

ARCHITECTURAL & STRUCTURAL DRAWINGS OF
PROPOSED 04 STOREY BUILDING

Hdh Kumundhoo 4 Storey Classroom Block

For Ministry of Education, Maldives

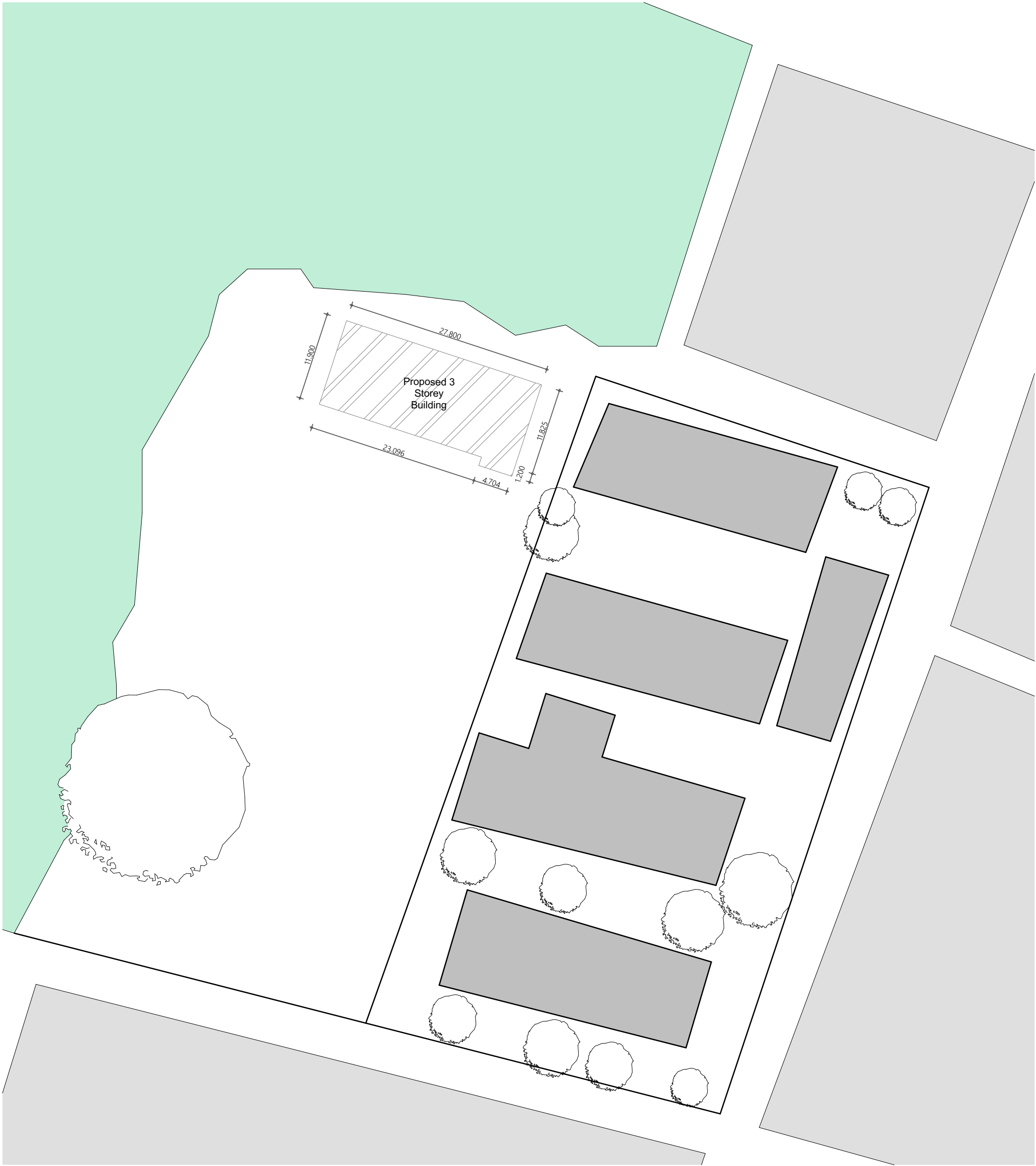


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KUMUNDHOO SCHOOL
HDH KUMUNDHOO, MALDIVES

Location Plan



Site Plan (source: google map)
1:500



Ground Floor
1:100

Wall Legend	
2D Plan Preview	Description
	100mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint
	100mm thick reinforced concrete wall per engineers detail, waterproofed with waterproofing agent
	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint
	150mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint

Zone schedule							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
Ground Floor	Classroom 1	53.80	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Classroom 2	54.28	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Classroom 3	54.28	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Cleaner closet	4.35	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Corridor	76.10	+335	Self levelling cement floor screed with epoxy floor paint	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm Plastering, ground smooth in selected paint finish
Ground Floor	Store	7.30	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Toilet (F)	11.07	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Ground Floor	Toilet (M)	11.15	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Ground Floor	Toilet for disabled	6.82	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

PROPOSED 03 STOREY BUILDING AT

**Hdh Kumundhoo
4 Storey Building
with 12 classroom**

Client
**Ministry of Education,
Maldives**

4/1/2021

Architect: Fathmath Ihudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir



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Rev: Page:
A.03.1



First Floor
1:100

Wall Legend	
2D Plan Preview	Description
	100mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint.
	100mm thick reinforced concrete wall per engineers detail, waterproofed with waterproofing agent.
	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint.
	150mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint.

Zone schedule							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
First Floor	Classroom 4	54.06	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6550	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint.
First Floor	Classroom 5	54.28	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6550	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint.
First Floor	Classroom 6	54.28	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6550	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint.
First Floor	Cleaner closet	11.57	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6550	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint.
First Floor	Corridor	74.25	+3535	Self levelling cement floor screed with epoxy floor paint	+6550	Exposed slab soffit to be ground smooth in select paint finish	16mm Plastering, ground smooth in selected paint finish
First Floor	Store	7.30	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6550	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint.
First Floor	Toilet (F)	11.07	+3525	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+6100	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
First Floor	Toilet (M)	11.15	+3525	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+6100	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

PROPOSED 03 STOREY BUILDING AT

**Hdh Kumundhoo
4 Storey Building
with 12 classroom**

Client
**Ministry of Education,
Maldives**

4/1/2021

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Second Floor
1:100

Wall Legend	
2D Plan Preview	Description
	100mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint.
	100mm thick reinforced concrete wall per engineers detail, waterproofed with waterproofing agent.
	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint.
	150mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint.

Zone schedule							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
Second Floor	Classroom 7	54.06	+6700	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Classroom 8	54.28	+6700	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Classroom 9	54.28	+6700	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Cleaner closet	11.57	+6700	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Corridor	74.36	+6685	Self levelling cement floor screed with epoxy floor paint	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm Plastering, ground smooth in selected paint finish
Second Floor	Store	7.30	+6700	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Toilet (F)	11.07	+6675	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Second Floor	Toilet (M)	11.15	+6675	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

PROPOSED 03 STOREY BUILDING AT

**Hdh Kumundhoo
4 Storey Building
with 12 classroom**

Client
**Ministry of Education,
Maldives**

4/1/2021

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Third Floor
1:100

Wall Legend	
2D Plan Preview	Description
	100mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint
	100mm thick reinforced concrete wall per engineers detail, waterproofed with waterproofing agent
	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint
	150mm thick interior masonry wall with 16mm plaster on both sides finished with semi gloss white paint

Zone schedule							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
Third Floor	Classroom 10	54.06	+9900	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Third Floor	Classroom 11	54.28	+9900	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Third Floor	Classroom 12	54.28	+9900	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Third Floor	Cleaner closet	11.57	+9900	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Third Floor	Corridor	74.25	+9885	Self levelling cement floor screed with epoxy floor paint	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm Plastering, ground smooth in selected paint finish
Third Floor	Store	7.30	+9900	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+10370	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Third Floor	Toilet (F)	11.07	+9875	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Third Floor	Toilet (M)	11.15	+9875	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

PROPOSED 03 STOREY BUILDING AT

**Hdh Kumundhoo
4 Storey Building
with 12 classroom**

Client
**Ministry of Education,
Maldives**

4/1/2021

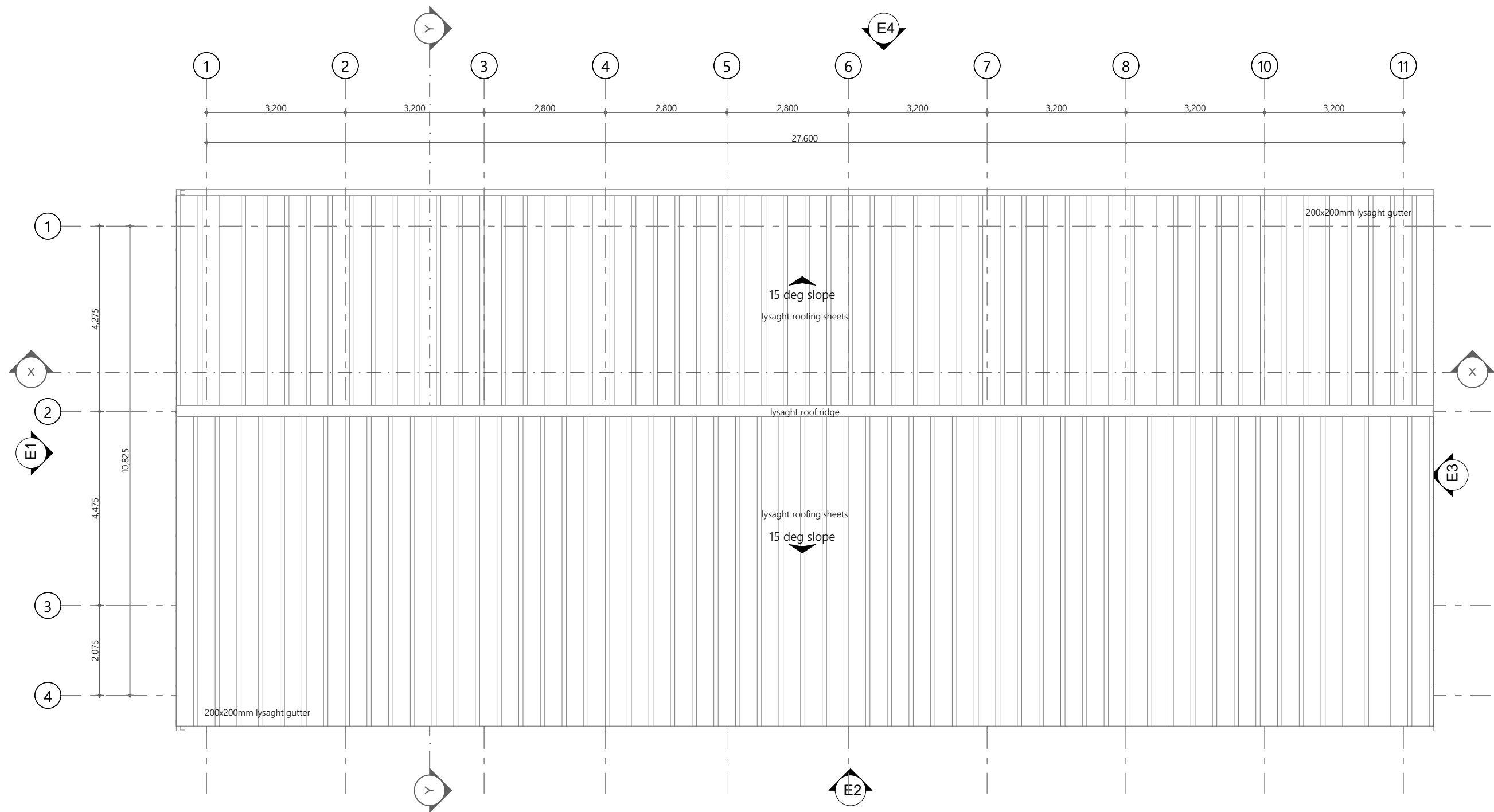
Architect: Fathmath Ihudha Amir
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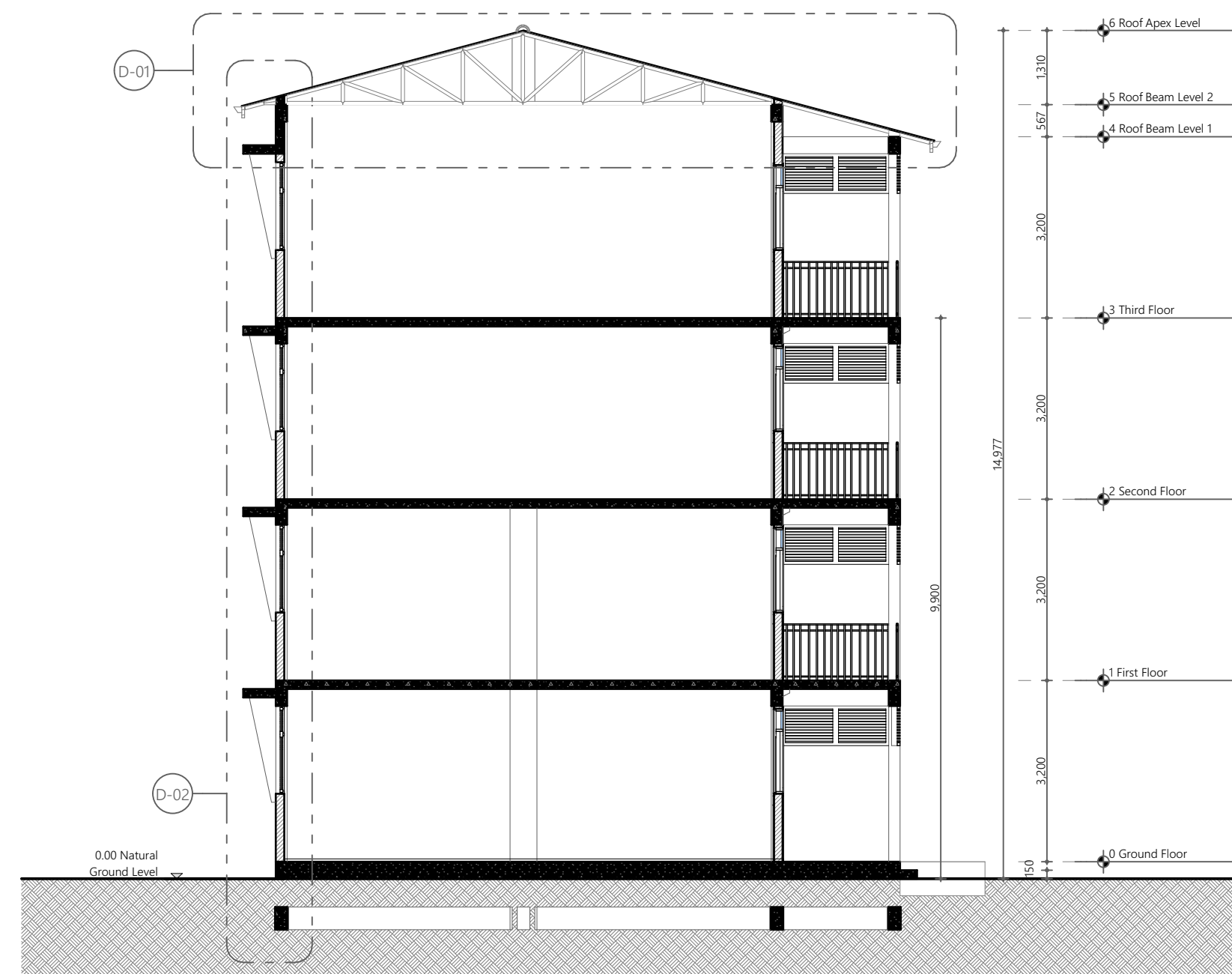
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Roof Plan
1:100



Building Section X-X
1:100



Building Section Y-Y
1:100

PROPOSED 03 STOREY BUILDING AT

Hdh Kumundhoo
4 Storey Building
with 12 classroom

Sent

Ministry of Education,
Maldives

/1/2021

Architect: Fathmath Ihudha Amir
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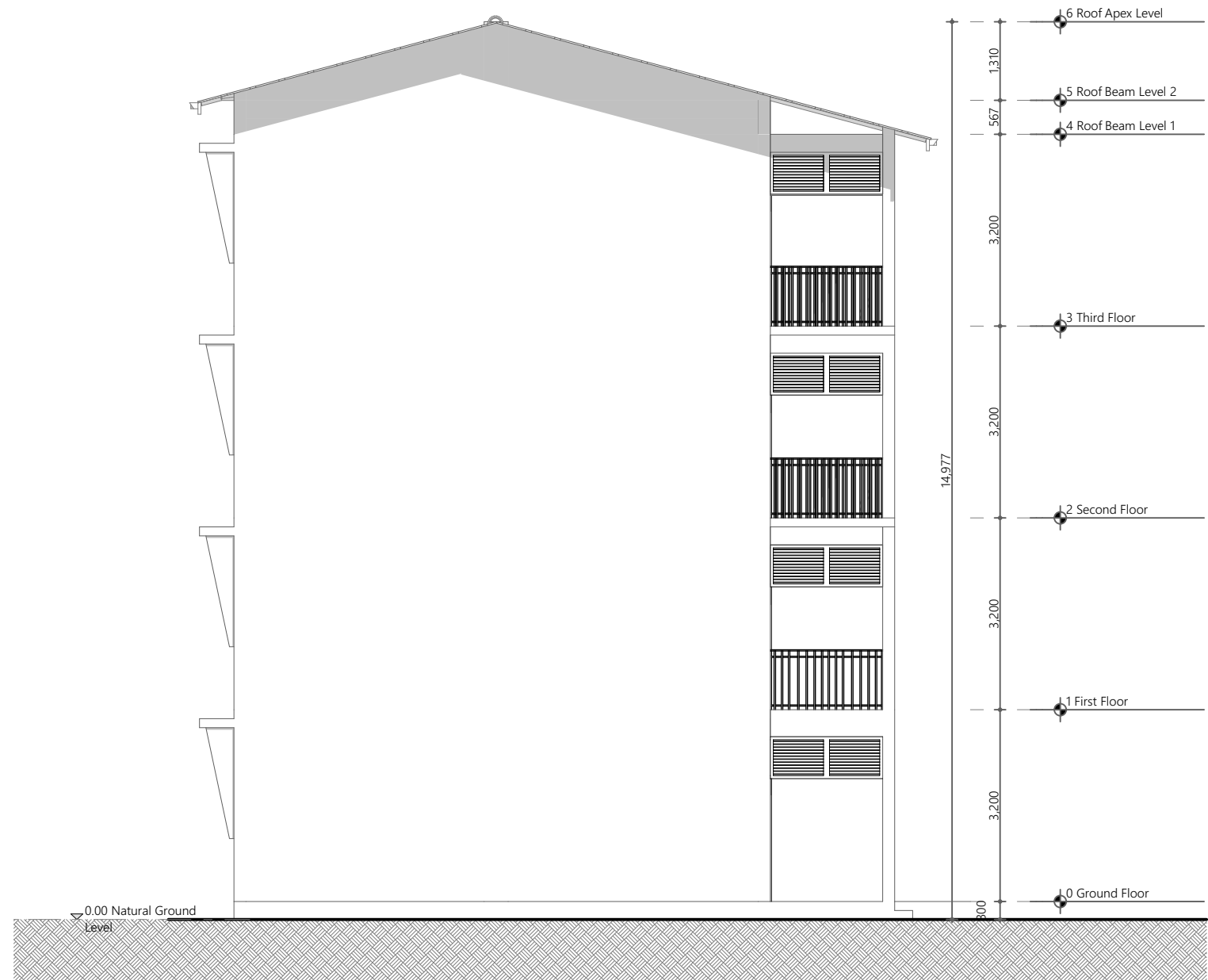


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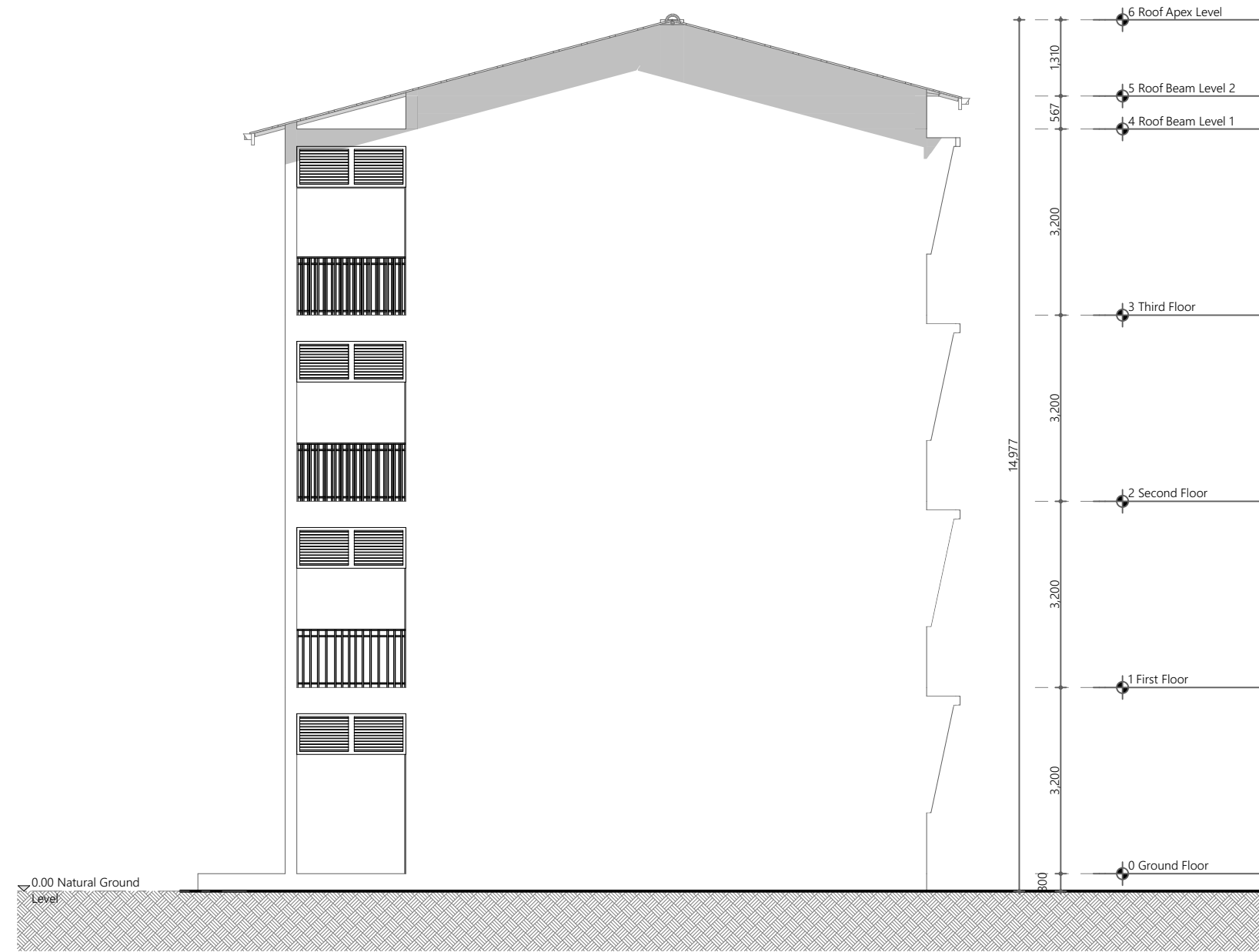
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Elevation E1
1:100



Elevation E2
1:100



Elevation E3
1:100



Elevation E4
1:100

All Openings Schedule								
Element ID	D01	D02	D03	D04	W01	W02	W03	W04
Quantity	16	16	1	24	8	8	8	12
W x H Size	700×2,300	900×2,300	1,100×2,300	2,900×2,700	650×750	900×2,250	1,875×700	2,600×700
2D Symbol								
View from Side Opposite to Opening Side								
Frame Outside	Powder coated (60 microns) Aluminum frame of a selected colour	Powder coated (60 microns) Aluminum frame of a selected colour	Powder coated (60 microns) Aluminum frame of a selected colour	Powder coated (60 microns) Aluminum frame of a selected colour	Powder coated (60 microns) Aluminum frame of a selected colour	Powder coated (60 microns) Aluminum frame of a selected colour	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour copy	Powder coated (60 microns) Aluminum frame of a selected colour
Glass	(No Glazing)	(No Glazing)	(No Glazing)	Clear Glass	---	---	---	---
Leaf Outside	6mm Thick powder coated (60 microns) Aluminum panel of selected colour	6mm Thick powder coated (60 microns) Aluminum panel of selected colour	6mm Thick powder coated (60 microns) Aluminum panel of selected colour	6mm Thick powder coated (60 microns) Aluminum panel of selected colour	---	---	---	---
Sash Outside	---	---	---	---	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour copy	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour copy	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour copy	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour copy

Element ID	W05	W06
Quantity	24	24
W x H Size	2,900×1,550	3,000×700
2D Symbol		
View from Side Opposite to Opening Side		
Frame Outside	Powder coated (60 microns) Aluminum frame of a selected colour	Powder coated (60 microns) Aluminum frame of a selected colour
Glass	---	---
Leaf Outside	---	---
Sash Outside	Clear Glass	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour copy

VENTILATION SCHEDULE

Room Name	Room Area	Opening	Required Opening	Designed Opening	Opening %
Ground Floor					
Classroom 1	53.8	W5+W5	5.38	8.08	15.02
Toilet M	11.15	W2	1.115	1.7	15.25
Store	7.3	W1+W1	0.73	0.74	10.14
Toilet F	11.07	W2	1.107	1.7	15.36
Cleaner Closet	4.35	MECHANICAL VENTILATION			
Classroom 2	54.28	W5+W5	5.428	8.08	14.89
Classroom 3	54.28	W5+W5	5.428	8.08	14.89
Toilet for disabled	29.56	MECHANICAL VENTILATION			
First Floor					
Classroom 4	54.06	W5+W5	5.406	8.08	14.95
Toilet M	11.15	W2	1.115	1.7	15.25
Store	7.3	W1+W1	0.73	0.74	10.14
Toilet F	11.07	W2	1.107	1.7	15.36
Cleaner Closet	11.57	MECHANICAL VENTILATION			
Classroom 5	54.28	W5+W5	5.428	8.08	14.89
Classroom 6	54.28	W5+W5	5.428	8.08	14.89
Second Floor					
Classroom 7	54.06	W5+W5	5.406	8.08	14.95
Toilet M	11.15	W2	1.115	1.7	15.25
Store	7.3	W1+W1	0.73	0.74	10.14
Toilet F	11.07	W2	1.107	1.7	15.36
Cleaner Closet	11.57	MECHANICAL VENTILATION			
Classroom 8	54.28	W5+W5	5.428	8.08	14.89
Classroom 9	54.28	W5+W5	5.428	8.08	14.89
Third Floor					
Classroom 10	54.06	W5+W5	5.406	8.08	14.95
Toilet M	11.15	W2	1.115	1.7	15.25
Store	7.3	W1+W1	0.73	0.74	10.14
Toilet F	11.07	W2	1.107	1.7	15.36
Cleaner Closet	11.57	MECHANICAL VENTILATION			
Classroom 11	54.28	W5+W5	5.428	8.08	14.89
Classroom 12	54.28	W5+W5	5.428	8.08	14.89

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All aluminium Doors / Windows

Aluminium frame profiles shall be 35-50mm x 100mm (minimum 1.6mm thick)
Aluminium panels should be a minimum 6mm thick single sheet within an aluminium profile of 35-50mm x 100mm (minimum 1.6mm thick)

All Timber Doors / Windows

Timber Door frame shall be 50mm x 100mm hardwood.
All door panel thicknesses are 40mm thick solid core.
All frame edges shall be trimmed 3mm
All wooden components should be wood stained finish

All glazing should be of 6mm unless specified

External units must comply the following weather conditions:-
Wind pressure: 200 kg/sqm
Water tightness: 25 kg/sqm

All external frames / wall joints must be sealed with silicon sealant and the wedges trimmed with 12 X 12mm hardwood beading fixed to frames by brass nails

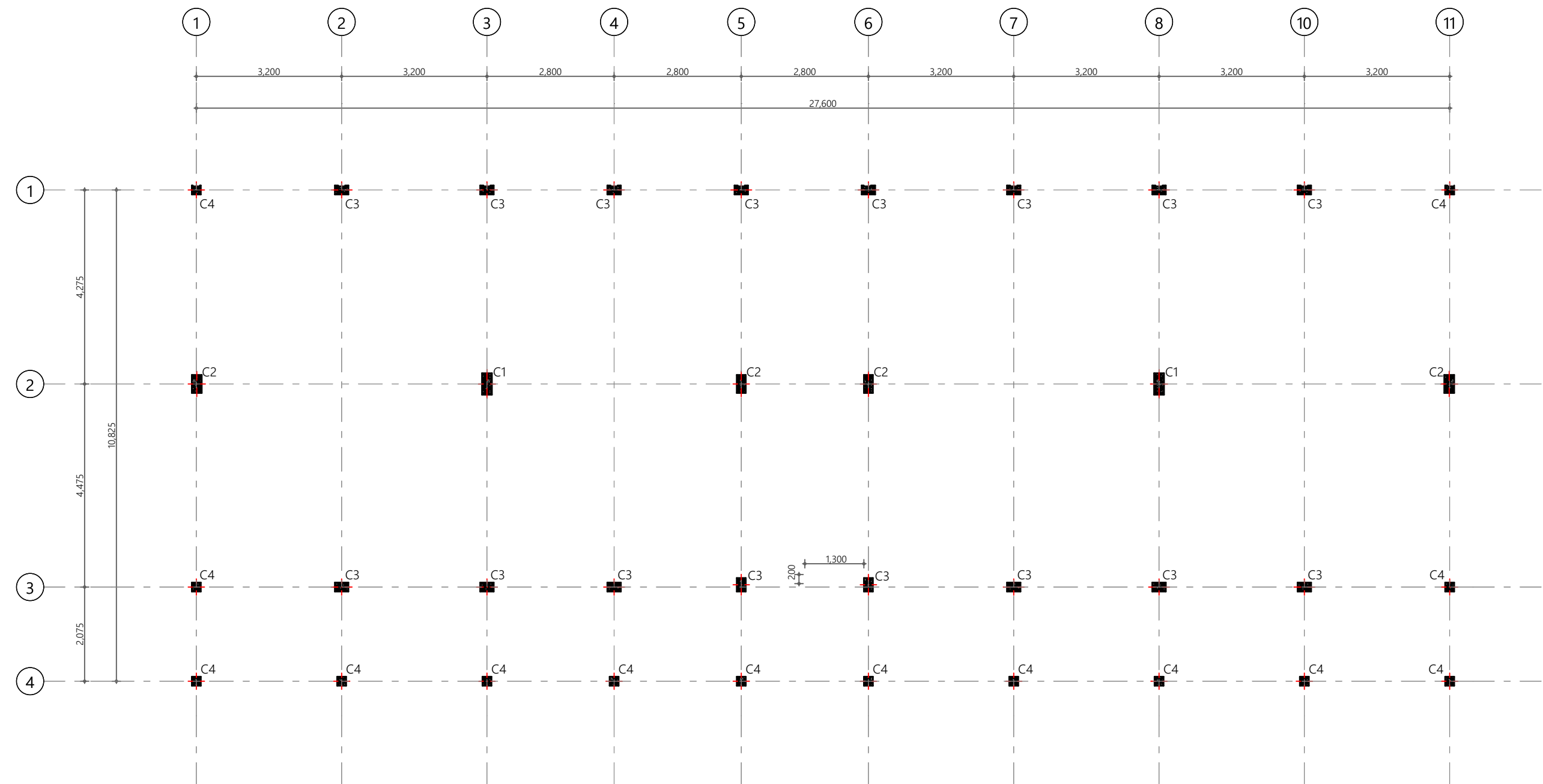
All hardware should be provided for the performance of all functions of the units

Hinges shall confirm to

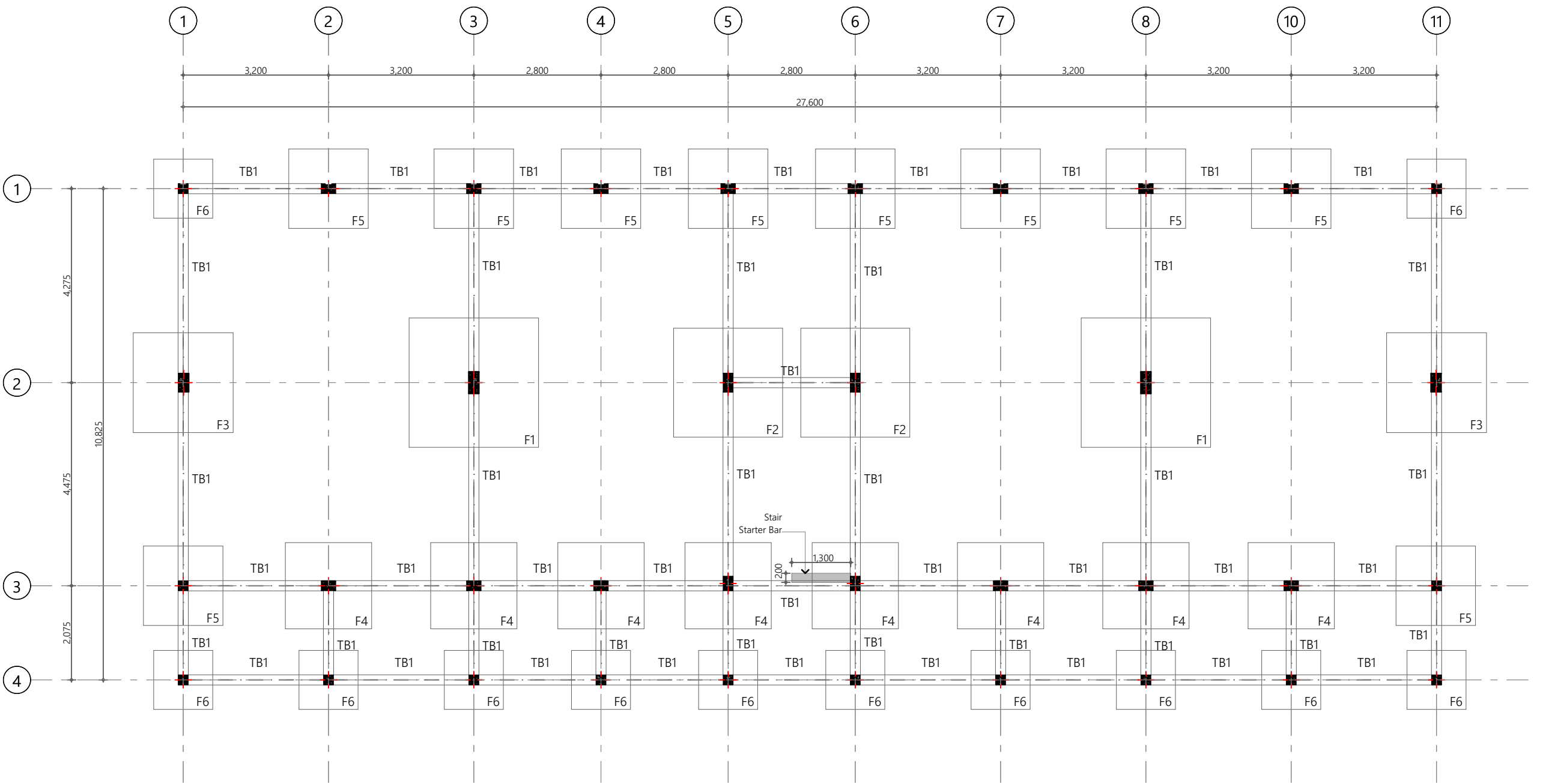
- Door size more than 700X900mm
WD: 125mm X 2 sets
SD: 150mm X 3 sets
- Door size less than 700 X 1900mm
WD: 100mm X 2 sets
SD: 125mm X 2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be 1000mm above FFL



Column Layout
1:100



Foundation Plan
1:100

Foundation Notes:

	Dimensions	Reinforcement	Foundation depth
F1	2850X2850X550	T16@150C/C B/W (8)	1350mm
F2	2400X2400X500	T12@125C/C B/W (8)	1300mm
F3	2200X2200X450	T12@125C/C B/W (8)	1250mm
F4	1900X1900X400	T12@150C/C B/W (8)	1200mm
F5	1750X1750X400	T12@150C/C B/W (8)	1200mm
F6	1300X1300X400	T10@150C/C B/W (8)	1200mm

Ground Slab = 100mm thick RC slab on fill reinforced with T10@200C/C (B/W)

All Footings are to be laid on top of 50mm thick lean concrete
Apply waterproofing to all substructure (below ground elements)

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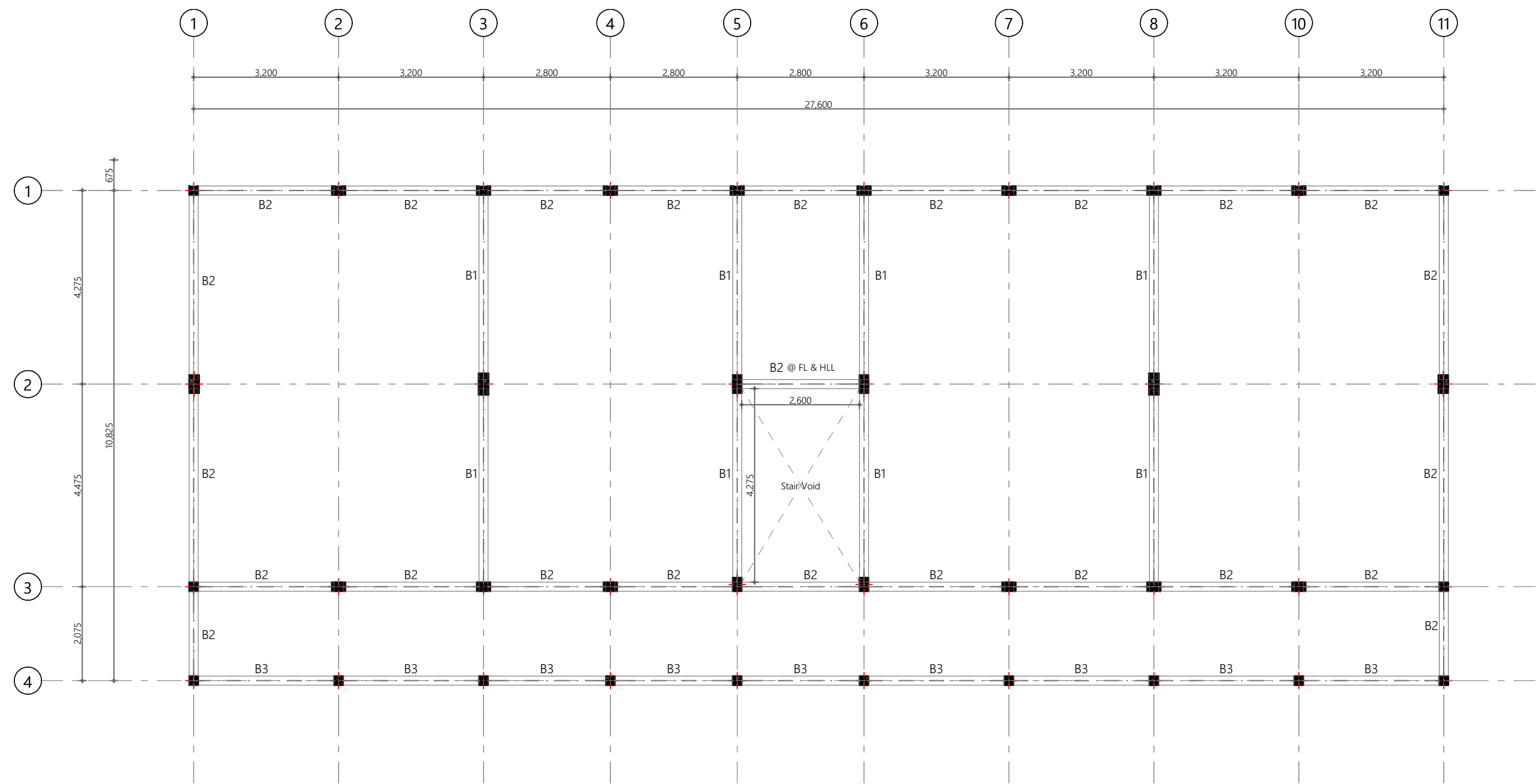
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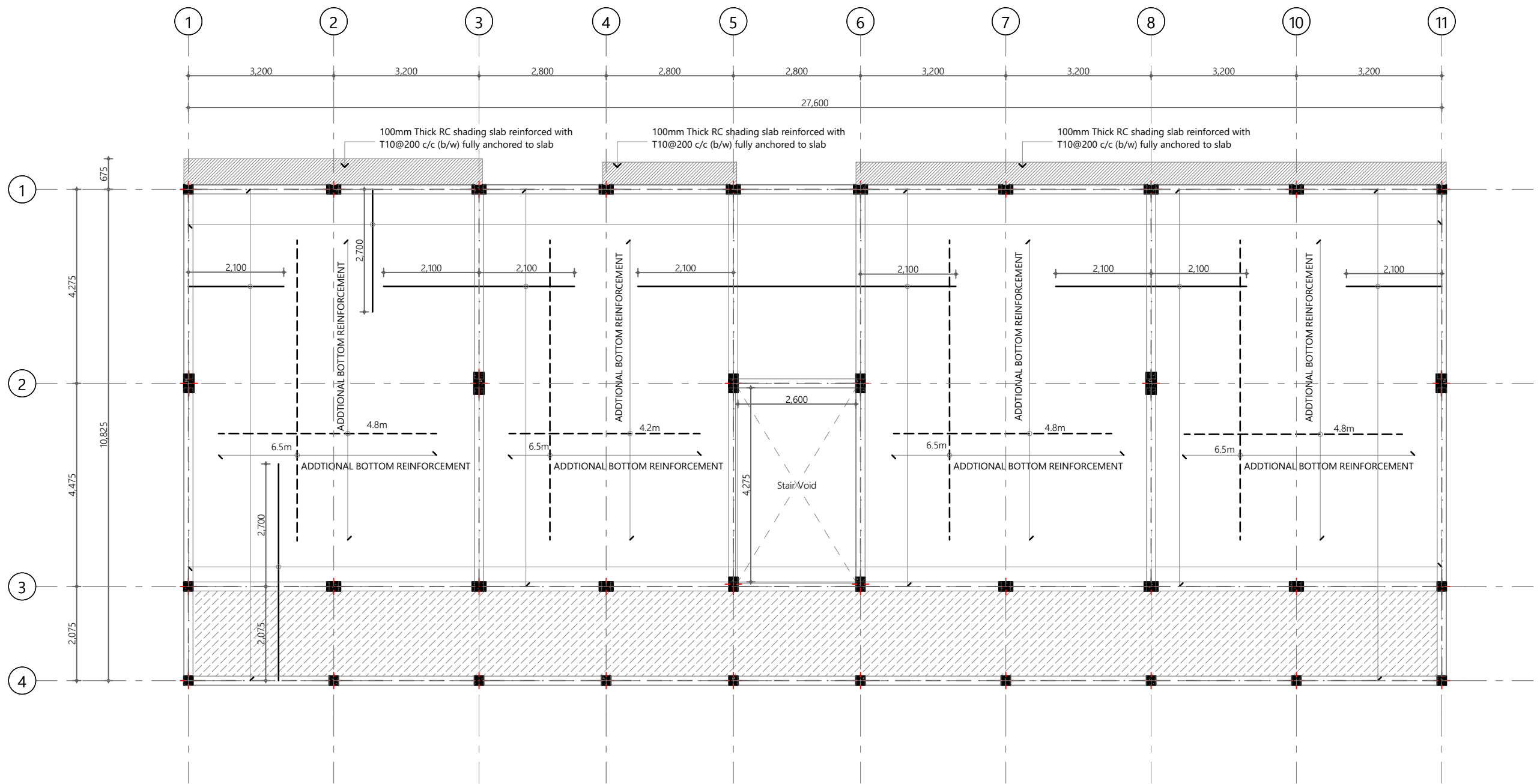
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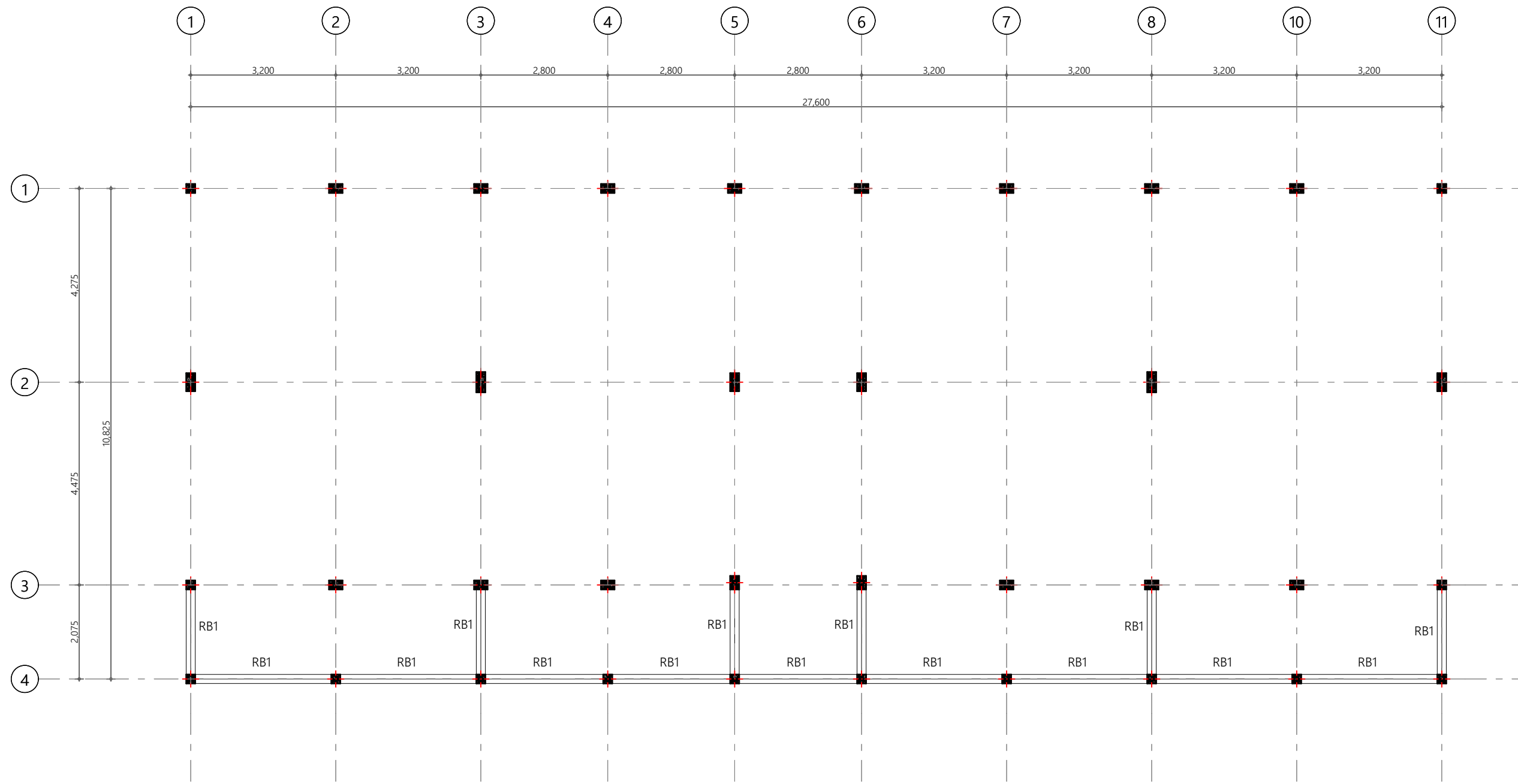


First to Third Floor Beam Plan
1:100

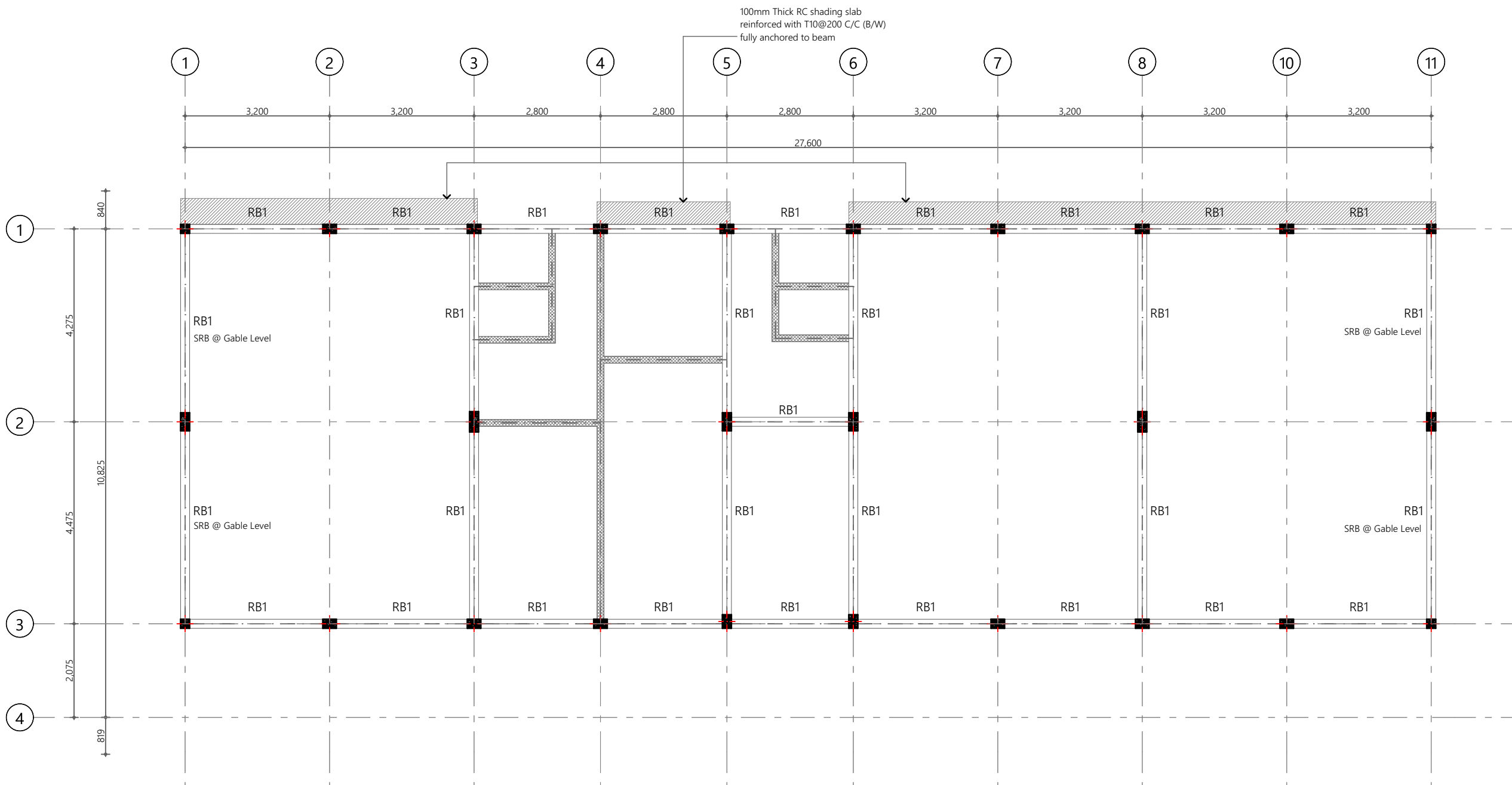


175 mm
 155 mm
 Bottom Reinforcement: T12@150c/c B/W (Not Shown)
 Bottom Additional Reinforcement: T12@150c/c B/W (As shown)
 Top Reinforcement: T12@150c/c (As shown, unless stated)
 Top Distribution steel: T12@150c/c (Unless stated)

First to Third Floor Slab Reinforcement Plan
1:100



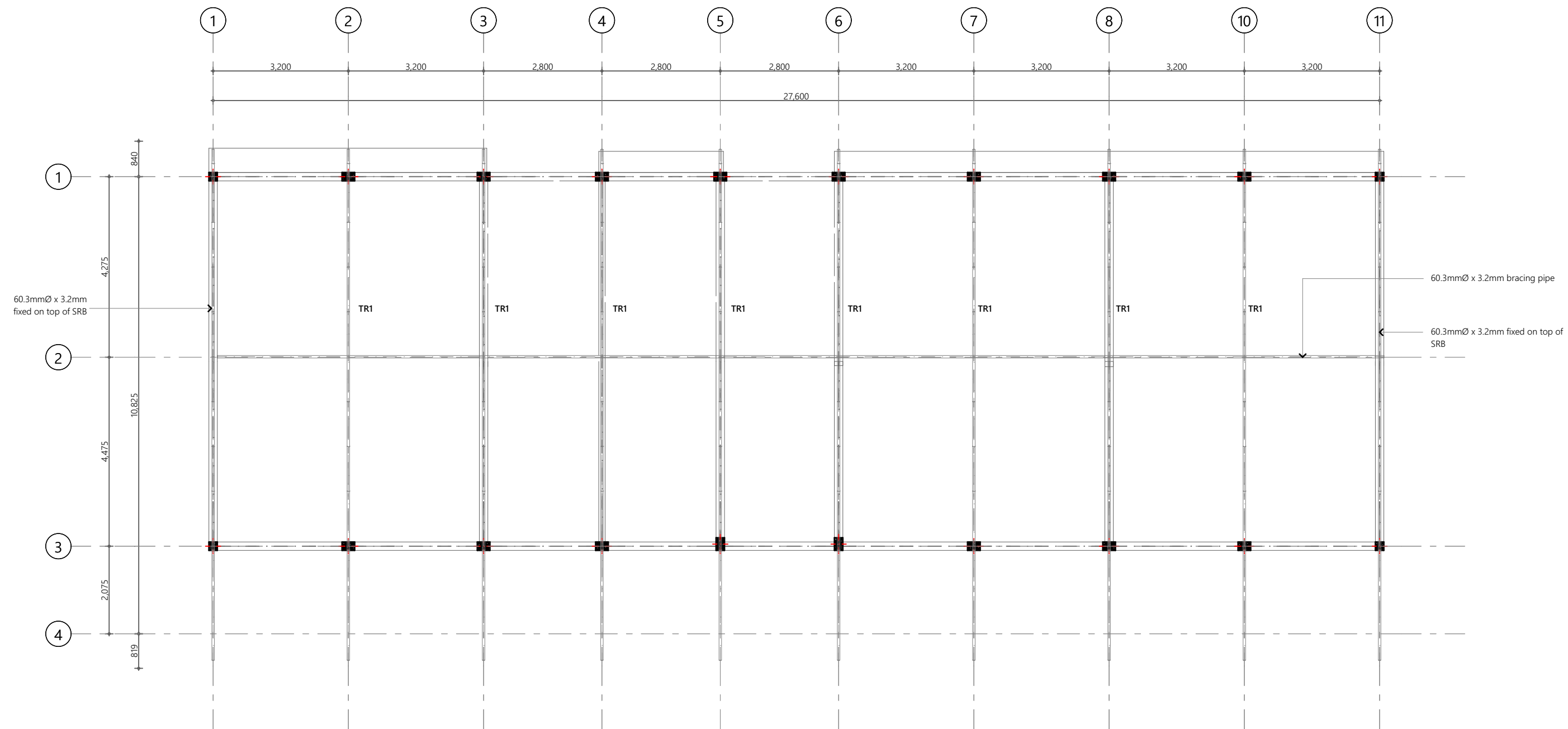
Roof Beam Level 1
1:100



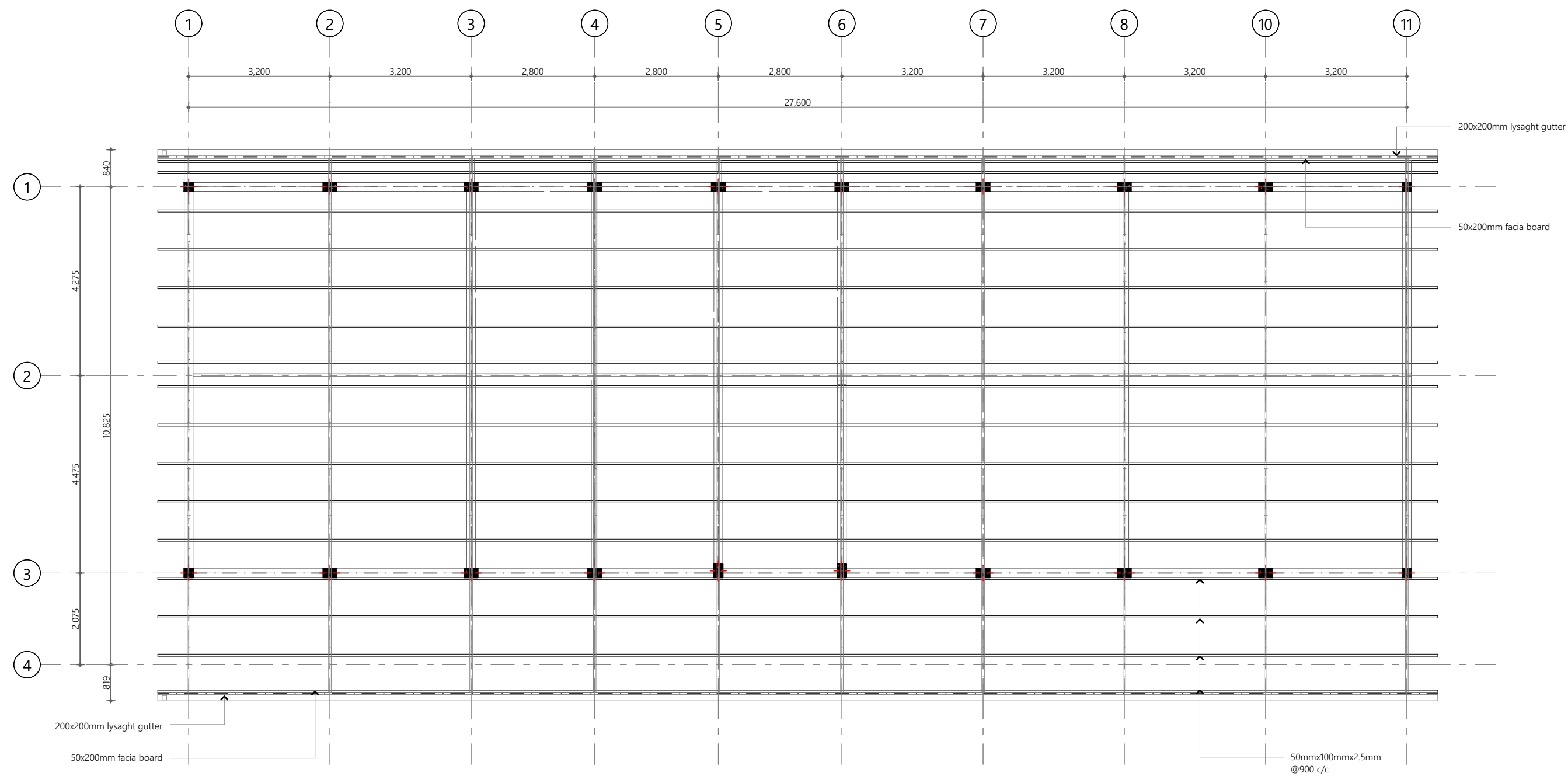
Notes:
WCB (Wall cast on top of wall)

Roof Beam Level 2
1:100





Roof Truss Plan
1:100



Roof Framing Plan
1:100

PROPOSED 03 STOREY BUILDING AT

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4 Storey Building
with 12 classroom

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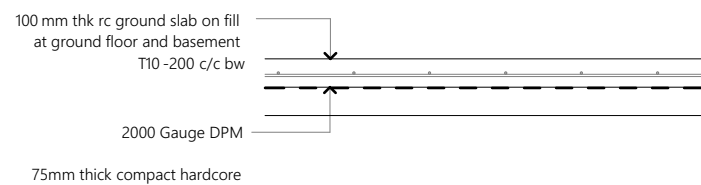
	Dimensions	Reinforcement	Foundation depth
F1	2850X2850X550	T16@150C/C B/W (B)	1350mm
F2	2400X2400X500	T12@125C/C B/W (B)	1300mm
F3	2200X2200X450	T12@125C/C B/W (B)	1250mm
F4	1900X1900X400	T12@150C/C B/W (B)	1200mm
F5	1750X1750X400	T12@150C/C B/W (B)	1200mm
F6	1300X1300X400	T10@150C/C B/W (B)	1200mm

All Footings are to be laid on top of 50mm thick lean concrete
Apply waterproofing to all substructure (below ground elements)

Diagram illustrating the layout of a page with a central content area and margins. The page is represented by a large rectangle. Inside, there is a smaller rectangle representing the content area. The margins are labeled: "As given on pad sizes" for the top and bottom margins, "As given" for the left margin, and "Column" for the right margin. The content area contains a grid of small triangles.

Diagram illustrating the construction details of a Column RFMT supported on pad RFMT. The diagram shows a cross-section of the structure, including the Column, Tie beam, Column RFMT supported on pad RFMT, Pad RFMT, Bituminous coating, 50mm thick lean concrete, and DPM. The foundation depth is indicated as (as given), and the pad sizes are also indicated as (as given on pad sizes).

Typical Pad Footing Detail



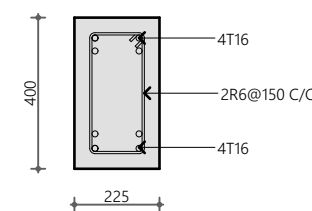
For slab, rebar spacer chairs spacing shall be minimum 1m spacing or 1 no. per 1 sqm

C3 C4

NOTE:-

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

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

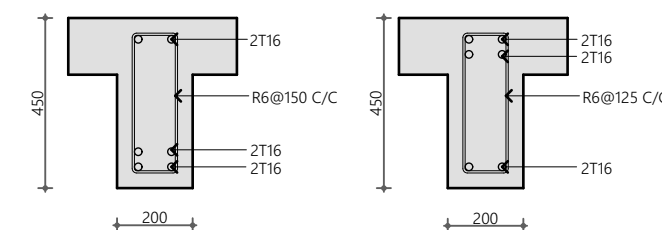


B1 2nd & Above Floors

B3

SRE

SRB (Sloping roof
beam cast on top of
wall at gable level)



B2

RB1

150

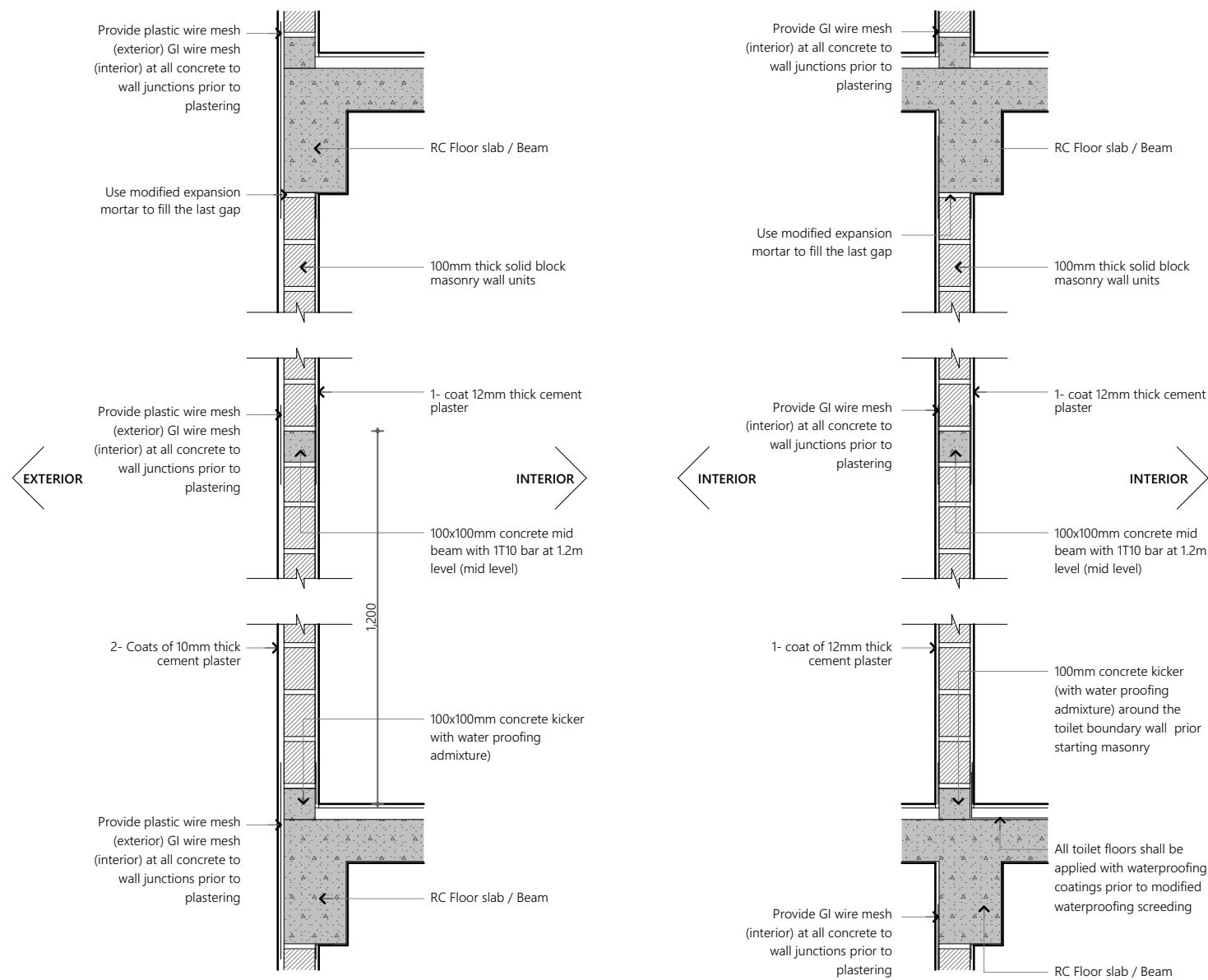
200

4T10

R6@150 C/C

(Cast on top of wall)

Beam Details



Note:

- * Concrete surfaces shall be thoroughly cleaned with water & applied with mastercast 141 or equivalent bonding mortar prior to plastering.
- * Plastering mortar mix shall be 1:4 (cement: sand) ratio.
- * Plaster mix shall be modified using fibre wool & mastercast 141 or equivalent plasticisers as per manufacturer's specification.
- * Height of placing blocks shall be maximum 1.2m per day.
- * After initial coat of plastering, water curing shall be provided for minimum 3 days & after final coat water curing shall be provided for 7 days.

Typical Wall Construction Detail
1:20

PROPOSED 03 STOREY BUILDING AT

**Hdh Kumundhoo
4 Storey Building
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Client
**Ministry of Education,
Maldives**

4/1/2021

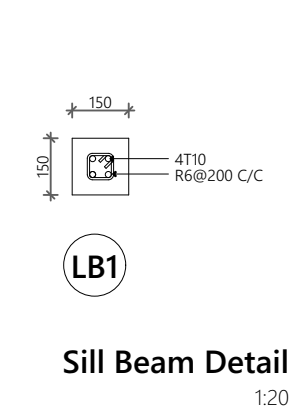
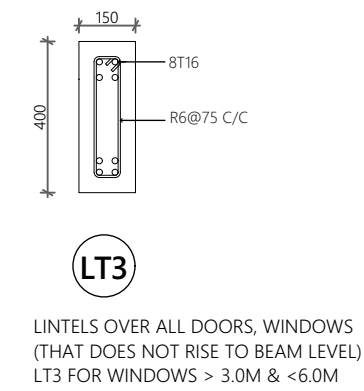
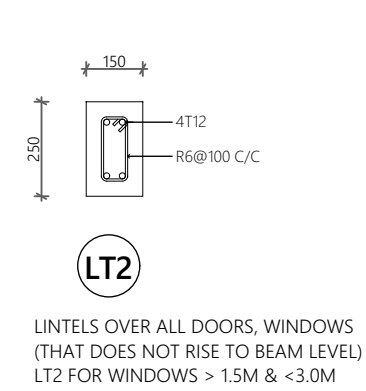
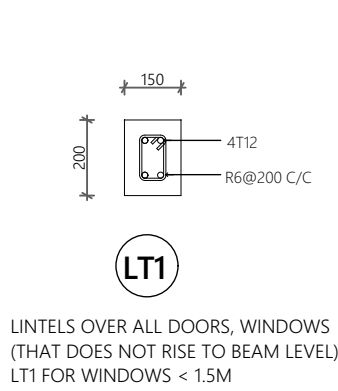
Architect: Fathmath Ihudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir



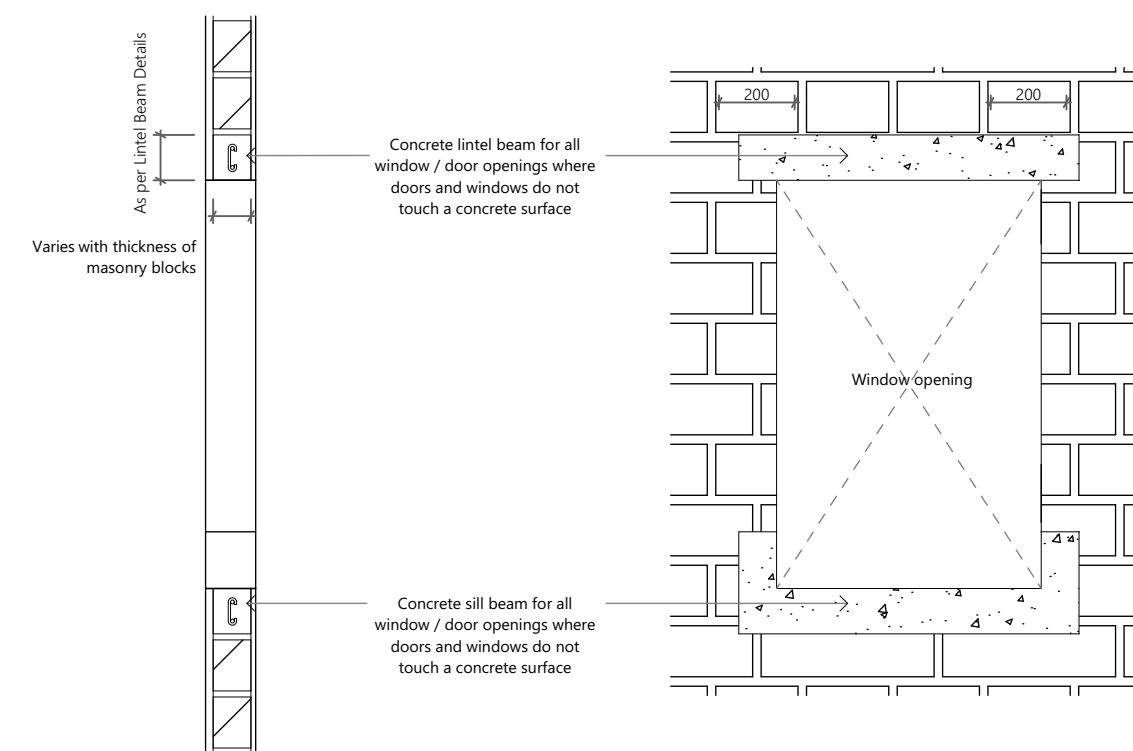
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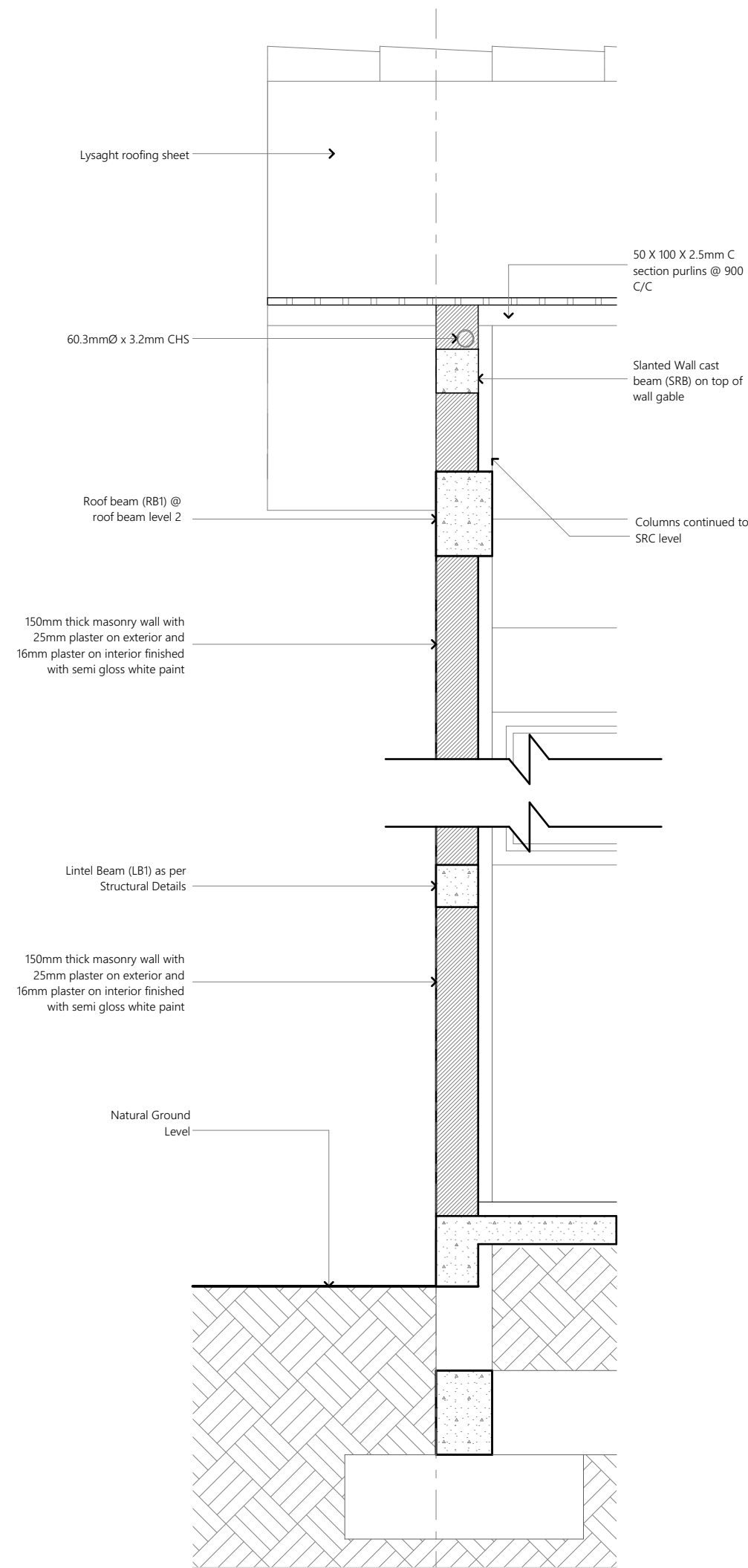


Lintel Beam Detail
1:20



**Typical Window
Construction Detail**

Window Construction Detail
1:20



Top to Bottom Detail 1
1:20

PROPOSED 03 STOREY BUILDING AT

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**Ministry of Education,
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4/1/2021

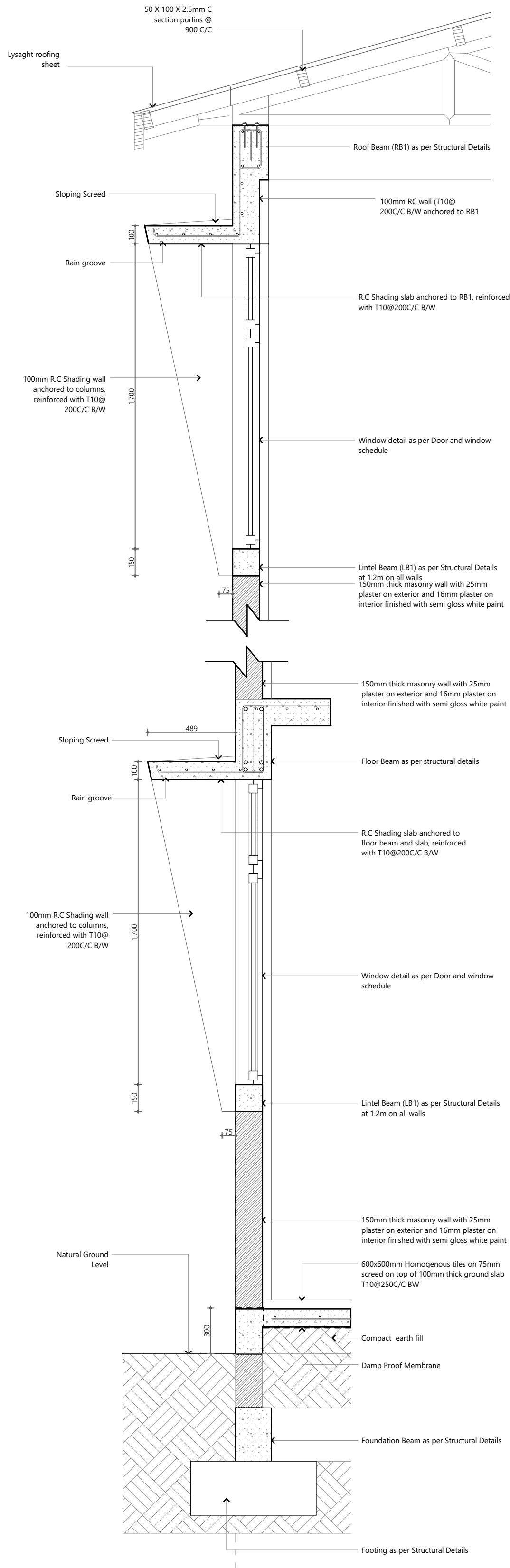
Architect: Fathmath Ihudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir



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Top to Bottom Detail 2
1:20

PROPOSED 03 STOREY BUILDING AT
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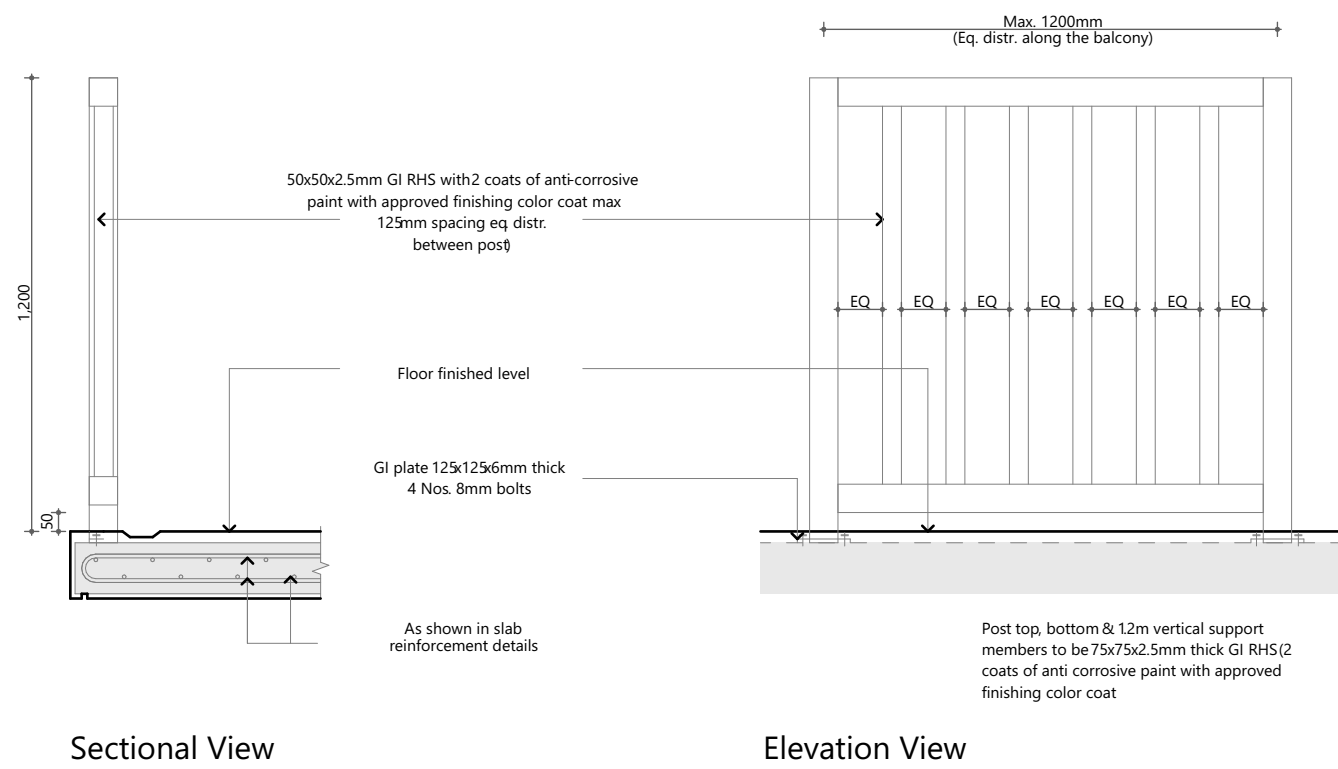
Architect: Fathmath Ithudha Amir
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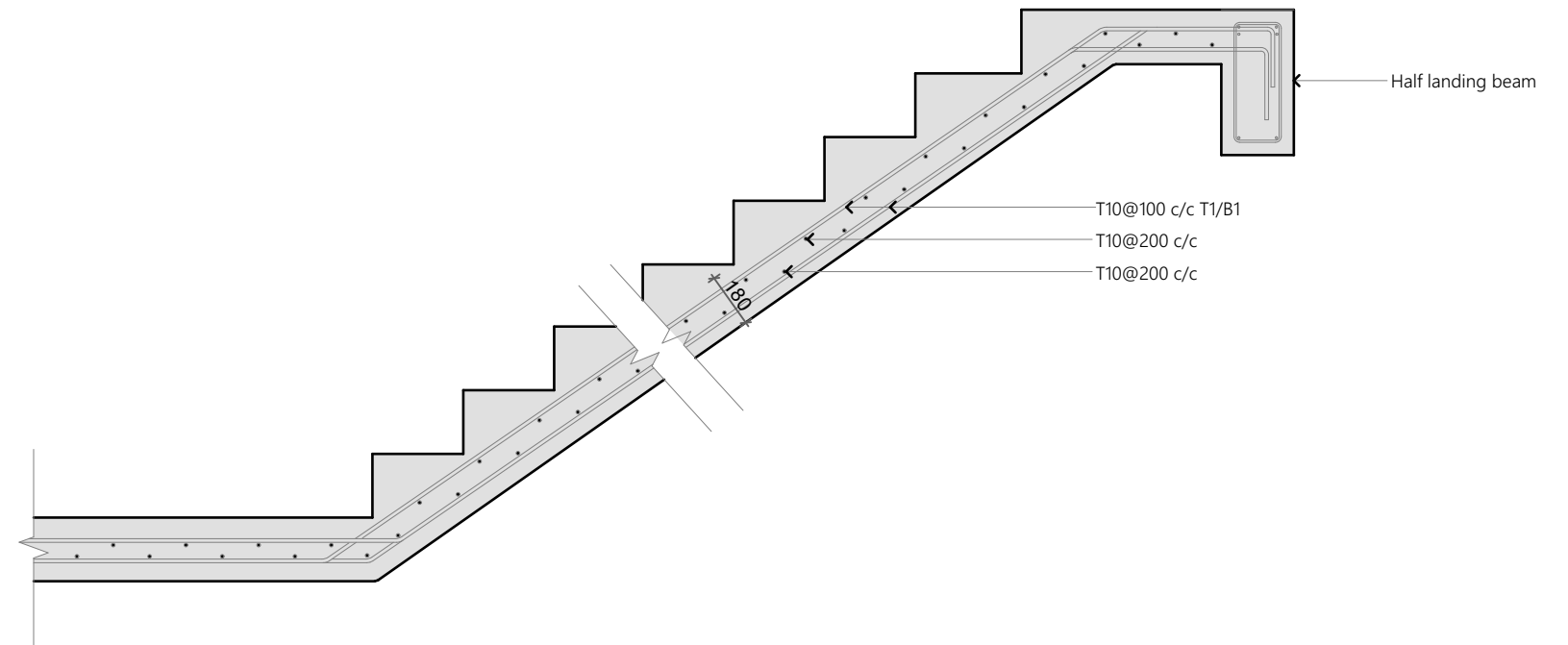
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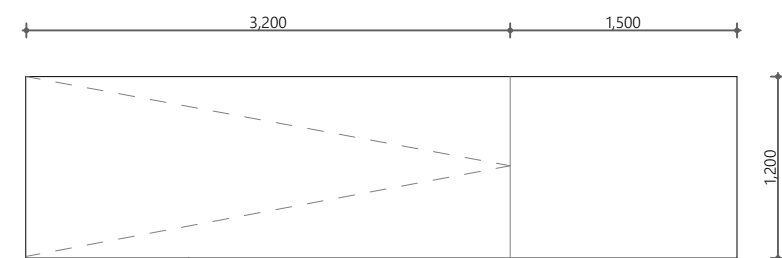
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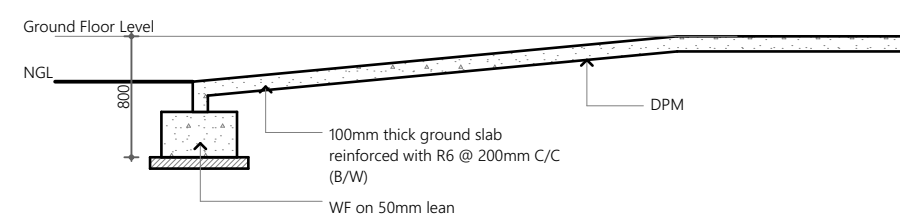
Balcony Railing Detail
1:20



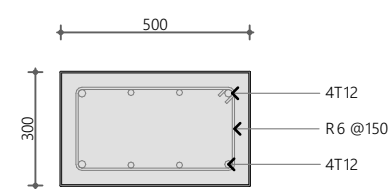
Stair Reinforcement Detail
1:20



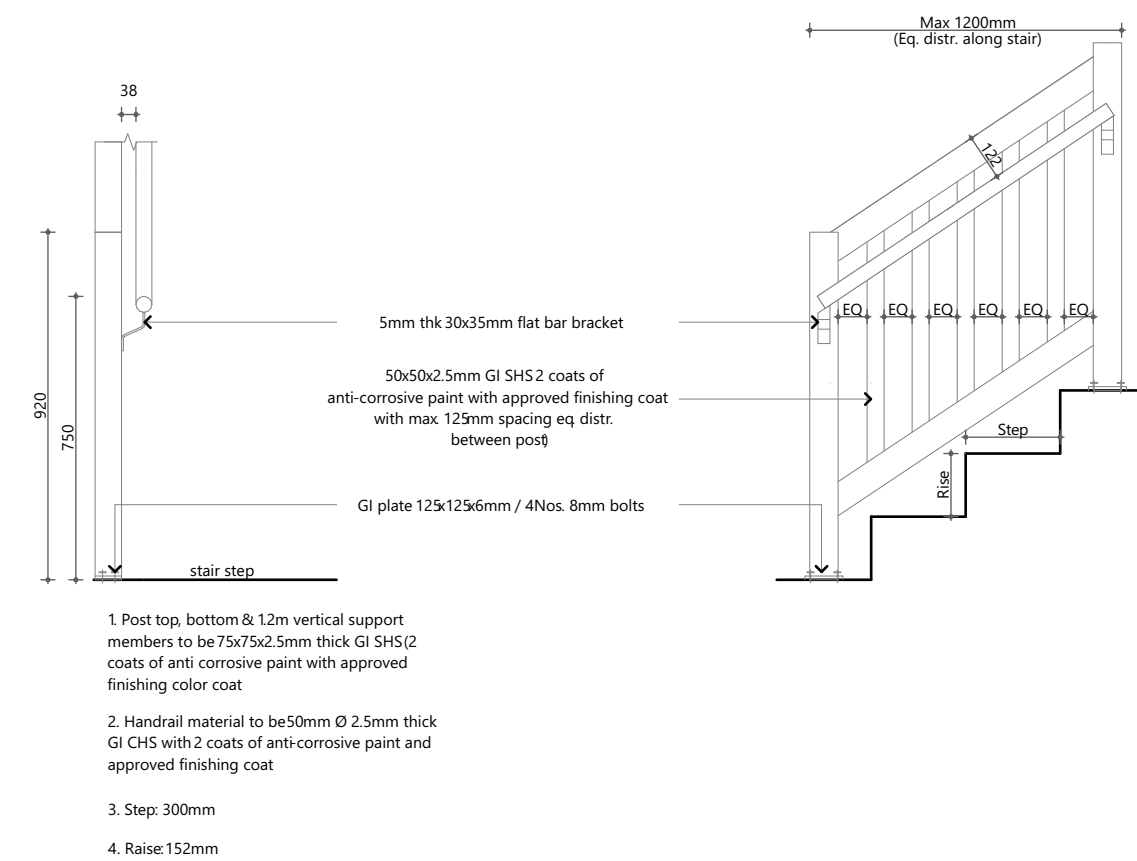
Ground Floor Ramp Plan View



Ground Floor Ramp Elevation View

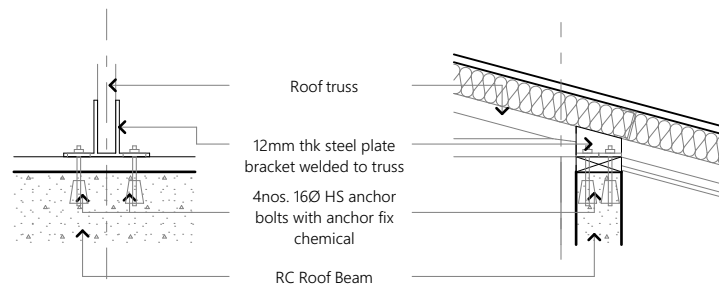


Wall Footing (WF) Detail
Scale = 1:20

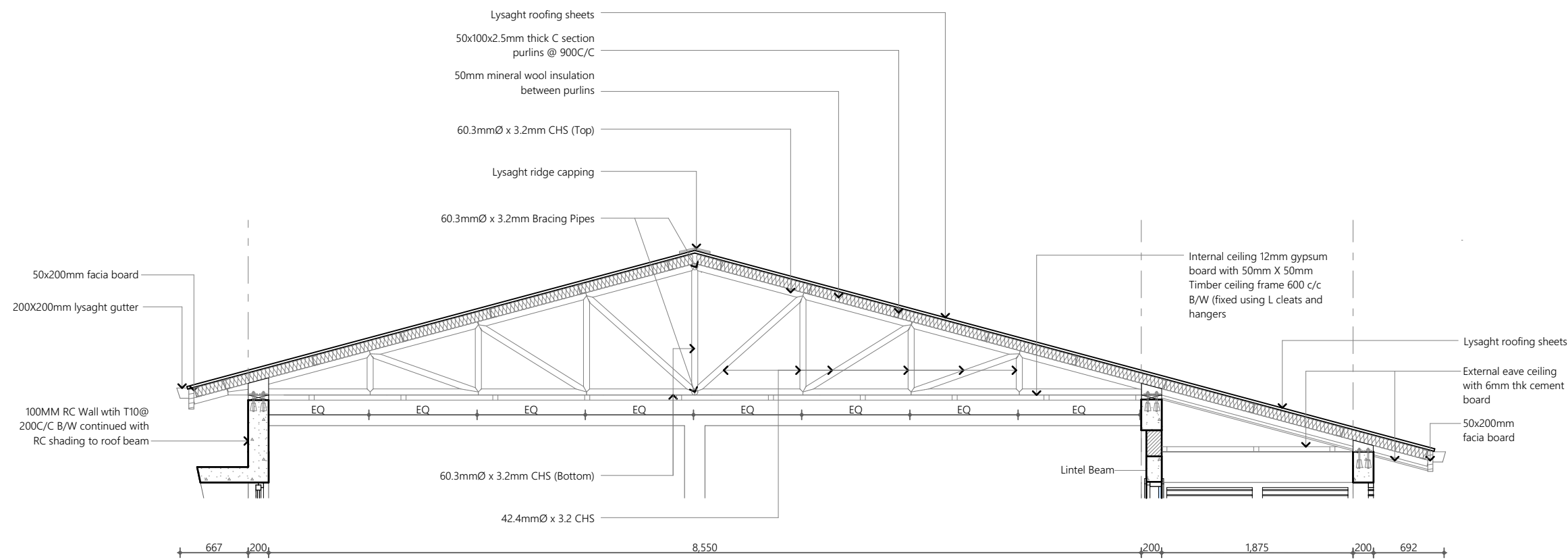


Stair Railing Detail
1:20

Ramp Details
1:50



Truss Fixing Detail
1:25



Truss Detail
1:50

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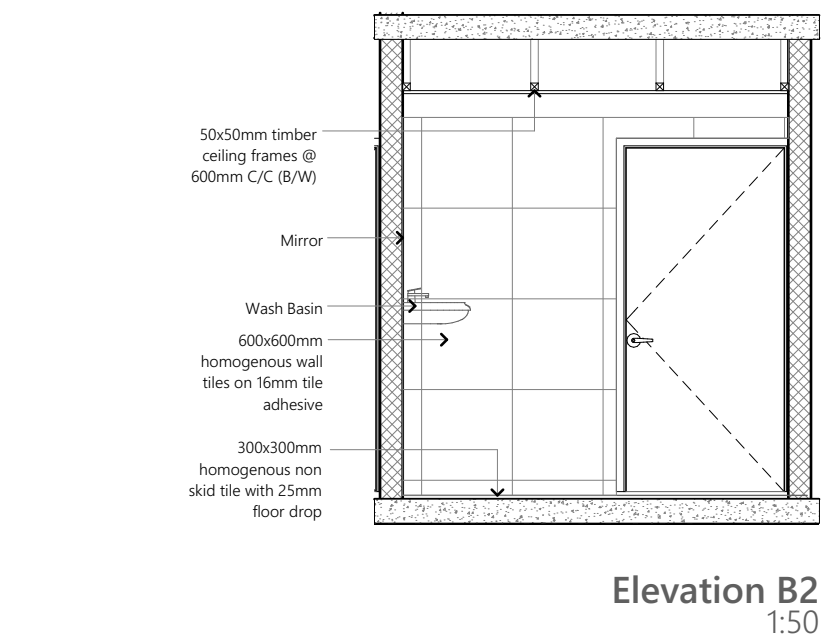
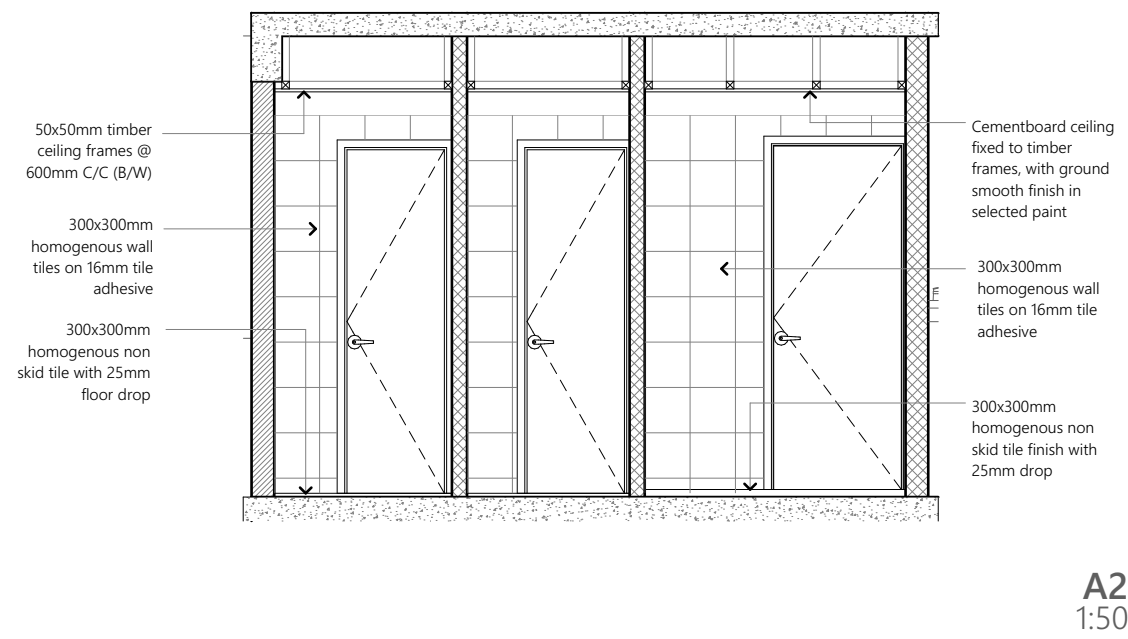
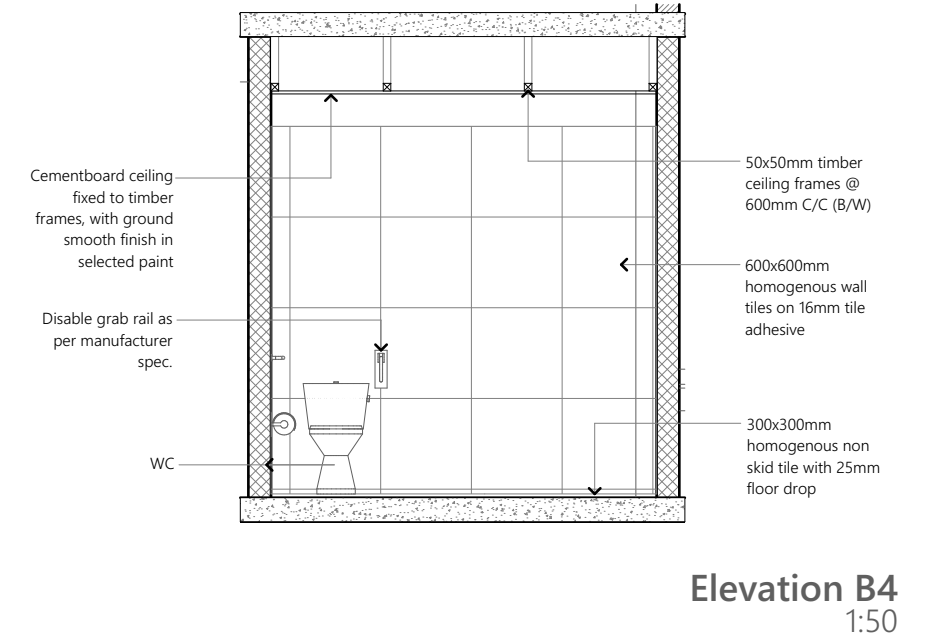
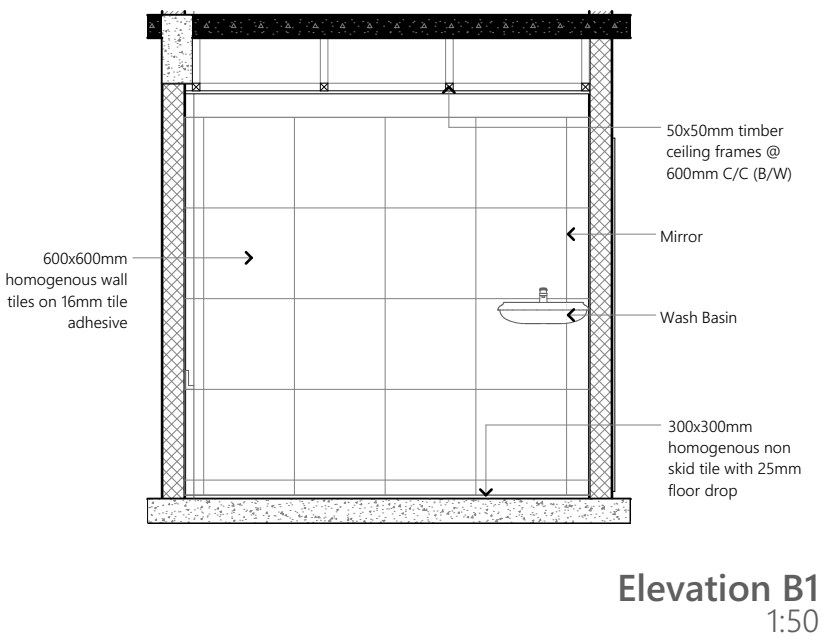
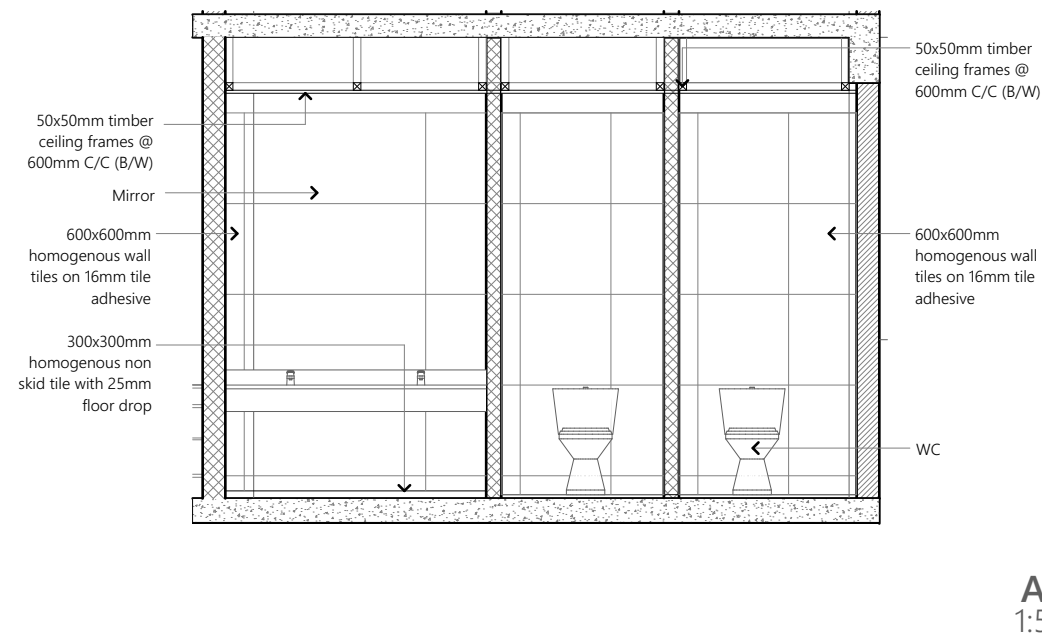
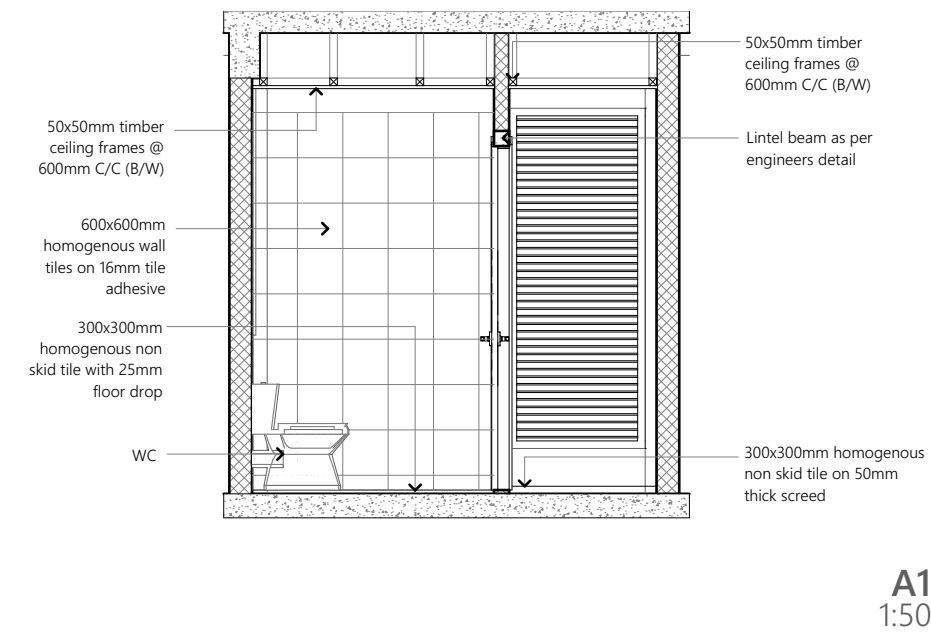
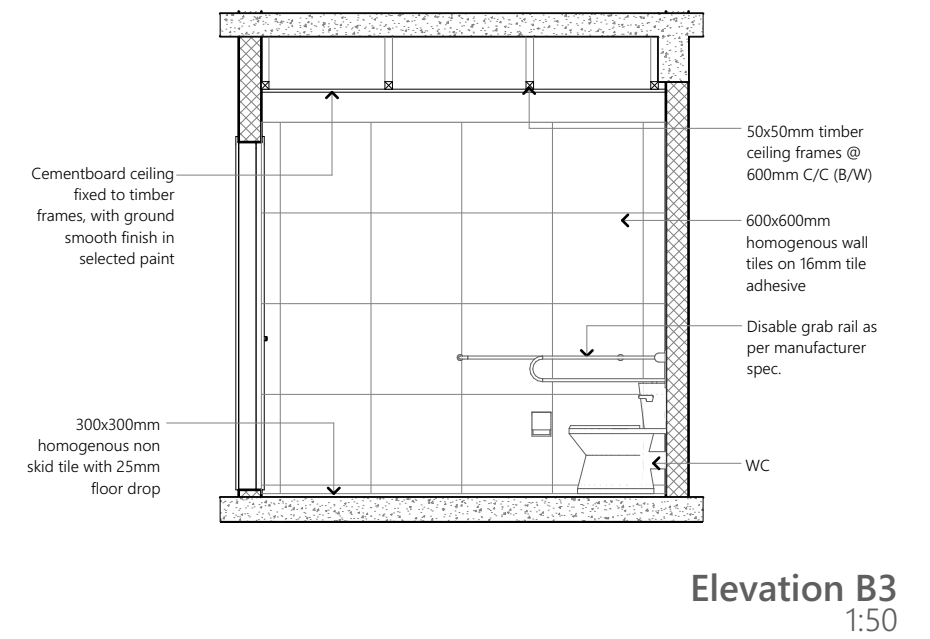
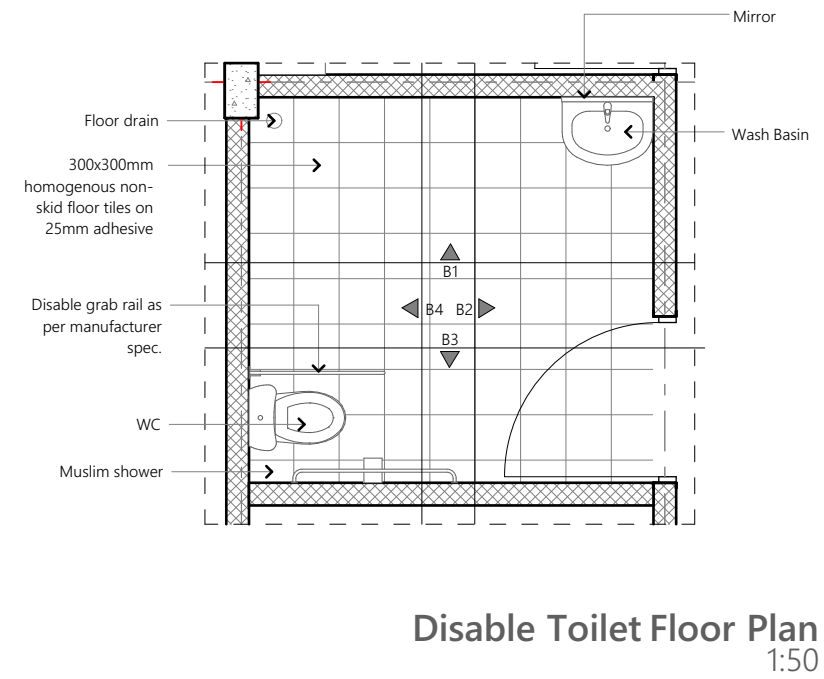
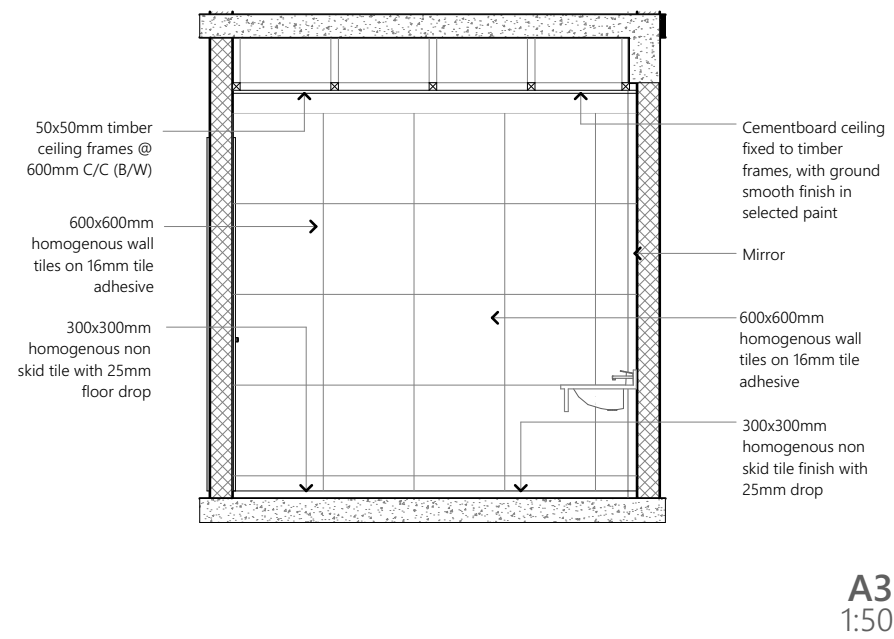
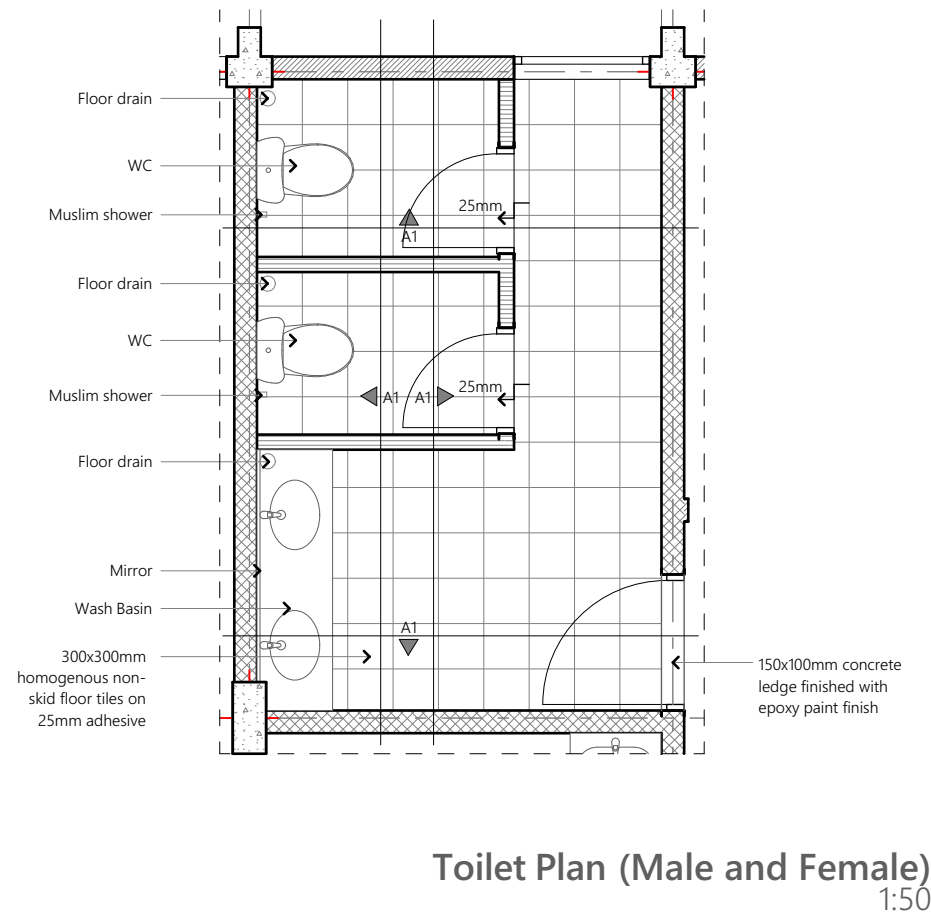
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