

# PRIMARY HEALTH CARE UNIT (Black Cotton Soil)


GENERAL NOTES:



- 1. All dimensions are in millimeters unless otherwise stated.
- 2. All dimensions are to be checked and confirmed on site before commencement of any work.
- 3. Written dimensions overrides scaled dimensions.
- 4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

Program




Enhancing Community  
Resilience and Local  
Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Tittle

COVER PAGE

Designed By: H.A

Checked: F.E & G.O

Sheet #: 1/7

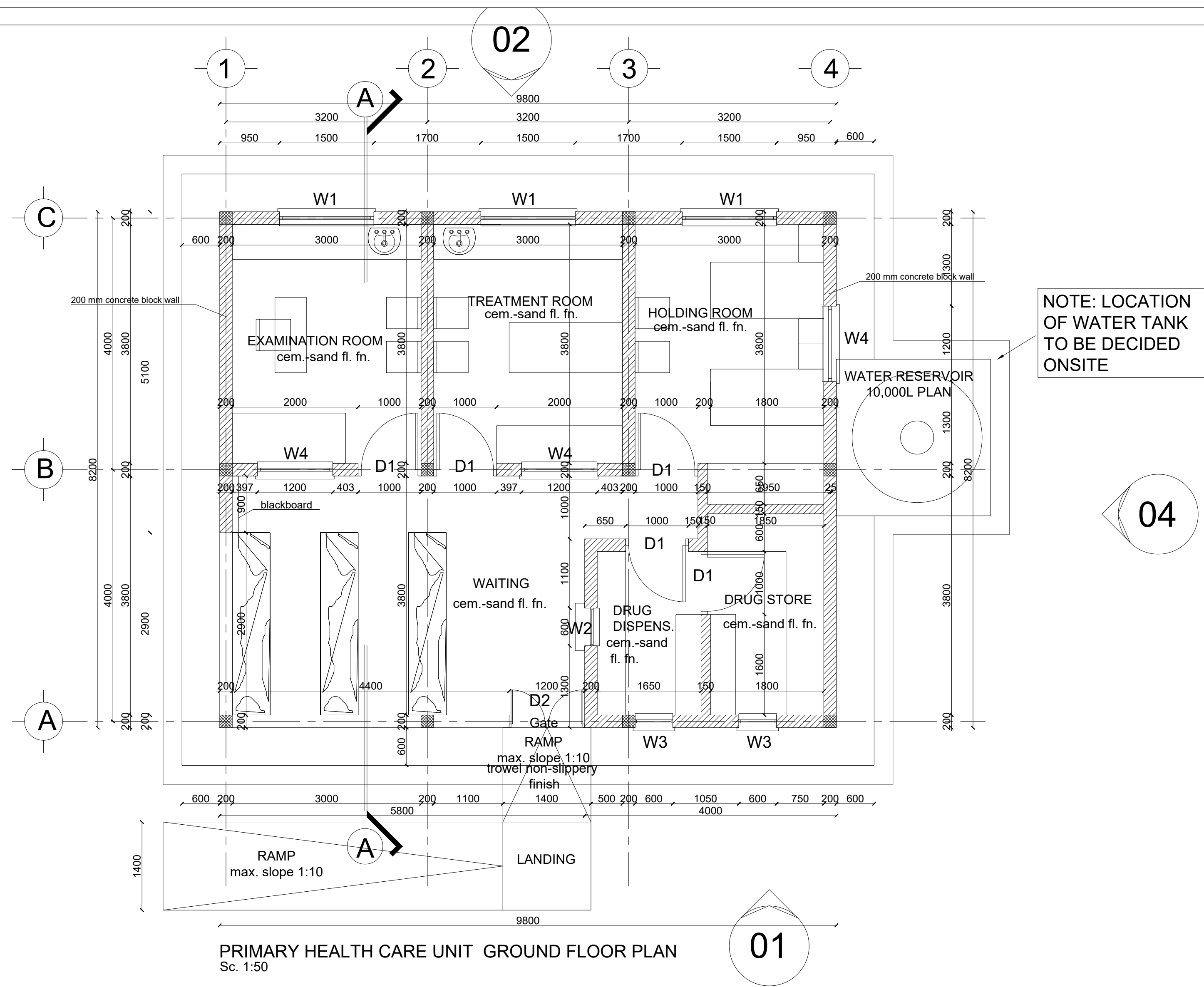
Date: 7 December 2023

Drawn by: H.A

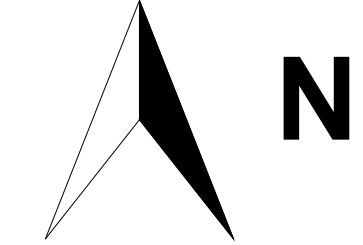
Approved: ----

Scale: AS SPECIFIED

Rev: 0

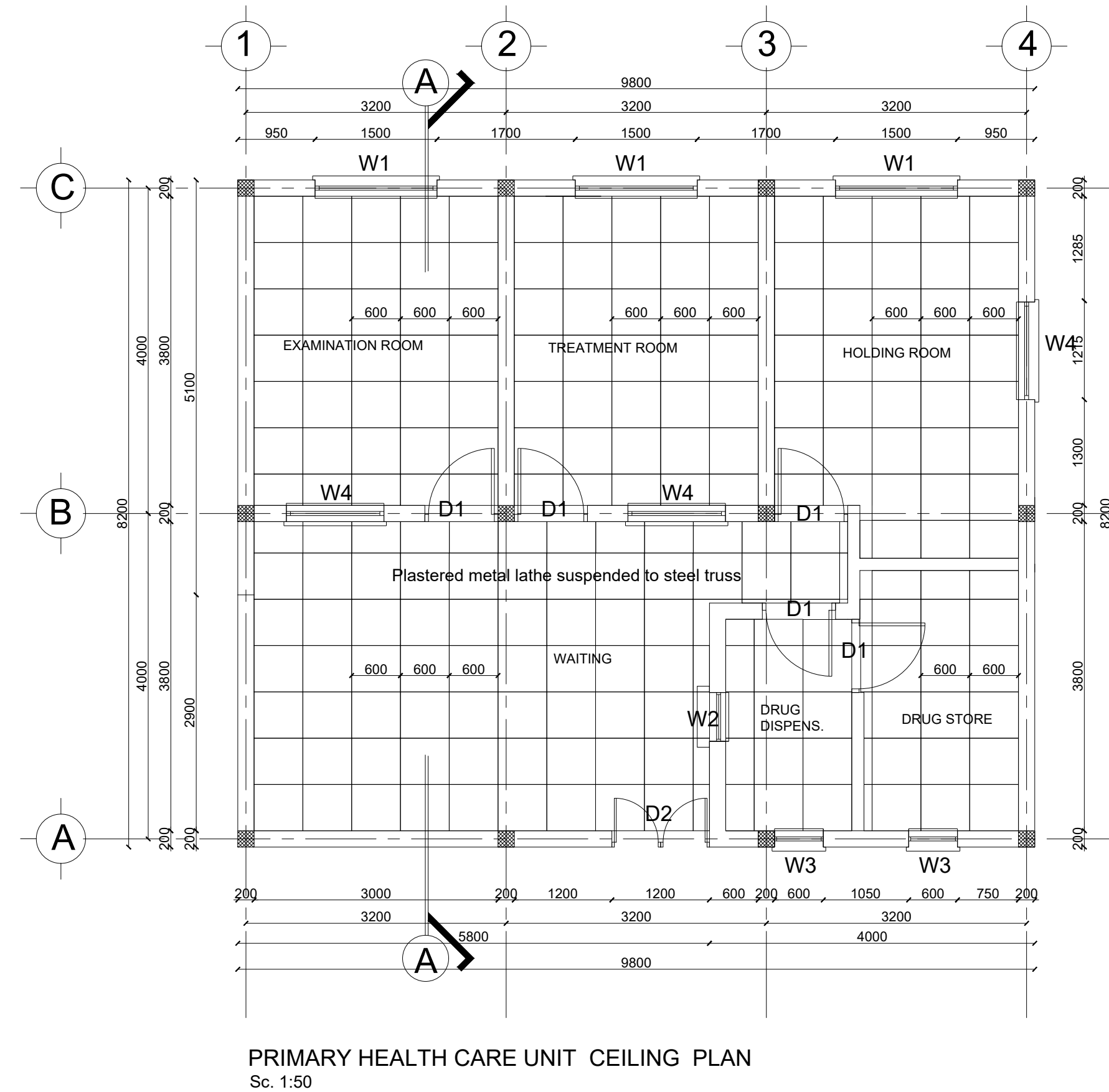
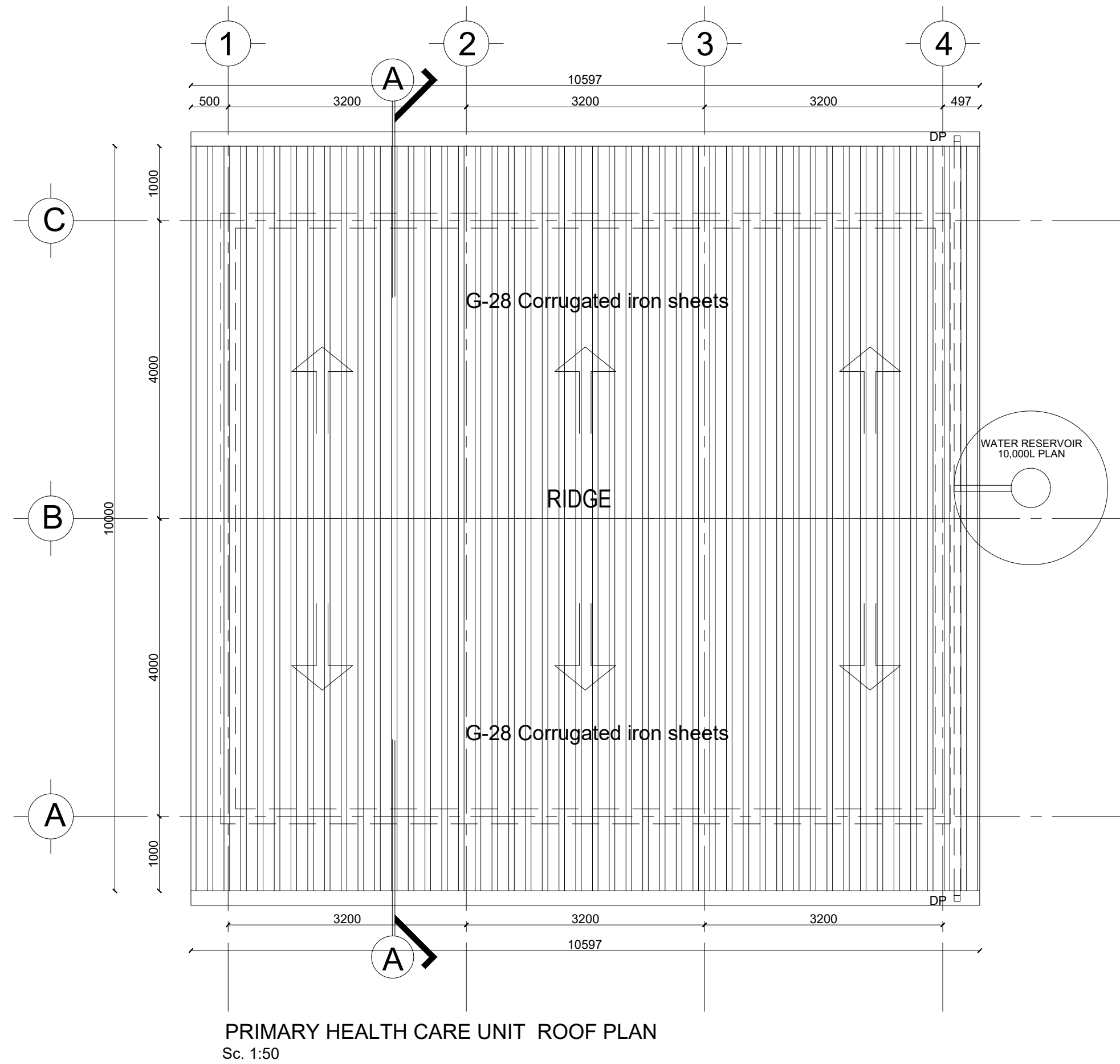


#### GENERAL NOTES:



1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
----	--/------	----	----
----	--/------	----	----
----	--/------	----	----
----	--/------	----	----



#### Program



#### Client:

GOVERNMENT OF SOUTH SUDAN

#### Implemented By:



#### Project:

PROPOSED PRIMARY HEALTH CARE UNIT

#### Drawing Title

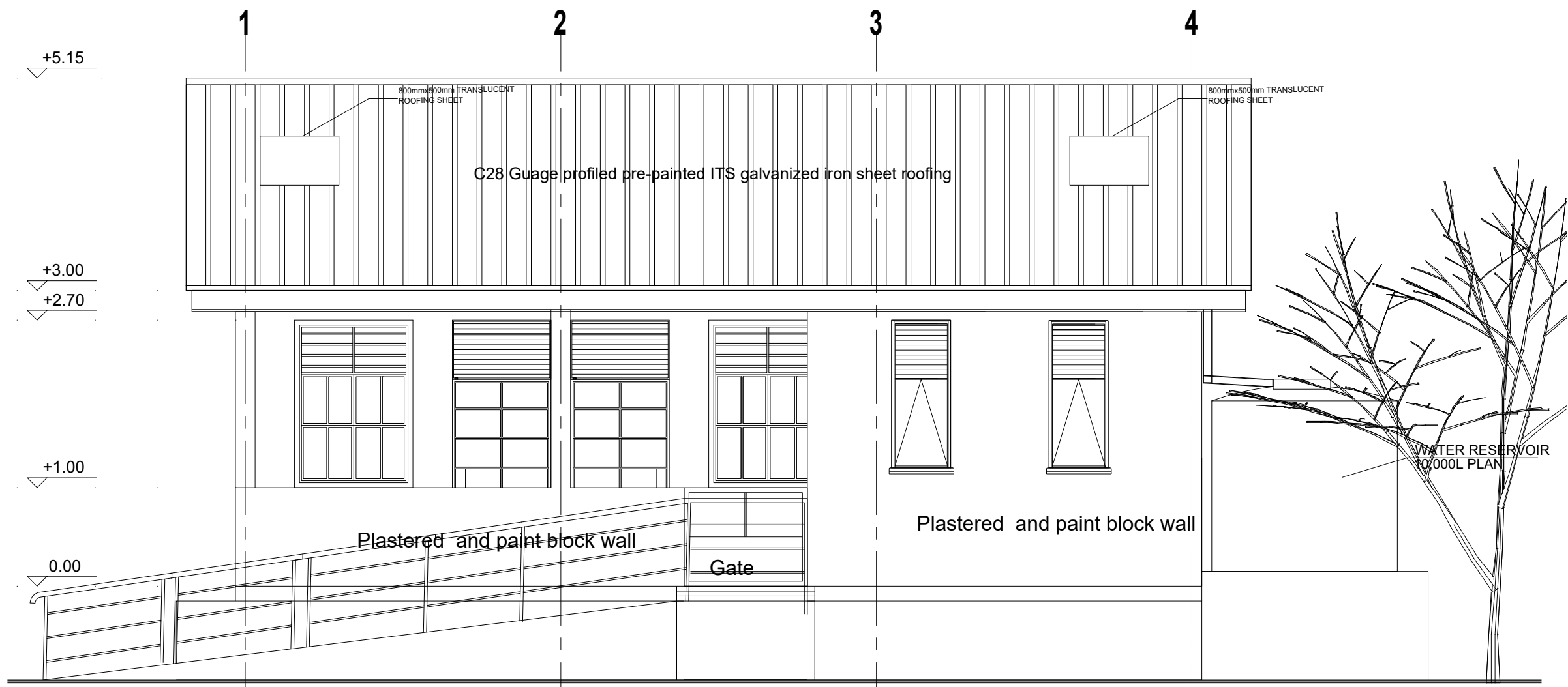
FLOOR PLAN, ROOF PLAN AND CEILING PLAN

Designed By: H.A. Drawn by: H.A.

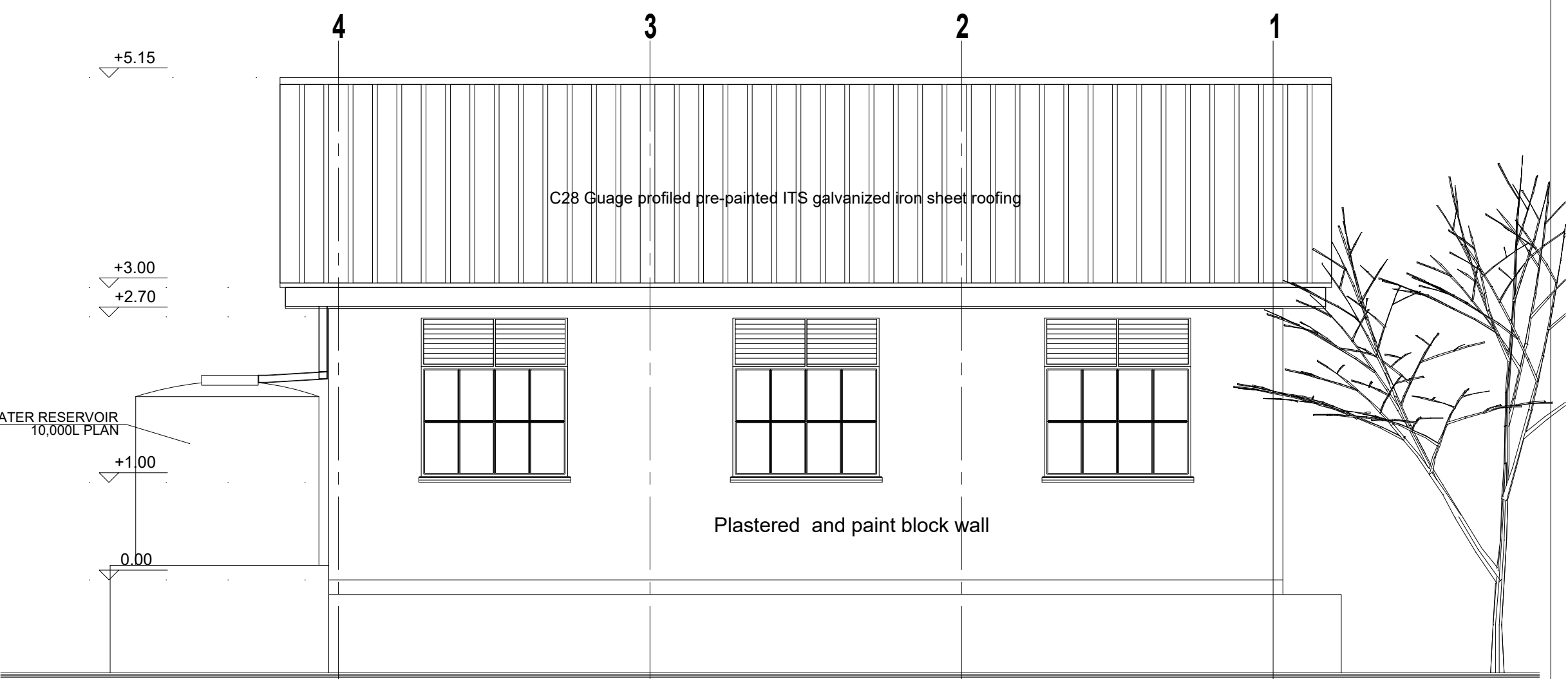
Checked: F.E & G.O. Approved: ----

Sheet #: 2/7 Scale: AS SPECIFIED

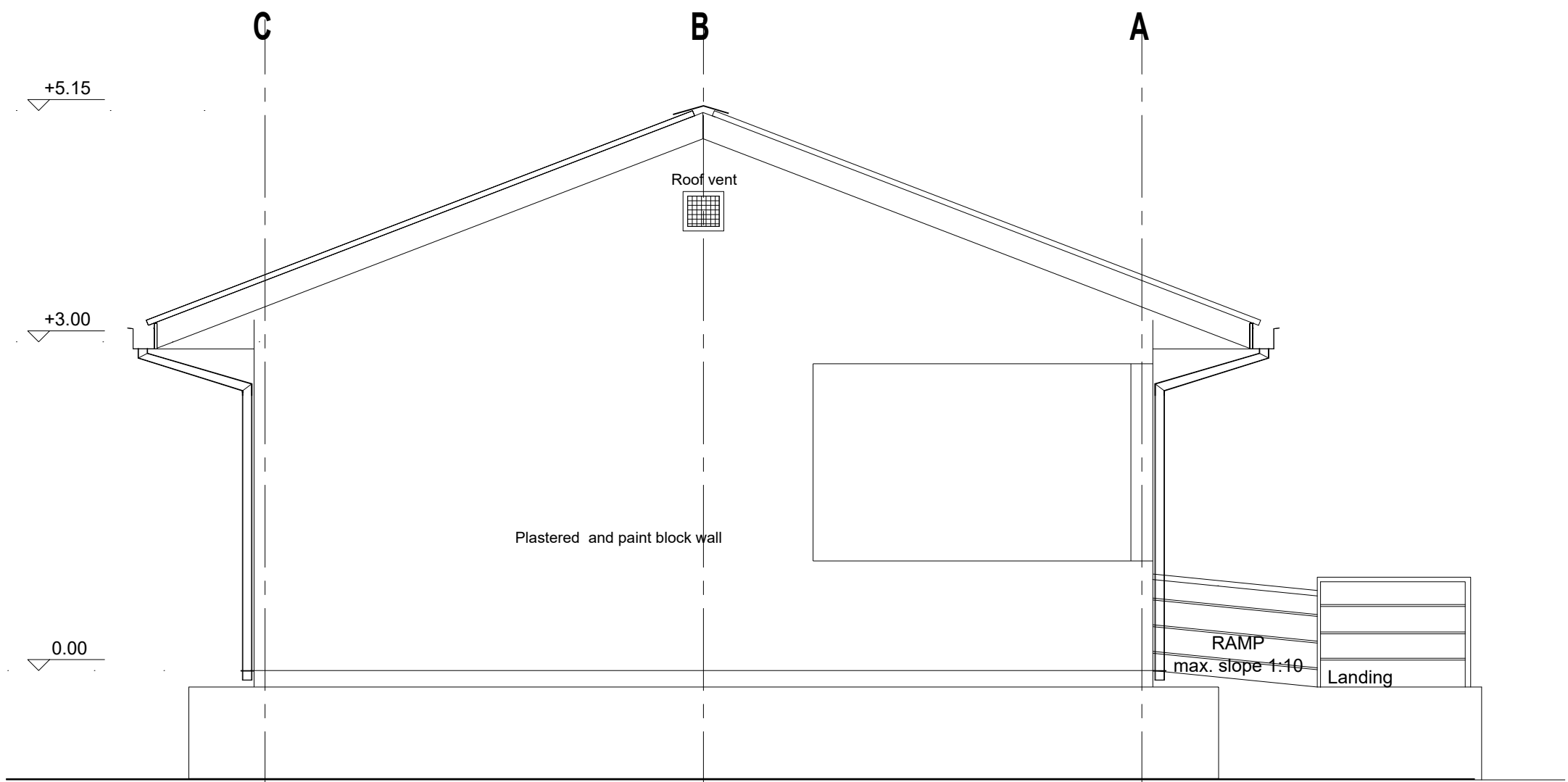
Date: 7 December 2023 Rev: 0



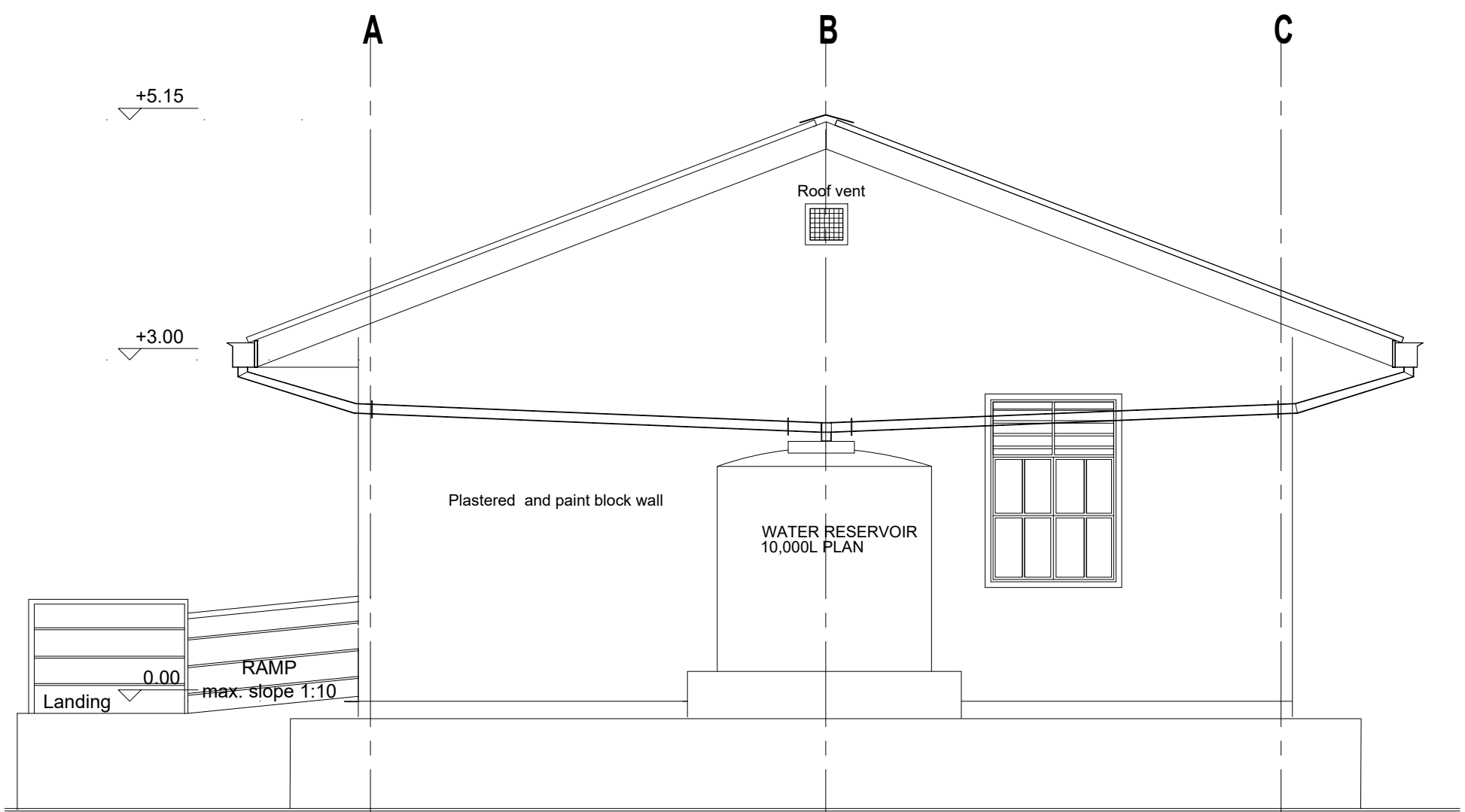
FRONT ELEVATION  
Sc. 1:50



REAR ELEVATION  
Sc. 1:50

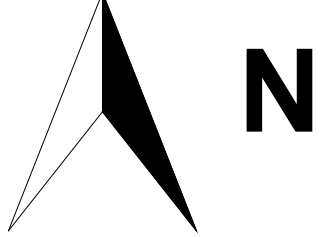


LEFT SIDE ELEVATION  
Sc. 1:50



RIGHT SIDE ELEVATION  
Sc. 1:50

GENERAL NOTES:



1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

Program

Enhancing Community Resilience and Local Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:

IOM  
UN MIGRATION

Project:

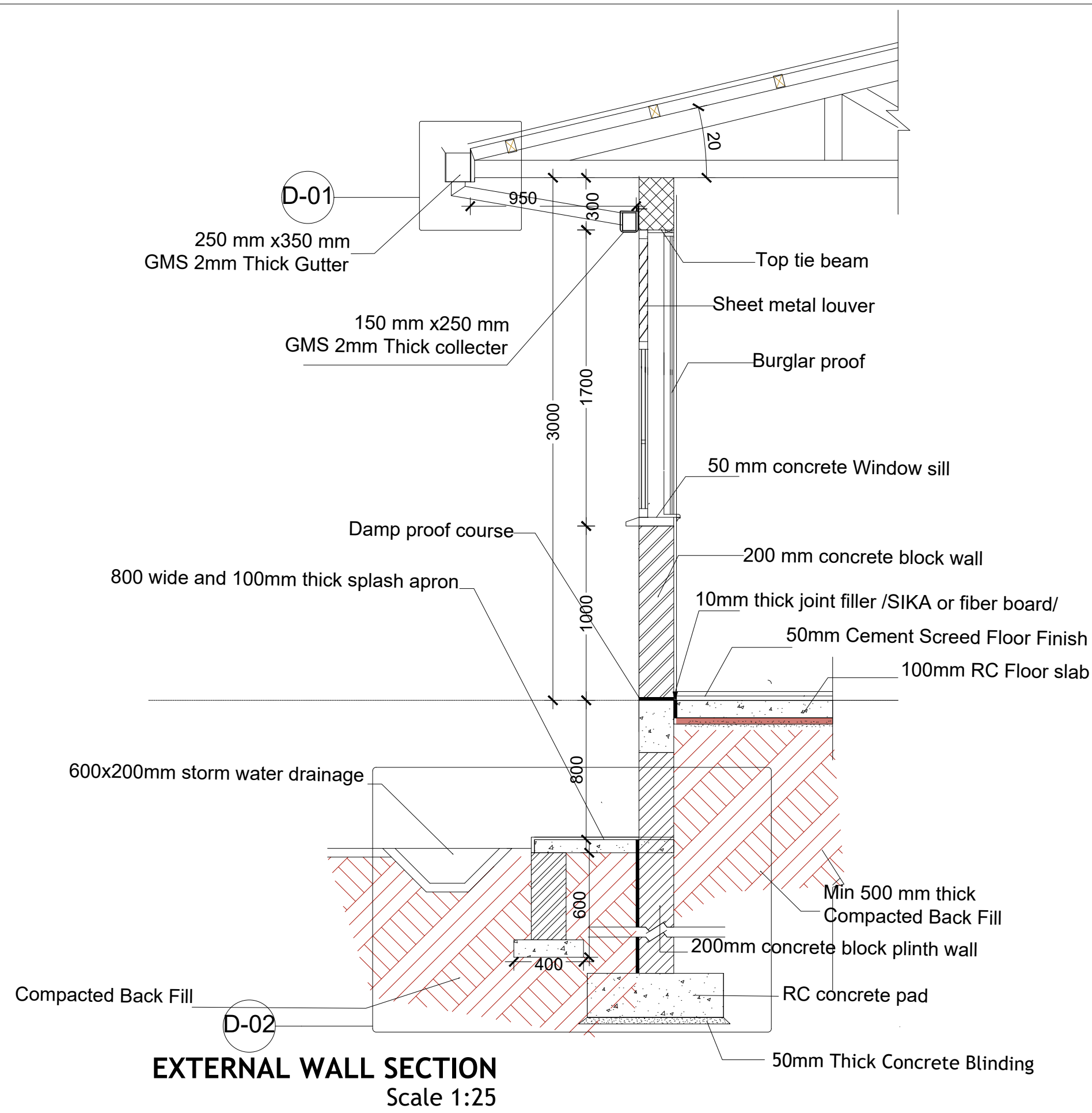
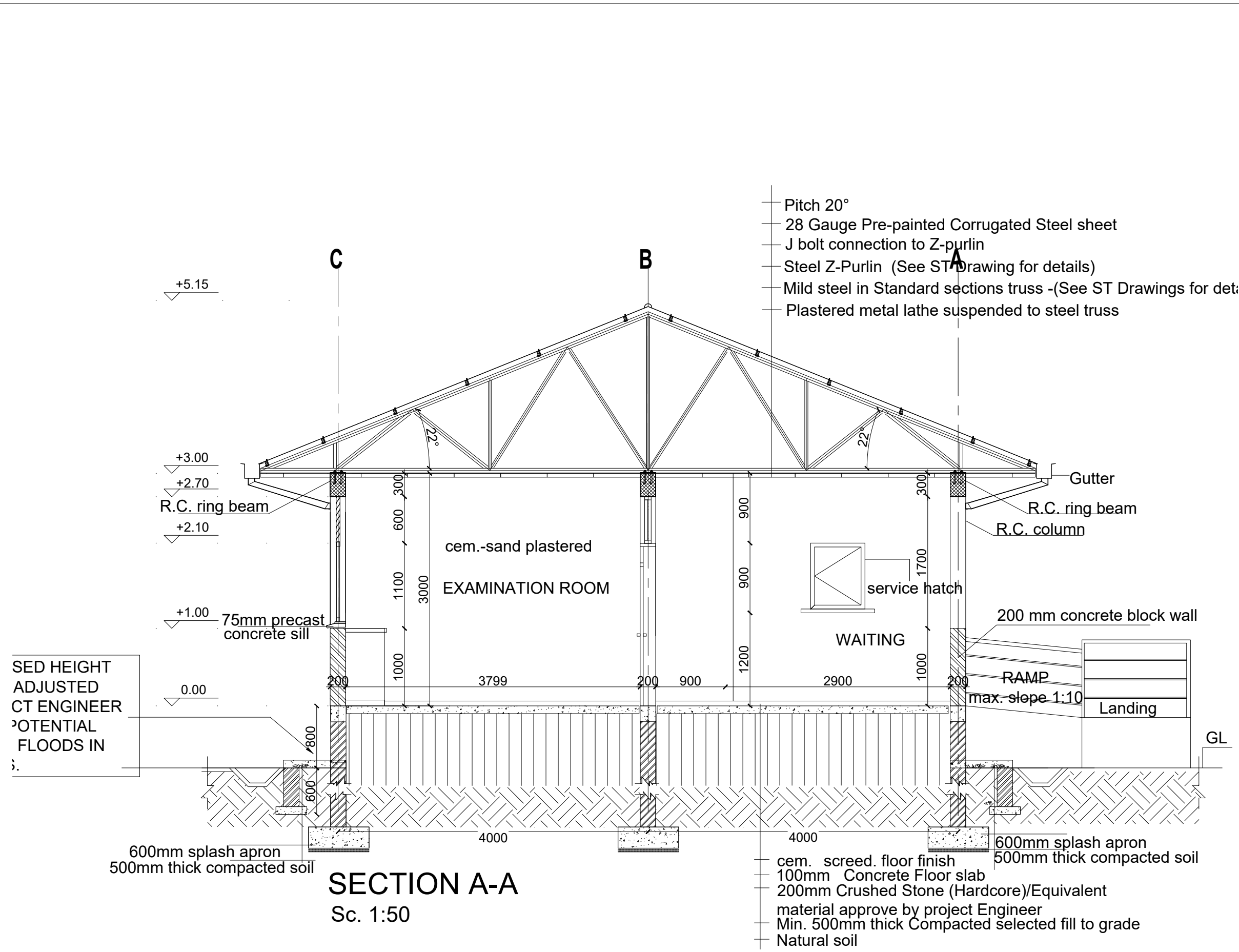
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

ELEVATIONS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 3/7	Scale: AS SPECIFIED
Date: 7 December 2023	Rev: 0





GENERAL NOTES:



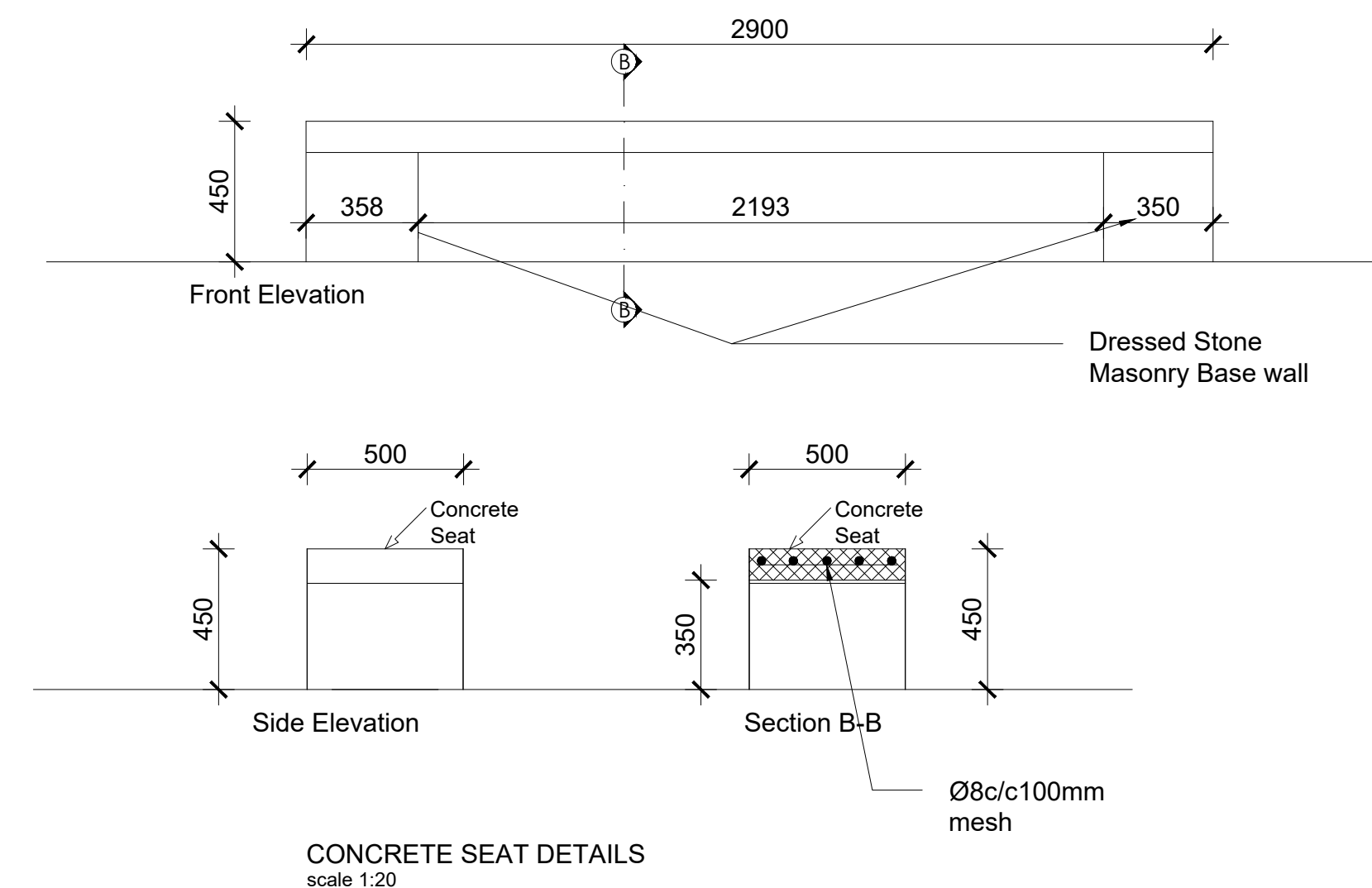
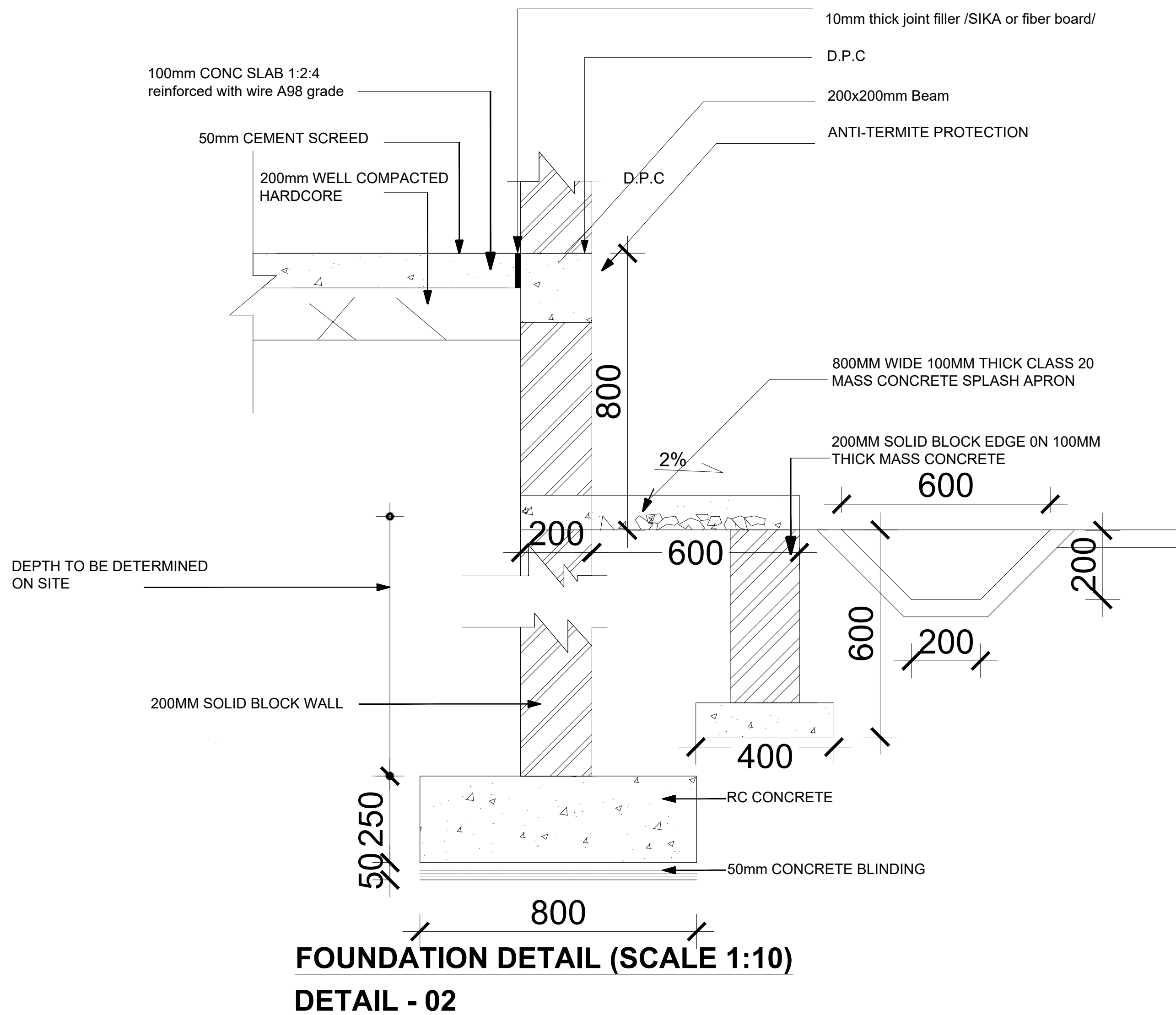
1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding



STRUCTURAL NOTES:

- I) Building shall be founded on load bearing stone masonry wall having a depth of 1800mm from the natural ground level with bottom of excavation compacted prior to laying the foundation wall.
  - II) Stone masonry foundation shall be placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 KN/m2. The top 500 mm soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.
  - III) Foundation trench excavation to be approved by the Engineer prior to the construction of the stone masonry foundation.
- IV) Material Specification
- A) Grade of Structural Concrete
- C-25 (Cube characteristics strength of 25 MPa) for columns and beams;
- C-20 (Cube characteristics strength of 20 MPa) for floor slab)
- B) Concrete reinforcement bar
- Grade 460 (Characteristics yield strength of  $f_yk = 460$  MPa)
- C) Steel hollow section for roofing system, verandah column and plates
- Grade C: Tensile Strength = 375 Mpa
- Yield Strength = 275 Mpa
- D) Grade of Bolts
- Grade 4.6: Yield Strength = 240 Mpa
- Tensile Strength = 400 Mpa

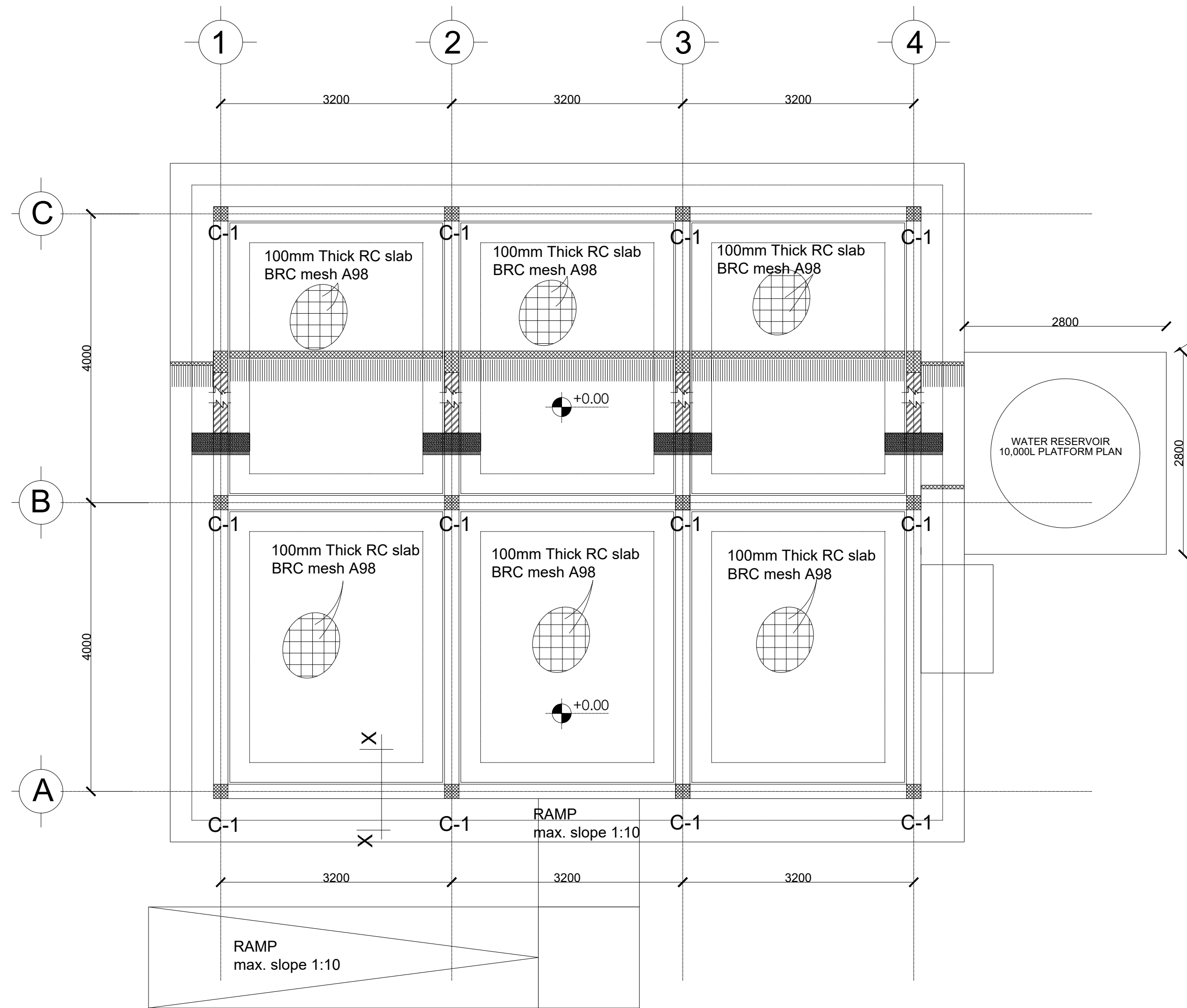
- V) Durability Requirements
- Concrete Cover to Reinforcement
    - Floor slabs: 25mm.
    - Beams: 25mm
    - Columns: 38mm
    - All substructure (below the ground level): 50mm
  - Protection of steel work
    - Surface preparation by blast cleaning, pickling process or where approved by wire brushing

Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

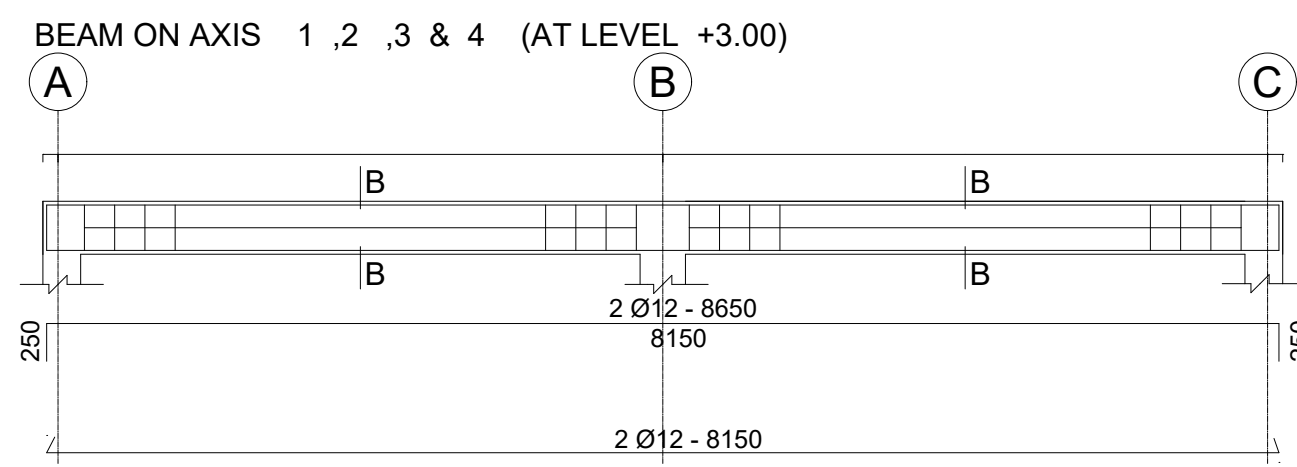
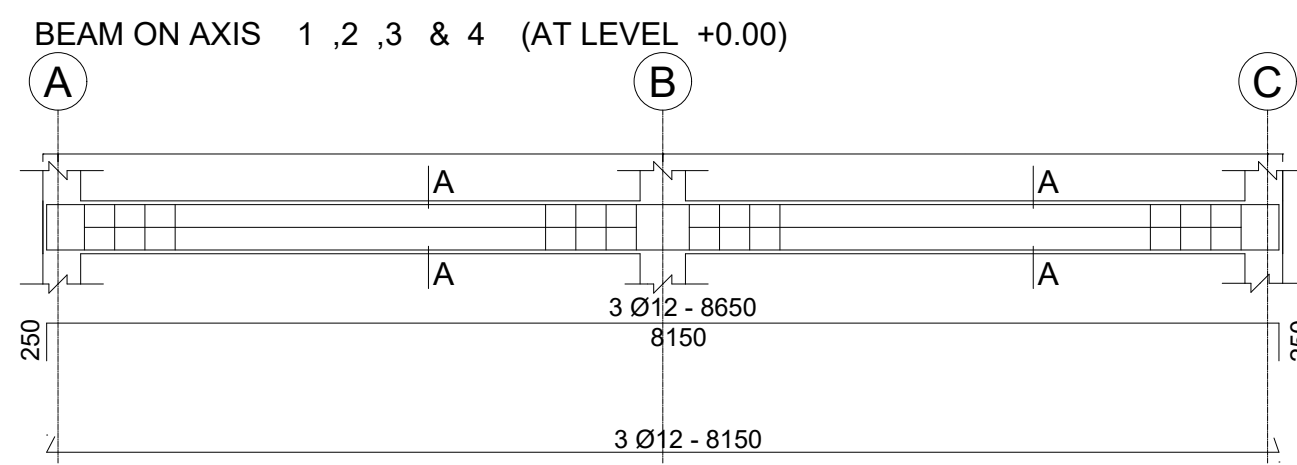
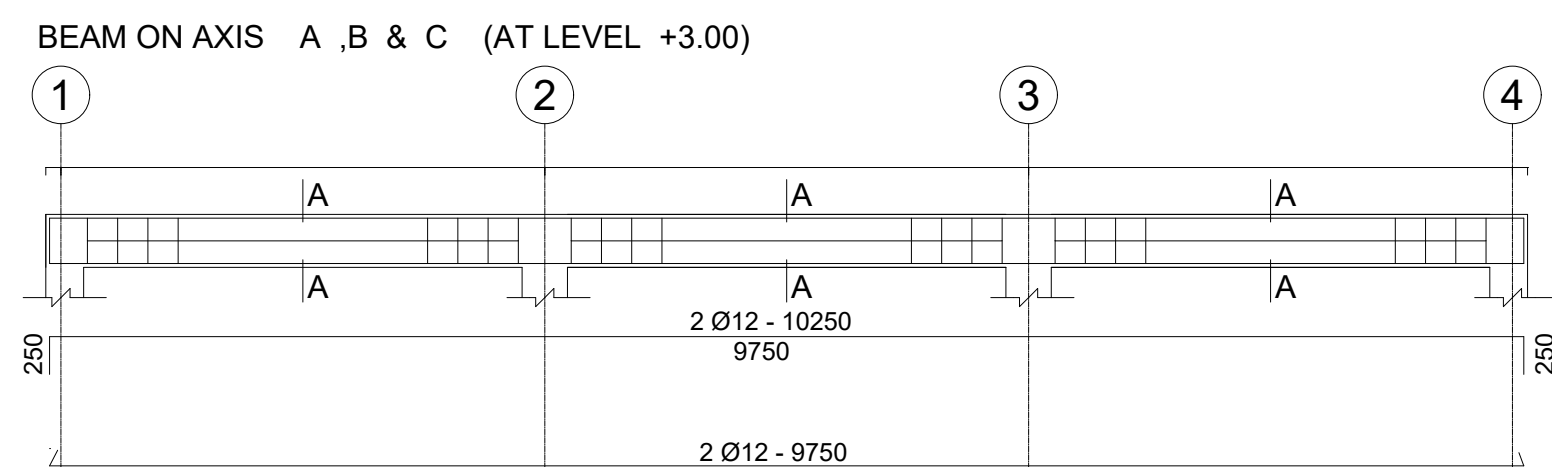
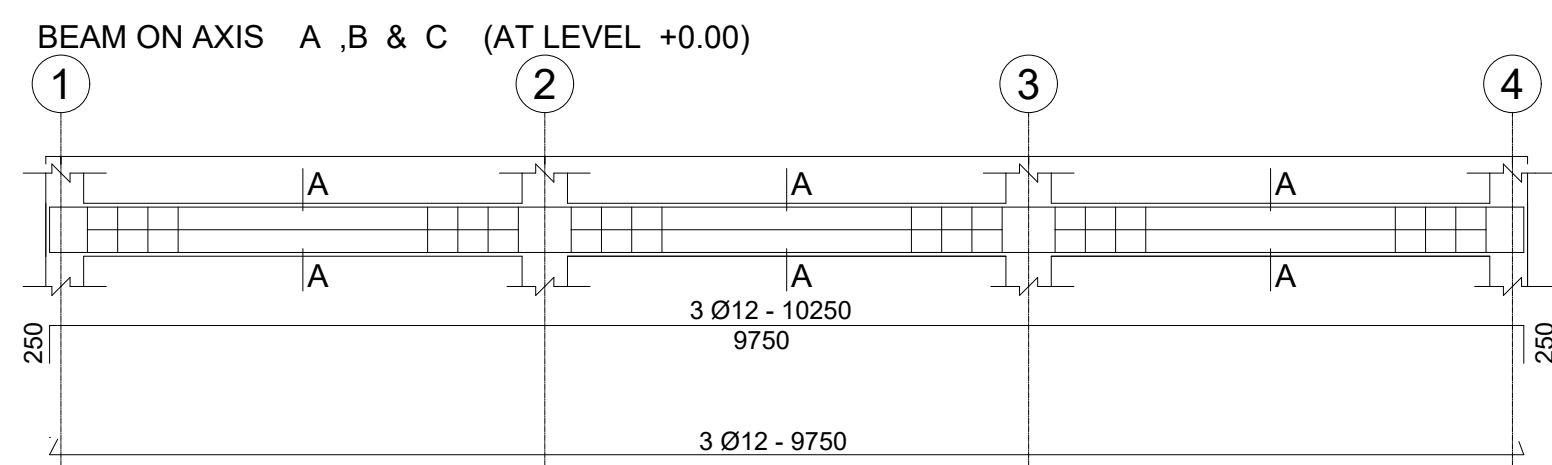
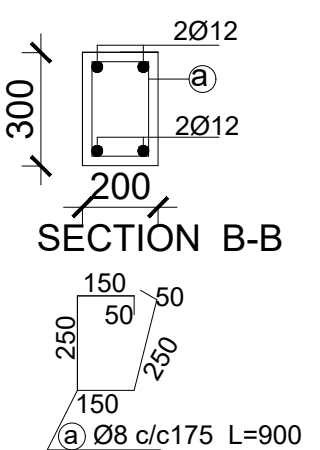
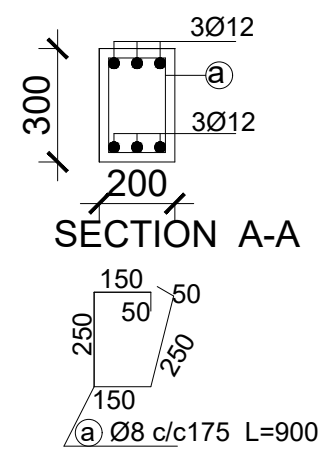


Program	
 <b>Enhancing Community Resilience and Local Governance Project</b>	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
	
Project:	
PROPOSED PRIMARY HEALTH CARE UNIT	
Drawing Title	
SECTION AND DETAILS	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 4/7	Scale: AS SPECIFIED
Date: 7 December 2023	Rev: 0

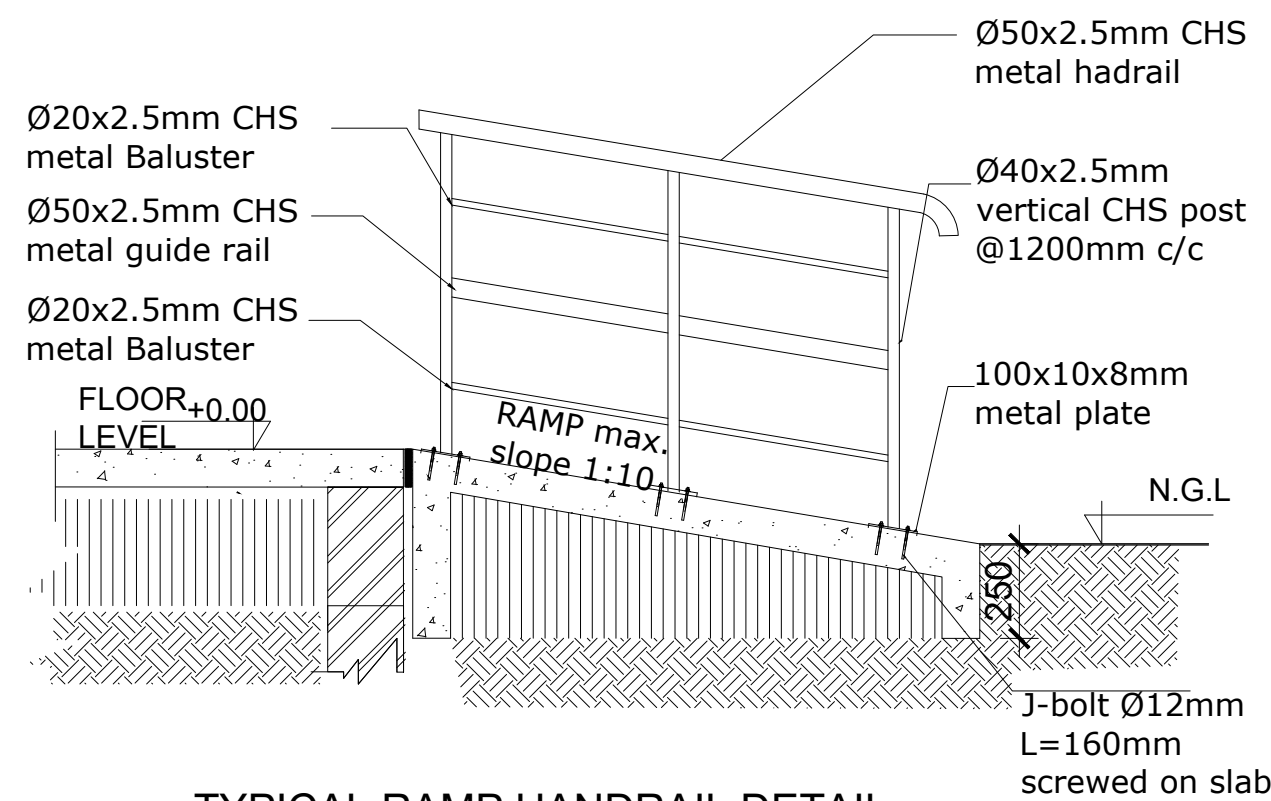




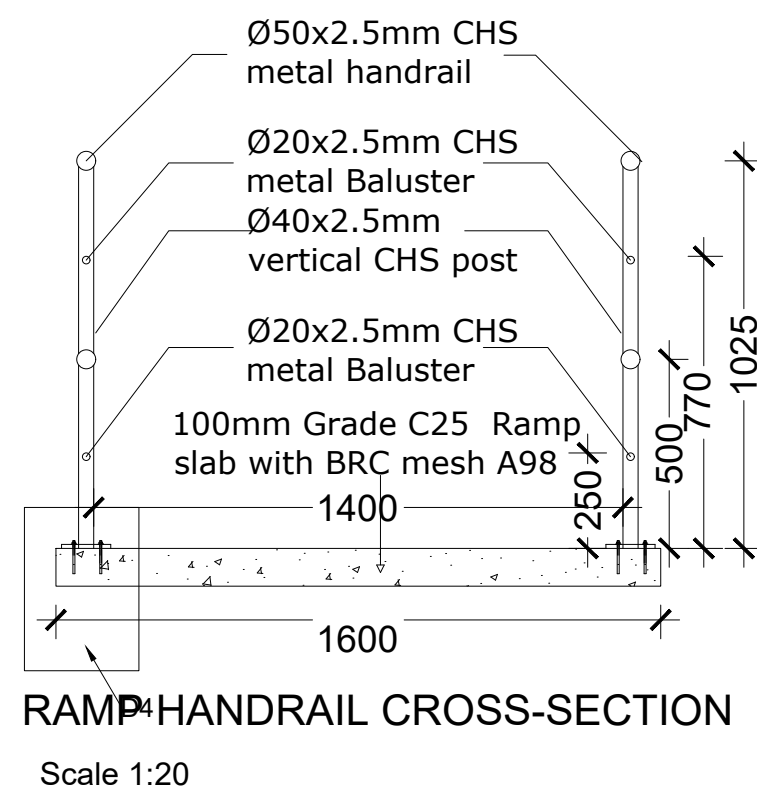
(PRIMARY HEALTH CARE UNIT)  
GROUND FLOOR SLAB REINFORCEMENT, BEAM AND COLUMN LAYOUT



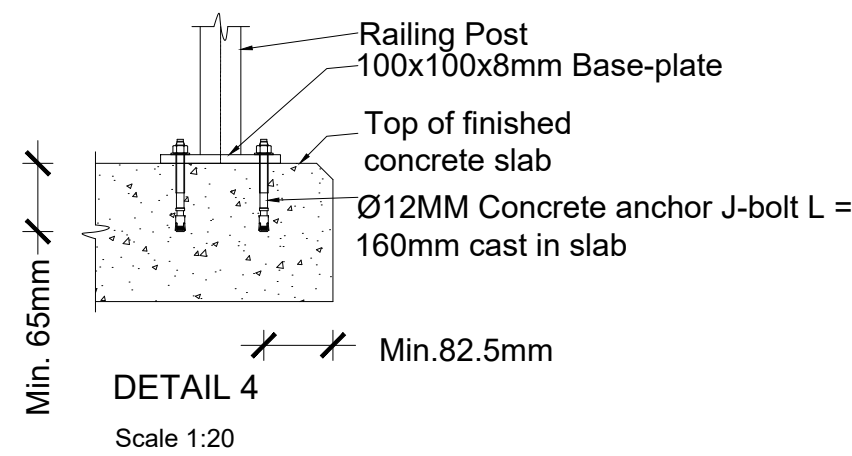
NOTE: LOCATION  
OF WATER TANK  
TO BE DECIDED  
ONSITE



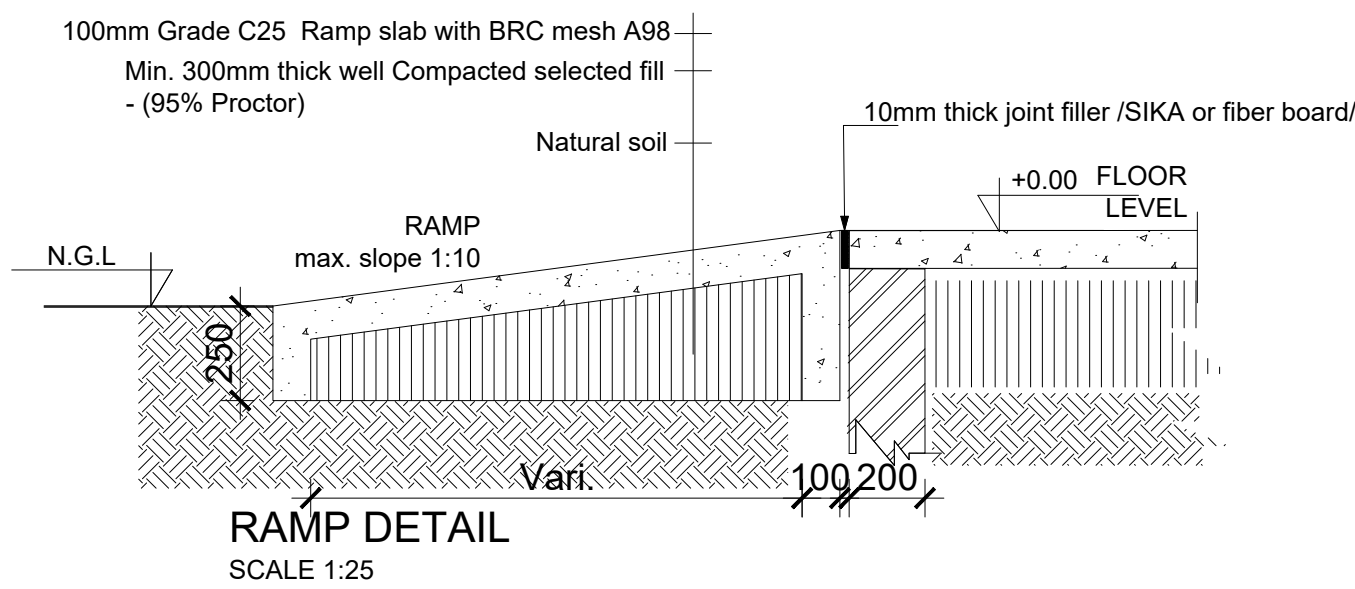
TYPICAL RAMP HANDRAIL DETAIL  
Scale 1:20



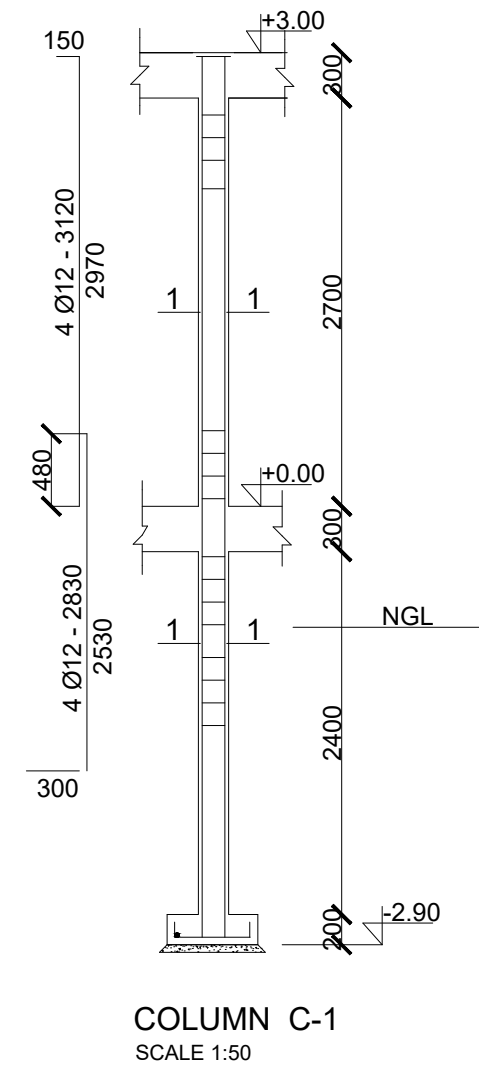
RAMP HANDRAIL CROSS-SECTION  
Scale 1:20



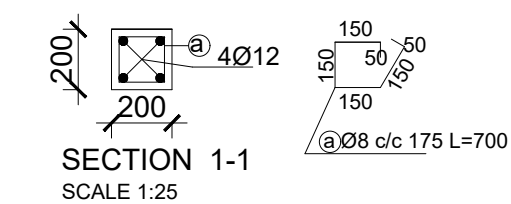
DETAIL 4  
Scale 1:20



RAMP DETAIL  
SCALE 1:25



COLUMN C-1  
SCALE 1:50



SECTION 1-1  
SCALE 1:25

#### GENERAL NOTES:



1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

#### STRUCTURAL NOTES:

- I) Building shall be founded on load bearing stone masonry wall having a depth of 1800mm from the natural ground level with bottom of excavation compacted prior to laying the foundation wall.
- II) Stone masonry foundation shall be placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 kN/m<sup>2</sup>. The top 500 mm soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.
- III) Foundation trench excavation to be approved by the Engineer prior to the construction of the stone masonry foundation.
- IV) Material Specification
  - A) Grade of Structural Concrete  
C-25 (Cube characteristics strength of 25 MPa) for columns and beams;  
C-20 (Cube characteristics strength of 20 MPa) for floor slab)
  - B) Concrete reinforcement bar  
Grade 460 (Characteristics yield strength of fyk = 460 MPa)
  - C) Steel hollow section for roofing system, verandah column and plates  
Grade C: Tensile Strength = 375 Mpa  
Yield Strength = 275 Mpa
  - D) Grade of Bolts  
Grade 4.6: Yield Strength = 240 Mpa  
Tensile Strength = 400 Mpa

- V) Durability Requirements
  - ❖ Concrete Cover to Reinforcement
    - Floor slabs: 25mm.
    - Beams: 25mm
    - Columns: 38mm
    - All substructure (below the ground level): 50mm
  - ❖ Protection of steel work
    - Surface preparation by blast cleaning, pickling process or where approved by wire brushing

Rev:	Date	Description:	Approved
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----
----	--/--/----	----	----

#### Program



#### Client:

GOVERNMENT OF SOUTH SUDAN

#### Implemented By:



#### Project:

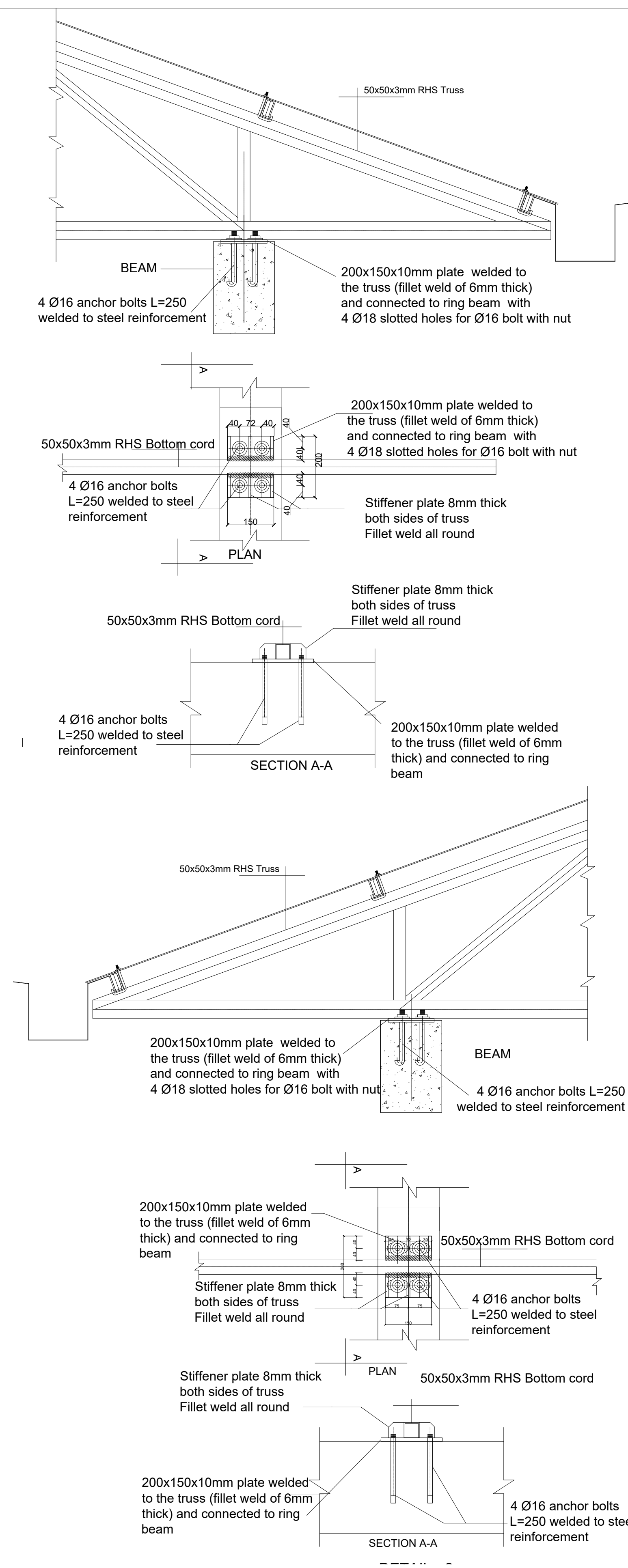
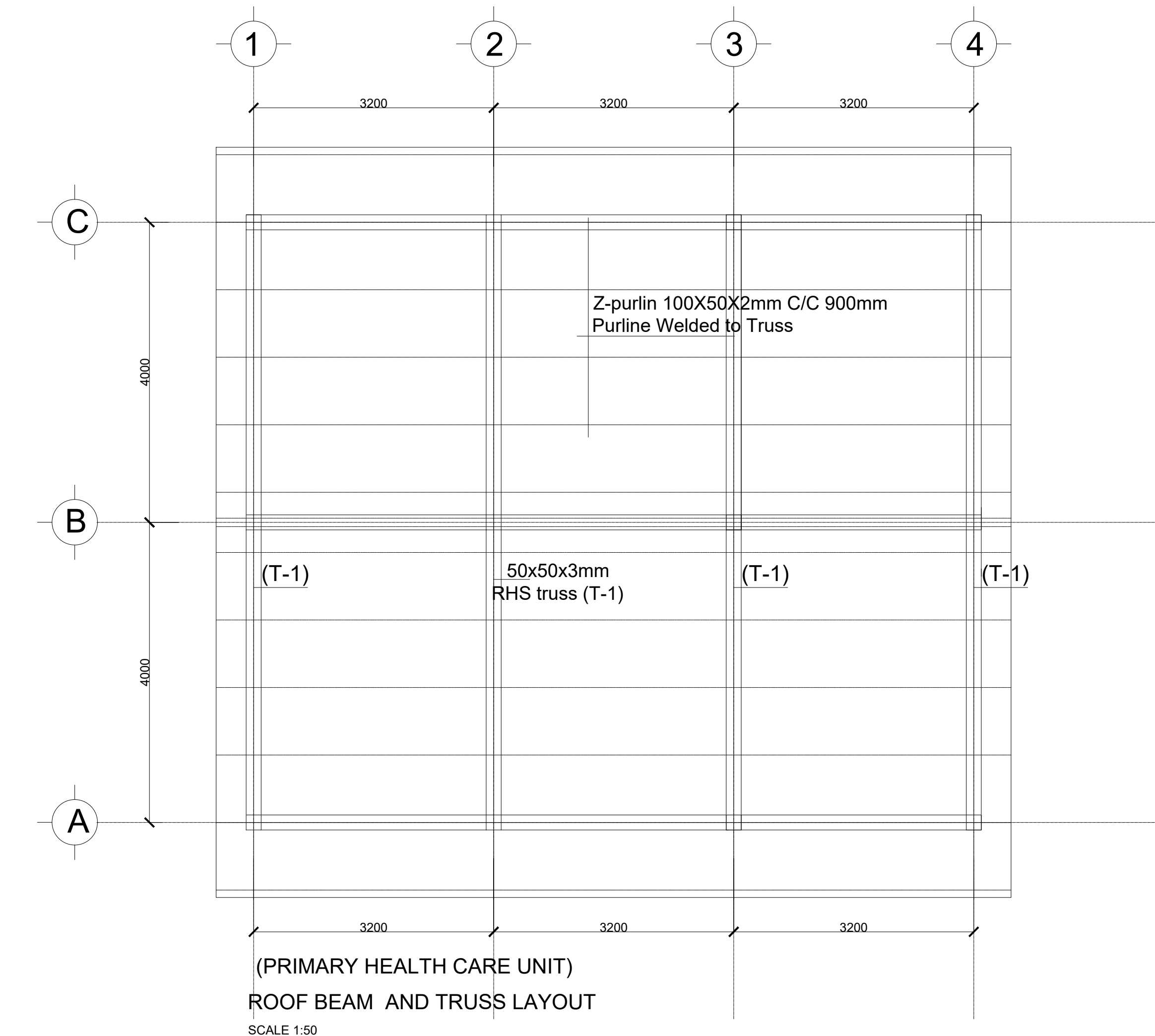
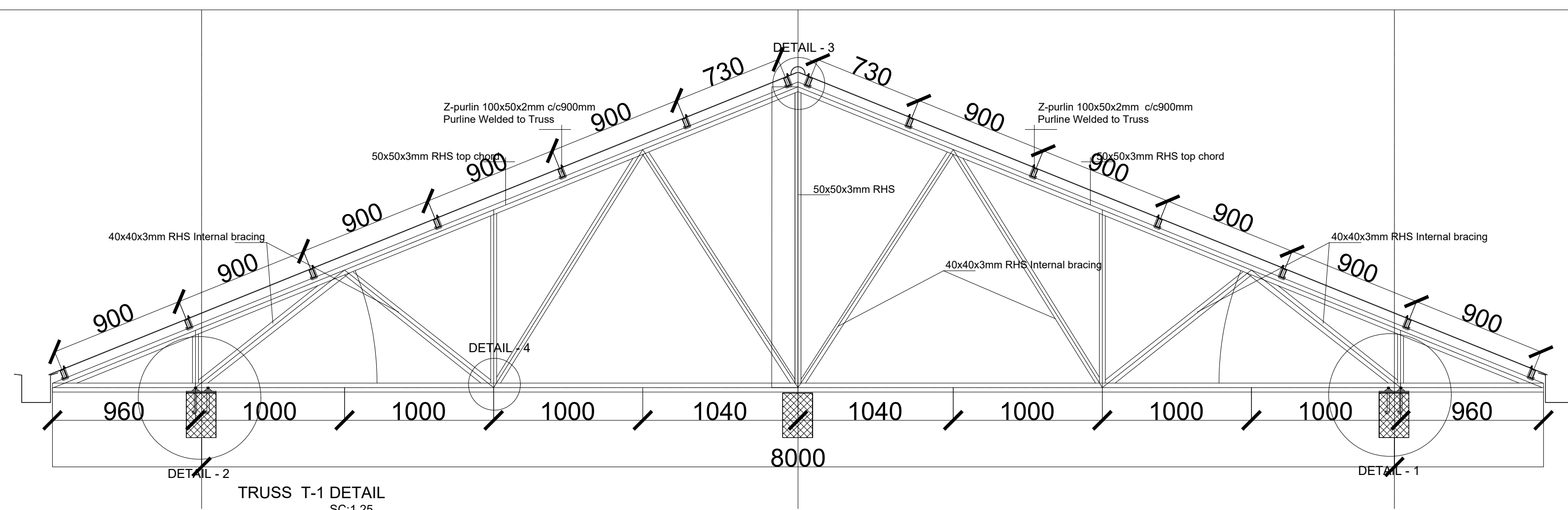
PROPOSED PRIMARY HEALTH CARE UNIT

#### Drawing Title

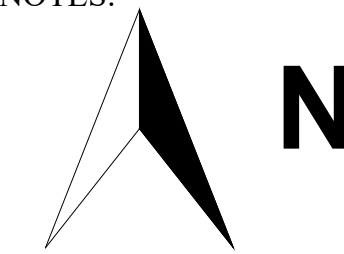
#### STRUCTURAL DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 5/7	Scale: AS SPECIFIED
Date: 7 December 2023	Rev: 0





GENERAL NOTES:



1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions overrides scaled dimensions.
4. Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

STRUCTURAL NOTES:

- I) Building shall be founded on load bearing stone masonry wall having a depth of 1800mm from the natural ground level with bottom of excavation compacted prior to laying the foundation wall.
  - II) Stone masonry foundation shall be placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 KN/m2. . The top 500 mm soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.
  - III) Foundation trench excavation to be approved by the Engineer prior to the construction of the stone masonry foundation.
- IV) Material Specification
- A) Grade of Structural Concrete
- C-25 (Cube characteristics strength of 25 MPa) for columns and beams;  
C-20 (Cube characteristics strength of 20 MPa) for floor slab)
- B) Concrete reinforcement bar
- Grade 460 (Characteristics yield strength of fyk = 460 MPa)
- C) Steel hollow section for roofing system, verandah column and plates
- Grade C: Tensile Strength = 375 Mpa  
Yield Strength = 275 Mpa
- D) Grade of Bolts
- Grade 4.6: Yield Strength = 240 Mpa  
Tensile Strength = 400 Mpa

- V) Durability Requirements
- ❖ Concrete Cover to Reinforcement
    - Floor slabs: 25mm.
    - Beams: 25mm
    - Columns: 38mm
    - All substructure (below the ground level): 50mm
  - ❖ Protection of steel work
    - Surface preparation by blast cleaning, pickling process or where approved by wire brushing

Rev:	Date	Description:	Approved
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----

Program



Enhancing Community  
Resilience and Local  
Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

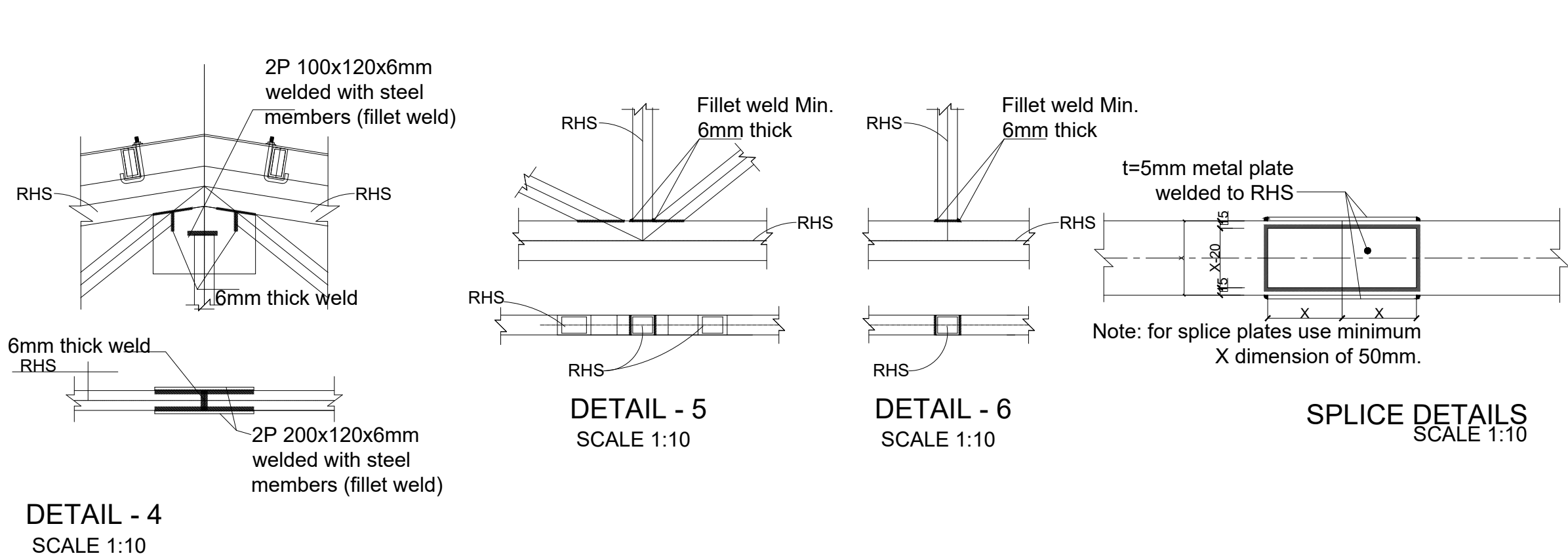
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

ROOF TRUSS DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 6/7	Scale: AS SPECIFIED
Date: 7 December 2023	Rev: 0





**Beam to Truss J bolt Details**  
SCALE 1:5

**Purlin to G.I Sheet J bolt Details**  
SCALE 1:5

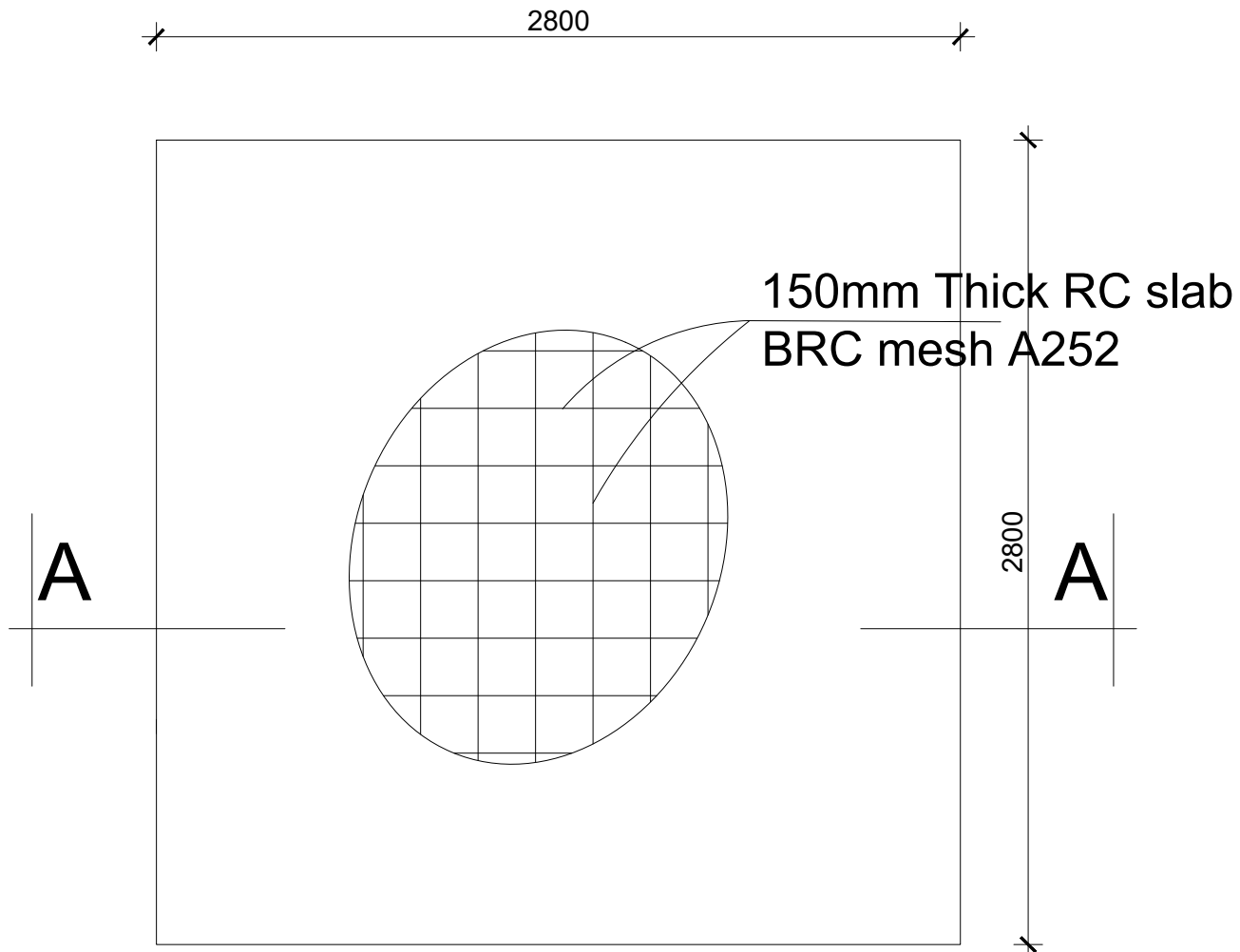
**DOOR SCHEDULE**

Door Name	D1	D2
Quantity	5	1
Frame material	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of anti-rust paint & one coat of enamel paint	Painted with 2 coats of anti-rust paint & one coat of enamel paint
Door leaf construction	180D opening made of 0.5mm flat metal pane	180D opening made of 0.5mm flat metal pane
Burglar Proofing	RHS 25X25X2 mm vertical steel bars at equal intervals welded to frames on the interior side	
Ironmongery	Stainless steel parliament hinges, door lock with pull - push bar handle	Stainless steel parliament hinges, door lock with pull - push bar handle
Louver	0.5mm thick steel louvers welded at top to the frame. Louvers to be covered with approved mosquito net.	

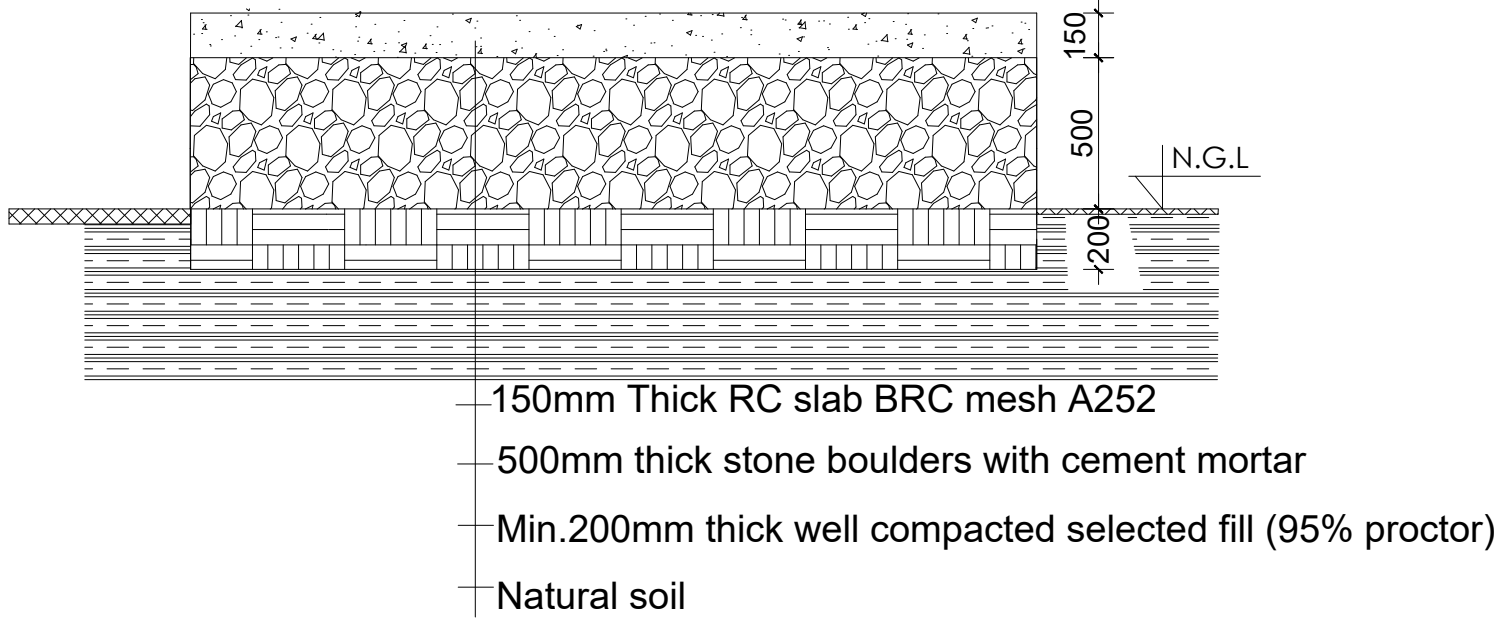
**WINDOW SCHEDULE**

Window Name	W1	W2	W3	W4
Quantity	3	1	2	3
Frame material	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of anti-rust paint & one coat of enamel paint	Painted with 2 coats of anti-rust paint & one coat of enamel paint	Painted with 2 coats of anti-rust paint & one coat of enamel paint	Painted with 2 coats of anti-rust paint & one coat of enamel paint
Glazing	5mm thick clear glass	5mm thick clear glass	5mm thick clear glass	5mm thick clear glass
Burglar proofing	RHS 25X25X2 mm vertical steel bars at equal intervals welded to frames on the interior side		RHS 25X25X2 mm vertical steel bars at equal intervals welded to frames on the interior side	RHS 25X25X2 mm vertical steel bars at equal intervals welded to frames on the interior side
Louvers	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.		0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.
Ironmongery	Stainless steel parliament hinges, window lock with bar handle	Stainless steel parliament hinges, window lock with latch	Stainless steel parliament hinges, window lock with latch	Stainless steel parliament hinges, window lock with bar handle

**WATER RESERVOIR PLATFORM PLAN**

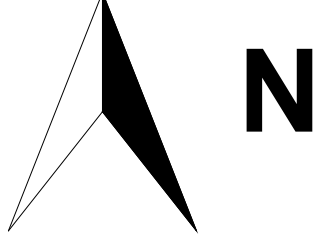


**PLAN**  
SCALE 1:25



**SECTION A-A**  
SCALE 1:25

**GENERAL NOTES:**



- All dimensions are in millimeters unless otherwise stated.
- All dimensions are to be checked and confirmed on site before commencement of any work.
- Written dimensions overrides scaled dimensions.
- Any discrepancy is to be reported to IOM site Engineer/Project manager before proceeding

**STRUCTURAL NOTES:**

- Building shall be founded on load bearing stone masonry wall having a depth of 1800mm from the natural ground level with bottom of excavation compacted prior to laying the foundation wall.
- Stone masonry foundation shall be placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 KN/m2. The top 500 mm soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.
- Foundation trench excavation to be approved by the Engineer prior to the construction of the stone masonry foundation.

**IV) Material Specification**

**A) Grade of Structural Concrete**

C-25 (Cube characteristics strength of 25 MPa) for columns and beams;

C-20 (Cube characteristics strength of 20 MPa) for floor slab)

**B) Concrete reinforcement bar**

Grade 460 (Characteristics yield strength of fyk = 460 MPa)

**C) Steel hollow section for roofing system, verandah column and plates**

Grade C: Tensile Strength = 375 Mpa

Yield Strength = 275 Mpa

**D) Grade of Bolts**

Grade 4.6: Yield Strength = 240 Mpa

Tensile Strength = 400 Mpa

**V) Durability Requirements**

**❖ Concrete Cover to Reinforcement**

- Floor slabs: 25mm.
- Beams: 25mm
- Columns: 38mm
- All substructure (below the ground level): 50mm

**❖ Protection of steel work**

- Surface preparation by blast cleaning, pickling process or where approved by wire brushing

Rev:	Date	Description:	Approved
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----
----	--/--/----	-----	-----

**Program**



**Enhancing Community  
Resilience and Local  
Governance Project**

**Client:**

GOVERNMENT OF SOUTH SUDAN

**Implemented By:**



**Project:**

PROPOSED PRIMARY HEALTH CARE UNIT

**Drawing Title**

**DOOR AND WINDOWS SCHEDULE**

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 7/7	Scale: AS SPECIFIED
Date: 7 December 2023	Rev: 0