

Main Project for:

SEPTIC TANK

- Model 2 – 15 pieces

ARCHITECTURE
&
STRUCTURE

TECHNICAL DESCRIPTION

MODEL 2 – SEPTIC TANK

Model 2 – 15 pieces

Model 2 – 20 pieces

GENERAL:

For the preparation of the project for the manure storage facility, the designer has based the work on the request of the investor, as well as on the quantity and volume of manure that the septic pit must accommodate.

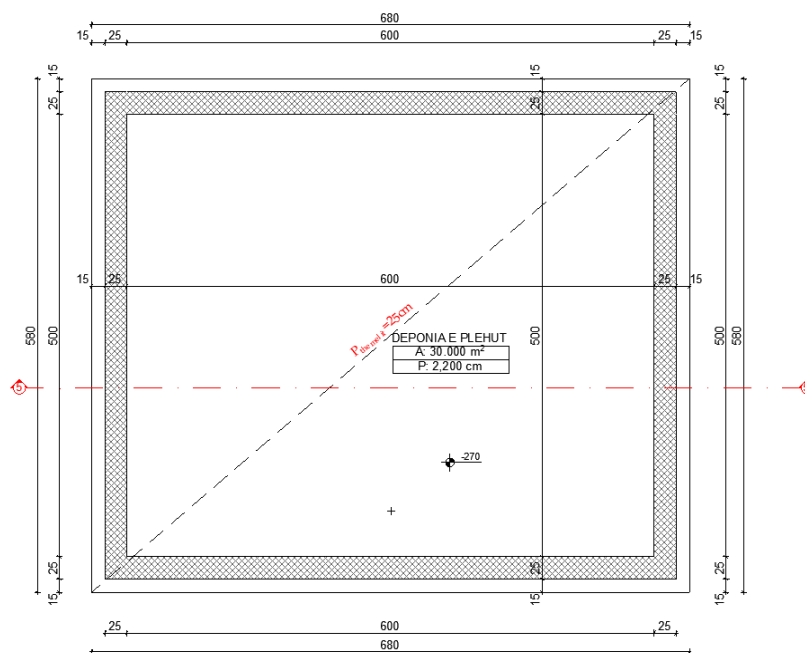
Before proceeding with the construction of a septic pit, preparatory works must be carried out, which include:

- The planned terrain for the installation of the septic pit must be examined to ensure that the soil structure is suitable for construction.
- Checking the depth of groundwater – the depth of the pit installation and the filtration method depend on this parameter; therefore, it is important to determine it accurately.

FUNCTION:

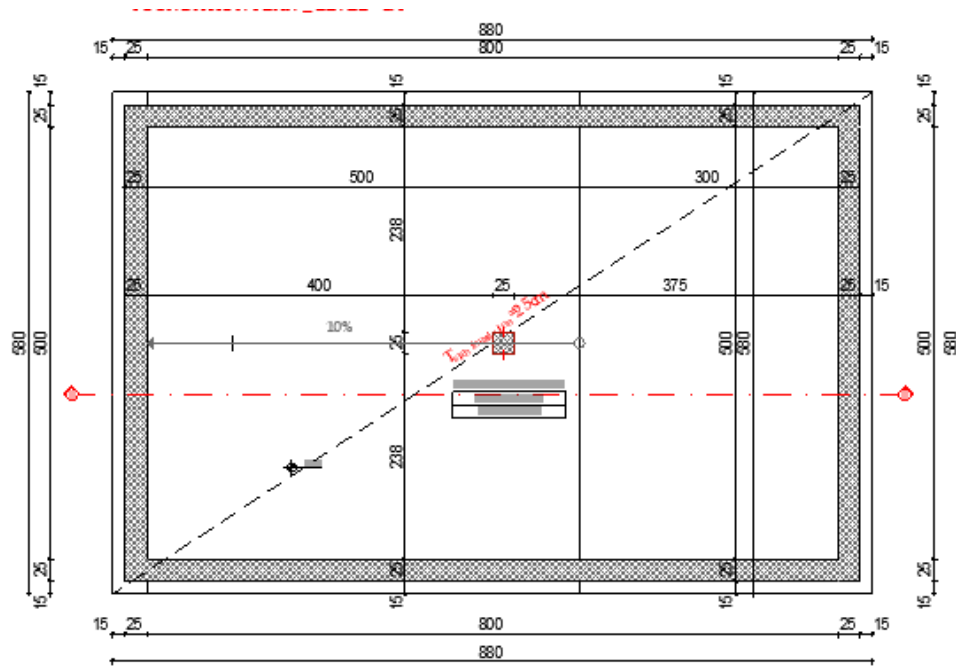
MODEL 2 – 15 pieces

Septic Tank – MODEL 2 FOR 15 PIECES – It has net base dimensions of 6.0 m × 5.0 m, a net area of 30 m², and a clear floor height of 2.5 m (*floor-to-floor height* $h = 2.7$ m). The tank has only one compartment, as shown in the figure.



MODEL 2 – 20 Pieces

Septic Tank – MODEL 2 FOR 20 PIECES – It has net base dimensions of 8.0 m × 5.0 m, a net area of 40 m², and a clear floor height of 2.5 m (*floor-to-floor height* $h = 2.7$ m). The tank has only one compartment, as shown in the figure.



Model for 20 pieces

The following types of works are foreseen for the execution of this project:

1. Preparatory Works
2. Earth and Gravel Works
3. Foundation Works
4. Wall and Intermediate Slab Works

01. Preparatory Works

In this phase of the works, the construction site will be enclosed with temporary installation materials which will be removed after the completion of the works. This phase also includes the informational marking of the structure on the terrain with the assistance of a geodesy engineer, as well as the installation of temporary networks that will be used during the construction of the facility, such as the electrical network and the water supply and sewerage system.

02. Earth and Gravel Works

This phase includes the removal of the humus layer to a depth of 20 cm over the entire area where the structure will be built, followed by the excavation of the soil for the opening of the storage pit to the required depth as presented in the graphical part of the project.

After reaching the required excavation depth according to the project, the natural soil will be compacted using mechanical equipment in order to achieve the best possible load-bearing soil compactness. After the soil compaction is completed, a gravel layer with granulation from 0.0 mm to 32 mm will be laid with a thickness of up to 25 cm,

followed again by compaction using mechanical equipment until the required compactness is achieved.

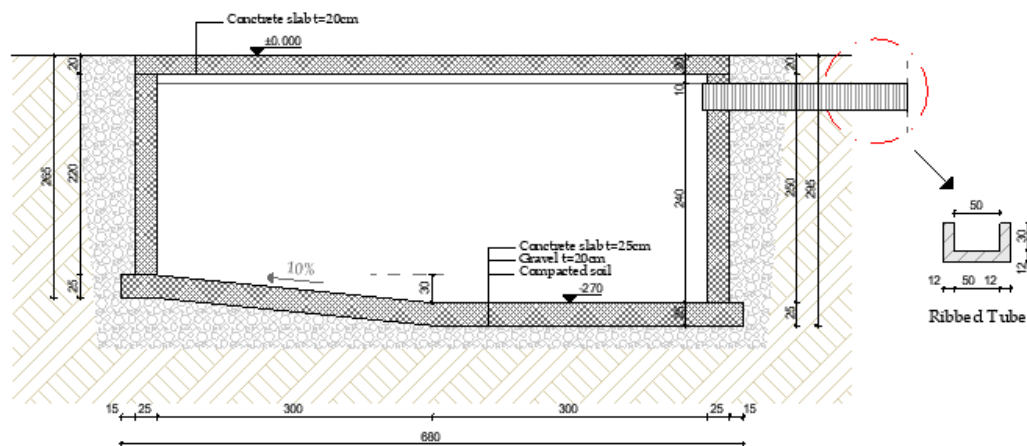
03. Foundation Works

After the excavation of the pit and the filling with gravel, the foundations will be constructed with reinforced concrete according to the structural calculation project. The selected foundations will be slab foundations with a thickness of $t = 25 \text{ cm}$.

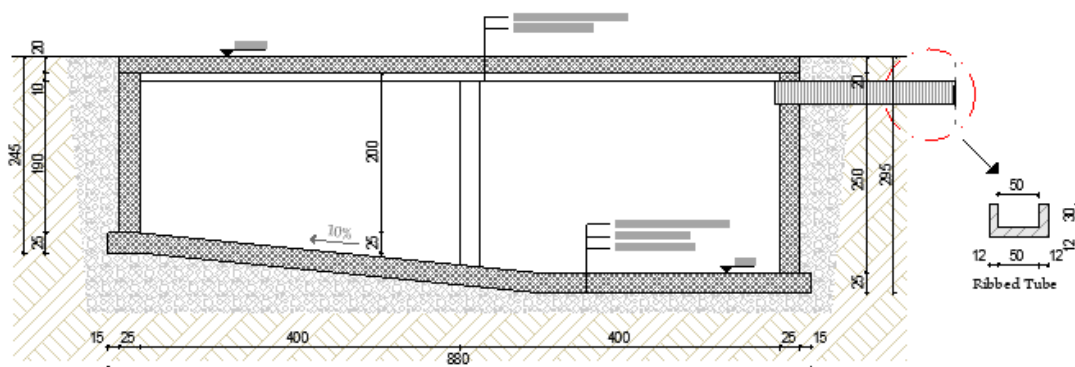
04. Wall and Intermediate Slab Works

The walls of the septic pits will be constructed from reinforced concrete with a wall thickness of $t = 25$ cm, which will be placed underground.

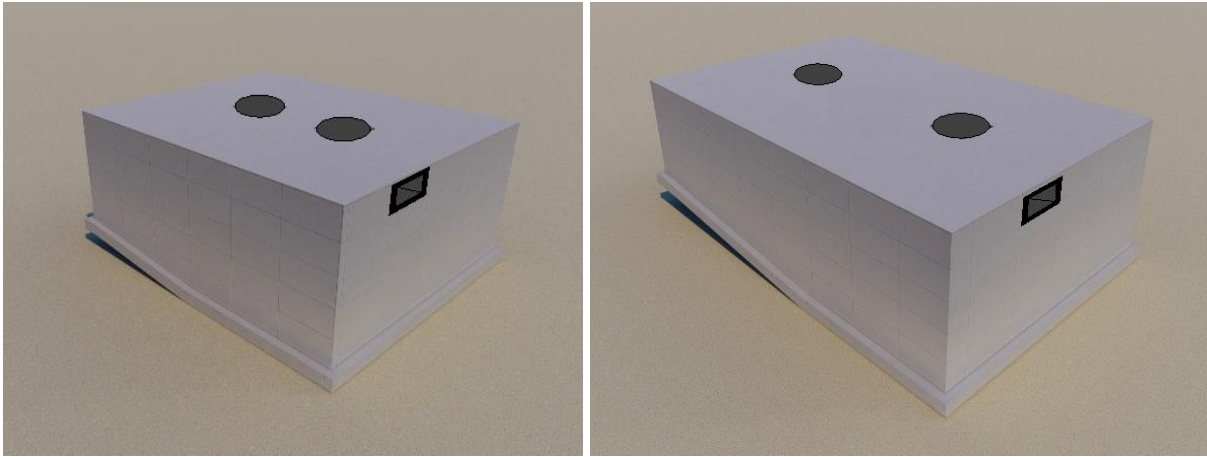
Above the walls, an intermediate slab will be installed, which will also be constructed of reinforced concrete with a thickness of $t = 20$ cm, to the project.



Model for 15 pieces



Model for 20 pieces

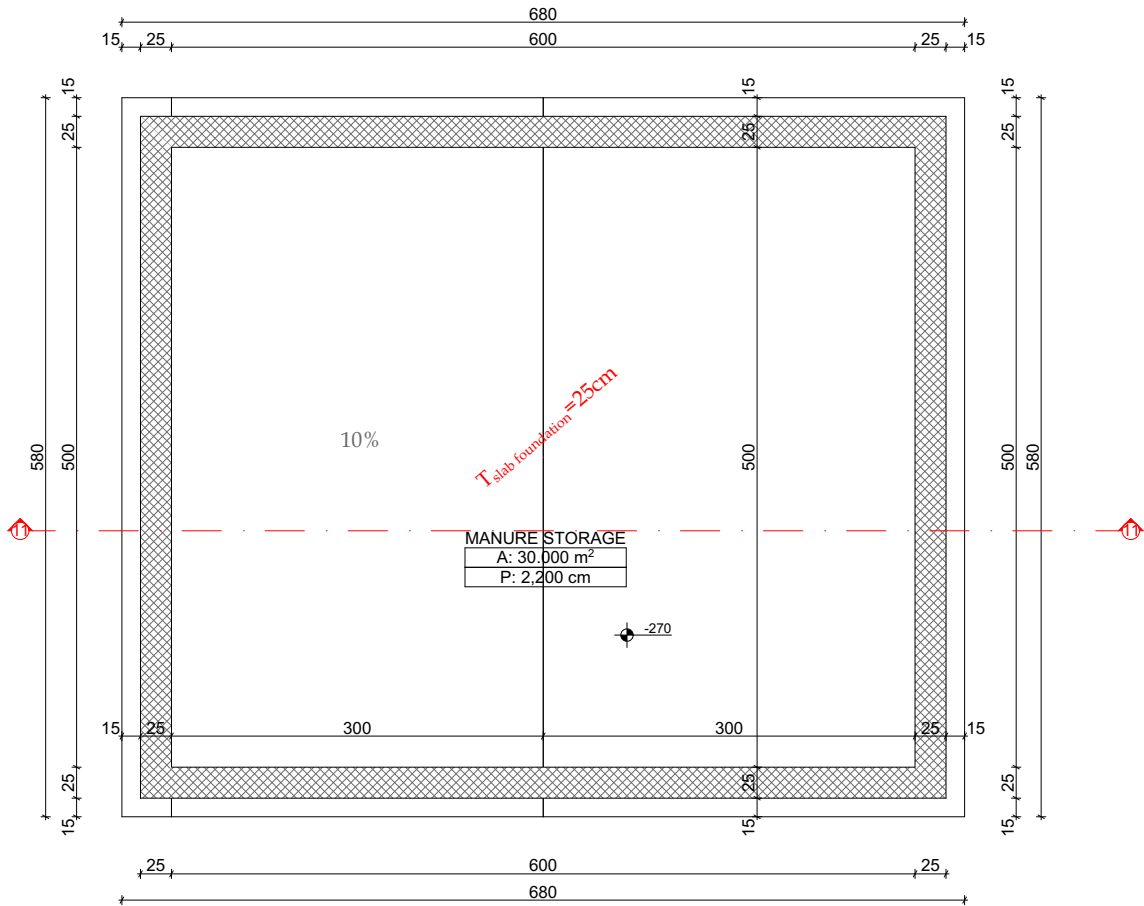


3D View – Model for 15 pieces and 20 pieces

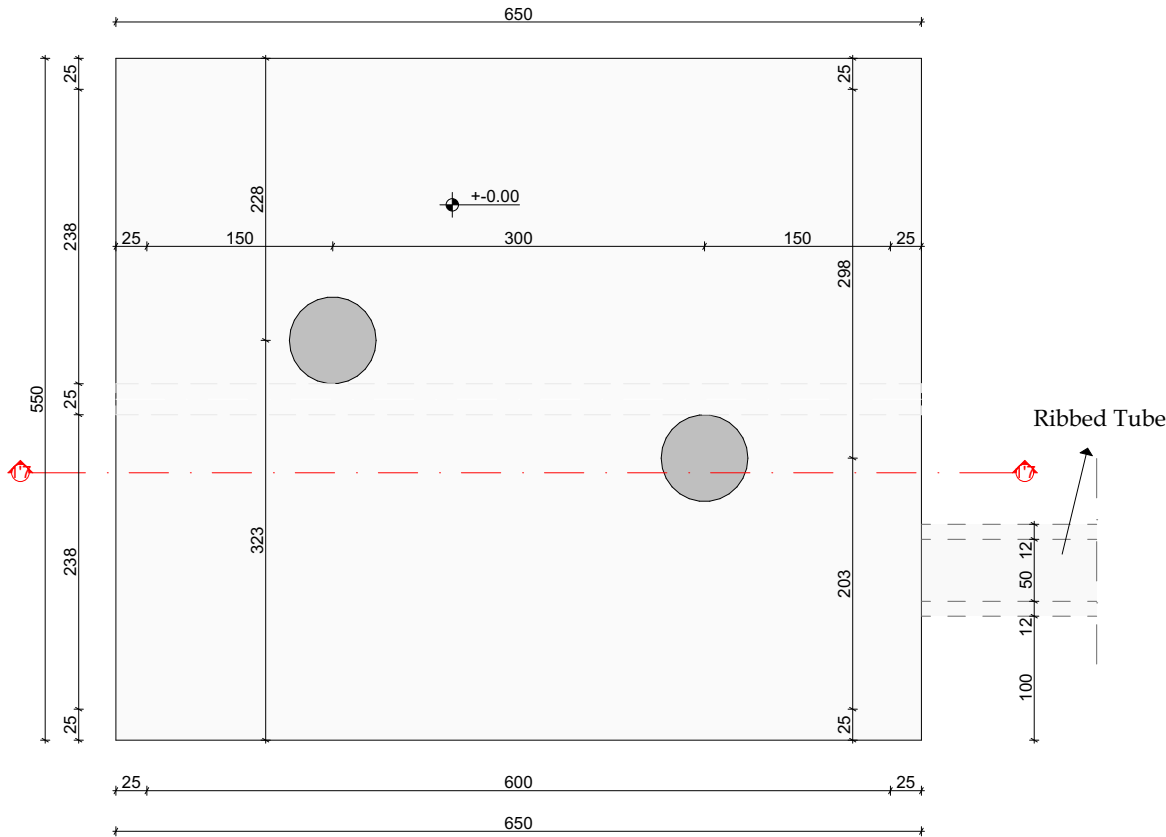
Final Note – All the above-mentioned works must be carried out in accordance with the project, preliminary calculations, and the provided details. All works, as well as the materials used, must be of high quality, for which the contractor is fully responsible.

Additional Notes:

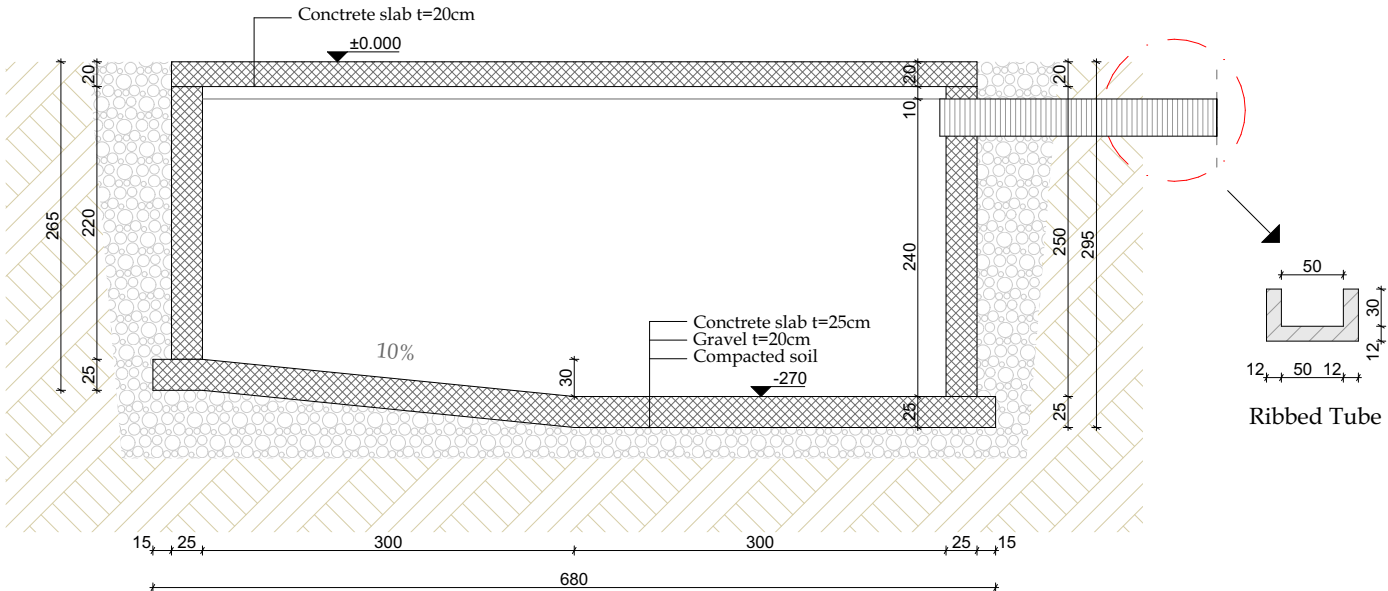
- FOUNDATION PLAN _ LEVEL - 270



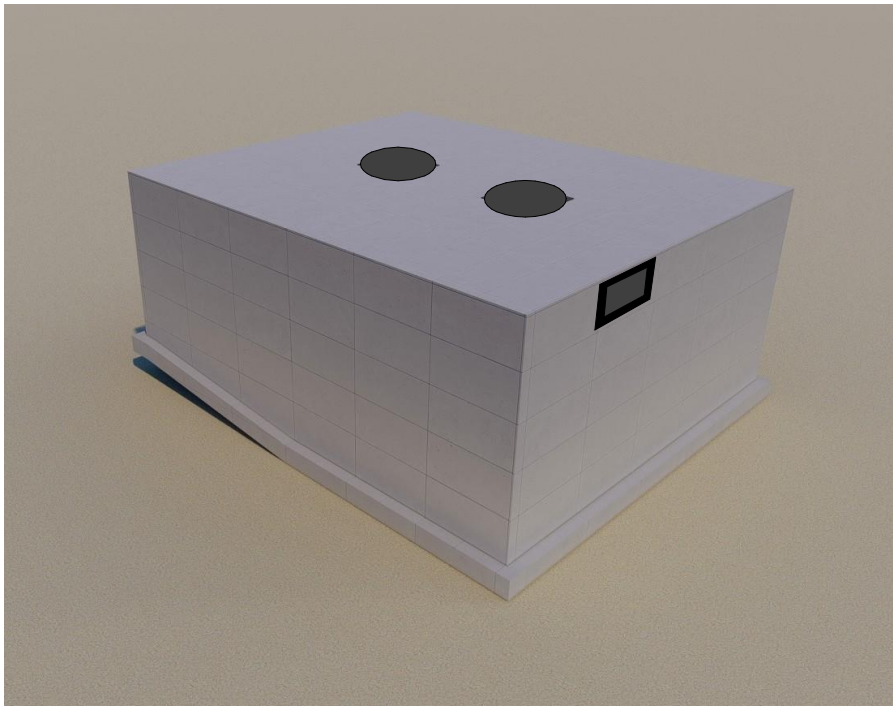
- BASE PLAN _ LEVEL +0.00



- SECTION 1-1

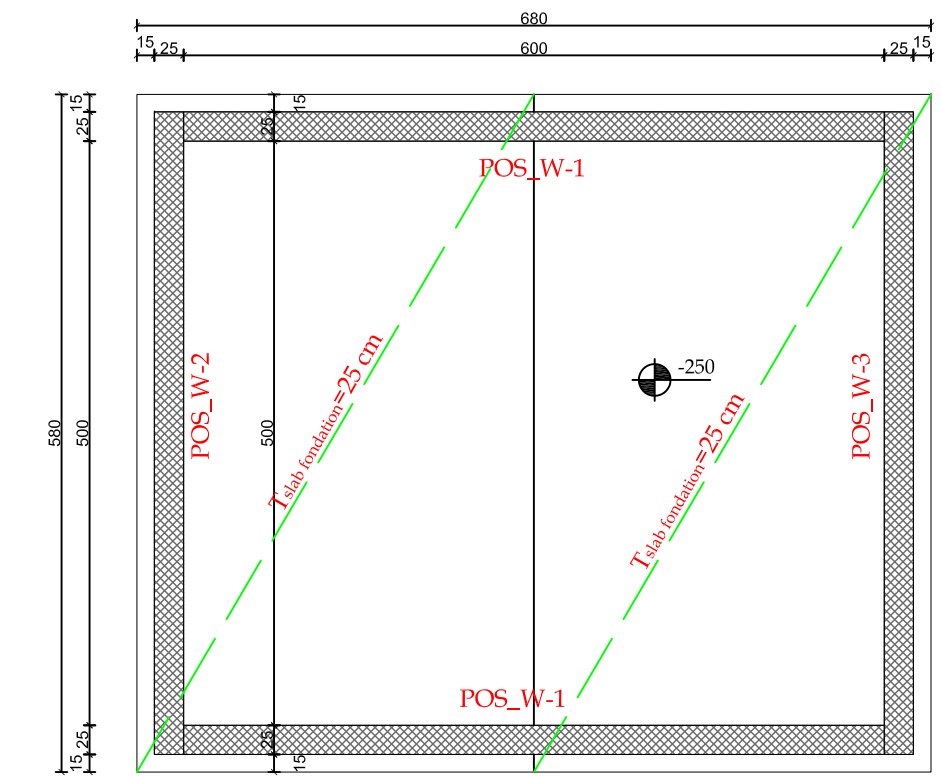


- 3 D PRESENTATION

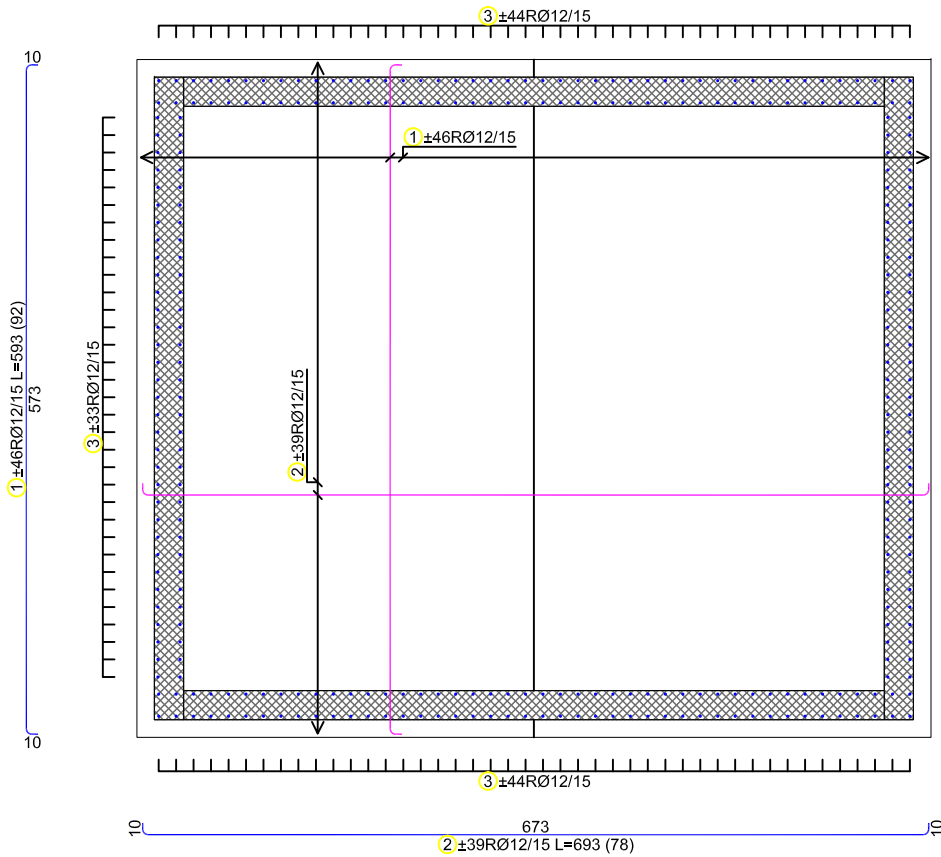


Project name:	Architecture Project
Position name:	Septic Tank _ 15 pieces
Scale:	1/50
Date:	January/2026
Page nr:	1
Model:	Model 2 (15 pieces)

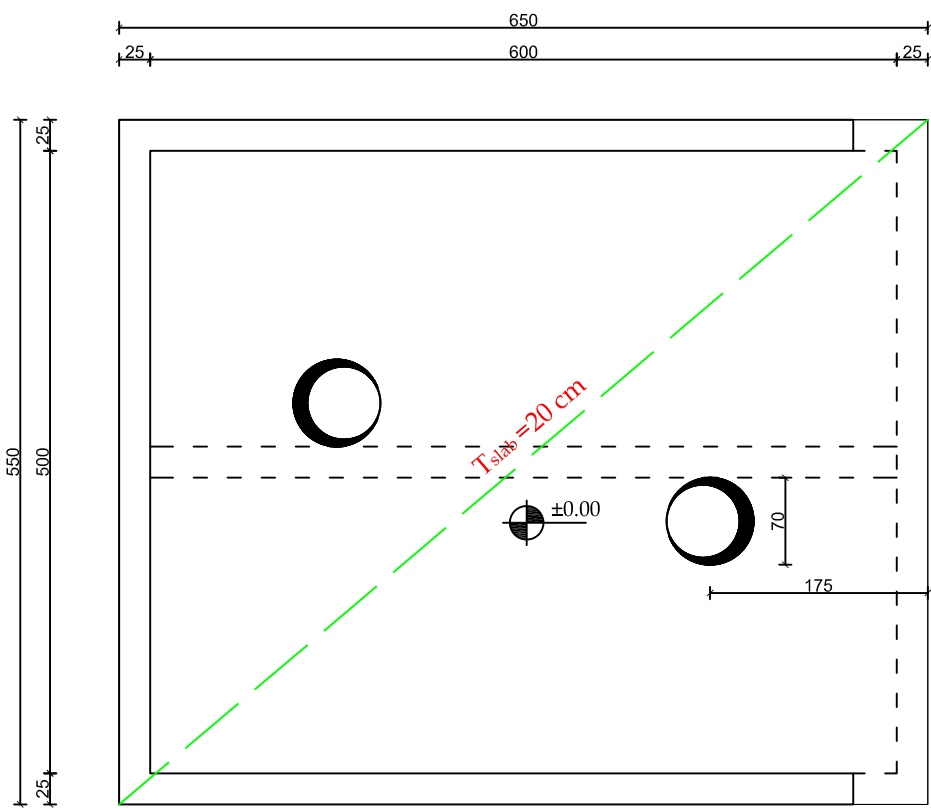
- FOUNDATION PLAN _ LEVEL - 250



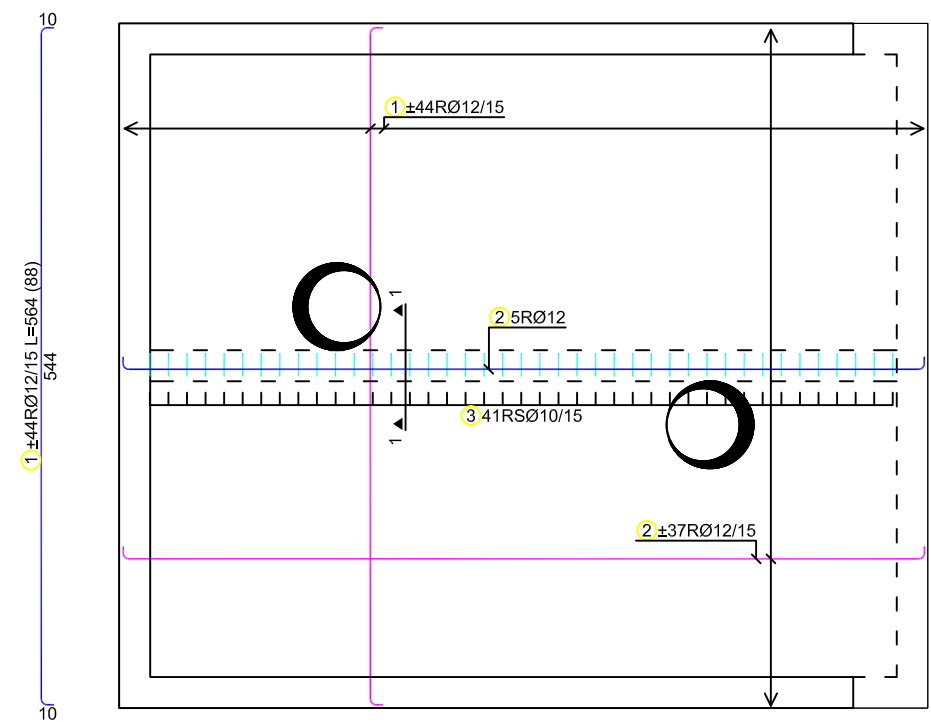
- FOUNDATION REINFORCEMENT



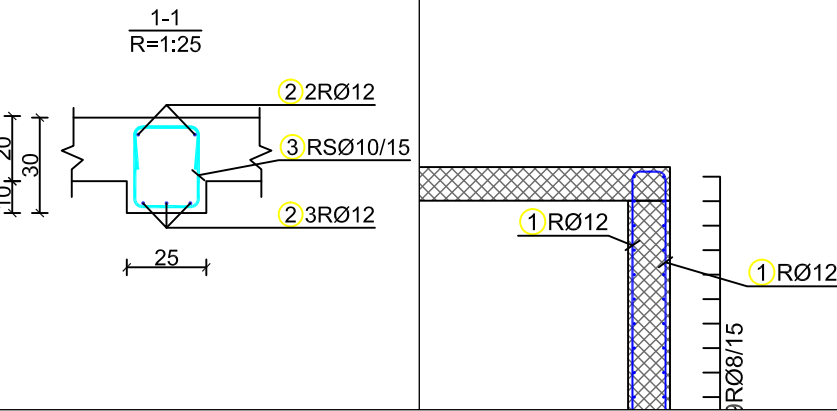
- BASE PLAN _ LEVEL ±0.00



- BASE PLAN REINFORCEMENT



- DETAIL

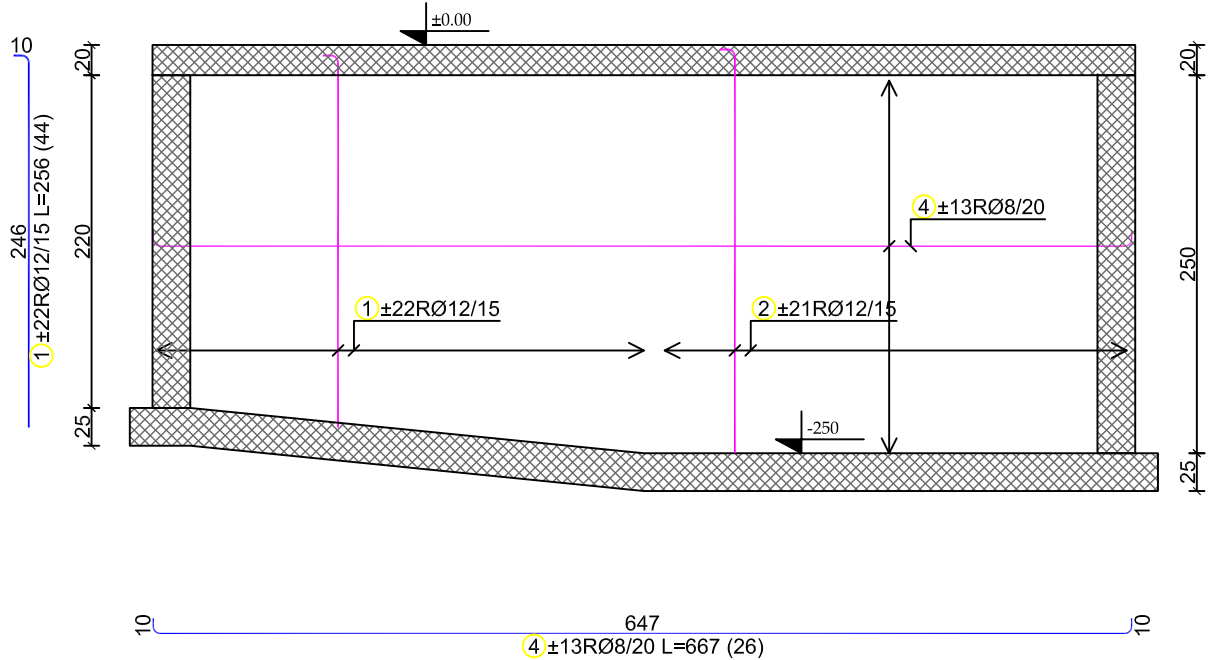


- Bars - specification

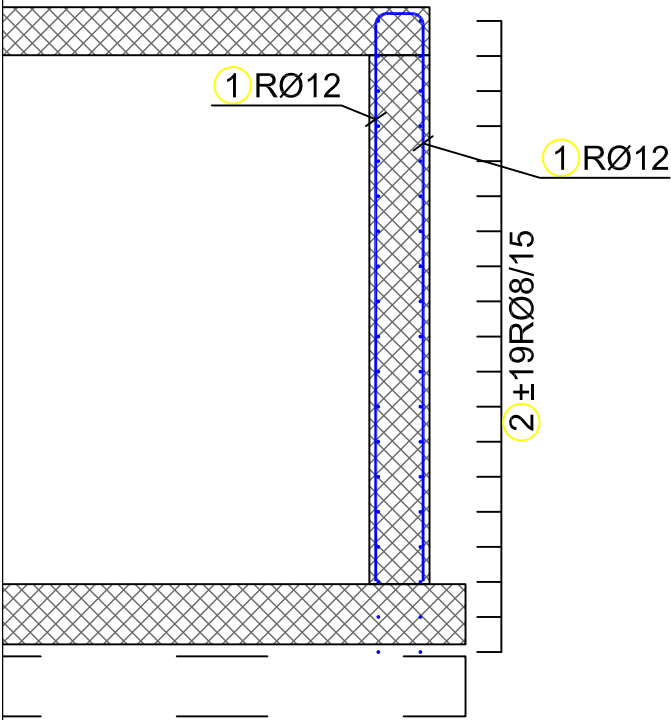
Shufrat - specifikimi						
emri	forma dhe përmasat [cm]	Ø	lg [m]	n [copë]	lg n [m]	Napomena
PLL, E THEMELIT - ARMIMI (1 pcs.)						
1		12	5.93	92	545.56	
2		12	6.93	78	540.54	
3		12	1.20	308	369.60	
PLL, E MBULESES - ARMIMI (1 pcs.)						
1		12	5.64	88	496.32	
2		12	6.64	79	524.56	
3		10	1.32	41	54.12	

Position name:	POS_Slabs (reinforcement)
Project name:	GROPA SEPTIKE_15 pcs
Scale:	1/50
Date:	Januar/2026
Page nr:	1
Model:	MODEL 2 - (pcs-15)

- POS_W-1 REINFORCEMENT



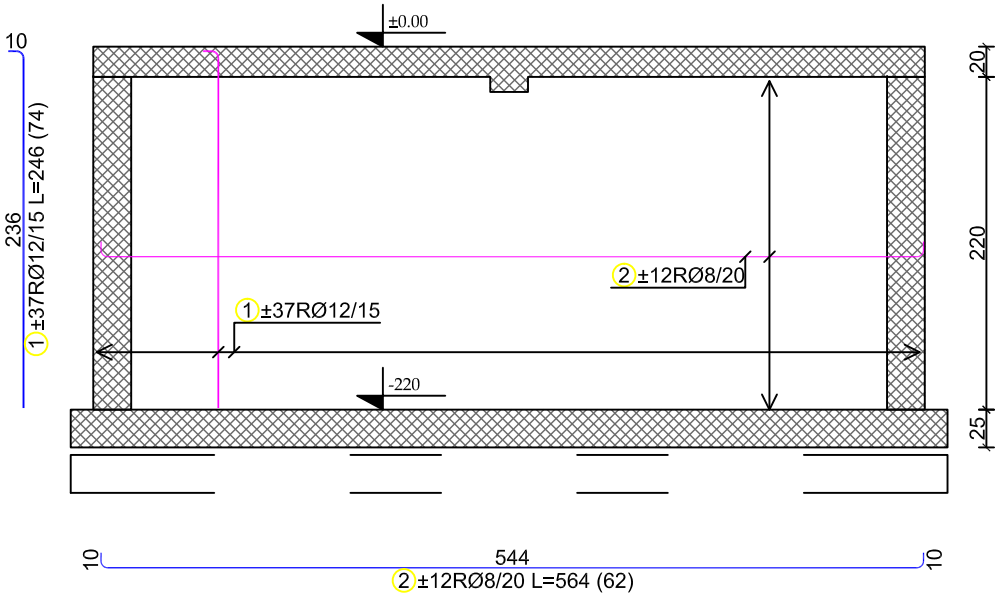
- DETAIL



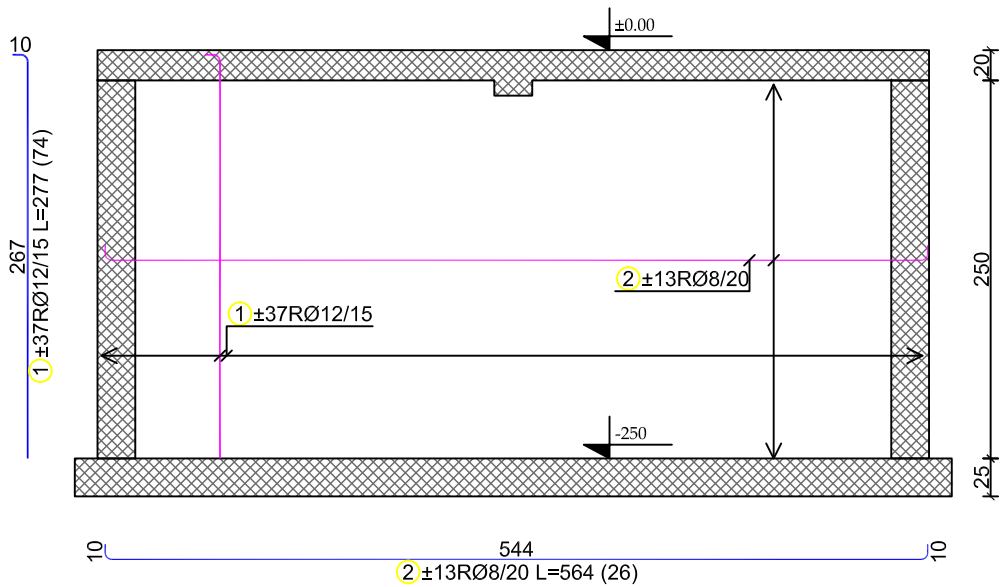
- Bars - specification

Shuftrat - specifikimi						
emri	forma dhe përmasat [cm]	$\varnothing$	lg [m]	n [copë]	lg _n [m]	Napomena
POS_W-1 (2 pcs.)						
1		12	2.56	88	225.28	
2		12	2.77	84	232.68	
4		8	6.67	52	346.84	
POS_W-2 (1 pcs.)						
1		12	2.46	74	182.04	
2		8	5.64	62	349.68	
POS_W-3 (1 pcs.)						
1		12	2.77	74	204.98	
2		8	5.64	26	146.64	

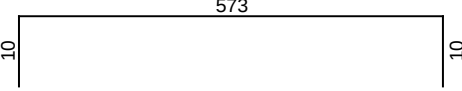
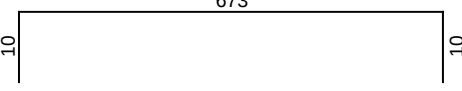
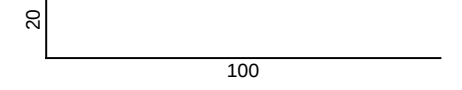
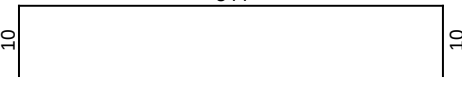
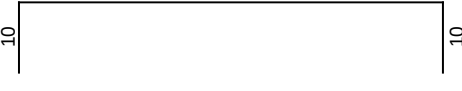
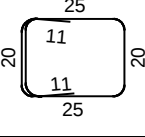
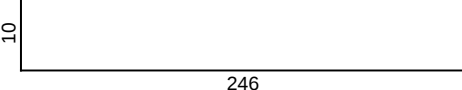
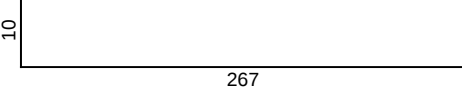
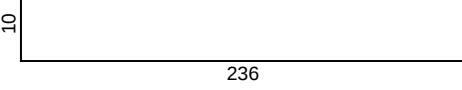
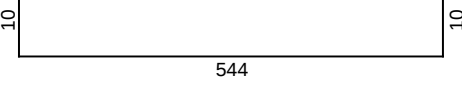
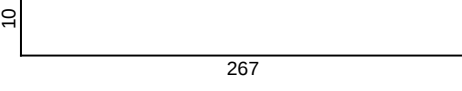
- POS_W-2 REINFORCEMENT

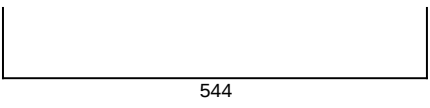


- POS_W-3 REINFORCEMENT



Position name:	POS_Wall (reinforcement)
Project name:	GROPA SEPTIKE_15 pcs
Scale:	1/50
Date:	Januar/2026
Page nr:	2
Model:	MODEL 2 - (pcs-15)

Shufrat - specifikimi						
emri	forma dhe përmasat [cm]	Ø	lg [m]	n [copë]	lg _n [m]	Napomena
PLL. E THEMELIT - ARMIMI (1 pcs.)						
1		12	5.93	92	545.56	
2		12	6.93	78	540.54	
3		12	1.20	308	369.60	
PLL. E MBULESES - ARMIMI (1 pcs.)						
1		12	5.64	88	496.32	
2		12	6.64	79	524.56	
3		10	1.32	41	54.12	
POS_W-1 (2 pcs.)						
1		12	2.56	88	225.28	
2		12	2.77	84	232.68	
4		8	6.67	52	346.84	
POS_W-2 (1 pcs.)						
1		12	2.46	74	182.04	
2		8	5.64	62	349.68	
POS_W-3 (1 pcs.)						
1		12	2.77	74	204.98	

Shufrat - specifikimi						
emri	forma dhe përmasat [cm]	Ø	lg [m]	n [copë]	lg _n [m]	Napomena
2		8	5.64	26	146.64	

Shufrat - rinumërimi			
Ø [mm]	lgn [m]	Pesha njësi [kg/m']	Pesha [kg]
S500			
8	843.16	0.40	333.05
10	54.12	0.62	33.39
12	3321.56	0.89	2949.55
I përgjithshëm (S500)			3315.99
I përgjithshëm			3315.99