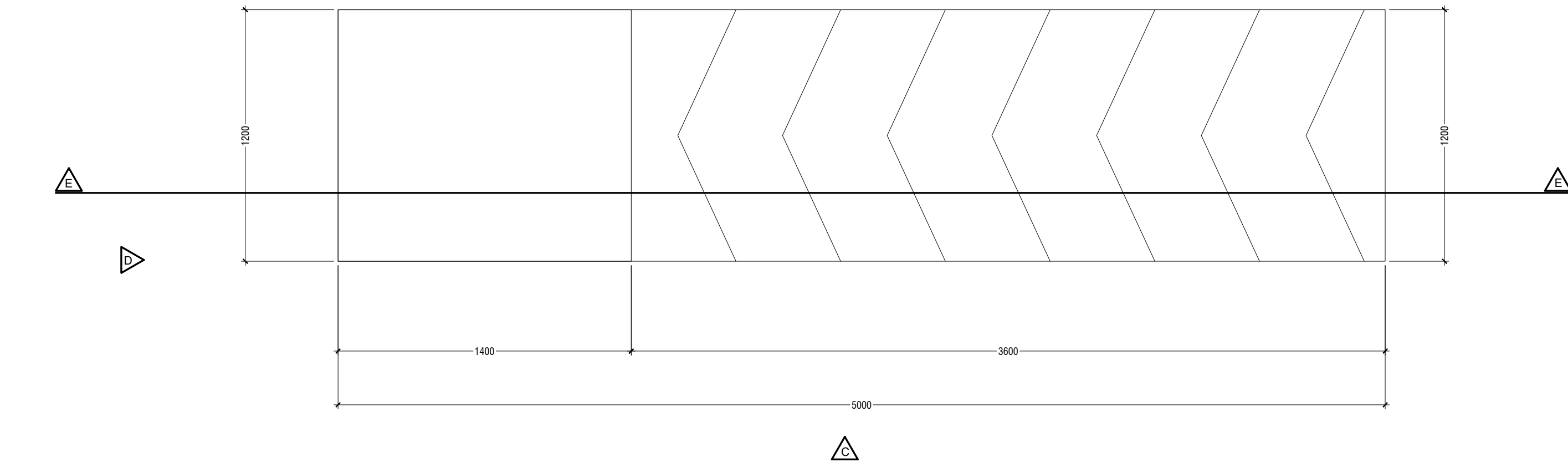
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FINISHING SCHEDULE			
GROUND FLOOR	FLOOR FINISH	WALL FINISH	CEILING FINISH
PARKING (320.06 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
CANTEEN (25.9 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
GIRLS TOILET (10.57 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
DISABLE TOILET (3.18 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
SERVICES ROOM (5.19 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
CORRIDOR (63.93 SQM)	25 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
STAIRS (3.49 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed underside of stairs & half landing slab soffit to be finish with emulsion paint finish
FIRST FLOOR	FLOOR FINISH	WALL FINISH	CEILING FINISH
CLASSROOMS (254.88 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
STAFF ROOM (41.86 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
BOYS TOILET (11.74 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
BOYS PRAYER ROOM (3.18 SQM)	300 X 300 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAIR (11.63 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed underside of stairs & half landing slab soffit to be finish with emulsion paint finish
CORRIDOR (98.74 SQM)	25 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
SECOND FLOOR	FLOOR FINISH	WALL FINISH	CEILING FINISH
CLASSROOMS (254.88 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
STAFF ROOM (41.86 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
GIRLS PRAYER ROOM (12.05 SQM)	300 X 300 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
GIRLS TOILET (2.40 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAIR (11.63 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed underside of stairs & half landing slab soffit to be finish with emulsion paint finish
CORRIDOR (99.29 SQM)	25 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
THIRD FLOOR	FLOOR FINISH	WALL FINISH	CEILING FINISH
CLASSROOMS (190.19 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAFF ROOM (107.37 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAFF TOILET (13.13 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
STORE (1.83 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAIR (18.53 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed underside of stairs & half landing slab soffit to be finish with emulsion paint finish
CORRIDOR (98.87 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish

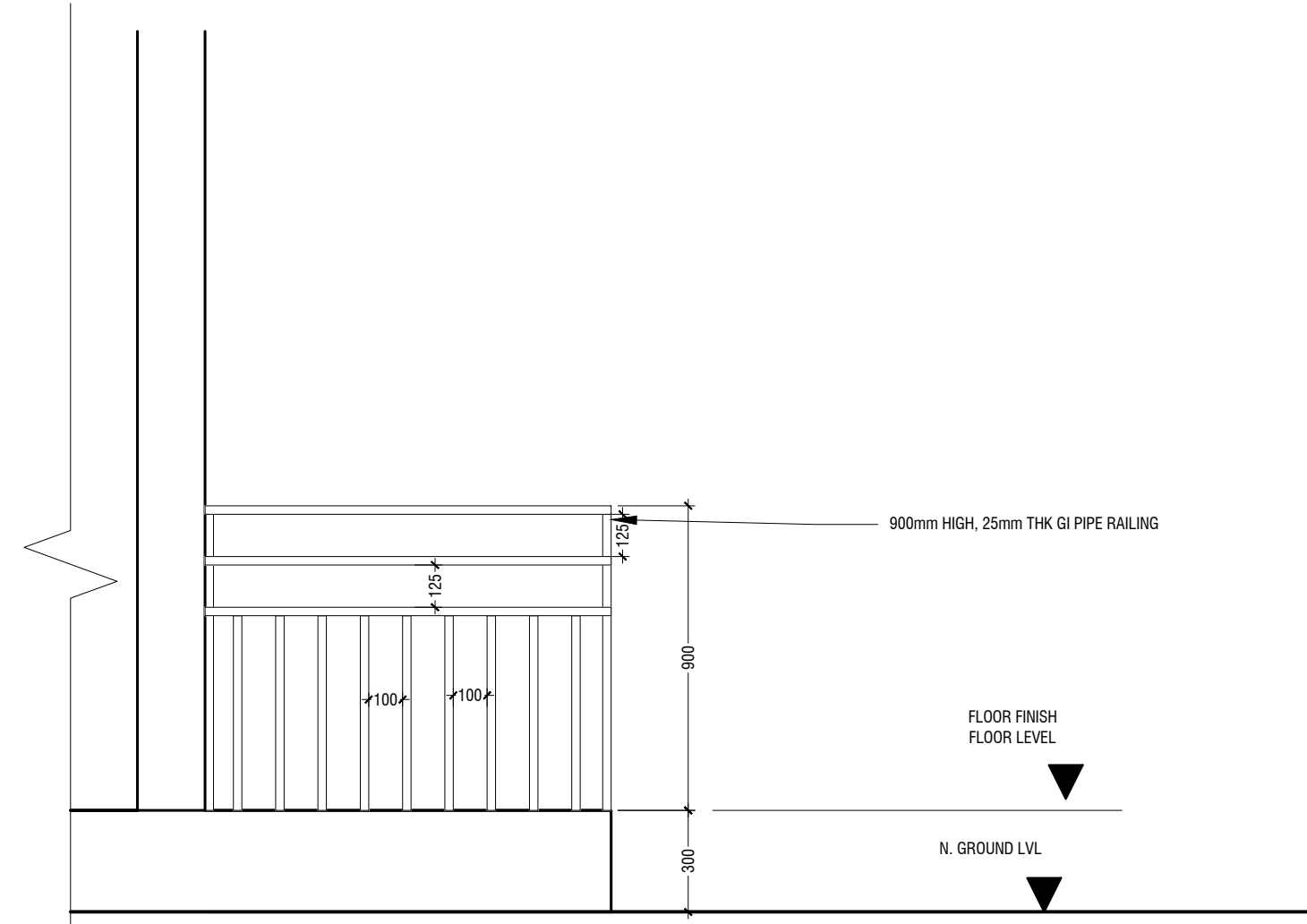
FOURTH & SIXTH FLOOR	FLOOR FINISH	WALL FINISH	CEILING FINISH
LABS (243.53 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
PREPARATION AREA (31.22 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	300X 300 mm thk polished wall tile over wall screeding as backsplash tile for cabinet area in preparation area. 16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish for rest of the walls	Suspended 'Boral' or equivalent plasterboard ceiling system
STORE (41.86 SQM)	300 X 300 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
DEPARTMENT ROOM (17.32 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAIR (18.53 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed underside of stairs & half landing slab soffit to be finish with emulsion paint finish
CORRIDOR (86.011 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
FIFTH FLOOR	FLOOR FINISH	WALL FINISH	CEILING FINISH
LABS (243.53 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
PREPARATION AREA (31.22 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	300X 300 mm thk polished wall tile over wall screeding as backsplash tile for cabinet area in preparation area. 16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish for rest of the walls	Suspended 'Boral' or equivalent plasterboard ceiling system
STORE (54.29 SQM)	600 X 600 mm thk. Matte Homogenous tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
TOILET (2.82 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAIR (18.53 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed underside of stairs & half landing slab soffit to be finish with emulsion paint finish
CORRIDOR (87.70 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed slab soffit to be finish with emulsion paint finish
SEVENTH FLOOR	FLOOR FINISH	WALL FINISH	CEILING FINISH
CLASSROOMS (254.88 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAFF ROOM (41.86 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system
GIRLS TOILET (2.85 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
BOYS TOILET (2.85 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAFF TOILET (2.78 SQM)	300 X 300 mm thk. Homogenous non-slip tiles over 25 mm screeding.	300 x 600 mm thk.polished wall tile over wall screeding, upto 1.3m from floor finish level. 16 mm interior side plastering applied with putty,ground smooth in water resistant paint finish from 1.3m & above.	Suspended 'Boral' or equivalent plasterboard ceiling system
STAIR (18.53 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Exposed underside of stairs & half landing slab soffit to be finish with emulsion paint finish
CORRIDOR (93.93 SQM)	50 mm thk Titanium finish Cement Screed	16 mm interior side plastering applied with putty,ground smooth in matte emulsion paint finish.	Suspended 'Boral' or equivalent plasterboard ceiling system

DRY WALL SPECIFICATION

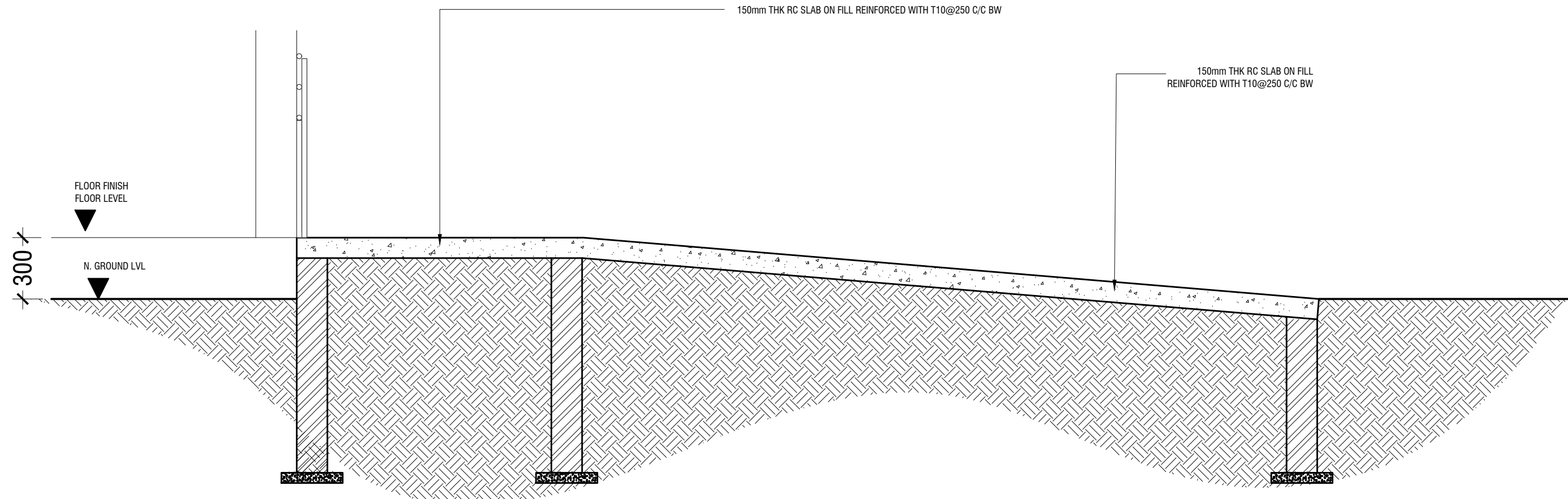
WEIGHT (kg/m²)	< 370
FIRE RATING (HOURS)	2
SOUND INSULATION (db)	52
COMPREHENSIVE STRENGTH CUBE (N/mm²)	25
COMPREHENSIVE STRENGTH SECTION (N/mm²)	15
THERMAL RESISTANCE (m2K/W)	0.4
MOISTURE ABSORBTION (%)	4.9



ELEVATION C



ELEVATION D



SECTION E-E

MAIN ENTRANCE RAMP DETAILS

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1

**Proposed Eight Storey Extension
At CHSE**

Client: Ministry Of Education
Project Number: R/2019/025
Date: JULY 2019

Rev no	Date
1	2019/07/16
2	2019/07/16
3	2019/07/16

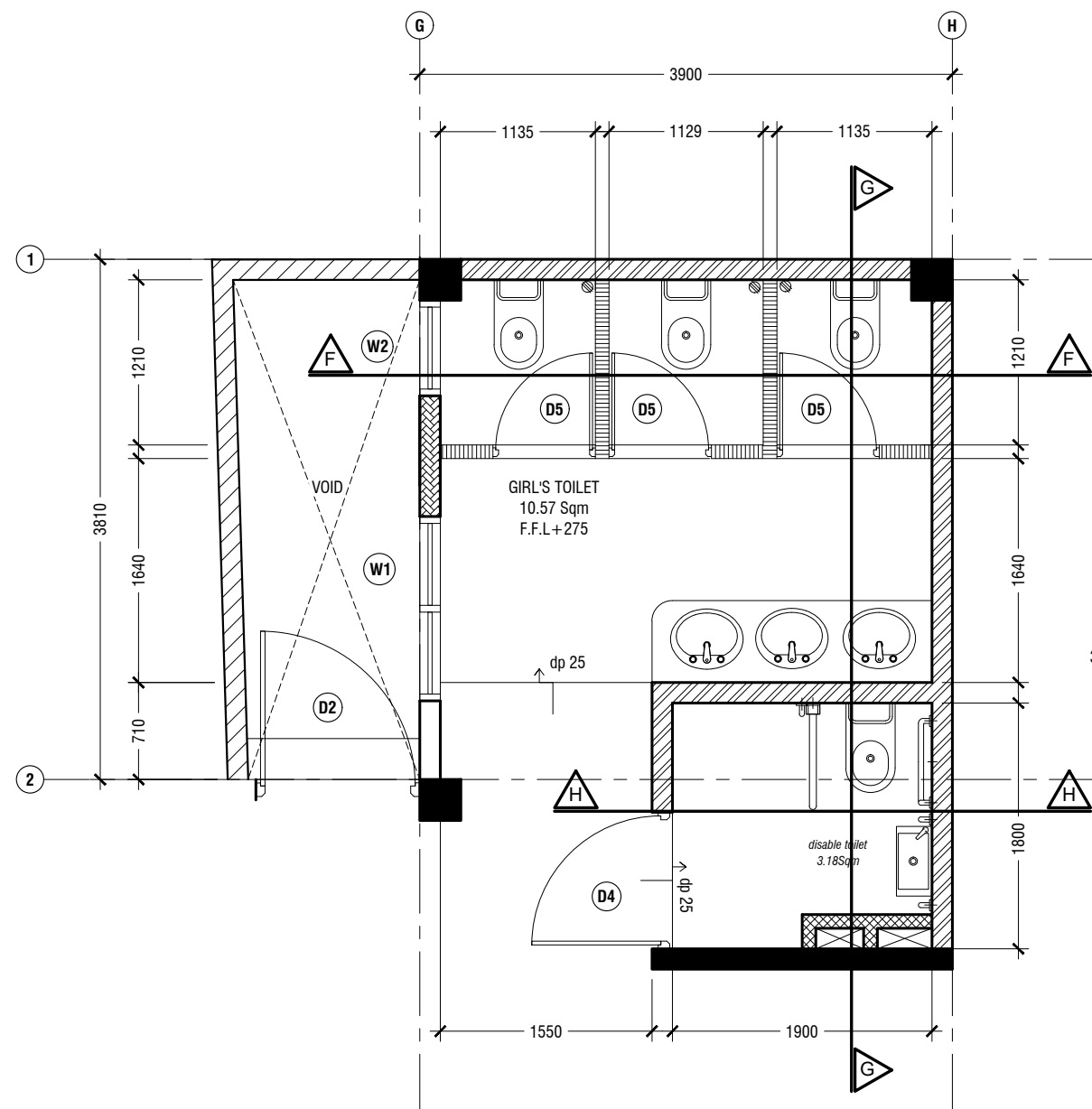
Architect: Fahimath Leena Jaleel
Engineer: Ihsan Waheed
Drawn by: Fahimath Leena Jaleel
Services: Alkhair Alkhair



RYAN PRIVATE LIMITED
t: +9633755041 f: +9633707716
e: info@ryan.com.my
www.ryan.com.my
3rd floor, 11, Jalan Ampang, Ampang, Malaysia

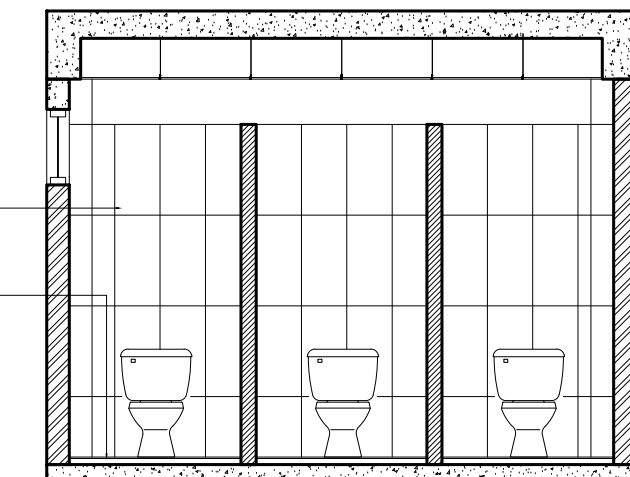
Title: Detail - 3 (Balcony)
Page: A- 21 / 22

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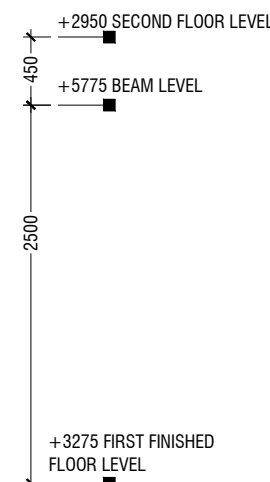
GIRL'S TOILET & DISABLED TOILET PLAN

SCALE 1:50
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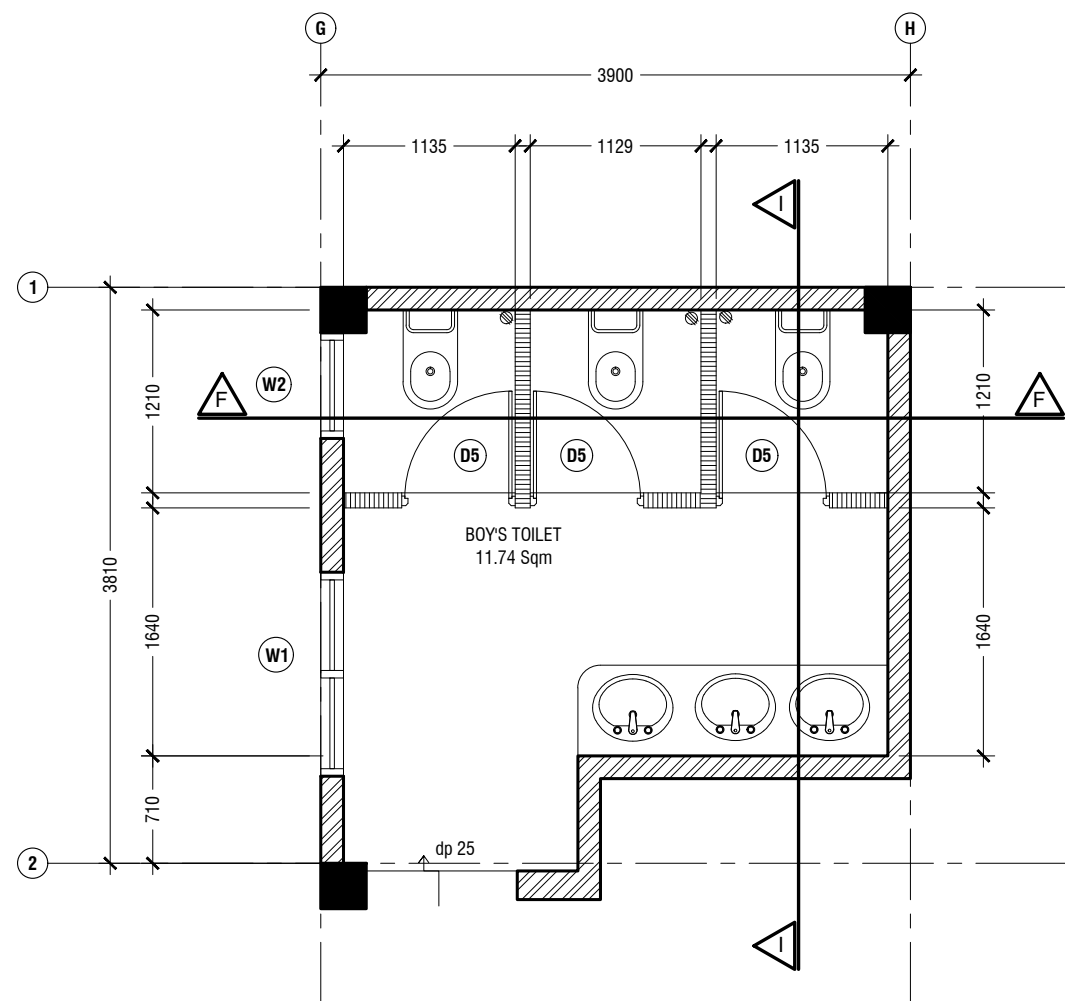
SECTION F-F

SCALE 1:50
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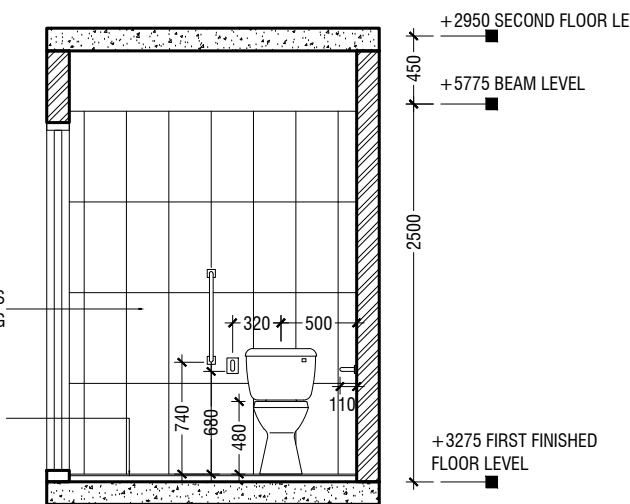
SECTION G-G

SCALE 1:50
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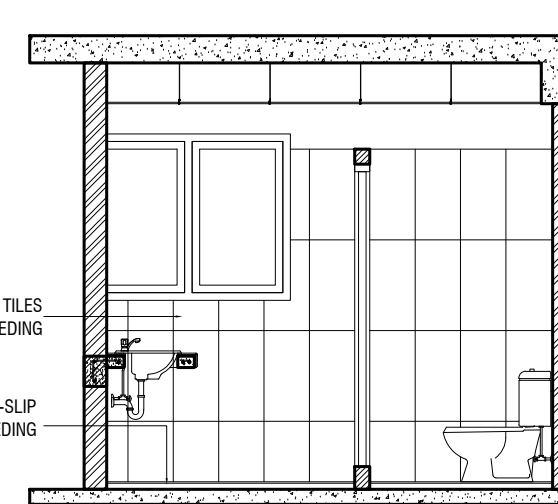
BOY'S TOILET PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



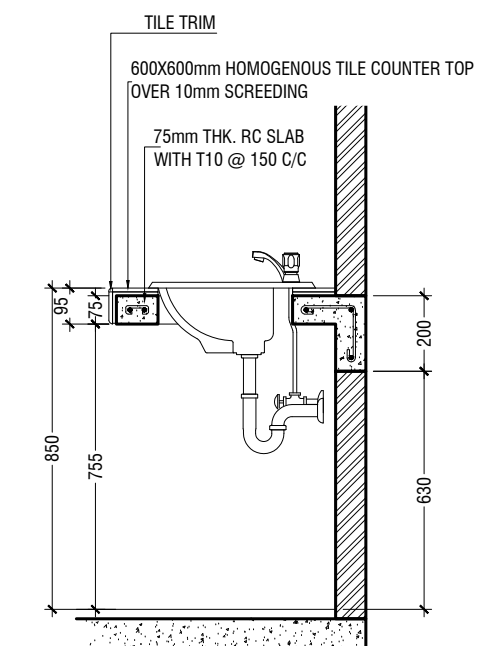
SECTION H-H

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



SECTION I-I

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

GENERAL NOTES

A. IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

B. THE CONTRACTOR SHALL COORDINATE WITH THE AR, SE, EE AND OTHER UTILITY AND EQUIPMENT PLANS FOR THE EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENINGS THRU FLOOR SLABS, BEAMS AND WALLS.

C. ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL CODE AND THE ACI 318-95 BUILDING CODE.

D. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL CODE AND AISC ASD 1989 IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.

E. ALL SLABS, BEAMS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLIED ENGINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BIDS/MEETINGS/NEGOTIATIONS. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMS IN HIS BID.

F. SLAB ON FILL MUST NOT BE PLACED UNLESS FILL HAS BEEN PROPERLY COMPACTED. UNLESS DETAILED OTHERWISE, ALL SLABS ON FILL SHALL BE PROVIDED WITH DAMP PROOF MEMBRANE. BACK FILLING OF ALL EXCAVATED AREAS AND PREPARATION OF LEAN CONCRETE SHALL BE WELL COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR DENSITY BEFORE LAYING 75mm LEAN CONCRETE.

NOTES ON CONCRETE MIXES AND PLACING

A. UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAY CYLINDER COMPRESSIVE STRENGTH OF CONCRETE, f_c , SHALL BE AS FOLLOWS:

1.) COLUMNS, BEAMS, GIRDERS AND SUSPENDED SLABS, CONC. WALLS 30MPa
FOOTINGS AND SLAB-ON-GRADE.

2.) LEAN CONCRETE 15MPa

B. 1.) CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS, IN WHICH CASE, THEY SHALL NOT EXCEED SIX (6) METERS IN AVERAGE LENGTH.

2.) NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

C. EACH BATCH OF CONCRETE MIX TIME SHOULD NOT BE <3 MINS.

D. POURING HEIGHT OF CONCRETE SHALL NOT BE MORE THAN 1.5M.

E. CONCRETE SHALL BE CURED FOR NOT LESS 7 DAYS.

F. FOR COLD JOINTS, SIKA LATEX OR EQUIVALENT BONDING AGENT SHOULD BE APPLIED 10 MINS. BEFORE POURING CONCRETE.

G. EXPOSED & EXTERNAL CONCRETE MEMBERS SHOULD BE CASTED WITH SIKA PLASTOCRETE PLUS OR EQUIVALENT WATER PROOFING CHEMICAL.

NOTES ON REINFORCING STEEL BARS

A. ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, DEFORMED BARS CONFORMING TO THE SPECIFICATIONS OF PNS 49: 1995 (ASTM 615) GRADE 415.

B. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS, SECURED IN THE REQUIRED LOCATION IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI-315.

C. ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE.

D. REINFORCING BARS SHALL NOT BE WELDED WITHOUT THE STRUCTURAL ENGINEER'S WRITTEN PERMISSION. WELDING OF STIRRUPS, TIES, INSERTS OR OTHER SIMILAR ELEMENTS TO LONGITUDINAL REINFORCEMENT SHALL NOT BE ALLOWED.

E. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS; (MINIMUM)

1.) CONCRETE CAST AGAINST EARTH : 50-55mm

2.) CONCRETE EXPOSED TO EARTH OR WEATHER
200 TO 360 BARS : 50-55mm

160 BARS AND SMALLER : 40mm

3.) CONCRETE NOT EXPOSED TO EARTH OR WEATHER
SLABS, WALLS, JOINTS : 30mm

BEAMS : 30 - 35mm

COLUMNS : 40mm

F. SEE TABLE "A" FOR SCHEDULE OF LAP SPLICES, GIRDERS.

TABLE A

BAR DIAMETER	LAP SPLICES LENGTH (mm)
10	450
12	550
16	750
20	900
25	1300
32	1750

NOTES ON FOUNDATION

A. FOOTINGS WERE DESIGNED WITH AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 150 KPa. CONTRACTOR SHALL REPORT IN WRITING TO THE STRUCTURAL ENGINEER ACTUAL SOIL CONDITION UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.

B. NO FOOTING SHALL REST ON UNCOMPACTED FILL.

C. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 50mm CLEAR FOR CONCRETE DEPOSITED AGAINST THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST FORMWORK.

D. PROVIDE TEMPORARY REMOVAL OF WATER FROM ANY SOURCE DURING CONSTRUCTION. DEWATERING SHALL BE CAREFULLY AND PROPERLY PERFORMED TO AVOID DISTURBING THE FOUNDATIONS AND SLAB BEARING SURFACES.

E. CONTRACTOR SHALL DESIGN, INSTALL AND MONITOR ALL EXCAVATION RETENTION SYSTEMS AS REQUIRED FOR PROTECTION OF ADJACENT PROPERTIES AND PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO MINIMIZE SETTLEMENT AND PREVENT DAMAGE TO ADJACENT EXISTING OR NEW CONSTRUCTION.

F. IN CASES WHERE REQUIRED FOOTING LEVELS SHOW A HONEYCOMBED STRUCTURE CONTAINING LOOSE MATERIALS, REMOVE LOOSE MATERIALS AND FILL ALL VOIDS WITH A CONCRETE REPAIR MOTAR.

G. REFER TO ARCHITECTURAL, PLUMBING AND OTHER TRADES FOR SUB-SOIL DRAINAGE SYSTEM, MACHINERY, ANCHORS AND OTHER EMBEDDED ITEMS, DEPRESSIONS, FINISHES, DOWELS FOR MASONRY WALLS, CURBS, ETC.

NOTES ON CONCRETE SLABS

A. ALL SLAB REINFORCEMENTS SHALL HAVE A CLEAR DISTANCE OF 30mm FROM THE BOTTOM AND FROM THE TOP OF SLABS. (see figure 1).

B. IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN BARS NEAR THE SUPPORTS.

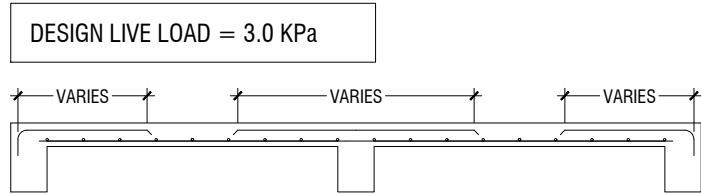


FIGURE 1(STANDARD SLAB DESIGN)

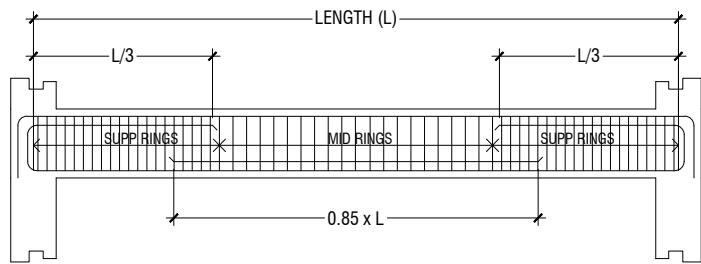


FIGURE 2(STANDARD SECTION OF A SIMPLY SUPPORTED BEAM)

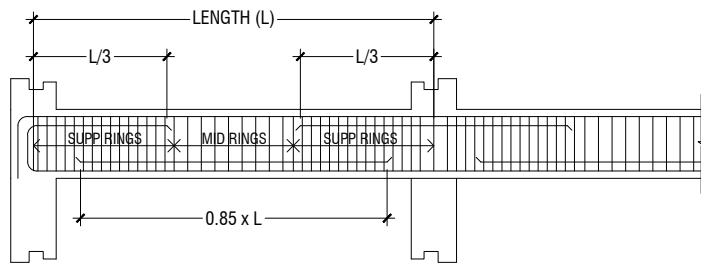
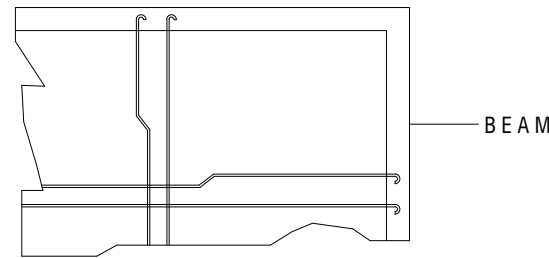


FIGURE 3(STANDARD SECTION OF A CONTINUOUS BEAM)



CORNER SLAB

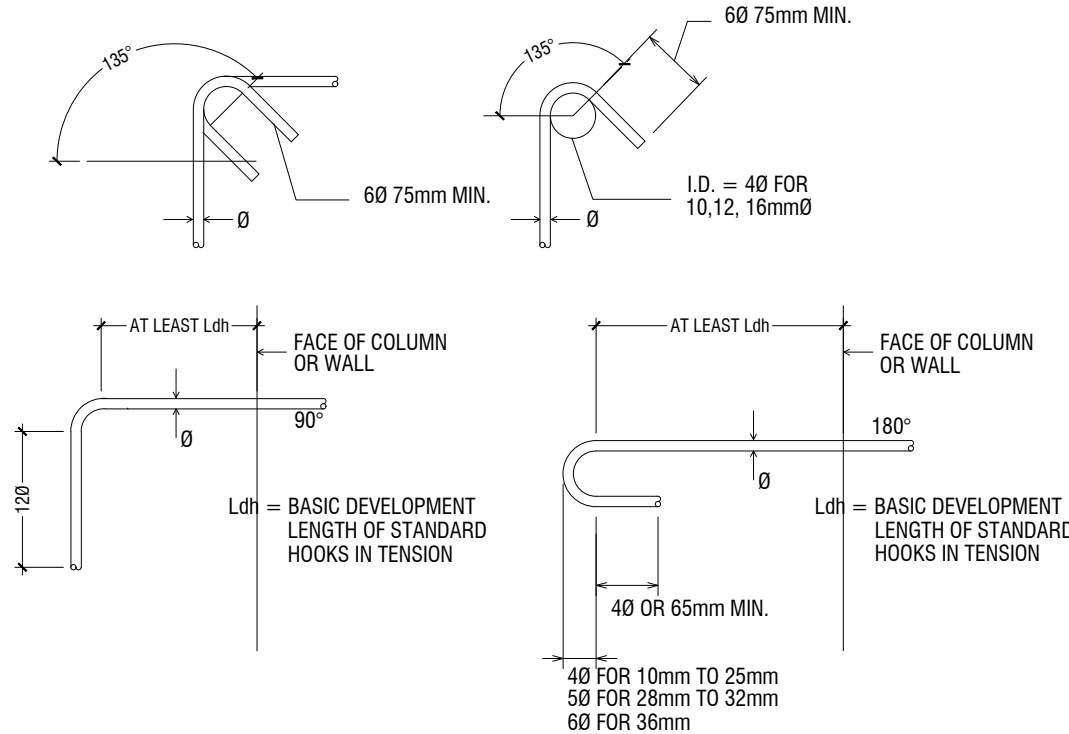


FIGURE 4 (DETAILS OF STANDARD HOOKS)

Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education

Project Number: 20/2016/025

Architect: Fahimath Leena Jaleel

Engineer: Fiaz Wahid

Drawn by: Fahimath Leena Jaleel

Services: Alhath Ahmed



RIYAN PRIVATE LIMITED

T: +9603331040 F: +9603330716
E: info@riyan.com.mv
W: www.riyan.com.mv
3rd floor, H. Azum, Ansenemogga, Male'

Title: General Notes

Page: S- 01 / 15

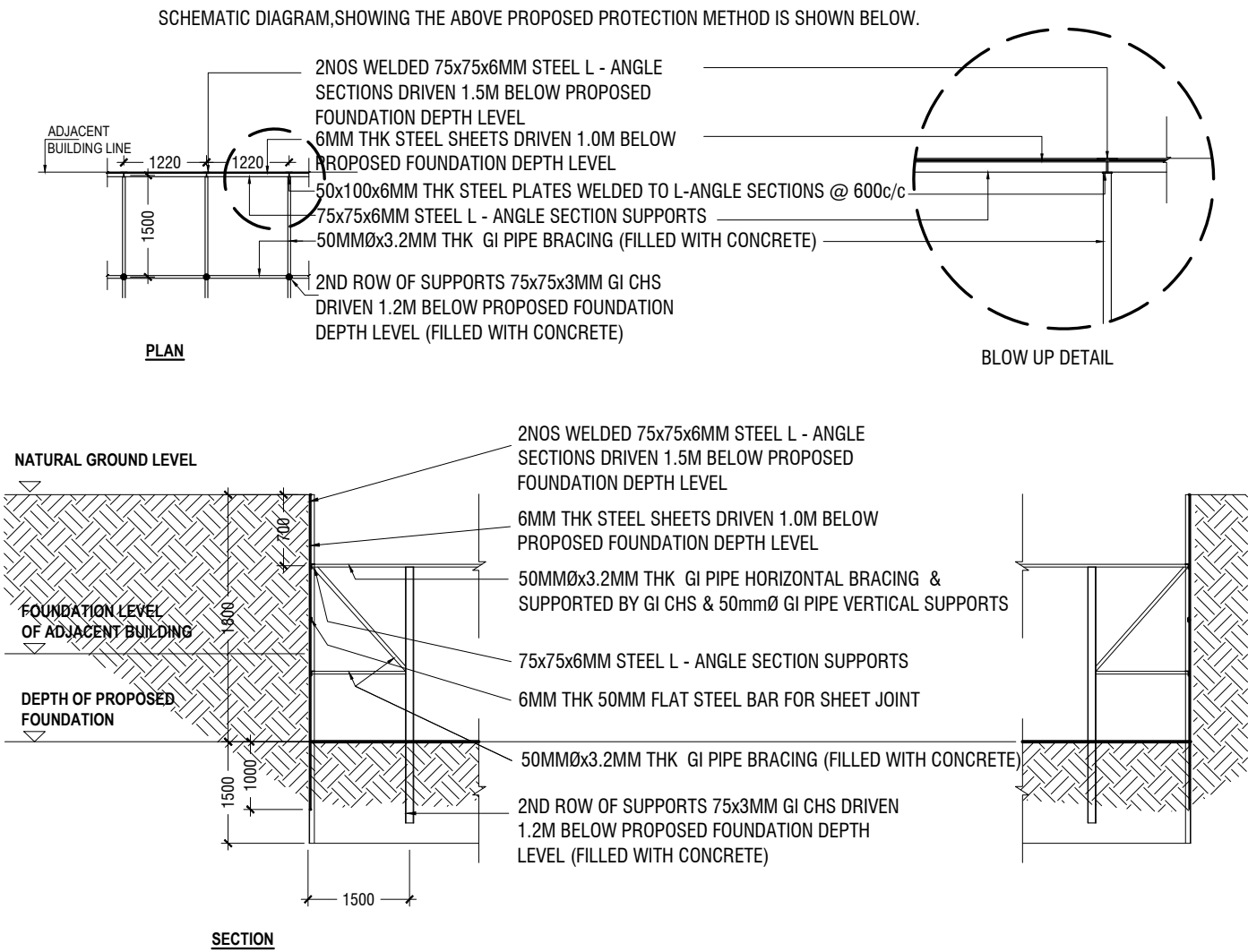
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FOUNDATION PROTECTION METHOD

TYPE A:
PROPOSED METHODOLOGY FOR PROTECTION OF ADJOINING FOUNDATIONS DURING EXCAVATION

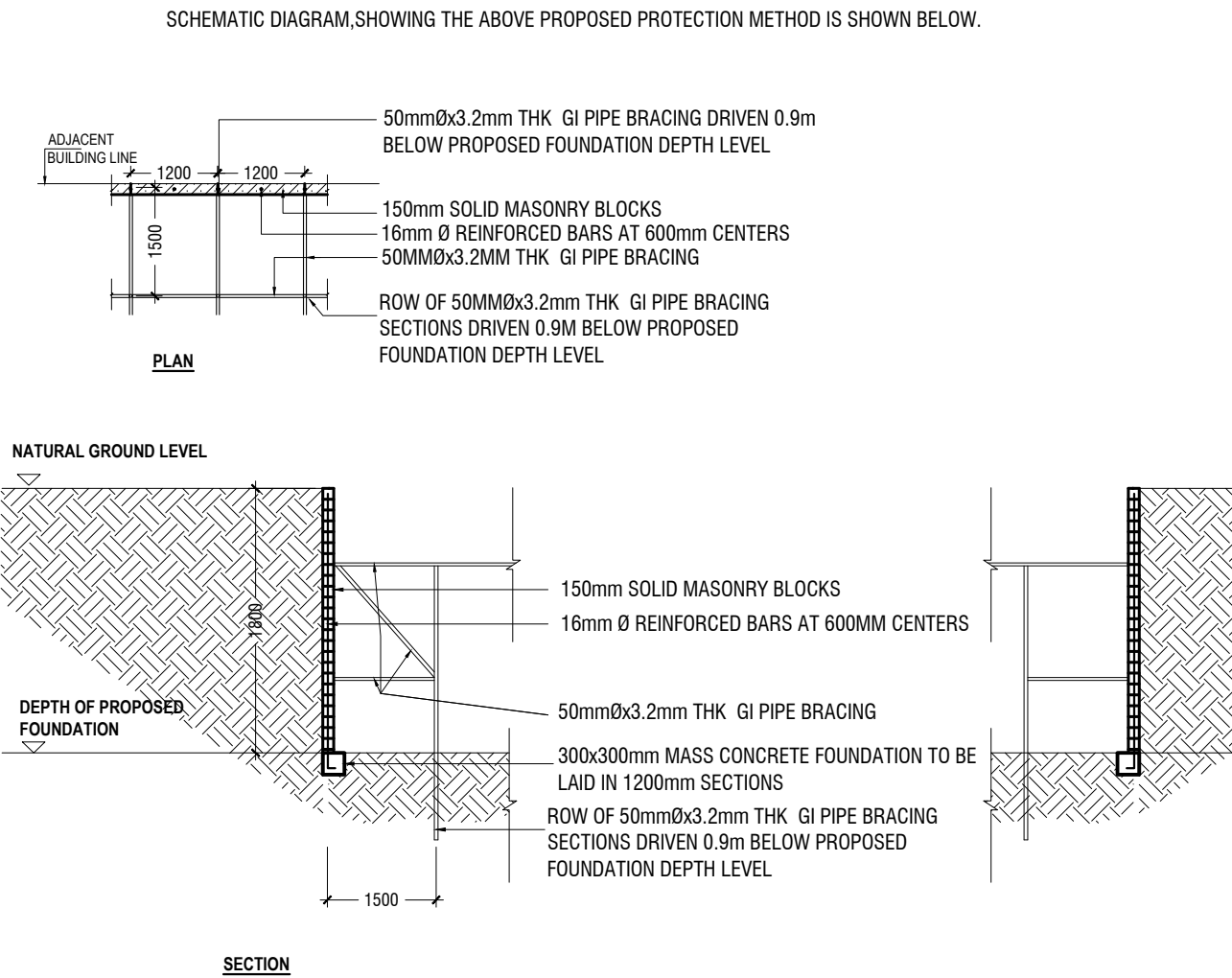
THE LATERAL PRESSURE ON THE MATERIAL ADJACENT TO THE EXCAVATION COULD BE PREVENTED MATERIALLY BY MEANS OF PROPER AND CAREFUL PLACEMENT OF SHEETING AND BRACING, I.E., AROUND THE PROPERTY LINE, 6MM THICK STEEL SHEETS MAY BE DRIVEN DOWN TO A DEPTH OF 1000MM BELOW THE PROPOSED FOUNDATION DEPTH

IN BETWEEN 2NOS WELDED 75x75x6MM STEEL L - ANGLE SECTIONS (TO FORM A T-SECTION) AT 1.22M INTERVALS. GROUTING AND WELDING WILL BE DONE AT ALL JOINTS TO MINIMIZE WATER SEEPAGE. TO PROVIDE LATERAL STIFFNESS THESE SHEETS SHALL BE BRACED USING 50MM Ø X3.2MM THICK GI PIPES IN ALL FEASIBLE DIRECTIONS. ONSITE CLOSE OBSERVATION, FREQUENT MEASUREMENTS AND RECODING OF THE VERTICAL AND LATERAL MOVEMENTS AND BEHAVIOR OF THE SHEETING AND BRACING SHOULD BE DONE TO PROVIDE EARLY WARNING OF UNFAVORABLE DEVELOPMENT WHICH MIGHT CAUSE SETTLEMENT OF THE ADJACENT ROAD/PROPERTY. DE-WATERING WILL BE CONTINUED THROUGHOUT THE EXCAVATION PROCESS AND UNTIL CASTING OF THE FOUNDATION.



TYPE B:
PROPOSED METHODOLOGY FOR PROTECTION OF ADJOINING ROADS DURING EXCAVATION

A 600mm WIDE, 1200MM LONG PIT CAN BE EXCAVATED AT A TIME ALONG THE ADJOINING BUILDINGS. THE FOUNDATION CAN BE SUPPORTED BY CONSTRUCTION OF 150MM THICK SOLID BLOCK RETAINING WALL, WHICH STARTS AT 300MM BELOW THE PROPOSED FOUNDATION DEPTH UP TO THE UNDERSIDE OF ADJOINING FOUNDATION. THIS METHOD CAN ONLY BE APPLIED IF THE ADJOINING BUILDING OWNER PERMITS. TO PROVIDE LATERAL STIFFNESS, 16MM Ø REINFORCED BARS AT 600MM CENTERS SHOULD BE PLANTED INSIDE THE WALL VERTICALLY AND PLASTERED ON SIDE. THE RETAINING WALL SHALL BE BRACED USING 50MM Ø X 3.2MM THICK G.I PIPES OR 50X50X6.0MM THICK STEEL L-ANGLE SECTIONS IN ALL FEASIBLE DIRECTIONS. THIS FOUNDATION PROTECTION PROCESS WILL BE CONTINUED UNTIL ALL THE ADJOINING BUILDINGS FOUNDATIONS ARE SUPPORTED. ONSITE CLOSE OBSERVATION, FREQUENT MEASUREMENTS AND RECODING OF THE VERTICAL AND LATERAL MOVEMENTS AND BEHAVIOR OF THE SHEETING AND BRACING SHOULD BE DONE TO PROVIDE EARLY WARNING OF UNFAVORABLE DEVELOPMENT WHICH MIGHT CAUSE SETTLEMENT OF THE ADJACENT ROAD/PROPERTY. DE-WATERING WILL BE CONTINUED THROUGHOUT THE EXCAVATION PROCESS AND UNTIL CASTING OF THE FOUNDATION.



Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: R/2016/005
Date: December 2016
Architect: Fahimath Leena Jaleel
Engineer: Fahimath Leena Jaleel
Drawn by: Fahimath Leena Jaleel
Services: Alhath Alhath

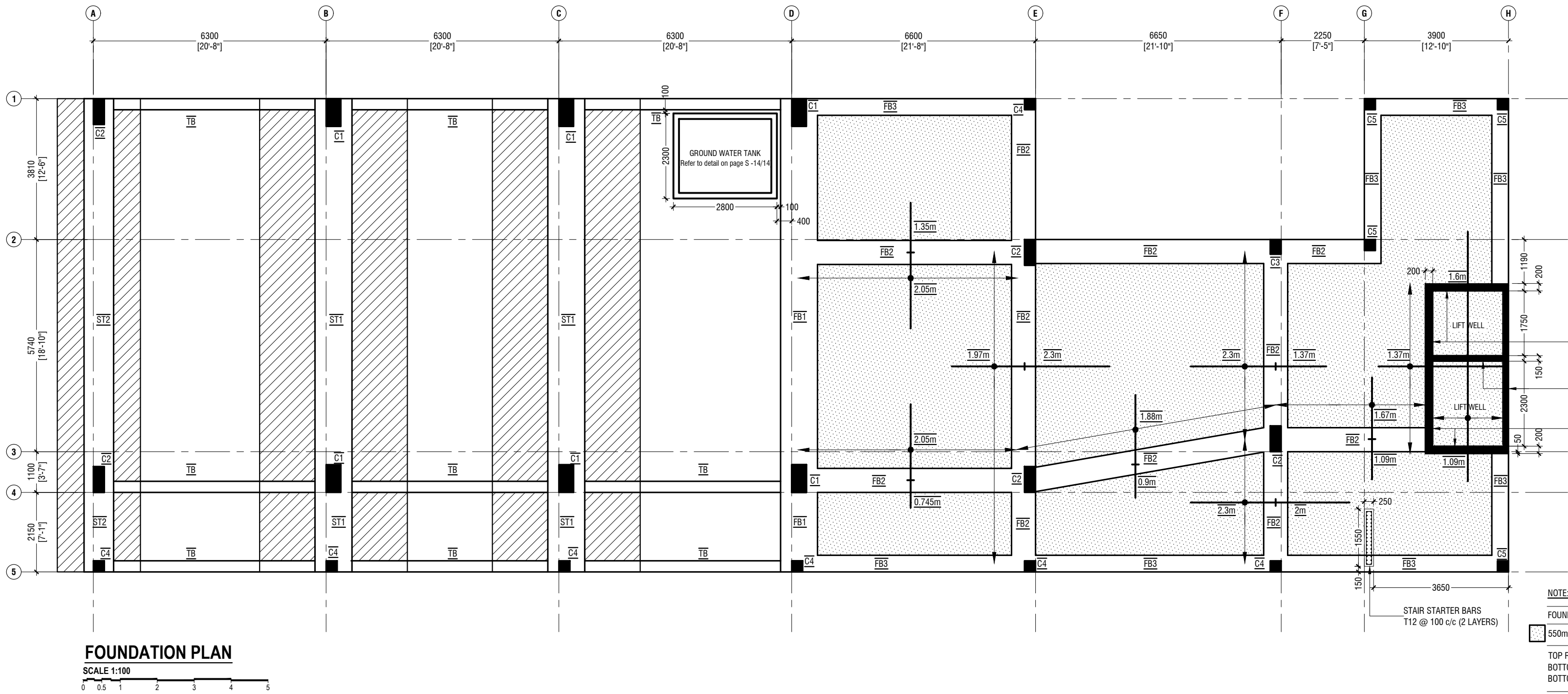
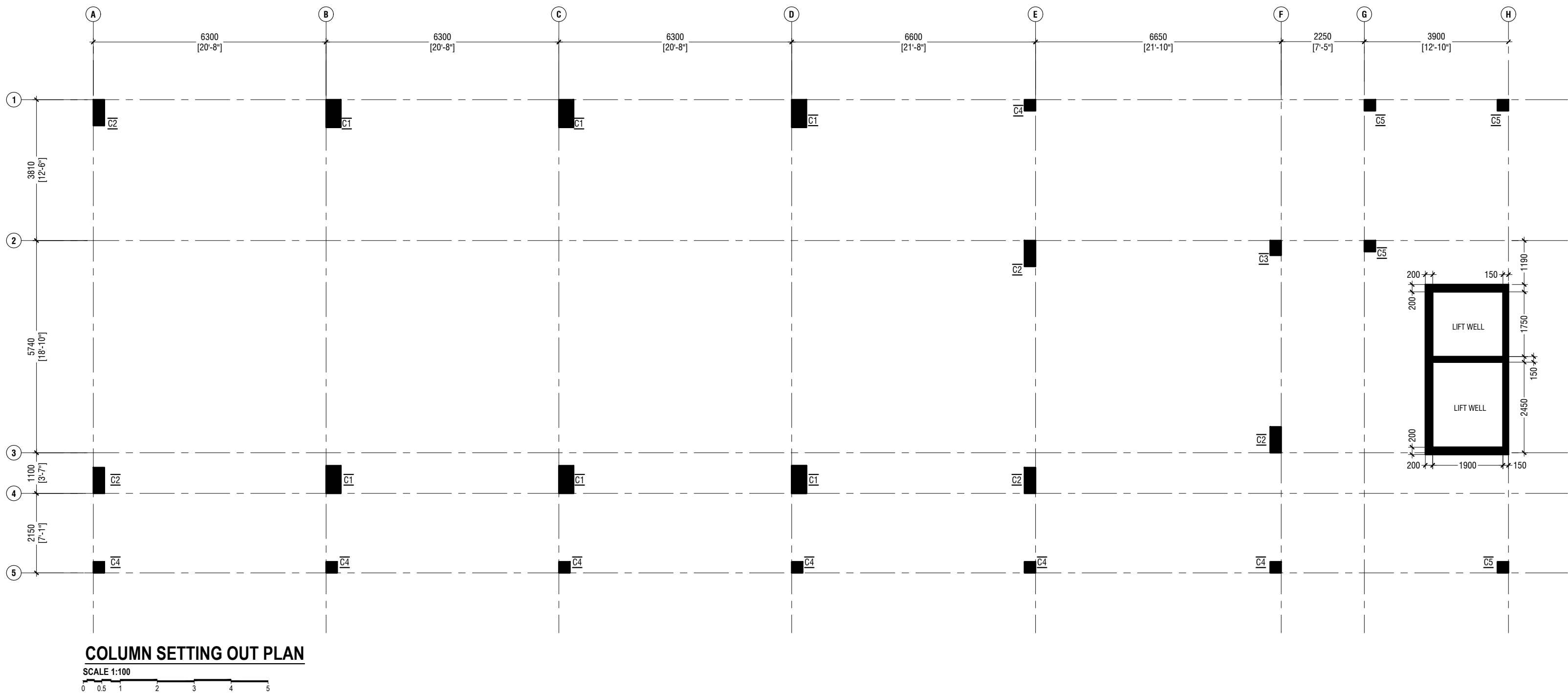
Rev no	Date
1	2016/12/05
2	2016/12/05
3	2016/12/05
4	2016/12/05
5	2016/12/05



RYAN PRIVATE LIMITED
t: +9603315000 f: +9603307076
e: info@ryan.com.mv
w: www.ryan.com.mv
3rd Floor, H. Azam, Alweeremagaa, Malé

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- 200mm RC LIFT WALL UPTO GROUND LEVEL
T12@150 C/C (V) & T10@150 C/C (H)
- 150mm RC LIFT WALL
T12@150 C/C (V) & T10@150 C/C (H)
- 200mm RC LIFT WALL UPTO GROUND LEVEL
T12@150 C/C (V) & T10@150 C/C (H)

NOTE:
FOUNDATION DEPTH - 1800mm
550mm THICK RAFT SLAB
TOP REINFORCEMENT - T16@125C B/W (NOT SHOWN)
BOTTOM REINFORCEMENT - T20@150C B/W (NOT SHOWN)
BOTTOM ADDITIONAL REINFORCEMENT - T20@150C/C (AS SHOWN)
100mm THICK GROUND SLAB, T10@200C B/W (B)

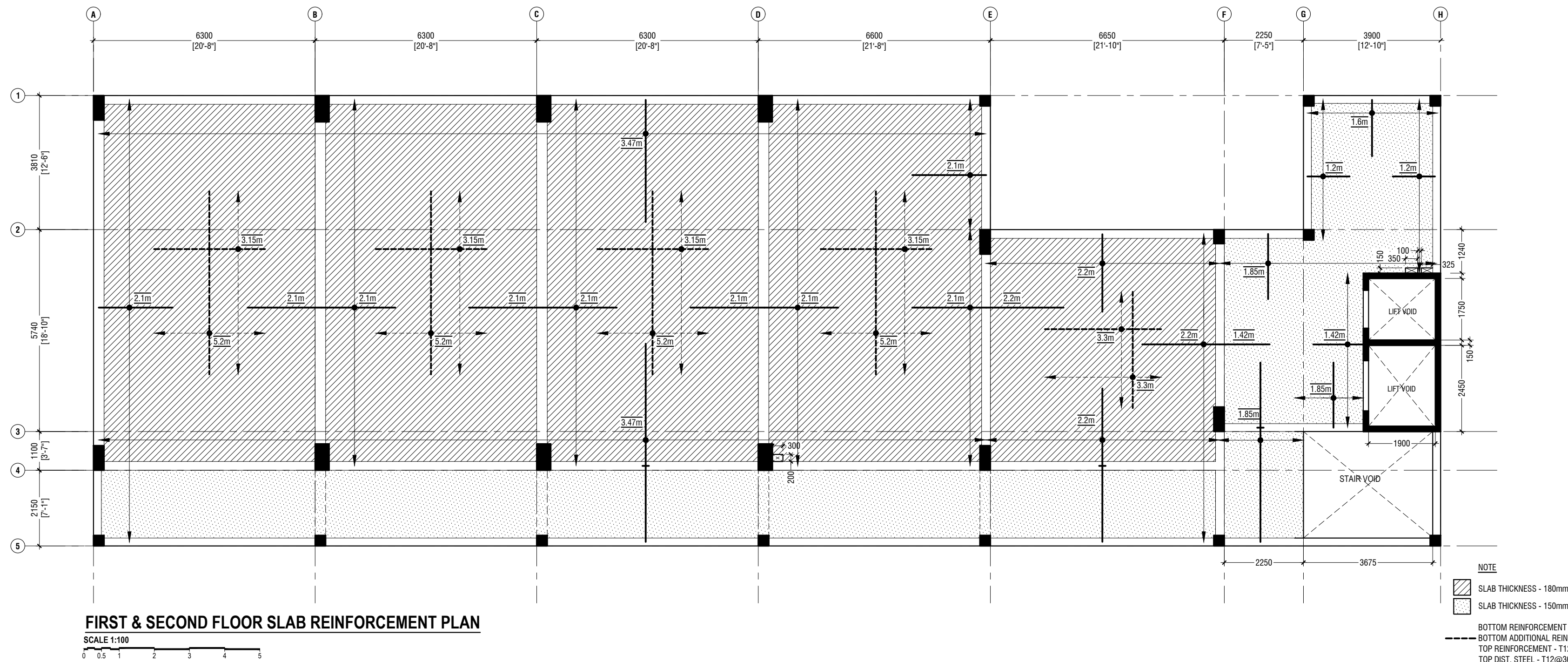
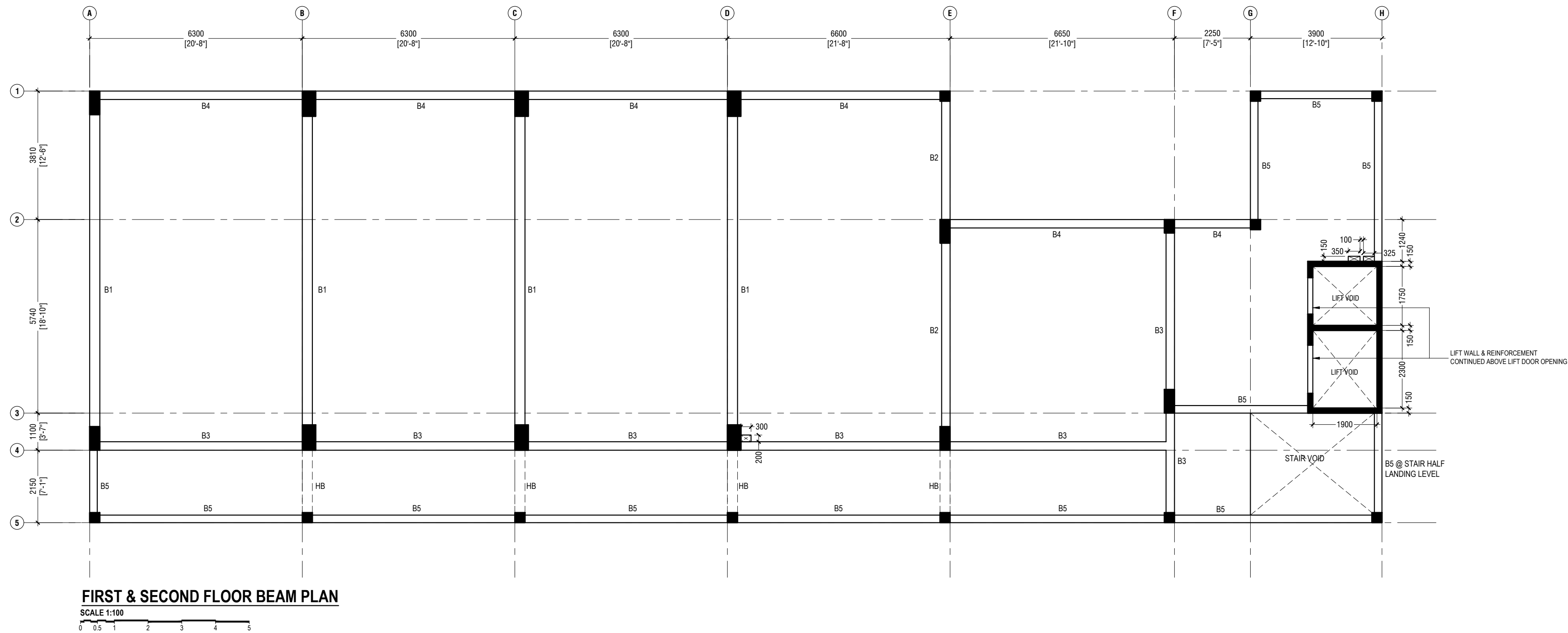
Proposed Eight Storey Extension
At CHSE
Client Ministry Of Education

Rev no	Date
1	20/10/2016
2	20/10/2016
3	20/10/2016
4	20/10/2016
5	20/10/2016
6	20/10/2016
7	20/10/2016
8	20/10/2016
9	20/10/2016
10	20/10/2016

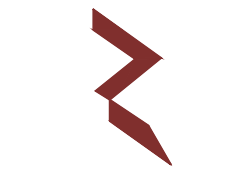


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t: +962325048 f: +962325076
e: info@ryan.com.jo
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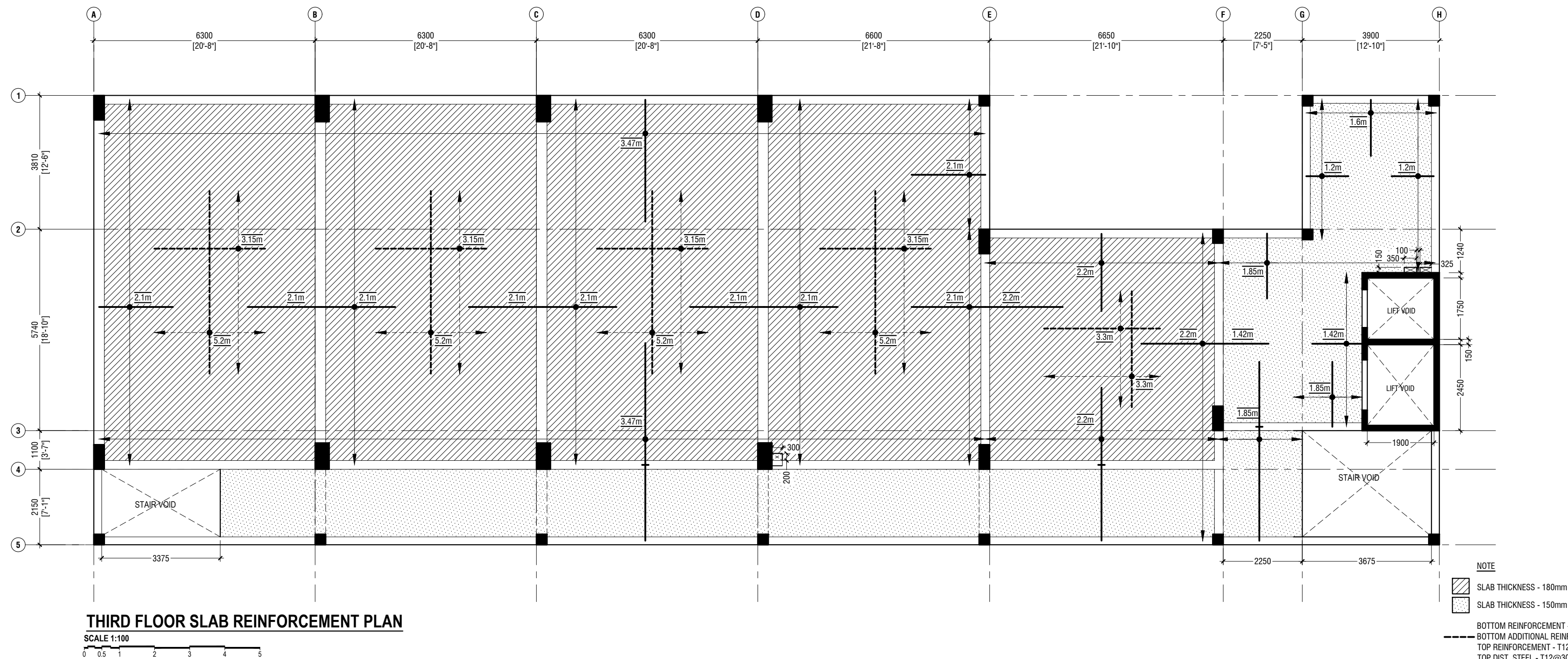
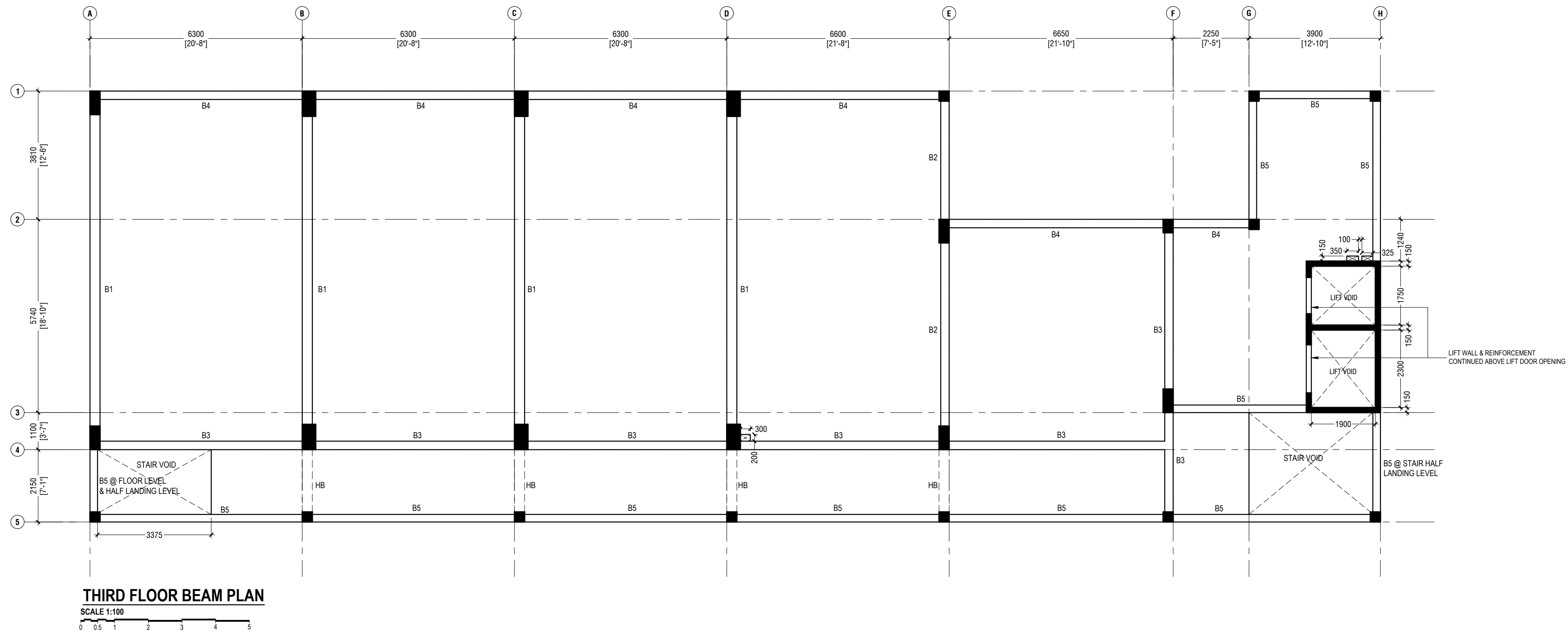


Proposed Eight Storey Extension
At CHSE
Client: Ministry Of Education
Project Number: RI/2016/005
Date: December 2016
Architect: Fahimath Lema Jaleel
Engineer: Fahimath Lema Jaleel
Drawn by: Fahimath Lema Jaleel
Services: Alshah Ahmed



RYAN PRIVATE LIMITED
1st Floor, H. Azam, Amman, Amman, Jordan
Tel: +962333333333
Fax: +962333333333
Email: info@ryan.com.jo
Website: www.ryan.com.jo

Title: First & Second Floor Beams
& Slab Reinforcement Plan
Page: 5- 04/ 15



Proposed Eight Storey Extension At CHSE

Client: Ministry of Education
Project Number: R/2016/005
Date: December 2016

Architect: Fahimath Leena Jaleel
Structural Engineer: Fahimath Leena Jaleel
Drawn By: Fahimath Leena Jaleel
Services: Alkhatir Ahmed

Rev no

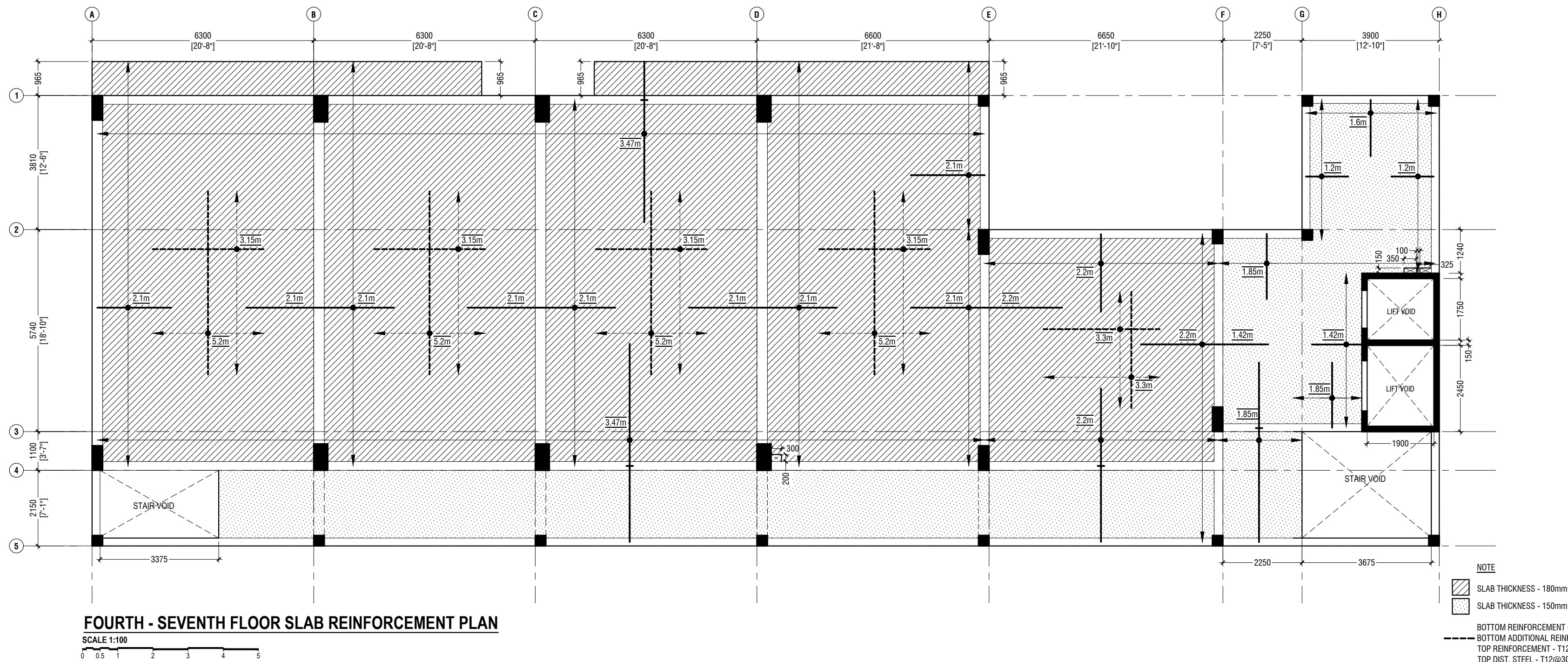
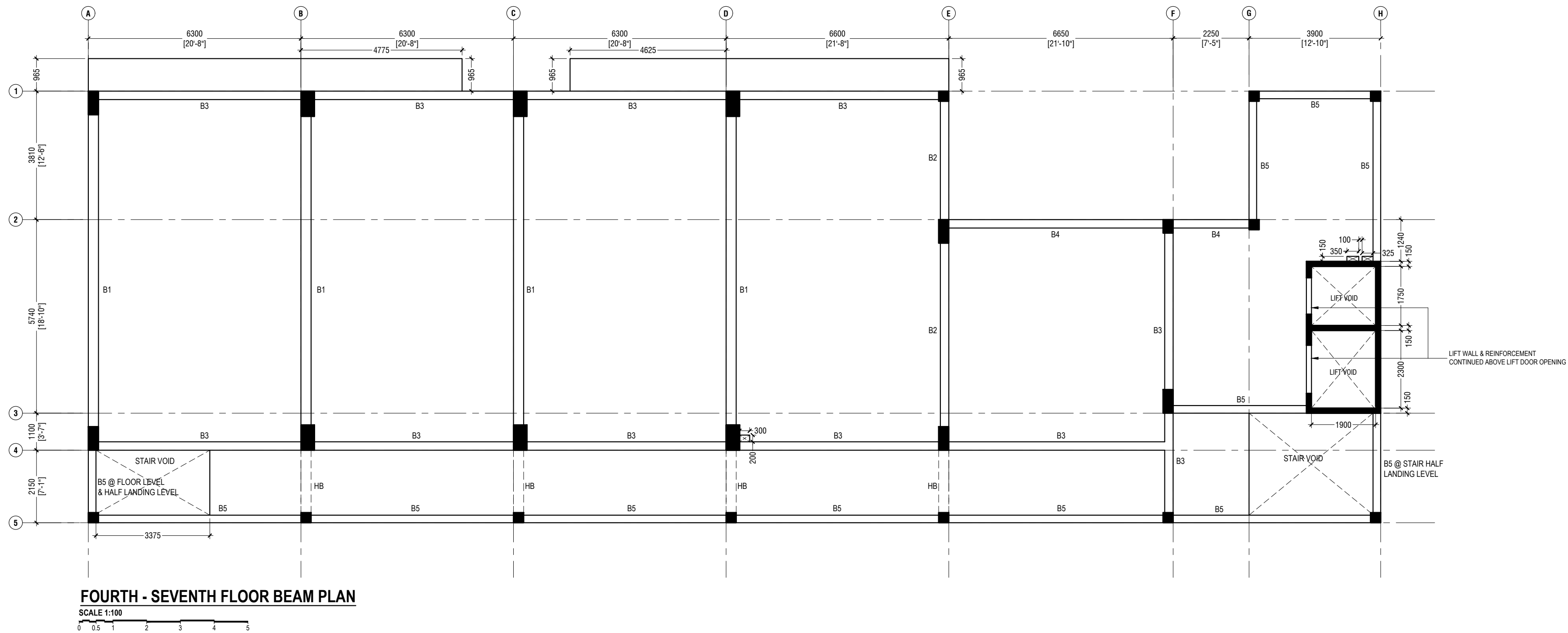
Date

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E: info@riyan.com.mv
W: www.riyan.com.mv
3rd Floor, H. Azam, Alkhatir Ahmed, Male'

Title: Third Floor Beam & Slab
Reinforcement Plan
Page: S- 05/ 15

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NOTE

- SLAB THICKNESS - 180mm
- SLAB THICKNESS - 150mm
- BOTTOM REINFORCEMENT - T12@150C/B/W (NOT SHOWN)
- BOTTOM ADDITIONAL REINFORCEMENT - T12@150C/B/W (AS SHOWN)
- TOP REINFORCEMENT - T12@150C/C (AS SHOWN, UNLESS STATED)
- TOP DIST. STEEL - T12@300C/C (UNLESS STATED)
- REINFORCEMENT DISCONTINUOUS AT VOIDS

Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education

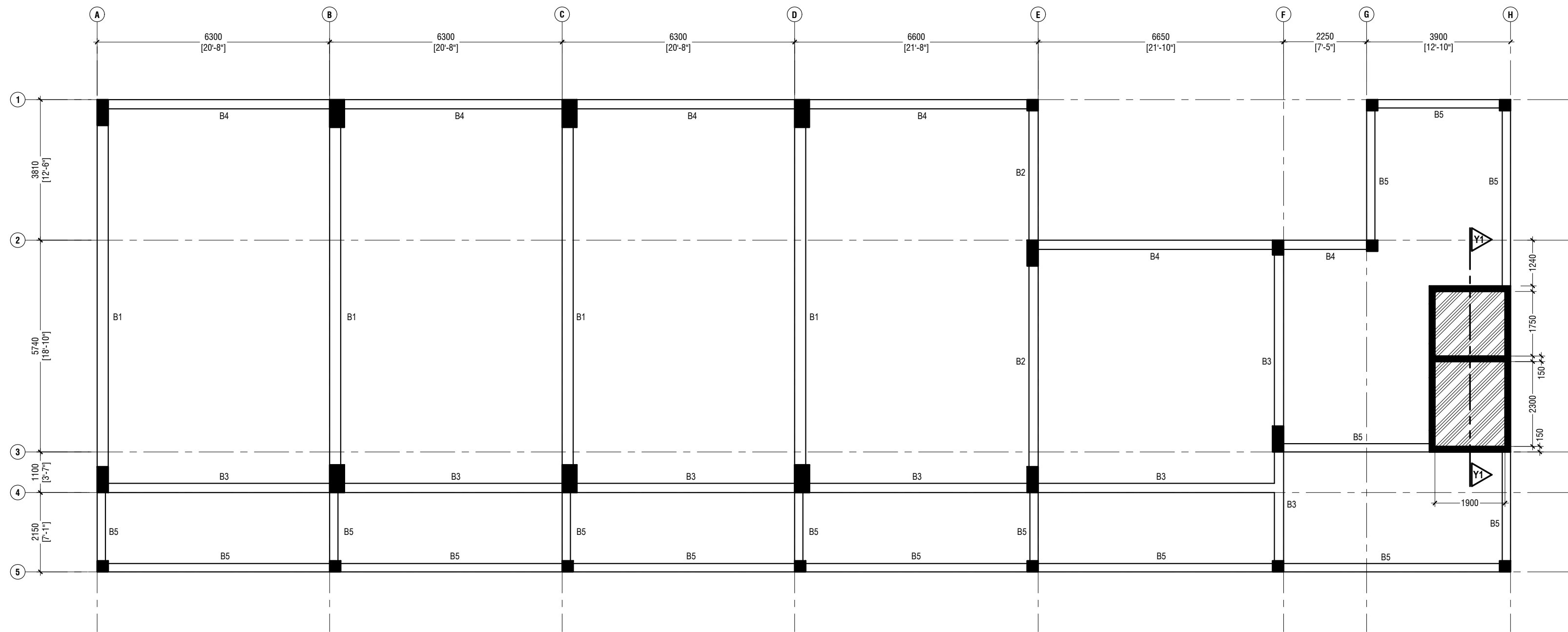
Project Number: 2021/05/005
Drawing Number: 206
Architect: Fahim Al-Jaberi
Engineer: Fahim Al-Jaberi
Services: Al-Jaberi & Partners



RYAN PRIVATE LIMITED
1: +9633315049 1: +9633330776
E: info@ryan.com.jv
W: www.ryan.com.jv
3rd floor, H. Al-Jaberi Building, Jeddah

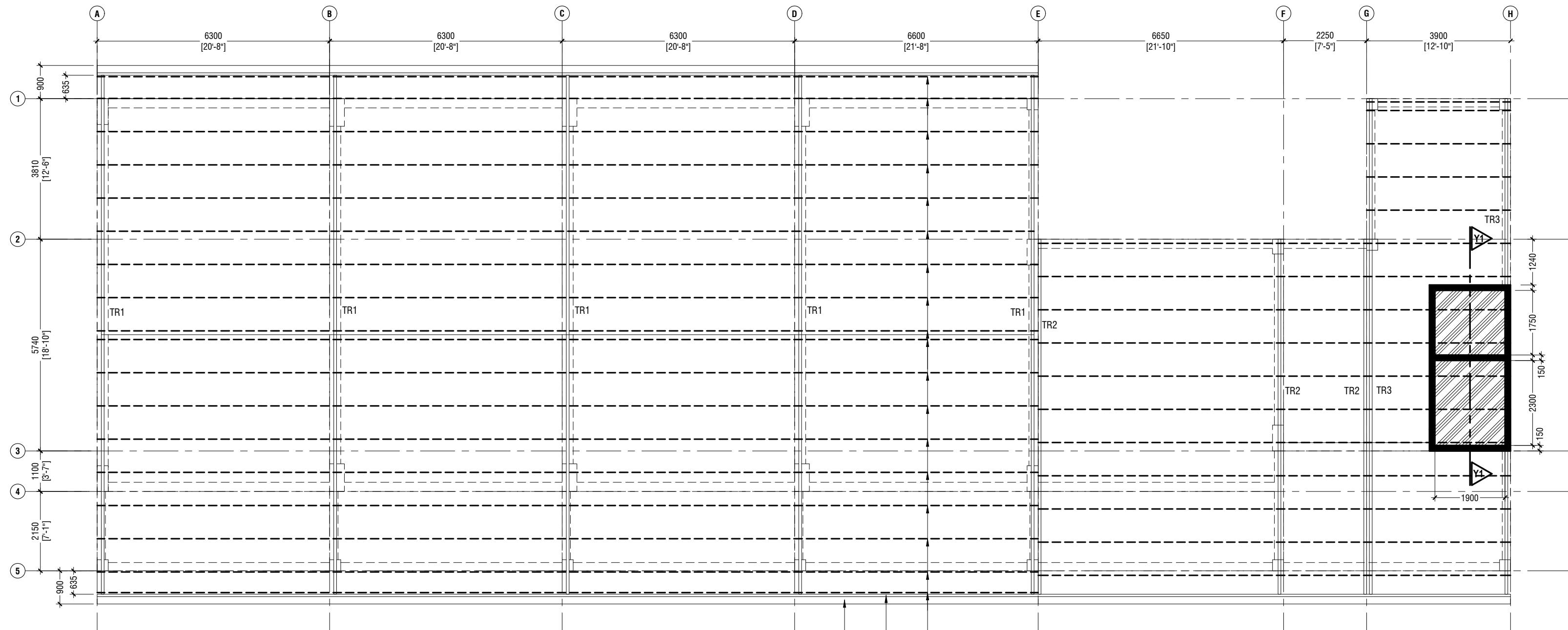
Title: Fourth-Sixth Floor Beam
Slab Reinforcement Plan
Page: 5- 06/ 15

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ROOF BEAM PLAN

SCALE 1:100



ROOF TRUSS & FRAMING PLAN

SCALE 1:100

Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: R/2016/005

Architect: Fatimah Leena Jaleel

Engineer: Fatimah Leena Jaleel

Services: Alshah Ahmed



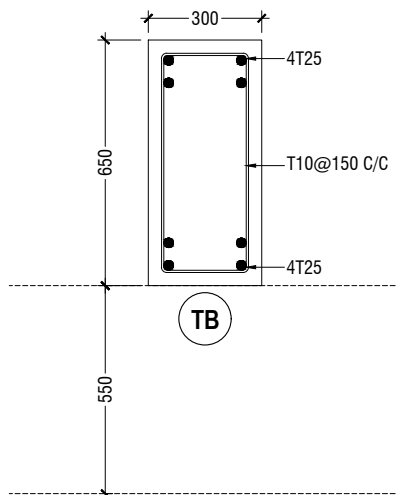
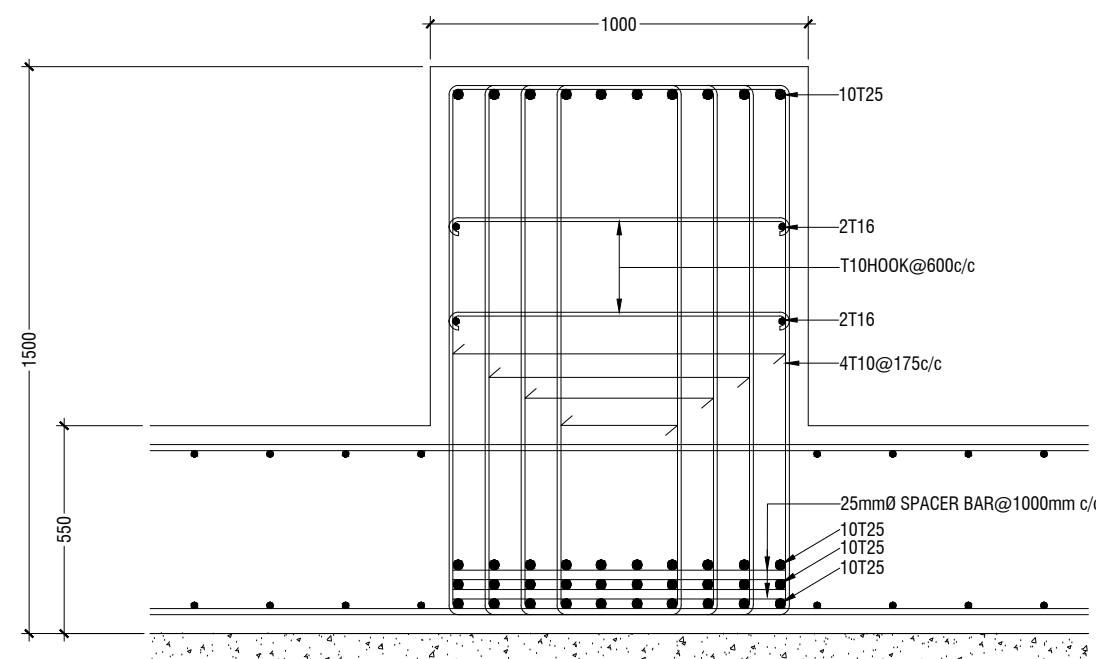
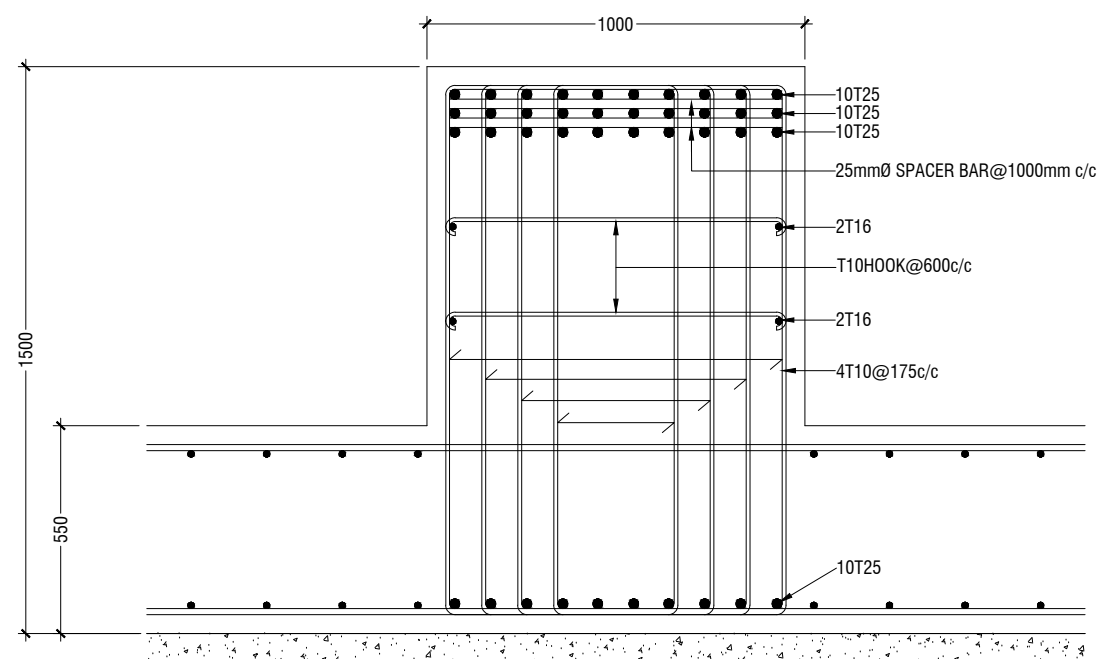
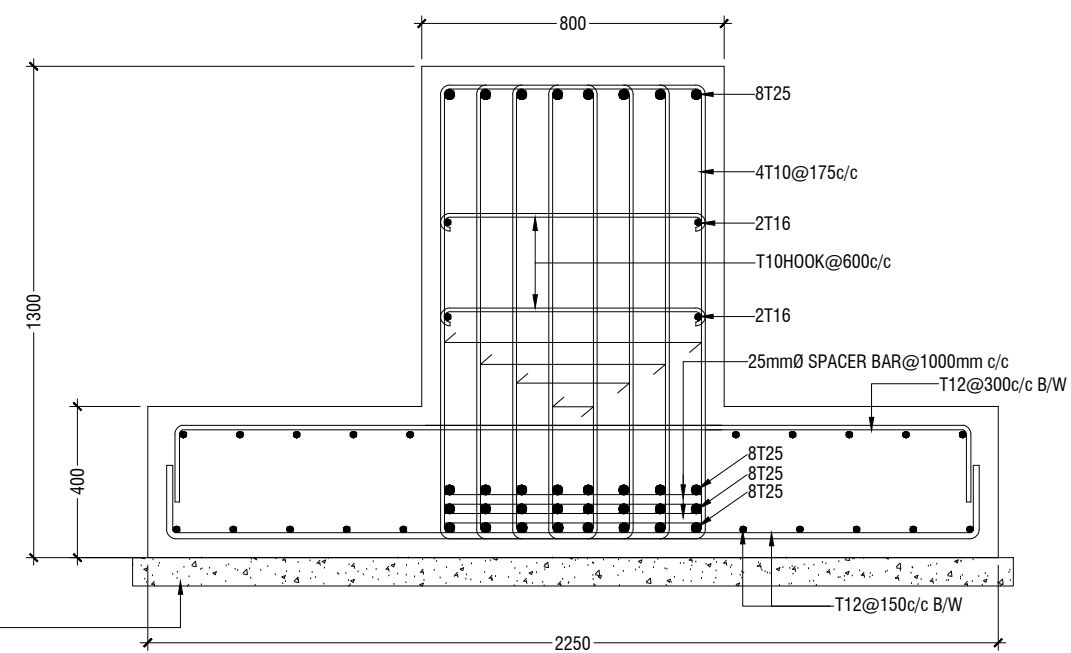
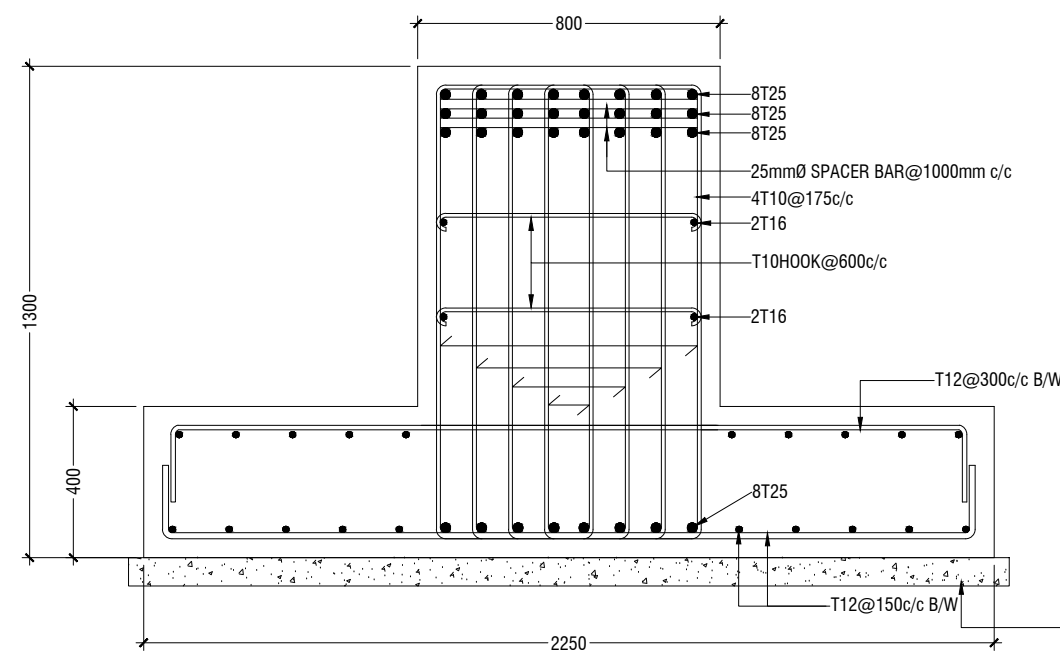
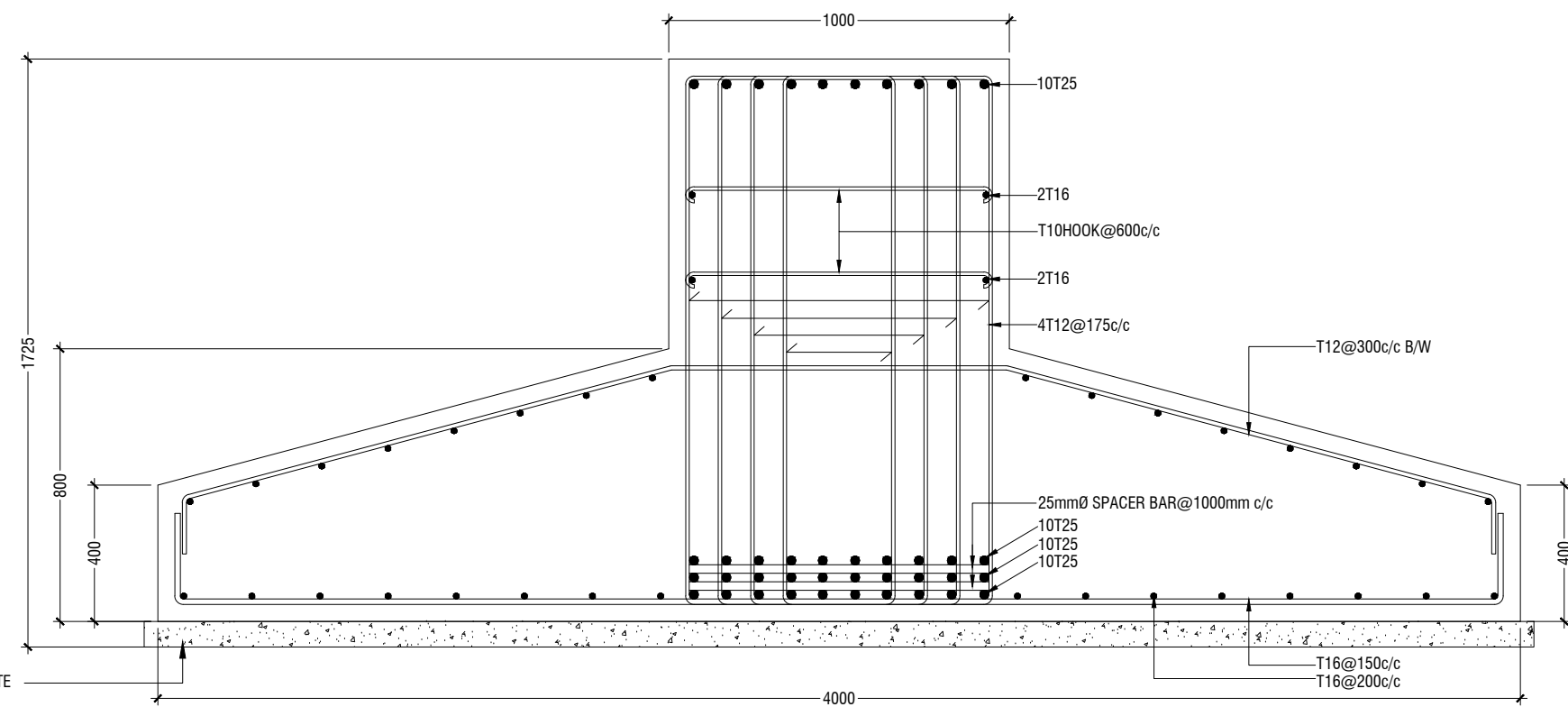
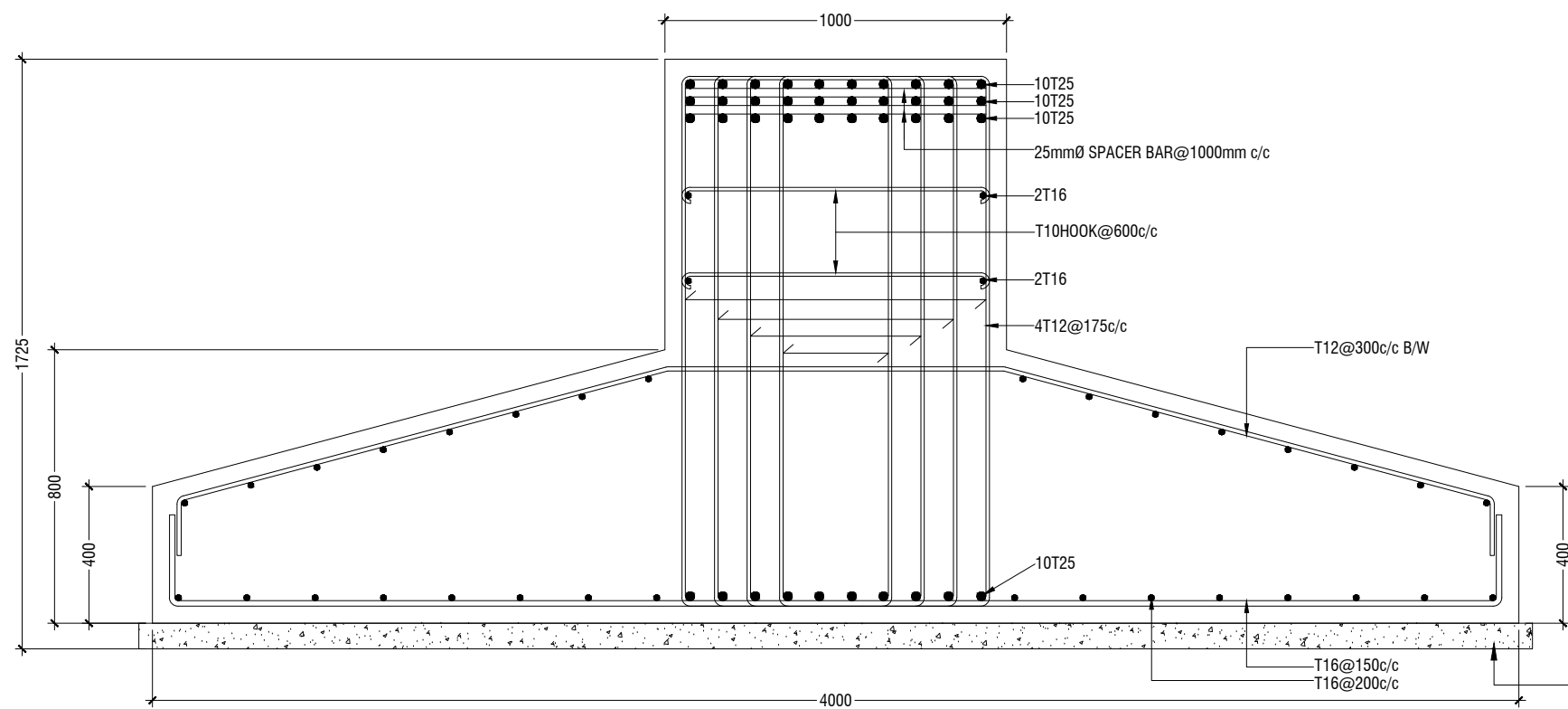
RYAN PRIVATE LIMITED

T: +9633215069 F: +963320776
E: info@ryan.com.nv
W: www.ryan.com.nv
3rd floor, H. Azam, Amman, Jordan

Title: Roof Beam, Roof Truss & Framing Plan

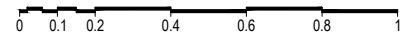
Page: 5-07/15

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STRUCTURAL DETAILS - 1

SCALE 1:20



Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education

Project Number: RI/2016/005

Date: December 2016

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

Drawn by: Fahimath Leena Jaleel

Checked by: Ahsan Waheed
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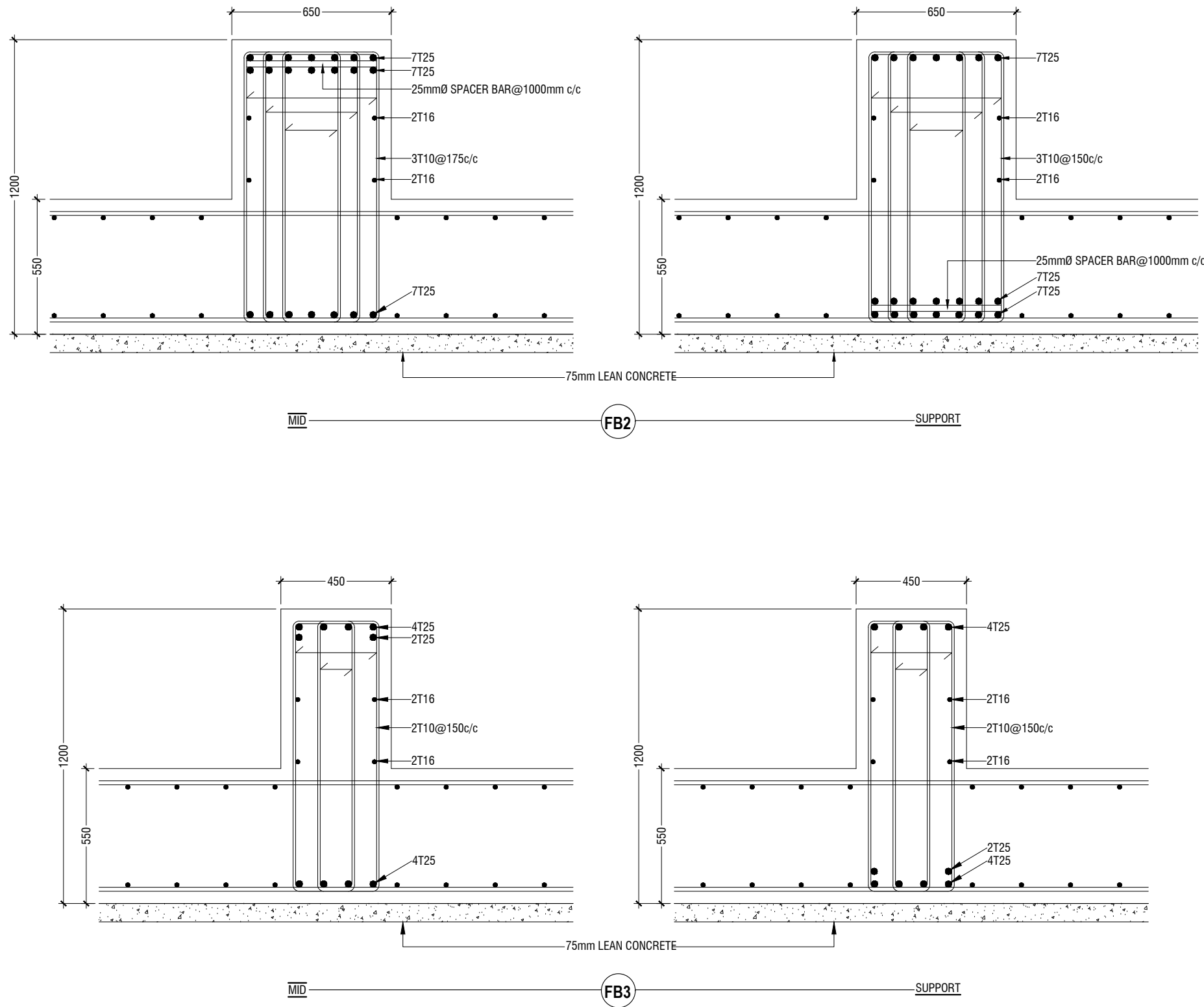


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W: www.riyan.com.mv
3rd floor, H. Azam, Vengalooru, Malé

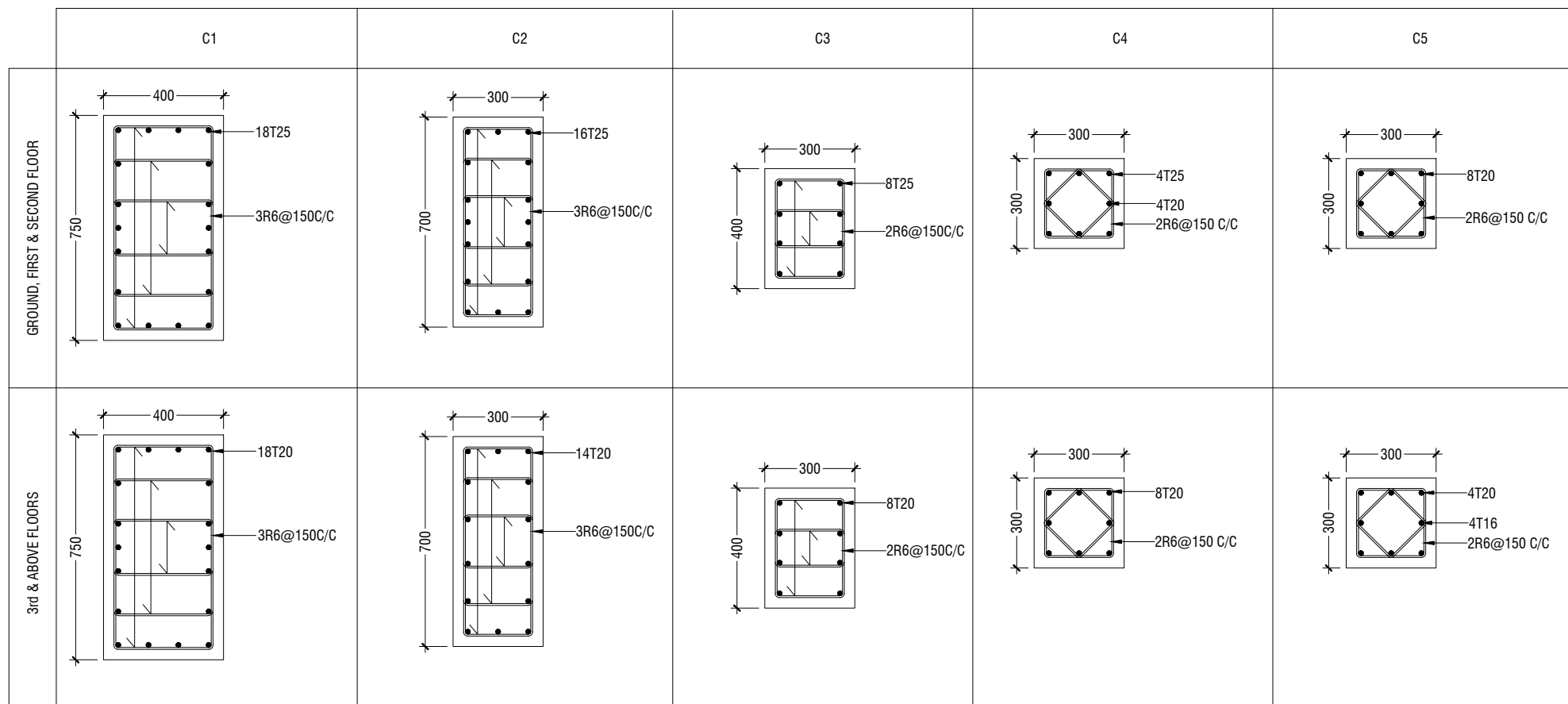
Title: Structural Details-1

Page: S- 08 / 15



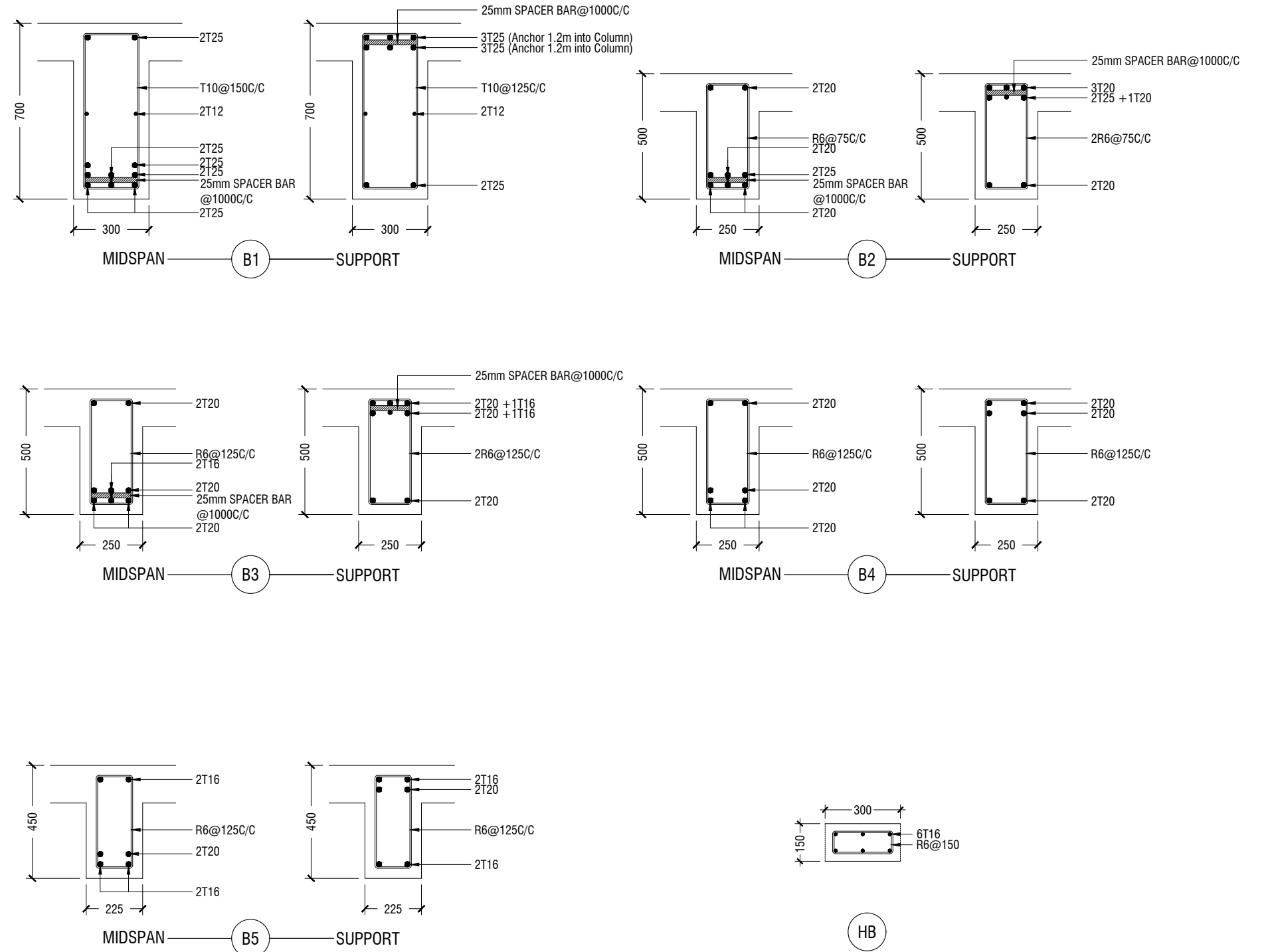
FOUNDATION BEAMS DETAIL

SCALE 1:20



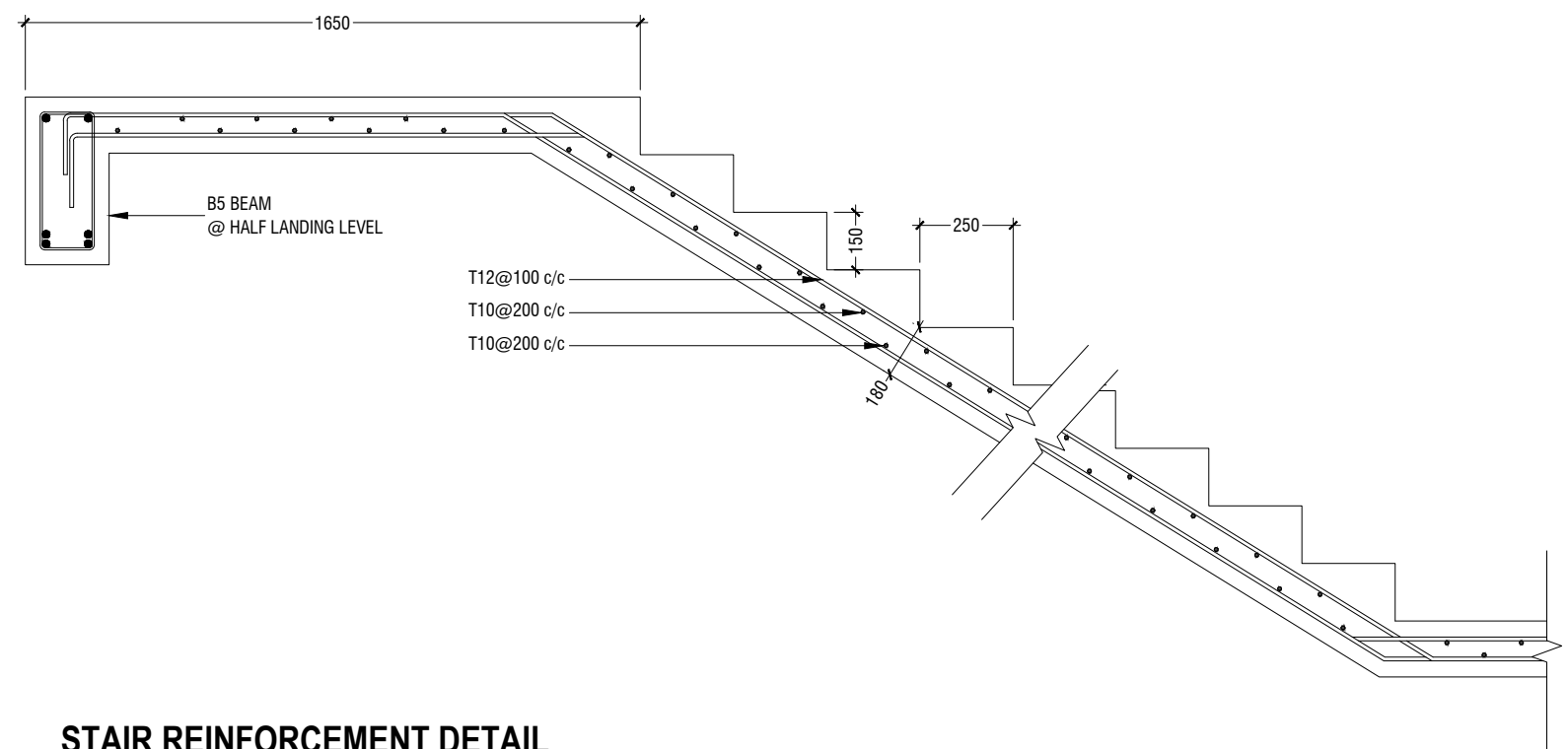
COLUMNS DETAIL

SCALE 1:20



BEAMS DETAIL

SCALE 1:20



STAIR REINFORCEMENT DETAIL

SCALE 1:20

**Proposed Eight Storey Extension
At CHSE**

Client: Ministry Of Education

Project Number: RI/2016/005

Date: December 2016

Architect: Fahimath Leena Jaleel

Engineer: Iqbal Waheed

Drawn by: Iqbal Waheed

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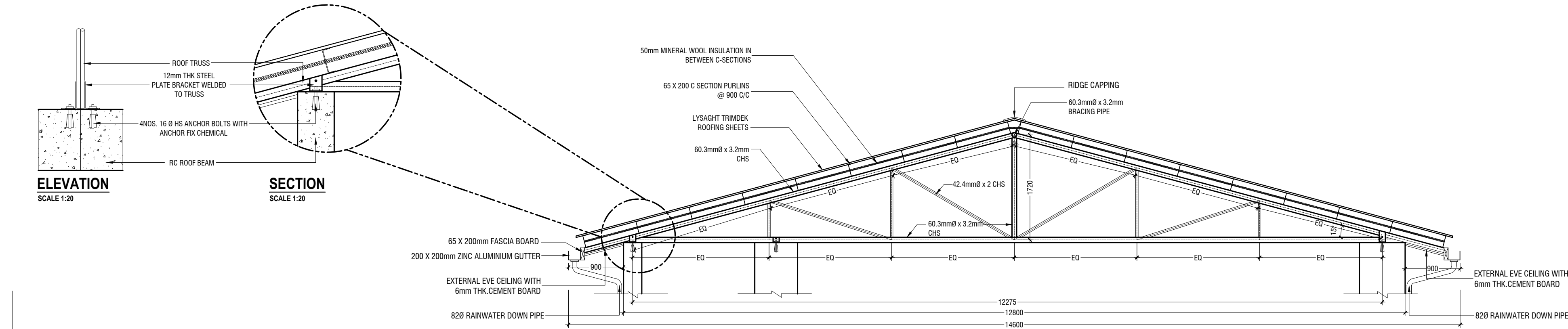


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3rd floor, H. Azam, Kumpalemmagui, Male'

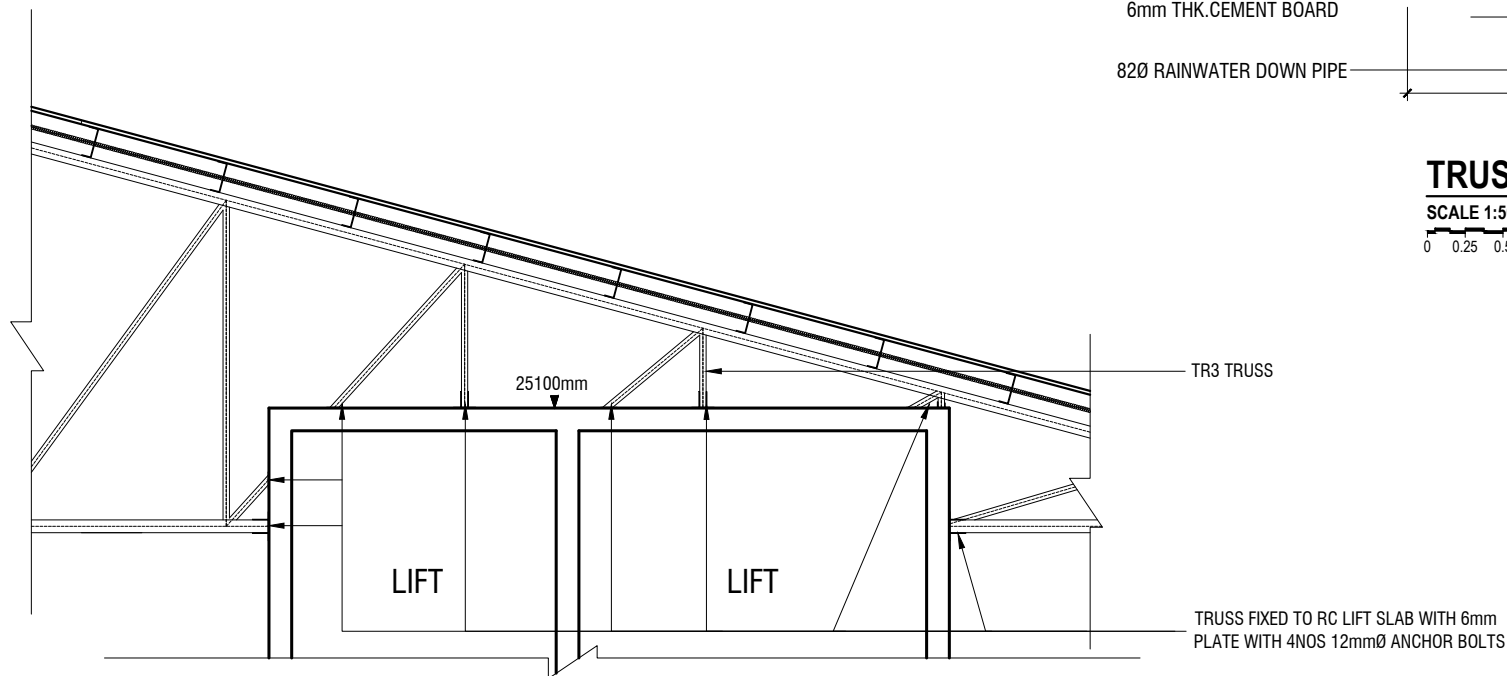
Title: Structural Details - 2

Page: S-09 / 15



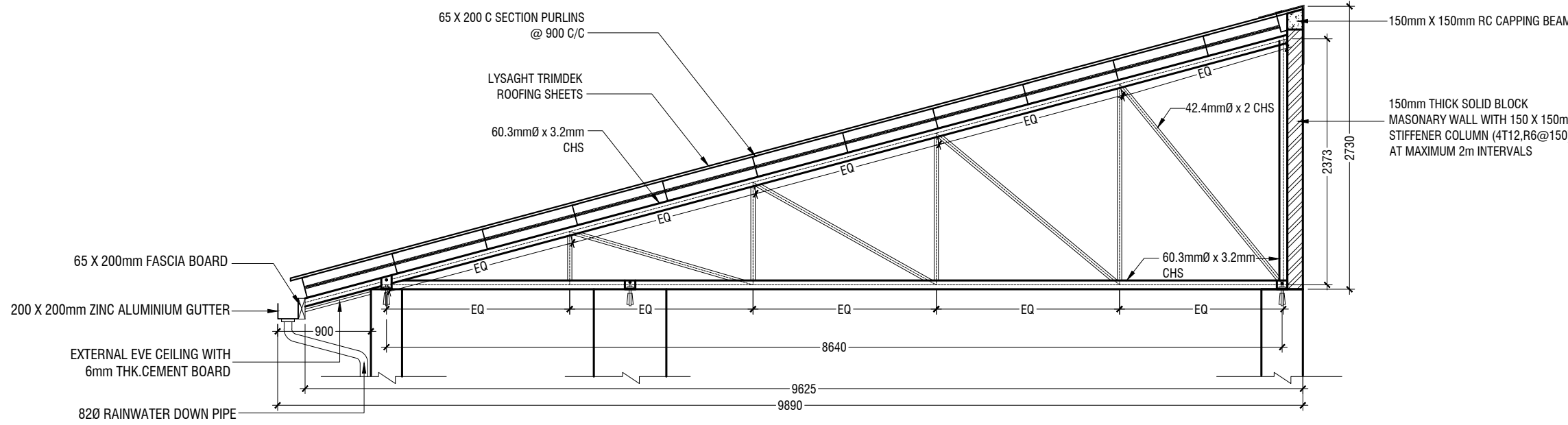
TRUSS TYPE TR1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



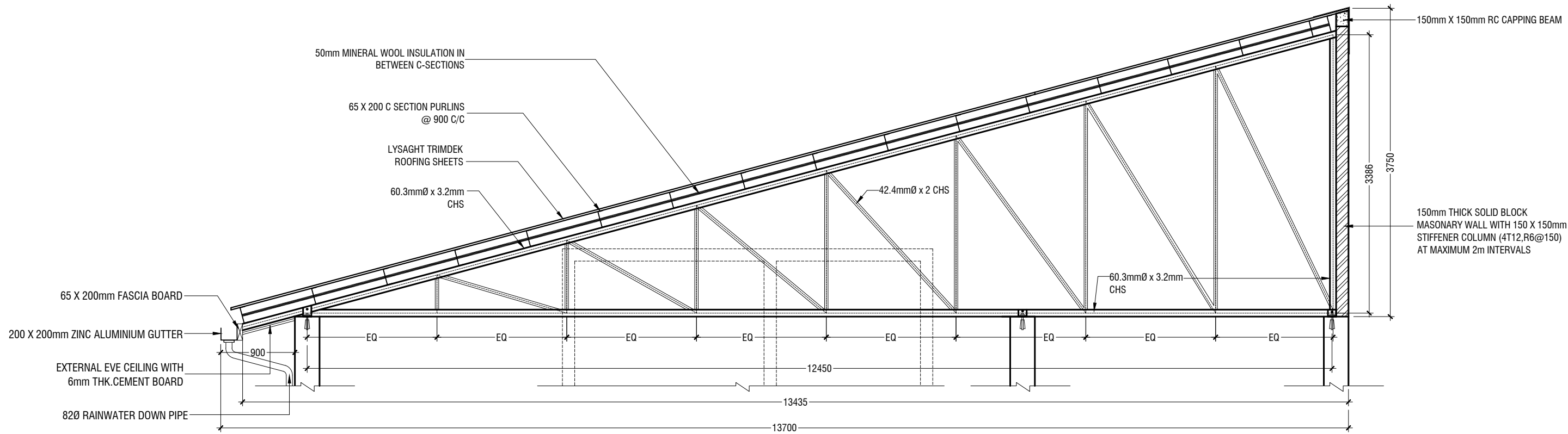
SECTION Y1-Y1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



TRUSS TYPE TR2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



TRUSS TYPE TR3

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

NOTE:

- ALL THE CHS SHALL HAVE MINIMUM YIELD STRESS OF 275MPa
- ALL WELDS SHALL BE 6mm THICK FULL PERIMETER FILLET WELDS
- ALL TRUSS ENDS SHALL BE END CAPPED WITH 6mm PLATES
- ALL TRUSS MEMBERS SHALL BE PROTECTED WITH ANTI CORROSIVE COAT

**Proposed Eight Storey Extension
At CHSE**

Client: Ministry Of Education

Project Number: RJ/2016/005

Date: December 2016

Architect: Fatimah Leena Jaleel

Structural Engineer: Fatimah Leena Jaleel

Services: Alqath Altried

Rev no

Date

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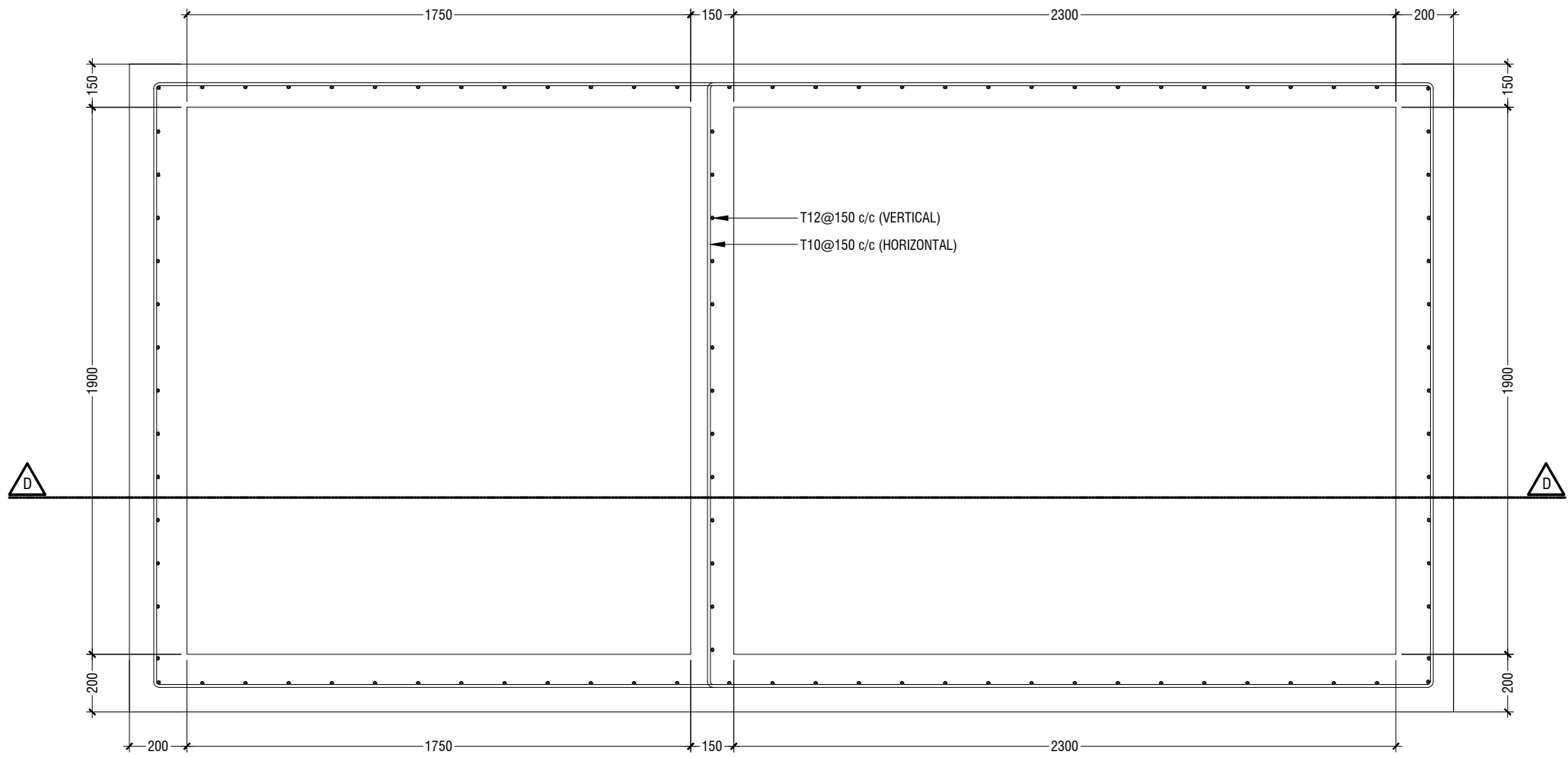


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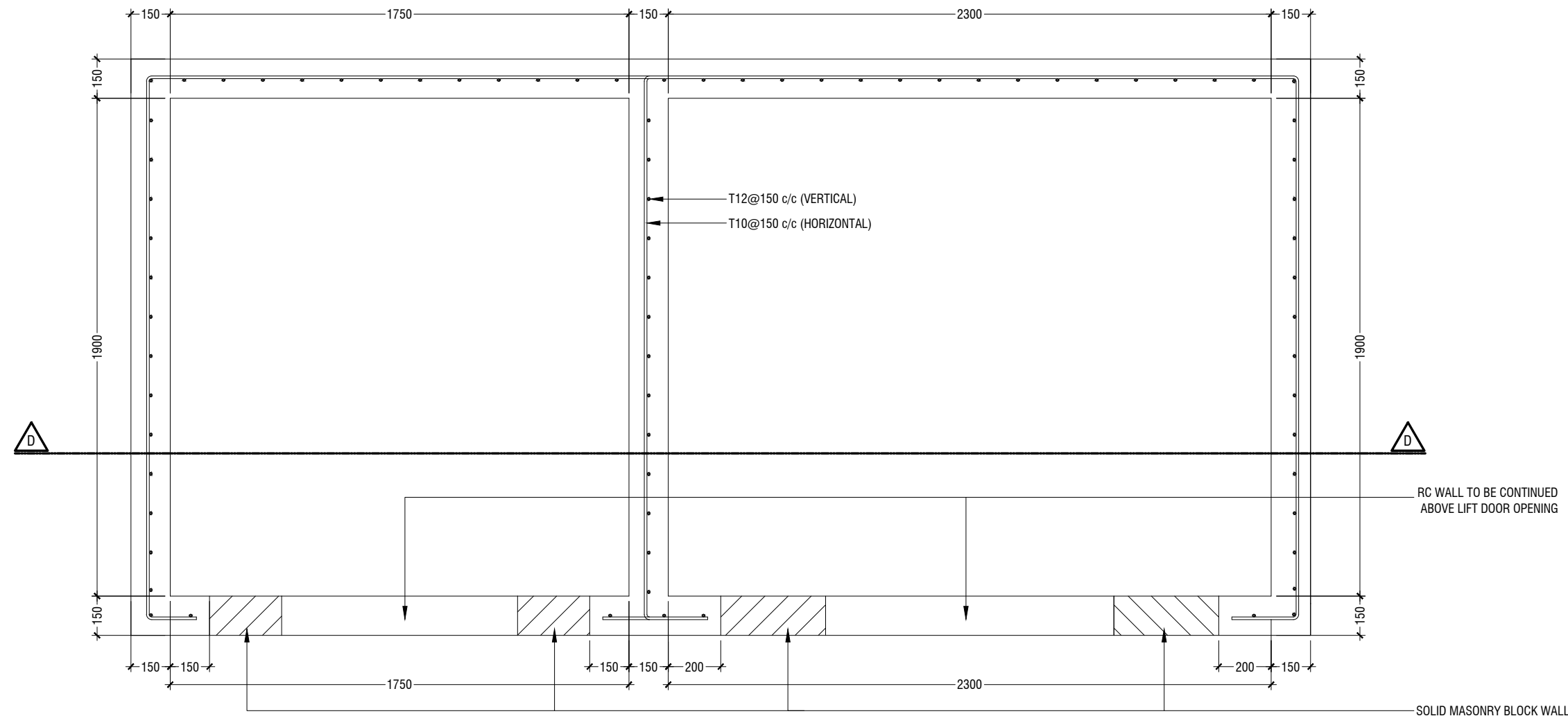
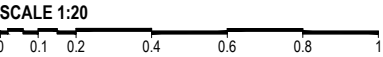
T: +960335049 F: +960330776
E: info@ryan.com.mv
W: www.ryan.com.mv
3rd floor, H. Azam, Ammanemegga, Malé

Title: Roof Truss Details

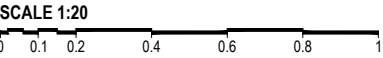
Page: S- 10 / 15



PLAN (UP TO GROUND LEVEL)

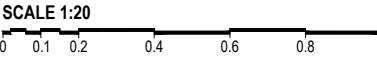


PLAN (ABOVE GROUND LEVEL)



NOTE:-
- ALL CONCRETE WORKS BELOW GL & TERRACE LEVEL
TO BE TREATED W/ SIKKA WATERPROOFING CHEMICAL/EQUIVALENT

LIFT PIT / WELL DETAILS



Proposed Eight Storey Extension
At CHSE

Client: Ministry Of Education

Project Number: RJ/2016/005

Date: December 2016

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waleed

Services: Ashraf Ahmed

Rev no

Date

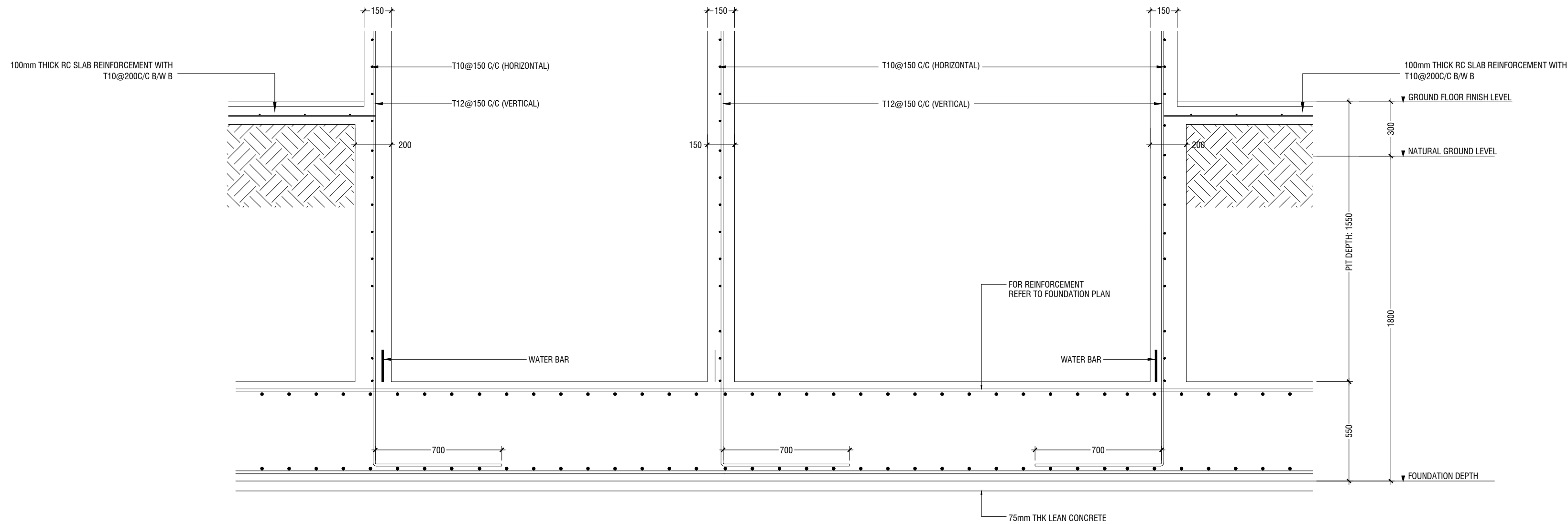


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3rd floor, H. Azam, Amereemogai, Male'

Title: Lift Pit / Well Details

Page: S - 11 / 15

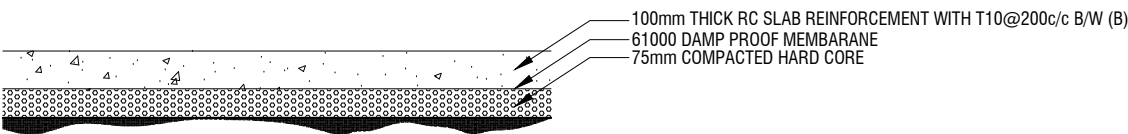
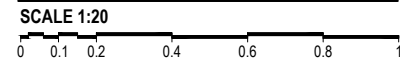
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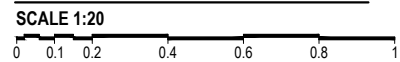
SECTION D - D

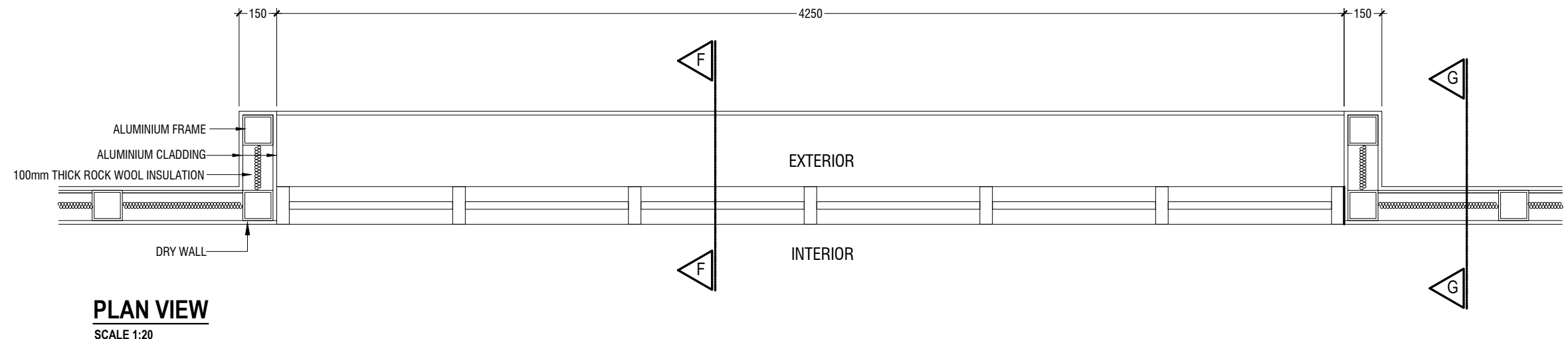
NOTE:-
- ALL CONCRETE WORKS BELOW GL & TERRACE LEVEL
TO BE TREATED W/ SIKKA WATERPROOFING CHEMICAL/EQUIVALENT

LIFT PIT / WELL DETAILS

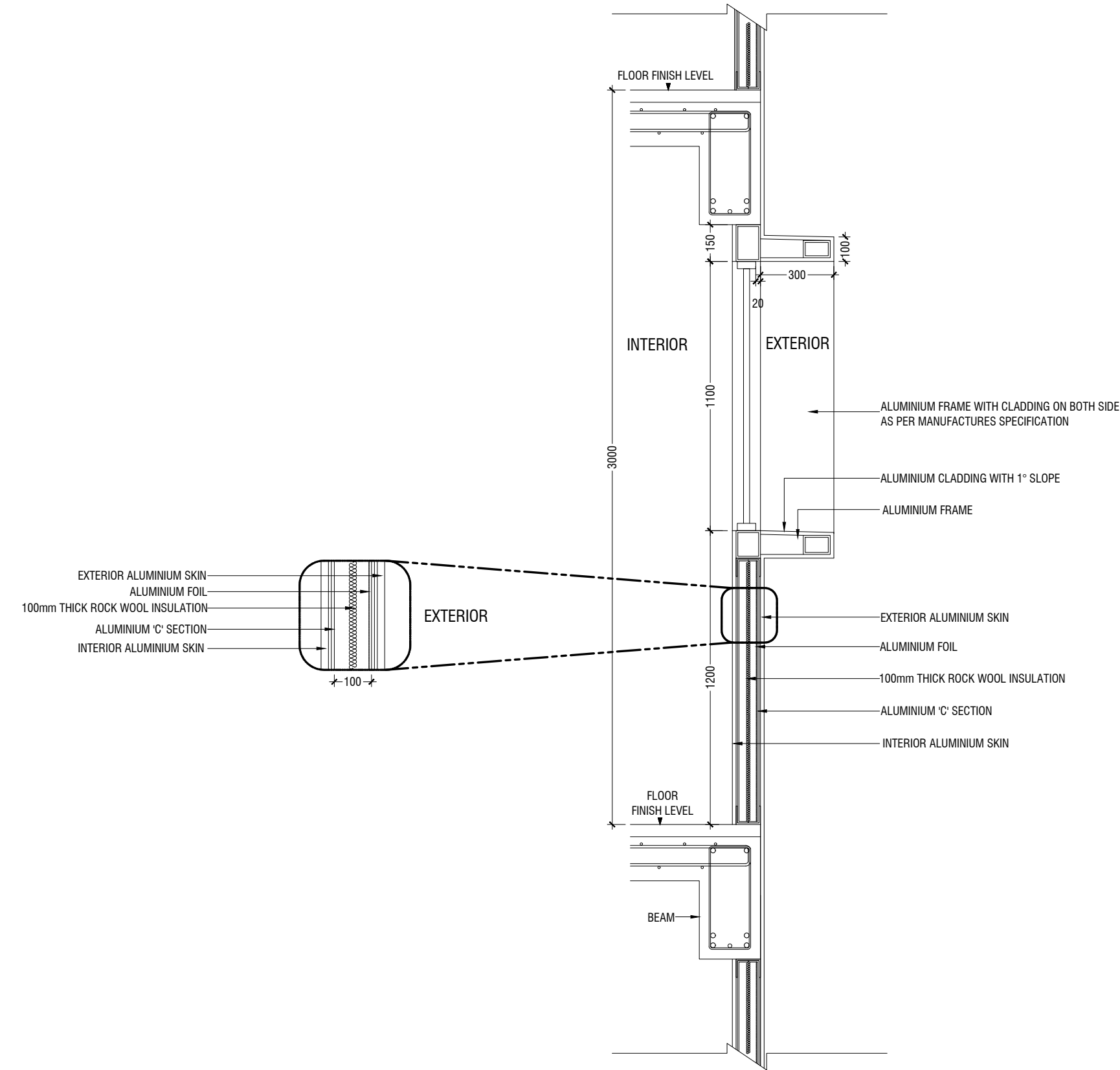


GROUND SLAB DETAIL

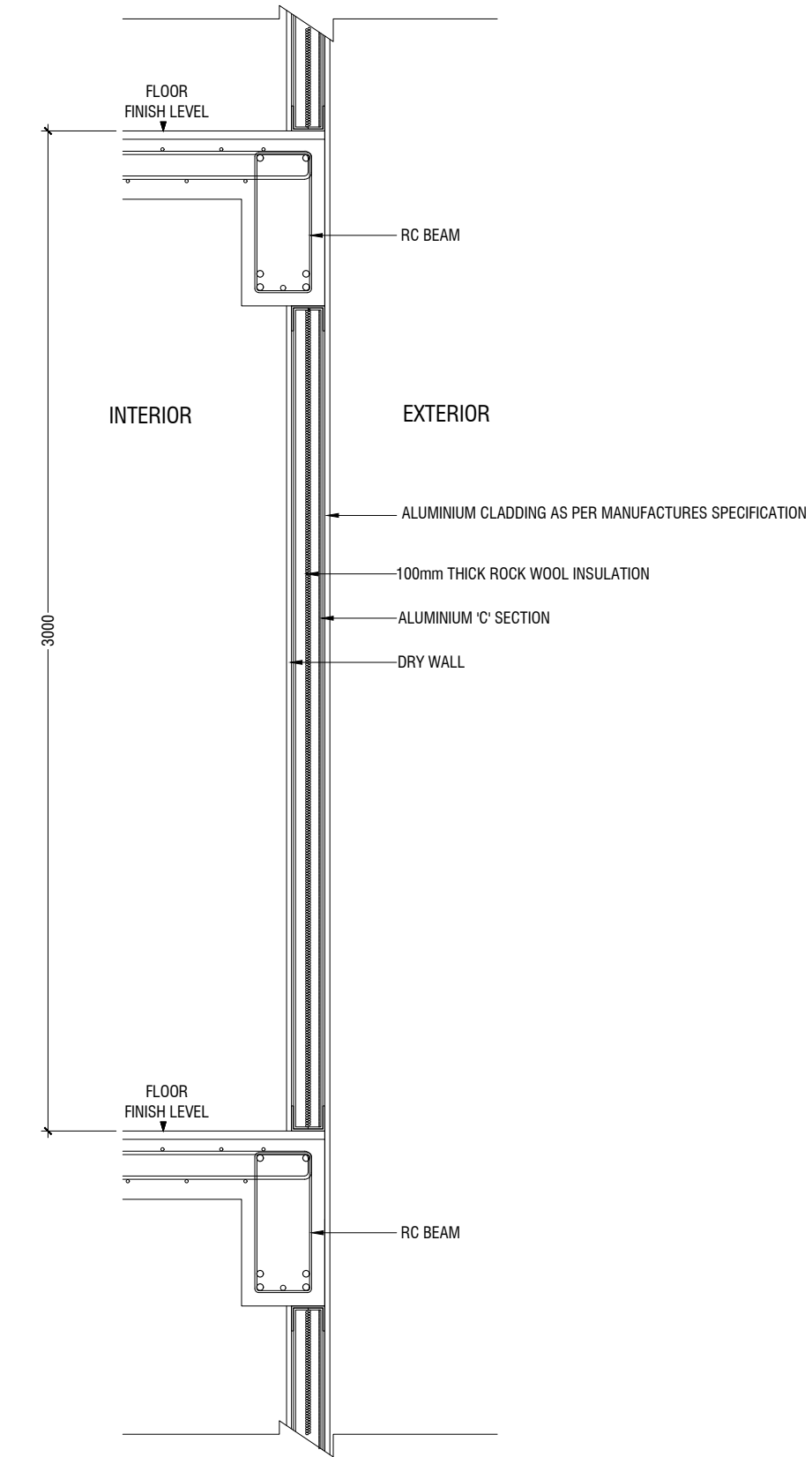




PLAN VIEW
SCALE 1:20

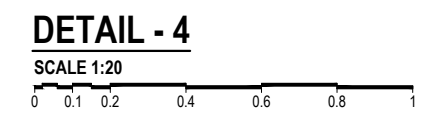


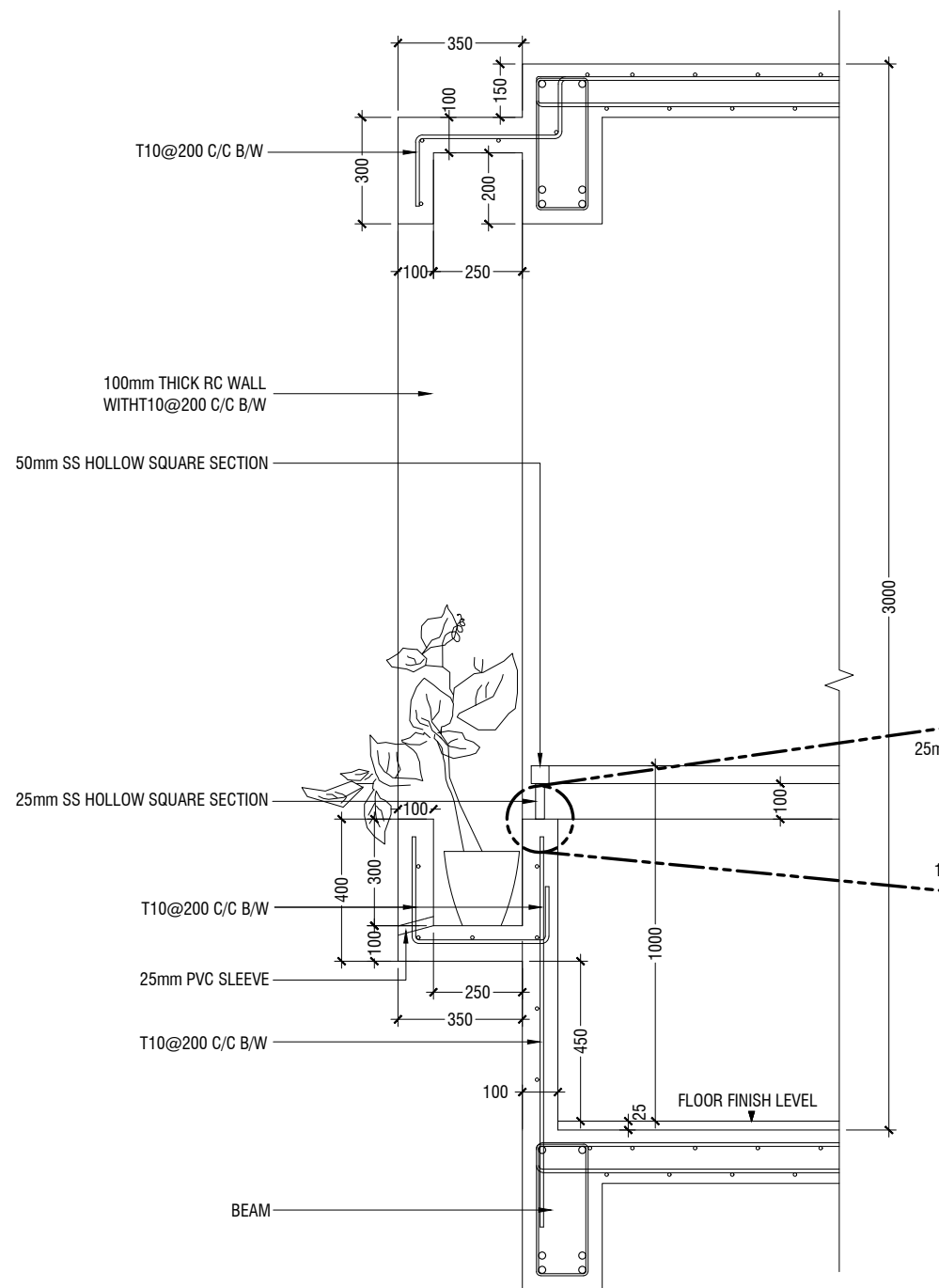
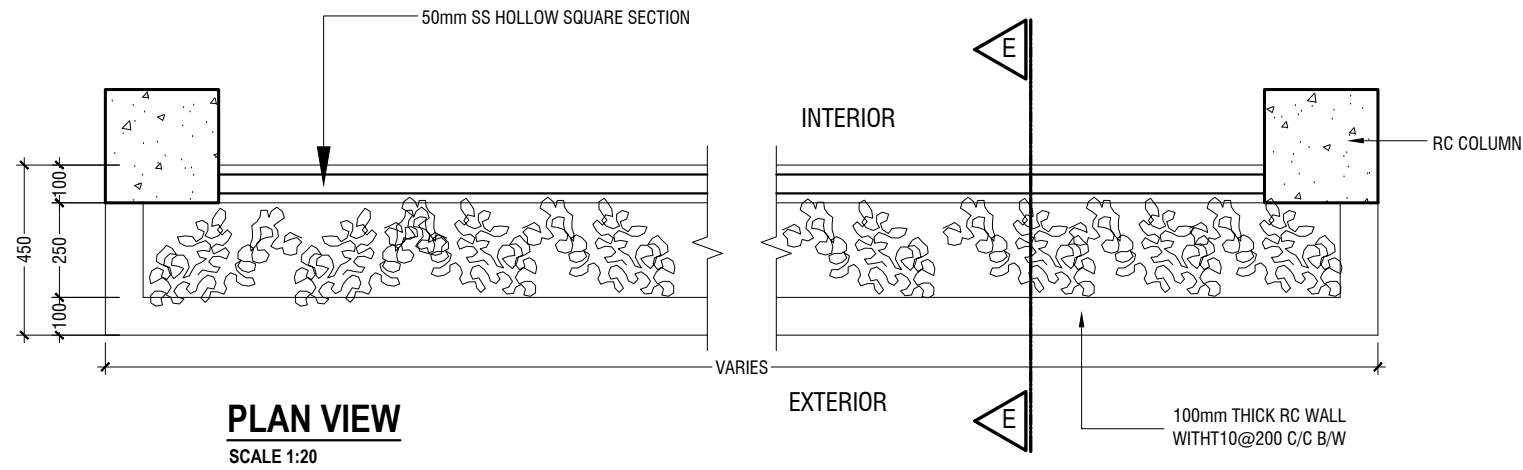
SECTION E - E (FIRST - SEVENTH)
SCALE 1:20



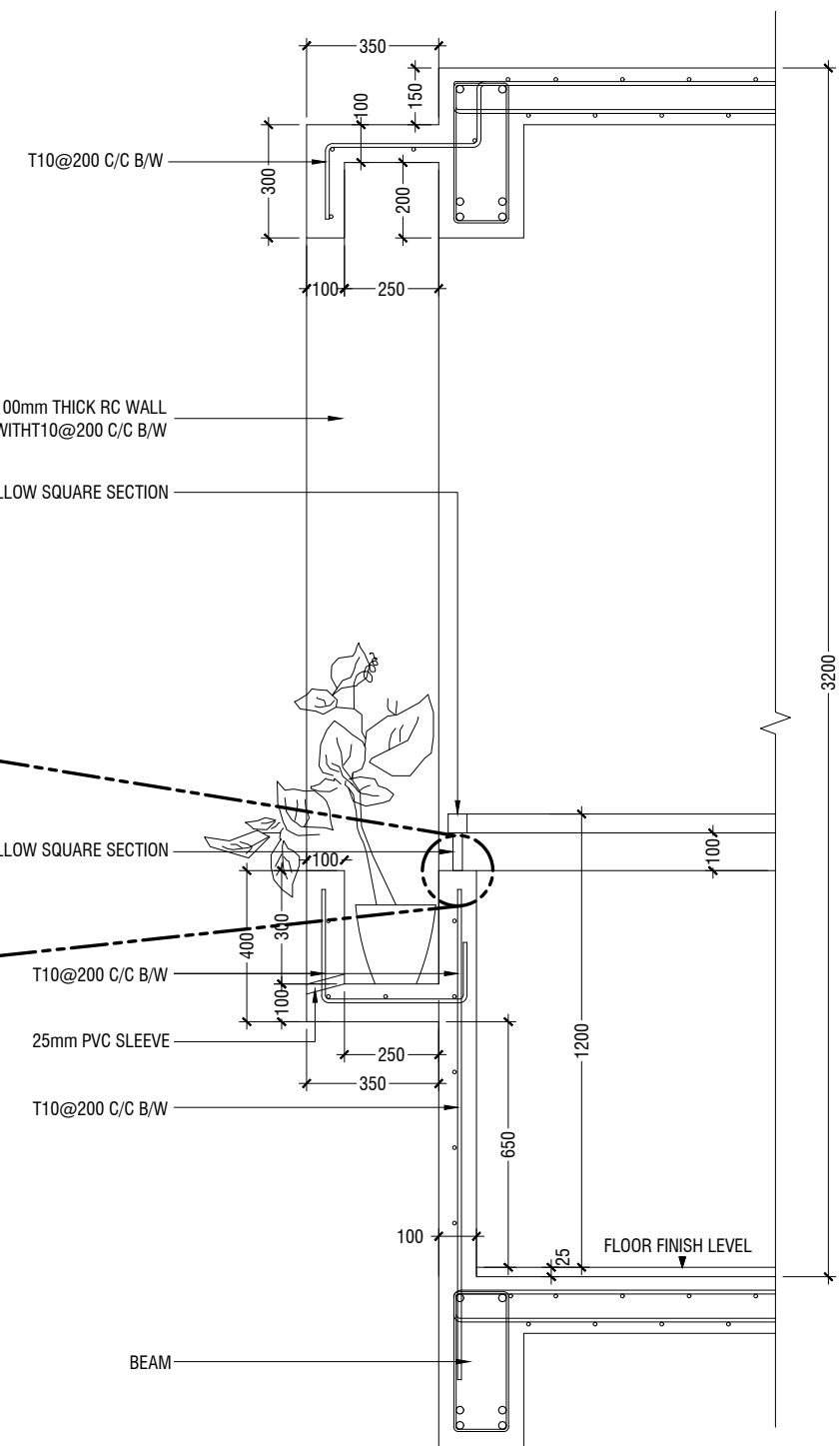
SECTION G - G
SCALE 1:20

NOTE:-
ENSURE MANUFACTURER SPECIFICATION OF INSULATION (100mm) IS SUFFICIENT
TO PROVIDE +7°C DIFFERENCE BETWEEN EXTERNAL & INTERNAL SPACE





SECTION F-F (FIRST - SIXTH FLOOR)
SCALE 1:20



SECTION E-E (SEVENTH FLOOR)
SCALE 1:20

DETAIL - 5

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

**Proposed Eight Storey Extension
At CHSE**

Client: Ministry Of Education

Project Number: RC2016/005
Drawing Number: 206
Architect: Fahimath Leena Jaleel
Engineer: Fariha Waseed
Drawn by: Fahimath Leena Jaleel
Services: Alhath Ahmed

Rev no Date
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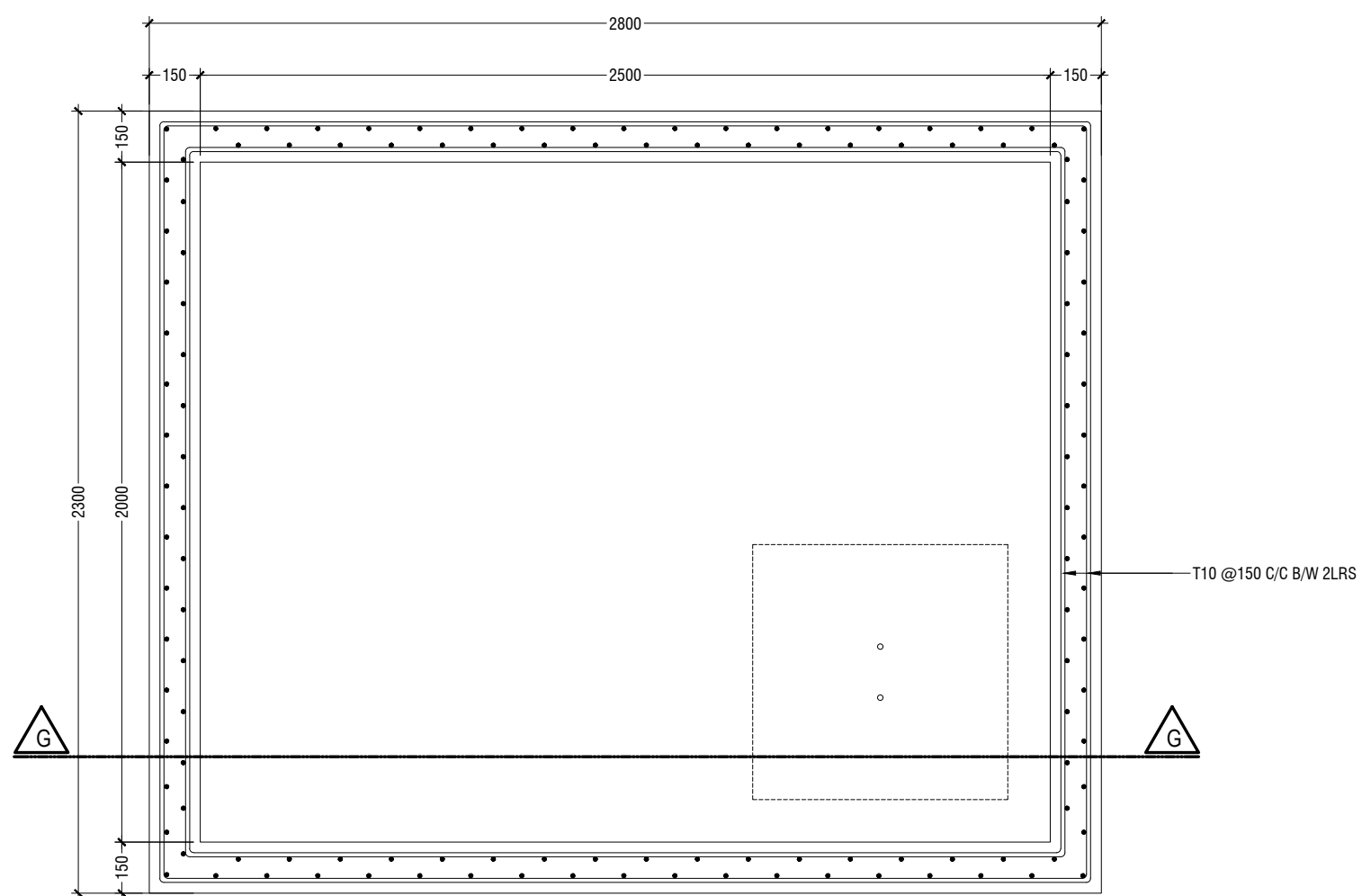
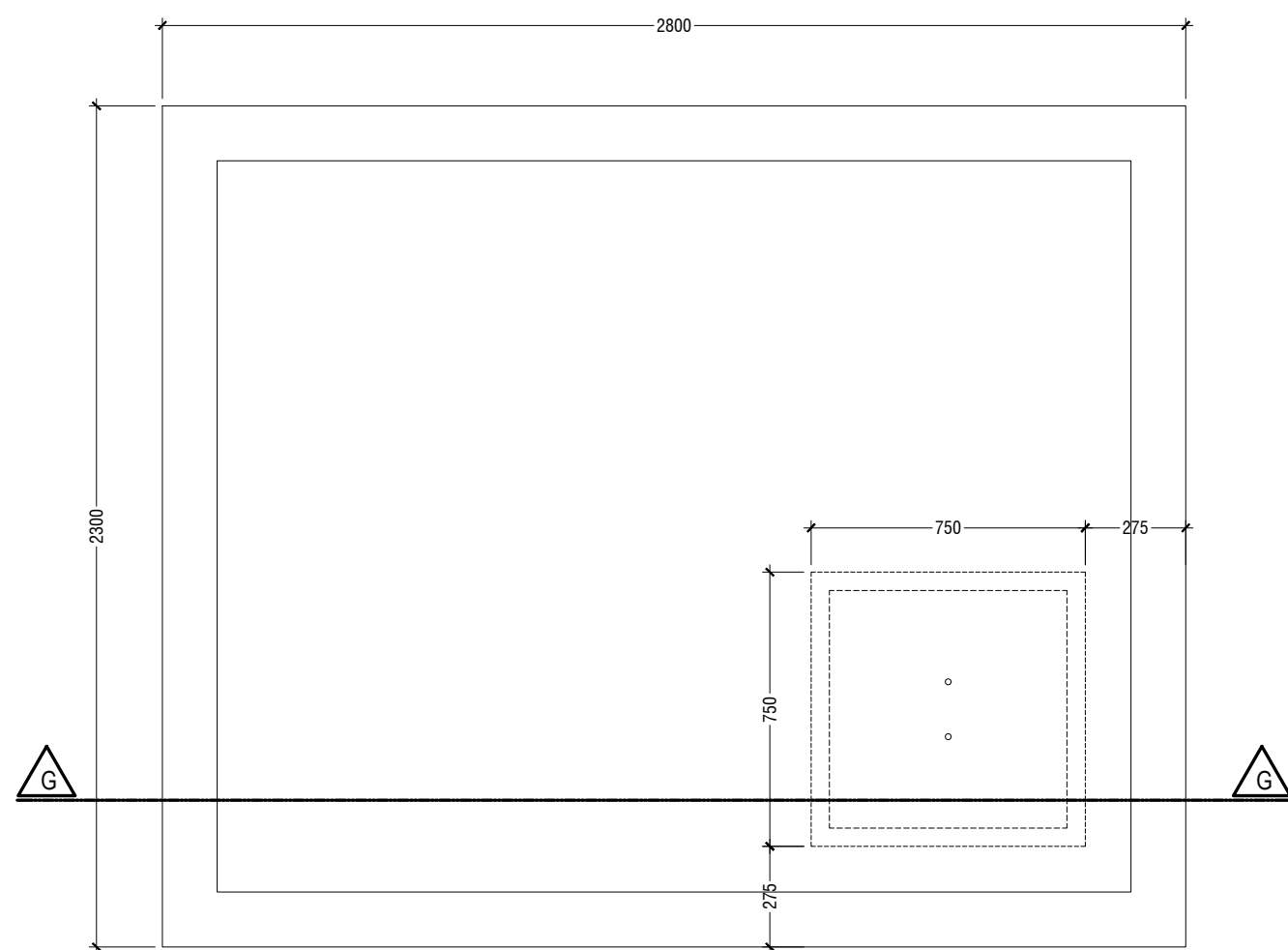
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E: info@ryan.com.mv
W: www.ryan.com.mv
3rd floor, H. Azum, Arinextech Plaza, Male'

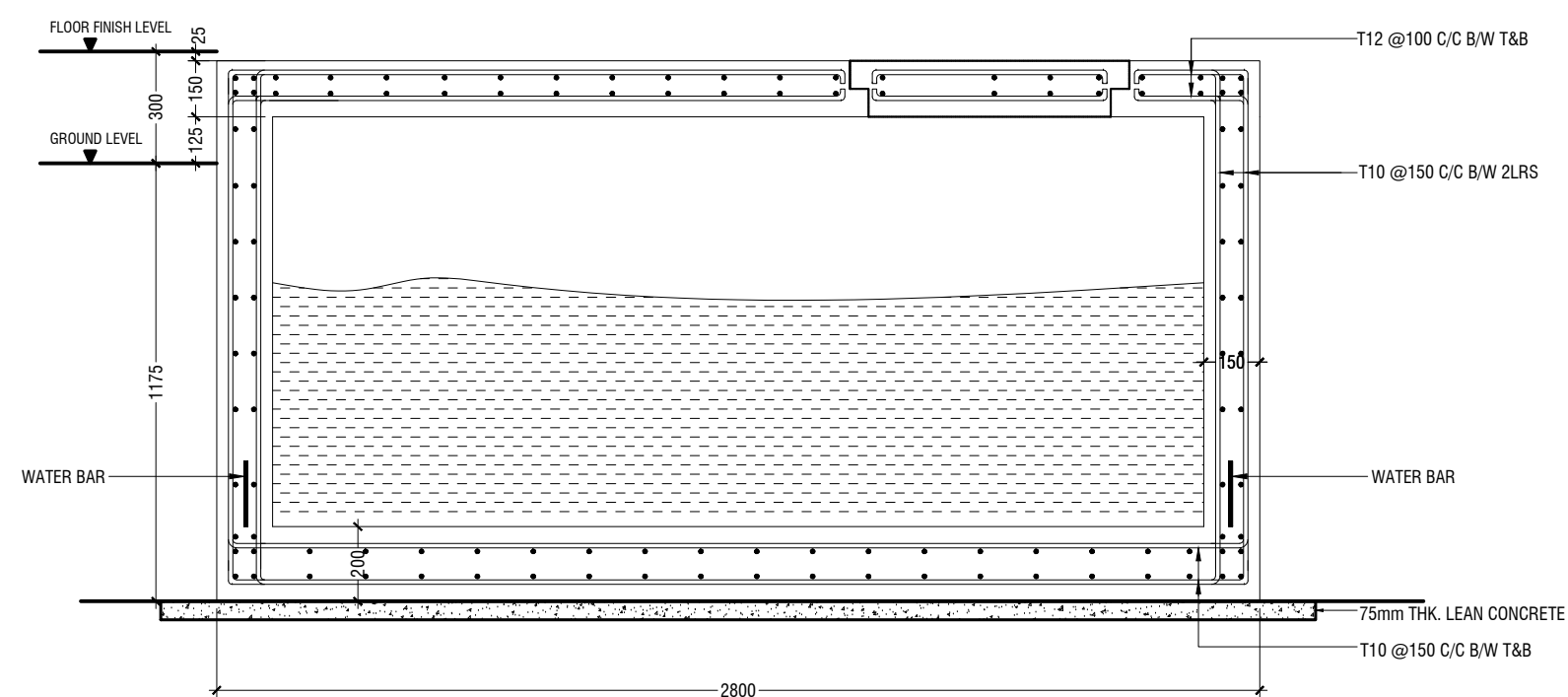
Title: Detail 5

Page: S- 14 / 15

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NOTE:-
- PROVIDE CORNER BARS 3T12@50c/c T/B AT ALL THE OPENINGS



GROUND WATER TANK DETAILS

SCALE 1:20

