

ARCHITECTURAL & STRUCTURAL DRAWINGS OF

PROPOSED 04 STOREY BUILDING

Sh Foakaidhoo 4 Storey Classroom Block

For Ministry of Education, Maldives

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PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:

Ministry of Education,
Maldives

16/09/2020

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



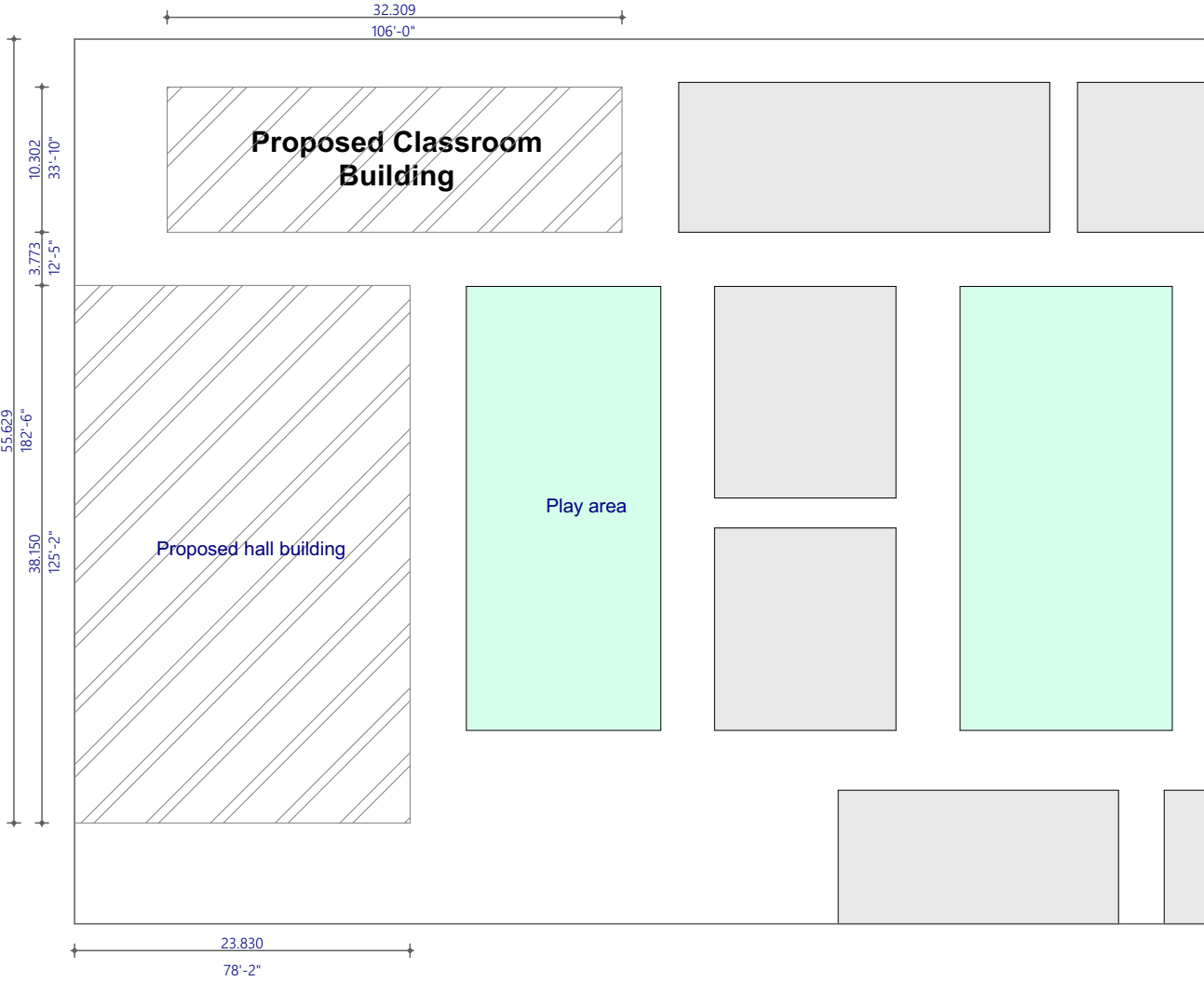
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Location Plan



Site Plan (source: google map)
1:500

Site
1:500

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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

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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	+3100	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	+3100	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	+3100	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	+3100	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Corridor	77.94	+350	Self levelling cement floor screed with epoxy floor paint	+3100	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	+3100	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	+350	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+3100	Cement board ceiling	300mm X 300mm Homogenous wall tiles
Ground Floor	Toilet (M)	11.15	+350	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+3100	Cement board ceiling	300mm X 300mm Homogenous wall tiles
Ground Floor	Toilet for disabled	6.82	+350	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+3100	Cement board ceiling	300mm X 300mm Homogenous wall tiles

Ground Floor Plan

1:100, 1:1

PROPOSED 01 STOREY BUILDING AT
Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

Architect: Fathmath Ihudha Amir
Engineer: Ihsaan Waheed
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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	+6100	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	+6100	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	+6100	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	+6100	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Corridor	75.51	+3550	Self levelling cement floor screed with epoxy floor paint	+6100	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	+6100	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	+3550	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+6100	Cement board ceiling	300mm X 300mm Homogenous wall tiles
First Floor	Toilet (M)	11.15	+3550	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+6100	Cement board ceiling	300mm X 300mm Homogenous wall tiles

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo 4 Storey Building with 12 classroom

Client:

Ministry of Education,
Maldives

16/09/2020

Architect: Fathmath Ihudha Amir
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First Floor Plan

1:100, 1:1



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	75.62	+6700	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	+6700	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling	300mm X 300mm Homogenous wall tiles
Second Floor	Toilet (M)	11.15	+6700	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling	300mm X 300mm Homogenous wall tiles

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo 4 Storey Building with 12 classroom

Client:

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16/09/2020

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Second Floor Plan

1:1, 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	+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
Third Floor	Classroom 11	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
Third Floor	Classroom 12	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
Third 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
Third Floor	Corridor	75.51	+6700	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	+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
Third Floor	Toilet (F)	11.07	+6700	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling	300mm X 300mm Homogenous wall tiles
Third Floor	Toilet (M)	11.15	+6700	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+10370	Cement board ceiling	300mm X 300mm Homogenous wall tiles

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo 4 Storey Building with 12 classroom

Client:

Ministry of Education,
Maldives

16/09/2020

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Drawn By: Fathmath Ihudha Amir



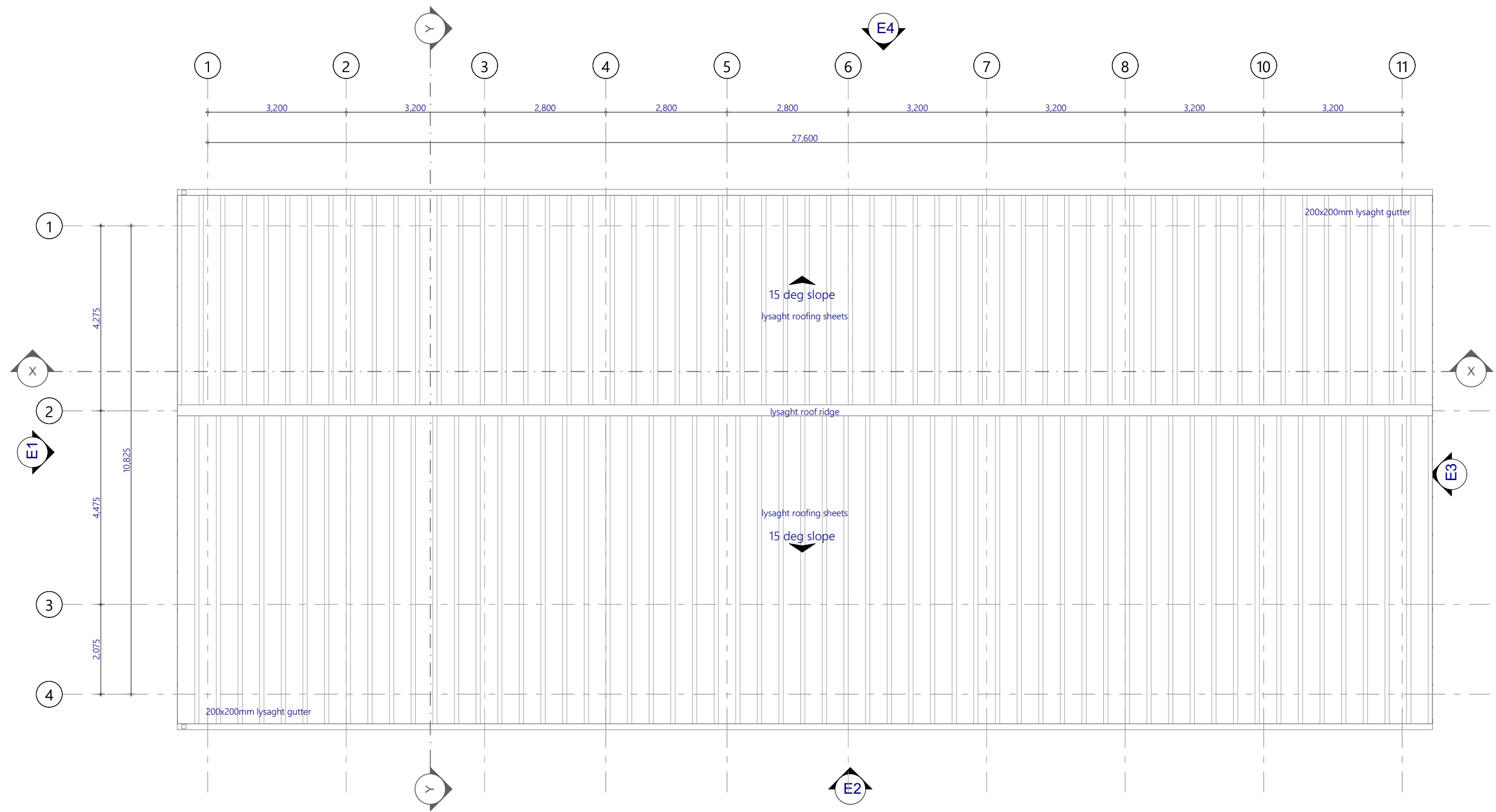
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Third Floor Plan

1:1, 1:100



PROPOSED 01 STOREY BUILDING AT

**Sh.Foakaidhoo
4 Storey Building
with 12 classroom**

Client:
**Ministry of Education,
Maldives**

16/09/2020

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Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir

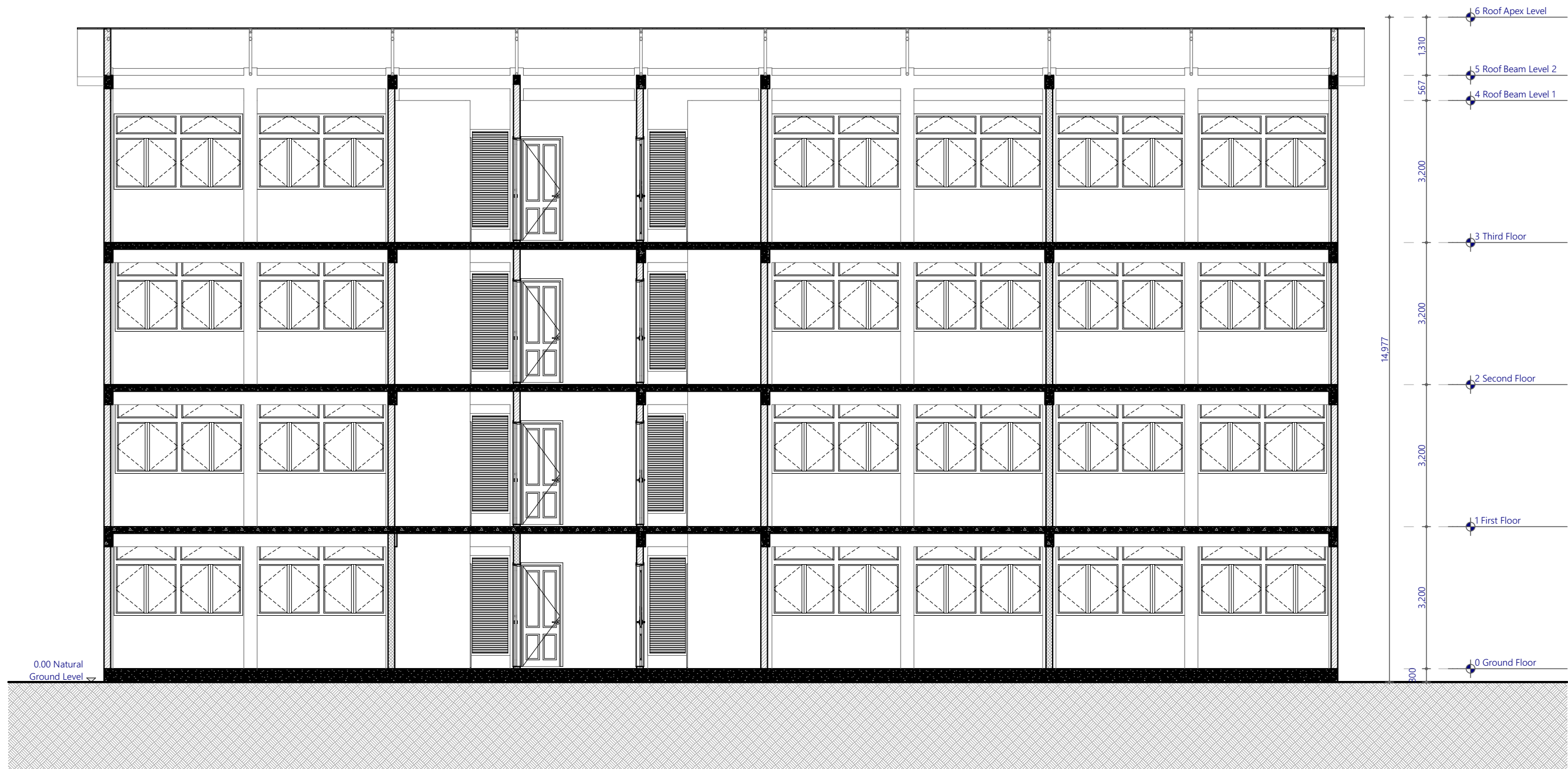


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Roof Plan

1:100



PROPOSED 01 STOREY BUILDING AT

**Sh.Foakaidhoo
4 Storey Building
with 12 classroom**

Client:
**Ministry of Education,
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16/09/2020

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Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir

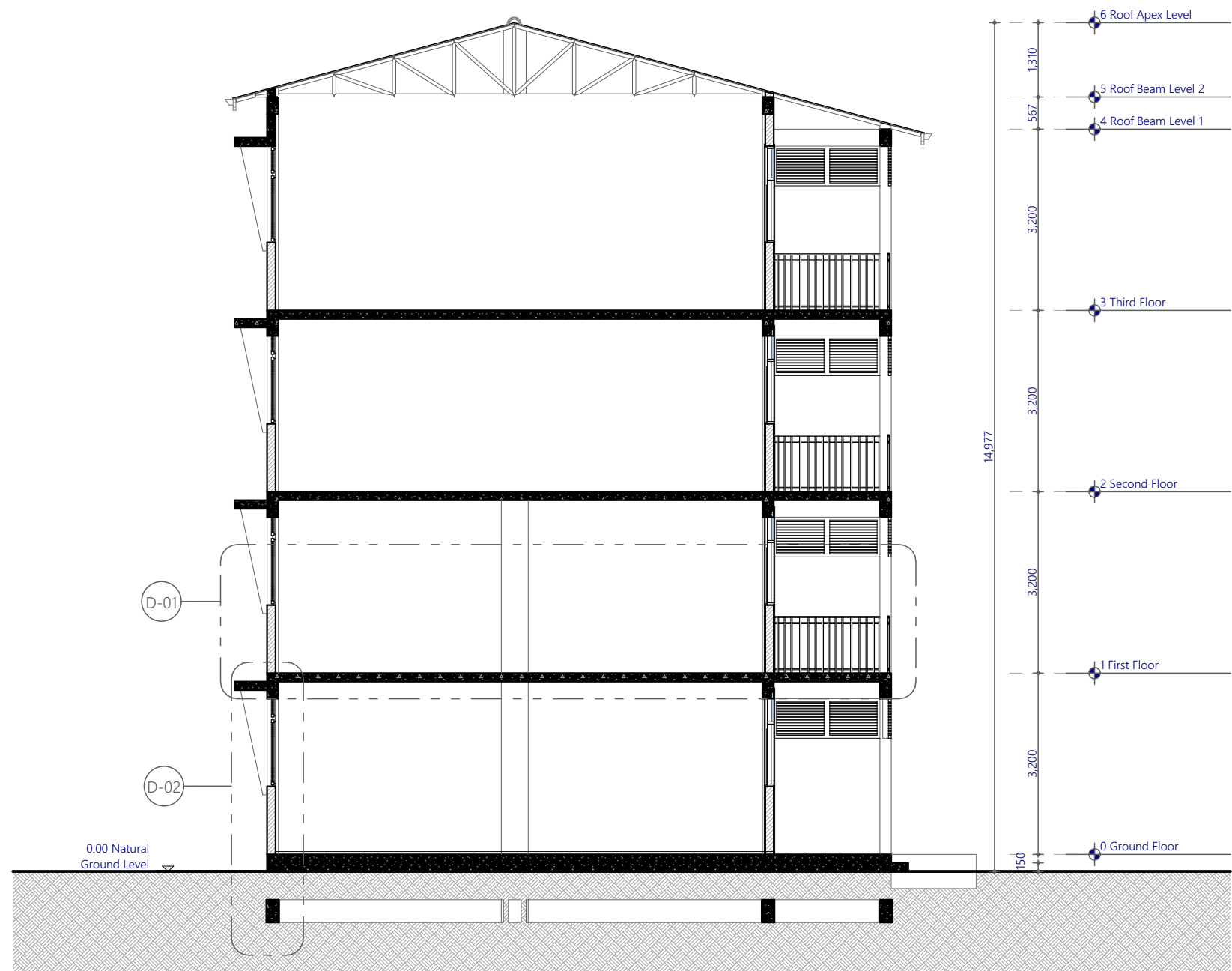


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Sections X-X

1:100



PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:

Ministry of Education,
Maldives

16/09/2020

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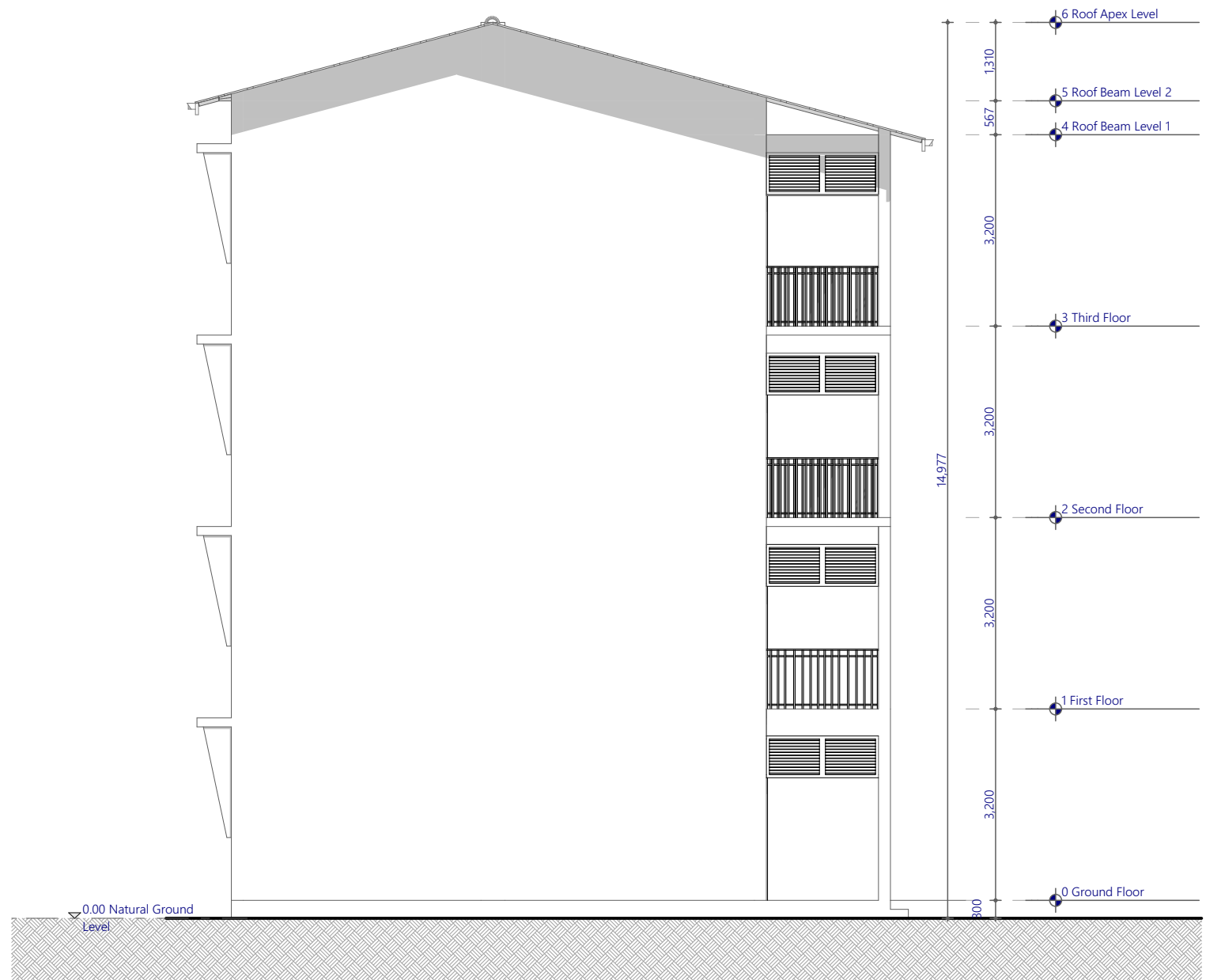
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Section Y-Y

1:100



Elevation E1
1:100

Elevation E1
1:100


PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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



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PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

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

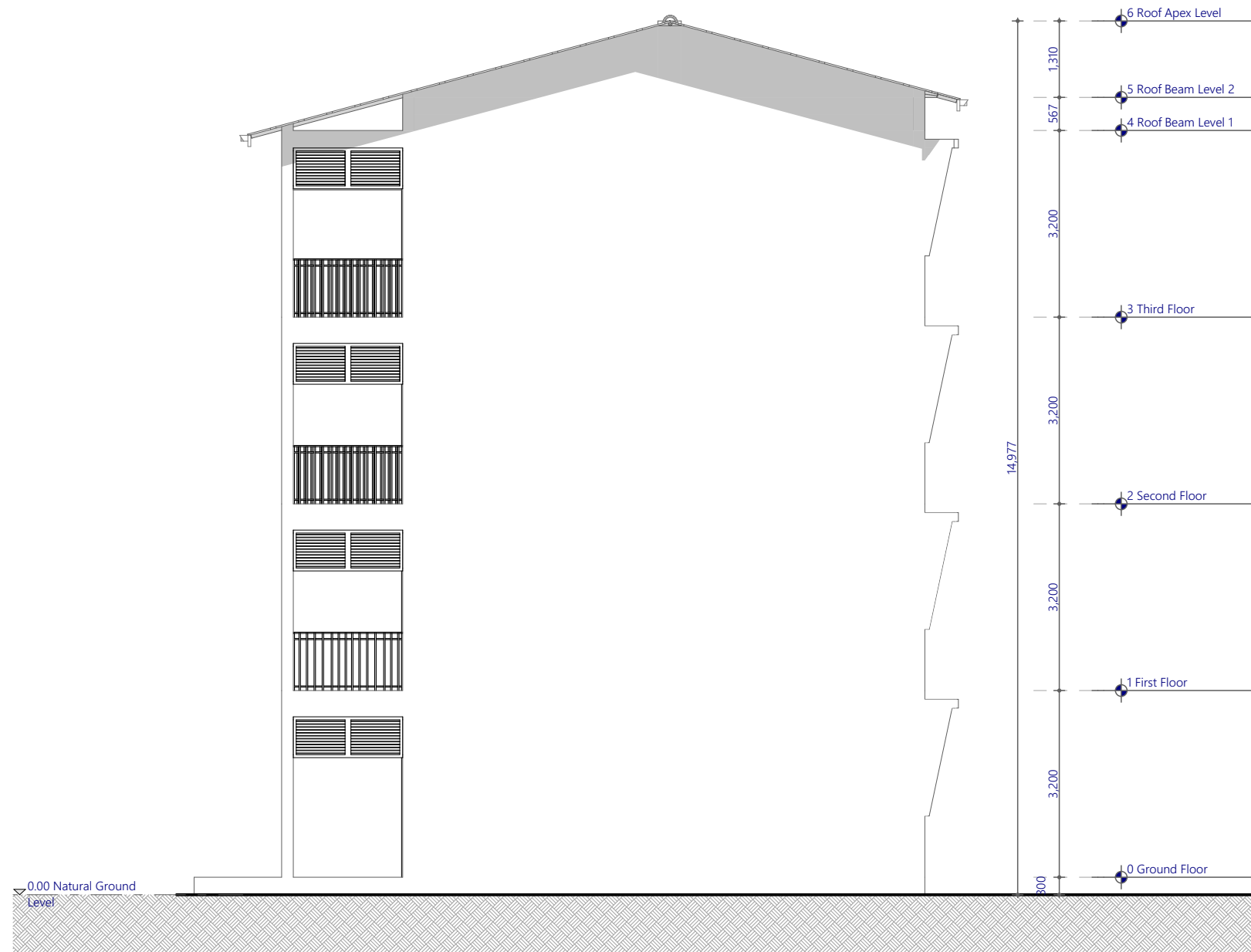
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Elevation E2

1:100



PROPOSED 01 STOREY BUILDING AT

**Sh.Foakaidhoo
4 Storey Building
with 12 classroom**

Client:
**Ministry of Education,
Maldives**

16/09/2020

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Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir



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Elevation E3

1:100



PROPOSED 01 STOREY BUILDING AT

**Sh.Foakaidhoo
4 Storey Building
with 12 classroom**

Client:
**Ministry of Education,
Maldives**

16/09/2020

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



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Elevation E4

1:100

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

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm
All dor panel thicknesses are 35mm
All window manel thickness are 25mm
Al frame edges shal be trimmed 3mm

All wdden 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 12X12mm hardwood beading fixed to
frames by brass nails

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

Hinges shall confirm to

- Door size more than 700X1900mm
WD: 125mm X2 sets
SD: 150mm X3 sets
- Door size less than 700X1900mm
WD: 100mm X2 sets
SD: 125mm X2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be1000mm above FFL

All Openings Schedule				
Element ID	W02	W03	W04	W05
Quantity	8	8	12	24
W x H Size	900×2,250	1,875×700	2,600×700	2,900×1,700
2D Symbol				
View from Side Opposite to Opening Side				
Frame Outside	6mm Thick powder coated (60 microns) Aluminum frame of a selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	6mm Thick powder coated (60 microns) Aluminum frame of a selected colour	6mm Thick powder coated (60 microns) Aluminum frame of a selected colour
Glass	---	---	---	---
Leaf Outside	---	---	---	---
Sash Outside	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	Clear Glass

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm
All dor panel thicknesses are 35mm
All window manel thickness are 25mm
Al frame edges shal be trimmed 3mm

All wdden components should be wood stained finish

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External units must comply the following weather conditions:-
Wind pressure: 200 kg/sqm
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All external frames / wall joints must be sealed with silicon sealant
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frames by brass nails

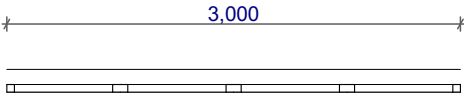
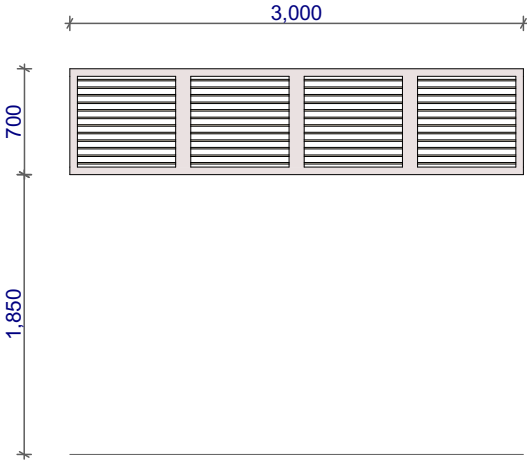
All hardware should be provided for the performance of al functions
of the units

Hinges shall confirm to

1. Door size more than 700X1900mm
WD: 125mm X2 sets
SD: 150mm X3 sets
2. Door size less than 700X1900mm
WD: 100mm X2 sets
SD: 125mm X2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be1000mm above FFL

All Openings Schedule	
Element ID	W06
Quantity	24
W x H Size	3,000×700
2D Symbol	
View from Side Opposite to Opening Side	
Frame Outside	6mm Thick powder coated (60 microns) Aluminum frame of a selected colour
Glass	---
Leaf Outside	---
Sash Outside	50mm Thick powder coated (60 microns) Aluminum panel of selected colour

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm
All dor panel thicknesses are 35mm
All window manel thickness are 25mm
Al frame edges shal be trimmed 3mm

All wodden 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 12X12mm hardwood beading fixed to frames by brass nails

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

- Hinges shall confirm to
- Door size more than 700X1900mm
WD: 125mm X2 sets
SD: 150mm X3 sets
 - Door size less than 700X1900mm
WD: 100mm X2 sets
SD: 125mm X2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be1000mm above FFL

All Openings Schedule

1:1, 1:100

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:

Ministry of Education,
Maldives

16/09/2020

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



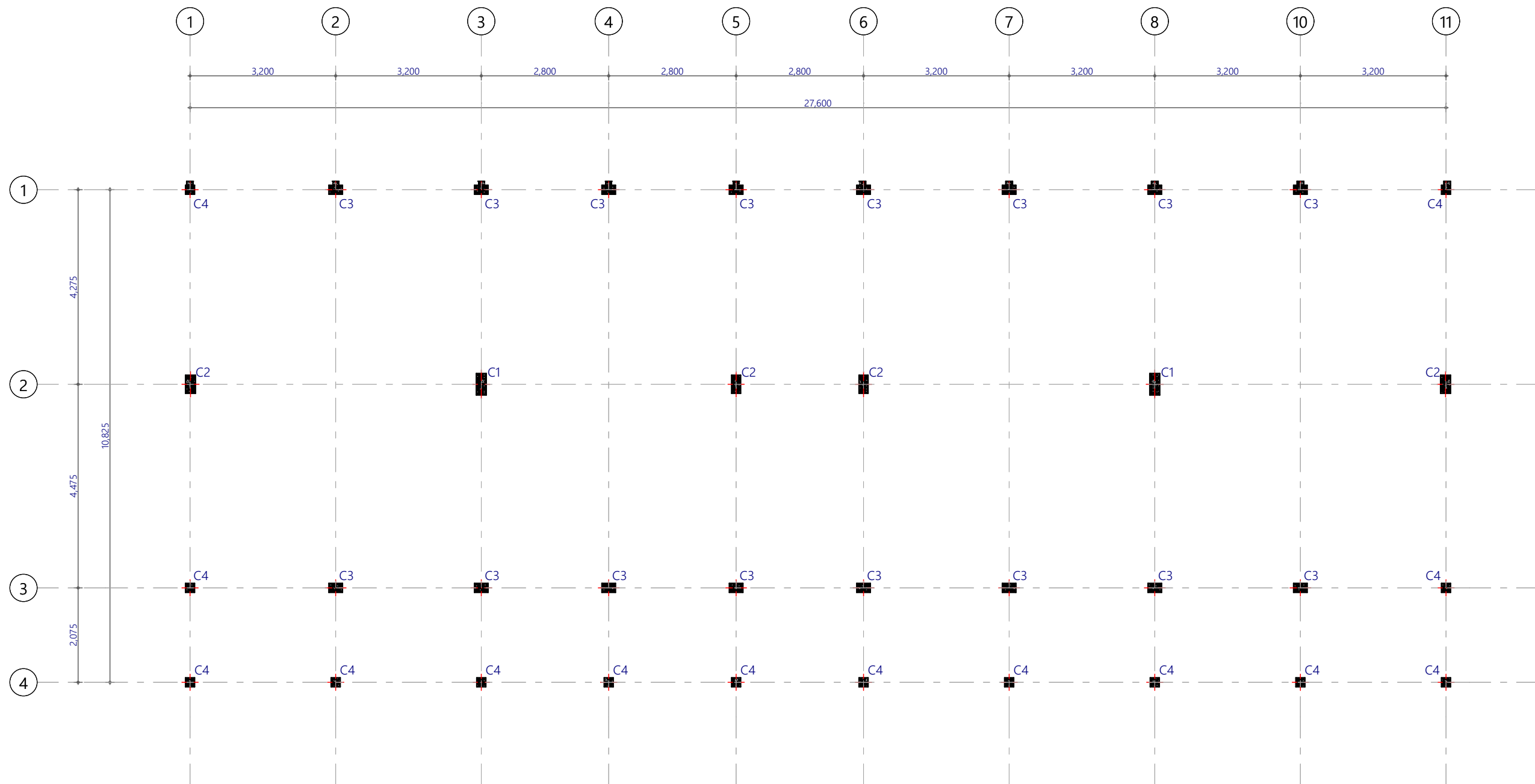
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VENTILATION SCHEDULE					
Room Name	Room Area	Opening	Required Opening	Designed Opening	Opening %
Ground Floor					
Classroom 1	53.8	W5+W5	5.38	8.08	15.02
Toilet M	11.15	W2	1.115	1.7	15.25
Store	7.3	W1+W1	0.73	0.74	10.14
Toilet F	11.07	W2	1.107	1.7	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



PROPOSED 01 STOREY BUILDING AT

**Sh.Foakaidhoo
4 Storey Building
with 12 classroom**

Client:

**Ministry of Education,
Maldives**

16/09/2020

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



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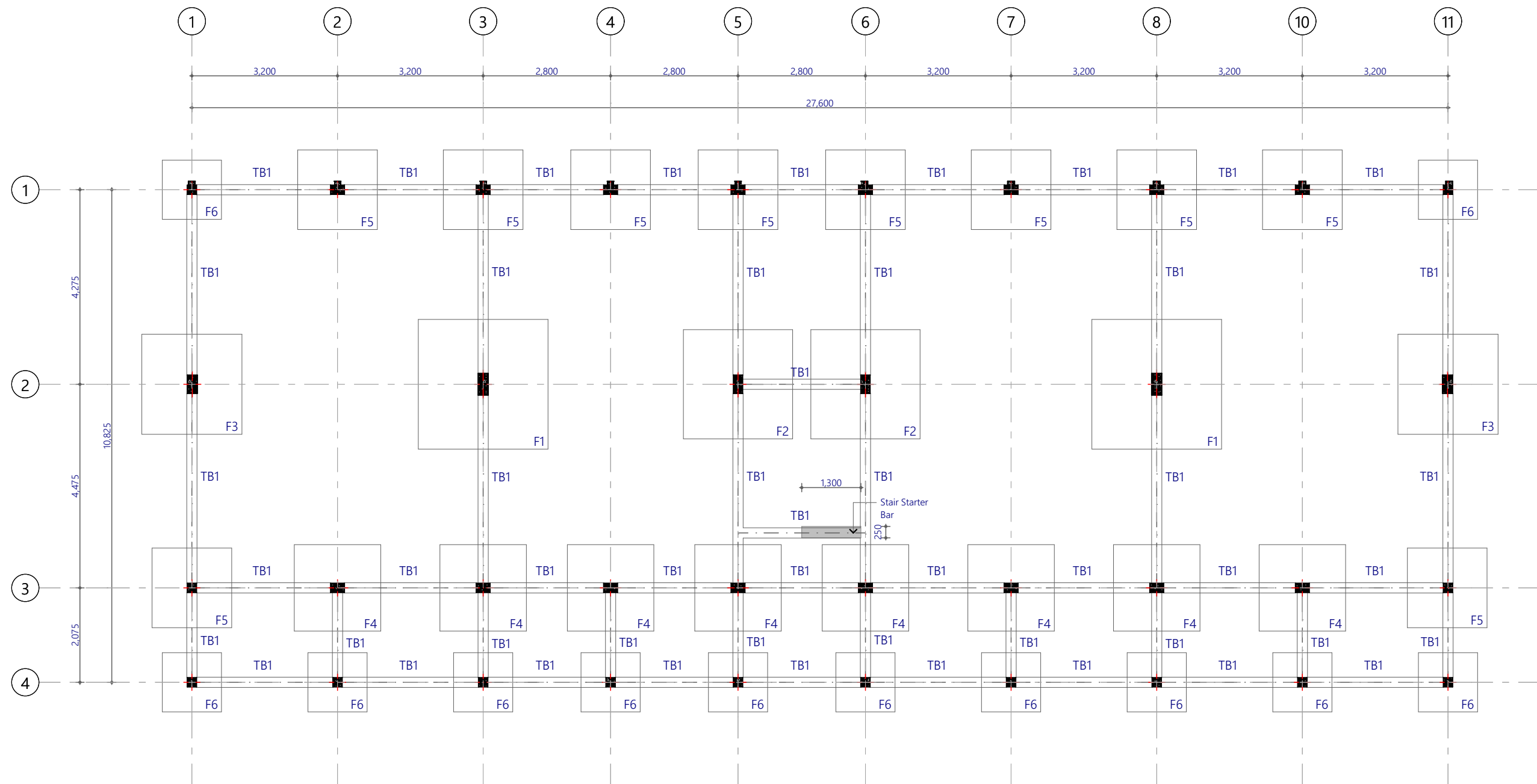
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Column Setting out Plan

1:100



Foundation Notes:

	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

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)

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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

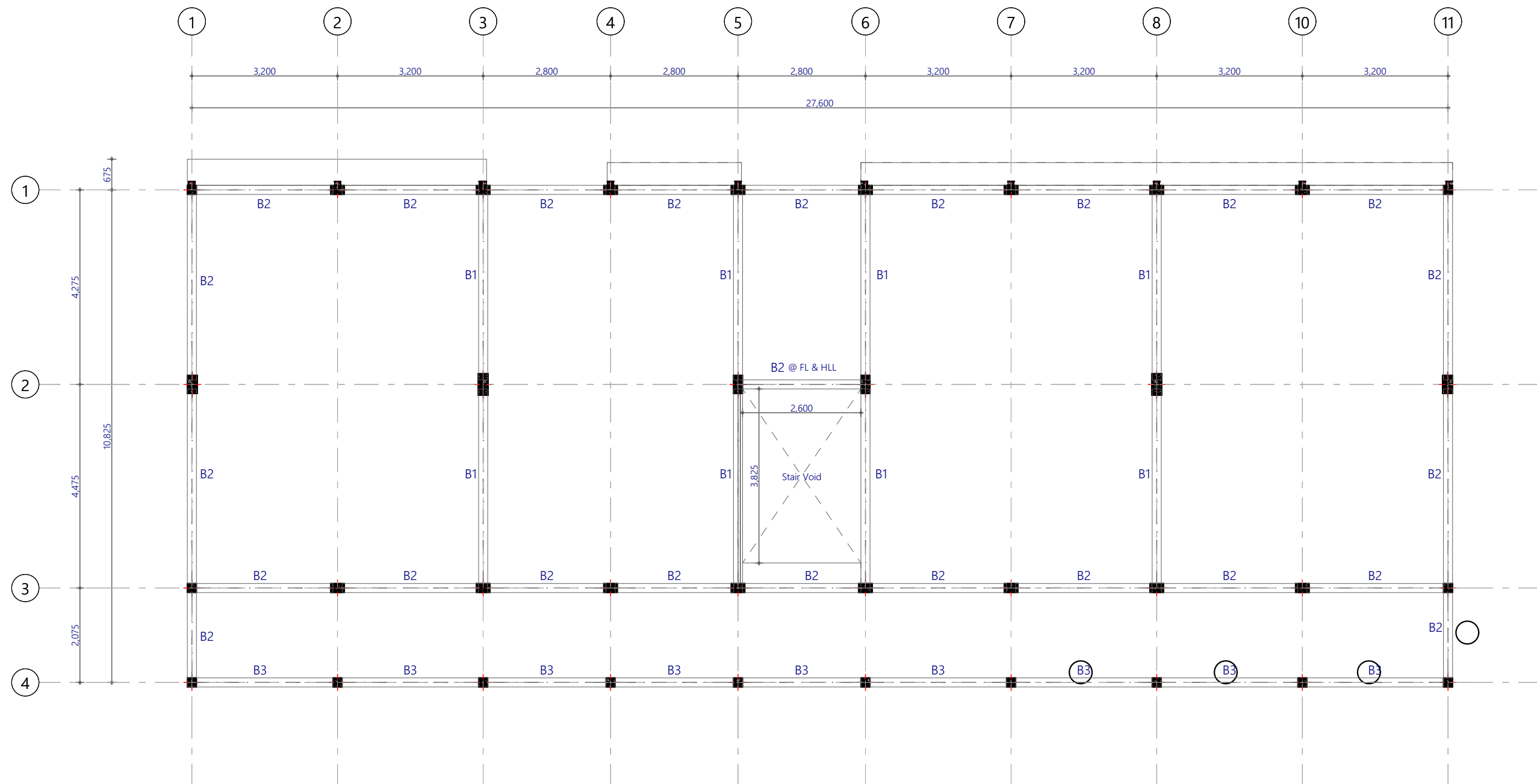


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Page: **B.01.2**

Foundation Plan

1:100



PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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

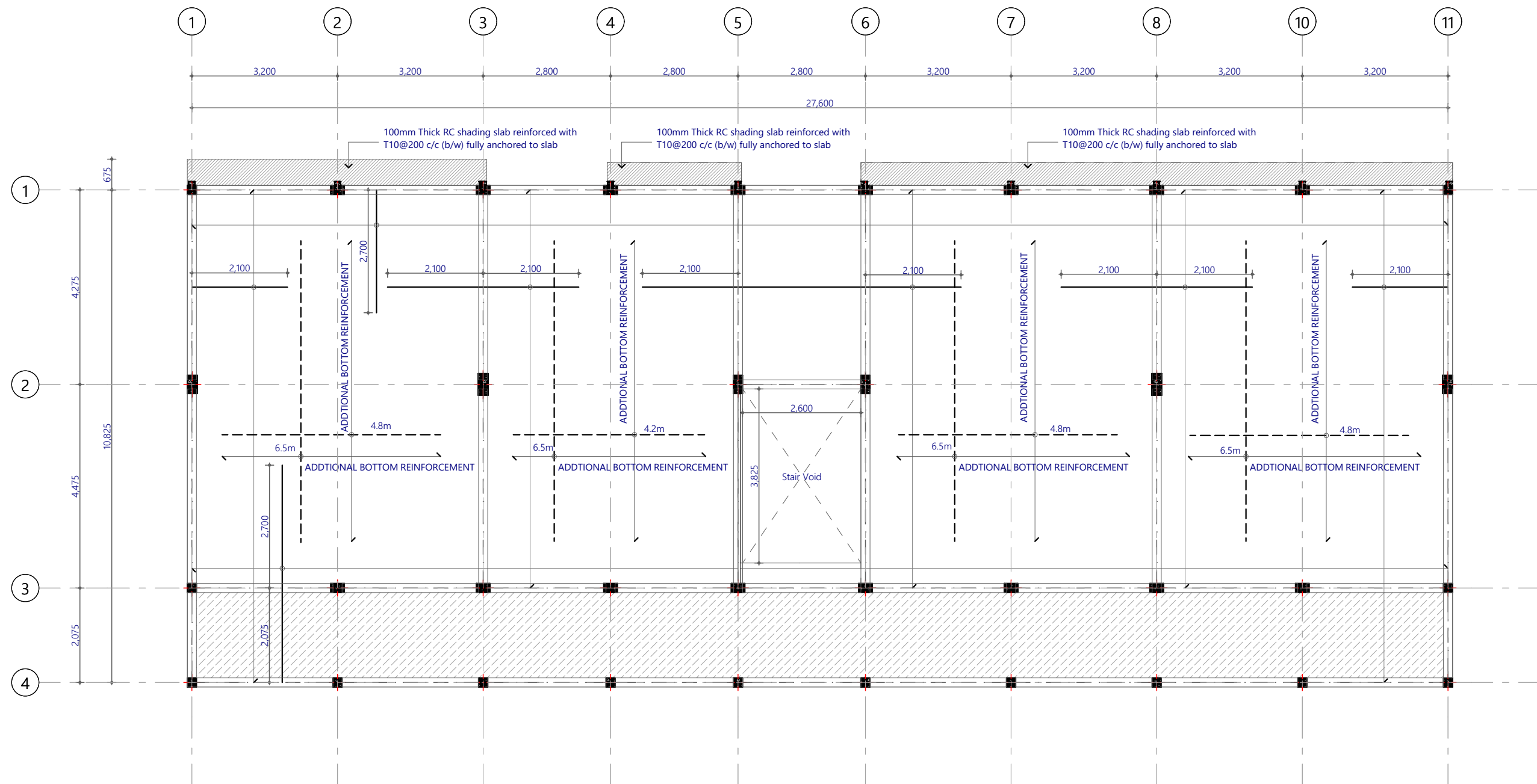


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First to Third Floor Beam Plan

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)

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo **4 Storey Building** **with 12 classroom**

Client:
 Ministry of Education,
 Maldives

16/09/2020

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

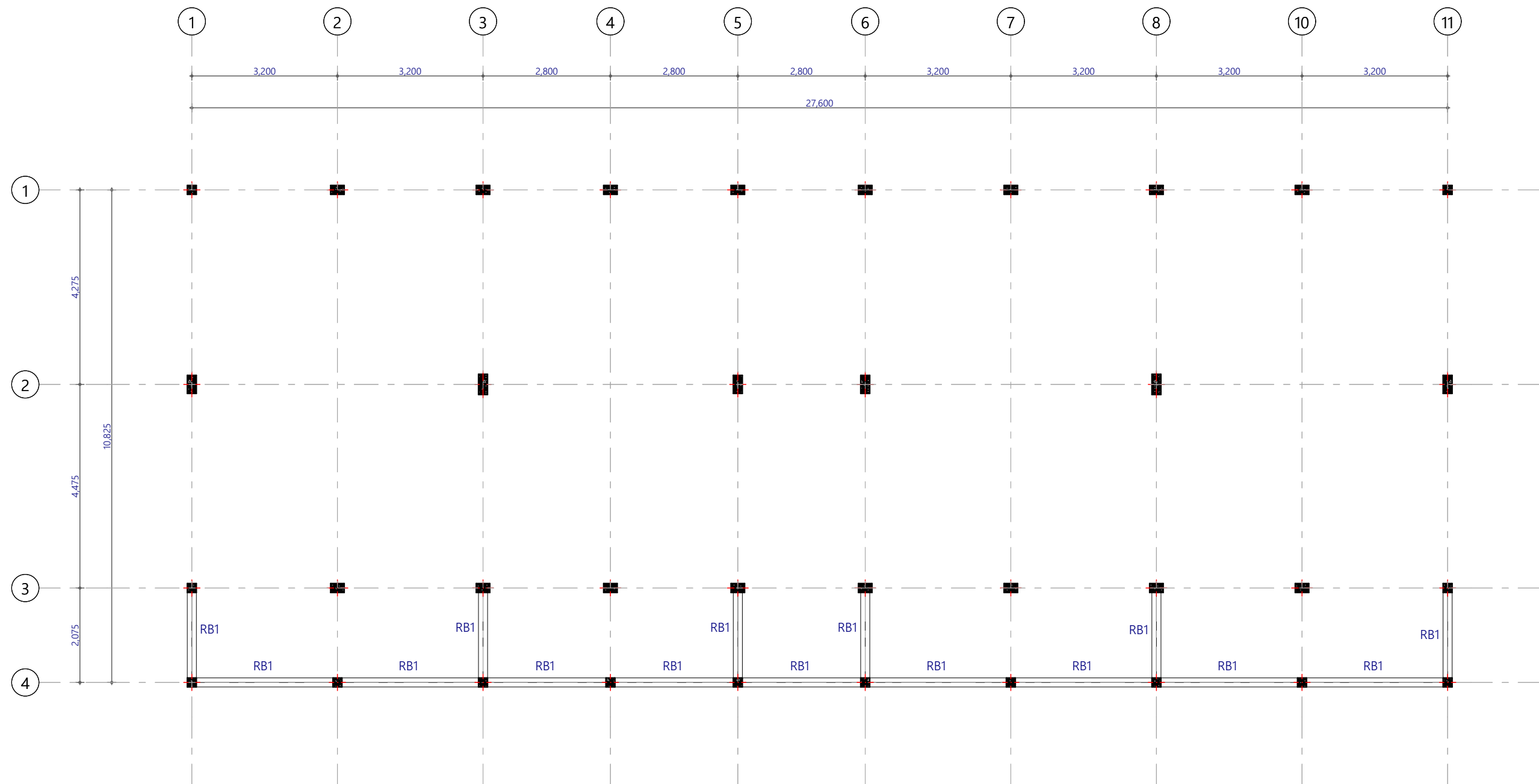


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First to Third Floor Slab Reinforcement **Plan**

1:100




PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

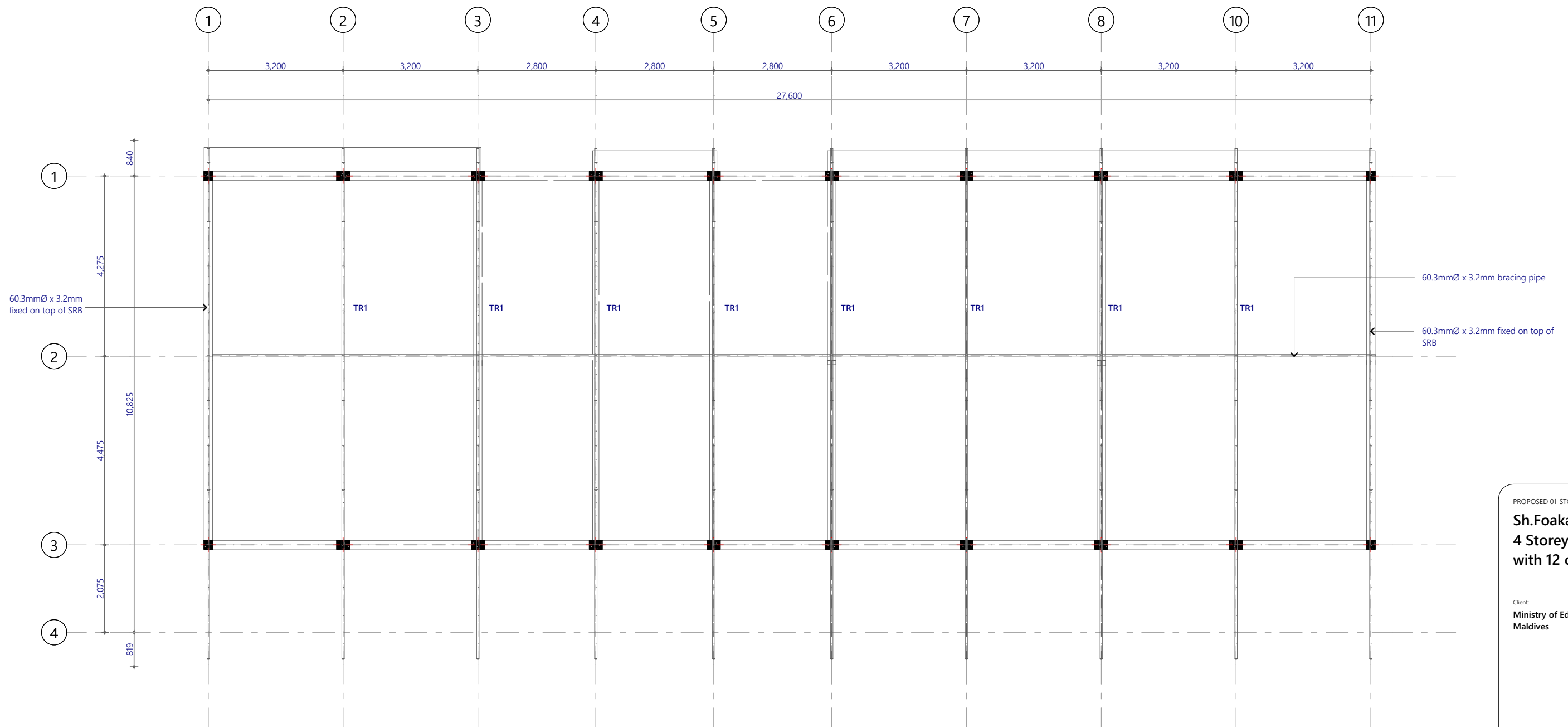
Architect: Fathmath Ihudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir

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B.02.3



PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo 4 Storey Building with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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

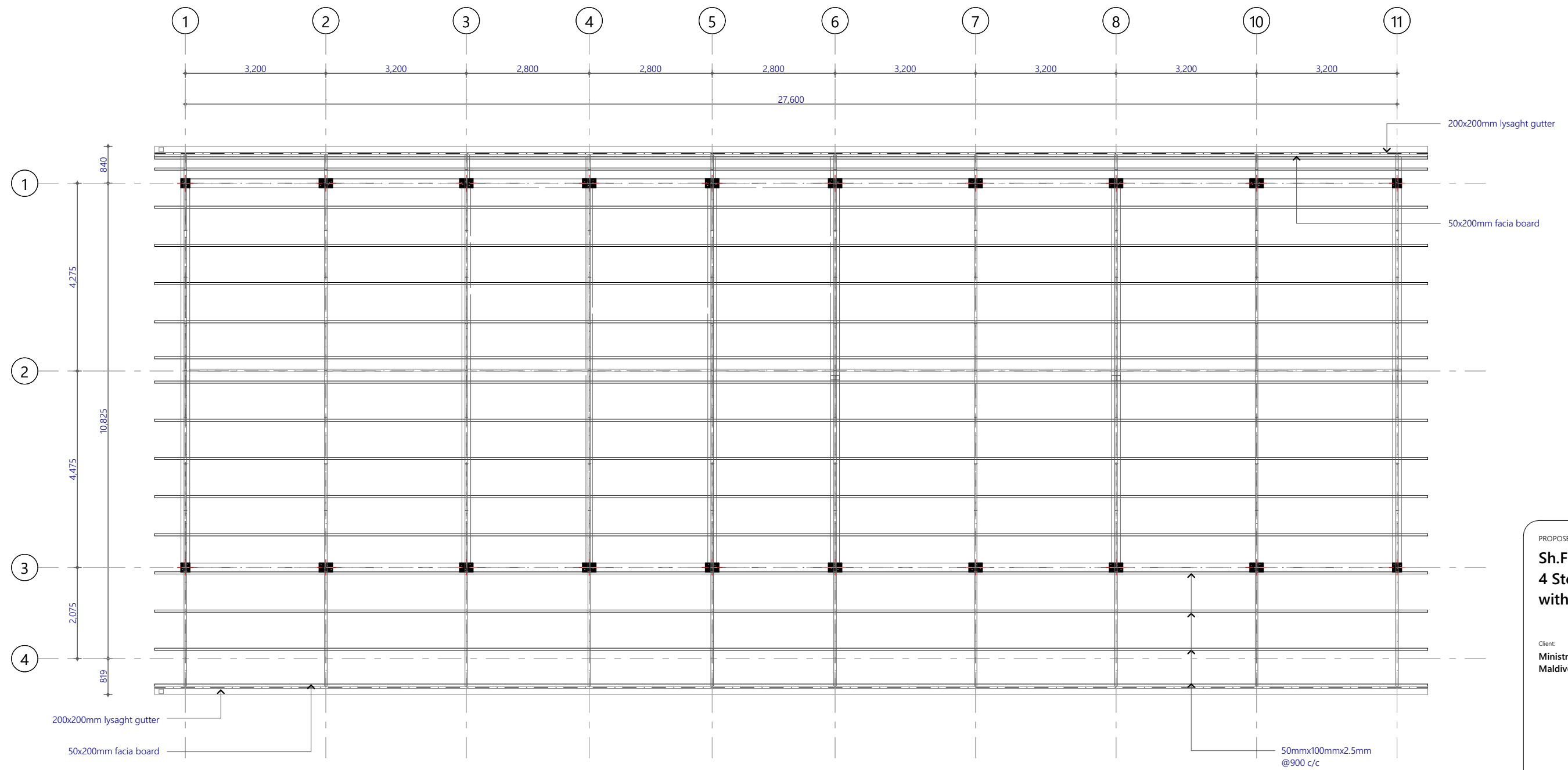


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B.02.5

Roof Truss Plan

1:100



PROPOSED 01 STOREY BUILDING AT
Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020
Architect: Fathmath Ihudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir

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Roof Framing Plan
1:100

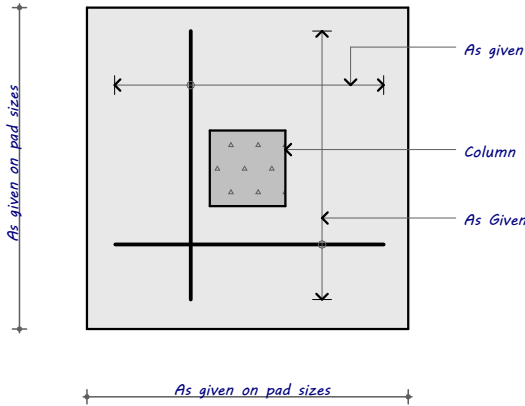
Foundation Notes:

	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

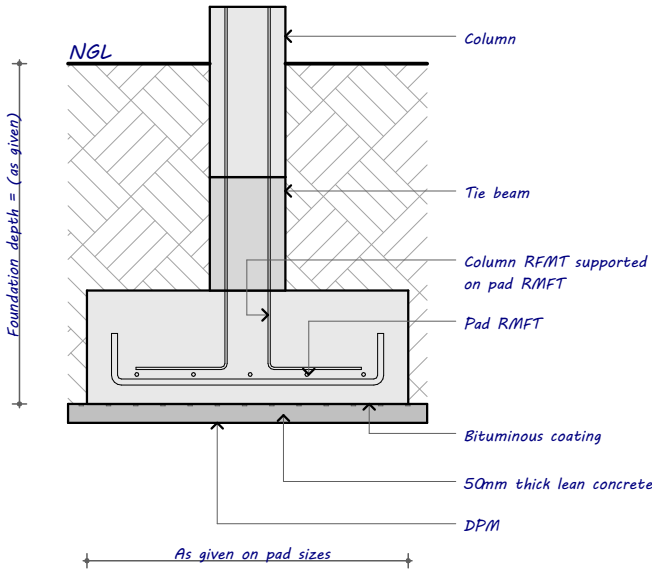
Ground Slab = 100mm thick RC slab on fill reinforced with T10@200C/C (B/W)

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

Foundation Notes
1:100

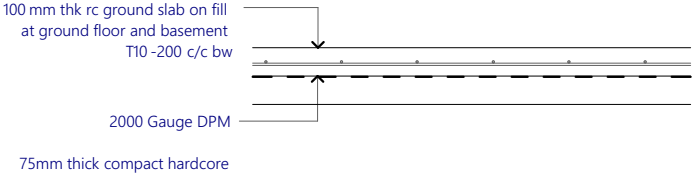


Plan View



Sectional View

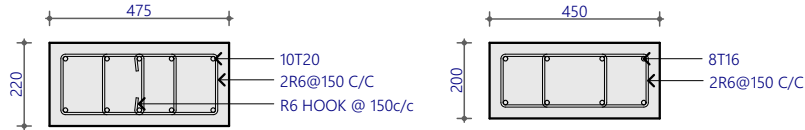
Typical Pad Footing Detail
1:20



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 1 m spacing or 1 no. per 1 sqm

Ground Slab Detail
1:20



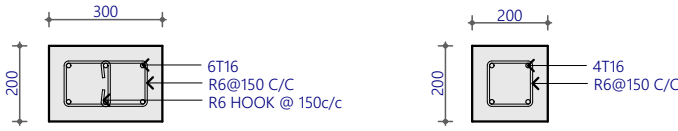
Ground & 1st Floor

2nd & Above Floors



Ground & 1st Floor

2nd & Above Floors

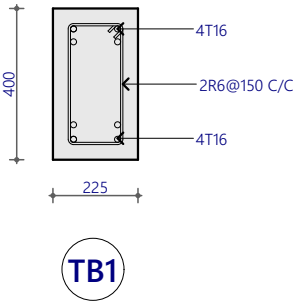


C3

C4

Column Details
1:20

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)



TB1

Tie Beam Details
1:20

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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

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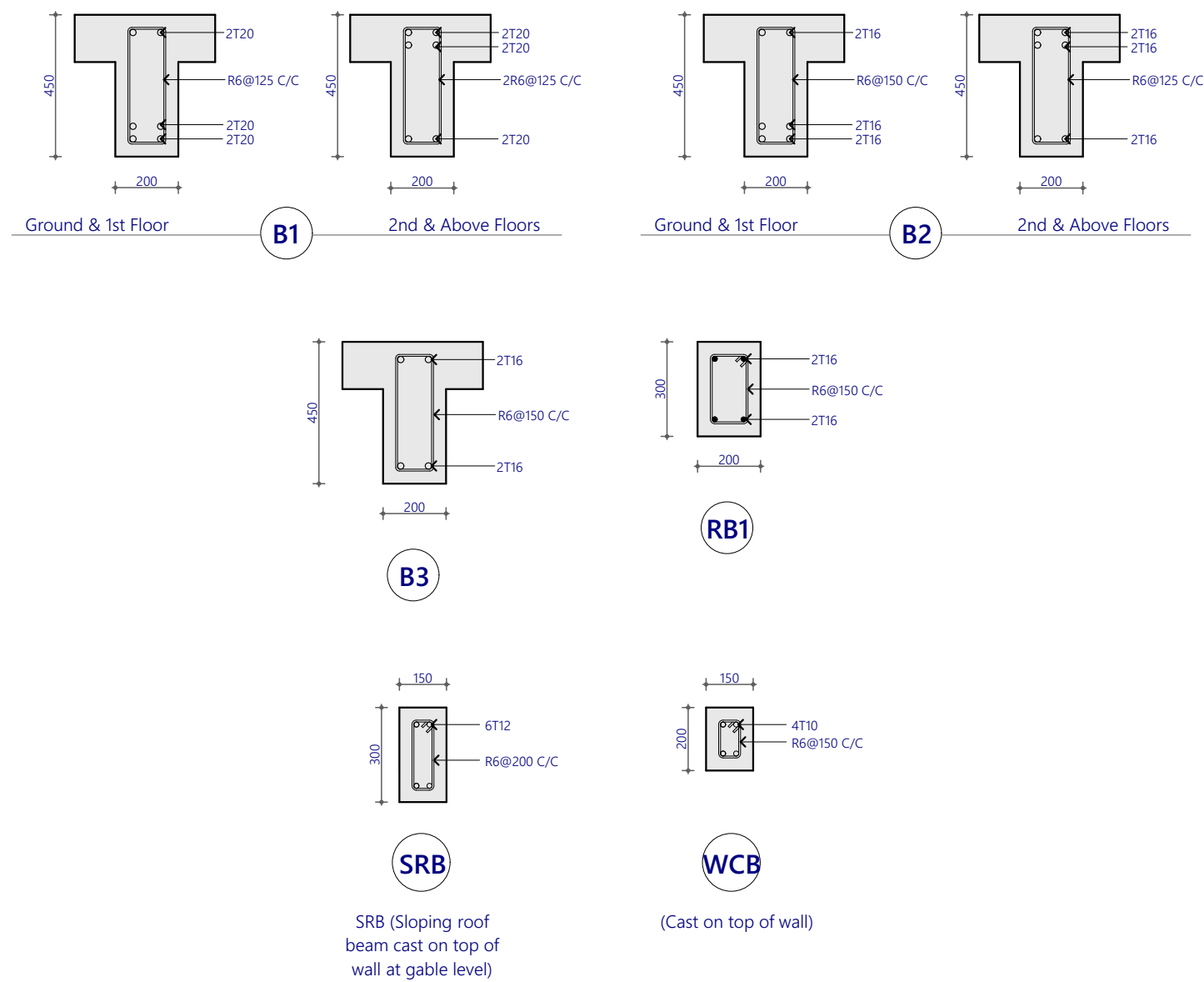
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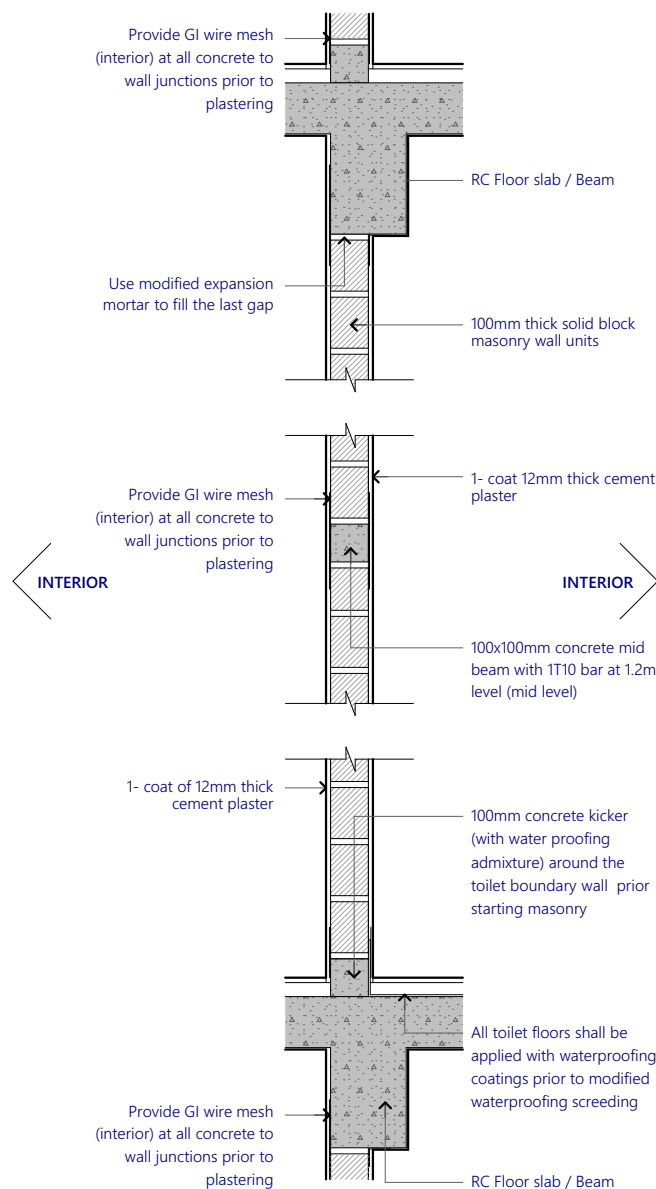
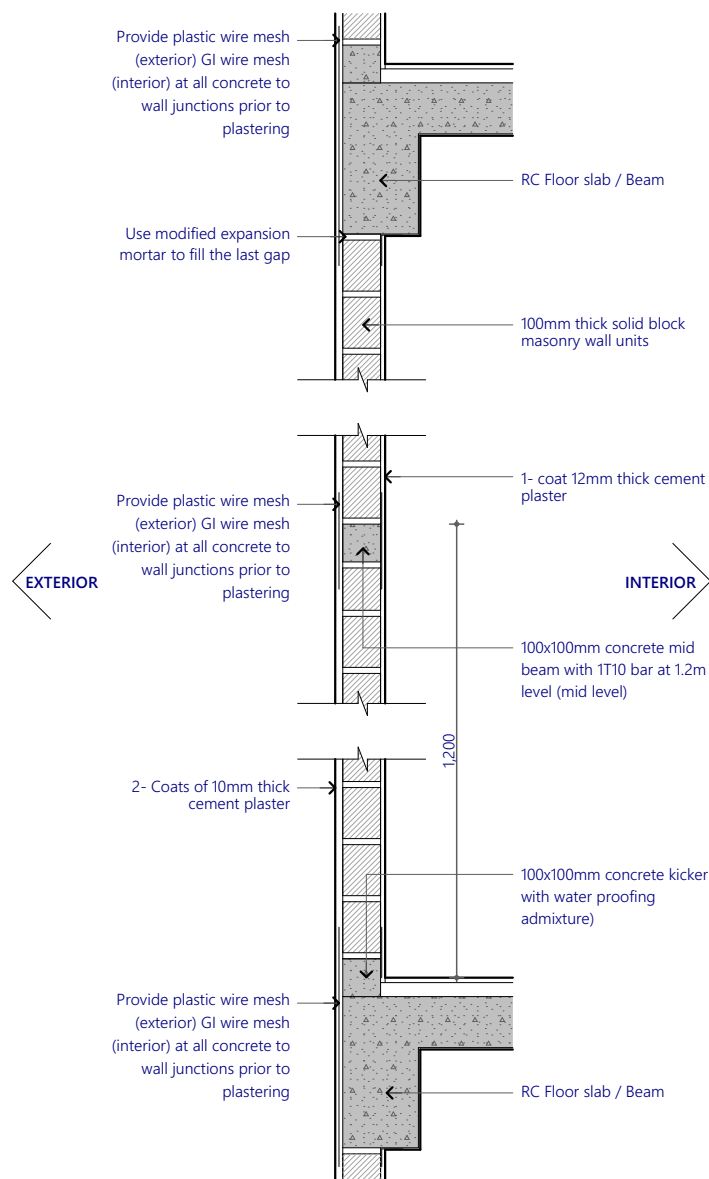
C.01.1

Structural Details 1

1:20, 1:100



Beam Details 1:20



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.

Sh. Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

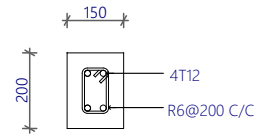
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Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir



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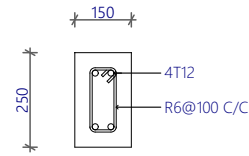
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Typical Wall Construction Detail



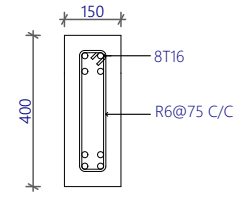
LT1

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

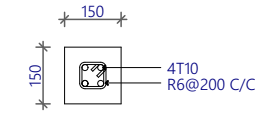


LT3

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

Lintel Beam Detail

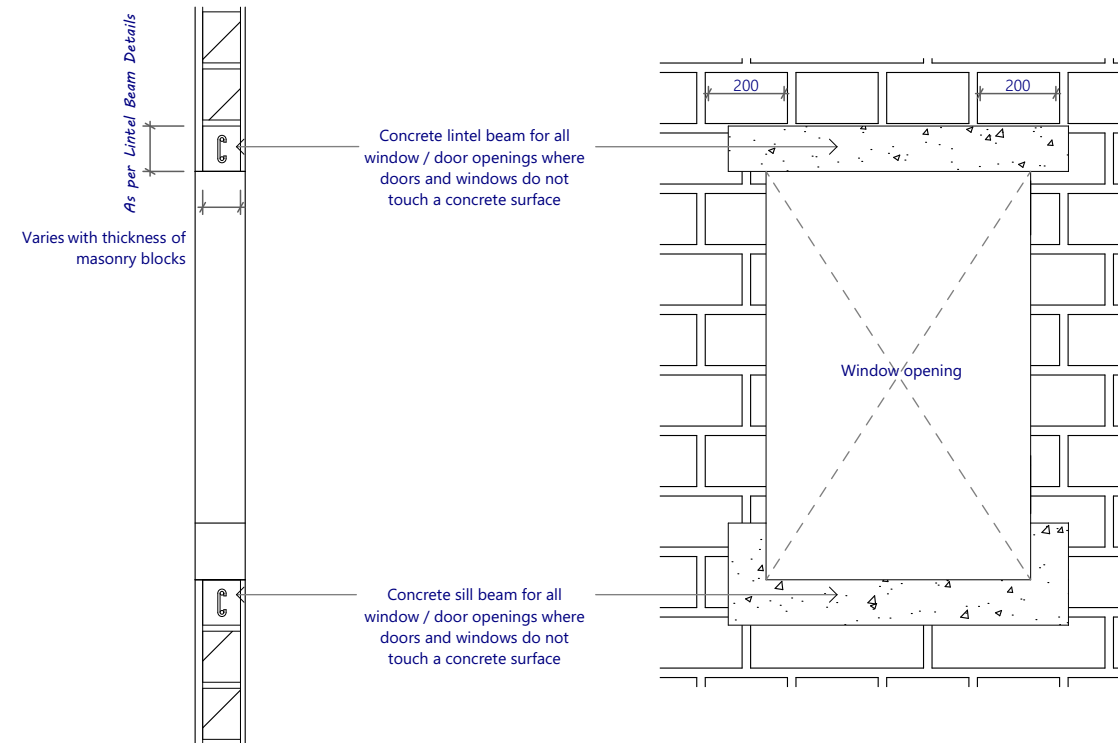
1:20



LB1

Sill Beam Detail

1:20



Typical Window Construction Detail

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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

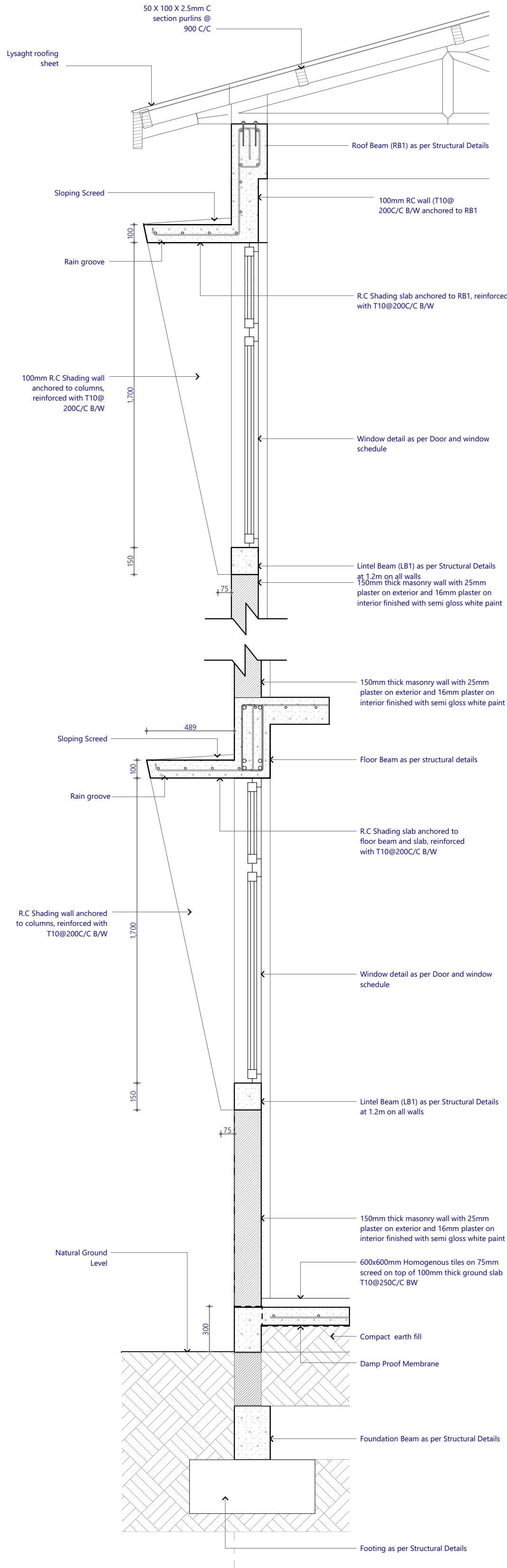
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Window Construction Detail

1:20



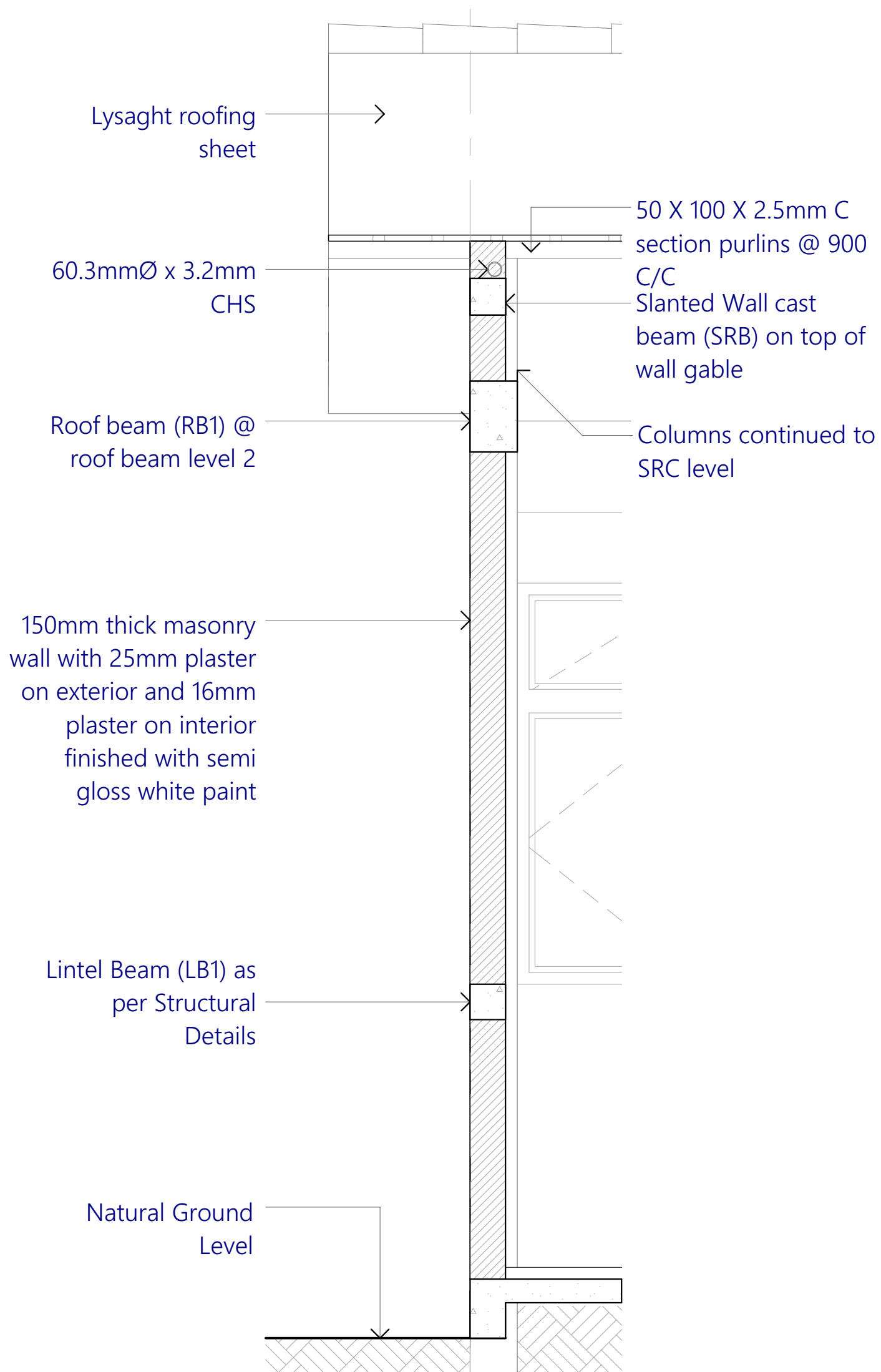
PROPOSED 01 STOREY BUILDING AT
Sh.Foakaidhoo
4 Storey Building
with 12 classroom

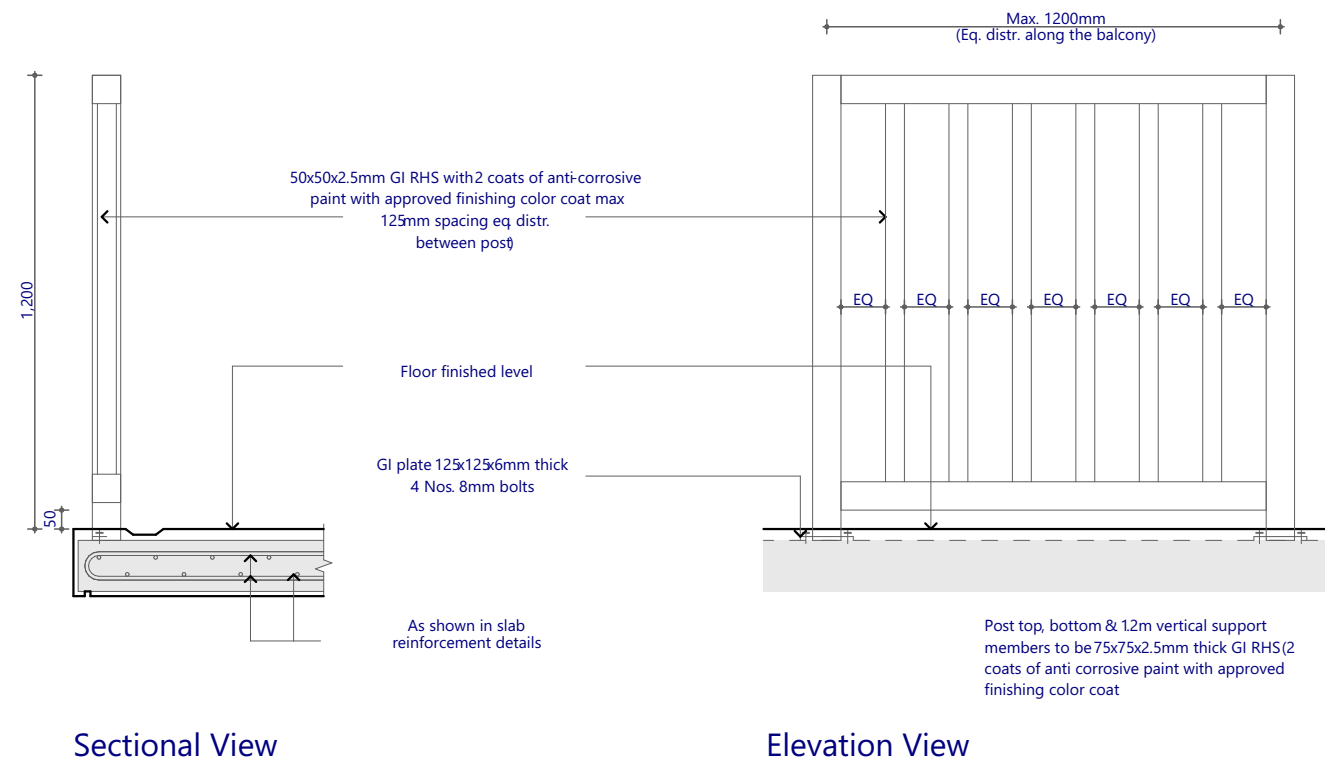
Client:
Ministry of Education,
Maldives

16/09/2020
 Architect: Fathmath Ibadha Amir
 Engineer: Ihsaan Waheed
 Drawn By: Fathmath Ibadha Amir

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PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

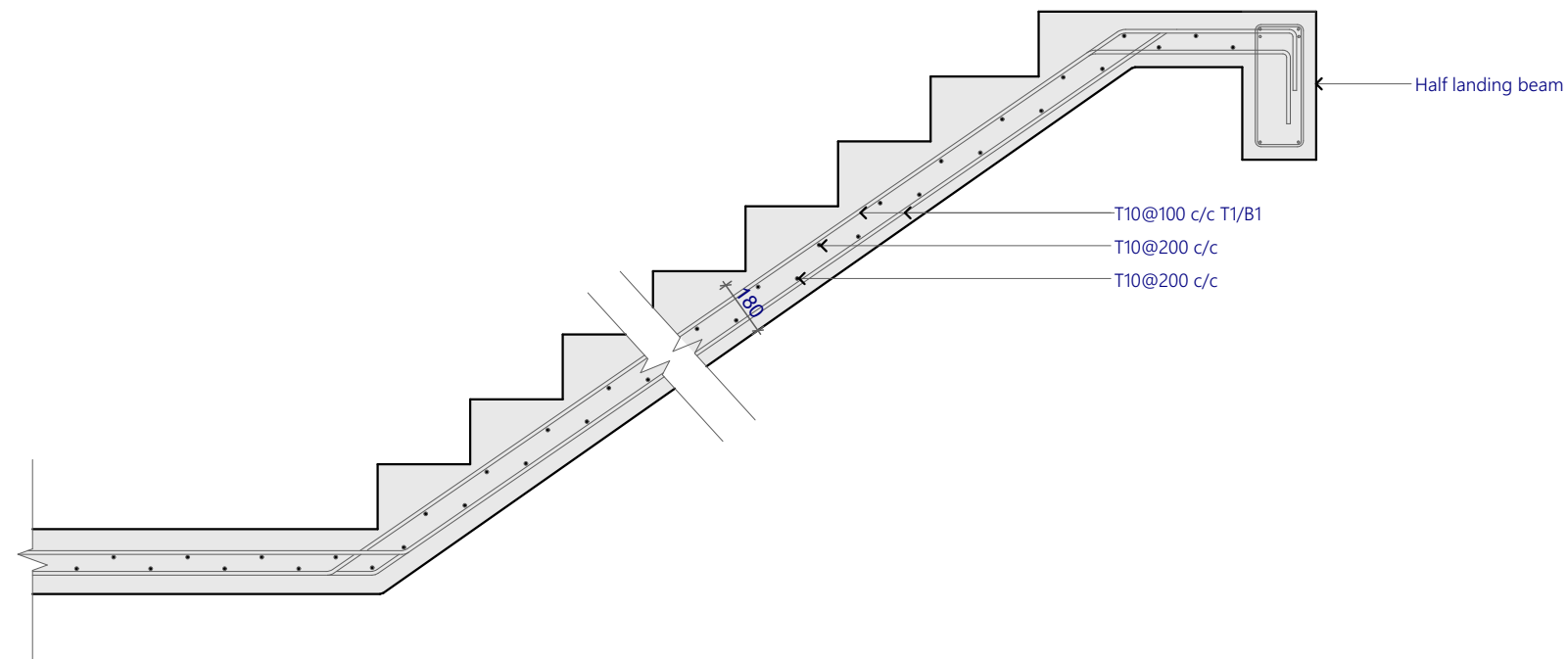
16/09/2020

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

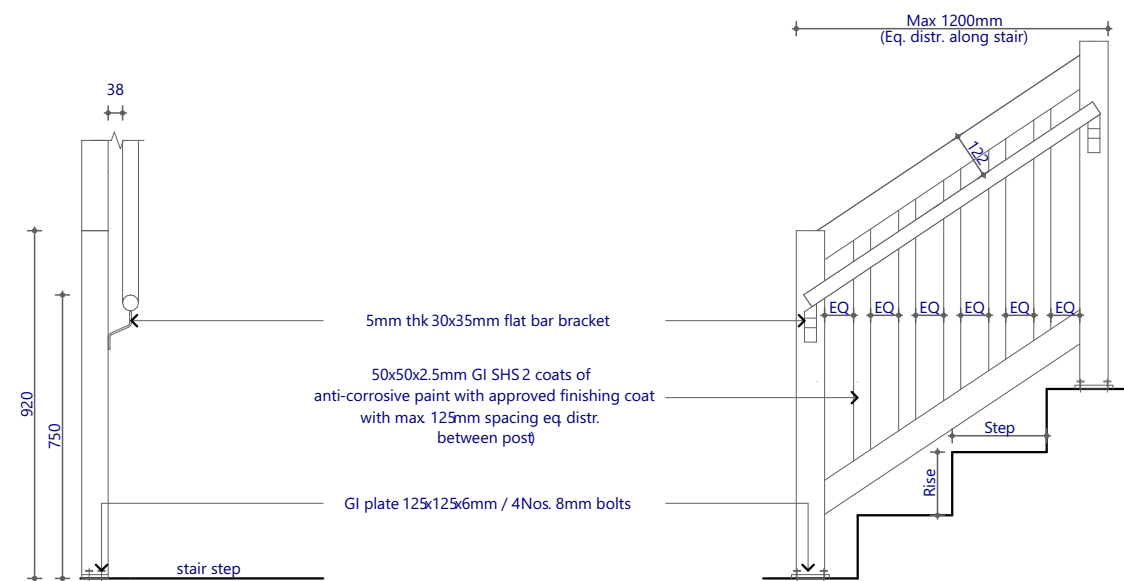
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Stair Reinforcement Detail
1:20



1. Post top, bottom & 1.2m 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: 250mm
4. Raise: 145mm

Stair Railing Detail
1:20

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

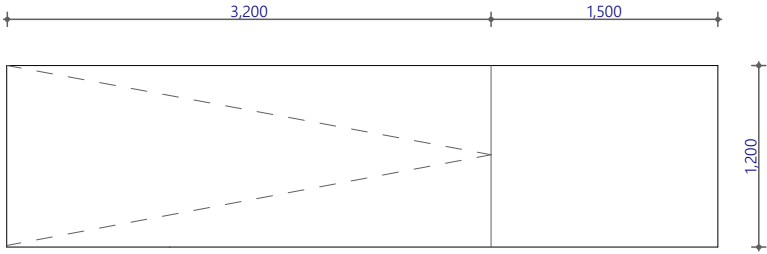
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Architect: Fathmath Ihudha Amir
Engineer: Ihsaan Waheed
Drawn By: Fathmath Ihudha Amir

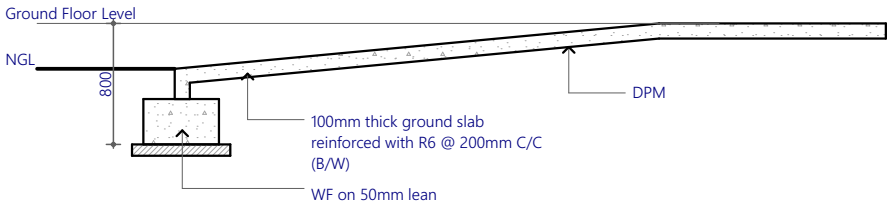
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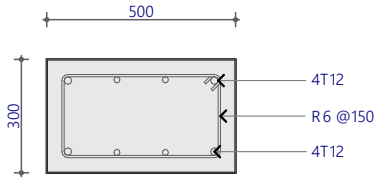
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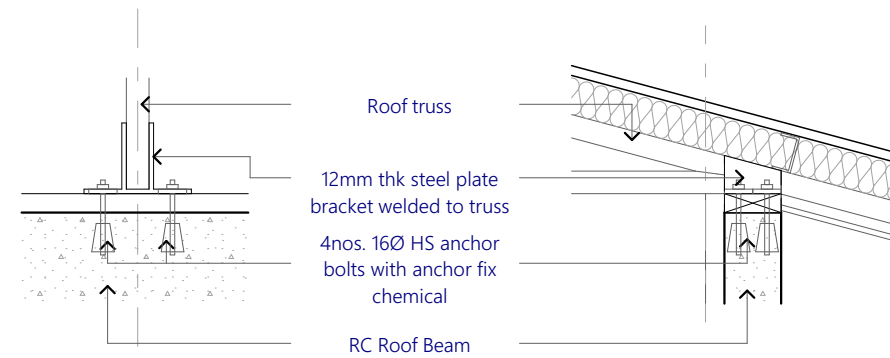
Ground Floor Ramp Plan View



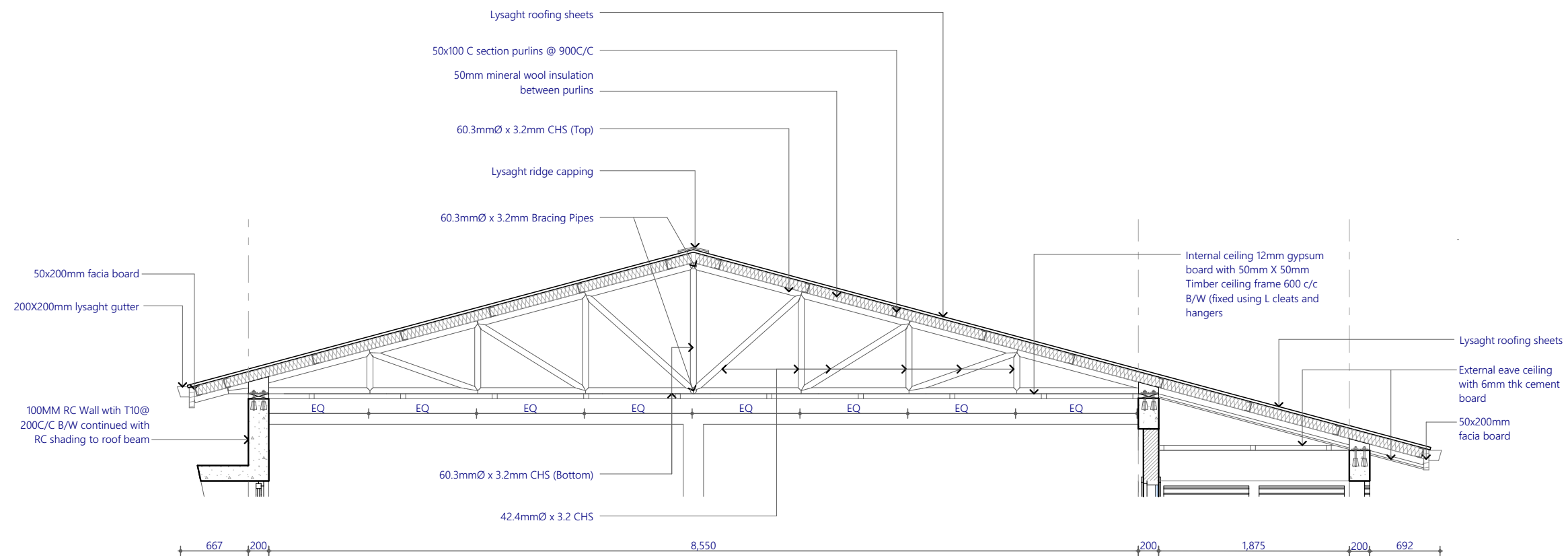
Ground Floor Ramp Elevation View



Wall Footing (WF) Detail
Scale = 1:20



Truss fixing detail



PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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

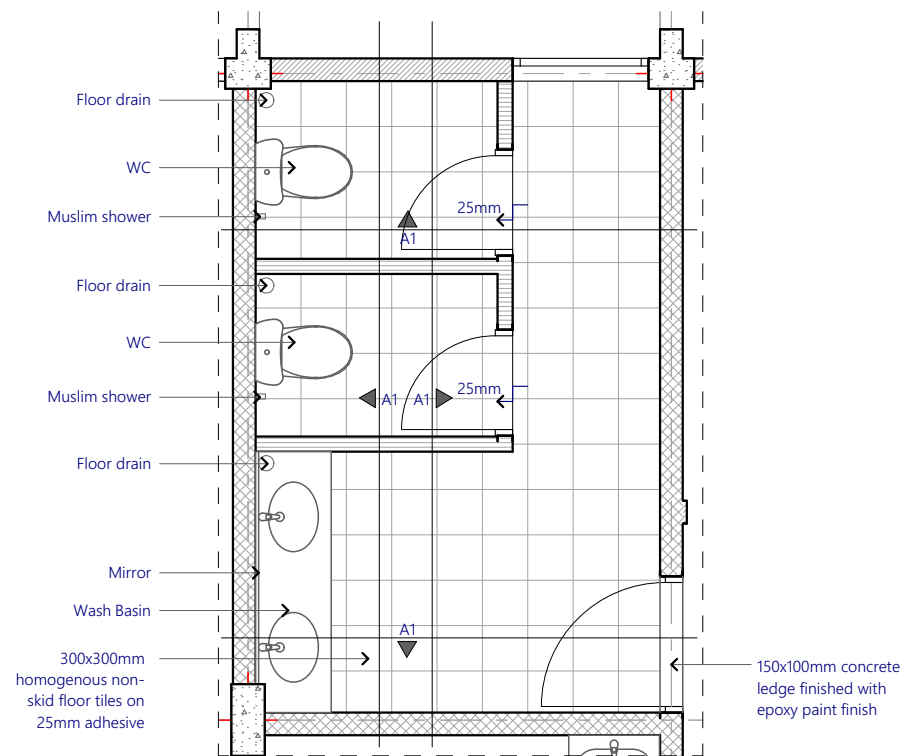
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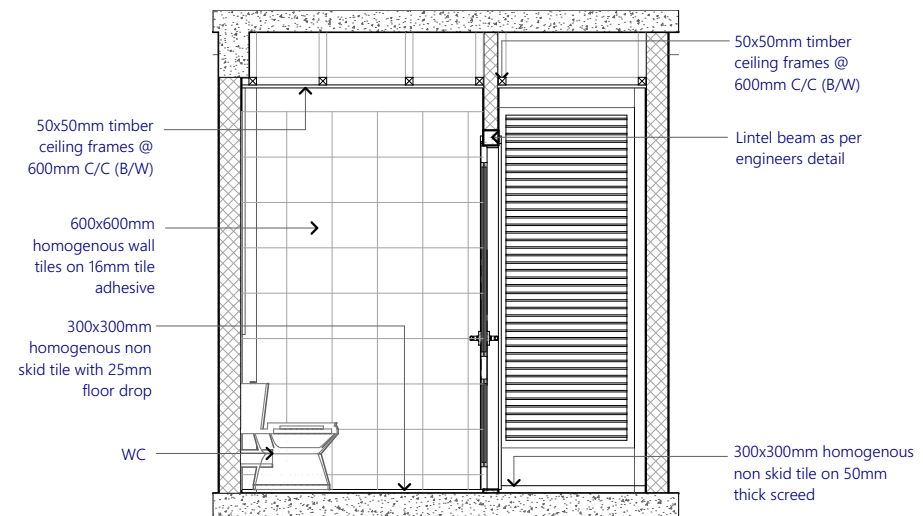
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Truss Detail

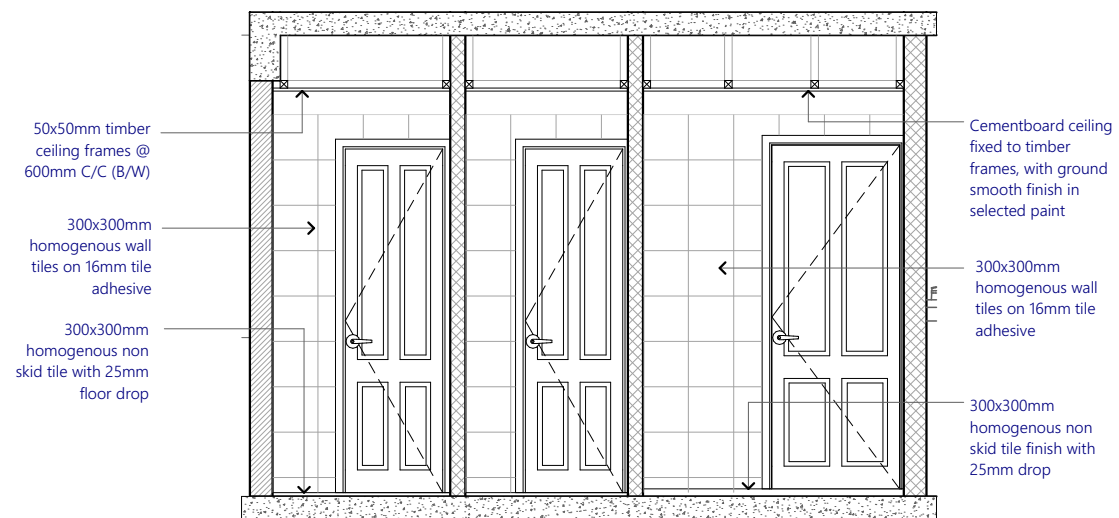
1:50, 1:20



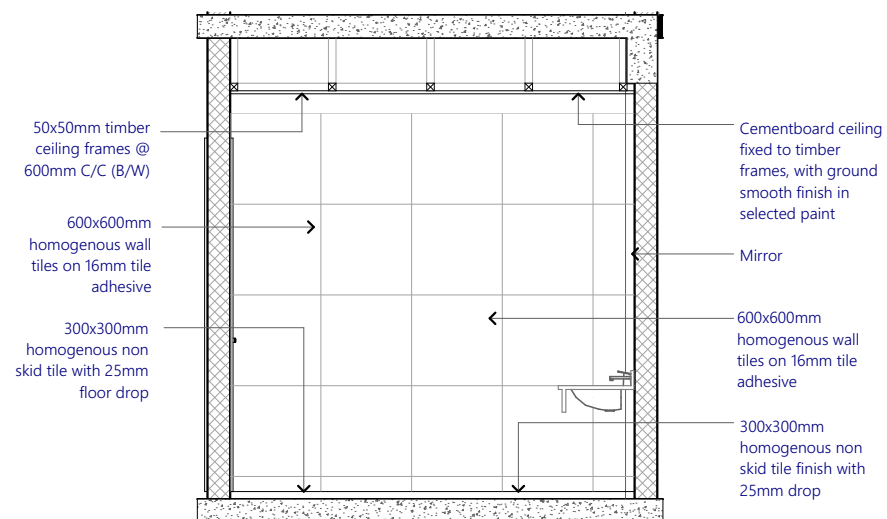
Toilet Plan (Male and Female)
1:50



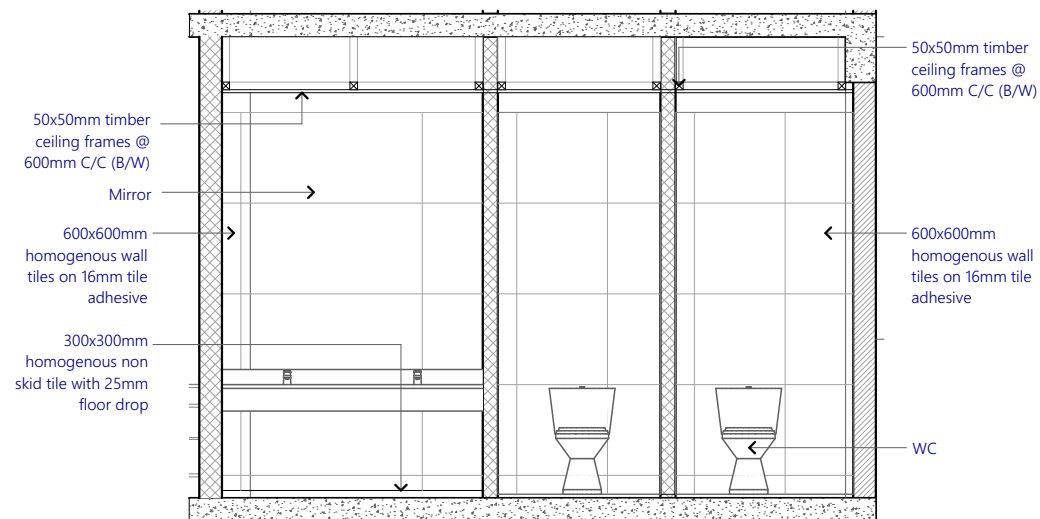
A1
1:50



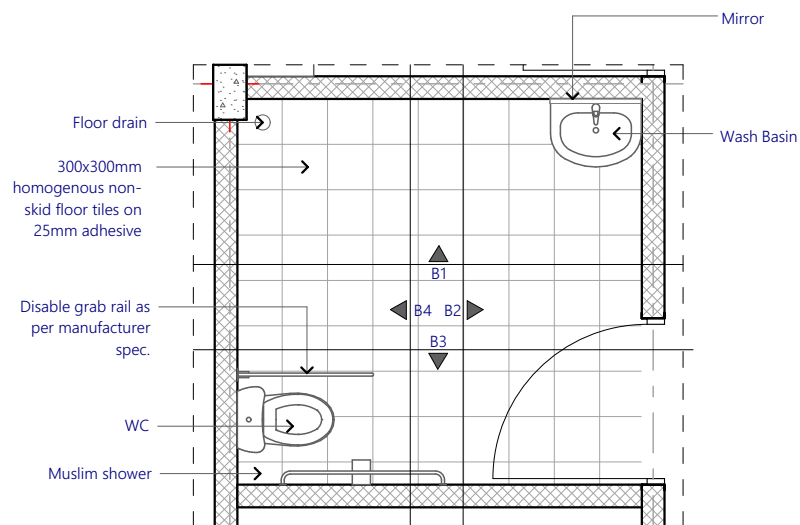
A2
1:50



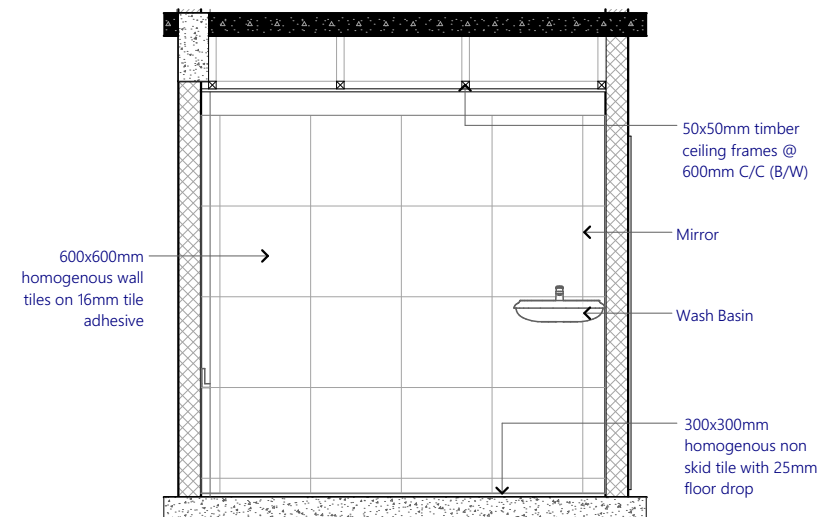
A3
1:50



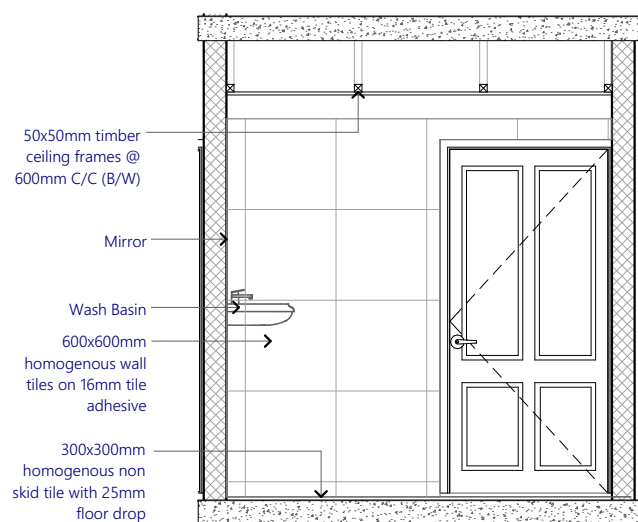
A4
1:50



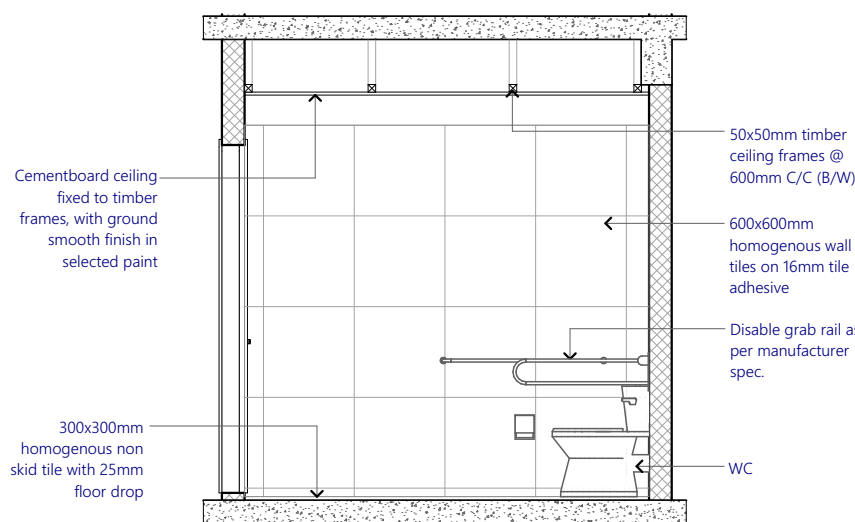
Disable Toilet Floor Plan
1:50



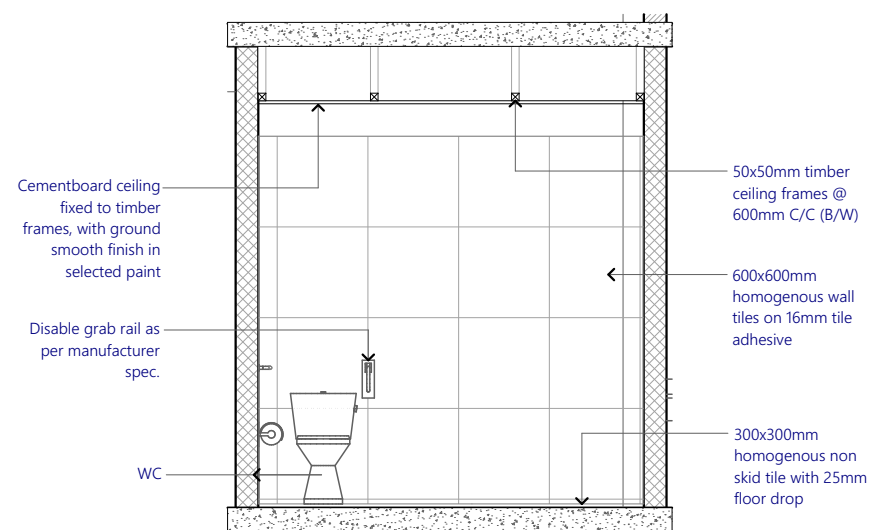
Elevation B1
1:50



Elevation B2
1:50



Elevation B3
1:50



Elevation B4
1:50

PROPOSED 01 STOREY BUILDING AT

Sh.Foakaidhoo
4 Storey Building
with 12 classroom

Client:
Ministry of Education,
Maldives

16/09/2020

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



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Rev: ---

Page: C.01.12

Toilet Details 2

1:50