

ARCHITECTURAL & STRUCTURAL DRAWINGS OF
PROPOSED 02 STOREY BUILDING

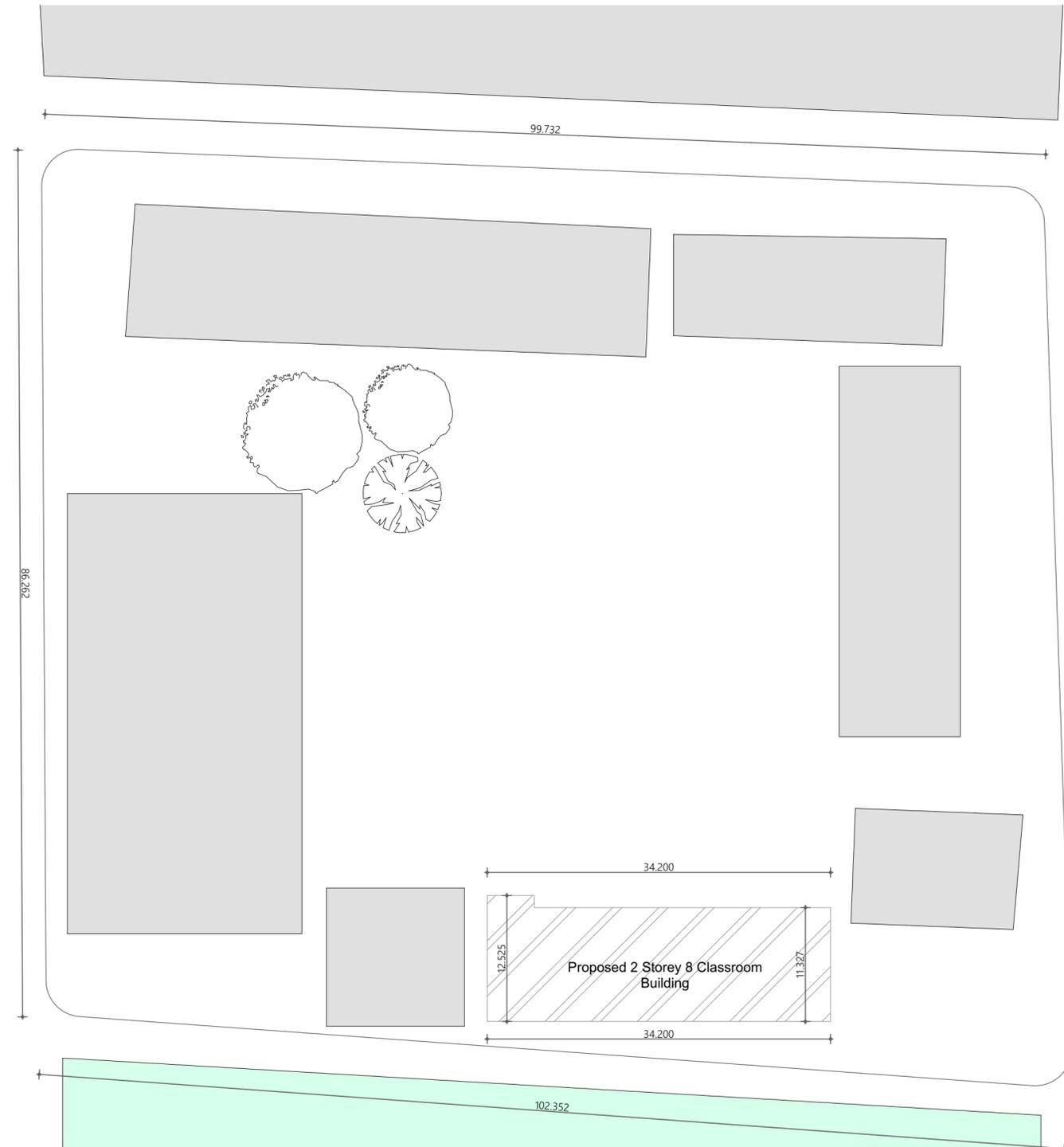
Hdh Kulhudhufushi Afeefudheen School

2 Storey Building with 08 classroom

For Ministry of Education, Maldives



Location Plan



Site Plan (source: google map)
 1:396.33



PROPOSED 04 STOREY BUILDING AT
**Hdh Kulhudhuffushi
 Afeefudheen School
 2 Storey Building
 with 08 classroom**

Client:
 Ministry of Education,
 Maldives

1/16/2021
 Architect: Fathmath Ithudha Amir
 Engineer: Ihsaan Waheed
 Drawn By: Fathmath Ithudha Amir



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A.02.1



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	54.06	+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	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 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	Classroom 4	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	+3050	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Corridor	90.44	+350	Self levelling cement floor screed with epoxy floor paint	+3050	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	+3050	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 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 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 ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

Note: All heights are taken from Natural Ground Level +00

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Maldives

1/16/2021
Architect: Fathmath Ithudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ithudha Amir

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Farweethu Magu, Malé, Republic of Maldives

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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
Ground Floor	Toilet for disabled	6.82	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
First Floor	Classroom 5	54.06	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6817	Cement board ceiling ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Classroom 6	54.06	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6817	Cement board ceiling ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Classroom 7	54.28	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6817	Cement board ceiling ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Classroom 8	54.28	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6817	Cement board ceiling ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Cleaner closet	4.35	+3550	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+6817	Cement board ceiling ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Corridor	87.12	+3550	Self levelling cement floor screed with epoxy floor paint	+6400	Cement board ceiling 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	+6817	Cement board ceiling ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint

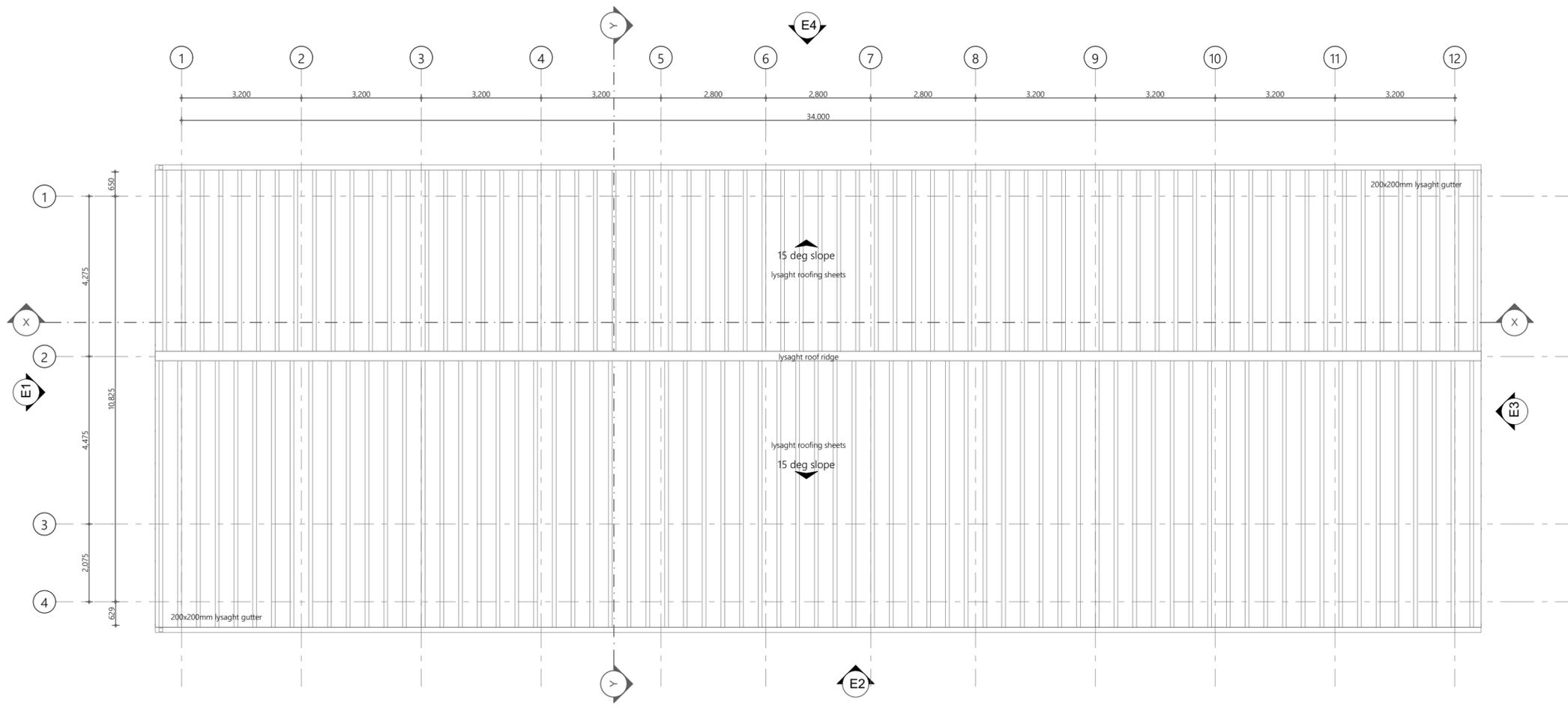
Note: All heights are taken from Natural Ground Level +00

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Roof Plan
1:100

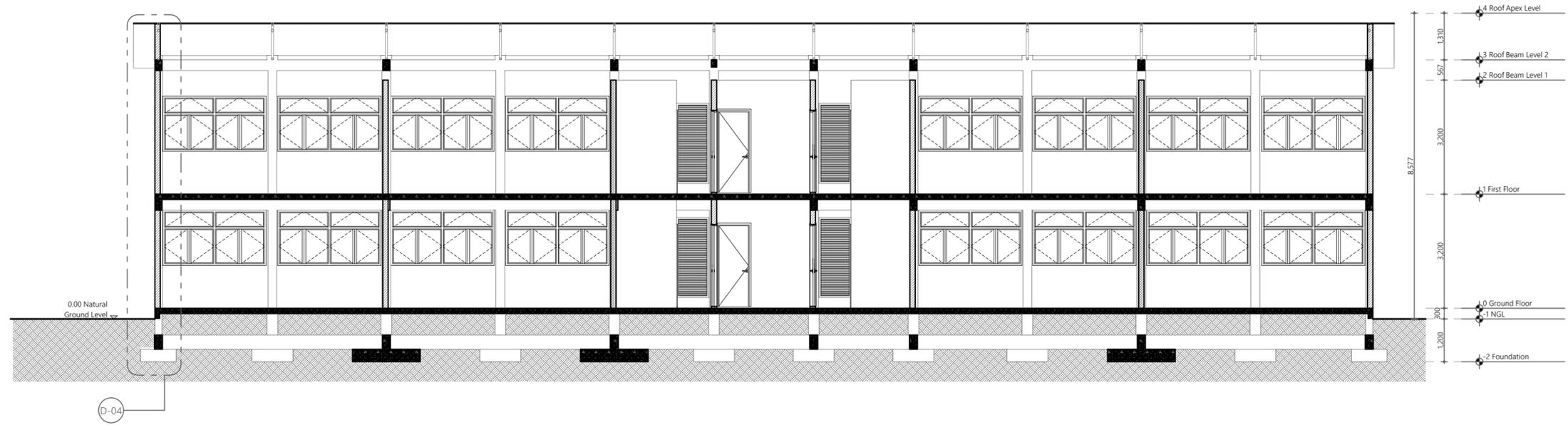
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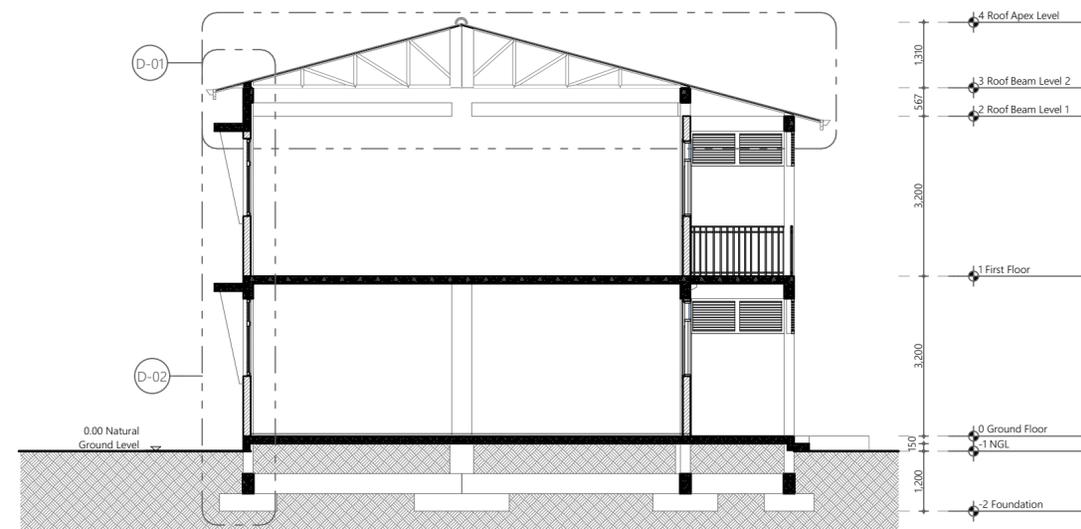
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Section X-X
1:100



Section Y-Y
1:100

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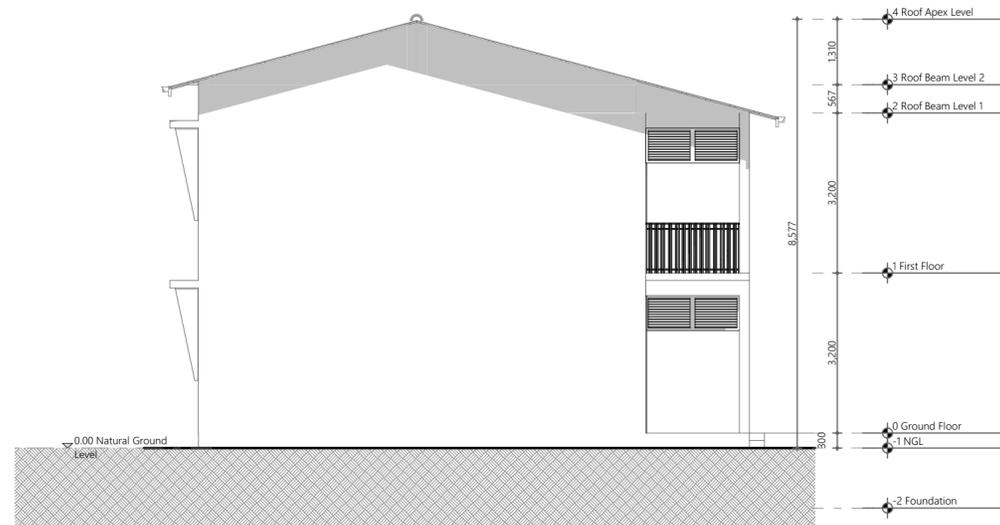
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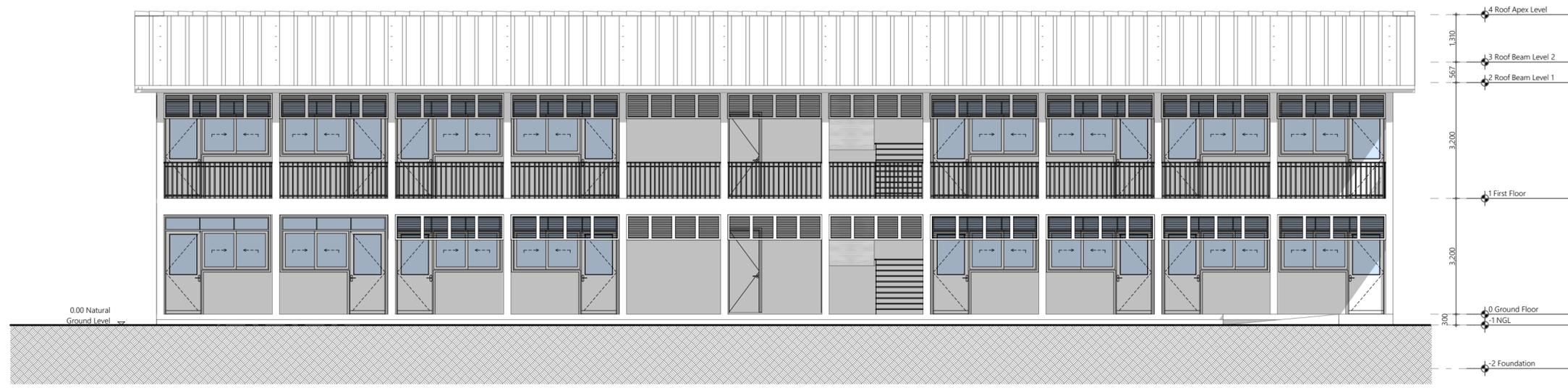
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Elevation E1
1:100



Elevation E2
1:100

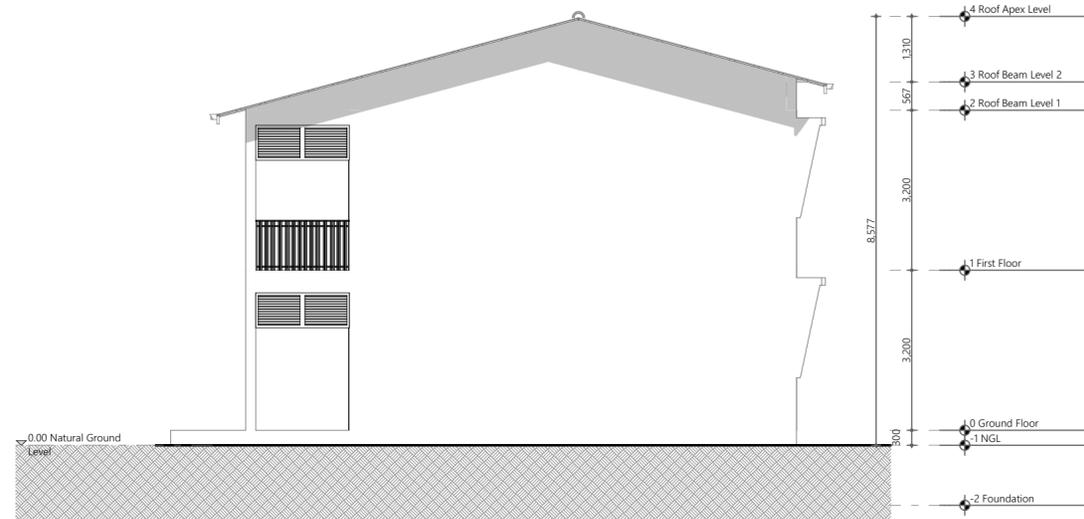
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Elevation E3
1:100



Elevation E4
1:100

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All Openings Schedule								
Element ID	D01	D02	D03	D04	W01	W02	W03	W04
Quantity	8	8	2	16	4	4	4	6
W x H Size	700x2,300	900x2,300	1,100x2,300	2,900x2,700	650x750	900x2,250	1,875x700	2,600x700
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

All Openings Schedule		
Element ID	W05	W06
Quantity	16	14
W x H Size	2,900x1,550	3,000x700
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

All Openings Schedule
1:1

Ventilation Schedule						
Home Story	Zone Name	Area (sqm)	Opening	Required Opening	Designed Opening	Opening %
Ground Floor	Classroom 1	54.06	D04 X 2, W05 X 2	5.406	14.5	26.82
	Classroom 2	53.8	D04 X 2, W05 X 2	5.38	14.5	26.95
	Classroom 3	54.28	D04 X 2, W05 X 2	5.428	14.5	26.71
	Classroom 4	54.28	D04 X 2, W05 X 2	5.428	14.5	26.71
	Cleaner closet	4.35				Mechanical
	Corridor	89.38				Open
	Store	7.3				Mechanical
	Toilet (F)	11.07	W02	1.107	1.72	15.54
	Toilet (M)	11.15	W02	1.115	1.72	15.43
	Toilet for disabled	6.82				Mechanical
First Floor	Classroom 5	54.06	D04 X 2, W05 X 2	5.406	14.5	26.82
	Classroom 6	53.8	D04 X 2, W05 X 2	5.38	14.5	26.95
	Classroom 7	54.28	D04 X 2, W05 X 2	5.428	14.5	26.71
	Classroom 8	54.28	D04 X 2, W05 X 2	5.428	14.5	26.71
	Cleaner closet	4.35				Mechanical
	Corridor	87.12				Open
	Store	7.3				Mechanical
	Toilet (F)	11.07	W02	1.107	1.72	15.54
	Toilet (M)	11.15	W02	1.115	1.72	15.43
	Toilet for disabled	6.82				Mechanical

Ventilation Schedule
1:43.92

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame
All measurements to be verified by manufacturer

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 wedge 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 conform 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

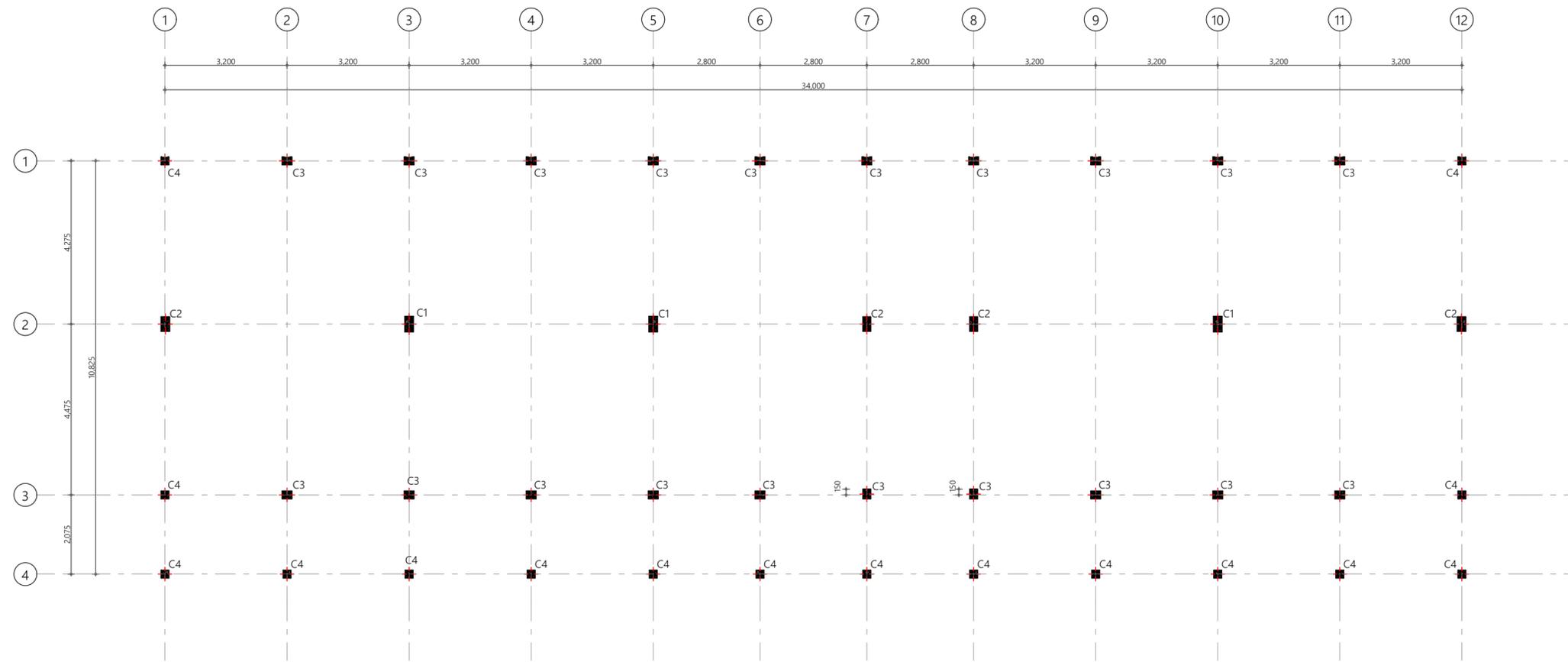
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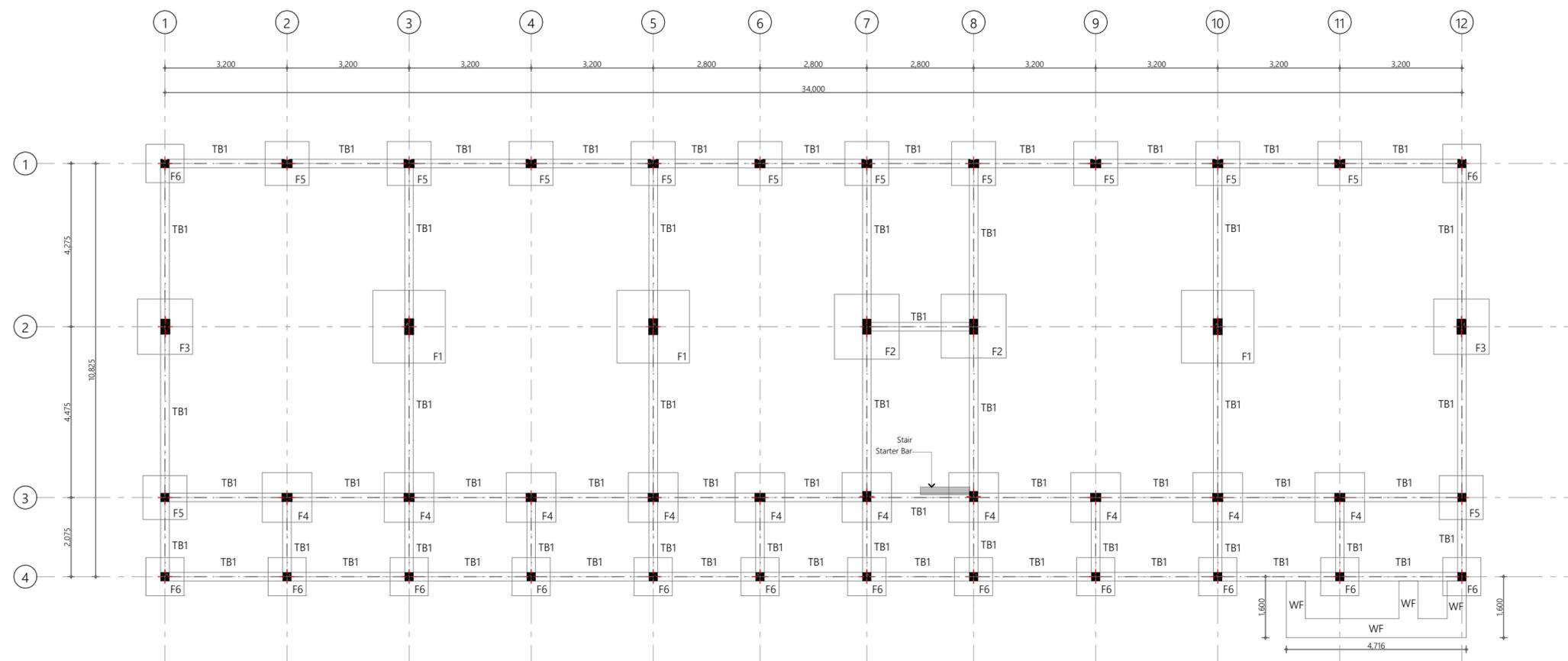
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Column Layout
1:100



Foundation Plan
1:100

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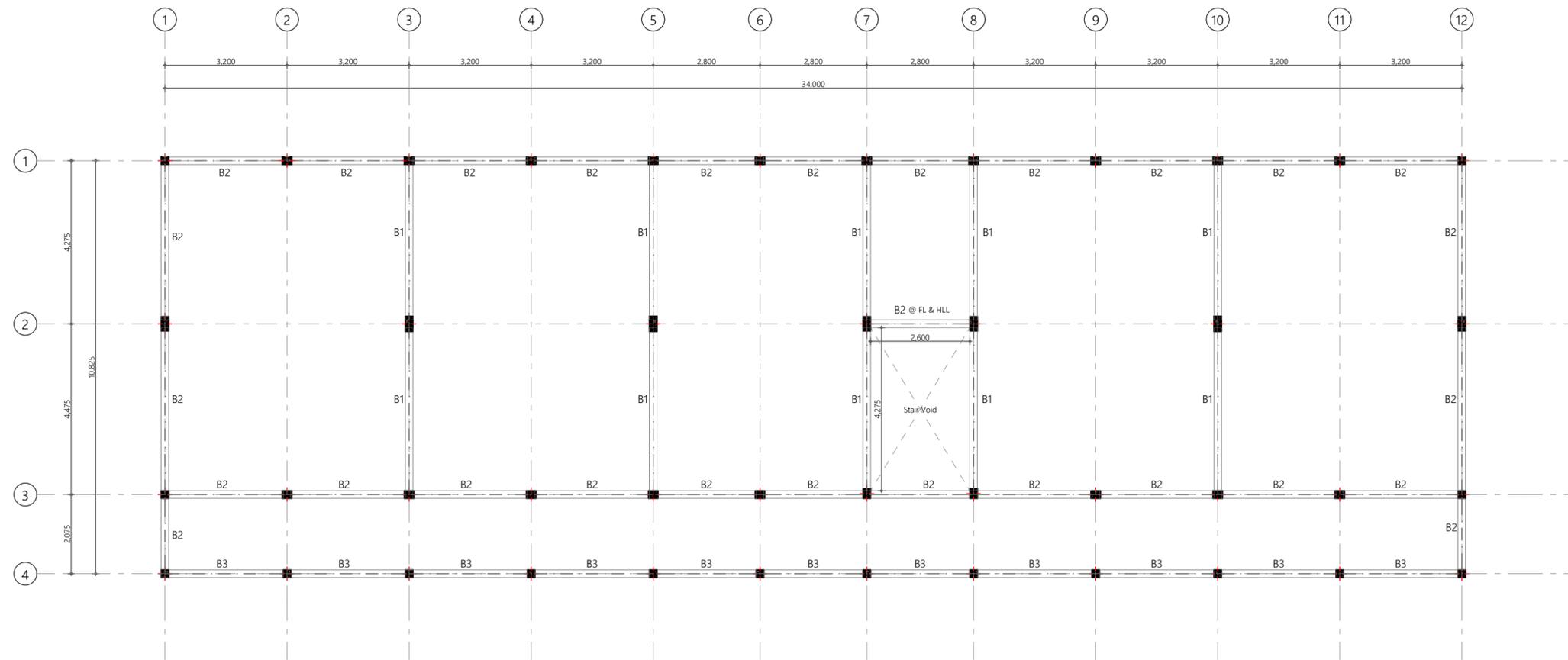
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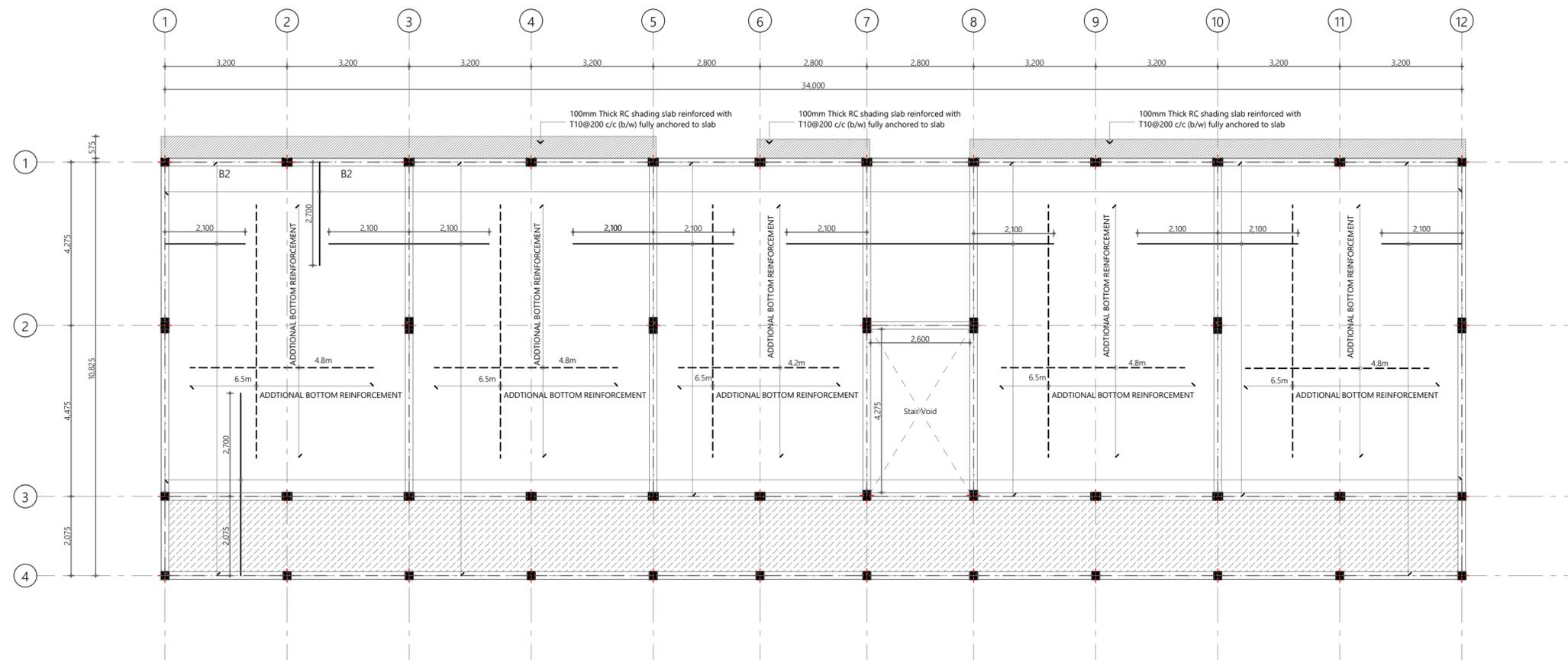
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First Floor Beam Plan
1:100



- 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 Floor Slab Reinforcement Plan
1:100

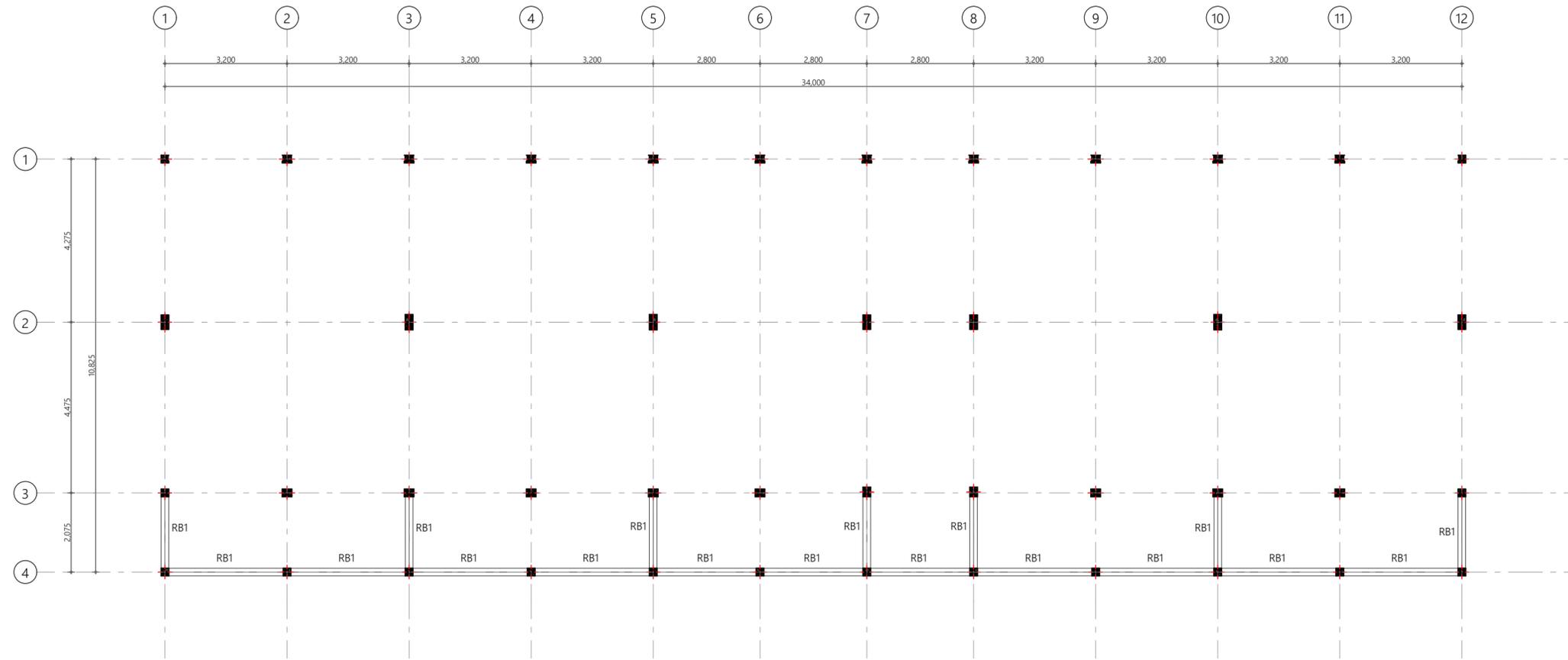
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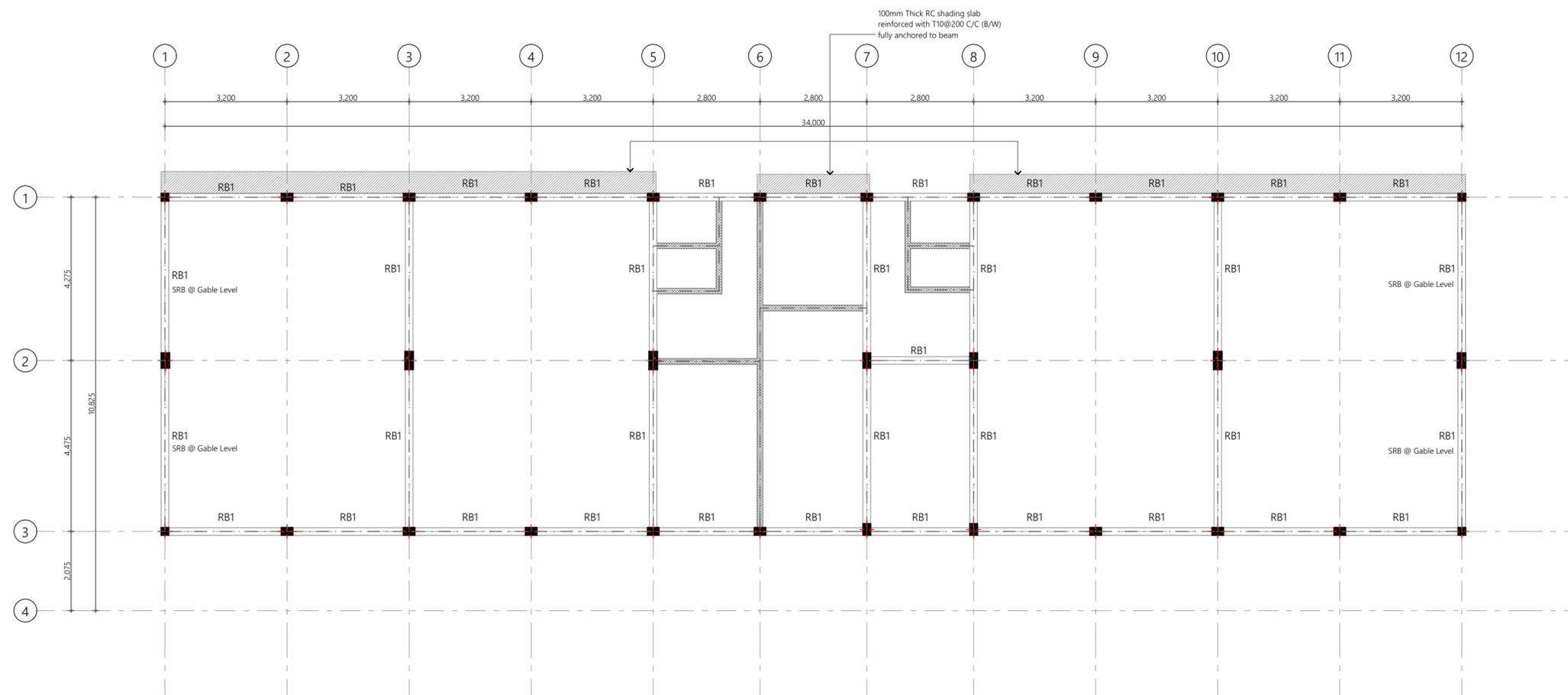
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Roof Beam Level 1
1:100



Notes:

▨ WCB (Wall cast beam cast on top)

Roof Beam Level 2
1:100

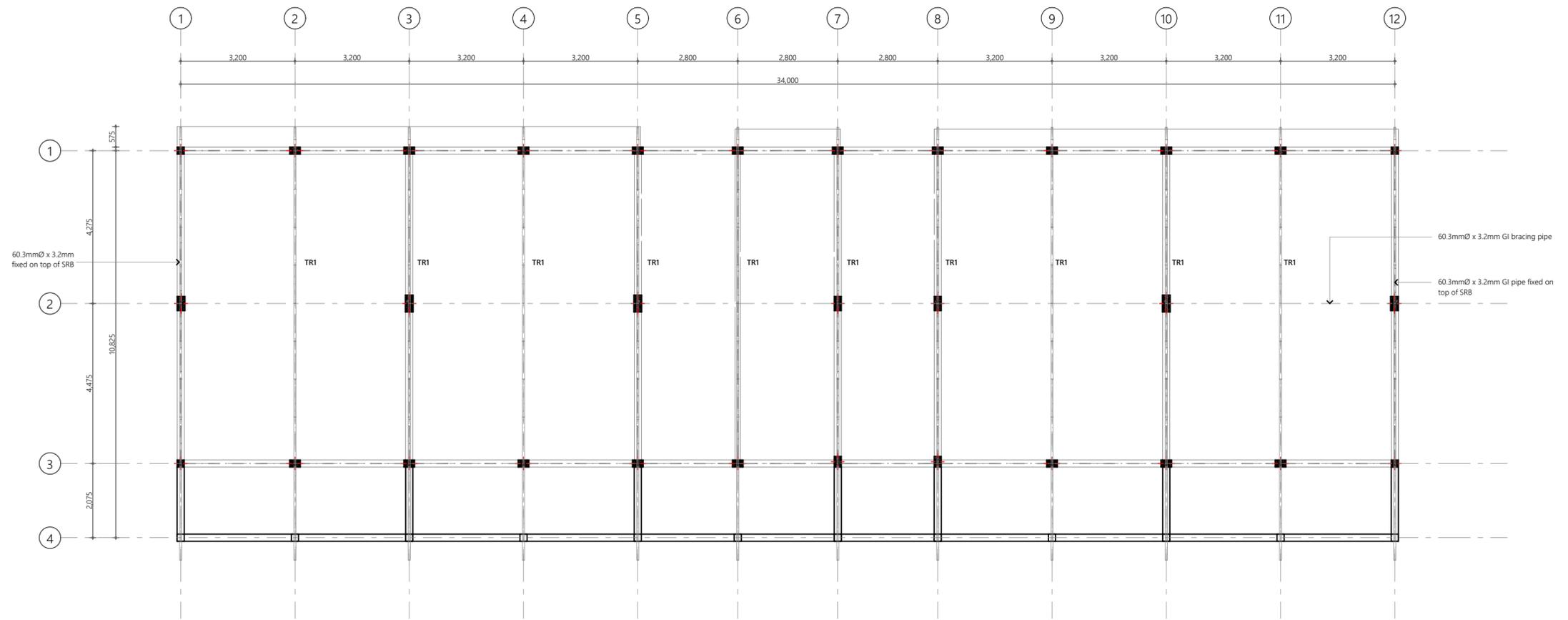
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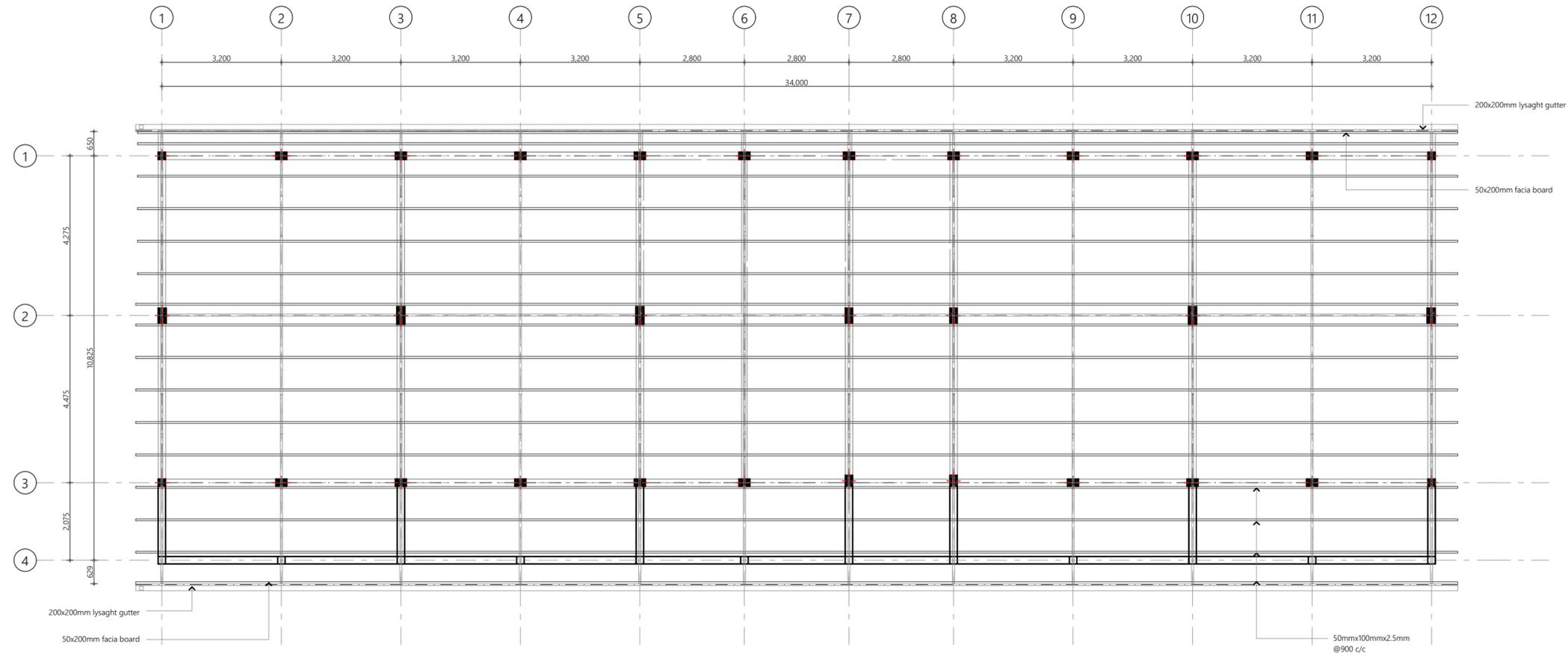
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Roof Truss
1:100



Roof Framing
1:100

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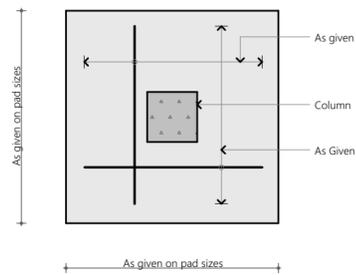
Foundation Notes:

	Dimensions	Reinforcement	Foundation depth
F1	1900X1900X350	T12@125 C/C B/W (B)	1200mm
F2	1700X1700X350	T12@150 C/C B/W (B)	1200mm
F3	1450X1450X350	T12@150 C/C B/W (B)	1200mm
F4	1300X1300X350	T12@150 C/C B/W (B)	1200mm
F5	1150X1150X350	T12@150 C/C B/W (B)	1200mm
F6	1000X1000X350	T10@150 C/C B/W (B)	1200mm

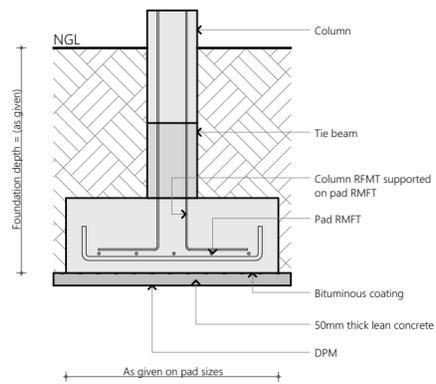
Ground Slab = 100mm thick RC slab on fill reinforced with T10@200 C/C (B/W)

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

Foundation Notes
1:100

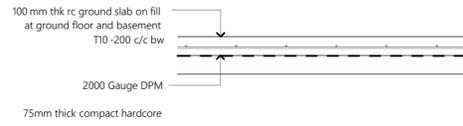


Plan View



Sectional View

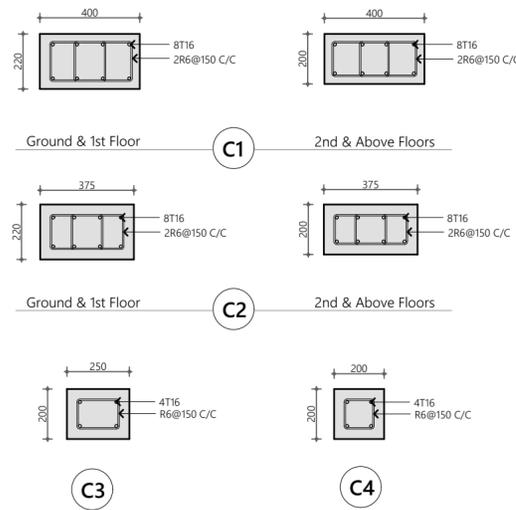
Typical Pad Footing Detail
1:20



NOTE:
All cover blocks shall be casted using grade C 25 / 30 concrete with 5-10 mm aggregates

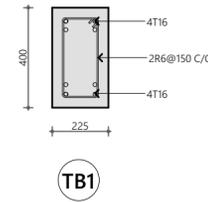
For slab, rebar spacer chairs spacing shall be minimum 1m spacing or 1no. per 1 sqm

Ground Slab Detail
1:20

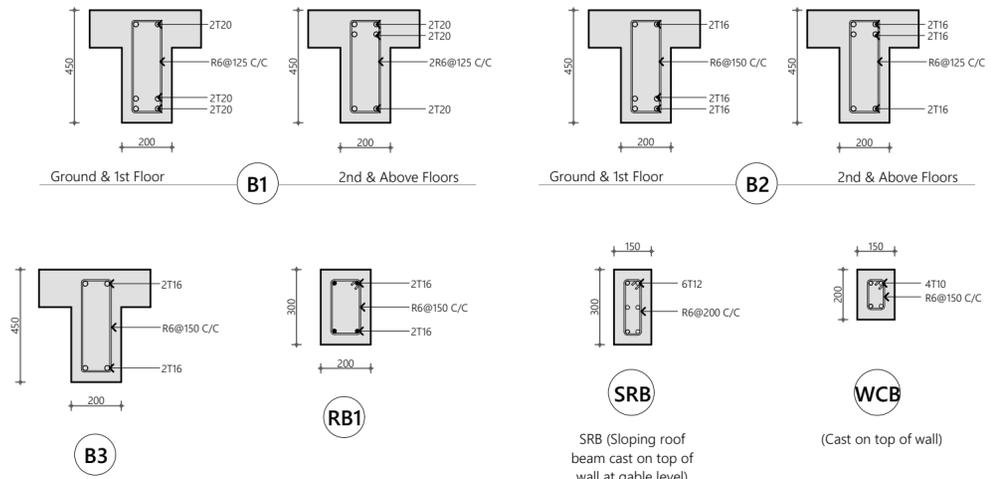


Column Details
1:20

Notes:
 Cover to foundations = 50mm
 Cover to floor slabs = 30mm
 Cover to floor beams = 35mm
 Cover to columns = 40mm
 Laps = 45Dia (Dia=Bar Diameter)
 Mid bars = 0.85 x Span
 Sup bars = 1/3 x Span
 Concrete mix = 1:2:3 (C:S:A)
 Lean concrete mix = 1:2:5



Tie Beam Details
1:20



Wall Cast Beam Detail
1:20

Beam Details
1:20

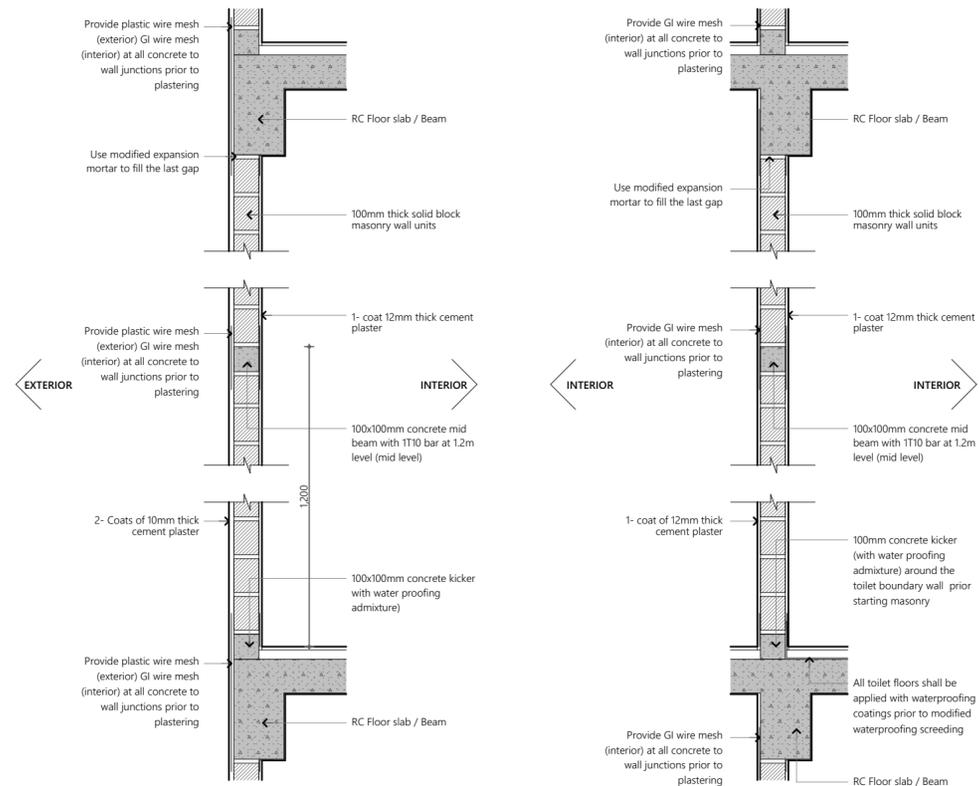
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Note:

- * 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

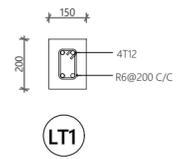
PROPOSED 04 STOREY BUILDING AT
**Hdh Kulhudhufushi
Afeefudheen School
2 Storey Building
with 08 classroom**

Client:
**Ministry of Education,
Maldives**

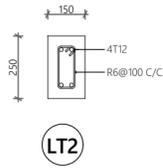
1/16/2021
Architect: Fathmath Ithudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ithudha Amir

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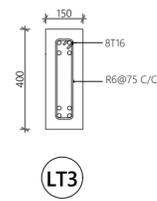
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LT1
 LINTELS OVER ALL DOORS, WINDOWS
 (THAT DOES NOT RISE TO BEAM LEVEL)
 LT1 FOR WINDOWS < 1.5M

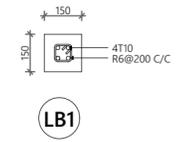


LT2
 LINTELS OVER ALL DOORS, WINDOWS
 (THAT DOES NOT RISE TO BEAM LEVEL)
 LT2 FOR WINDOWS > 1.5M & < 3.0M

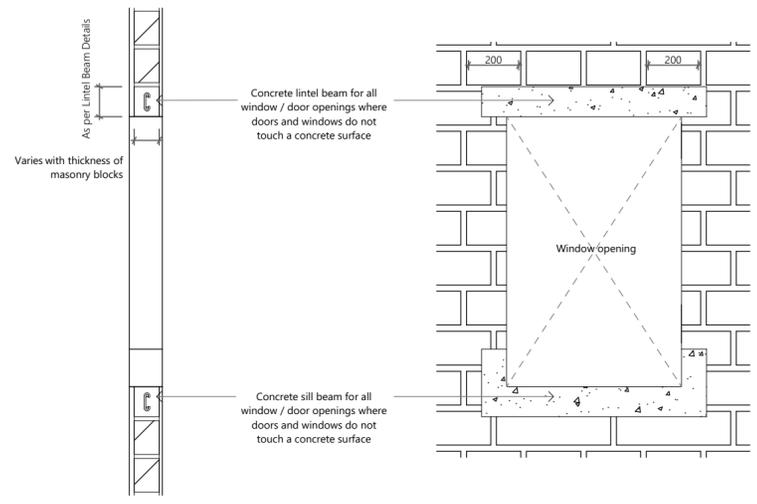


LT3
 LINTELS OVER ALL DOORS, WINDOWS
 (THAT DOES NOT RISE TO BEAM LEVEL)
 LT3 FOR WINDOWS > 3.0M & < 6.0M

Lintel Beam Detail
 1:20



LB1
Sill Beam Detail
 1:20



Typical Window Construction Detail

Window Construction Detail
 1:20

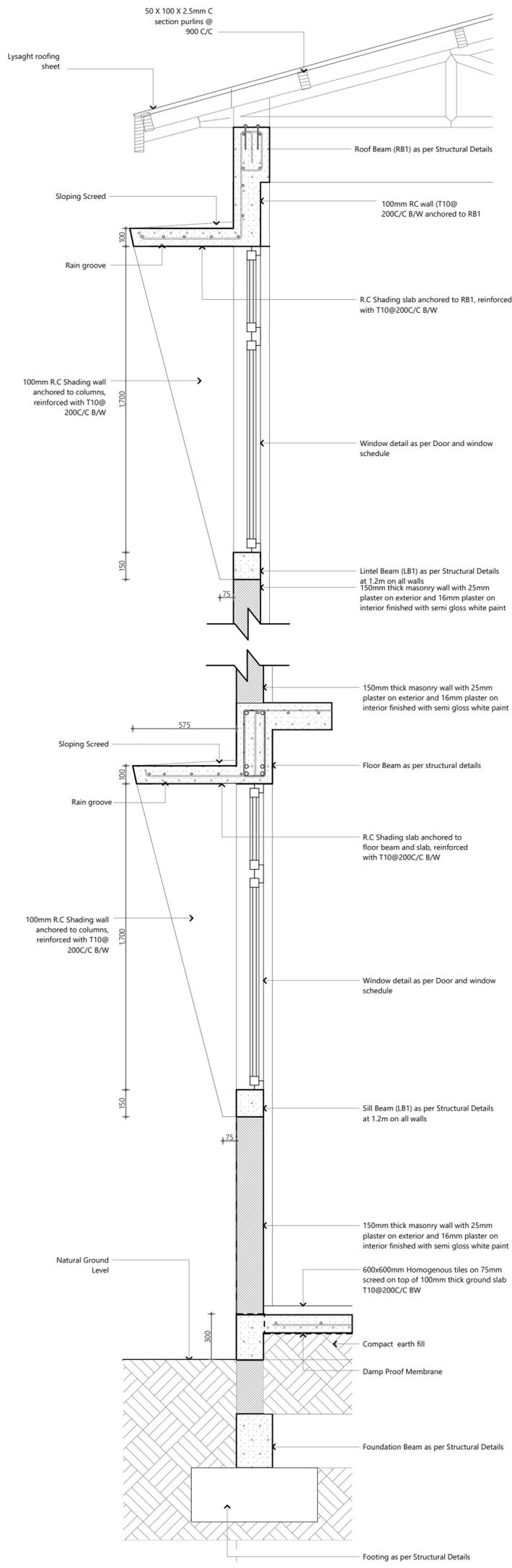
PROPOSED 04 STOREY BUILDING AT
Hdh Kulhudhufushi
Afeefudheen School
2 Storey Building
with 08 classroom

Client:
Ministry of Education,
Maldives

1/16/2021
 Architect: Fathmath Ibadha Amir
 Engineer: Ihsaan Waheed
 Drawn By: Fathmath Ibadha Amir

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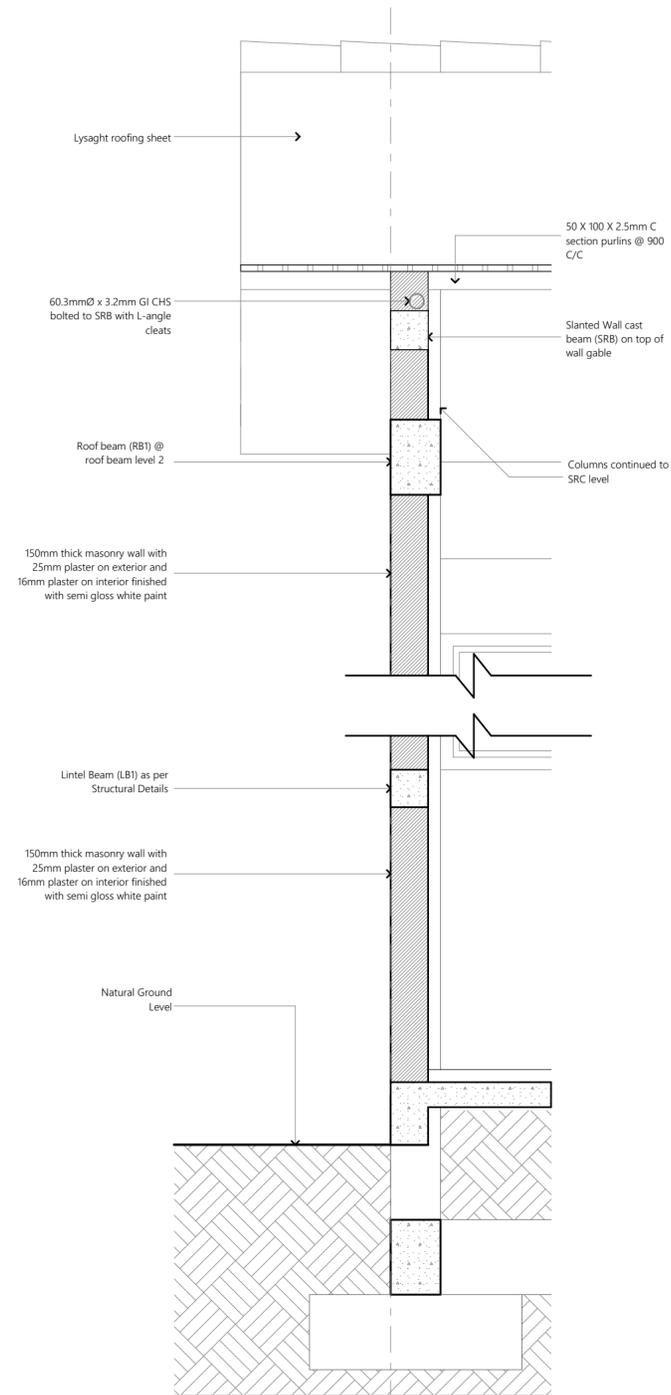
Detail D-02
1:20

PROPOSED 01 STOREY BUILDING AT
**Hdh Kulhudhufushi
 Afeefudheen School
 2 Storey Building
 with 08 classroom**
 Client:
 Ministry of Education,
 Maldives

1/16/2021
 Architect: Fathmath Ithudha Amir
 Engineer: Ihsaan Waheed
 Drawn By: Fathmath Ithudha Amir

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Detail D-04
1:20

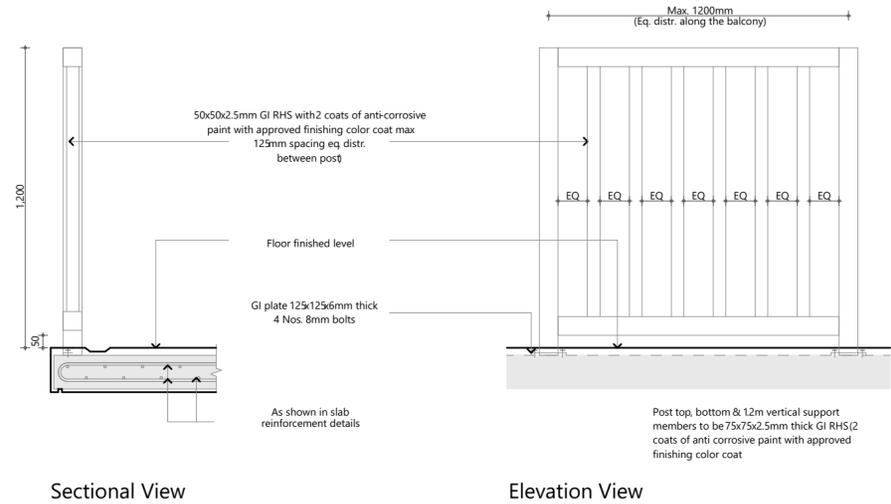
PROPOSED 04 STOREY BUILDING AT
**Hdh Kulhudhufushi
 Afeefudheen School
 2 Storey Building
 with 08 classroom**

Client:
**Ministry of Education,
 Maldives**

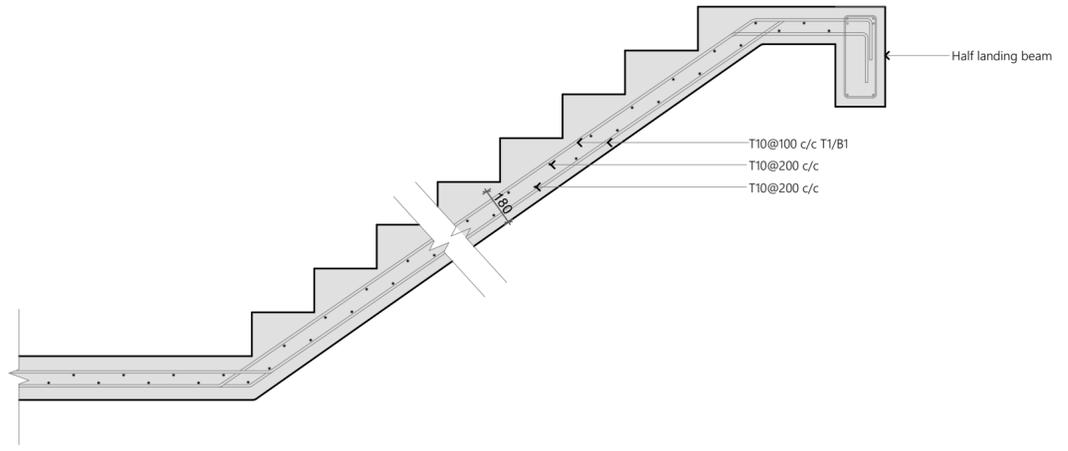
1/16/2021
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 Engineer: Ihsaan Waheed
 Drawn By: Fathmath Ithudha Amir

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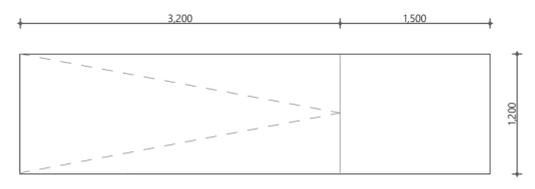
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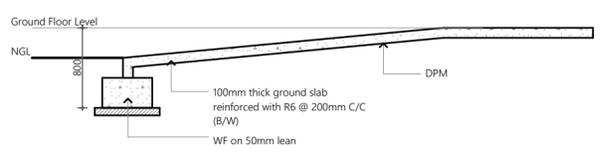
Balcony railing detail
1:20



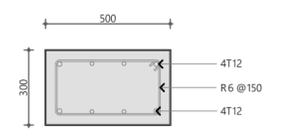
Stair Reinforcement Detail
1:20



Ground Floor Ramp Plan View

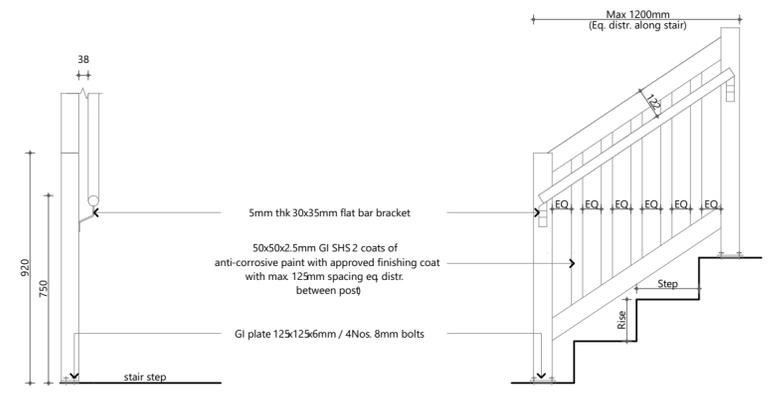


Ground Floor Ramp Elevation View



Wall Footing (WF) Detail
Scale = 1:20

Ramp Details
1:50



1. Post top, bottom & 12m vertical support members to be 75x75x2.5mm thick GI SHS (2 coats of anti-corrosive paint with approved finishing color coat)
2. Handrail material to be 50mm Ø 2.5mm thick GI CHS with 2 coats of anti-corrosive paint and approved finishing coat
3. Step: 300mm
4. Raise: 152mm

Stair Railing Detail
1:20

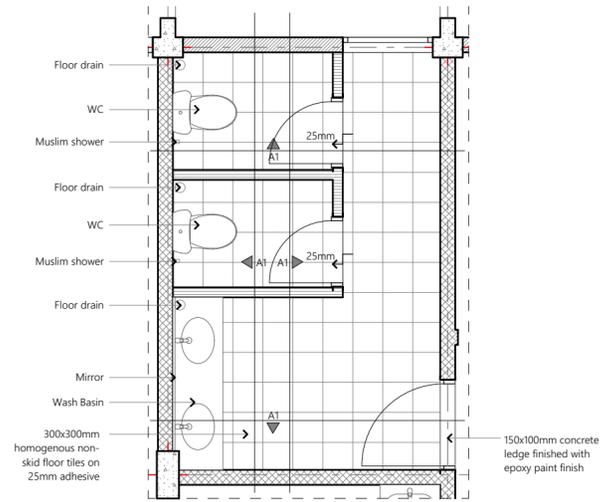
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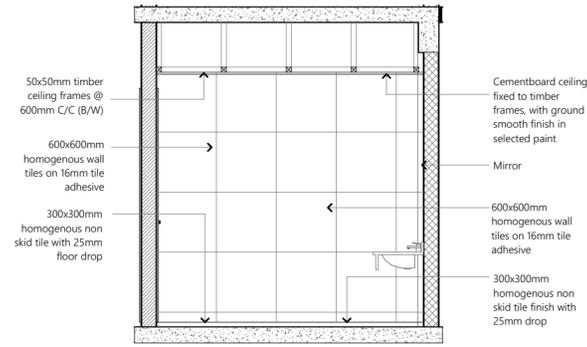
1/16/2021
Architect: Fathmath Ithudha Amir
Engineer: Insaam Waheed
Drawn By: Fathmath Ithudha Amir

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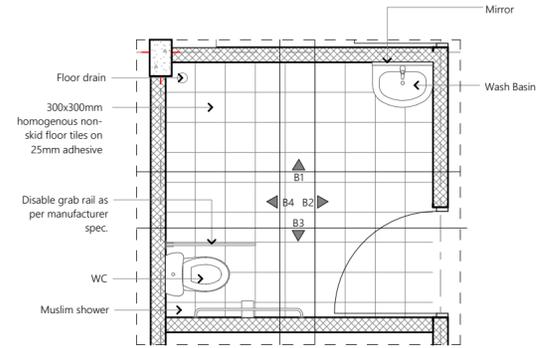
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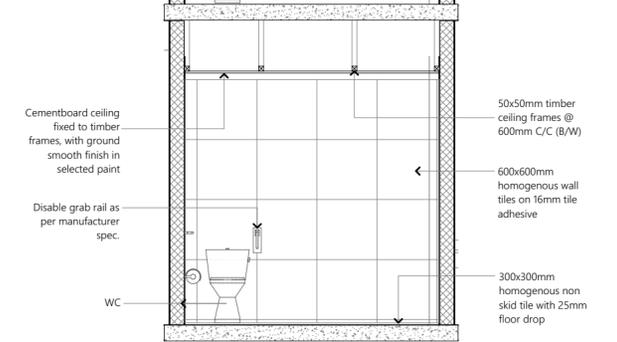
Toilet Plan (Male and Female)
1:50



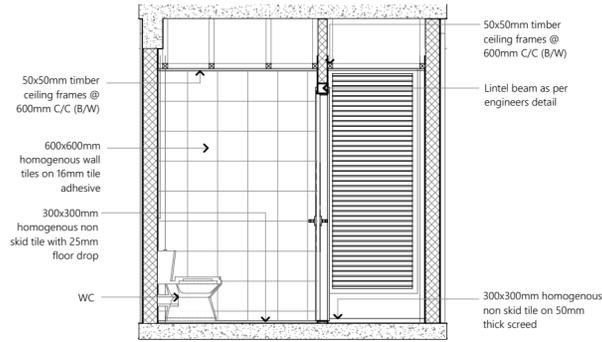
A3
1:50



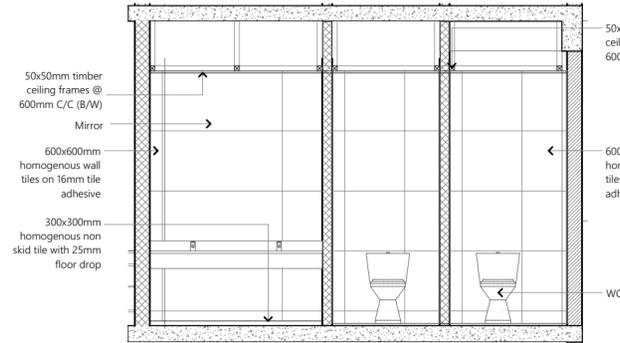
Disable Toilet Floor Plan
1:50



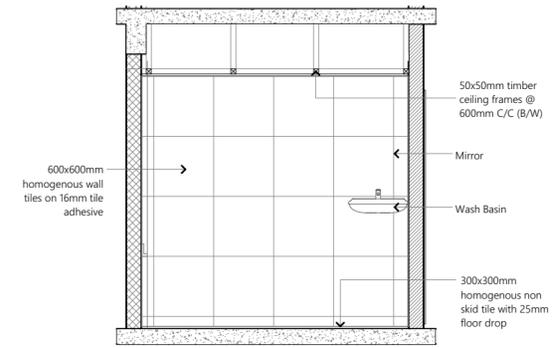
Elevation B4
1:50



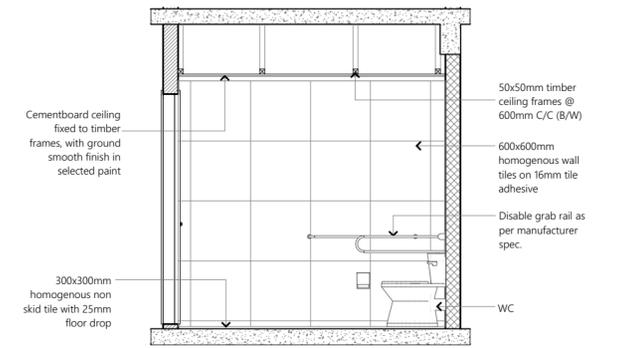
A1
1:50



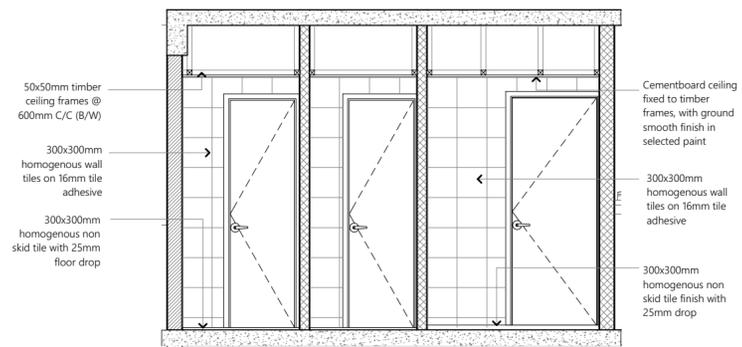
A4
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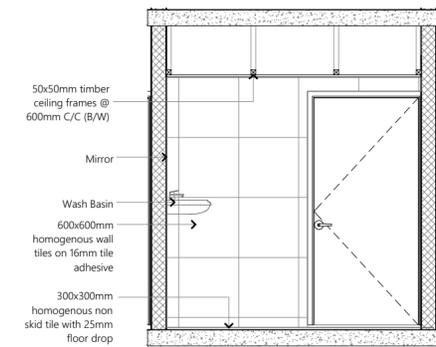
Elevation B1
1:50



Elevation B3
1:50



A2
1:50



Elevation B2
1:50

PROPOSED 04 STOREY BUILDING AT
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2 Storey Building
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Client:
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1/16/2021

Architect: Fathmath Ithudha Amir
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