

ARCHITECTURAL & STRUCTURAL DRAWINGS OF

PROPOSED 02 STOREY BUILDING

**MULTI-PURPOSE HALL, SH FOAKAIDHOO**

For Ministry of Education

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PROPOSED 00 STOREY BUILDING AT

#Building Name

Client:

Ministry of Education, Maldives

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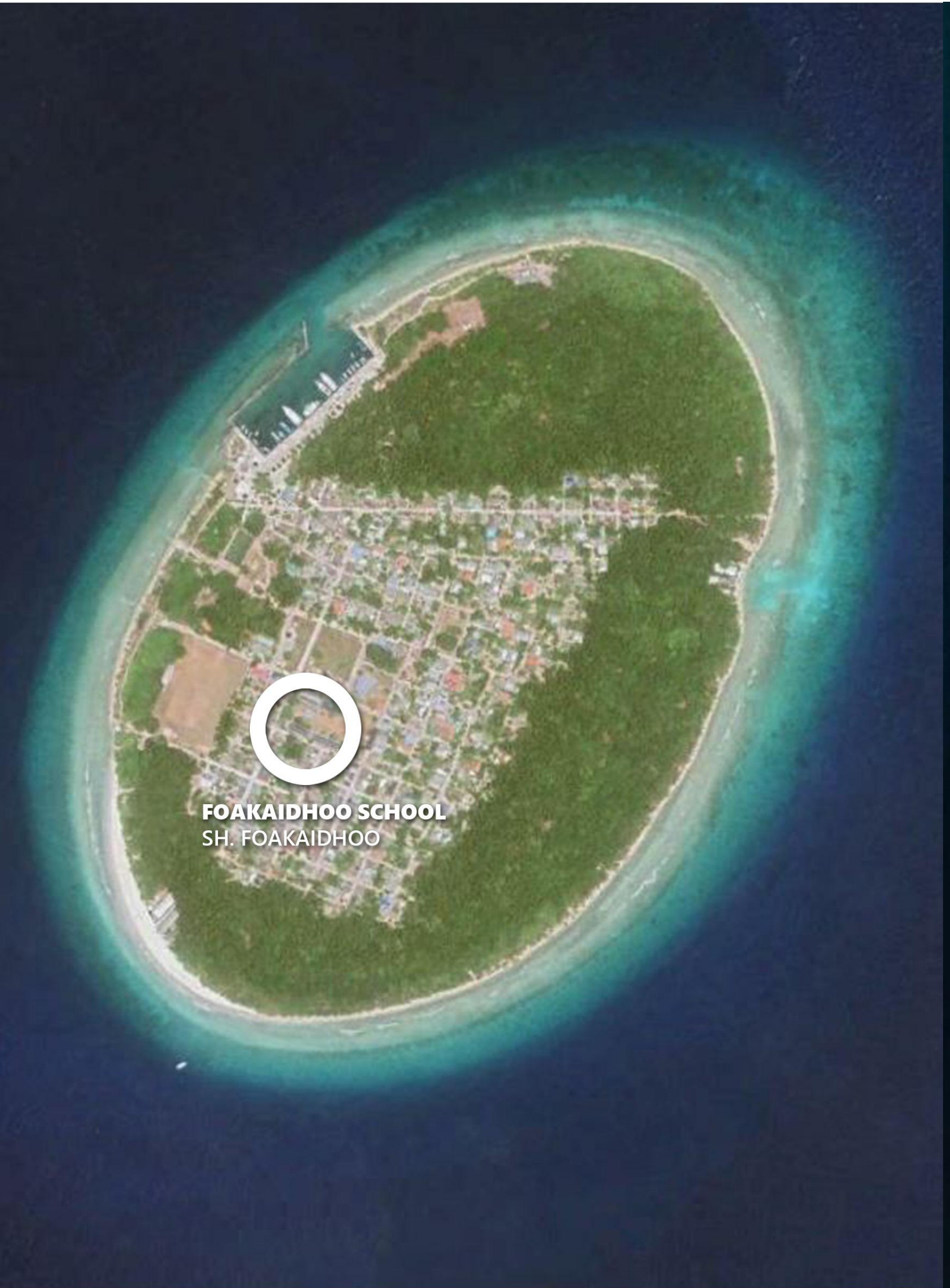
Architect: Fathmath Ihudha Amir  
Engineer: Adam Madheeh  
Drawn By: Fathmath Ihudha Amir



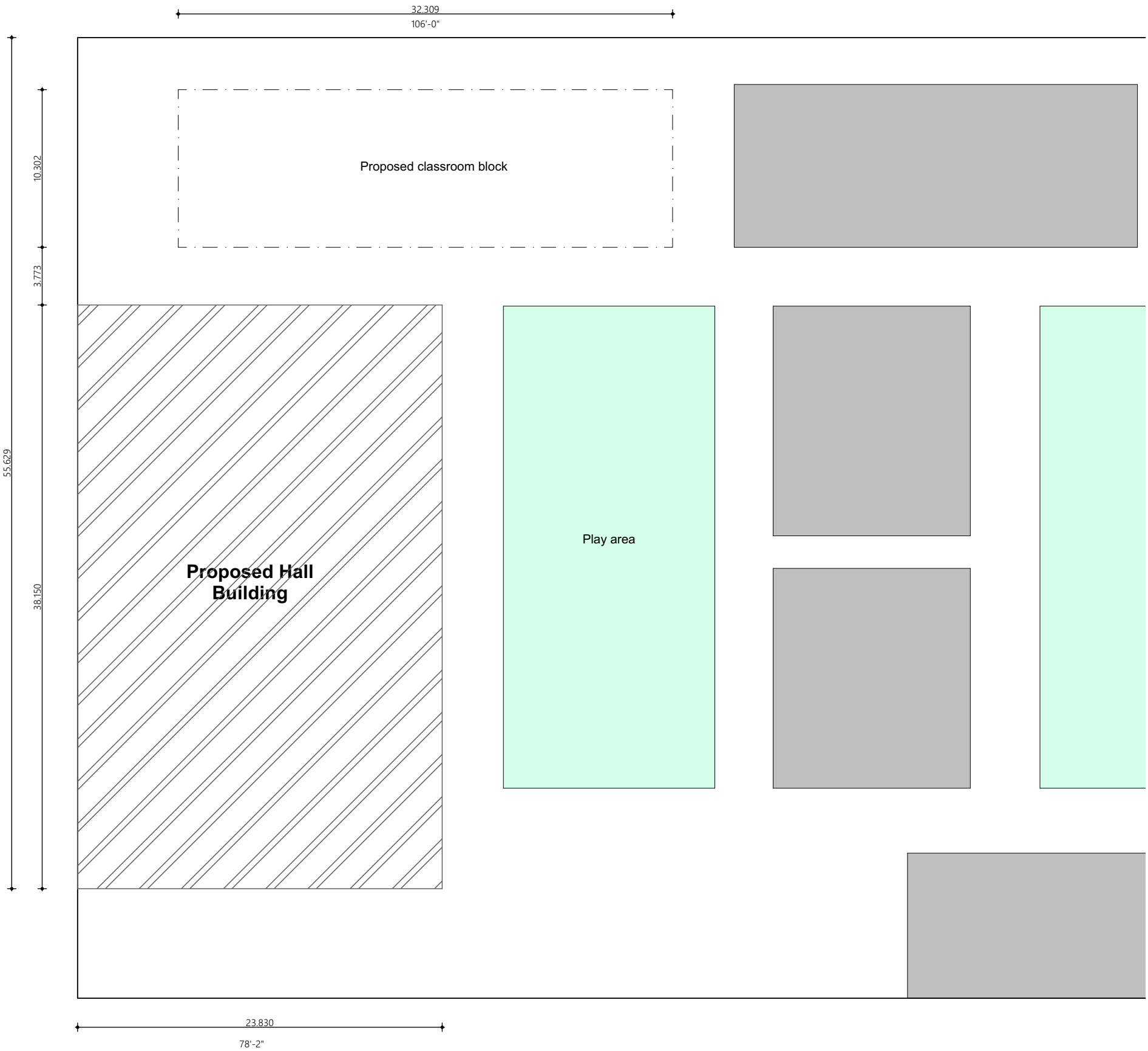
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Location Plan  
1:500



Site Plan (source: google earth)  
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PROPOSED 02 STOREY BUILDING AT  
**Multipurpose Hall, Sh Foakaidhoo**

Client:  
Ministry of Education, Maldives

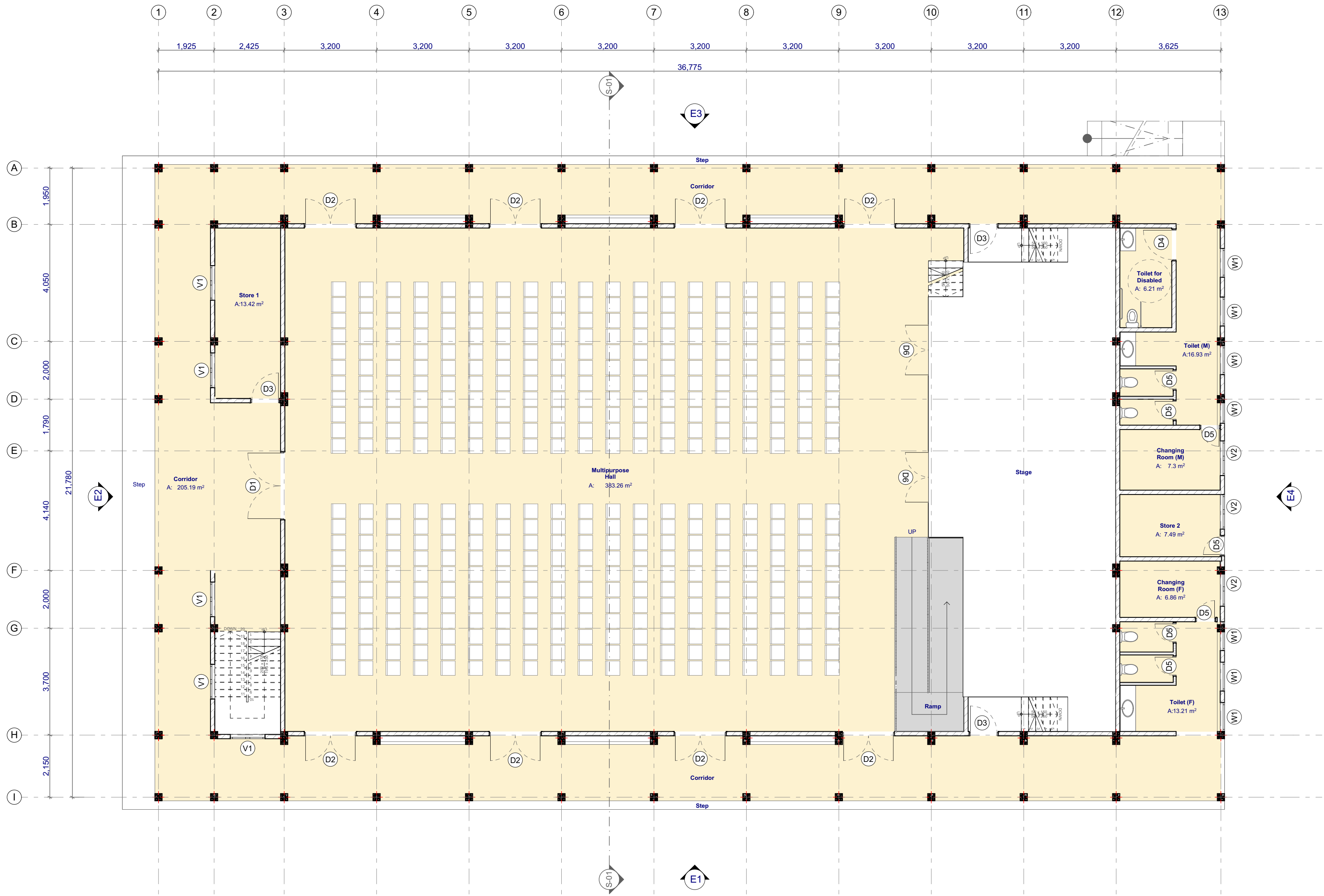
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Engineer: Adam Madheeh  
Drawn By: Fathmath Ithudha Amir

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FINISHES							
Home Story	Zone Name	Calculated Area	Floor Finishes	Floor Level	Ceiling Finishes	Ceiling Level	Wall Finishes
Ground Floor Level	---	---	---	---	---	---	---
Ground Floor Level	---	---	---	---	---	---	---
Ground Floor Level	Changing Room (F)	6.86	300 X 300mm Homogenous non-slip tiles over 50mm screeding	300mm	Cement Board ceiling		16mm plaster, applied with ground smooth finished with selected paint
Ground Floor Level	Changing Room (M)	7.30	300 X 300mm Homogenous non-slip tiles over 50mm screeding	300mm	Cement Board ceiling		16mm plaster, applied with ground smooth finished with selected paint
Ground Floor Level	Corridor	205.19	Self Levelling cement floor screed with bituminous waterproofing agent	300mm	Exposed slab soffit to be finished with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
Ground Floor Level	Multipurpose Hall	383.26	Self Levelling cement floor screed with epoxy floor paint	300mm	Suspended acoustic ceiling system with aluminium framing	7300mm	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor Level	Store 1	13.42	600mm X 600mm Homogenous non-slip tiles over 50mm screeding	300mm	Exposed slab soffit to be finished with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
Ground Floor Level	Store 2	7.49	300 X 300mm Homogenous non-slip tiles over 50mm screeding	300mm	Cement Board ceiling		16mm plaster, applied with ground smooth finished with selected paint
Ground Floor Level	Toilet (F)	13.21	300 X 300mm Homogenous non-slip tiles over 50mm screeding	300mm	Cement Board ceiling		300mm X 300mm Homogenous wall tiles
Ground Floor Level	Toilet (M)	16.93	300 X 300mm Homogenous non-slip tiles over 50mm screeding	300mm	Cement Board ceiling		300mm X 300mm Homogenous wall tiles
Ground Floor Level	Toilet for Disabled	6.21	300 X 300mm Homogenous non-slip tiles over 50mm screeding	300mm	Cement Board ceiling		300mm X 300mm Homogenous wall tiles

Ground Floor Plan

1:100, 1:1

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Multipurpose Hall,  
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Maldives

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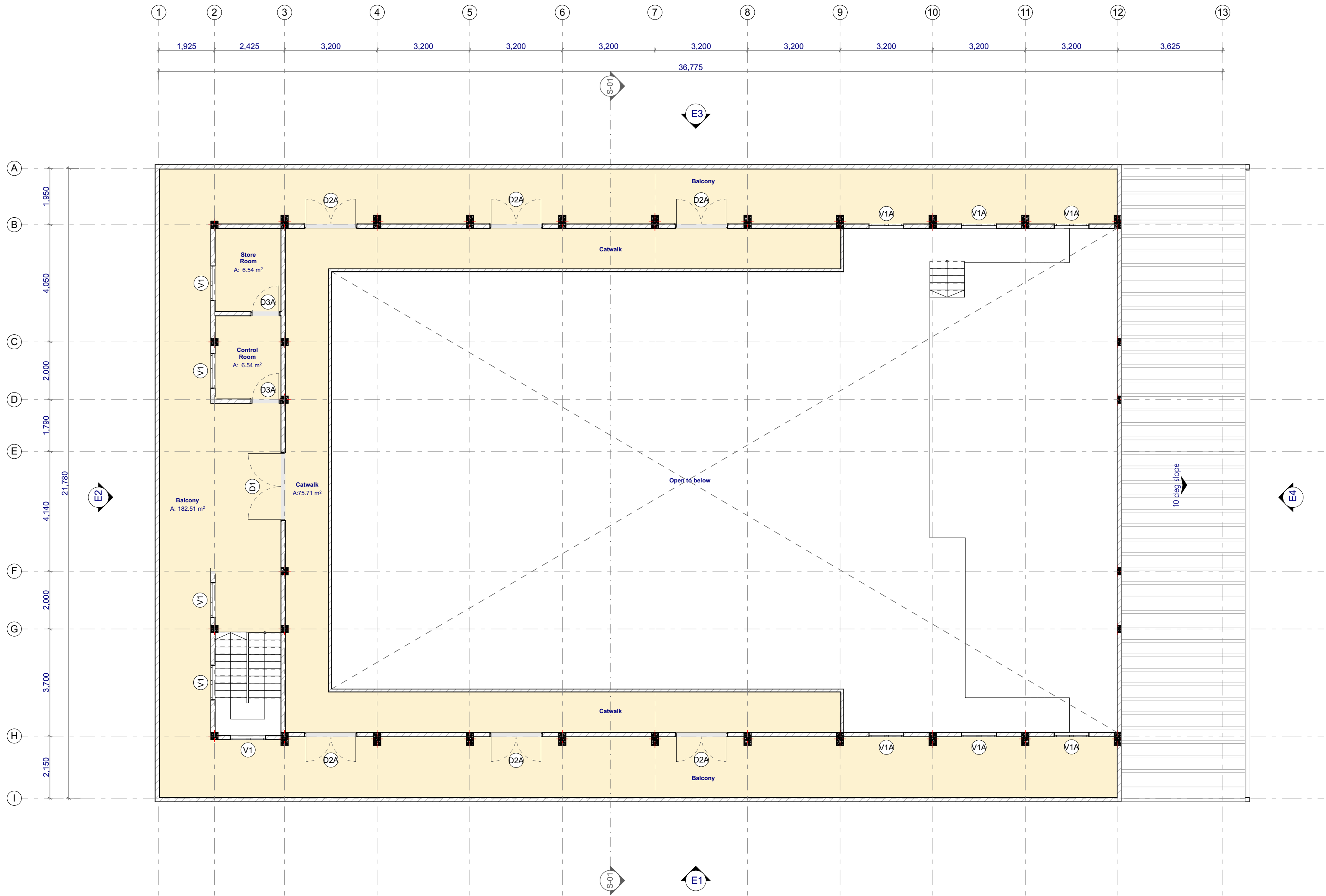
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FINISHES							
Home Story	Zone Name	Calculated Area	Floor Finishes	Floor Level	Ceiling Finishes	Ceiling Level	Wall Finishes
First Floor Level	---	---	---	---	---	---	---
First Floor Level	---	---	---	---	---	---	---
First Floor Level	Balcony	182.51	Self Levelling cement floor screed with bituminous waterproofing agent	3650mm			16mm plaster, applied with ground smooth finished with selected paint
First Floor Level	Catwalk	75.71	Self Levelling cement for screed with epoxy floor paint	3650mm	Suspended acoustic ceiling system with aluminum framing	+7300mm	16mm plaster, applied with ground smooth finished with selected paint
First Floor Level	Control Room	6.54	600 X 600mm Homogenous non-slip tiles over 50mm screeding	3650mm	Exposed slab soffit to be finished with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
First Floor Level	Store Room	6.54	600 X 600mm Homogenous non-slip tiles over 50mm screeding	3650mm	Exposed slab soffit to be finished with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint

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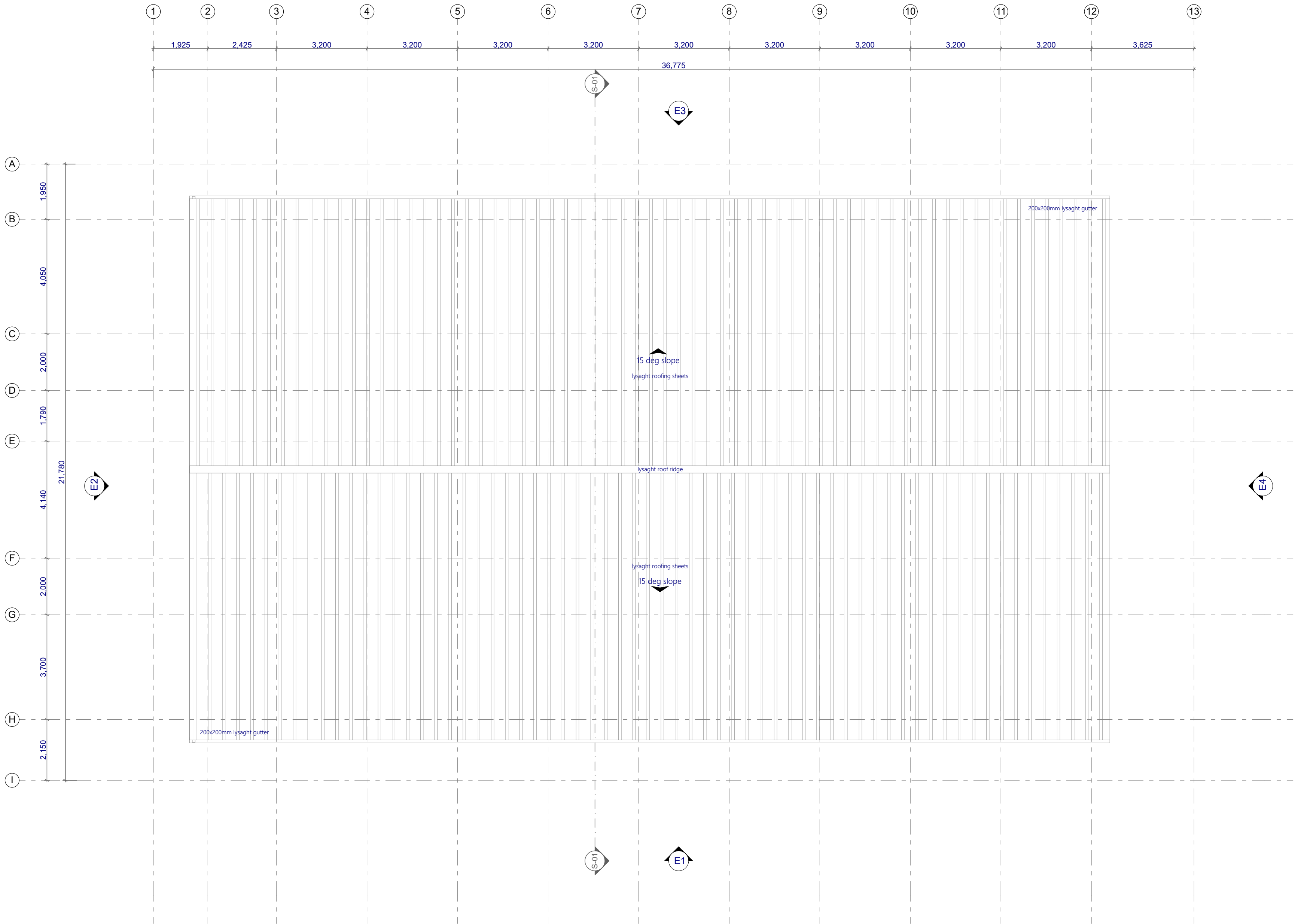
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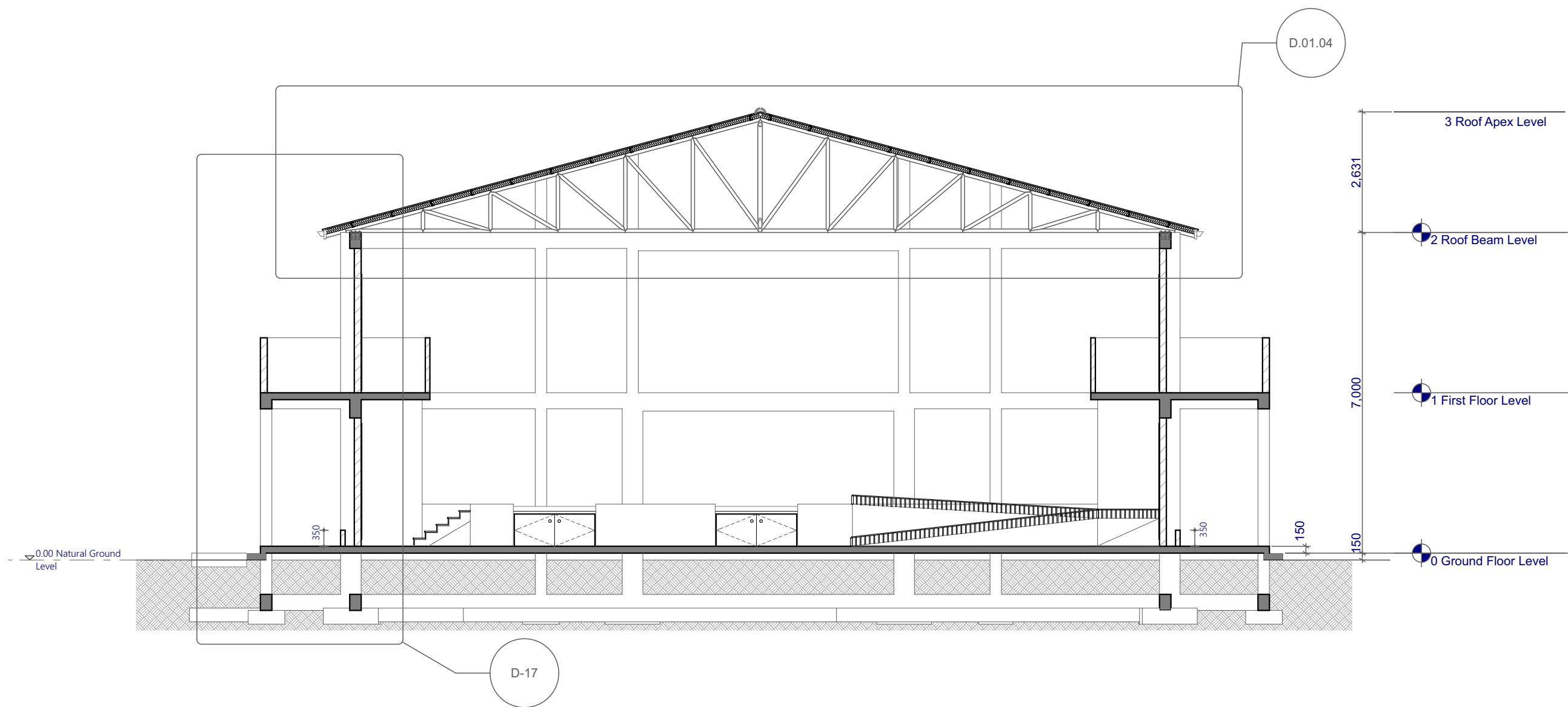


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Roof Plan

1:100



PROPOSED \_\_\_ STOREY BUILDING AT

# Multipurpose Hall, Sh Foakaidhoo

Client:  
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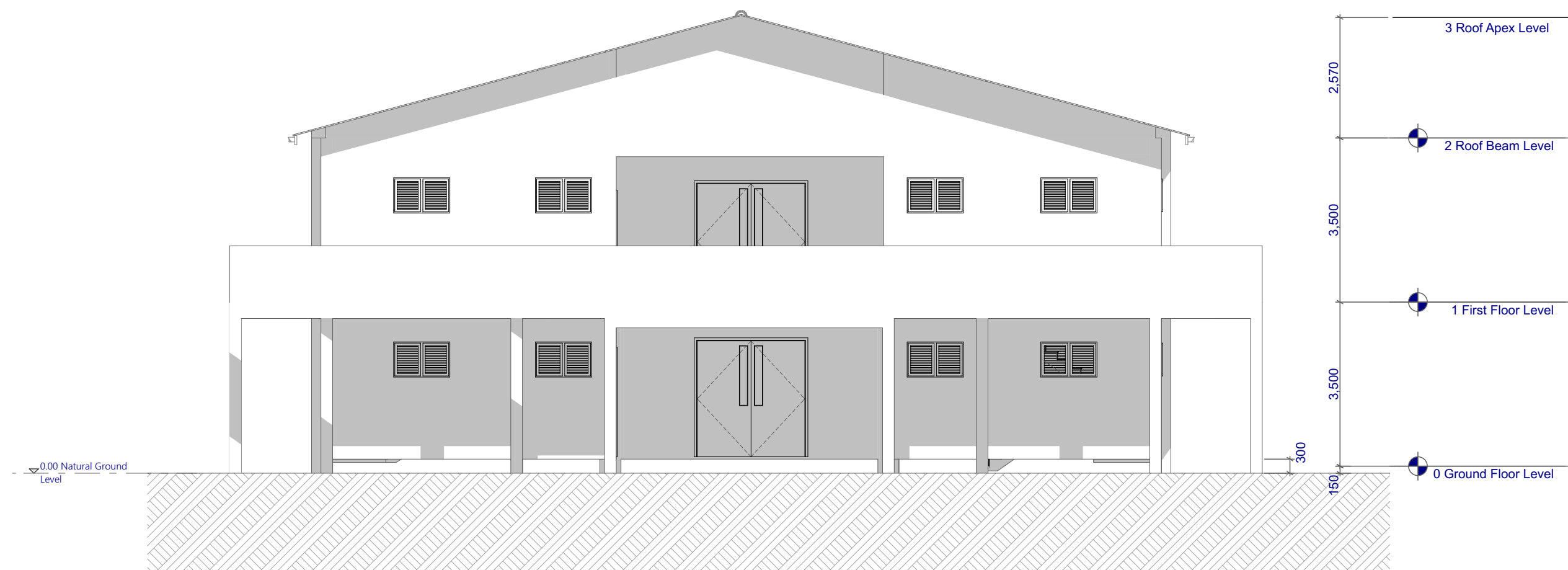
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Section S1

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Elevation E1

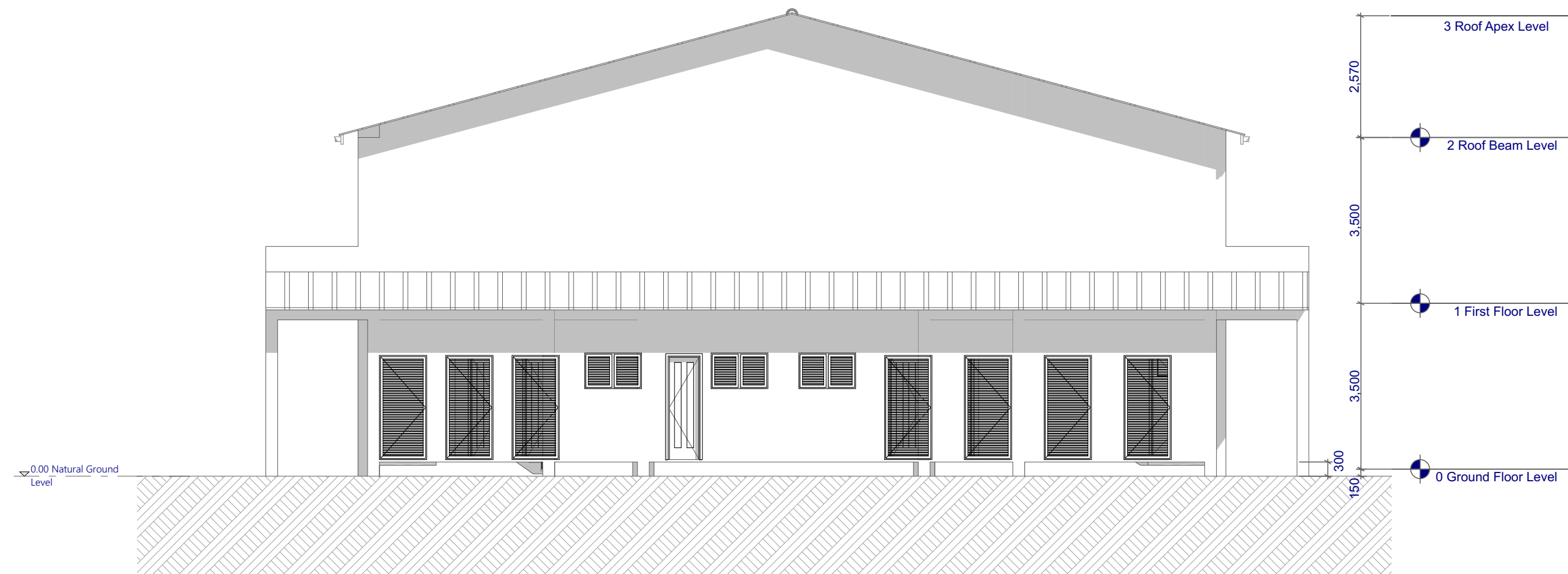


Elevation E2





Elevation E1



Elevation E2

Elevation E3 & E4

1:100

PROPOSED 02 STOREY BUILDING AT

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All Openings Schedule			
Element ID	D1	D1	D2
Quantity	1	2	8
W x H Size	2,350×2,500	2,350×2,500	1,800×2,500
Head Height	2,700	2,550	2,800
Sill Height	200	50	300
2D Symbol			
View from Side Opposite to Opening Side			
Frame 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
Glass	Clear Glass	Clear Glass	(No Glazing)
Leaf Outside	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour
Sash Outside	---	---	---

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depth are 100mm  
All door panel thicknesses are 35mm  
All window manel thickness are 25mm  
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

1. Door size more than 700X900mm  
WD: 125mm X 2 sets  
SD: 150mm X 3 sets
2. 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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All Openings Schedule					
Element ID	D2A	D3	D3A	D4	D5
Quantity	6	3	2	1	7
W x H Size	1,800×2,500	1,000×2,300	1,000×2,300	1,100×2,200	700×2,200
Head Height	2,550	2,500	2,350	2,500	2,400
Sill Height	50	200	50	300	200
2D Symbol					
View from Side Opposite to Opening Side					
Frame 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	50mm Thick powder coated (60 microns) Aluminum panel of selected colour
Glass	Clear Glass	(No Glazing)	(No Glazing)	Clear Glass	(No Glazing)
Leaf Outside	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour	6mm Thick powder coated (60 microns) Aluminum panel of a selected colour
Sash Outside	---	---	---	---	---

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- 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

All Openings Schedule					
Element ID	D6	V1	V1A	V2	W1
Quantity	2	10	6	3	7
W x H Size	1,800×725	1,200×750	1,200×750	1,200×750	1,000×2,200
Head Height	875	2,650	2,650	2,450	2,400
Sill Height	150	1,900	1,900	1,700	200
2D Symbol					
View from Side Opposite to Opening Side					
Frame Outside	Hard Wood Solid Core	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
Glass	(No Glazing)	(No Glazing)	Clear Glass	(No Glazing)	(No Glazing)
Leaf Outside	Hard Wood Solid Core	---	---	---	---
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	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 depth are 100mm  
All door panel thicknesses are 35mm  
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SD: 150mm X 3 sets
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SD: 125mm X 2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be 1000mm above FFL

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Multipurpose Hall,  
Sh Foakaidhoo

Client:  
Ministry of Education,  
Maldives

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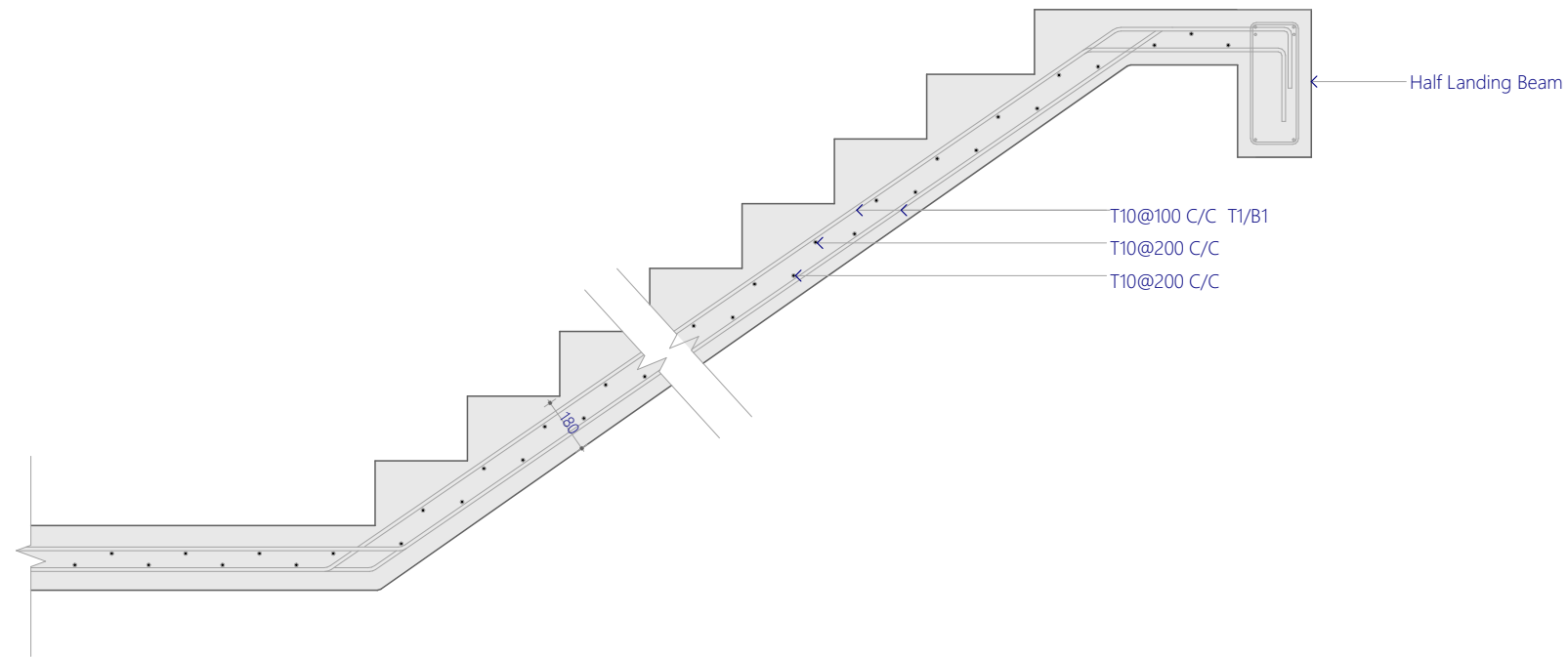
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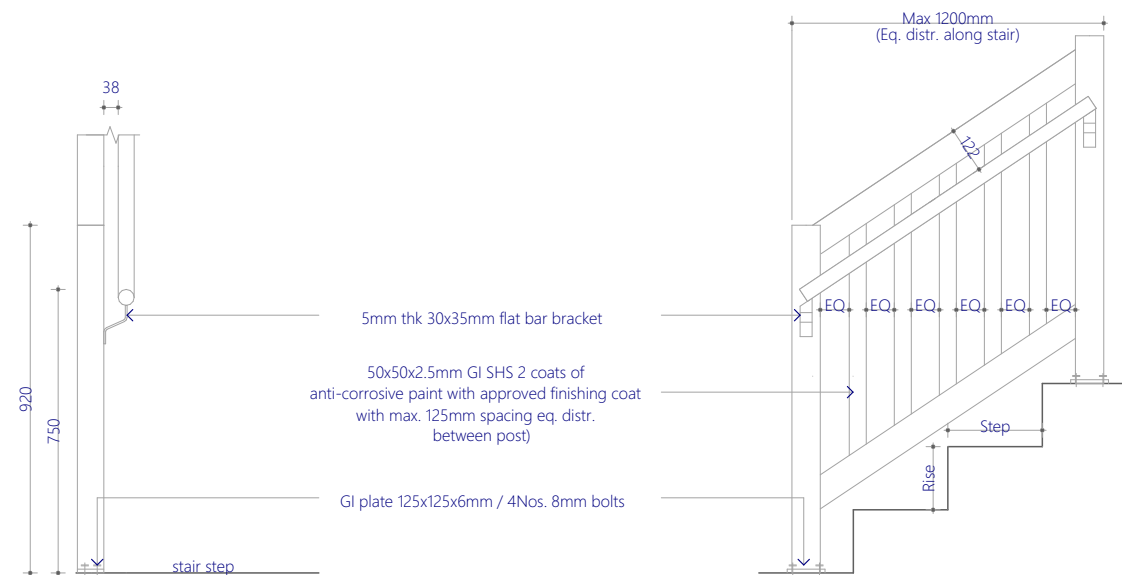
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Stair Reinforcement Detail  
1:20



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: 175mm

Stair Railing Detail  
1:20

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## Multipurpose Hall, Sh Foakaidhoo

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Main Stair Detail

1:20

Ventilation Schedule

Room Name	Room Area	Opening	Required Opening	Designed Opening	Opening %
Ground Floor					
Multipurpose Hall	383.26	D1, 14XD2, V1X6	38.326	66.84	17.44
Toilet (F)	13.21	W1X3	1.321	5.67	42.92
Changing room (F)	6.86	V2	0.686	0.72	10.50
Toilet (M)	11.21	W1X3	1.121	5.67	50.58
Changing room (M)	7.3	V2	0.73	0.72	9.86
Store 1	Mechanical Ventilation				
Store 2	Mechanical Ventilation				
First Floor					
Store Room	6.54	V1	0.654	0.72	11.01
Control Room	6.54	V1	0.654	0.72	11.01

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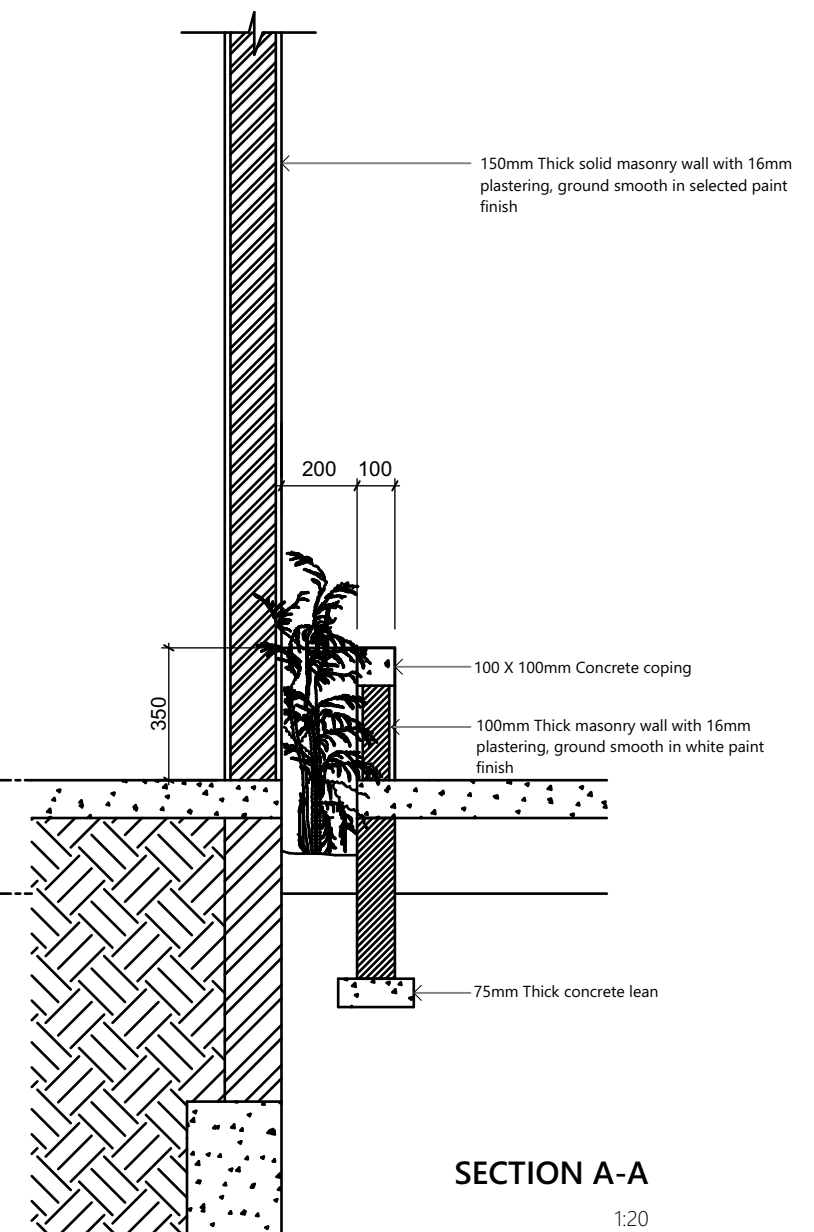
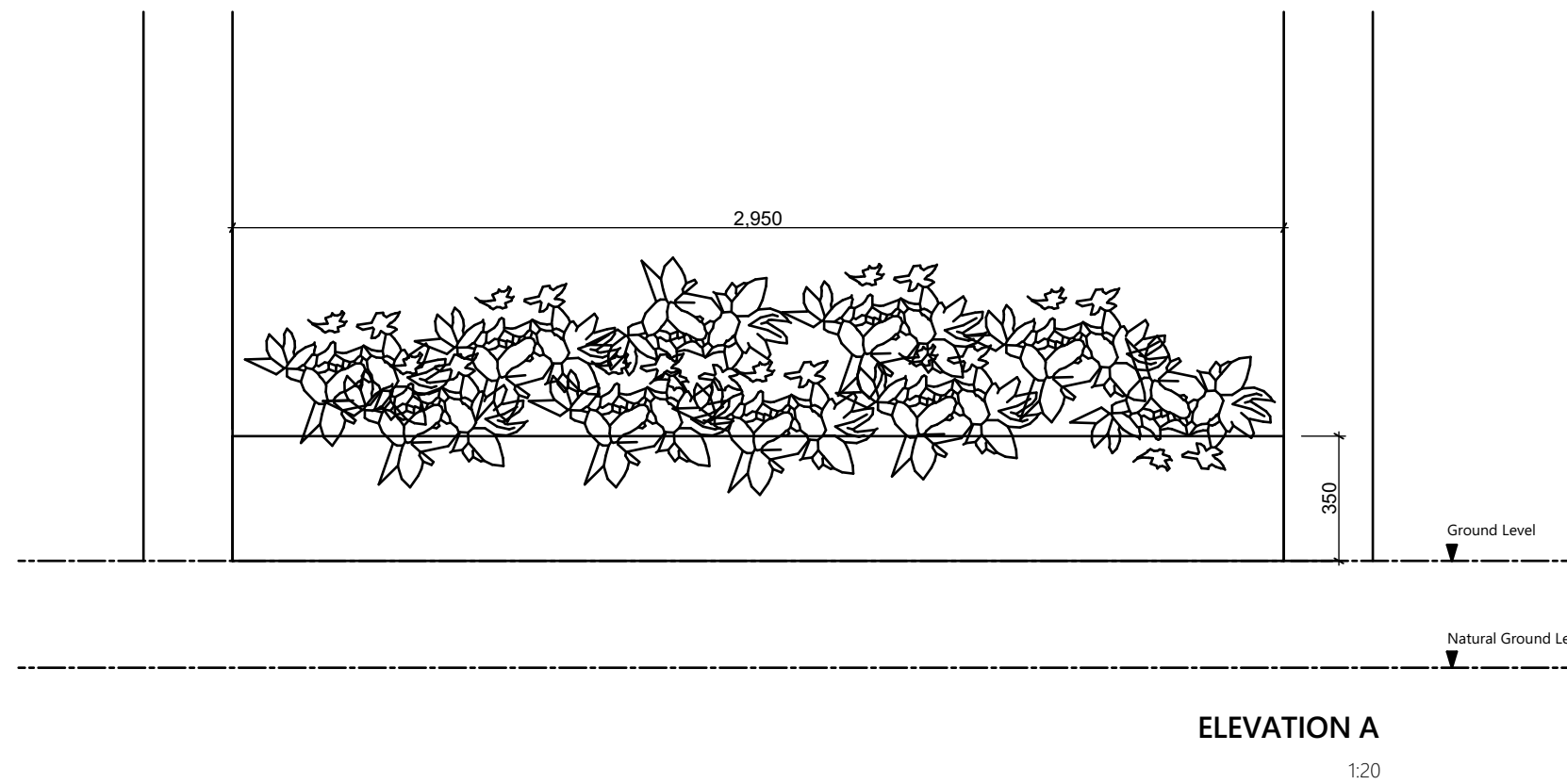
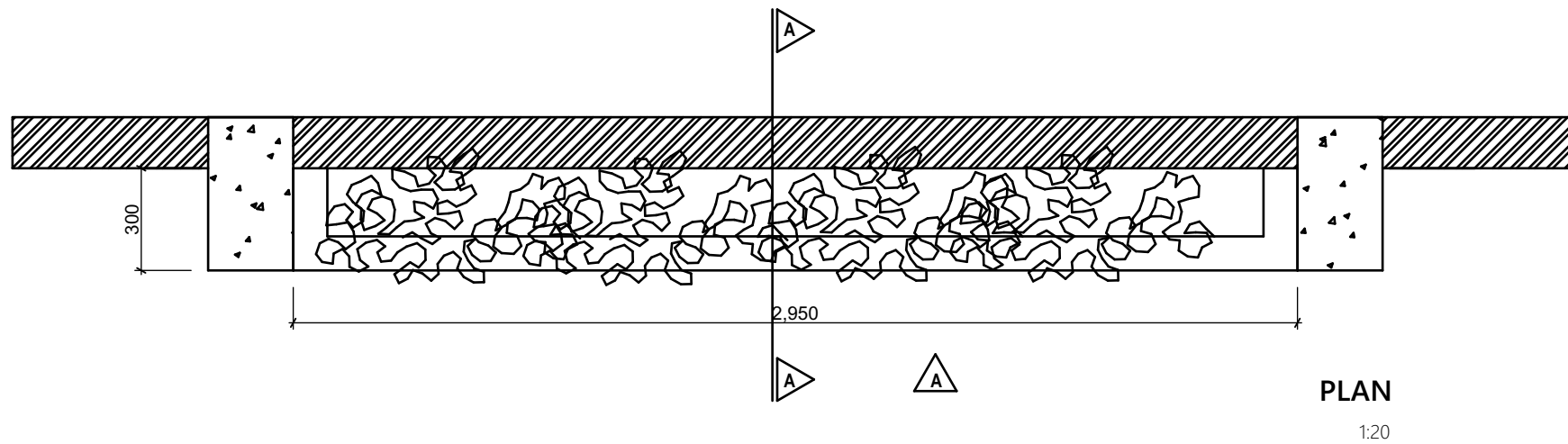
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C.01.2



## Planter Box Details

PROPOSED \_\_ STOREY BUILDING AT

## Multipurpose Hall, Sh Foakaidhoo

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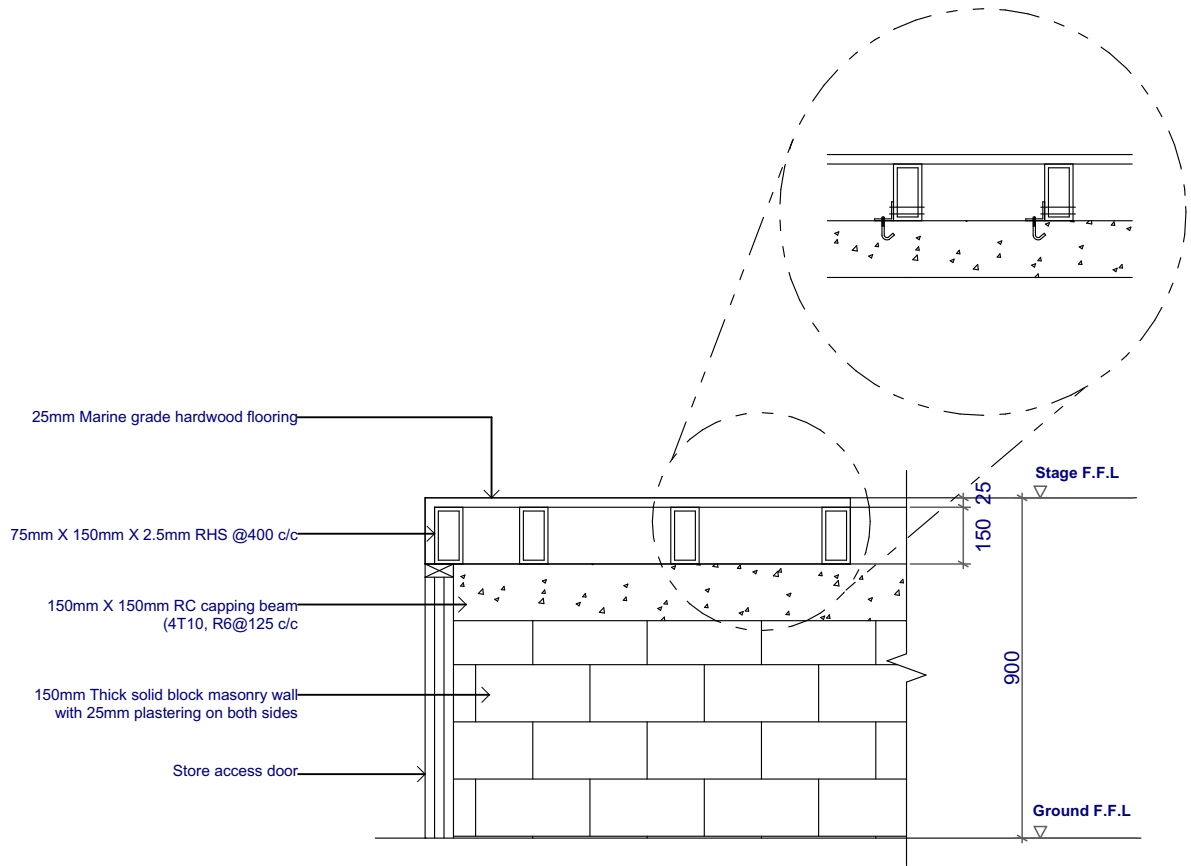
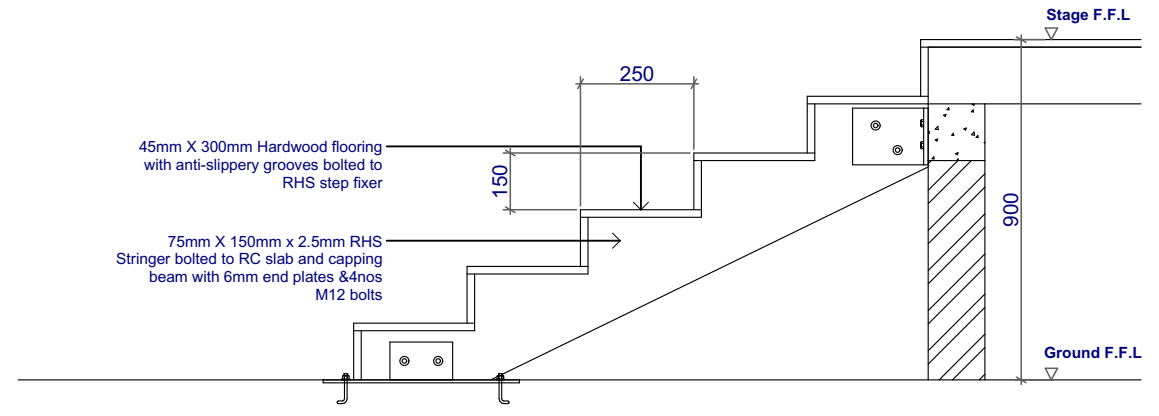
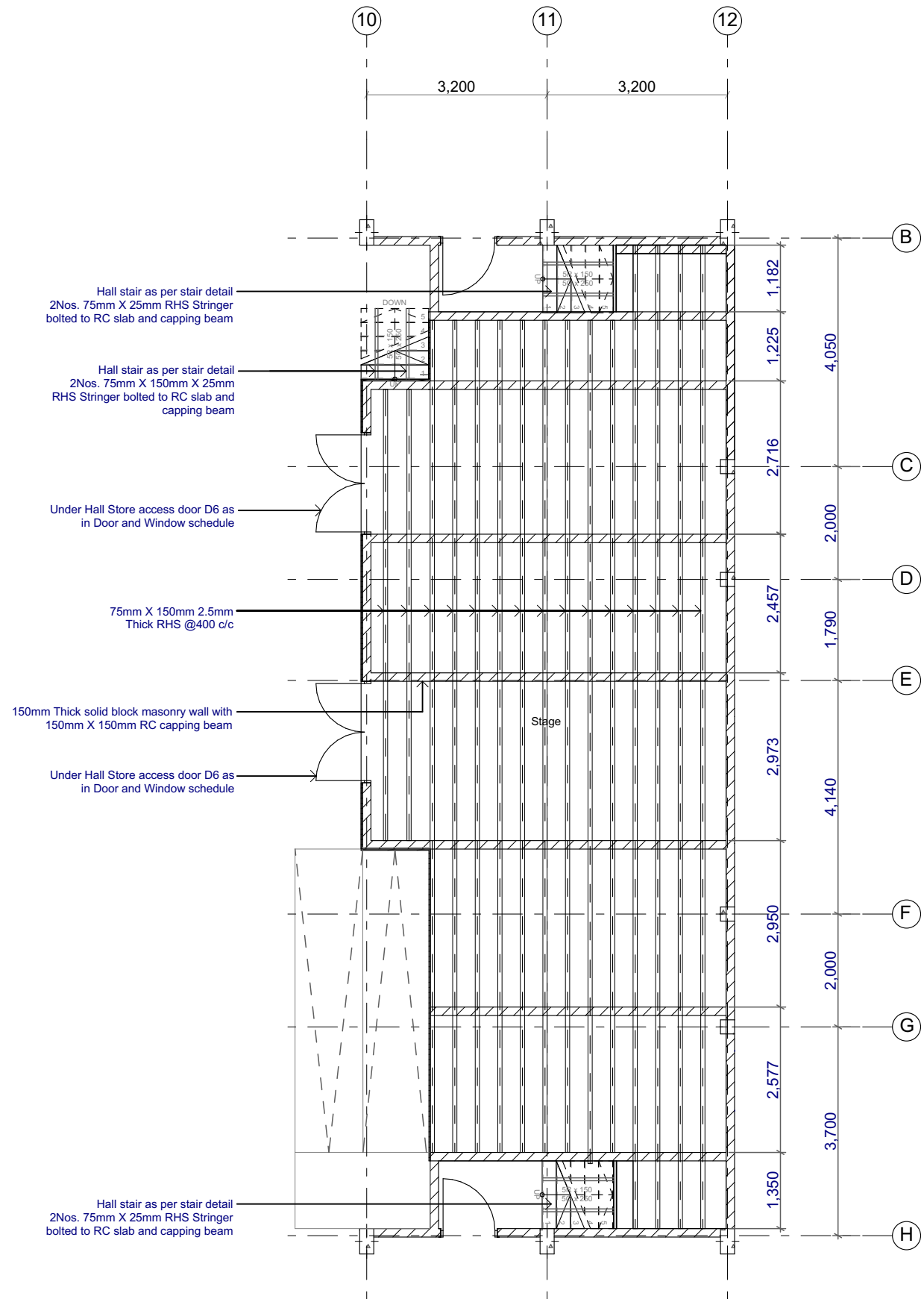
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Stage Detail

1:100

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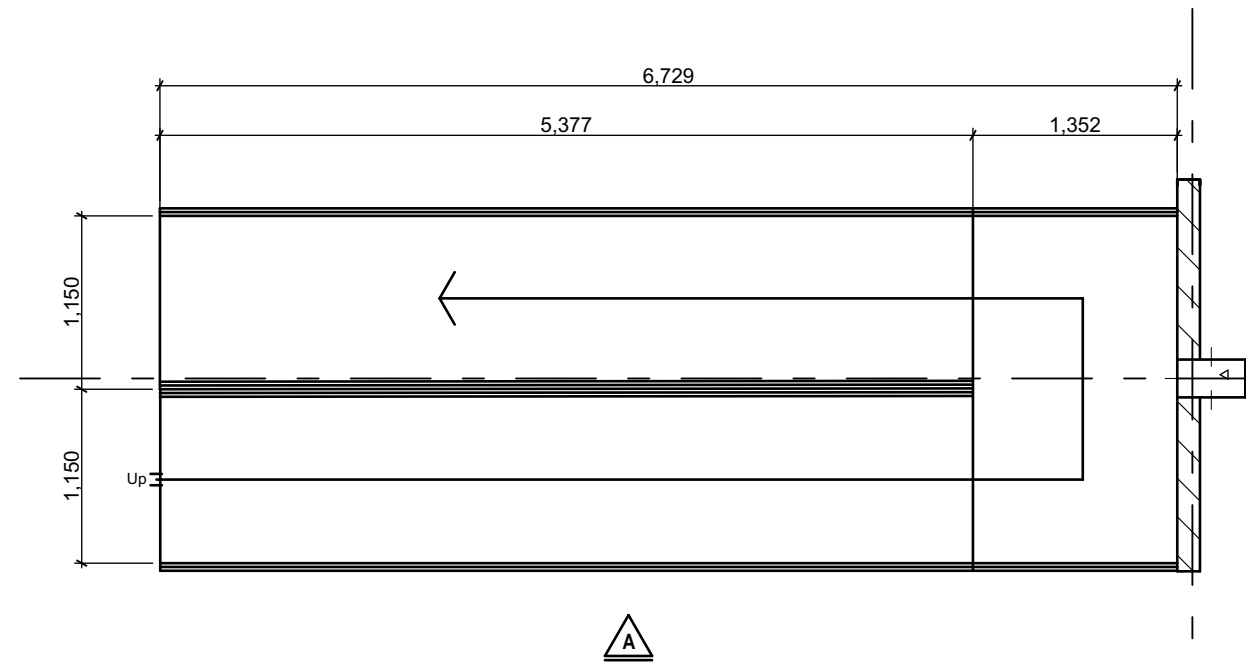
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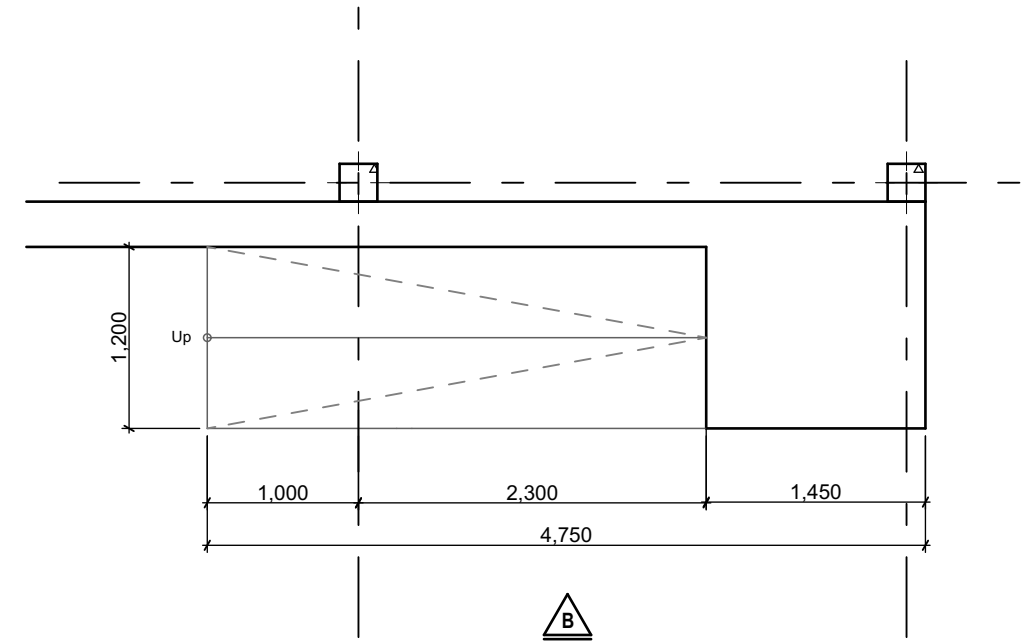
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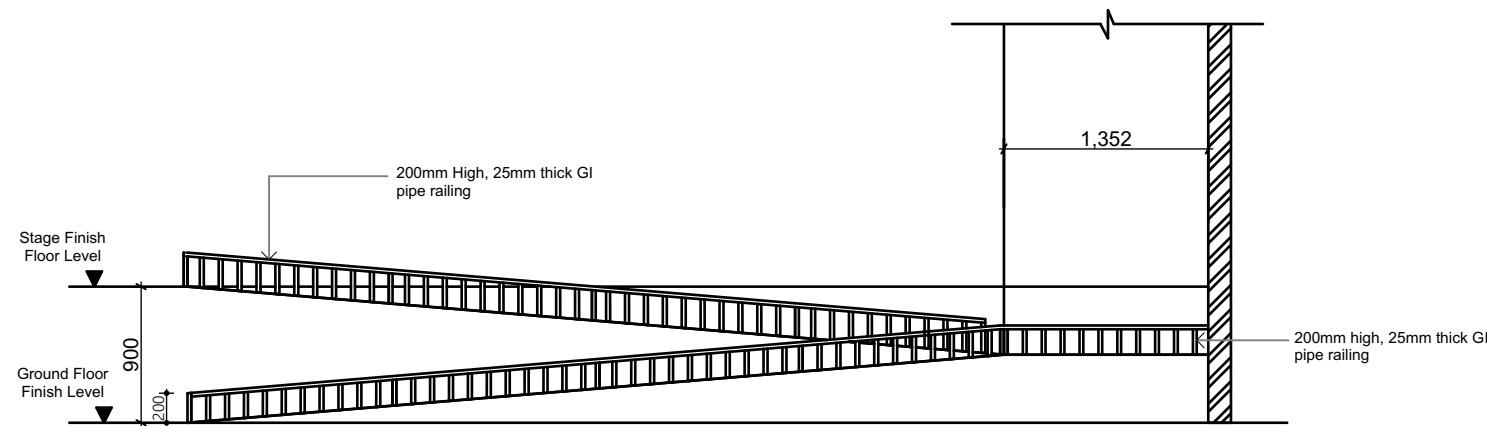




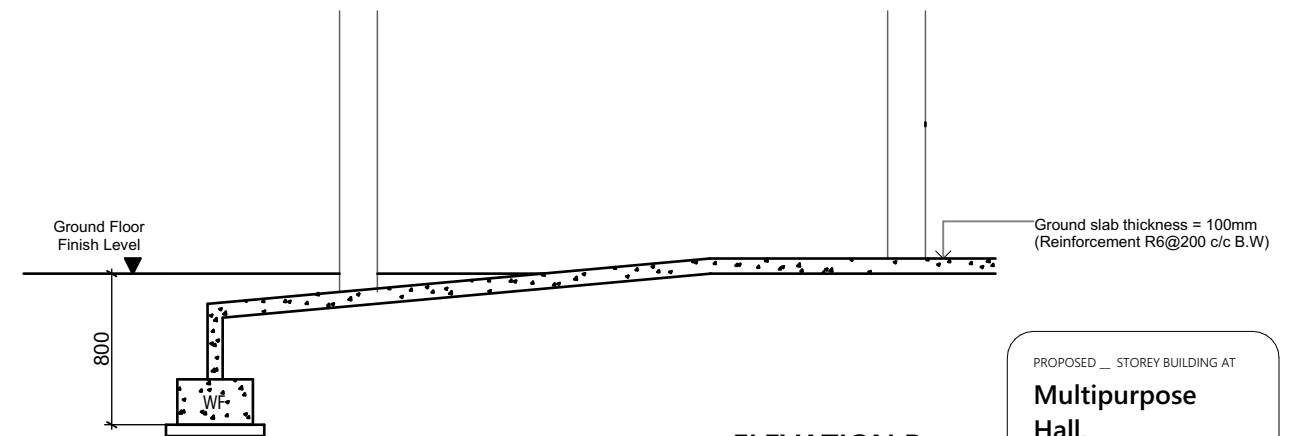
PLAN  
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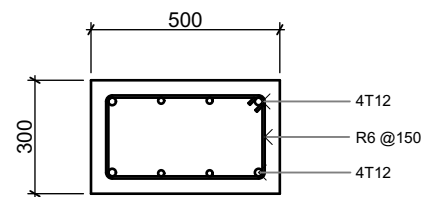
PLAN  
1:20



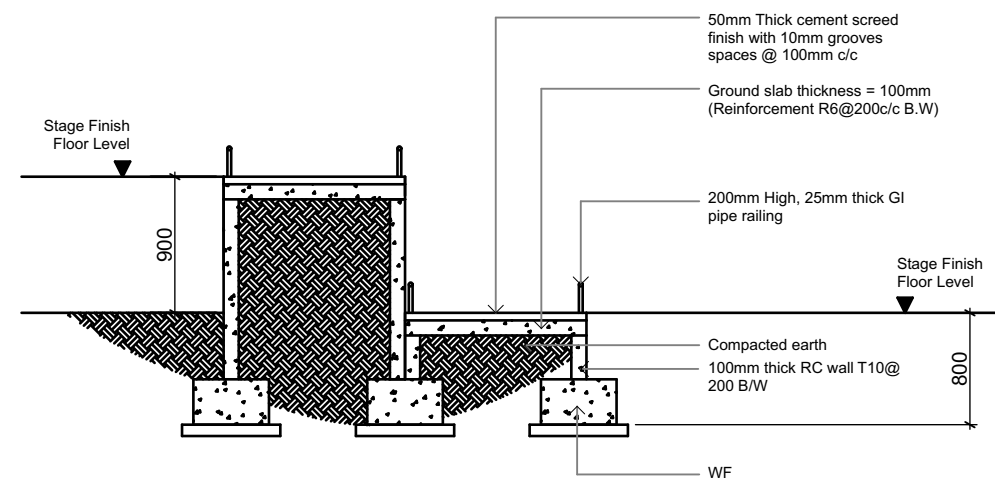
ELEVATION A  
1:50



ELEVATION B  
1:50



WF - Wall footing detail  
1:50



SECTION D-D  
1:50

Ramp Detail  
1:50

PROPOSED \_\_\_ STOREY BUILDING AT  
**Multipurpose  
Hall,  
Sh Foakaidhoo**

Client:  
**Ministry of Education,  
Maldives**

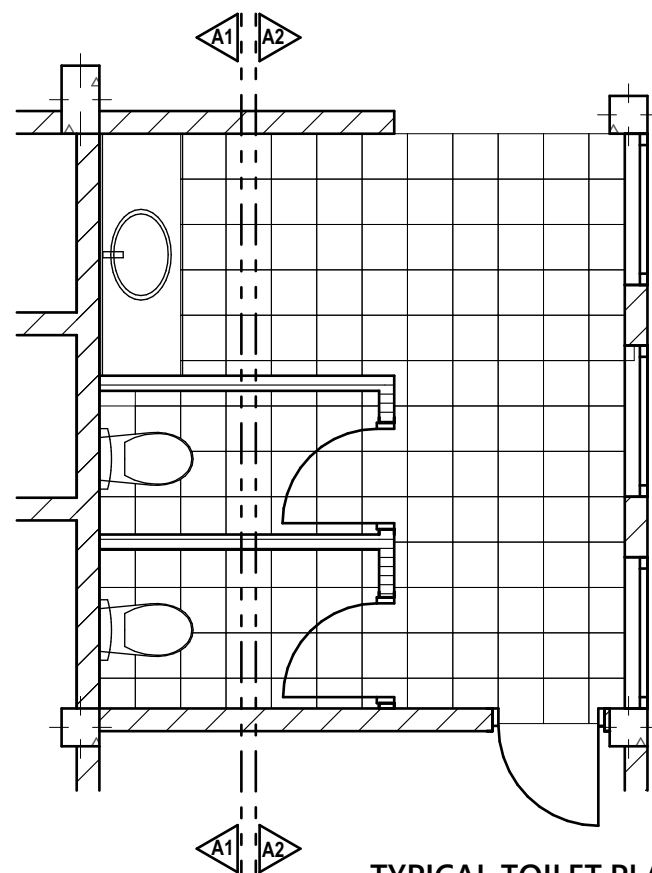
03/09/2020

Architect: Fathmath Ihudha Amir  
Engineer: Adam Madheeh  
Drawn By: Fathmath Ihudha Amir

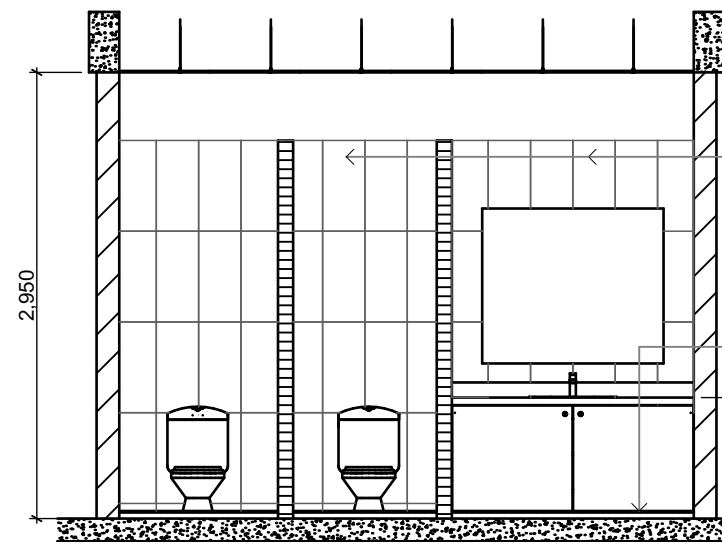
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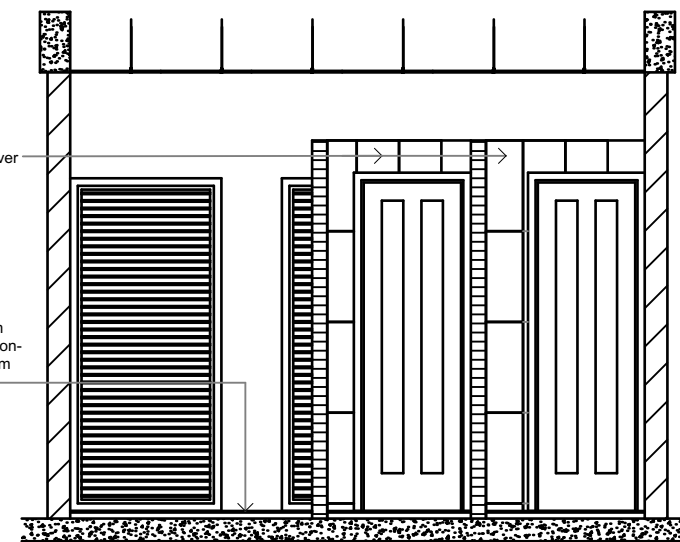
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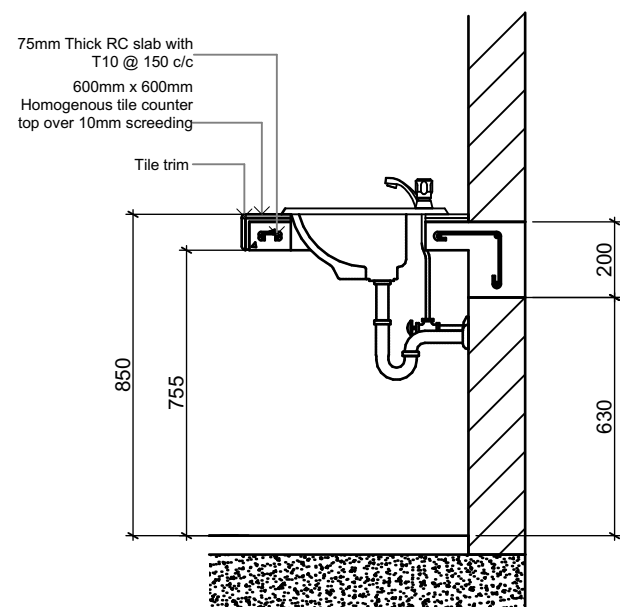
**TYPICAL TOILET PLAN**  
1:50



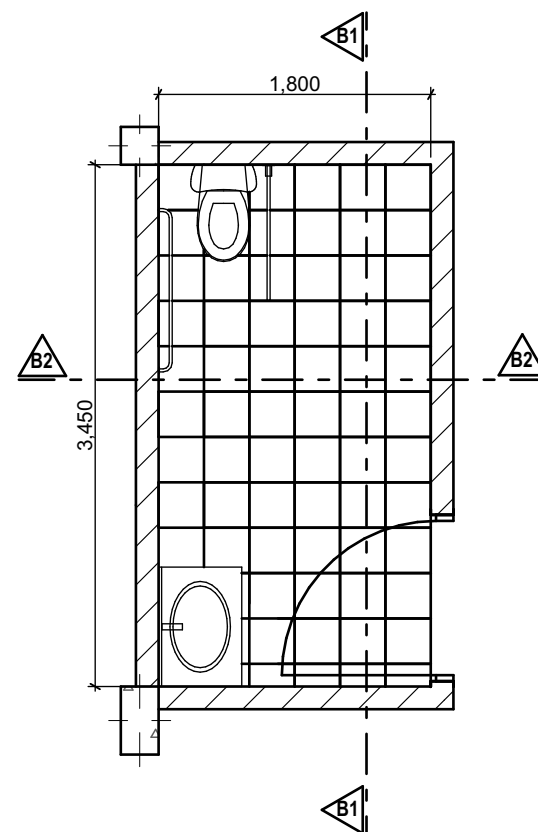
**SECTION A1**  
1:50



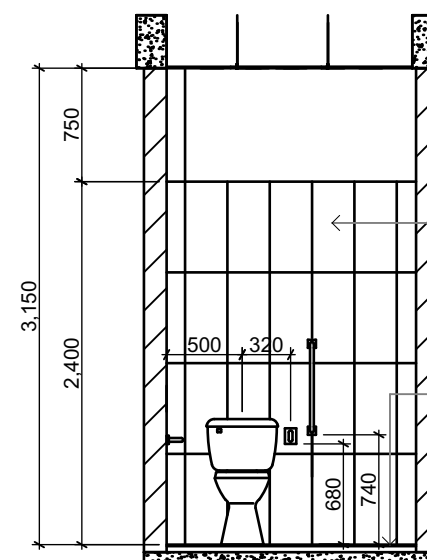
**SECTION A2**  
1:50



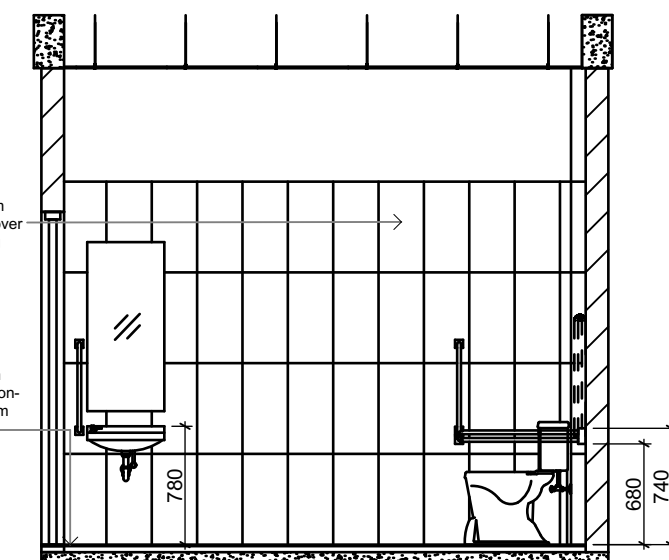
**COUNTER TOP DETAILS**  
1:20



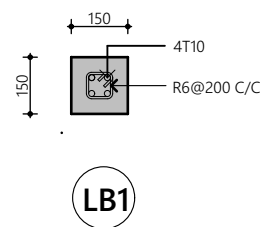
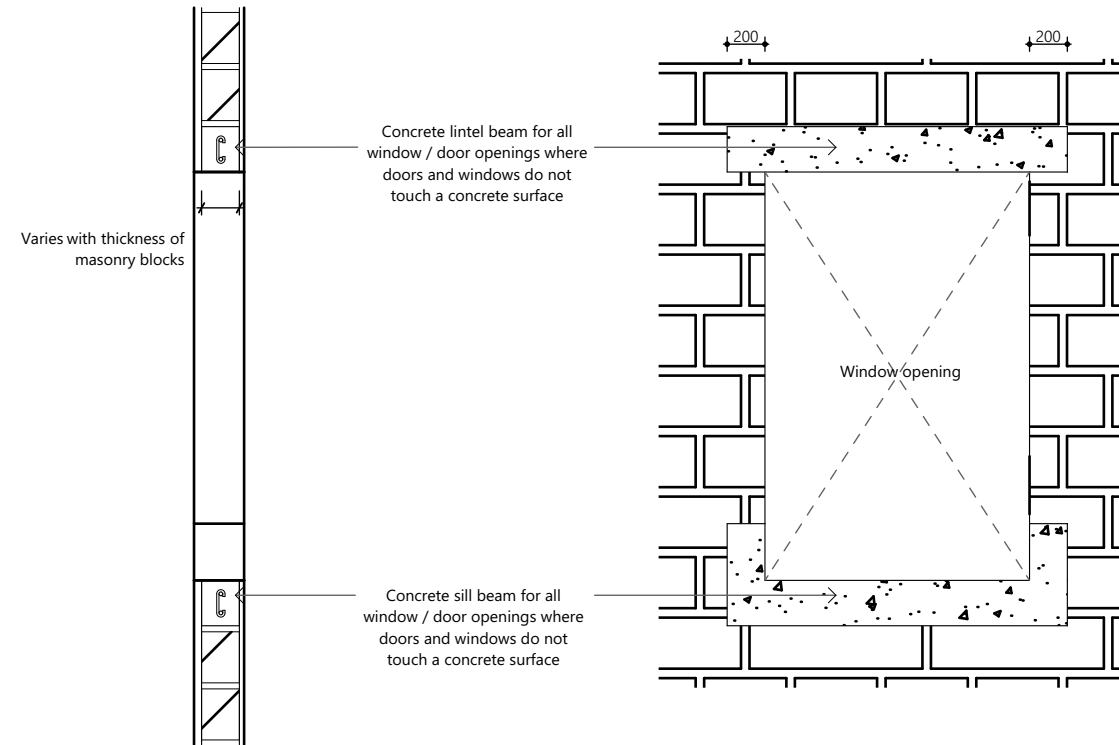
**TOILET FOR PERSONS WITH  
DISABILITIES DETAIL**  
1:50



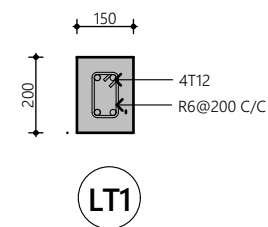
**SECTION B1**  
1:50



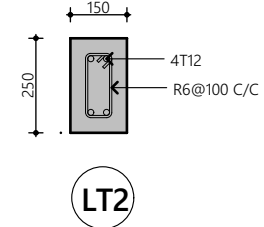
**SECTION B2**  
1:50



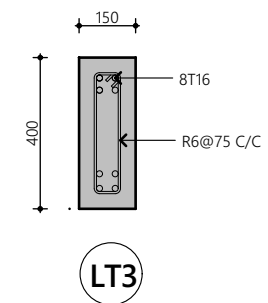
**Sill Beam Detail**  
1:20



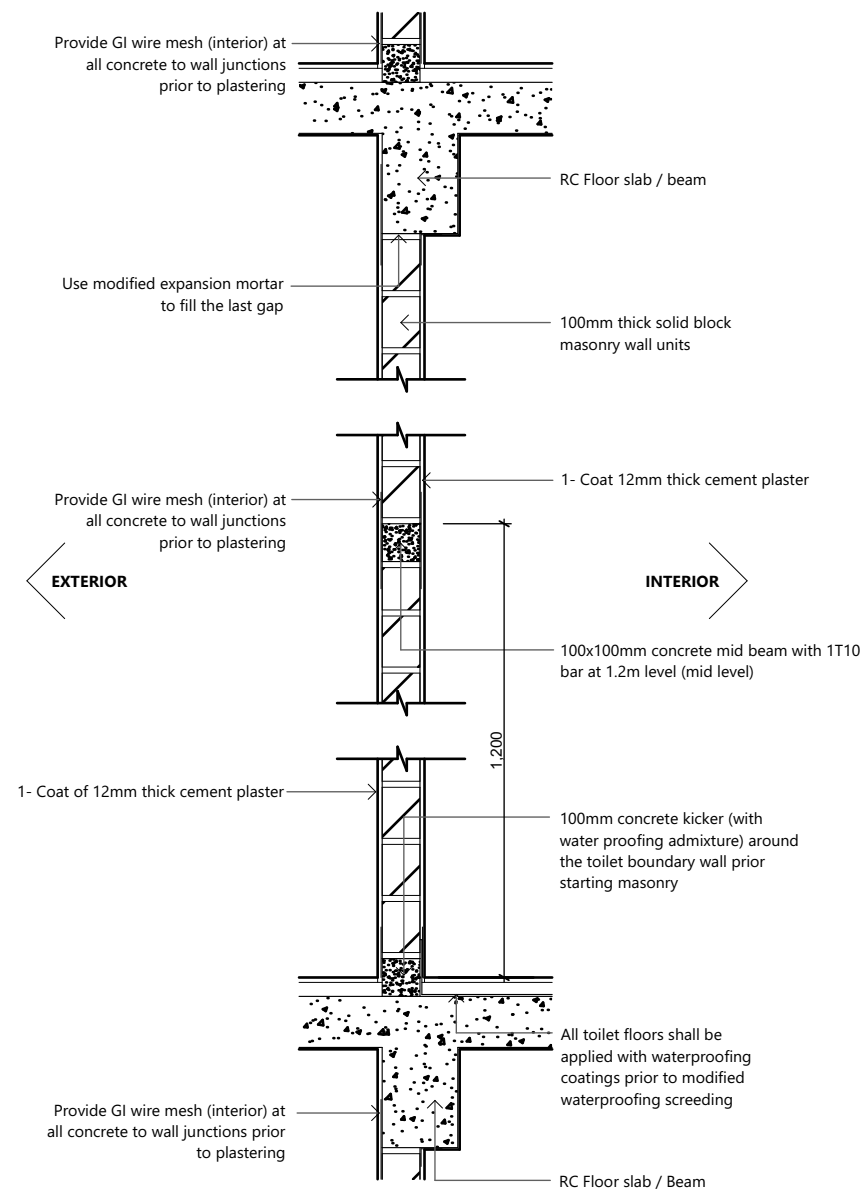
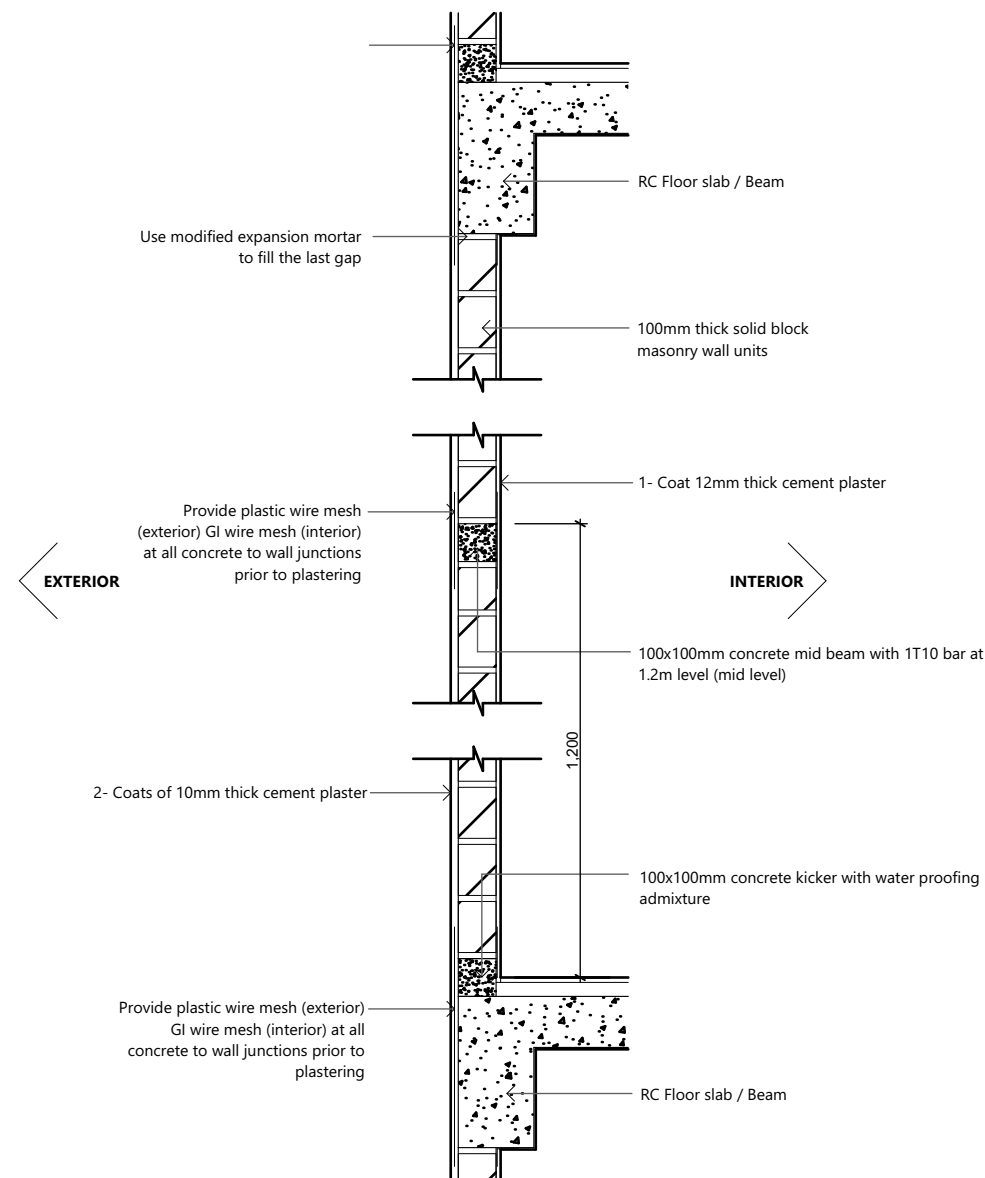
Lintels over all doors, windows  
(that does not rise to beam level)  
LT1 for windows < 1.5m



Lintels over all doors, windows  
(that does not rise to beam level)  
LT2 for windows > 1.5m & < 3.0m



Lintels over all doors, windows  
(that does not rise to beam level)  
LT3 for windows > 3m & < 6.0m



#### 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 \_\_ STOREY BUILDING AT

## Multipurpose Hall, Sh Foakaidhoo

Client:

Ministry of Education,  
Maldives

03/09/2020

Architect: Fathmath Ihudha Amir  
Engineer: Adam Madheeh  
Drawn By: Fathmath Ihudha Amir



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1. General notes

- 1.1.Do not scale the drawings All dimensions shall be read from the drawing or computerElevations are in millimeters, distances and reinforcement bar sizes are in millimeters
- 1.2. In the interpretation of these drawingsindicated dimensions shall govern and distances or sizes shall not be scaled for construction purposes
- 1.3. The contractor shall coordinate with the arse, ee and other utility and equipment plans for the exact size number and locations of all sleeves or openings through floor slabbeams and walls Any discrepancies or conflict in the setting out lines levels, details, locations, sizes, reinforcement etc Of the structural member shall be brought to the attention of the engineer prior to commencement of work
- 1.4. All reinforced concrete work shall be done in accordance with the british structural code ~~BS8100~~ or ec-en2 building code
- 1.5. All structural steel work shall be done in accordance with the british structural code ~~BS5950~~ parts 1to 9 and ec-en3 in so far as they do not conflict with the local building code requirements
- 1.6. All slabs, beams and other structural elements which are not indicatedetailed, designated or inadvertently omitted but are necessary to be coordinated with architectural and other allied engineering plans as well as to complete the structural works in accordance with the intent of the plans and specifications shall be brought up during pre-bids/meetings/negotiations It is understood that the contractor has provided and included all these items in his bid.
- 1.7. The contractor shall produce shop drawings and schedules as required for completion of the works and record drawings of the as-built and builder works for the consultant's approval.
- 1.8. Contractor shall do full coordination between structuralarchitectural and mep drawings in wet areas to allow for drainage pipes
- 1.9. All discrepancies shall be brought to the attention of the consultant engineer proceeding with the work on site
- 1.10. All materials to be used in conjunctions shall comply with the requirements of the specified codesstandards and ordinance of relevant building authorities unless noted otherwise in the project specification ~~and~~ drawings
- 1.11. All dimensions and levels shown on the drawings shall be verified by the contractorAny discrepancies shall be brought to consultants attention prior to construction
- 1.12. The contractor shall ensure that during constructionno part of the structure is overstressed by excessive construction loads until their completionTemporary bracing and propping to be provided were required
- 1.13. Once the excavation is done to a specified depththe bearing capacity of the soil shall be confirmed by relevant test, if the value is less than the design bearing capacity the engineer is to be informed immediately
- 1.14. The contractor shall submit a method statement for all elements of work and shall not proceed until consultant written approval is given The method statement shall provide the contractor's preferable options where such options are available.
- 1.15. The contractor shall comply with all requirements of the local regulations and requirements of all concerned authorities
- 1.16. Quality of concrete finish for all nonplastered columns and beams is to be in accordance with fair faced concrete as reflected on the architectural drawings and specifications
- 1.17. Any structural requirements specified by relevant authoritieswhich are not covered in notes and specifications are assumed to be duly considered by the contractor
- 1.18. All typical details and notes shown on drawings shall apply unless noted otherwiseTypical detail may not necessary be indicated on the plans but shall still apply as shown or described in the details where particular details are noted on the drawings the specified details shall be used
- 1.19. The design life of the structure of this project shall maintain a minimum ~~50~~ years life period The primary structural components are to be designed and detailed to satisfy this requirementConcrete mix supplier shall submit a life cycle analysis which reflect a50 years design life without maintenanceinspection and repair requirement during this period

2. Concrete

- 2.1. All concrete works shall conform to the bs8110 or ec-en, a grade of c25/30 indicates that concrete shall have a fcu compressive strength of 30n/mm2 established from test cubes at 28 days equivalent to a compressive strength of 25n/mm2 established from cylinder tests at 28 days.
- concrete mix design shall comply with bs8500-1:2006 as follows:
- |   |         |         |         |          |
|---|---------|---------|---------|----------|
| Miz Number                              | 1       | 2       | 3       | 4        |
| Grade                                   | C30/37  | C25/30  | C25/30  | C16/20   |
| Min cement content (kg/m <sup>3</sup> ) | 380     | 340     | 340     | 300      |
| Cement Type                             | SRC     | SRC     | OPC     | SRC      |
| Max free W/C ratio                      | 0.4     | 0.45    | 0.45    | 0.55     |
| Slump                                   | 75 ± 25 | 75 ± 25 | 75 ± 25 | 100 ± 25 |
| Aggregate                               | 20      | 20      | 20      | 20       |
- mix 1 - used in reinforced concrete works for structures at sea/exposed to sea, water retaining structures and tank structures.
- mix 2 - used in reinforced concrete works for ground level and below (sub-structutre) or any reinforced concrete works in contact with soil or water.
- mix 3 - used in reinforced concrete works above ground flr lvl (superstructure) for horizontal members (beams/slabs) and vertical members (columns/walls).
- mix 4 - used for plain concrete blinding and mass fill.

- 2.2. Contractor shall implement a trial mix in accordance with the project specifications & authority requirements. Trial mix results shall be submitted for engineer 's review & approval prior to commencing concreting.
- 2.3. Contractor shall submit the details of additives, plasticizers, micro silica, curing compounds, waterproofing agents, etc. Application should follow strictly the manufacturer recommendation. It is contractors responsibility to ensure that all constituents of concrete are compatible to each other.

- 2.4. Maximum percentage (by weight) of salt contents permissible in aggregates used for concrete, hollow blocks & hourdi blocks, etc, shall be as follows:
- a) acid soluble chlorides in aggregate - (fine 0.03%, coarse 0.02%)
  - b) acid soluble sulphate in aggregate - (fine 0.3%, coarse 0.2%)

- 2.5. Concrete shall be cured by an approved means in accordance with the specifications.

- 2.6. Aggregates shall be from approved source and in accordance with the specifications.

- 2.7. Openings, sleeves:
- a) no holes, sleeves or penetrations be placed vertically or horizontally through beams unless approved by the engineer.
  - b) no holes to be made in slabs unless approved by the engineer.

- 2.8. Construction joints:
- a) the contractor shall submit to the engineer for approval a plan marked up showing the location of all construction joints
  - b) horizontal construction joints shall not be made in beams, unless approved by the consultant or engineers
  - c) vertical construction joints may be located at midspan of slabs or beams after reviewed and approved by the engineers
  - d) contractor shall submit shear friction and the additional required reinforcement calculation of construction joint at any location) for engineers review and approval.

3. Reinforcement

- 3.1. The reinforcement used in the reinforced concrete shall be round, deformed type 2 bars marked as (t) to indicate high yield strength of 460n/mm2 to bs4449 or type 500b to ec-en. The carbon equivalent of rebars should not exceed 0.51 for grade 460.
- 3.2. Reinforcement details shown are indicative. The contractor shall prepare detailed shop drawings & full bar schedules in accordance with the design drawings and shall be cut and bent in accordance with bs 8666 and aci 315-09 for the engineer's approval at least four weeks prior to commencement of reinforced concrete work and after coordinating with all concerned parties.
- 3.3. Lap lengths and anchorage lengths of reinforcement shall be as per bs 8110 and ec en. Additional lapping if required to be provided with engineer's approval. The minimum lap length of reinforcement shall be the maximum of (45 bar dia in general and 50 dia for tension) or the values of the table a.

Table a : schedule of lap splices

Bar dia	lap splices length (mm)
10	500
12	600
16	800
20	1000
25	1250

- 3.4. Spacer bars in beams shall be a minimum t25 or the size of bar if greater at 1000mm c/c; chairs in slabs shall be a minimum t12@1000mm c/c; and minimum ties in walls shall be t8@1000mm c/c.

- 3.5. Clear cover to reinforcement including links, stirrups, and ties shall be as follows:

A) structure in contact with ground

- Footings = 75mm
- Wall and column = 50mm
- Ground beam = 50mm
- Slab at ground level = 50mm

B) super structure

- Columns = 40mm
- Beams = 35mm
- Slabs = 30mm
- Walls = 40mm
- All concrete elements in contact with water/splash zone = 50mm

- 3.6. Reinforcement bars to be cut, bent or adjusted to clear all openings and interfering structures to suit at site to the approval of the consultant or engineer.

- 3.7. For holes in slabs up to 300x300 sq., reinforcement is to be cut and replacement bars fixed adjacent to the hole extending 50x bar diameter beyond the hole.

4. Fire resistance

- 4.1. All structural concrete members between units on boundaries are designed to maintain fire resistance of 2 hours.

General Notes 01

PROPOSED \_\_\_ STOREY BUILDING AT

Multipurpose Hall,  
Sh Foakaidhoo

Client:

Ministry of Education,  
Maldives

03/09/2020

Architect: Fathmath Ihudha Amir  
Engineer: Adam Madheeh  
Drawn By: Fathmath Ihudha Amir



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5. Cracking

5.1. The cracking of the structural concrete in general is restricted to 0.30mm.

6. Earthwork & foundations

6.1. Foundation detail design is based on the assumed safe allowable bearing capacity has been taken as 150kpa. The actual requirement for the foundation design is to be verified based on final geotechnical report for the project

6.2. Excavations for foundations down to formation level shall be carried out by mechanical means, except for the last 100mm of excavation which is to be carried out by manual methods and recommended by geotechnical consultant.

6.3. The formation level of foundation is to be inspected and approved by the geotechnical engineer before commencement of the work.

6.4. Engineering fill (unless specified otherwise as a higher quality material) shall be selected well graded granular material approved by the engineer with a minimum soaked cbr of 15% compacted not exceeding 250mm in layers to 95% maximum dry density as per geotechnical investigation report recommendations in accordance with the specification. However, a minimum cover of 250mm back fill material shall be provided at the top of foundations below the blinding to cast against.

6.5. Efficient site drainage during and after construction of the project should be provided by the contractor.

6.6. Site inspection by a qualified engineer should be carried out after completion of the excavation works and after preparation of the proposed foundation level to ensure that the contact surface is free from any loose/soft layer and properly prepared for the foundation.

7. Concrete workmanship

7.1. All concrete without plaster shall be fair finish unless noted otherwise.

7.2. All concrete surface to have plaster are to be hacked to have an adequate surface key

7.3. All concrete is to be cured by an approved method-water pounding or curing compound.

7.4. All types of construction joints in concrete shall be at a specified locations and approved by the engineers.

7.5. All substructure concrete works shall be protected with water proofing as per standard details & specifications.

7.6. All concrete shall be compacted using a mechanical vibration process.

7.7. 25x25mm chamfers to external corners and edges shall be provided in accordance with specifications and directed by the engineer.

8. Structural steel

8.1. All structural steel works shall be in accordance with bs 5950 parts 1 to 9 or ec-en3.

8.2. Maximum dimension of holes shall be in accordance with bs 5950 : part 1 : 2000 table 35, unless indicated otherwise.

8.3. The contractor shall provide whatever temporary ties or bracing necessary for a safe and proper erection of the steel structures.

8.4. Welding shall comply with bs en 1011-1: 2009, bs en 1011-2 : 2001 and bs bs en 1011-8 : 2004.

8.5. Contractor shall do a detailed design for aluminum shades and to submit full design calculations and detailed shop drawings for all steel sections and connections to the engineer for approval prior to commencement of fabrication.

8.6. All rolled products and plates shall conform to bs en 10025-2. Cold form welded structural hollow sections shall conform to bs en 10219-1. Hot finish hollow sections shall conform to bs 10210-1 unless noted otherwise on drawings.

8.7. All connections shall be made with minimum 2nos. Galvanized grade 8.8 to bs 3692 with a minimum diameter of 20mm and minimum yield strength of 627mpa and minimum ultimate strength of 765mpa and electrodes to bsd 639, unless noted otherwise.

8.8. Unless noted otherwise on the drawings, all connections shall be in accordance with the following minimum requirements:

- A) all welds shall be at least 6mm continuous fillet welds all around.
- B) all structural bolted connections should be galvanized minimum 85 micron and with a minimum of 2 bolts per connection. Purlin bolts shall be in accordance with the suppliers recommendations.
- C) all gusset plates shall be at least 4mm thick.
- D) all cap plates shall be at least 4mm thick.
- E) all base plates shall be at least 4mm thick.

8.9. As minimum all structural steel members shall be shot blasted to sa 2.5, galvanized, primed & painted as below unless noted otherwise:

- A) hot galvanization (dft 200micron)
- B) primer coat to contain 2 coats of zinc rich epoxy primer (dft 75 micron)
- C) top coat to contain 2 coats of polyurethane enamel paint (dft 125 micron)

8.10. All structural steel work shall be corrosion protected in accordance with the structural specifications.

8.11. All steel should conform to the following:

- A) shs, rhs and chs sections bsen 10210 s275 fy=275mpa
- B) all angles and channels u.n.o bsen 10025 s275 fy=275mpa

8.12. All steel columns to be central on grids or equally spaced between grids unless noted otherwise.

8.13. All steel beams to be central on grids or equally spaced between grids unless noted otherwise.

8.14. All steel dimensions are to center line of section unless noted otherwise.

8.15. All bracing is to be set out on the centroids of bracing members and on the center line of beams and columns unless noted otherwise.

8.16. Where bracing is shown offset from center of members the contractor shall design and provide all necessary stiffeners.

8.17. Contractor to provide all leader railing as required to support free edges not trimmed with cold formed or mild steel work. To be provided in accordance with architect’s drawings.

8.18. Location of any connections, splices not shown in the drawings shall be submitted with design for engineer’s approval. No splices shall be made unless shown in the drawings and as approved by the engineers.

8.19. Contractor shall do a full coordination between architecture and structural drawings for the steel support for shade elements, locations and sizing connections with structural concrete elements and sections. Care shall be taken to prevent dissimilar metal corrosion.

9. Masonry blocks

9.1. Design and construction of all blocks shall comply with bs 5628 : parts 1.2 & 3 : 1992 or en-ec6. The contractor shall submit a construction method statement prior to commencing the works.

9.2. Wall ties in accordance with bs 1248 - cp 121 part 1.73.

9.3. All block wall joints to manufacturers specifications.

9.4. All block work walls are to be considered as non-load bearing partitions unless noted otherwise in drawings

9.5. Block walls shall be reinforced horizontally and vertically as per manufacturers requirements.

9.6. Masonry wall mechanical properties	
young's modulus	= 3.5e+006 kn/m <sup>2</sup>
poisson's ratio	= 0.25
density	= 20kn/m <sup>3</sup>
min.compressive strength	= 3.5 mpa

10. Design & loading

10.1. Consultant design  
design and construction of reinforced concrete structural members, shall be in accordance with bs8110 & ec-en2 and the structural steel members to bs 5950 & ec-en3.

10.2. Contractor design  
the contractor is responsible for the design of all temporary works. (shoring for excavation, signage... Etc) and the following items of permanent secondary works. (subjected to engineers review and approval)

- a) precast concrete elements
- b) architectural facade and support steelwork
- c) non load bearing feature columns
- d) all secondary steel works
- e) structural steelwork connections
- f) structural support for mep services
- g) shade structures
- h) balustrade and crash barrier
- i) structural glass
- j) interior signage

the design of the primary structure is considering the interfaces with these structures) loading reactions, opening...etc.) And were detailed to accommodate these elements into the design.

the contractor shall submit a full detail design for the wall and boundary wall foundation, also the contractor to do

full coordination between the structural foundation for villas (including the water tanks, and the boundary wall for clashes, the contractor shall produce shop drawings for the boundary walls for engineer’s approval.

- 10.3. Loading
  - a) superimposed (dead loads & live loads) as per bs 6399 or en-ec1.
  - b) self-weight & densities as per bs 648 or en-ec1.
  - c) wind loads as per bs 6399 or en-ec1 (mean wind speed = 25m/s).

11. Timber

11.1. All timbers shall be in accordance with bs 5268 or ec-en5

11.2. All timber members sizes are indicative. Contractor shall coordinate with supplier and submit detail designs for all prefab timber structure for approval.

General Notes 02

PROPOSED \_\_\_ STOREY BUILDING AT

Multipurpose Hall, Sh Foakaidhoo

Client: Ministry of Education, Maldives

03/09/2020

Architect: Fathmath Ihudha Amir  
Engineer: Adam Madheeh  
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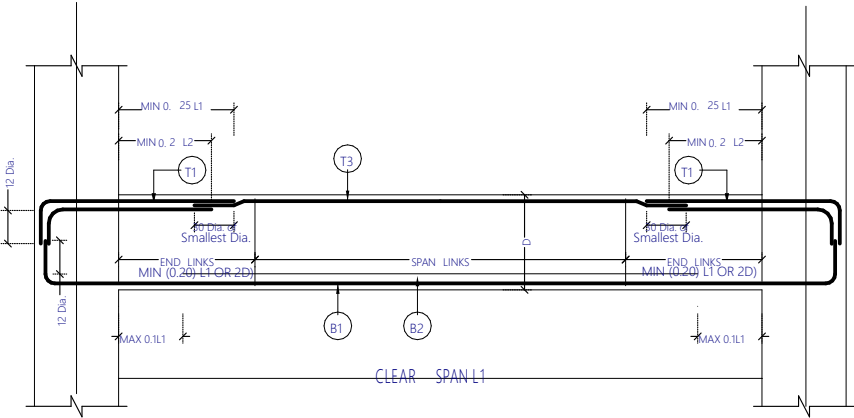
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Notes:

1. First stirrups location shall be s/2 from the face of the column/ support.
2. Place one b bar in each bottom corner and one t bar in each top corner of the stirrup cage.
3. Condition shown is at columns. Where beams and girder intersect, use typical interior girder section.
4. All bottom bars and top bars shall be placed in one layer unless two layers are noted in the beam schedule. Where to layers are noted provide 25 mm clear between layers. If two layers are noted place bar b1 above bar b and bar t above t1.
5. Length of exterior top bars are given only when straight bar occurs otherwise hooked bars are required.
6. Where a member is supported by a column, but has another member running perpendicular to it at the same column, the first stirrup spacing shall start from the face of the column and not from the face of the transverse beam.
7. Top & bottom reinforcement lapping of both main rebars can be ignored if the main rebars at left and right side of lapping location are identical.
8. For 'column width less or equal 2m l\*="column width'/2. For 'column width' greater than 2m, l\*=1m

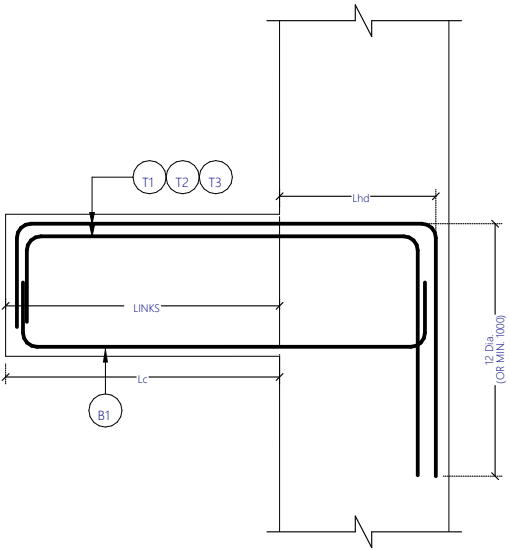
Supplementary abbreviations

- B1 - continuous bottom bars.  
B2 - additional bottom bars  
CE - cantilevered end  
D - depth of member, mm  
EE - each end  
EF - each face  
FL - full length  
EW - each way  
H - aci standard hook  
ITB - interior top bar  
LE - left end  
LG - length  
P - paired stirrups  
RE - right end  
REM - remainder  
S - side bars  
T1 - top bars at internal supports  
T2 - top bars at mid-span  
T3 - top bars at end support  
W - width of member, mm



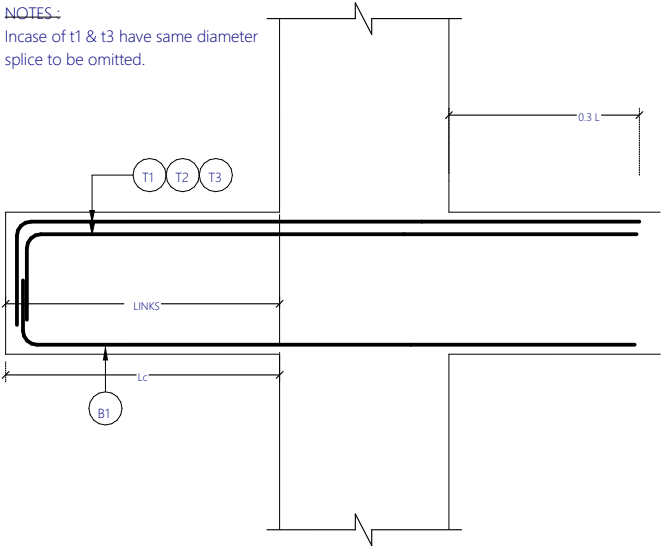
SIMPLE BEAM DETAILS

NTS



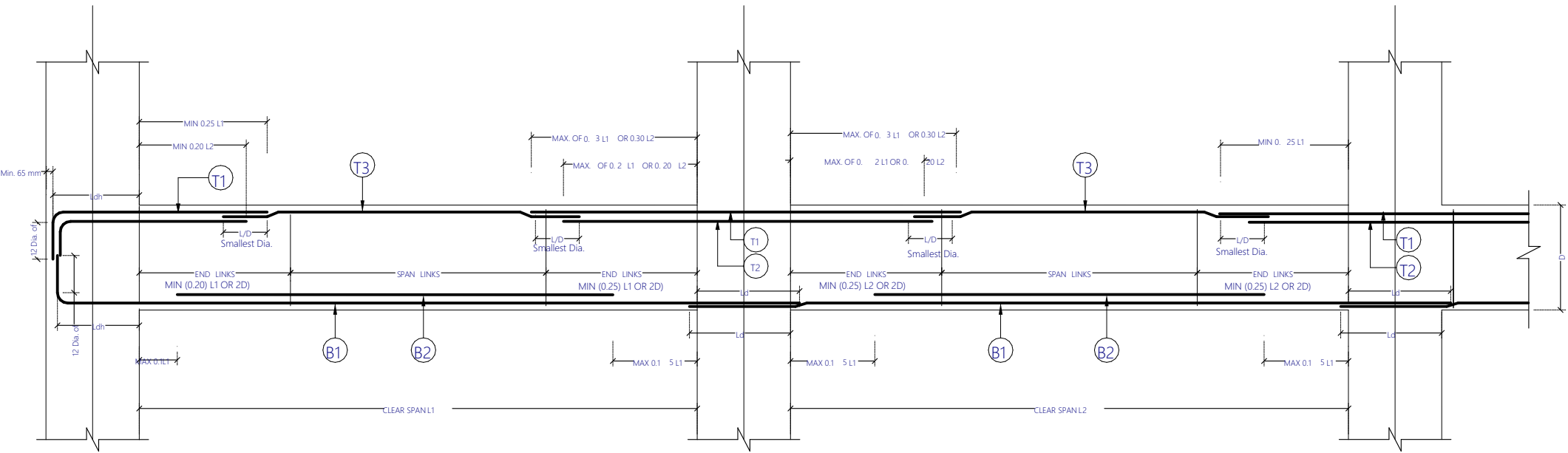
TYPICAL CANTELEVER BEAM FROM COLUMN

NTS



TYPICAL CANTELEVER BEAM CONTINUOUS

NTS



CONTINUOUS BEAM DETAILS

NTS

General Notes 03

1:100

PROPOSED \_\_\_ STOREY BUILDING AT

**Multipurpose  
Hall,  
Sh Foakaidhoo**

Client:

**Ministry of Education,  
Maldives**

03/09/2020

Architect: Fathmath Ihudha Amir  
Engineer: Adam Madheeh  
Drawn By: Fathmath Ihudha Amir



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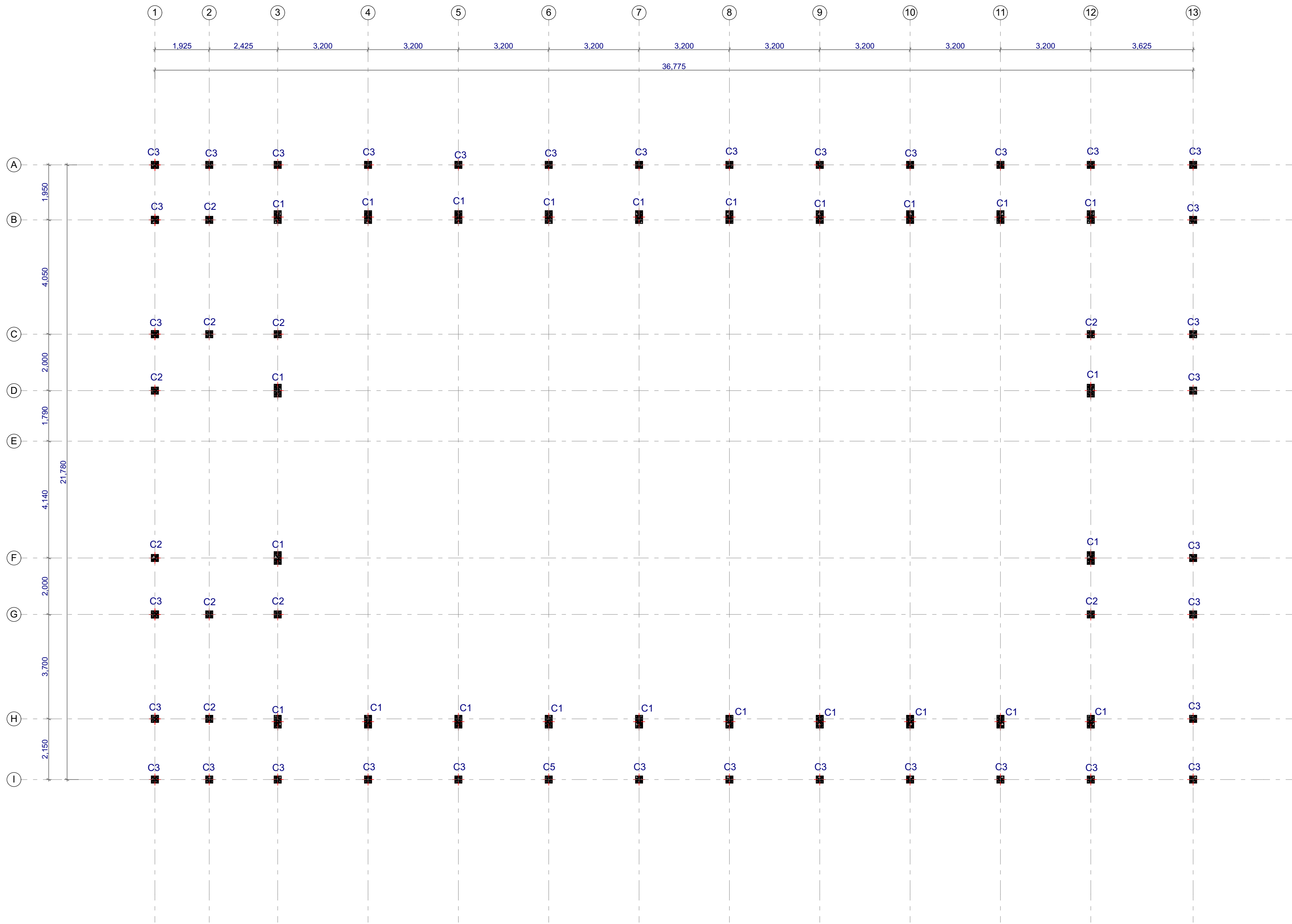
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Column Setting out Plan

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PROPOSED 02 STOREY BUILDING AT  
**Multipurpose Hall, Sh Foakaidhoo**

Client: Ministry of Education, Maldives

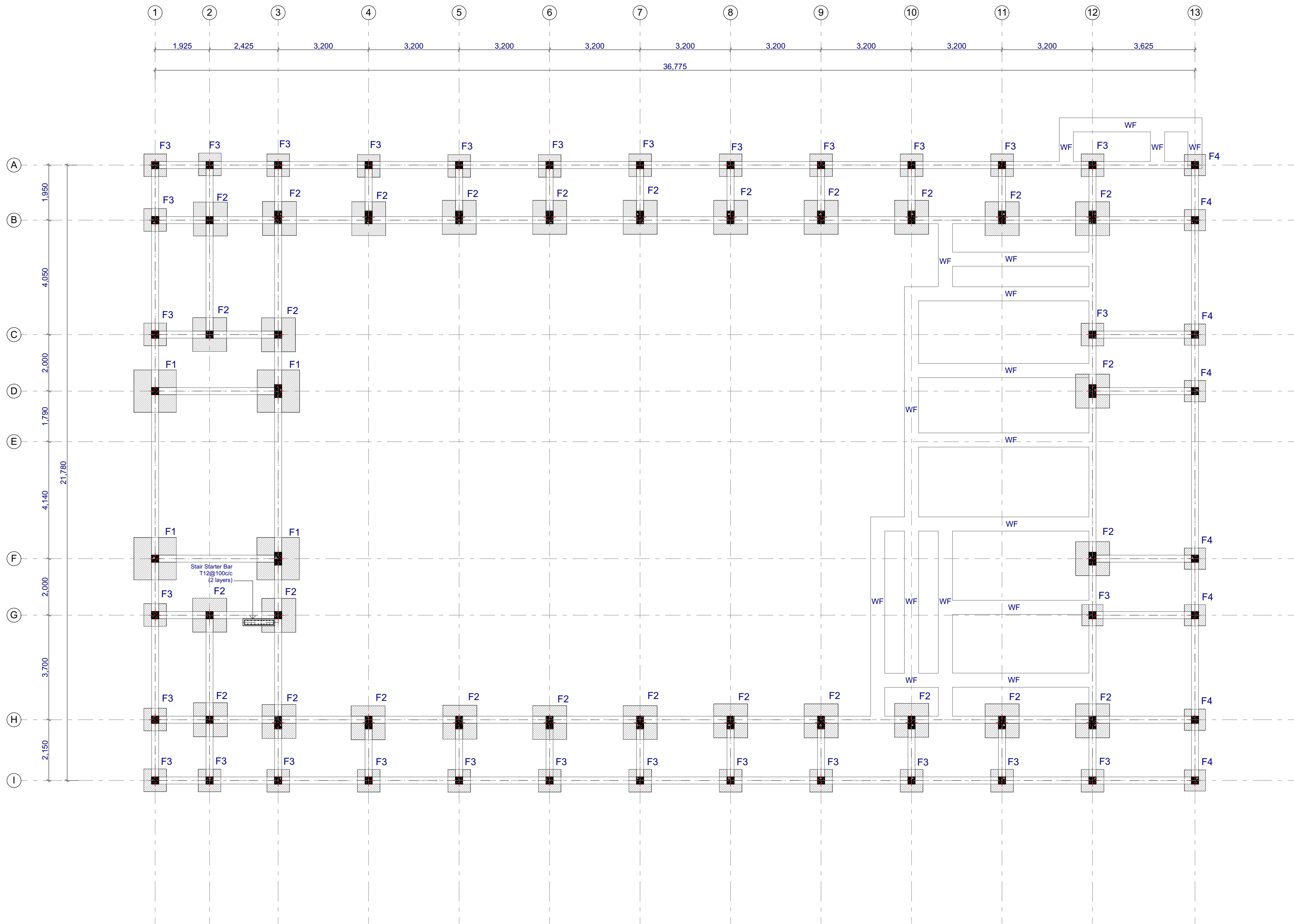
03/09/2020

Architect: Fathmath Ihudha Amir  
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Drawn By: Fathmath Ihudha Amir

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Foundation Notes:			
	Dimensions	Reinforcement	Foundation Depth
F1	1500X1500X350	T12@ 125C/C B/W (b)	1250mm
F2	1200X1200X350	T12@ 125C/C B/W (b)	1250mm
F3	800X800X300	T12@150C/C B/W (b)	1200mm
F4	750X750X300	T10@150C/C B/W (b)	1200mm

All tie beams are 'TB' (unless stated)  
Ground Slab = 100mm thick RC slab on fill reinforced with T10@200C/C (B/W)

PROPOSED 02 STOREY BUILDING AT

Multipurpose  
Hall,  
Sh Foakaidhoo

Client:  
Ministry of Education,  
Maldives

03/09/2020

Architect: Fathmath Ithudha Amir  
Engineer: Adam Madheeh  
Drawn By: Fathmath Ithudha Amir



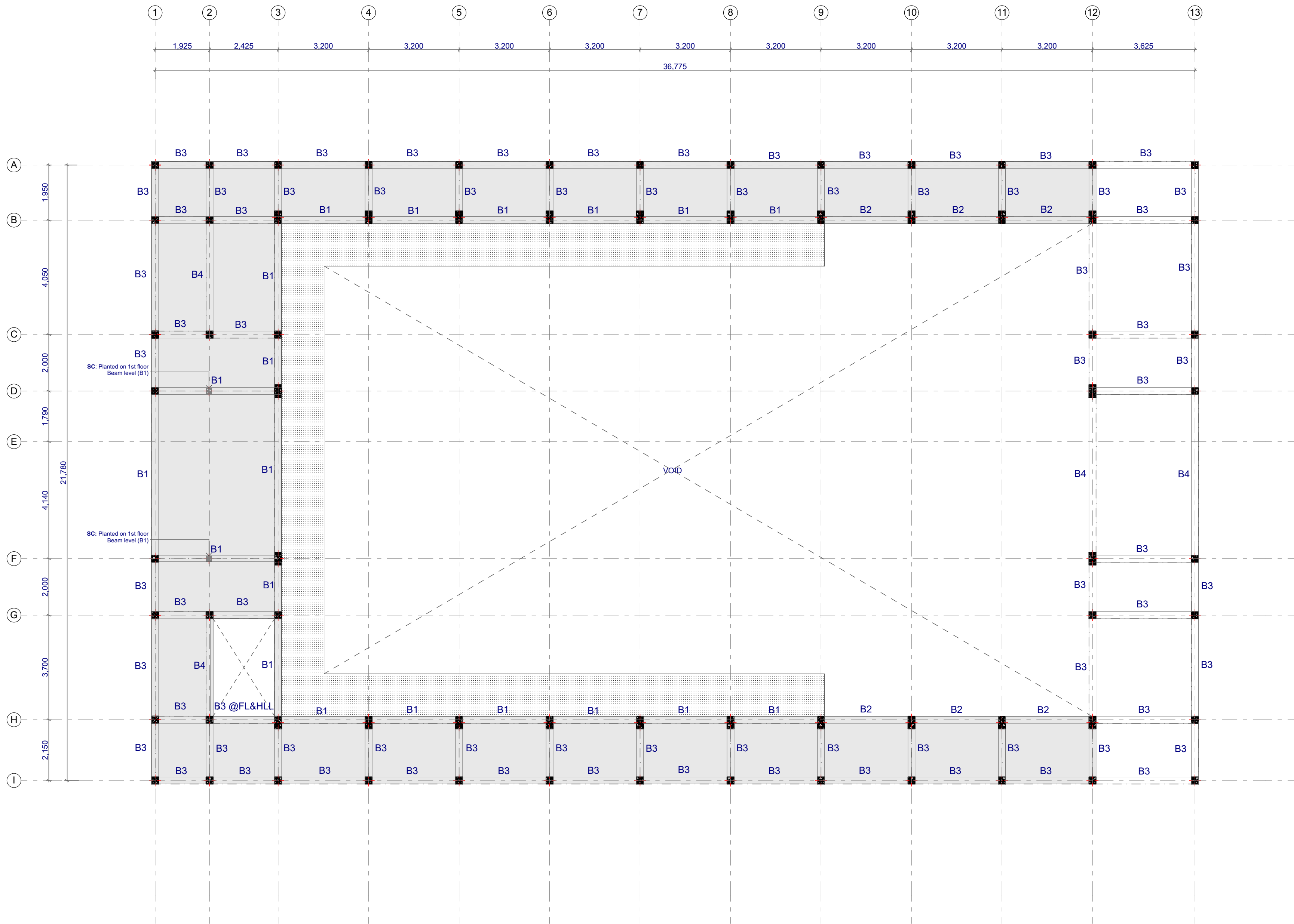
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Foundation Plan

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1st Floor Beam Plan

1:100

PROPOSED 02 STOREY BUILDING AT

**Multipurpose Hall,  
Sh Foakaidhoo**

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Ministry of Education,  
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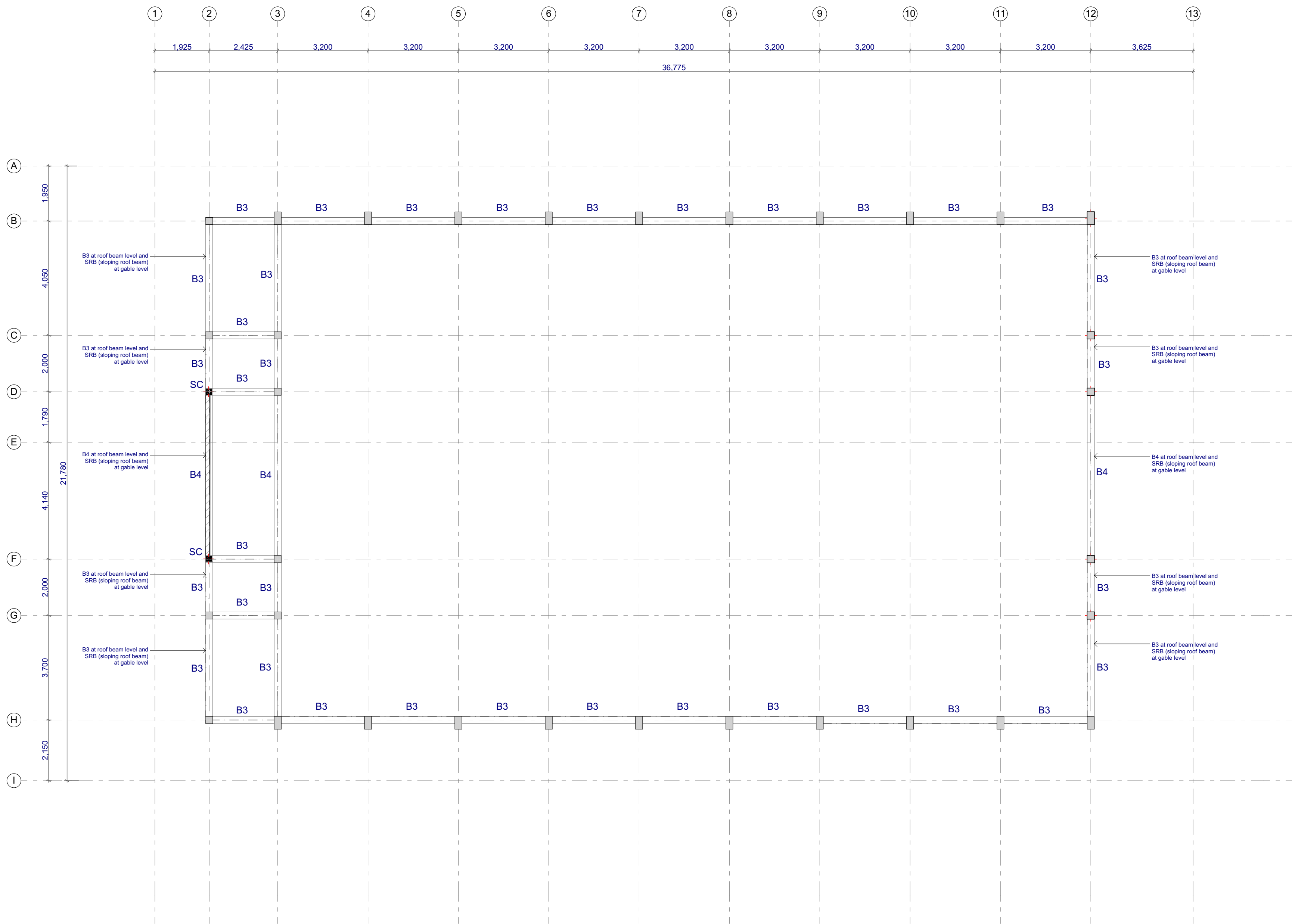
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Roof Beam Plan

1:100

PROPOSED 02 STOREY BUILDING AT

**Multipurpose  
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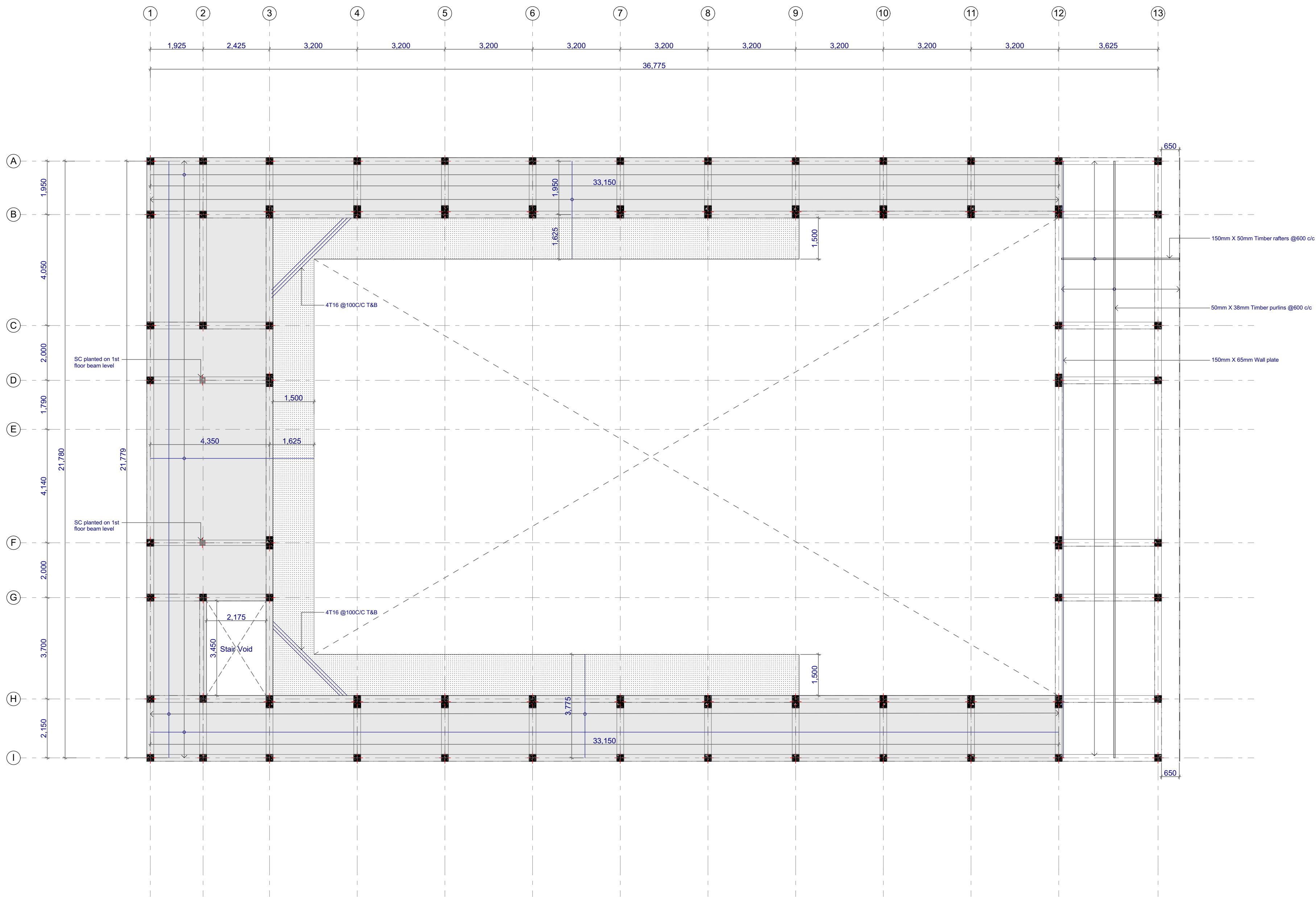
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Notes:

- Slab Thickness: 160mm
- Slab Thickness: 150mm

Bottom Reinforcement: T10@150C/C B/W (Not shown)  
Top Reinforcement: T12@100C/C (As shown, unless specified)  
Distribution steel: T12@100C/C (Unless specified)  
Reinforcement discontinuous at voids

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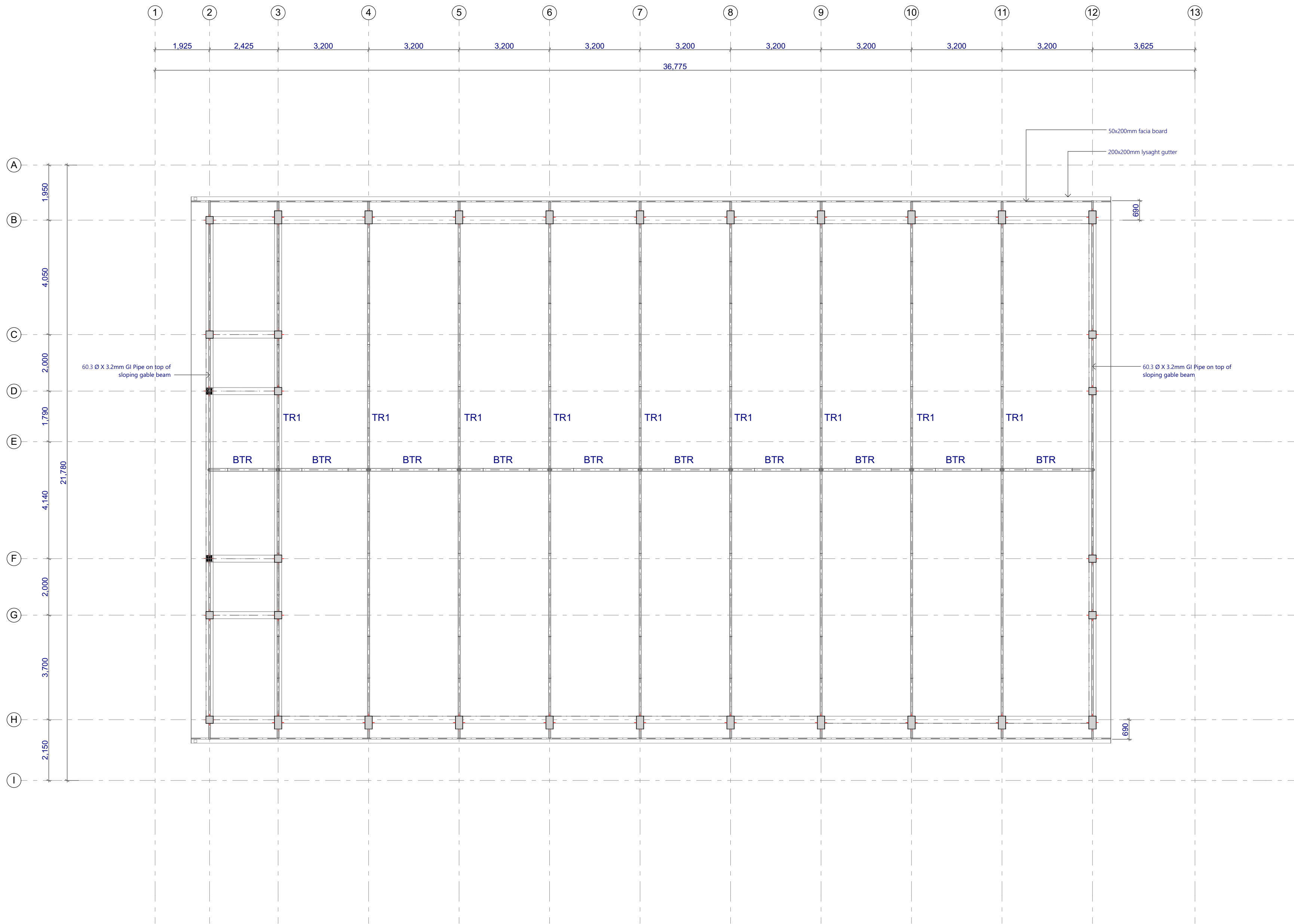
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1st Floor Slab Reinforcement Plan

1:100



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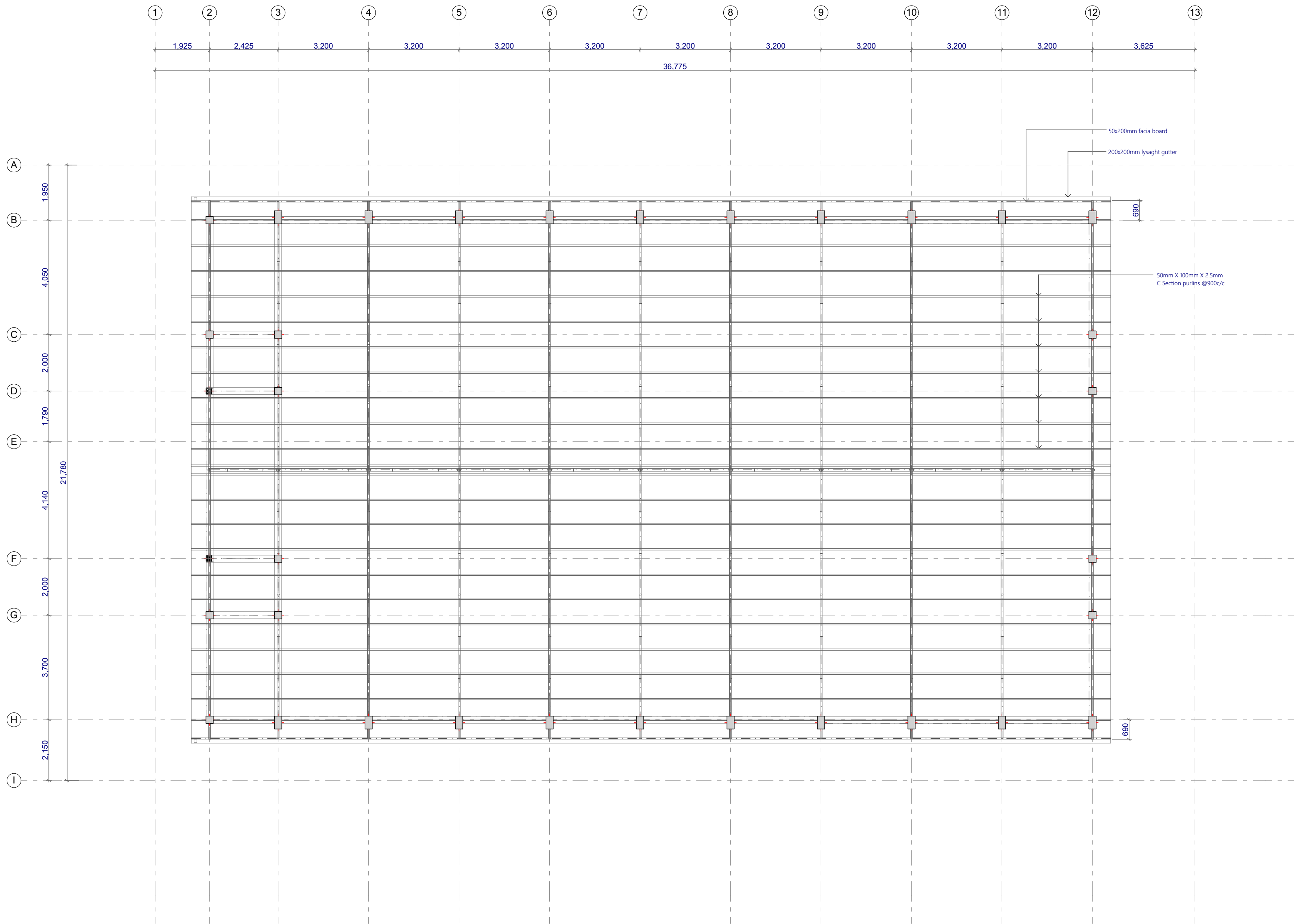


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Truss Plan

1:100



PROPOSED 02 STOREY BUILDING AT

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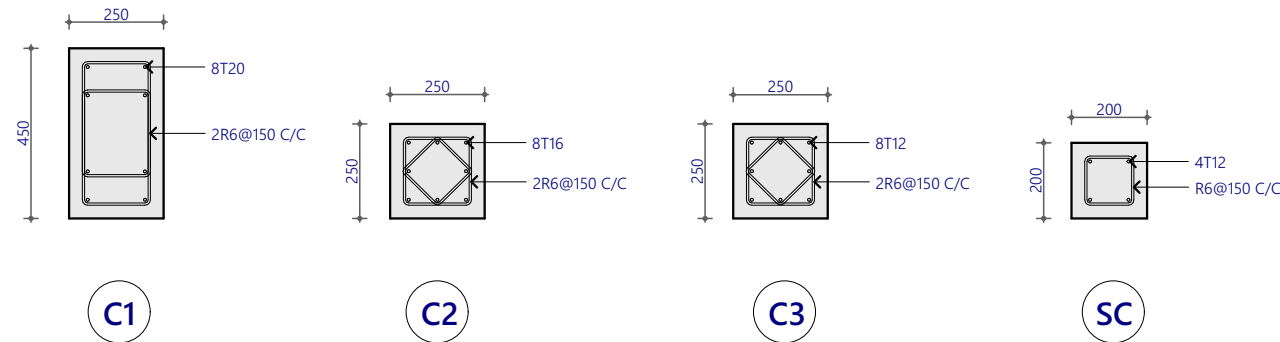
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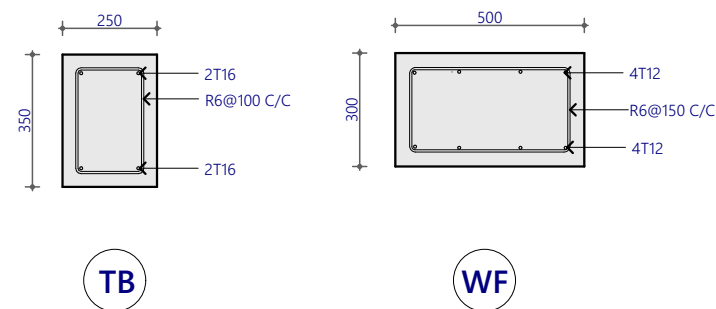


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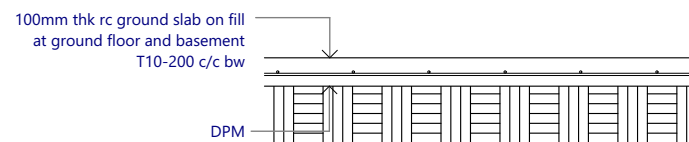
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**Column Details**  
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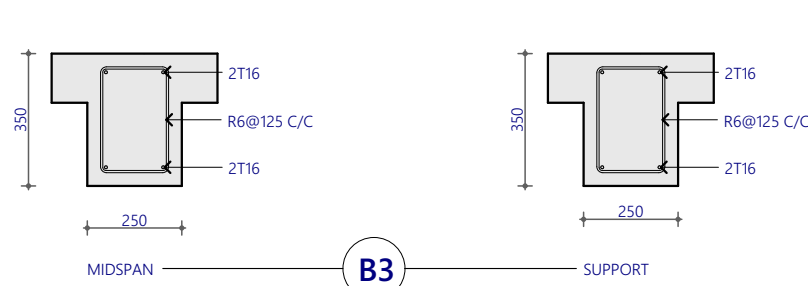
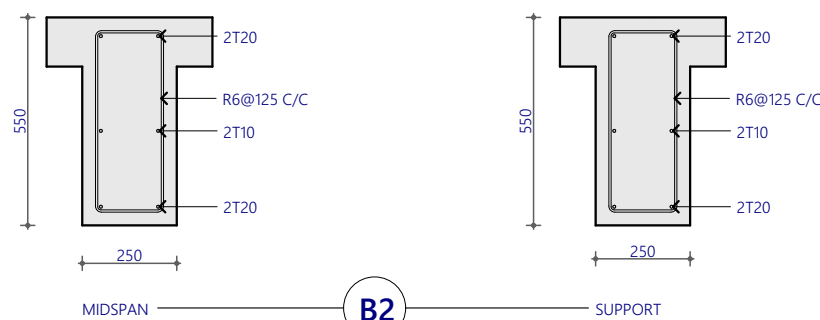
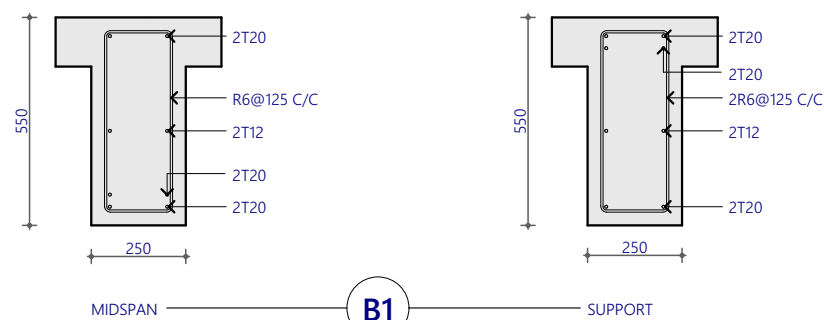
**Tie Beam Details**  
1:20



NOTE:  
All cover blocks shall be casted using grade C25/30 concrete with 5-10mm aggregates

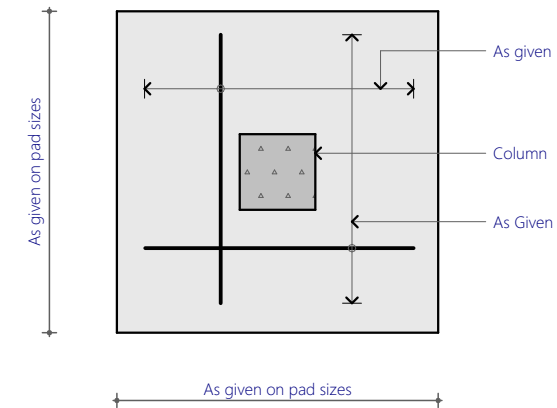
For slab, rebar spacer chairs spacing shall be minimum 1m spacing or 1no. per 1 sqm

**Typical Ground Slab Construction Detail**  
1:20

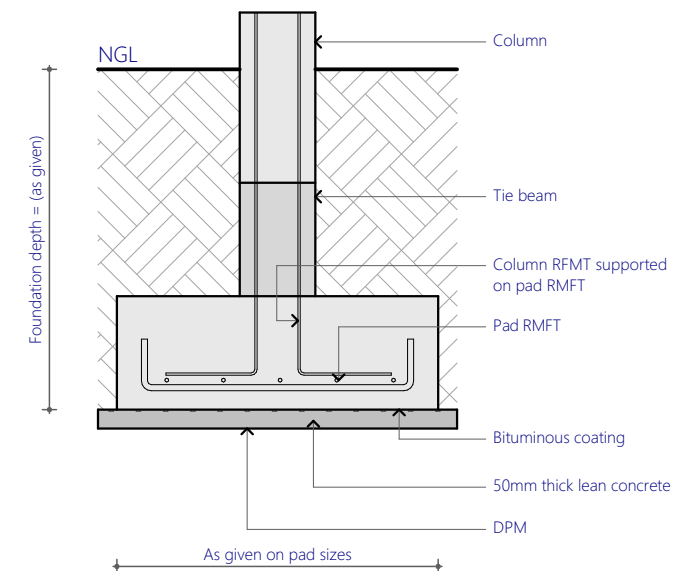


(Sloping roof beam cast on top of wall at gable level)

**Beam Details**  
1:20



**Plan View**



**Sectional View**

**Typical Footing Detail**  
1:20

PROPOSED \_\_ STOREY BUILDING AT

**Multipurpose Hall,  
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Client:  
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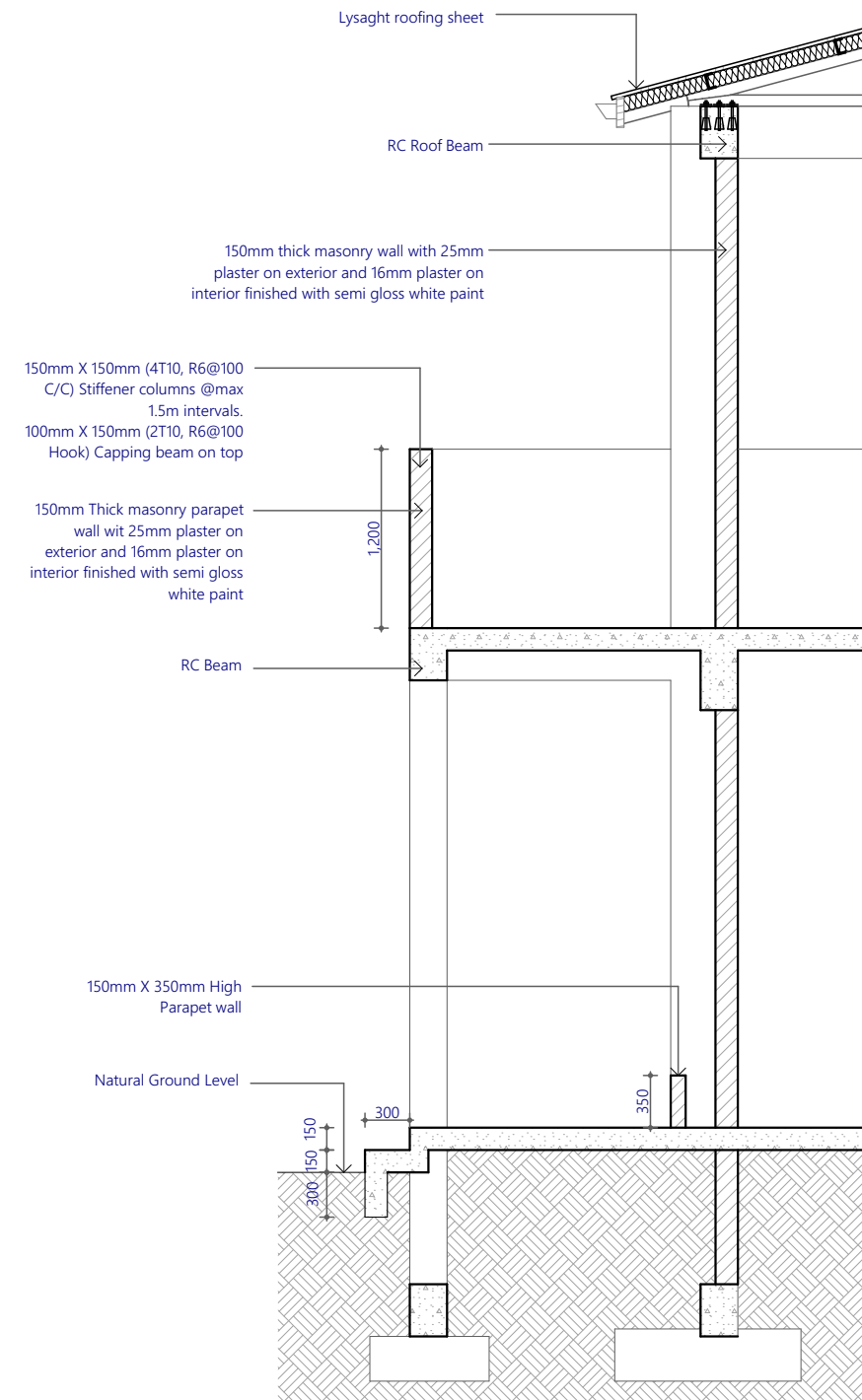
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Top to Bottom Detail

1:50

PROPOSED \_\_ STOREY BUILDING AT

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