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Rev.	Date

REVISIONS

Client:

HABITAT FOR HUMANITY  
TANZANIA (HFHT)

Project title and description:  
PROPOSED CONSTRUCTION OF GENDER  
INCLUSIVE PUBLIC TOILET AT KIGWE  
MNADANI/ BAHU DISTRICT, DODOMA  
TANZANIA

Project Architect :

Jackline J. M

Reviewed by: .

Francis T. M

Checked by:

Sasoché M. M

Project Financer:

HABITAT FOR HUMANITY / GOAC

Company

:



Job stage and description :

Job no :

Drawing Title:

Drawing no: 3D VIEWS

Date:	Scale:	Drawn By:
AUG 2025	Not to Scale	JACKLINE JUVENAL



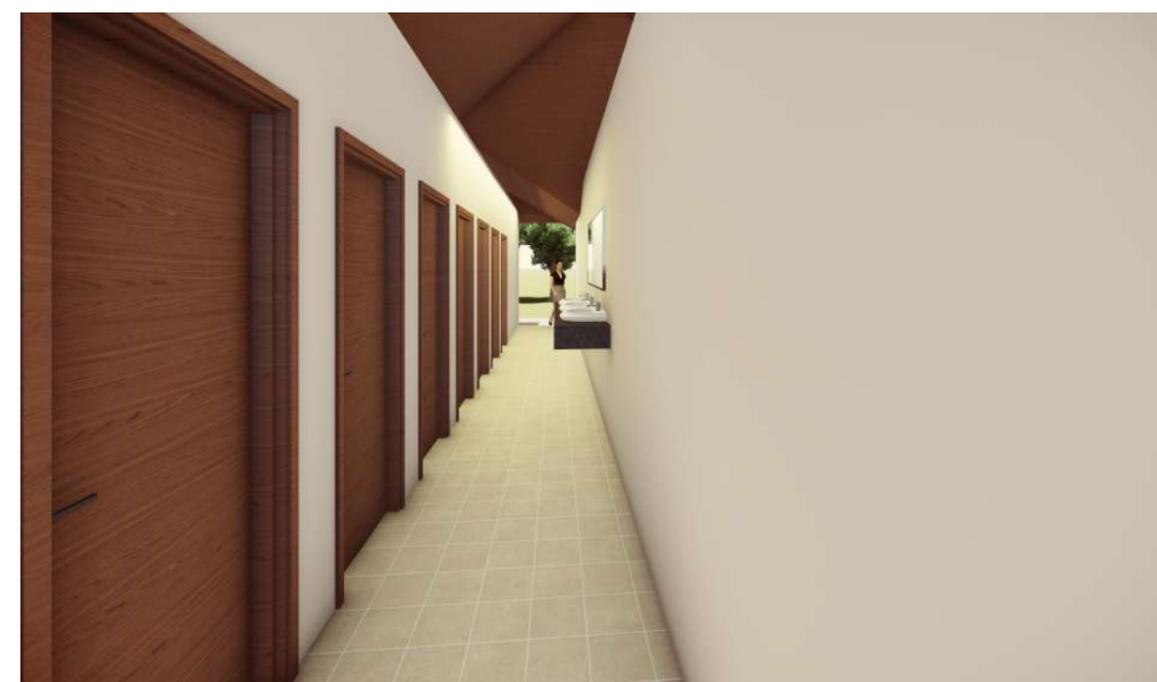
MEN'S TOILET SIDE



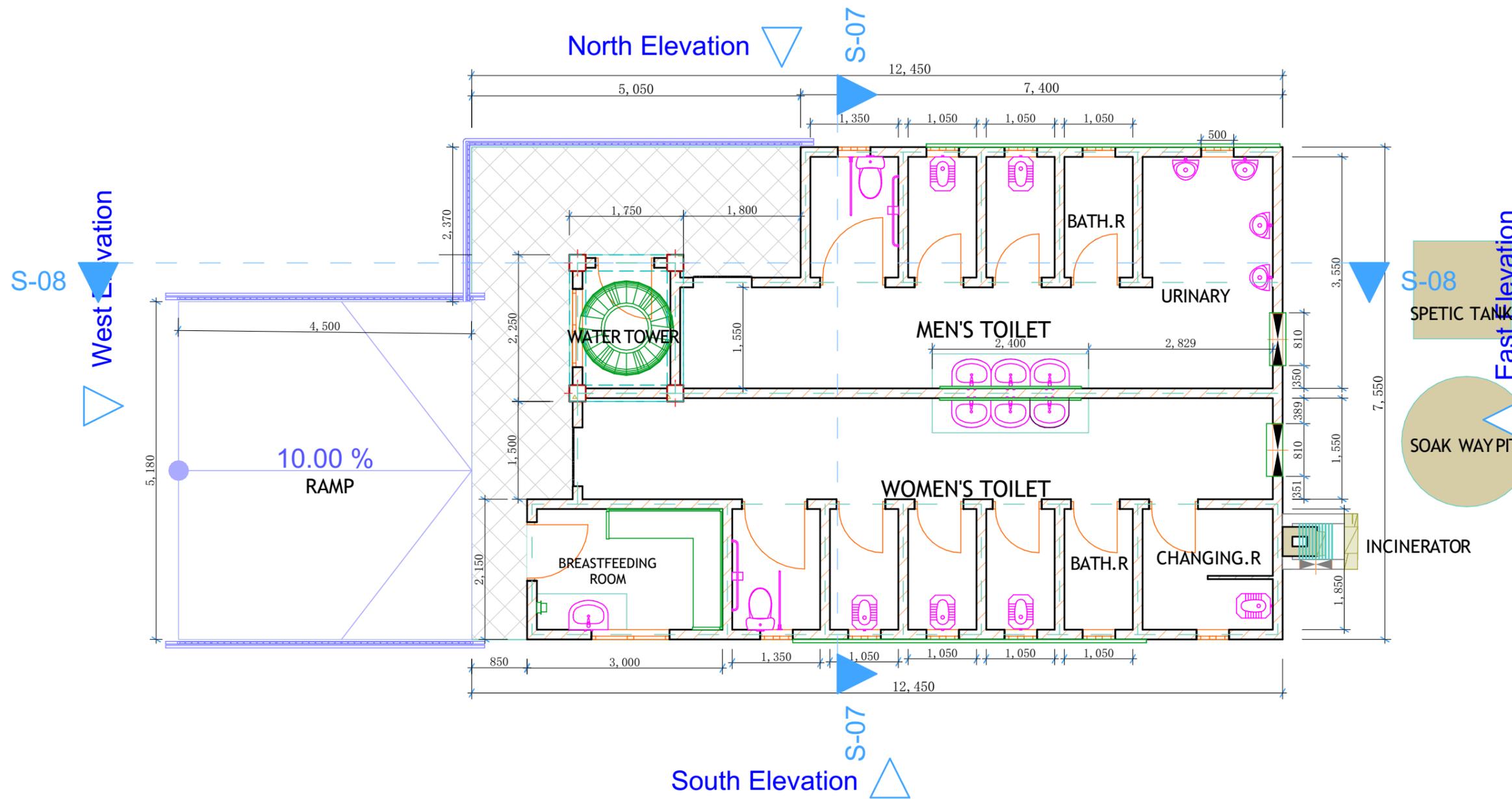
WOMEN'S TOILET SIDE



MEN'S TOILET INSIDE



WOMEN'S TOILET INSIDE



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Rev.	Date	
REVISIONS		
Client:		
Project title and description:		
Project Architect:		
Reviewed by:		
Checked by:		
Project Financer:		
Company		
Job stage and description:		
Job no :		
Drawing Title:		
Drawing no:		
Date:	Scale:	Drawn By:
AUG 2025	Not to Scale	JACKLINE JUVENAL

HABITAT FOR HUMANITY TANZANIA (HFHT)

PROPOSED CONSTRUCTION OF GENDER INCLUSIVE PUBLIC TOILET AT KIGWE MNADANI/ BAHU DISTRICT, DODOMA TANZANIA

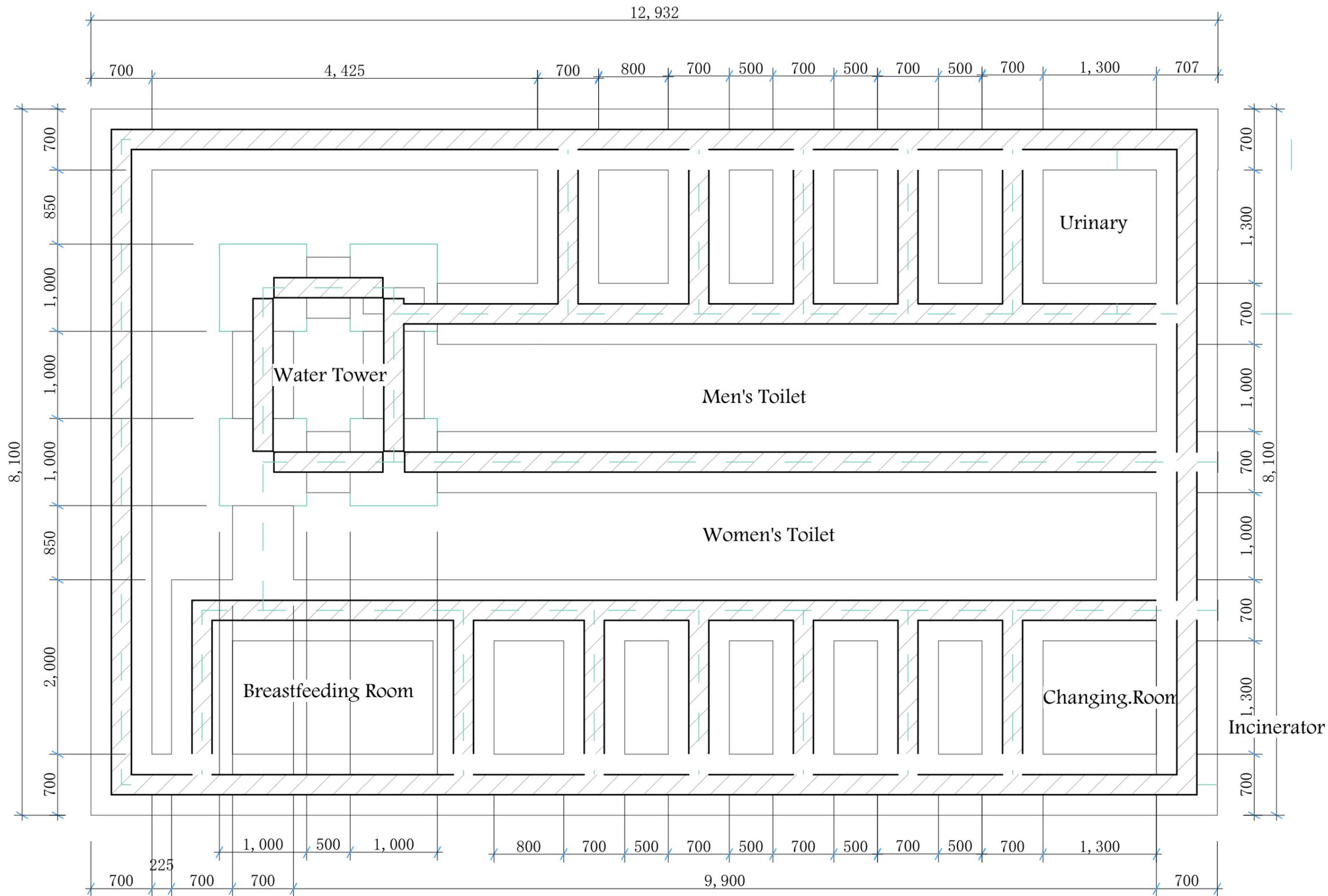
Jackline J. M

Francis T. M

Sasoché M. M

HABITAT FOR HUMANITY / GOAC

Habitat for Humanity Tanzania



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Rev.	Date
REVISIONS	

Client:  
 HABITAT FOR HUMANITY  
 TANZANIA (HFHT)

Project title and description:  
 PROPOSED CONSTRUCTION OF GENDER INCLUSIVE PUBLIC TOILET AT KIGWE MNADANI/ BAHU DISTRICT, DODOMA TANZANIA

Project Architect :  
 Jackline J. M

Reviewed by:  
 Francis T. M

Checked by:  
 Sasoche M. M

Project Financer:  
 HABITAT FOR HUMANITY / GOAC

Company  
 :



Job stage and description:

Job no :

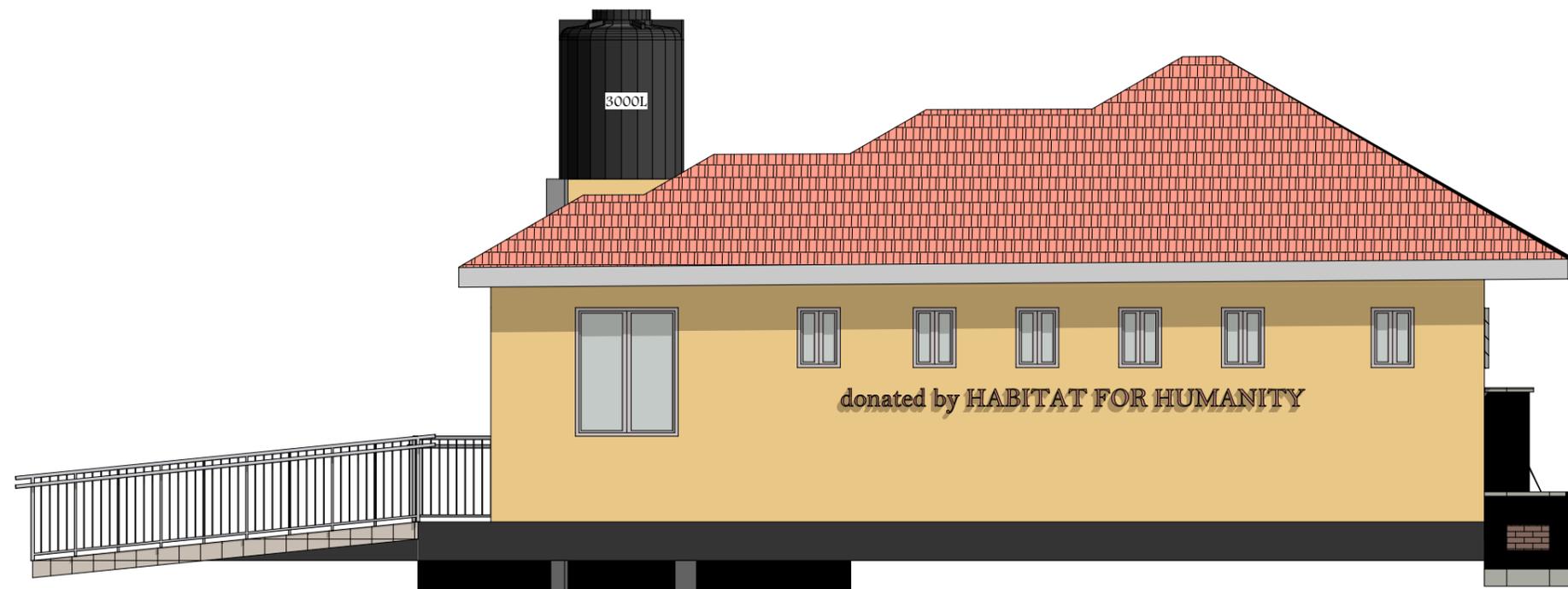
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 FOUNDATION PLAN

Drawing no:

Date:	Scale:	Drawn By:
AUG 2025	Not to Scale	JACKLINE JUVENAL



**NORTH ELEVATION**



**SOUTH ELEVATION**

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Rev.	Date
------	------

**REVISIONS**

Client:  
 HABITAT FOR HUMANITY  
 TANZANIA (HFHT)

Project title and description:  
 PROPOSED CONSTRUCTION OF GENDER INCLUSIVE PUBLIC TOILET AT KIGWE MNADANI/ BAHU DISTRICT, DODOMA TANZANIA

Project Architect :  
 Jackline J. M

Reviewed by:  
 Francis T. M

Checked by:  
 Sasoche M. M

Project Financer:  
 HABITAT FOR HUMANITY / GOAC

Company  
 :



Job stage and description:

Job no :

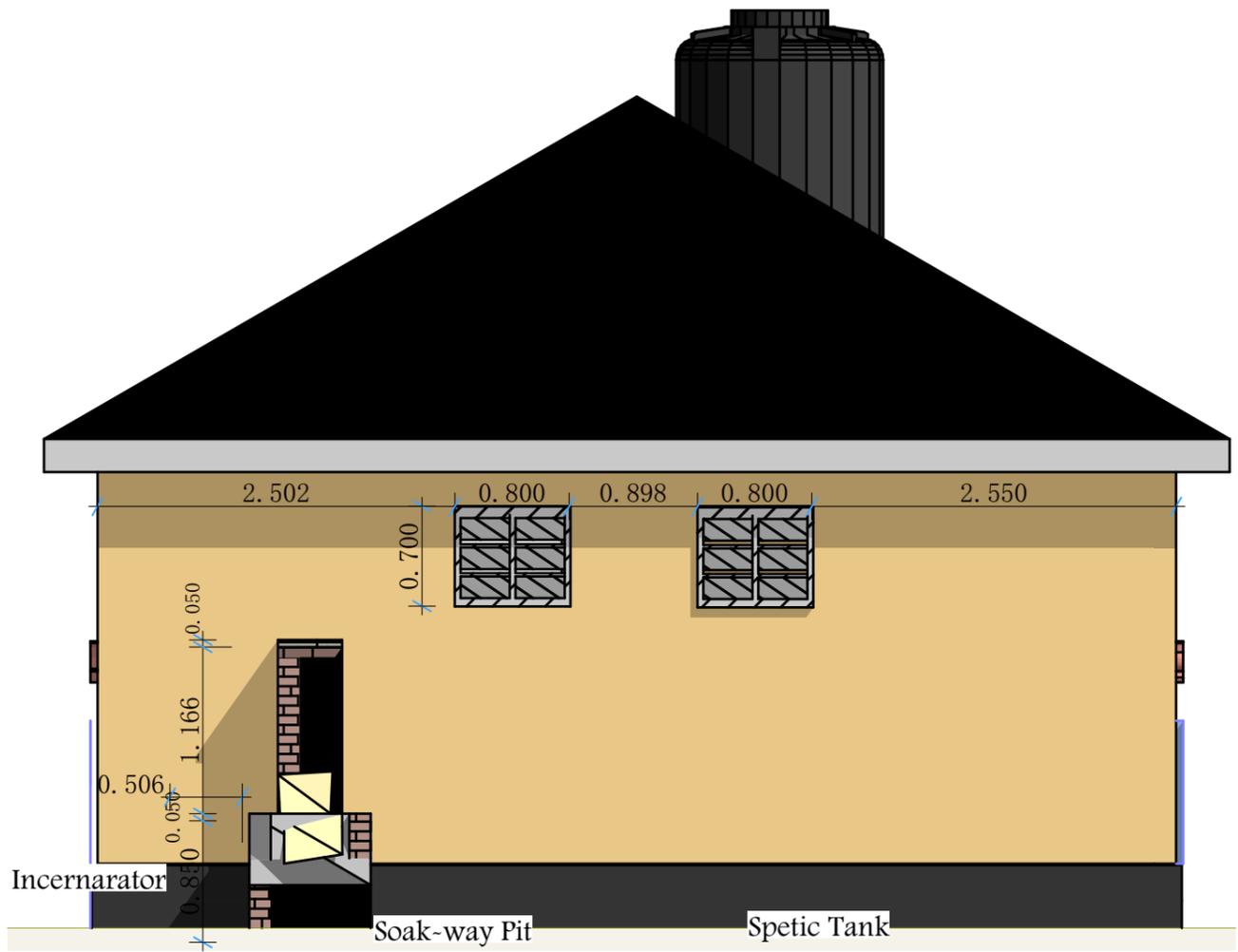
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 ELEVATIONS 01

Drawing no:

Date:	Scale:	Drawn By:
AUG 2025	Not to Scale	JACKLINE JUVENAL



WEST ELEVATION



EAST ELEVATION

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Rev.	Date
------	------

REVISIONS

Client:

HABITAT FOR HUMANITY  
TANZANIA (HFHT)

Project title and description:  
PROPOSED CONSTRUCTION OF GENDER  
INCLUSIVE PUBLIC TOILET AT KIGWE  
MNADANI/ BAHU DISTRICT, DODOMA  
TANZANIA

Project Architect :

Jackline J. M

Reviewed by: .

Francis T. M

Checked by:

Sasoché M. M

Project Financer:

HABITAT FOR HUMANITY / GOAC

Company

:



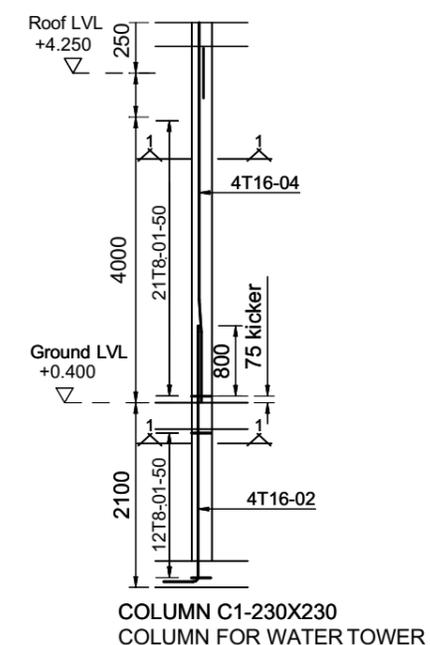
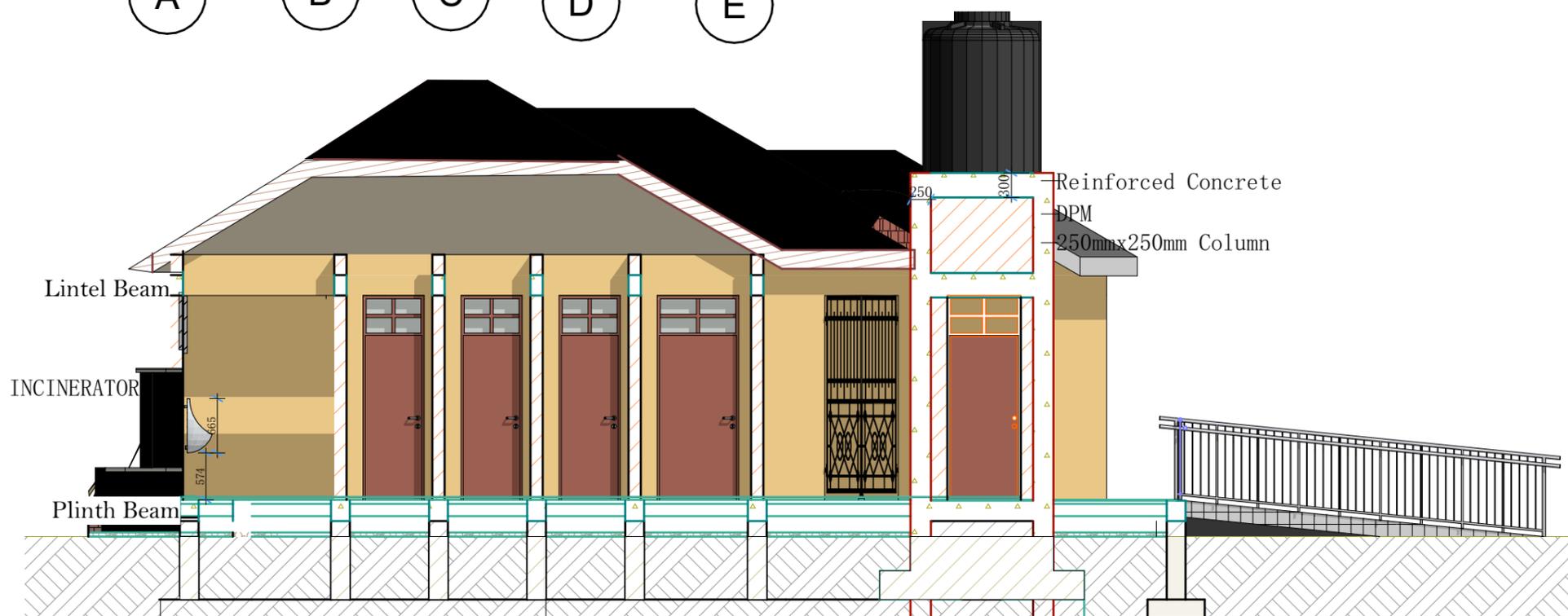
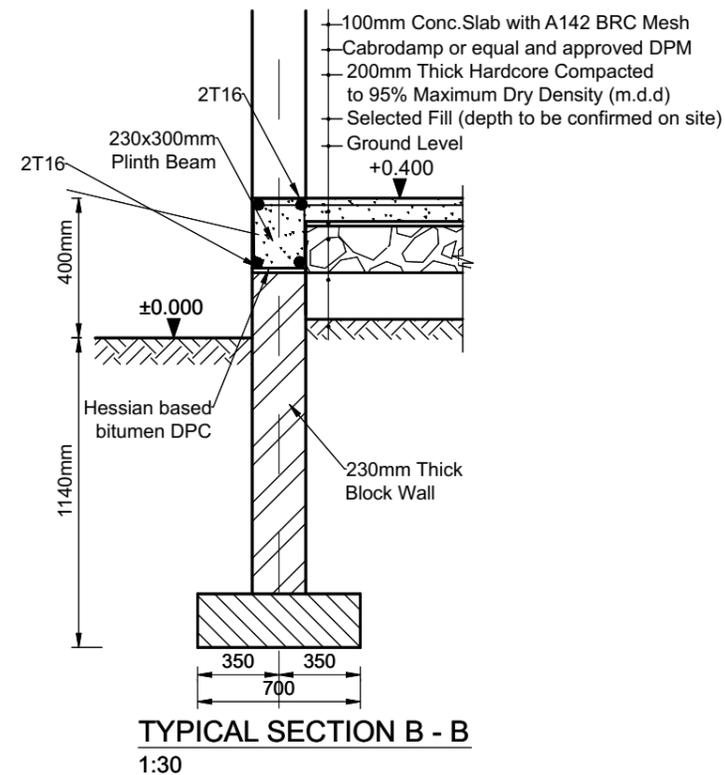
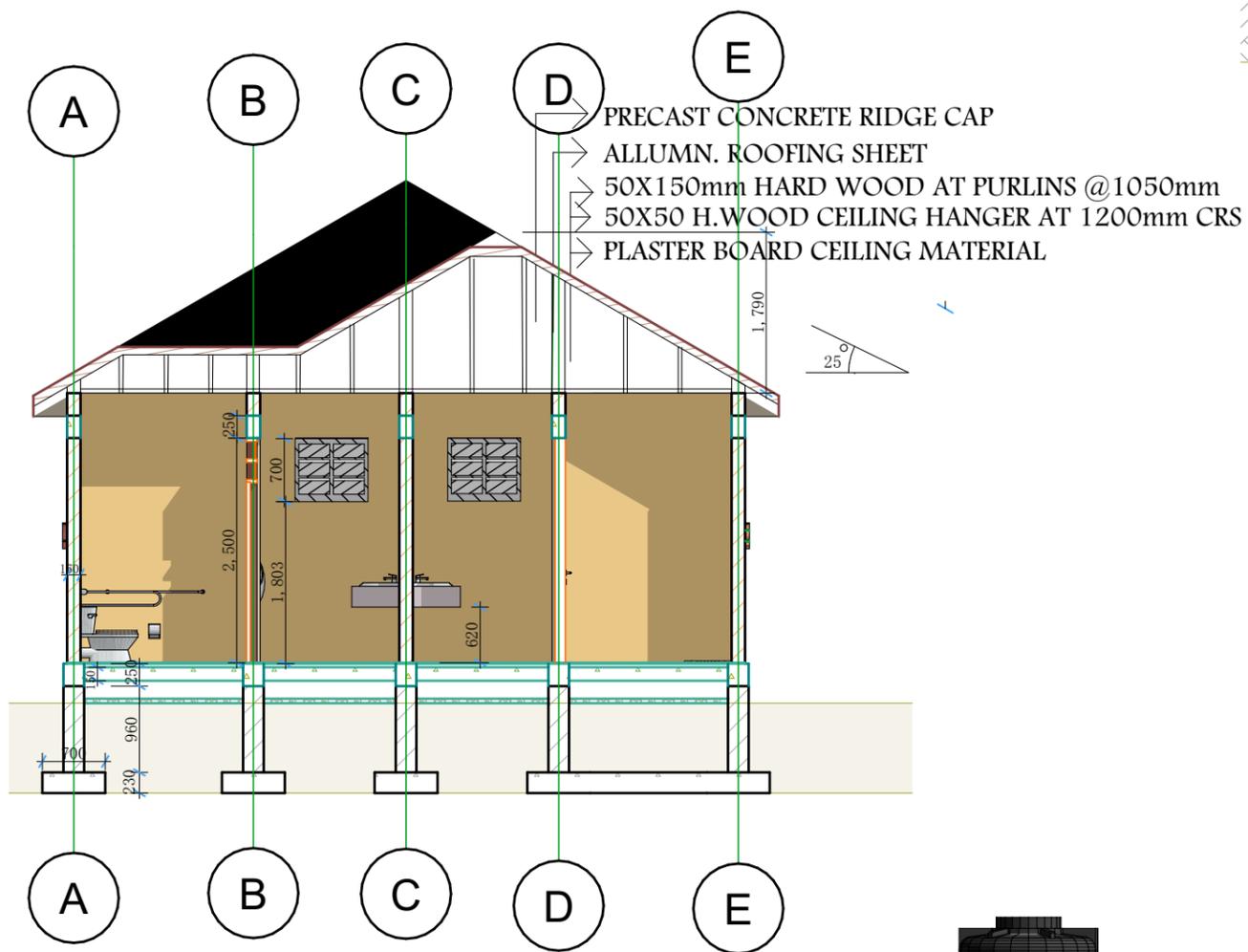
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Job no :

Drawing Title: ELEVATION 2

Drawing no:

Date:	Scale:	Drawn By:
AUG 2025	Not to Scale	JACKLINE JUVENAL



- 10mm Floor tiles
- 40mm Cement-Sand
- 150mm Base Concrete
- 200mm Hardcore
- Well compacted soil
- Column Base
- Strip Foundation
- 50mm Blinding
- 100mm Bed

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Rev.	Date
REVISIONS	

**Client:**  
 HABITAT FOR HUMANITY  
 TANZANIA (HFHT)

**Project title and description:**  
 PROPOSED CONSTRUCTION OF GENDER INCLUSIVE PUBLIC TOILET AT KIGWE MNADANI/ BAHU DISTRICT, DODOMA TANZANIA

**Project Architect:**  
 Jackline J. M

**Reviewed by:**  
 Francis T. M

**Checked by:**  
 Sasoche M. M

**Project Financer:**  
 HABITAT FOR HUMANITY / GOAC

**Company**



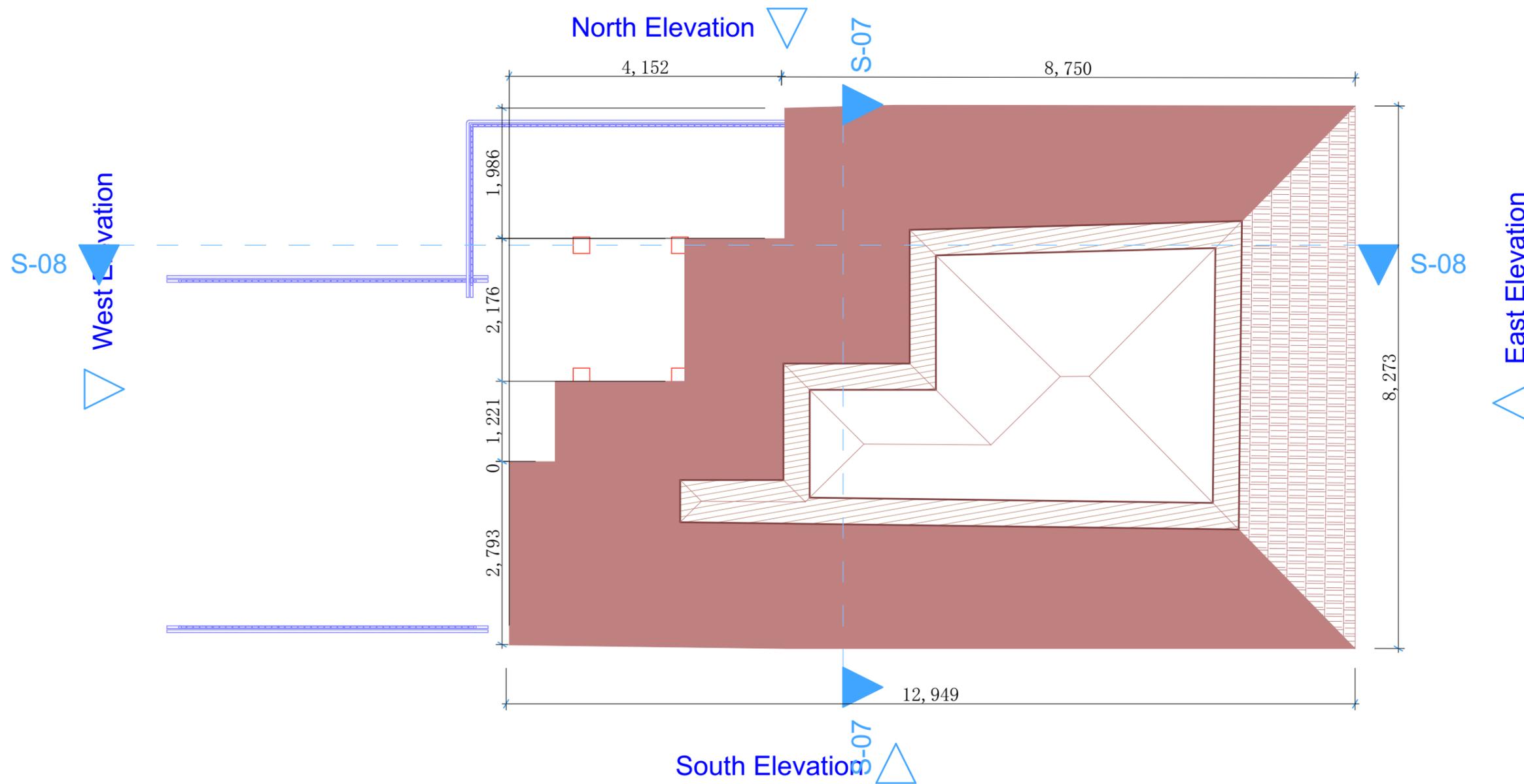
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**Job no :**

**Drawing Title:** SECTION

**Drawing no:**

Date:	Scale:	Drawn By:
AUG 2025	Not to Scale	JACKLINE JUVENAL



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5. ALL DIMENSIONS ARE IN MILLIMETERS.

Rev.	Date
------	------

REVISIONS

Client:

HABITAT FOR HUMANITY  
TANZANIA (HFHT)

Project title and description:  
PROPOSED CONSTRUCTION OF GENDER  
INCLUSIVE PUBLIC TOILET AT KIGWE  
MNADANI/ BAHU DISTRICT, DODOMA  
TANZANIA

Project Architect :

Jackline J. M

Reviewed by:

Francis T. M

Checked by:

Sasoché M. M

Project Financer:

HABITAT FOR HUMANITY / GOAC

Company

:



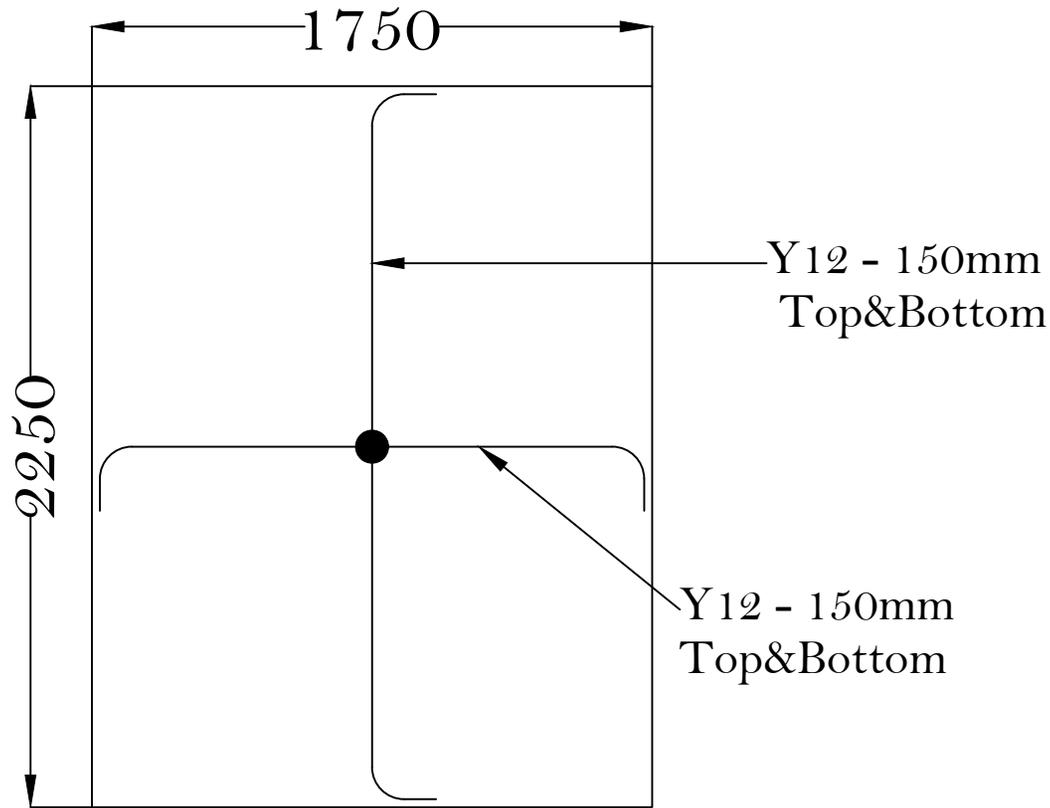
Job stage and description:

Job no :

Drawing Title:  
ROOF PLAN

Drawing no:

Date:	Scale:	Drawn By:
AUG 2025	Not to Scale	JACKLINE JUVENAL



# WATER TANK RAISER TOP SLAB REINFORCEMENT

## NOTE

1. All dimensions are in mm unless stated otherwise. Contact the structural Engineer for any discrepancies.
2. All structural engineering drawings should be read in conjunction with relevant Architectural drawings.
3. All reinforced concrete shall be grade 20, Nominal volumetric portion 1:2:4, Cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS 4449 whereby  $f_y = 460\text{N/mm}^2$ .
5. Bars lap length should be at least 50 times the diameter of the bars lapped.
6. Structural Engineer must be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.
7. Cement for works must comply with BS12 and shall be ordinary Portland cement.
8. Clear cover for reinforcement shall be as follows
  - Slabs.....20mm
  - Beams.....25mm
  - Columns.....25mm
  - Footings.....50mm
9. All steel fixing, shuttering and concrete works must be done under close supervision of structural Engineer.
10. Sand borrow pits must be clean and free from organic materials and shall be approved by the structural engineer before use.
11. Minimum compressive strength for blocks shall be 3.5N/mm<sup>2</sup>.

### Project

Proposed Construction of toilet blocks

### Client

Habitat for Humanity

designed by: F.TM (Eng)

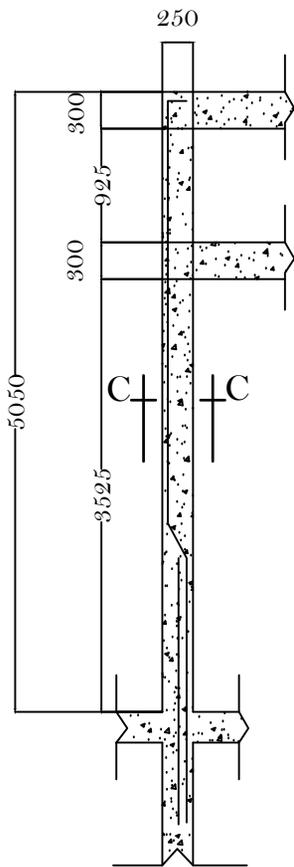
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Drawing title;

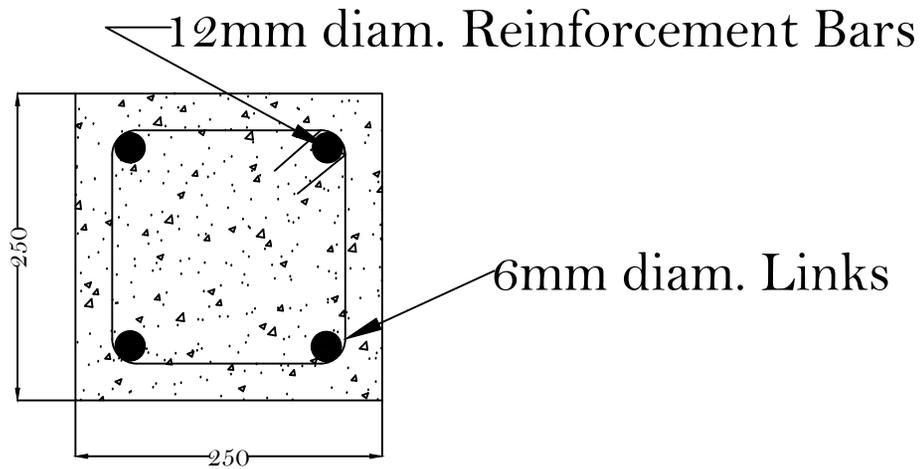
WATER TANK RAISER TOP  
SLAB REINFORCEMENT

DATE;

August, 2025



COULMN C-1

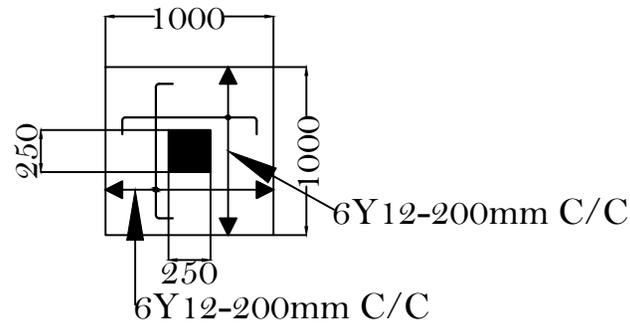
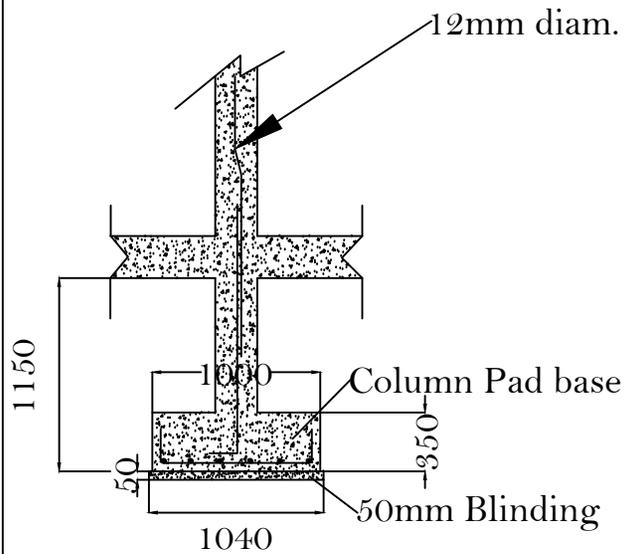


SECTION C-C

**NOTE**

1. All dimensions are in mm unless stated otherwise. Contact the structural Engineer for any discrepancies.
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11. Minimum compressive strength for blocks shall be 3.5N/mm<sup>2</sup>.

<b>Project</b>
Proposed Construction of toilet blocks
<b>Client</b>
Habitat for Humanity
designed by: F.TM (Eng)
Checked by: S.M.M
Drawing title;
FOUNDATION LAYOUT PLAN DETAILS
DATE;
August, 2025



COLUMN FOOTING

## NOTE

1. All dimensions are in mm unless stated otherwise. Contact the structural Engineer for any discrepancies.
2. All structural engineering drawings should be read in conjunction with relevant Architectural drawings.
3. All reinforced concrete shall be grade 20, Nominal volumetric portion 1:2:4, Cube strength not less than  $20\text{N/mm}^2$  at 28 days.
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11. Minimum compressive strength for blocks shall be  $3.5\text{N/mm}^2$ .

### Project

Proposed Construction of toilet blocks

### Client

Habitat for Humanity

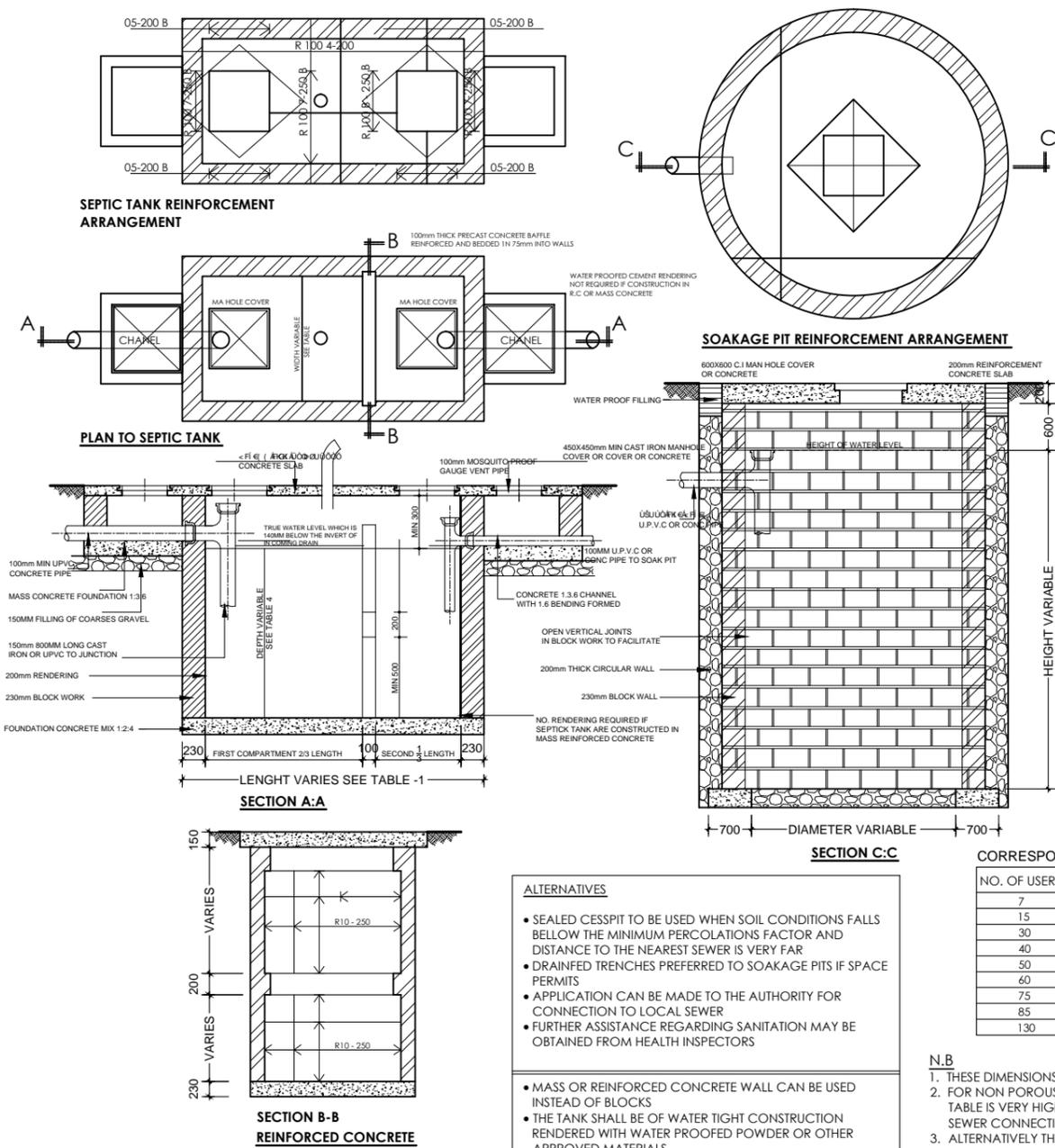
designed by: F.TM (Eng)

Checked by: S.M.M

Drawing title;  
FOUNDATION LAYOUT PLAN  
DETAILS

DATE;

August, 2025



**DISTANCE REQUIRED FOR SEPTIC TANKS AND SOAKWAYS**

MINIMUM DISTANCE FROM	SEPTIC	SOAK WAY
BUILDING	1.5	3.5
PROPERTY BOUNDARIES	1.5	1.5
WELLS	3.00	3.00
CUTS OR EMBARKMENTS	7.5	3.00
WATER PIPES	3.0	3.0
LARGE TREES	3.0	3.0

- FOR DIAMETER UP TO 3.00 USER 10, 290mm c/c FOR DIAMETER UP TO 3.50M USER 10, 290MM C/C ARRANGEMENTS OF REINFORCEMENT AS SHOWN
- BENDING SCHEDULE VARIES WITH THE DIAMETER OF SOAK PIT AS WALL AS SIZES OF SEPTIC TANK

**SEPTICK TANK SIZES TABLE 1**

TYPES	ALL WASTES NO OF USERS	DIMENSION LENGTH(mm)	WIDTH(mm)	DEPTH(mm)	VOLUMES M <sup>3</sup>
1	7	1600	800	1500	181
2	15	2300	1100	1500	3.87
3	30	3200	1600	1500	7.74
4	40	3600	1900	1500	10.33
5	50	4100	2100	1500	12.92
6	60	4500	2300	1500	15.48
7	75	4600	2300	1800	19.35
8	85	4900	2400	1800	21.93
9	130	5500	2750	2200	33.54

**BAR BENDING SCHEDULE**

BAR MARK	LENGTH	TYPE	SHAPE
01	VARIABLES	R10	100 L 100
02	"	R10	100 L 100
03	"	R10	100 L 100
04	"	R10	100 L 100
05	"	R10	100 L 100
06	"	R10	100 L 100
07	"	R10	100 L 100
08	"	R10	100 L 100

- ALL DIMENSIONS ARE IN MILLIMETERS
- SOIL PERMEABILITY TEST MUST BE CONDUCTED AT PLOT SITE EFFLUENT DISPOSAL BY SOAKING IS NOT APPLICABLE WHERE SOIL ARE NON POROUSEG CRAY OR STANDARD PERCOLATION RATE IN ACCESS OF 600min PER 15min

**CORRESPONDING DIMENSION SOAK WAYS**

NO. OF USERS	DIAMETER (M)	DEPTH (M)
7	1.5	1.8
15	1.7	1.85
30	2.1	2.0
40	2.35	2.1
50	2.61	2.2
60	2.85	2.3
75	2.23	2.45
85	3.5	2.5
130	4.1	3.0

- N.B**
1. THESE DIMENSIONS ONLY APPLY FOR POROUS SOIL
  2. FOR NON POROUS SOILS EG CLAY AND WHERE WATER TABLE IS VERY HIGH OTHER MEANS OF DISPOSAL e.g SEWER CONNECTION MUST BE APPLIED
  3. ALTERNATIVELY THESE DIMENSIONS (IN PARTICULAR THE DIAMETER)MAY BE DOUBLED TO CREATE LONGER RETENTION PERIOD DUE TO INFILTRATION

- ALTERNATIVES**
- SEALED CESSPIT TO BE USED WHEN SOIL CONDITIONS FALLS BELOW THE MINIMUM PERCOLATIONS FACTOR AND DISTANCE TO THE NEAREST SEWER IS VERY FAR
  - DRAINED TRENCHES PREFERRED TO SOAKAGE PITS IF SPACE PERMITS
  - APPLICATION CAN BE MADE TO THE AUTHORITY FOR CONNECTION TO LOCAL SEWER
  - FURTHER ASSISTANCE REGARDING SANITATION MAY BE OBTAINED FROM HEALTH INSPECTORS
- MASS OR REINFORCED CONCRETE WALL CAN BE USED INSTEAD OF BLOCKS
- THE TANK SHALL BE OF WATER TIGHT CONSTRUCTION RENDERED WITH WATER PROOFED POWDER OR OTHER APPROVED MATERIALS

**Revision History**

RevID	ChID	Change Name	Date

**Proposed Construction of Toilet Blocks**

Bahi  
Dodoma  
Tanzania

**Drawing Name**  
Septic and soakpit Details

Client Details

HABITAT FOR UMANITY

Drawn by Jackline Juvenal Date August 2025

Modified by Mallya, F.T Date August 2025

Checked by Sasoche, M.M Date August 2025

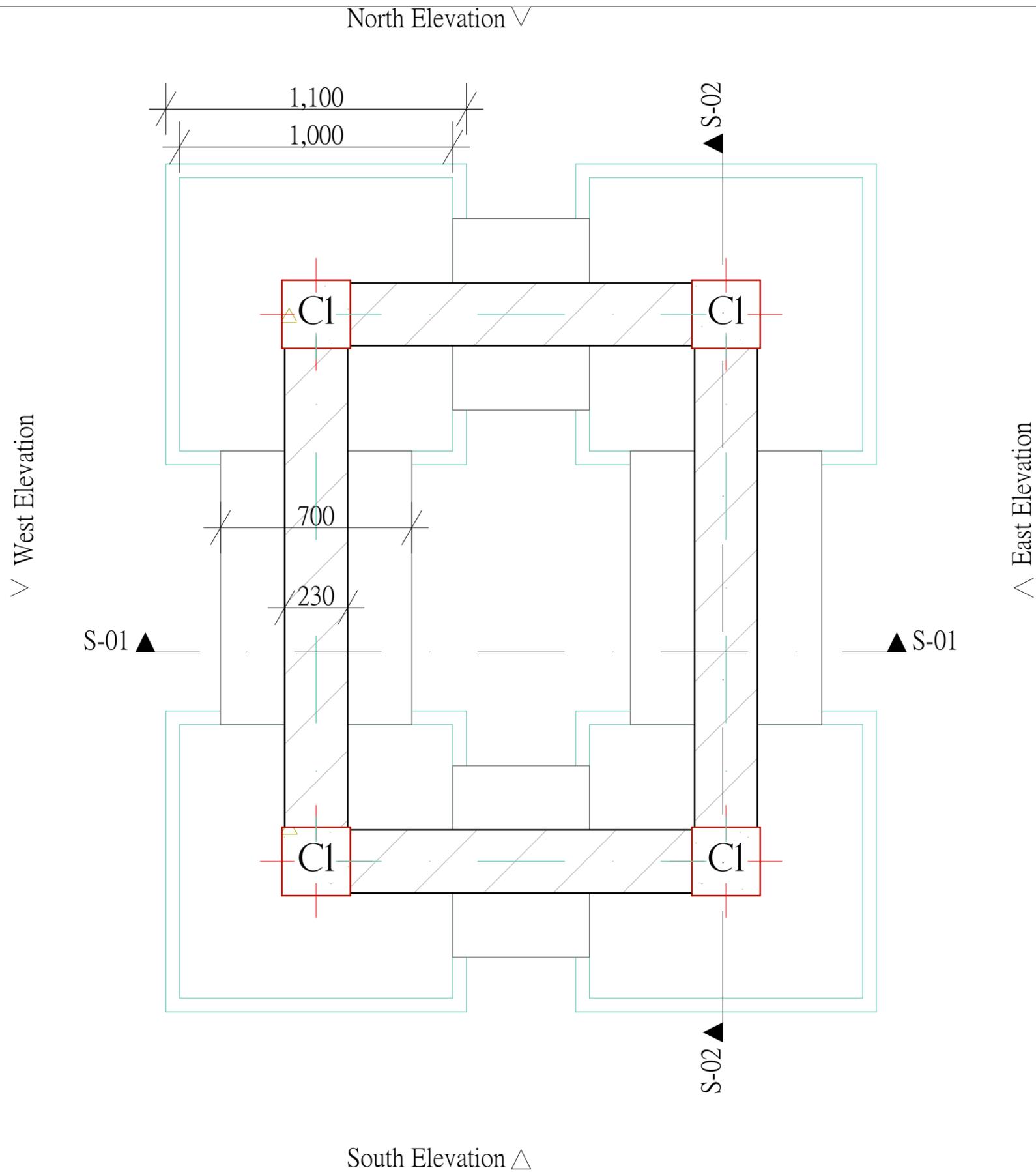
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Building Section  
Planning and Policy Department  
Ministry of Health, Community Development,  
Gender Elderly and Children.

In Collaboration with President's Office, Regional Administration  
and Local Governments.  
Sokoine Building,  
P.O. Box 1923,

Client  
PRESIDENT'S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENTS,  
MKAPA BUILDING, P.O. BOX 1923, 41185 DODOMA

Drawing title  
**SEPTIC & SOAKAWAY PIT**



Revision History			
RevID	ChID	Change Name	Date

Proposed Construction of Toilet Blocks

Bahi  
Dodoma  
Tanzania

Drawing Name  
Water Riser tank Foundation Plan

Client Details  
**HABITAT FOR UMANITY**  
  
**Habitat for Humanity**  
 Tanzania

Drawn by  
Jackline Juvenal

Date  
August 2025

Modified by  
Mallya, F.T

Date  
August 2025

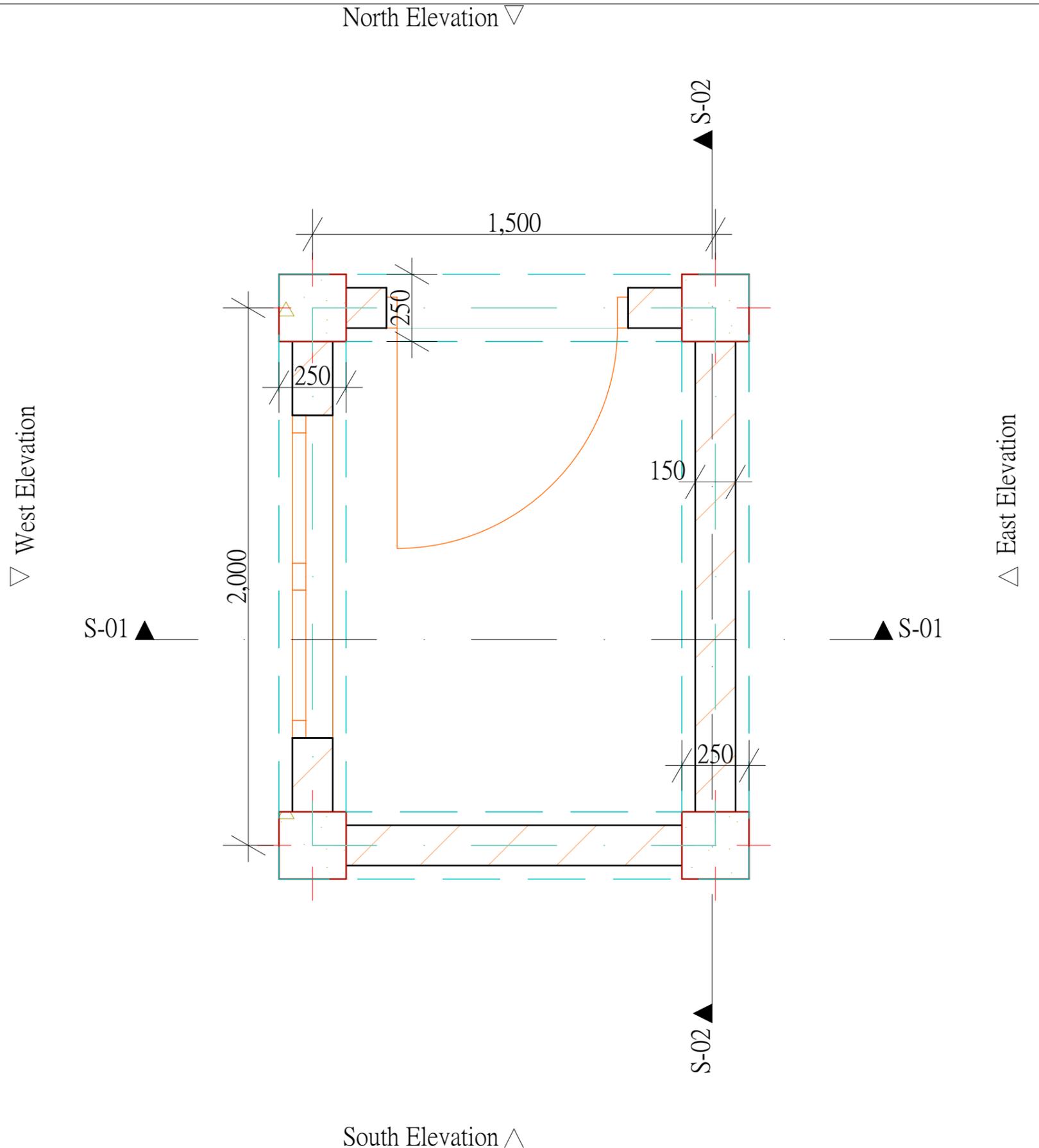
Checked by  
Sasoché, M.M

Date  
August 2025

Drawing Scale  
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Layout ID  
A.01.1

Revision



Revision History			
RevID	ChID	Change Name	Date

Proposed Construction of Toilet Blocks

Bahi  
Dodoma  
Tanzania

Drawing Name  
Water Riser Tank Floor Plan

Client Details

HABITAT FOR UMANITY



Drawn by Jackline Juvenal	Date August 2025
Modified by Mallya, F.T	Date August 2025
Checked by Sasoché, M.M	Date August 2025

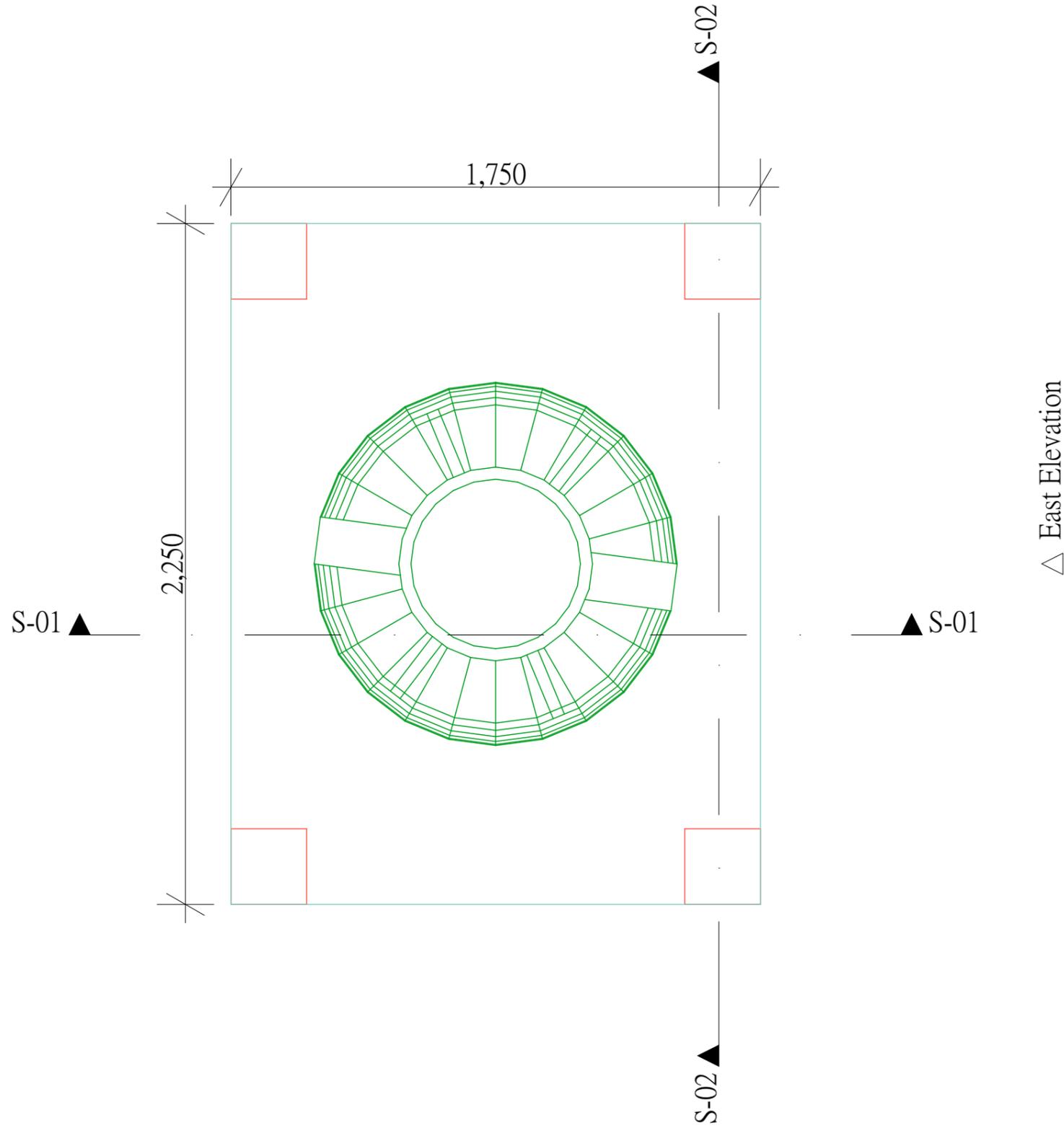
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Layout ID  
A.01.2

Revision

North Elevation ∇

▽ West Elevation



South Elevation ^

Revision History

RevID	ChID	Change Name	Date

Proposed Construction of Toilet Blocks

Bahi  
Dodoma  
Tanzania

Drawing Name

Water Riser Tank Top Plan

Client Details

HABITAT FOR UMANITY



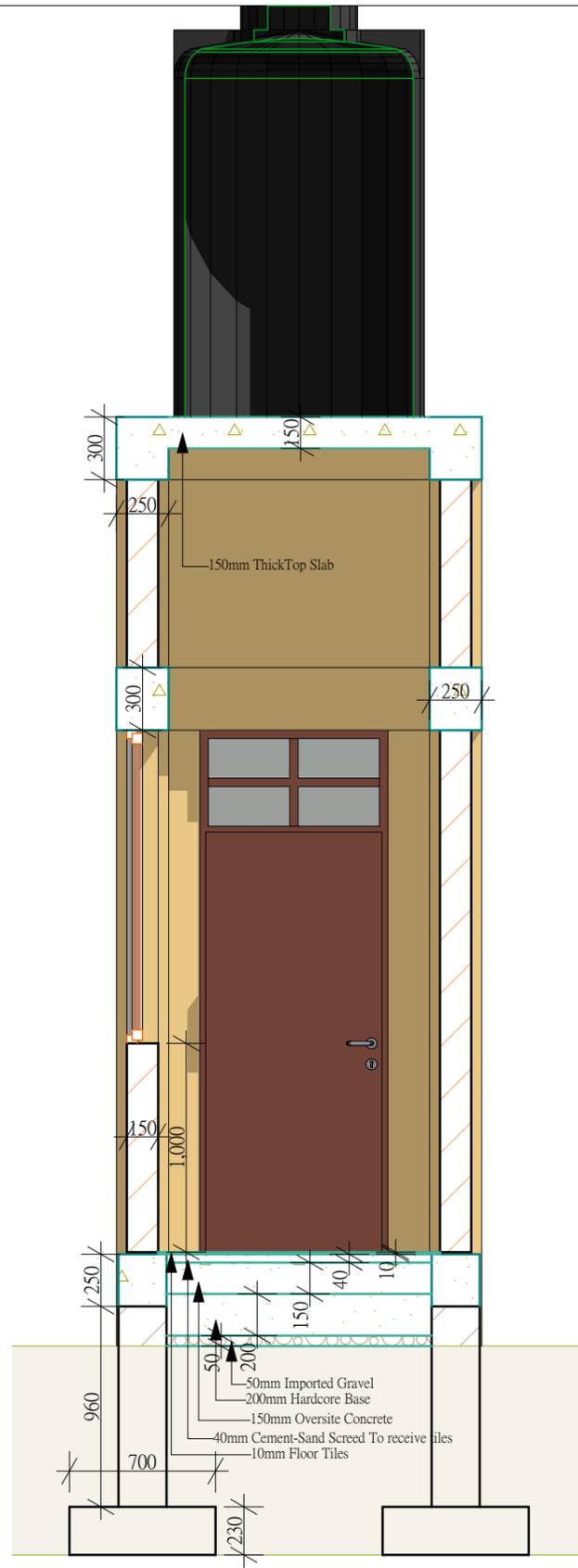
Drawn by	Date
Jackline Juvenal	August 2025

Modified by	Date
Mallya, F.T	August 2025

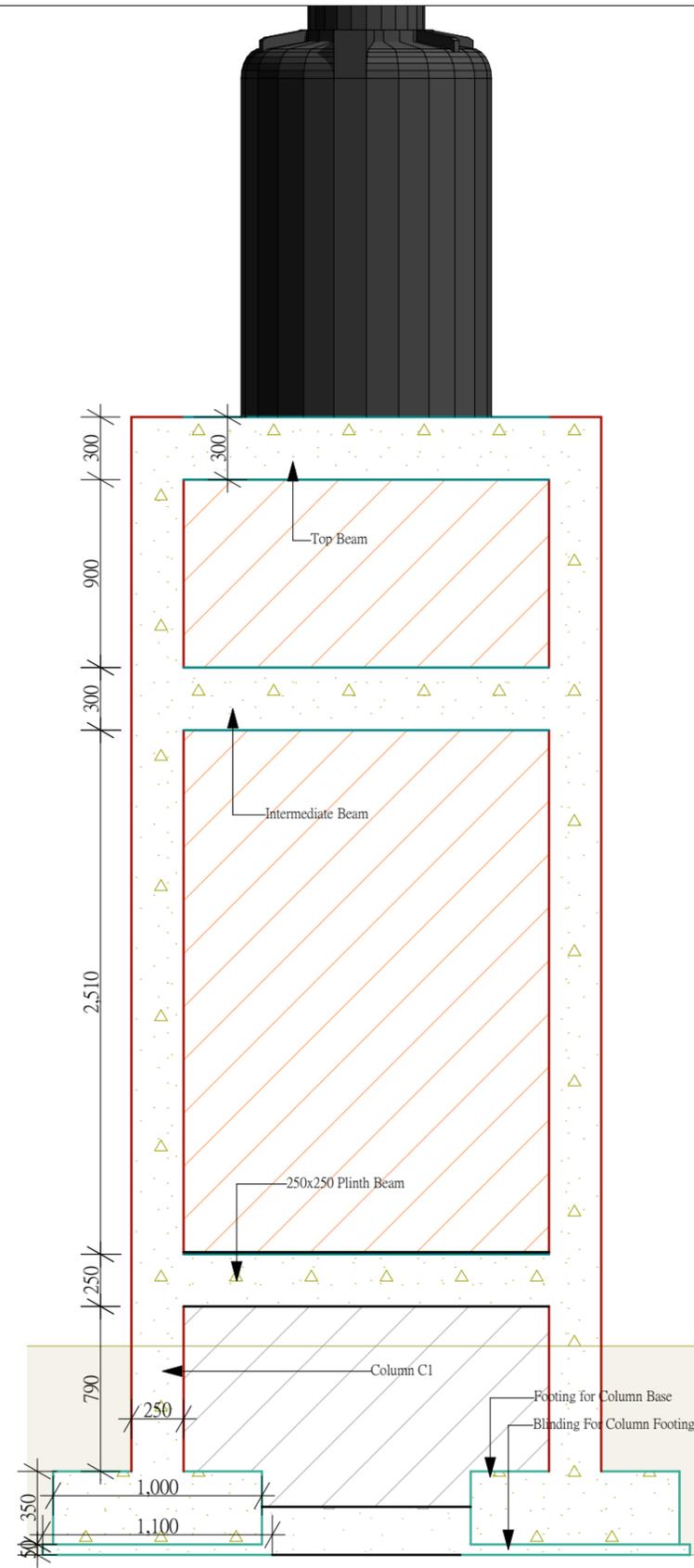
Checked by	Date
Sasoché, M.M	August 2025

Drawing Scale	1:16.85
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Layout ID	Revision
A.01.3	



S-01 Building Section (1) 1:31.40



S-02 Building Section (1) 1:31.40

Revision History			
RevID	ChID	Change Name	Date

Proposed Construction of Toilet Blocks

Bahi  
Dodoma  
Tanzania

Drawing Name  
Building Section (1)

Client Details  
**HABITAT FOR UMANITY**  
  
**Habitat for Humanity**  
 Tanzania

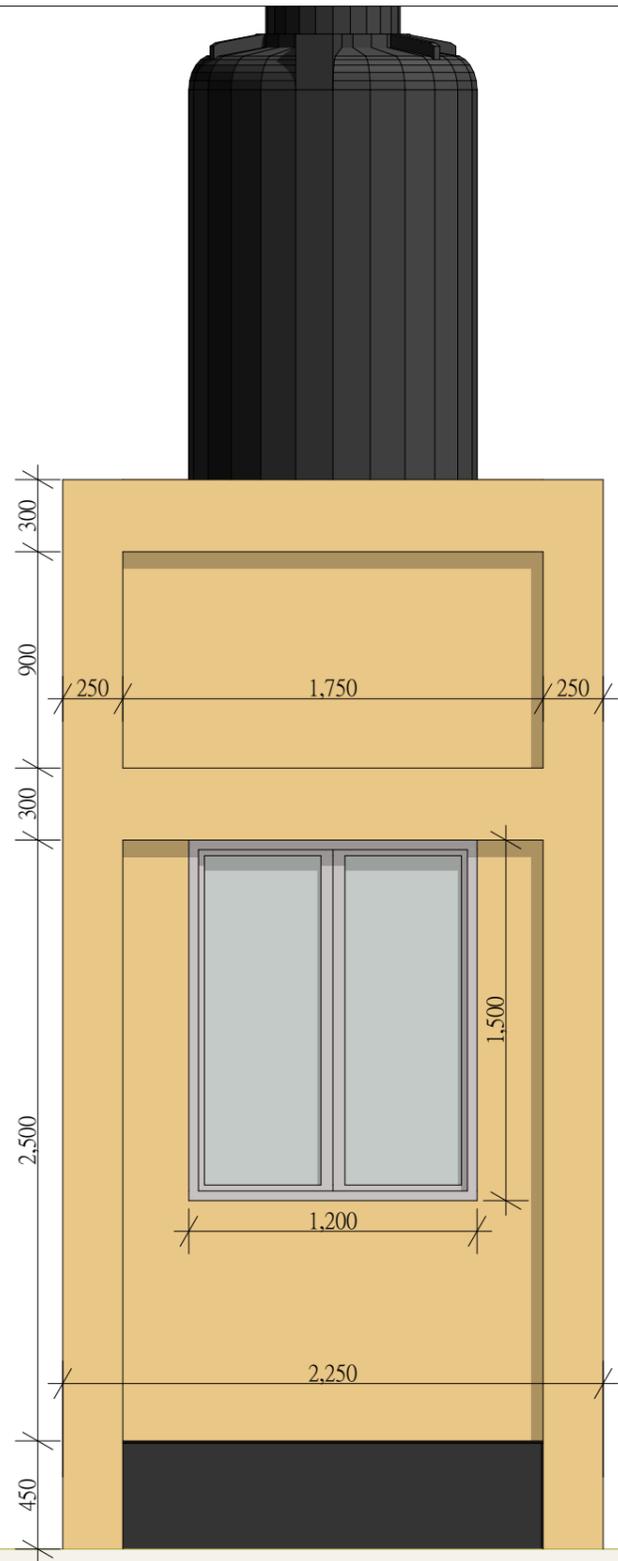
Drawn by  
Jackline Juvenal  
Date  
August 2025

Modified by  
Mallya, F.T  
Date  
August 2025

Checked by  
Sasoché, M.M  
Date  
August 2025

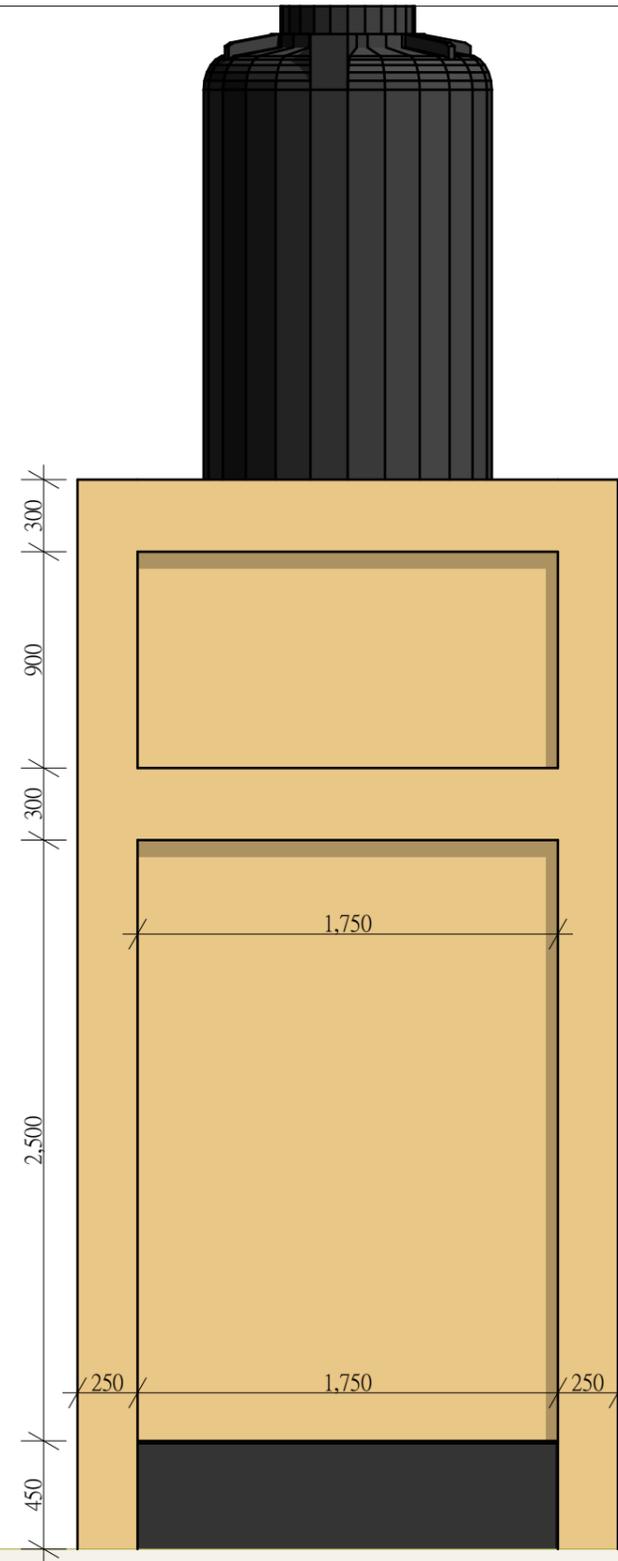
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Layout ID  
A.02.1  
Revision



West Elevation (4)

1:29.42



East Elevation (3)

1:29.42

Revision History			
RevID	ChID	Change Name	Date

Proposed Construction of Toilet Blocks

Bahi  
Dodoma  
Tanzania

Drawing Name  
West Elevation (4), East Elevation (3)

Client Details

HABITAT FOR UMANITY



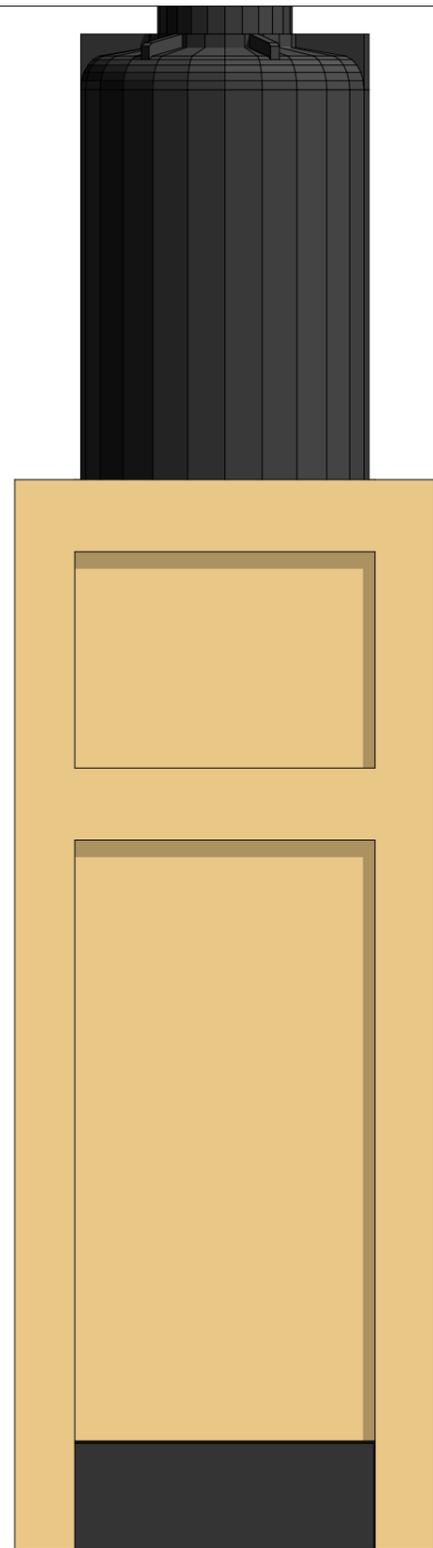
Drawn by Jackline Juvenal Date August 2025

Modified by Mallya, F.T Date August 2025

Checked by Sasoche, M.M Date August 2025

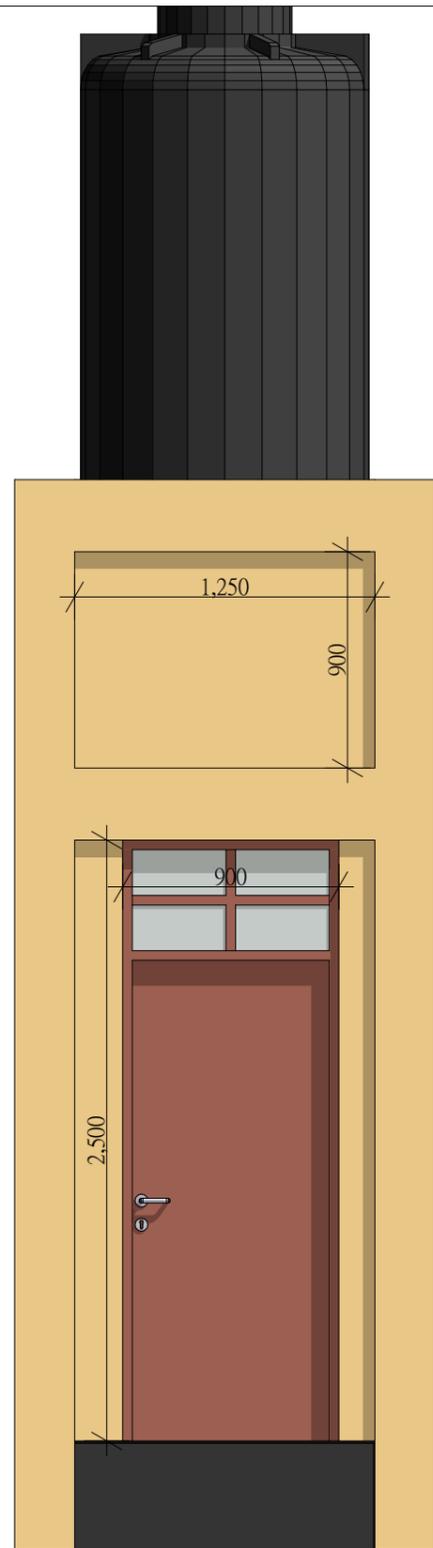
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Layout ID A.03.1 Revision



South Elevation (4)

1:29.42



North Elevation (4)

1:29.42

Revision History			
RevID	ChID	Change Name	Date

Proposed Construction of Toilet Blocks

Bahi  
Dodoma  
Tanzania

Drawing Name  
South Elevation (4), North Elevation (4)

Client Details

HABITAT FOR UMANITY



Drawn by: Jackline Juvenal  
Date: August 2025

Modified by: Mallya, F.T  
Date: August 2025

Checked by: Sasoche, M.M  
Date: August 2025

Drawing Scale: 1:29.42

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