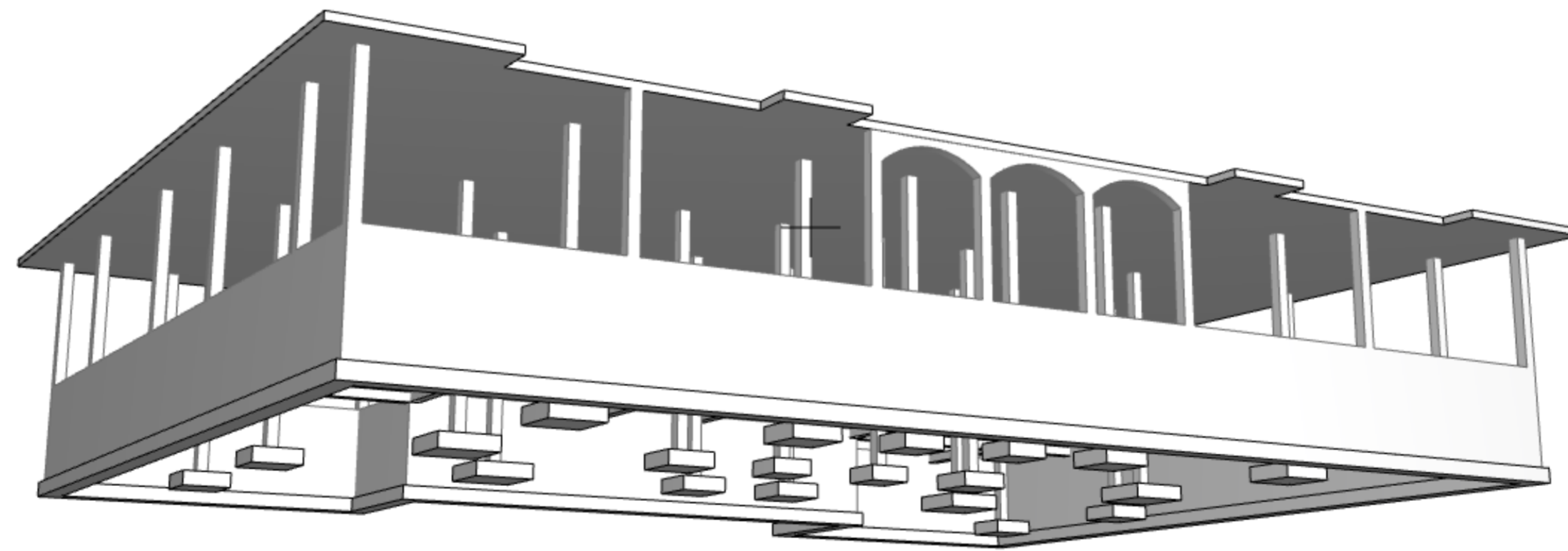


ARCHITECTURAL PLAN

KINDERGARTEN

Laghidze street,
Zugdidi

Project Structural Part



Content

- 1 ...Title page
- 2 ...Table of Contents, Explanatory Letter
- 3 ...Renders
- 4 - 6 ...LIRA program data
- 7 ...Excavation Plan, section
- 8 -11 ...Foundation Drawings
- 12 -14 ...Column Drawings
- 15 -16 ...Gird Drawings
- 17 -21 ...Slab Drawings
- 22 ...Connection of Lintels, pillars and walls
- 23 ...Exetrnal staircases, staircase landings
and wheelchair ramps at 0.05 level
- 24 -27 ...Roof structures

Explanatory Letter
General Information

Construction site (cadastre code 43.31.69.416) is located in Zugdidi city, according to the standards of "Construction Climatology" the climatic characteristics of the construction site are:

- Average annual temperature + 13.8 ° C
- Absolute maximum temperature + 40 ° C
- Absolute minimum temperature - 19 ° C
- Annual rainfall - 1723 mm
- Snow cover weight - 0.5 kPa
- Standard height of seasonal ground frost - 0 m
- Standard wind pressure 0.3 kPa
- The prevailing wind direction - East
- According to the map of seismic zones, Zugdidi belongs to the 8-point seismic zone.
- According to the geological findings, the reporting seismicity of the construction site is 9 points.

From the engineering-geological point of view, the construction site is in satisfactory condition, no physical-geological phenomena (landslides, downfalls, etc.) are observed.

- Based on the geological survey (attached to the project) the basis of the foundation is taken II engineering-geological element - with the following technical indicators:

Clay, reddish-brown, with rusty and gray spots, without solid additions (dQrv)

E-G Element	Characteristics of physical-mechanical properties	Index	UoM	Numeric value
1	Density	ρ	g/cm3	1.74
2	Frame density	ρd	'''	1.42
3	Solid particle density	ρs	'''	2.72
4	Porosity	n	%	47.71
5	Porosity coefficient	e	particle	0.912
6	Humidity	W	%	22.7
7	Moisture at the edge of fluctuation	WL	particle	41.85
8	Moisture at the edge of plasticity	Wp	'''	22.72
9	The number of plasticity	Ip		19.1
10	Flactuation indicator	IL		-0.02
11	Angle of friction inside	φ	Degree	14
12	Specific traction	C	kPa	0.25
13	Deformation module	E0	mPa	15
14	Reporting impedance	R0	kPa	200
15	Poisson's coefficient	μ		0.38

The report of the building design scheme is executed in the program "LIRA-SAPR".
The building represented in the project is a one-story stone building with an average floor height of 1.0 meters above ground level. The first-floor level marker 0.00 corresponds to absolute marker 106.0. The floor height of the building is 3.4 meters from floor to ceiling.
Natural sand-gravel mixture (fraction 0.5-70mm) should be used for backfilling and arrangement of imbankement. It is necessary to compact it in layers every 20 cm with a vibro-ramming machine.
The foundations are projected to be strip foundation outside and the pad foundation inside the building and the gravel layer will be arranged under them.
External wall-filling is made of reinforced concrete with a small wall block of pumice of 30 cm thickness.
The bearing structure of the building is a complex reinforced concrete frame, with a spatially framed structure made of reinforced concrete columns, monolithic reinforced concrete girds, and reinforced concrete floor slabs; on external walls, the concrete casting of columns is possible in parallel with masonry works.
Partitions are made of reinforced small pumice block of 10 cm thickness.
The grade of the small pumice blocks shall be not less than M70 (volume weight 800 kg / m3), therefore the grade of the mortar used for the masonry works shall be not less than M70.
The floors in the bathrooms are tiled, and the floors in the rooms are wooden. Floor insulation is made with XPS tiles, and ceiling insulation is made with fiberglass. Suspended ceilings in the bathrooms and kitchen are made of plastic and in the rooms - of gypsum board.
The bearing structure of the roof is wood, and the roof layer is painted metal tiles.
The windows are made of double-glazed PVC profiles.
Entrance doors are made of steel and iso-aluminum, in bathroom units the doors are made of PVC and in rooms - of wood (so-called MDF).
The external staircases and staircase landings will be covered with basalt tiles. The concrete walkway will be arranged around the building. The concrete of B25 grade will be used in monolithic frame structures. The external surfaces of the walls, columns and foundation slabs before the ground backfill must be treated with bitumen mastic up to 0.00 level and waterproofed by Linochrome in two layers.
Dimensions in drawings are given in millimeters and meters, benchmarks in meters. All sheets of the structural part shall be considered as one whole and the data of the other sheets as well as the architectural drawings shall be taken into account when considering any sheet. The bending of structural reinforcement elements shall be performed in a cold mechanical manner. After the excavation, the ground condition should be additionally examined.
Consequently, it is possible to adjust the foundation structure.
All changes made to the project during construction must be agreed with the project authors.

Concrete content B25 - 380 m3 B15 - 48 m3
Reinforcement A500 hp - 34 tons A240 - 4 tons

პროექტების დროს გამოყენებული ლიტერატურა:
- *CHuT. 2.03.01-84** - "ბეტონის და რკინაბეტონის კონსტრუქციები"
- *CHuT. II-7-81** - "შენიშვნები სეისმურ რაიონებში"
- *CHuT. 2.01.07-85** - "საქართველოში და ზემოქვეყნებში"
- *CHuT 2.02.01-83** - "შენიშვნების და ნაგებობების ფუნქციონირების"
- *ГОСТ 14098-91* - "არმატურის და ლითონის სასაბაზო ელემენტების შედუღება რკინაბეტონის კონსტრუქციებში"
უხაფრთხოება: მშენებლობის პროცესში საჭიროა ვიხედოდეთ სამშენებლო ნორმების: *CHuT. III-4-80**-ის მოთხოვნების შესაბამისად და მკაცრად დაიცვათ უსაფრთხოების წესები.

Project address:
Georgia,
Zugdidi

Stage:
Architectural project

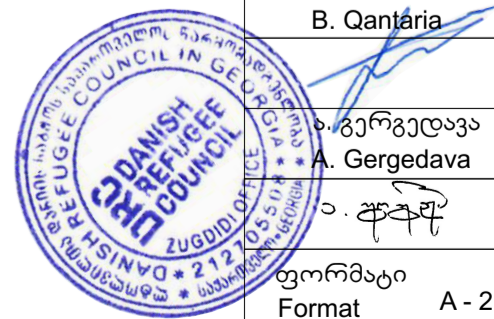
Explanatory letter

ბ. ქანთარია
B. Qantaria

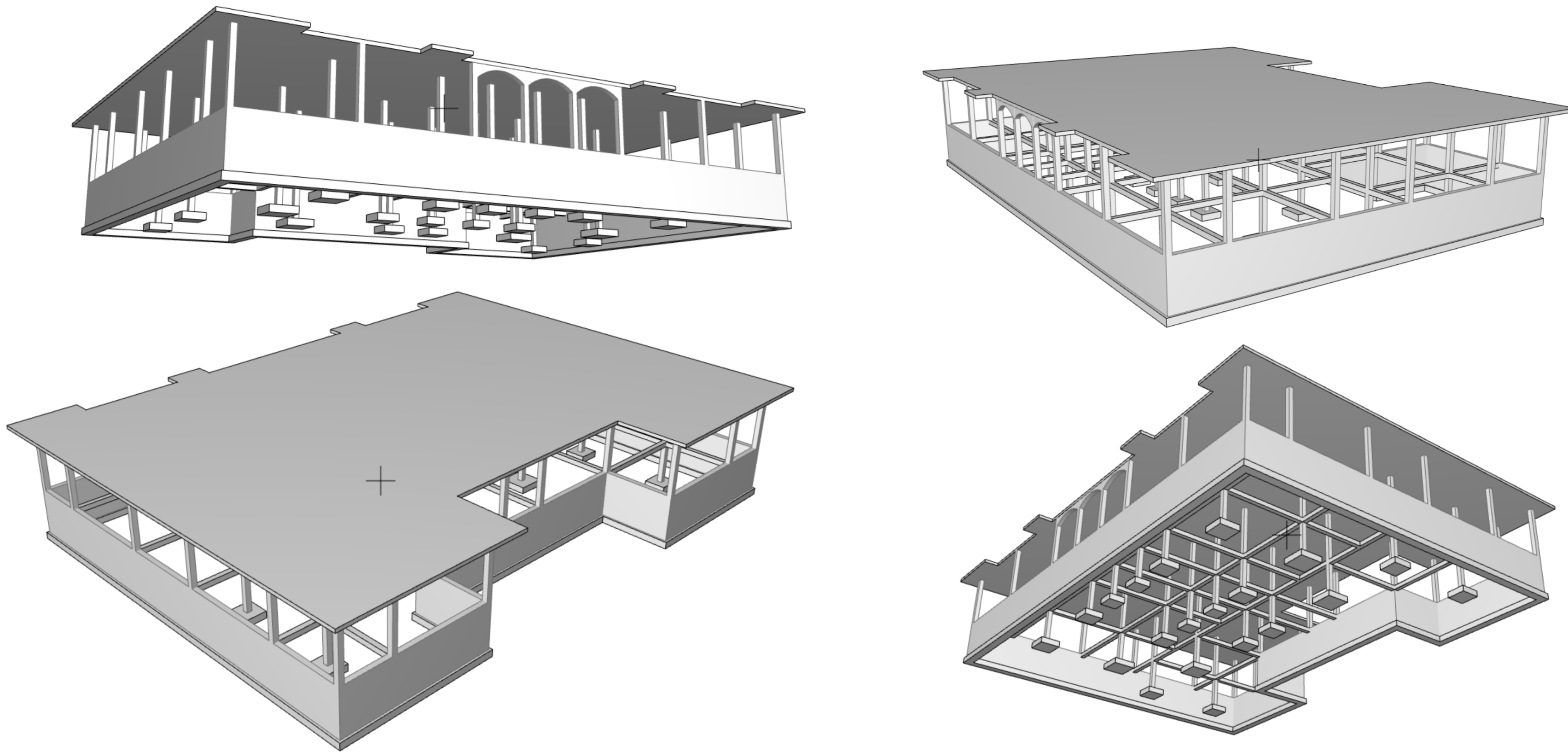
ა. გერგედავა
A. Gergedava

ფორმატი
Format A - 2

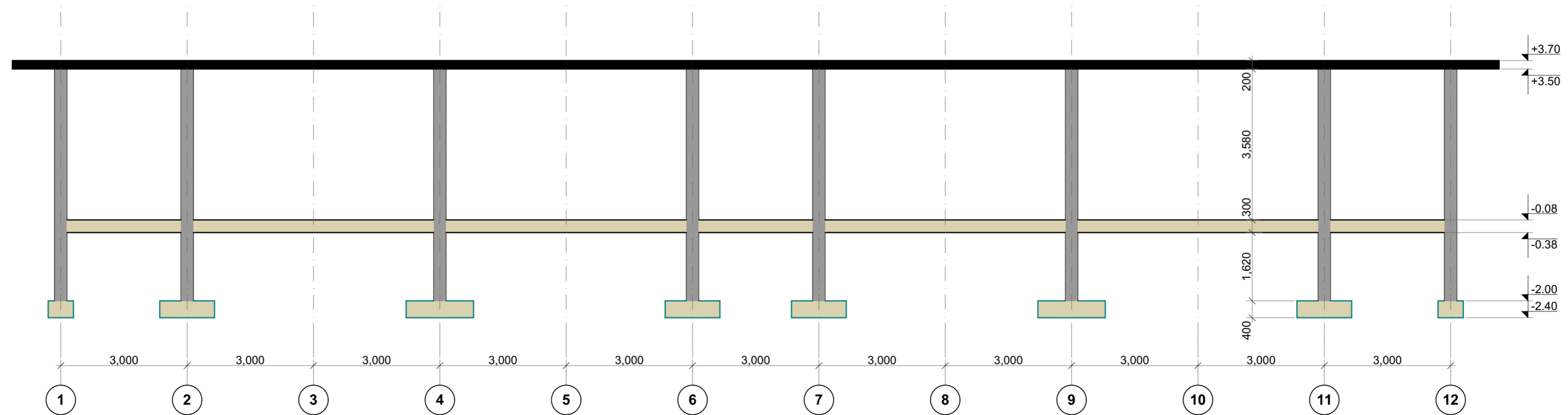
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2	27



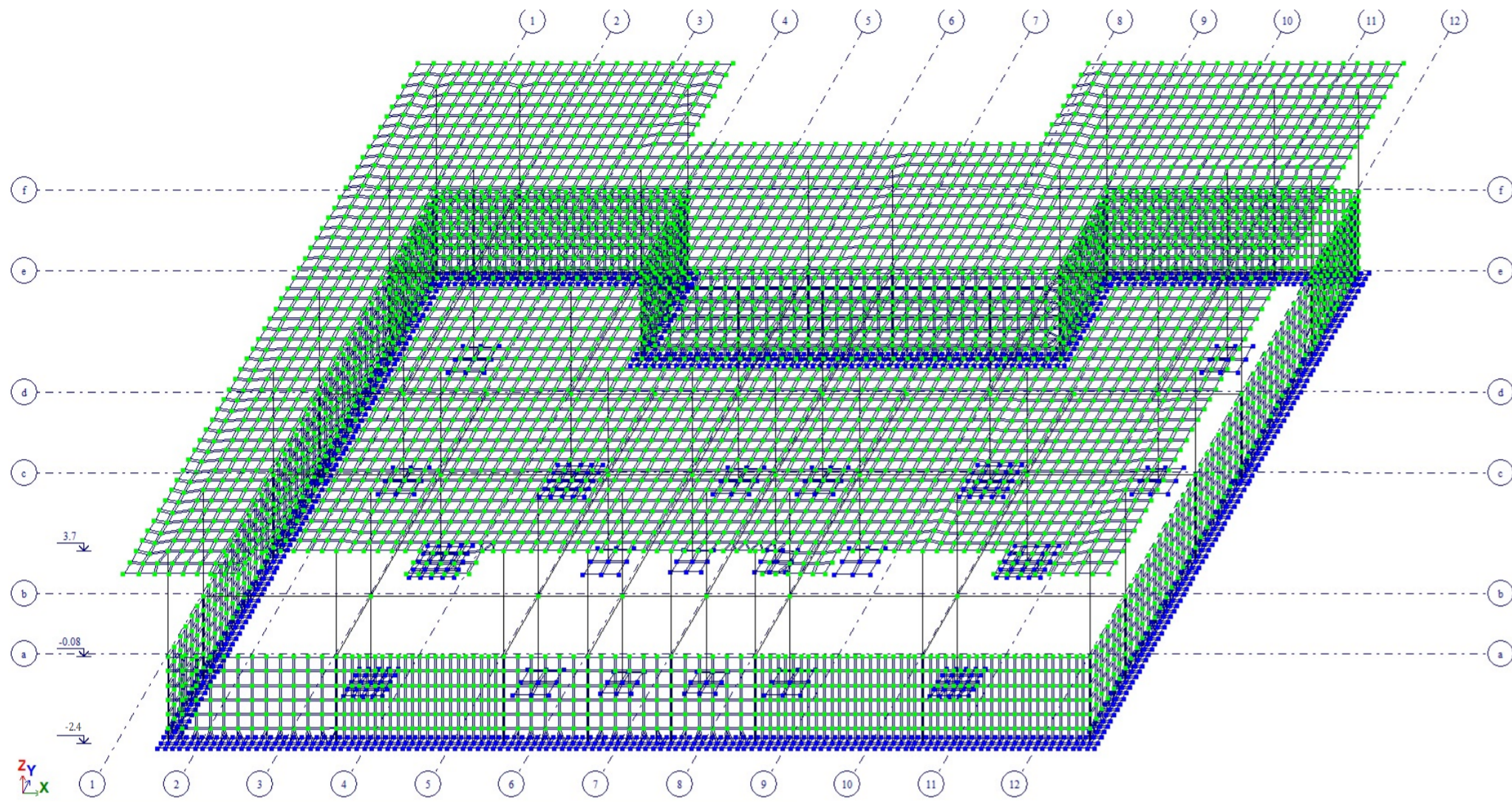
Concrete Mass Rendering



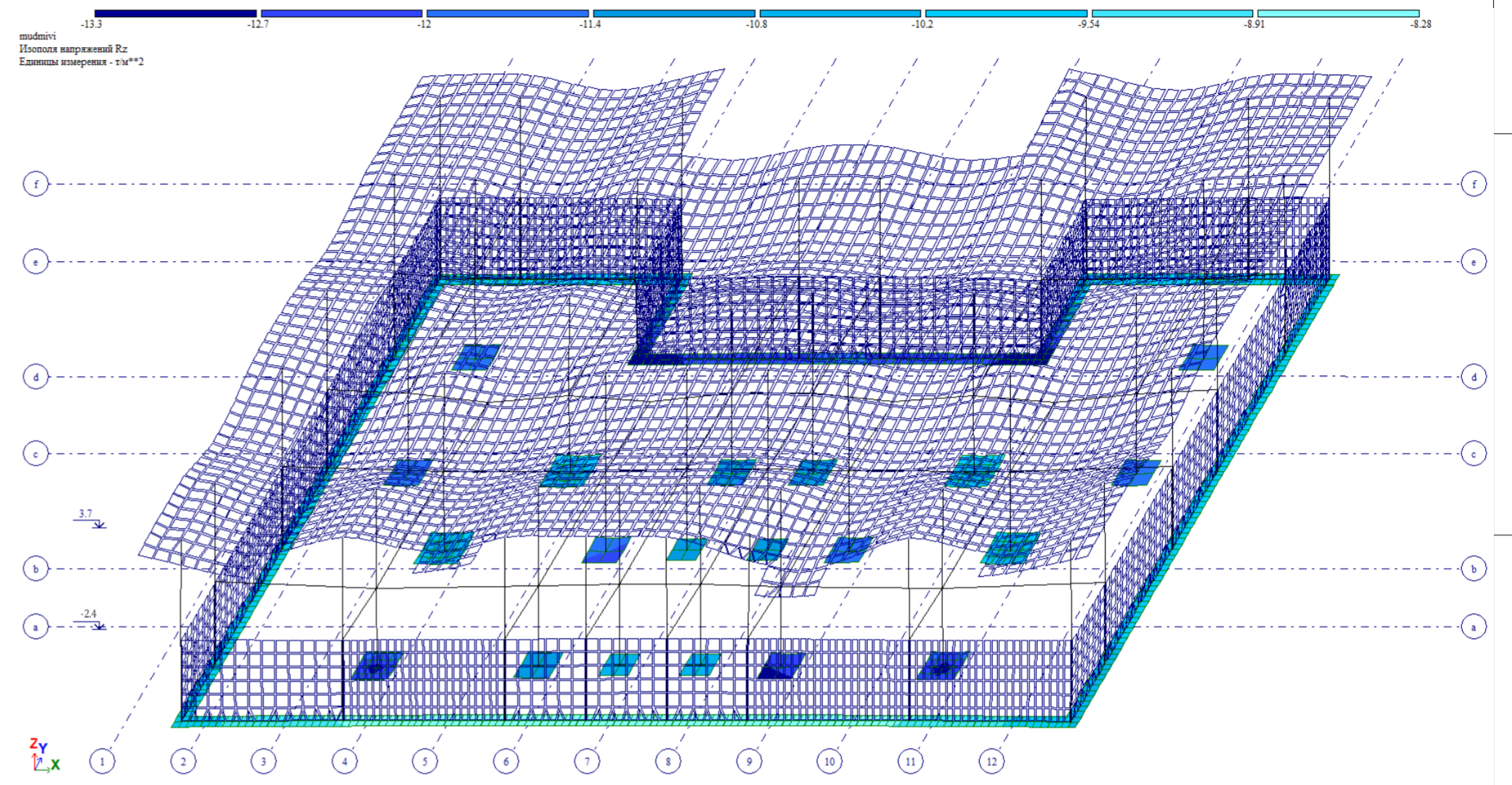
Characteristic section on the structure



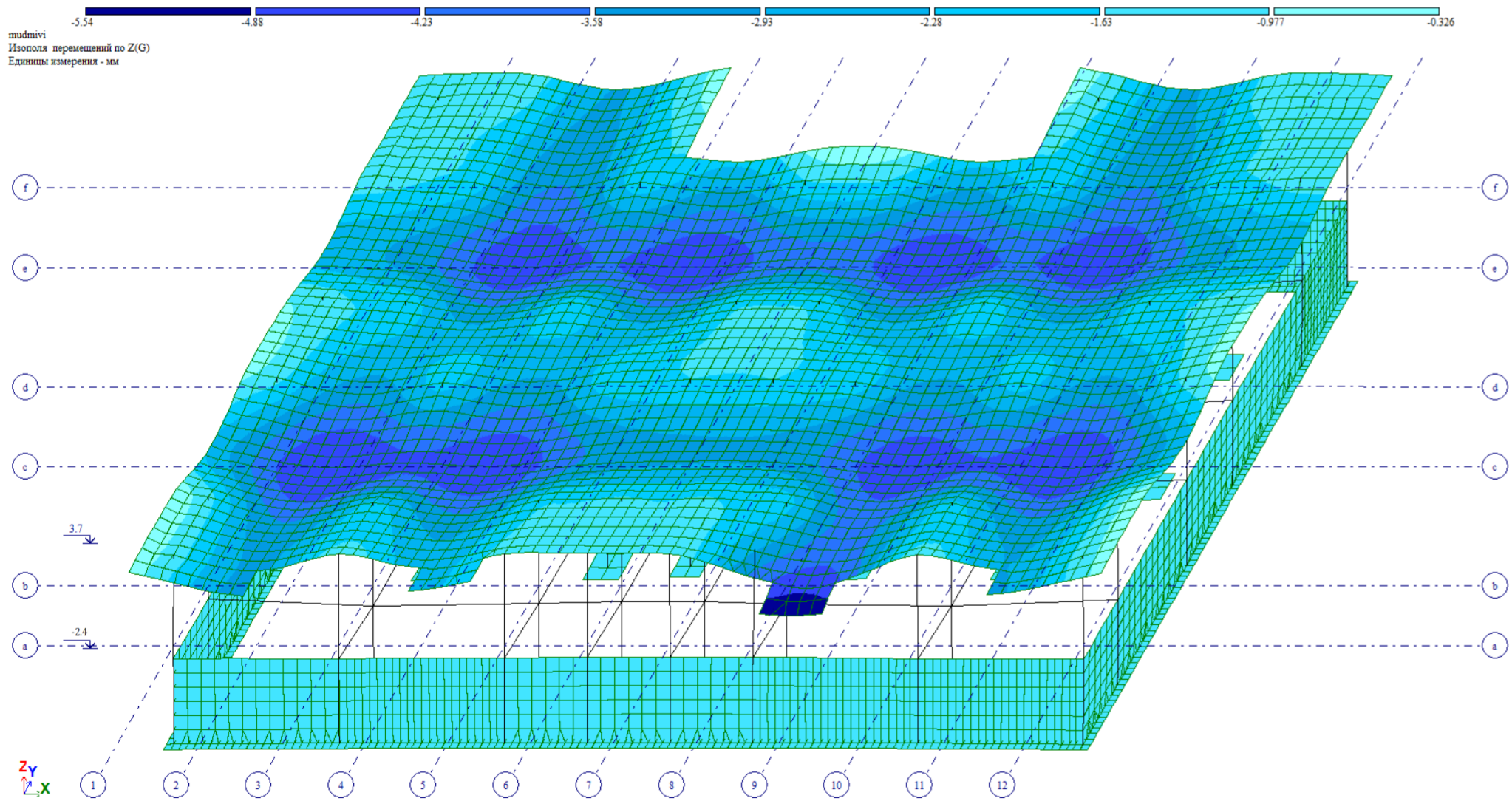
Model of calculation scheme



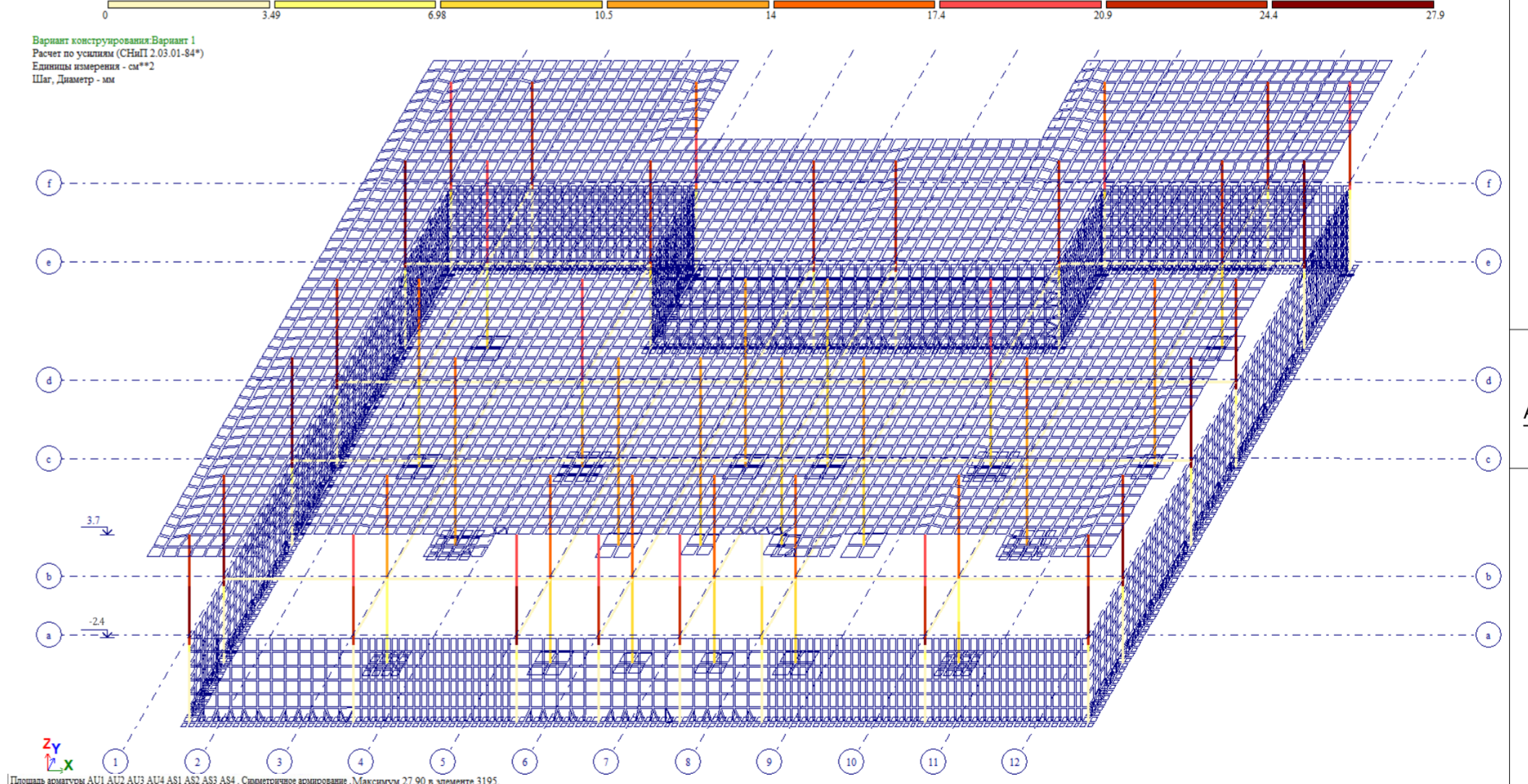
Isopole of base pressure



Isopole of displacements



Symmetrical reinforcement of columns



Project address:
Georgia,
Zugdidi

Stage:
Architectural project

Diagrams of
schematic
calculation of a
constructive scheme
in LIRA program

ბ. ჯანთარია
B. Qantaria

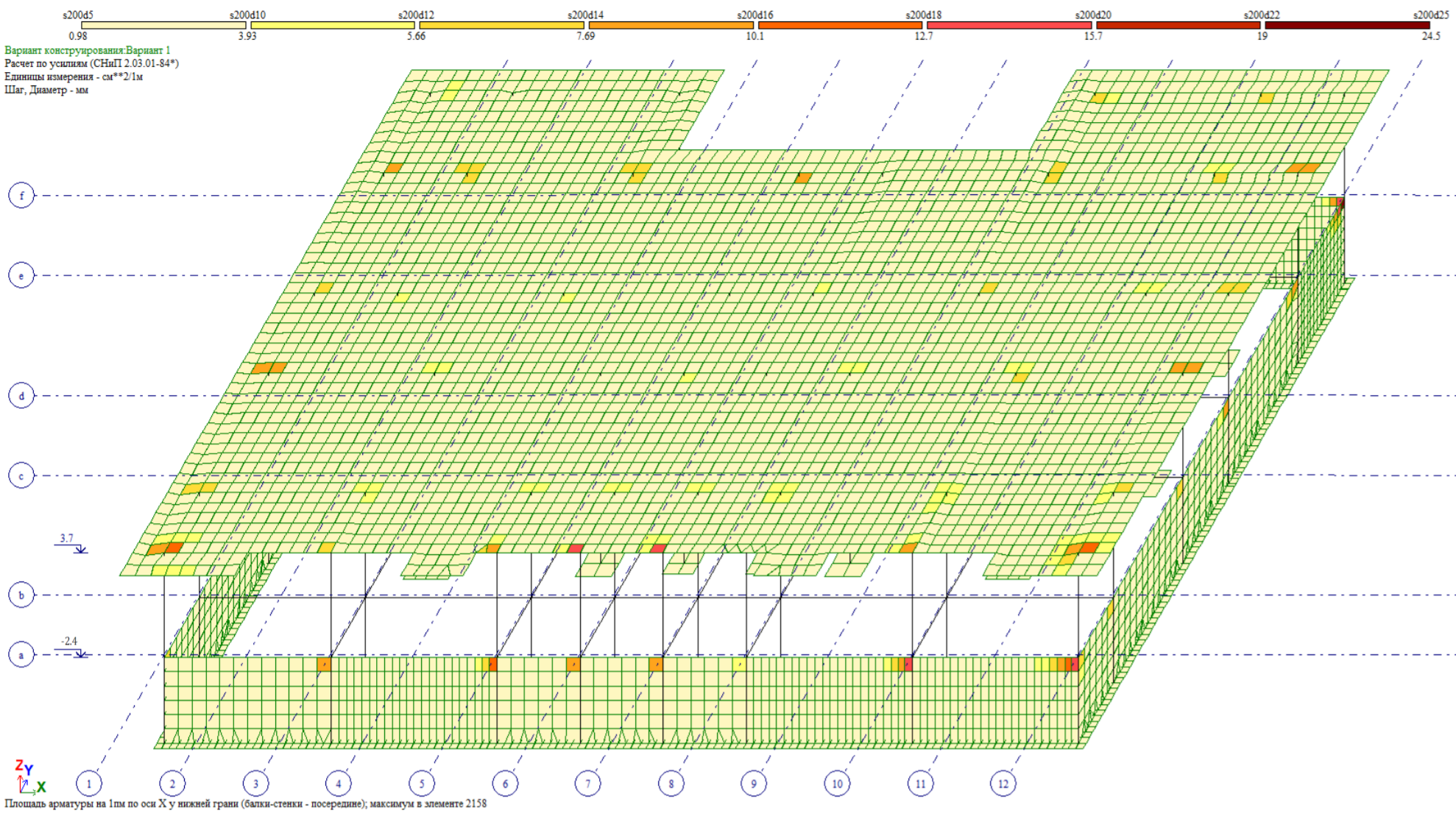
ა. გერგედავა
A. Gergedava



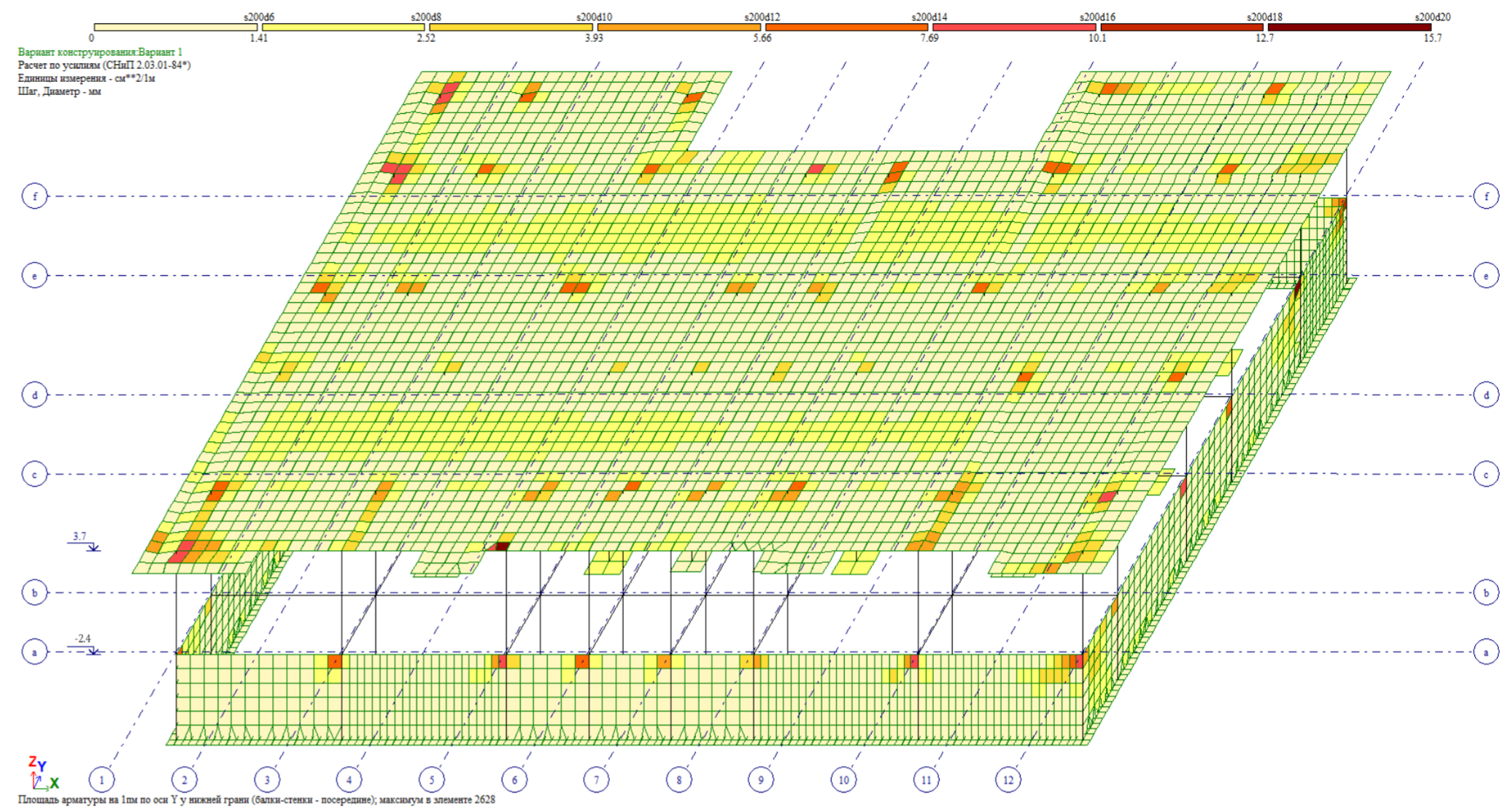
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Format A - 2

ფურცელი Page	ფურცლები Pages
4	27

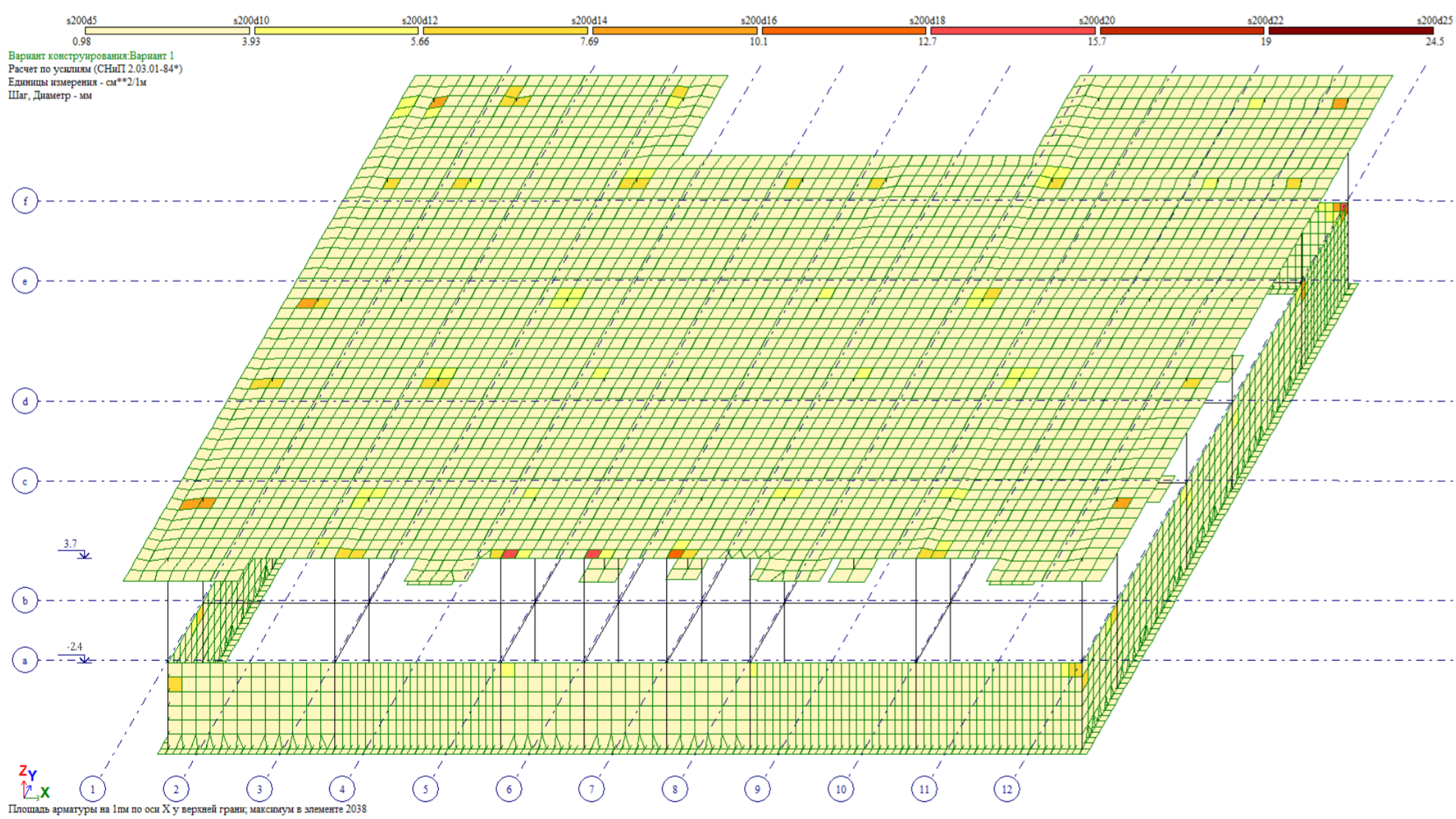
Reinforcement of lower zone of slab in X direction



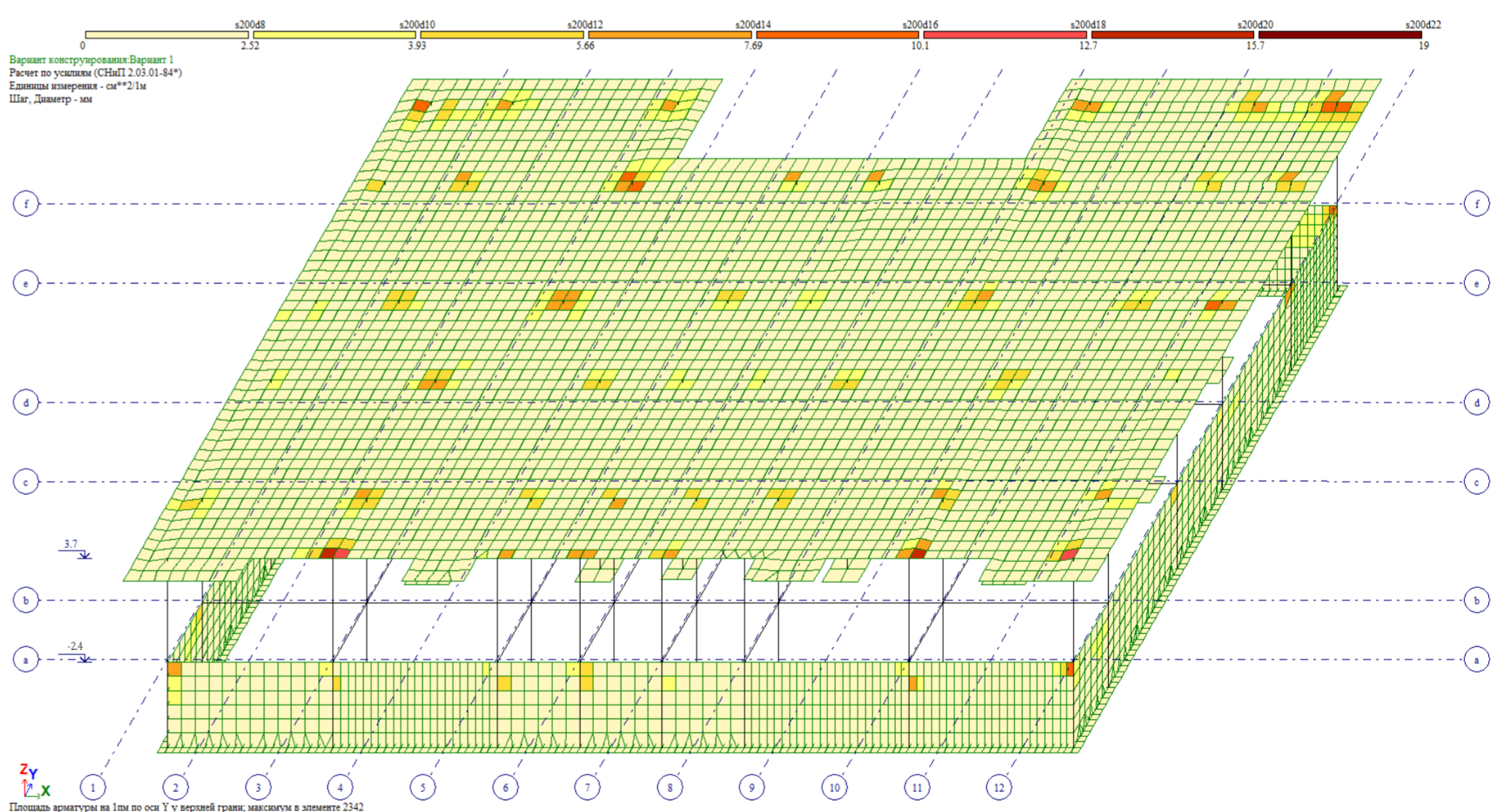
Reinforcement of lower zone of slab in Y direction



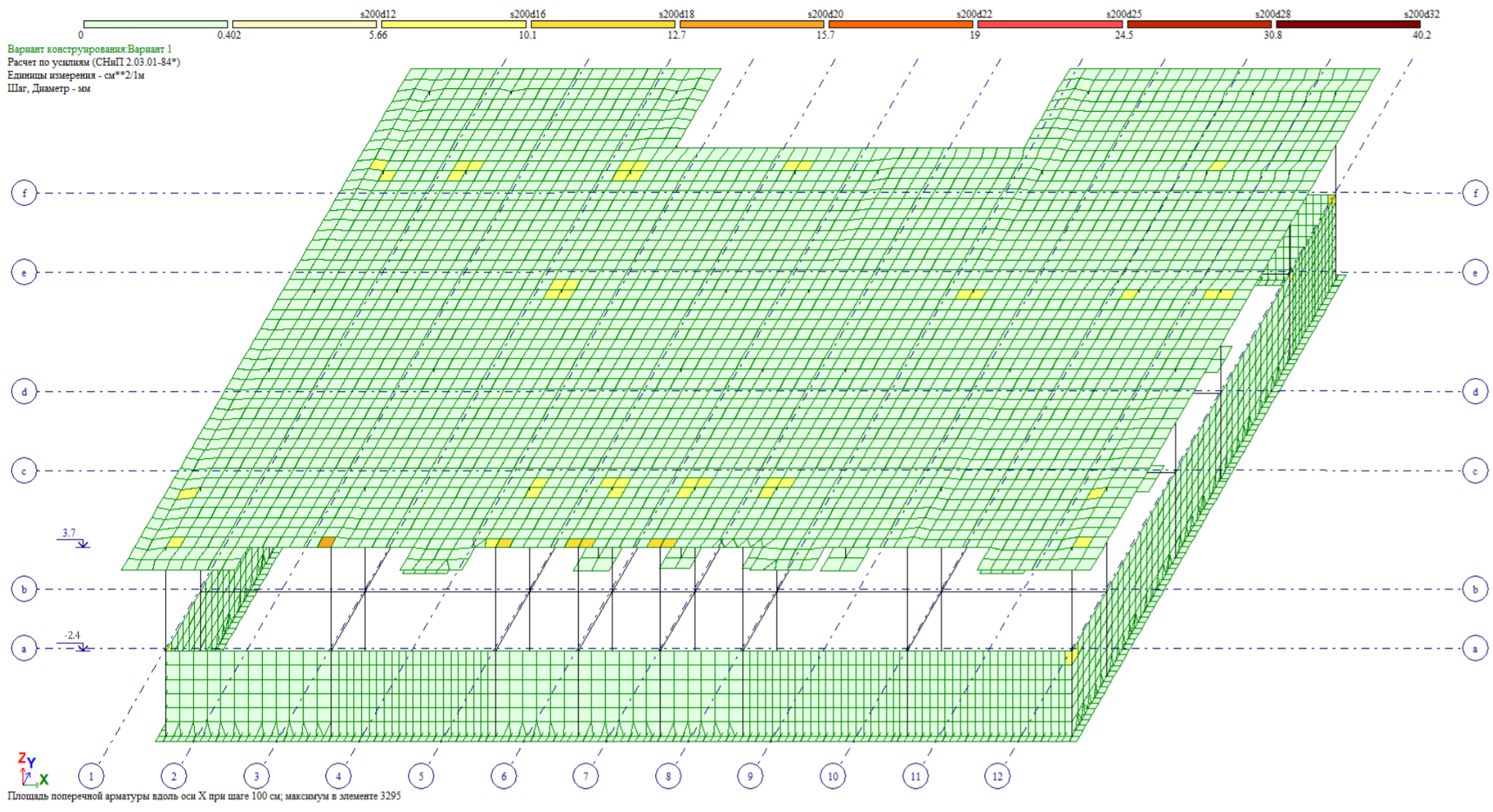
Reinforcement of upper zone of slab in X direction



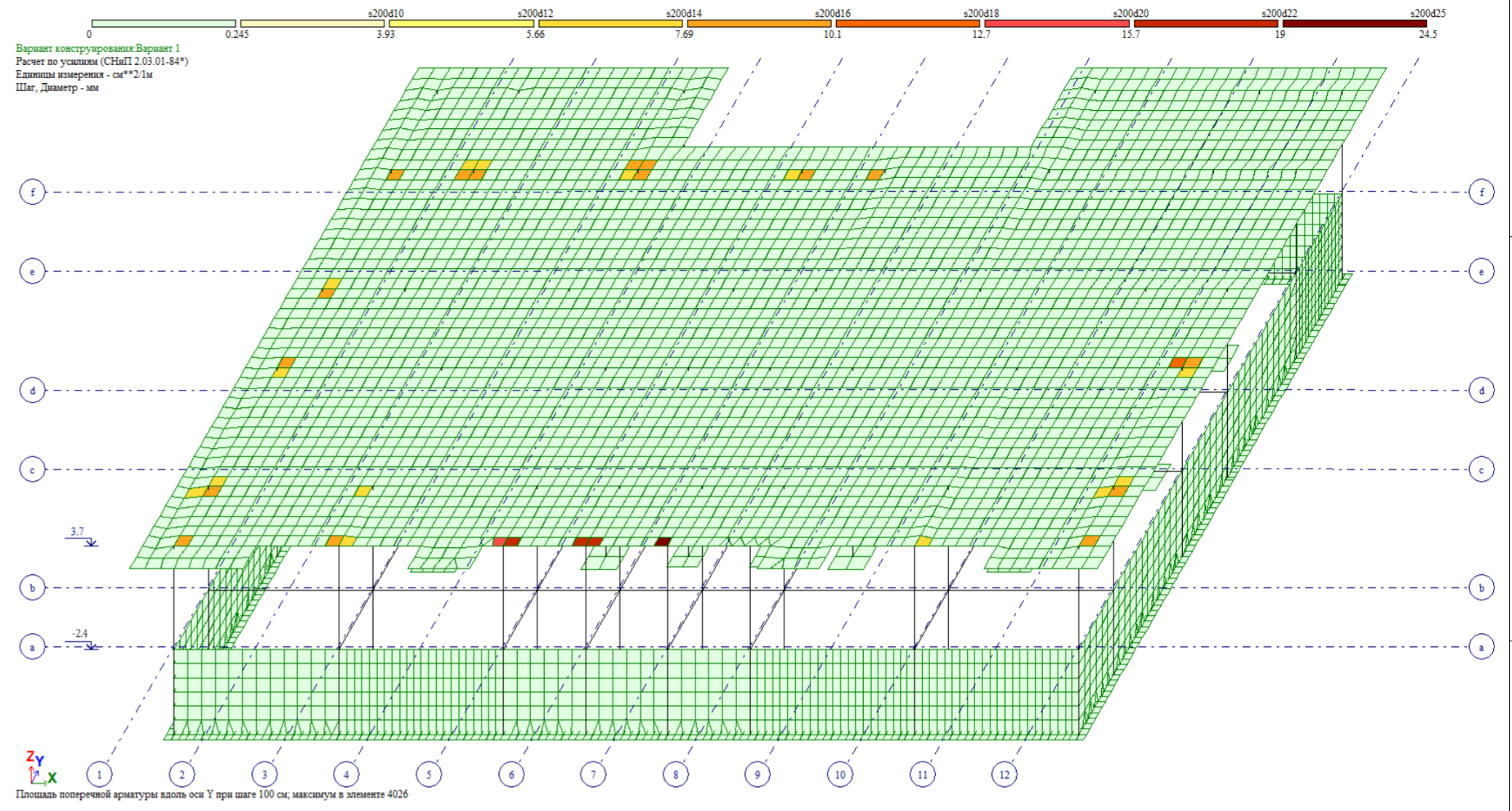
Reinforcement of upper zone of slab in Y direction



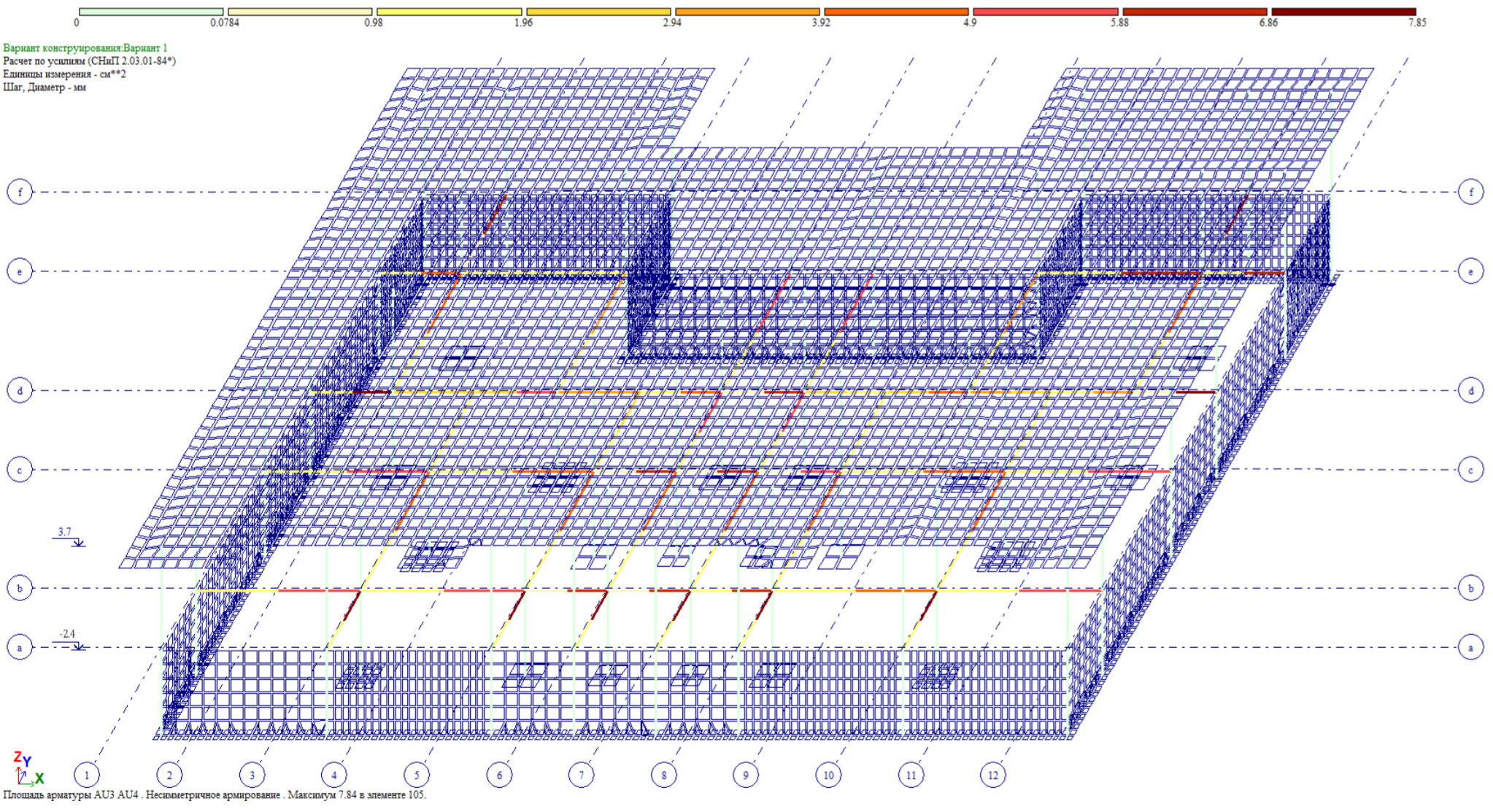
Transverse reinforcement of slab in X direction



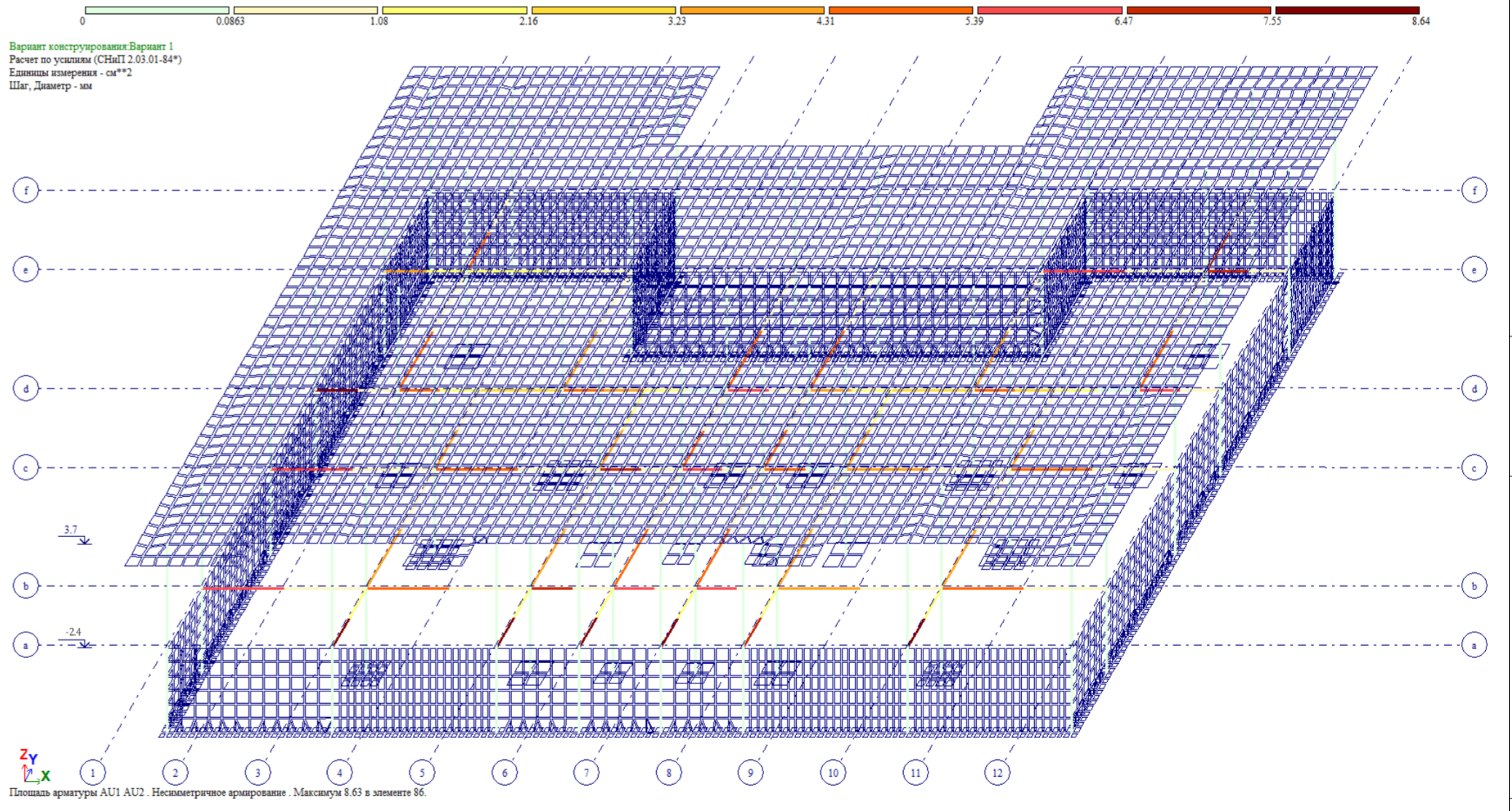
Transverse reinforcement of slab in Y direction



End-girder reinforcement ,upper layer



End-girder reinforcement, lower layer



Project address:
Georgia,
Zugdidi

Stage:
Architectural project

Diagrams of
schematic
calculation of a
constructive scheme
in LIRA program

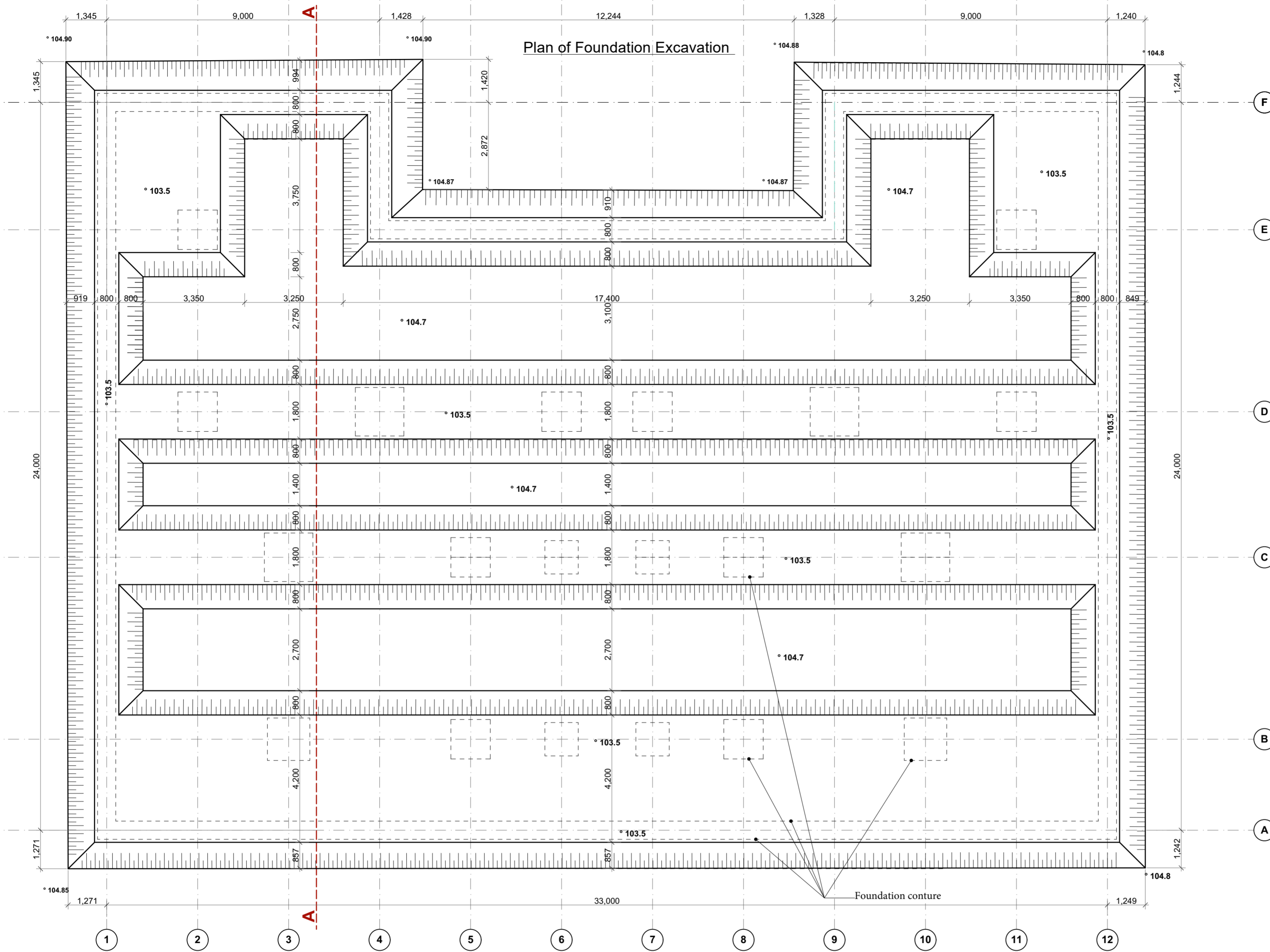
ბ. ჯანთარია
B. Qantaria

ა. გერგდავა
A. Gergedava

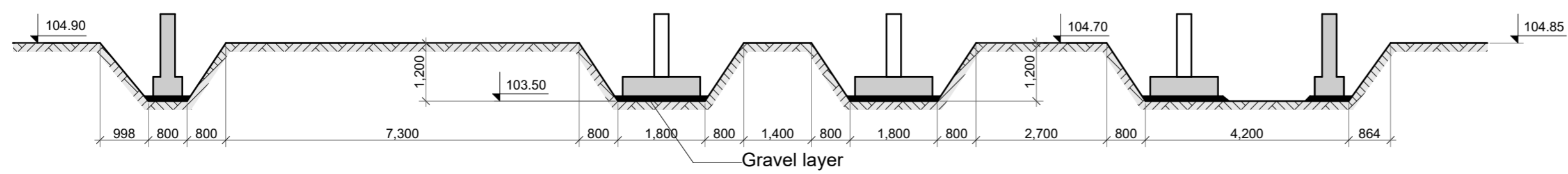


ფორმატი
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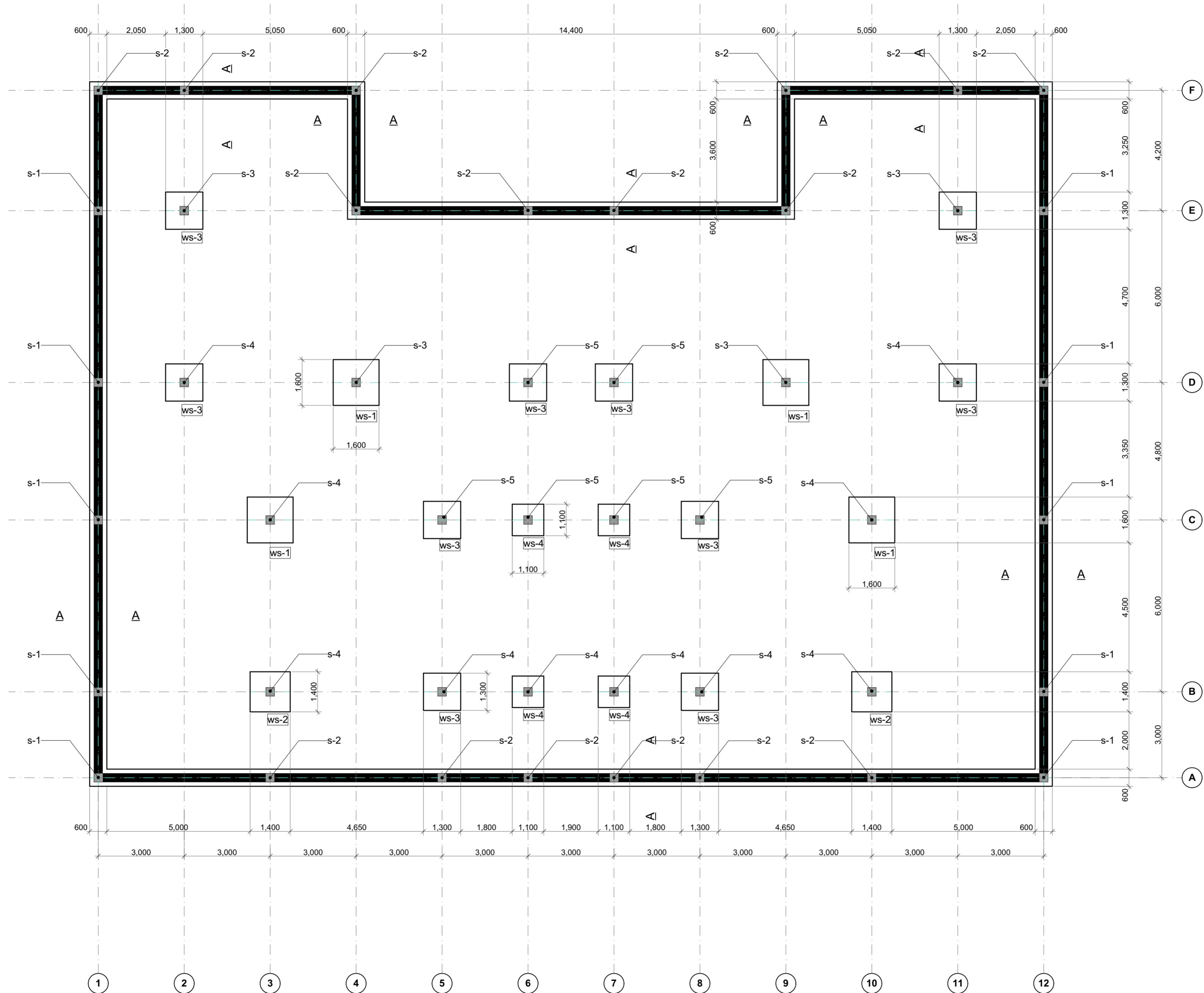
ფურცელი Page	ფურცლები Pages
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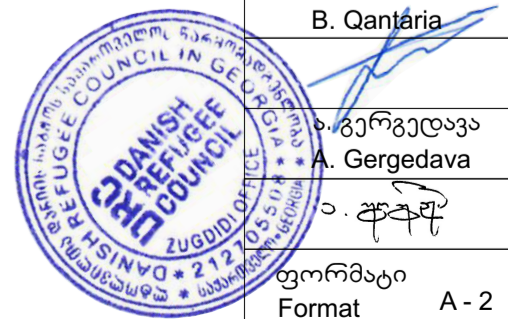
Profile of Foundation Excavation A-A



Foundation Plan with Column Marking

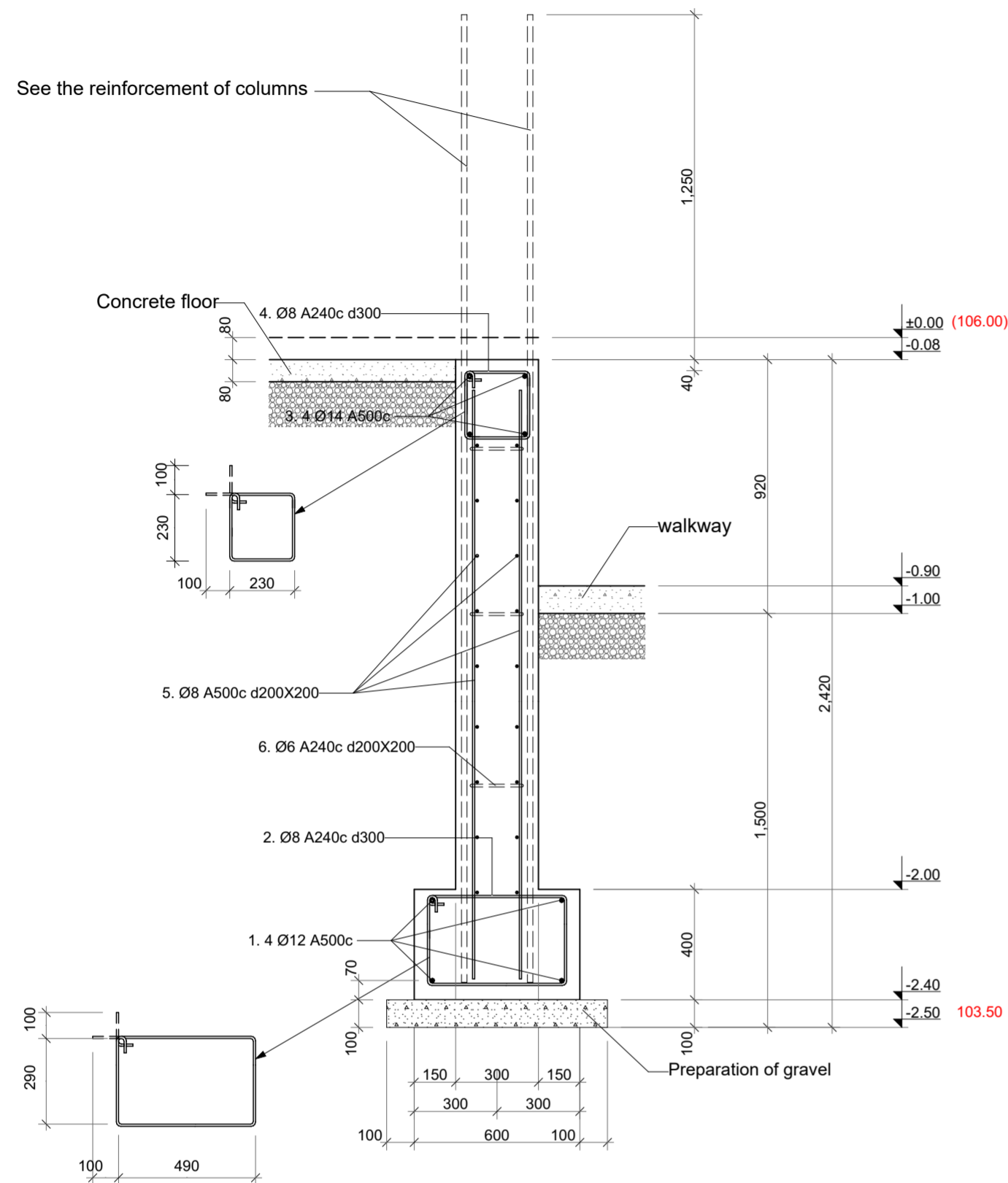


Remark: anchor - forks in foundations should be installed in accordance with column drawings



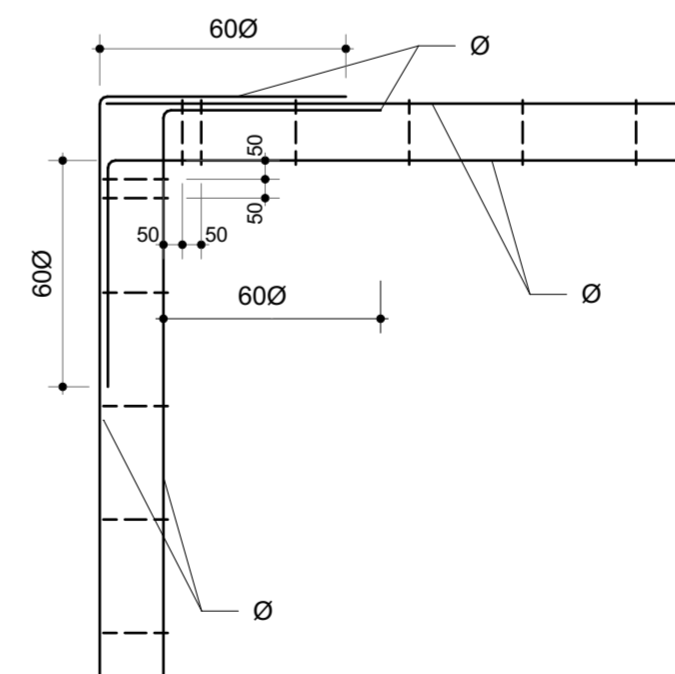
Section on Strip Foundation

A-A

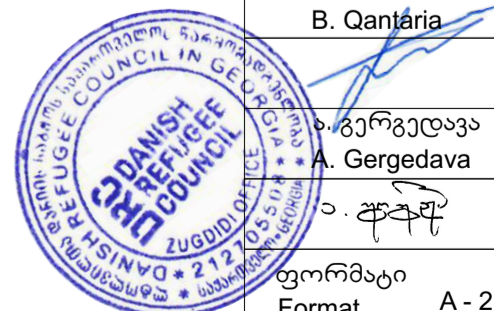


ელემენტი	№	არმატურის პროფილი	სიგრძე მმ	რაოდენობა	საერთო სიგრძე მ	ბეტონი მ3	არმატურის ამოკრეფა							
							კმპილი	საერთო სიგრძე მ	საერთო სიგრძე განაკვეთი მ	კრძის წონა	საერთო წონა ტონა	საერთო წონა ცვლის მსხვერპლი ტონა		
წერტილური საძირკველი														
ws-1 (4 ცალი)	1	14 A500c	2140	64	136.96		A240c	6 A240c	328.0	328.0	0.222	0.07	0.6	
	2	10 A500c	1540	64	98.56			8 A240c	1238.0	1299.9	0.394	0.51		
	3	10 A500c	500	80	40.00									
ws-2 (2 ცალი)	1	12 A500c	1940	32	62.08		A500c	6 A500c		0.0	0.222	0.00	4.2	
	2	10 A500c	1340	32	42.88			8 A500c	5500.0	5775.0	0.394	2.28		
	3	10 A500c	500	40	20.00			10 A500c	434.0	455.7	0.616	0.28		
ws-3 (10 ცალი)	1	12 A500c	1840	120	220.80		A500c	12 A500c	914.0	959.7	0.887	0.85	4.2	
	2	10 A500c	1240	120	148.80			14 A500c	633.0	664.7	1.208	0.80		
	3	10 A500c	500	120	60.00			16 A500c		0.0	1.578	0.00		
ws-4 (4 ცალი)	1	12 A500c	1700	48	81.60		A500c	18 A500c		0.0	1.997	0.00	4.2	
	2	12 A500c	1100	48	52.80			20 A500c		0.0	2.465	0.00		
	3	10 A500c	500	48	24.00			22 A500c		0.0	2.983	0.00		
ღებური საძირკველი														
	1	12 A500c	124000	4	496.00		სულ						4.80	
	2	8 A240c	1760	430	756.80									
	3	14 A500c	124000	4	496.00									
	4	8 A240c	1120	430	481.60									
	5	8 A500c			5500.00									
	6	6 A240c	400	820	328.00									
	ბეტონი B25 m3						116.5							

Plan of bonding of the reinforcing frames at the corners on the outer perimeter



Remark: anchor - forks in foundations should be installed in accordance with column drawings



Project address:
Georgia,
Zugdidi

Stage:
Architectural project

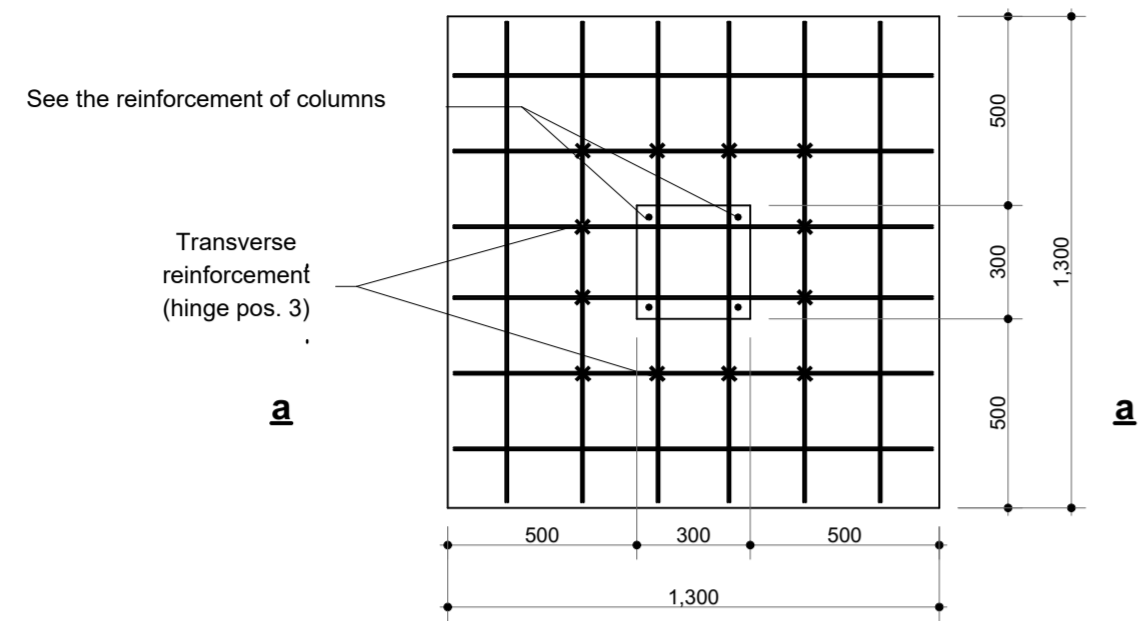
Section on Strip
Foundation
A-A

ბ. ჯანთარია
B. Qantaria

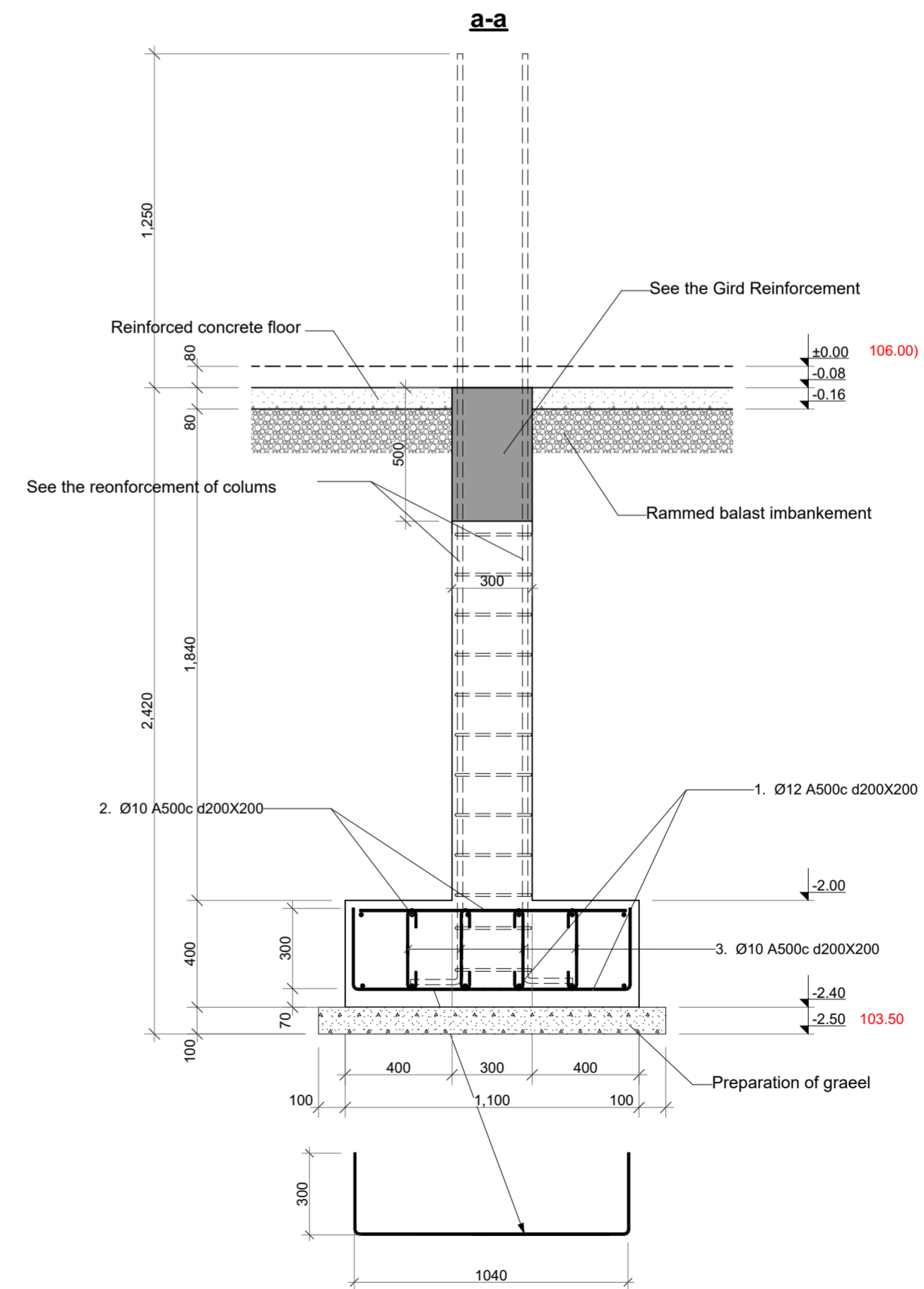
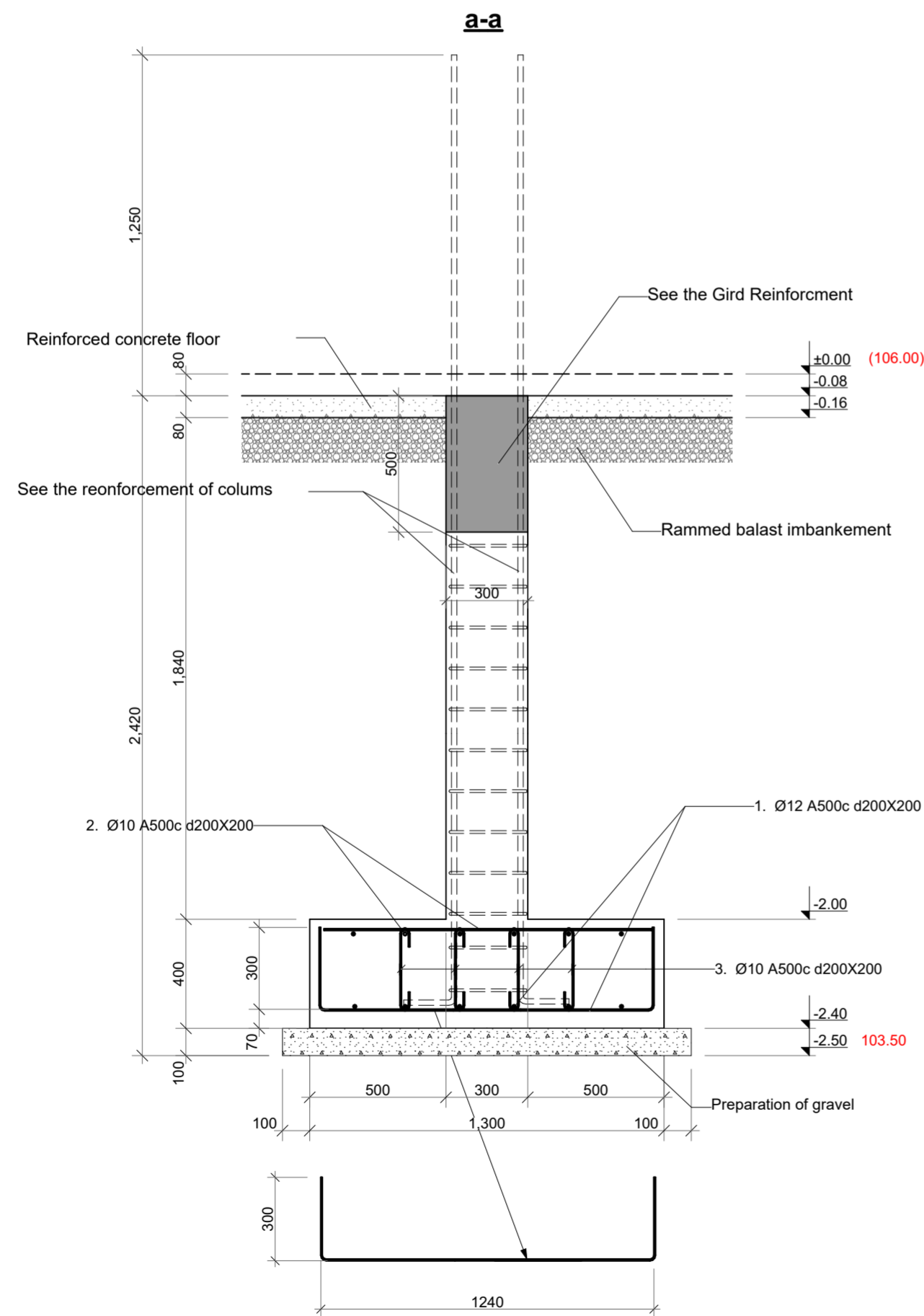
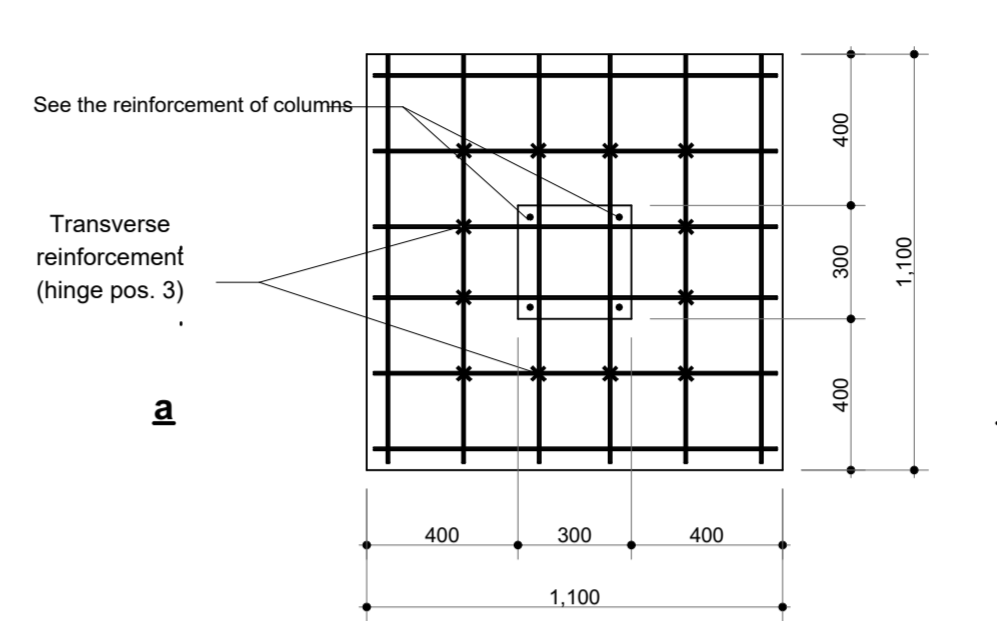
ა. გერგედავა
A. Gergedava

ფორმატი
Format A - 2

Pad Foundation **ws-3**



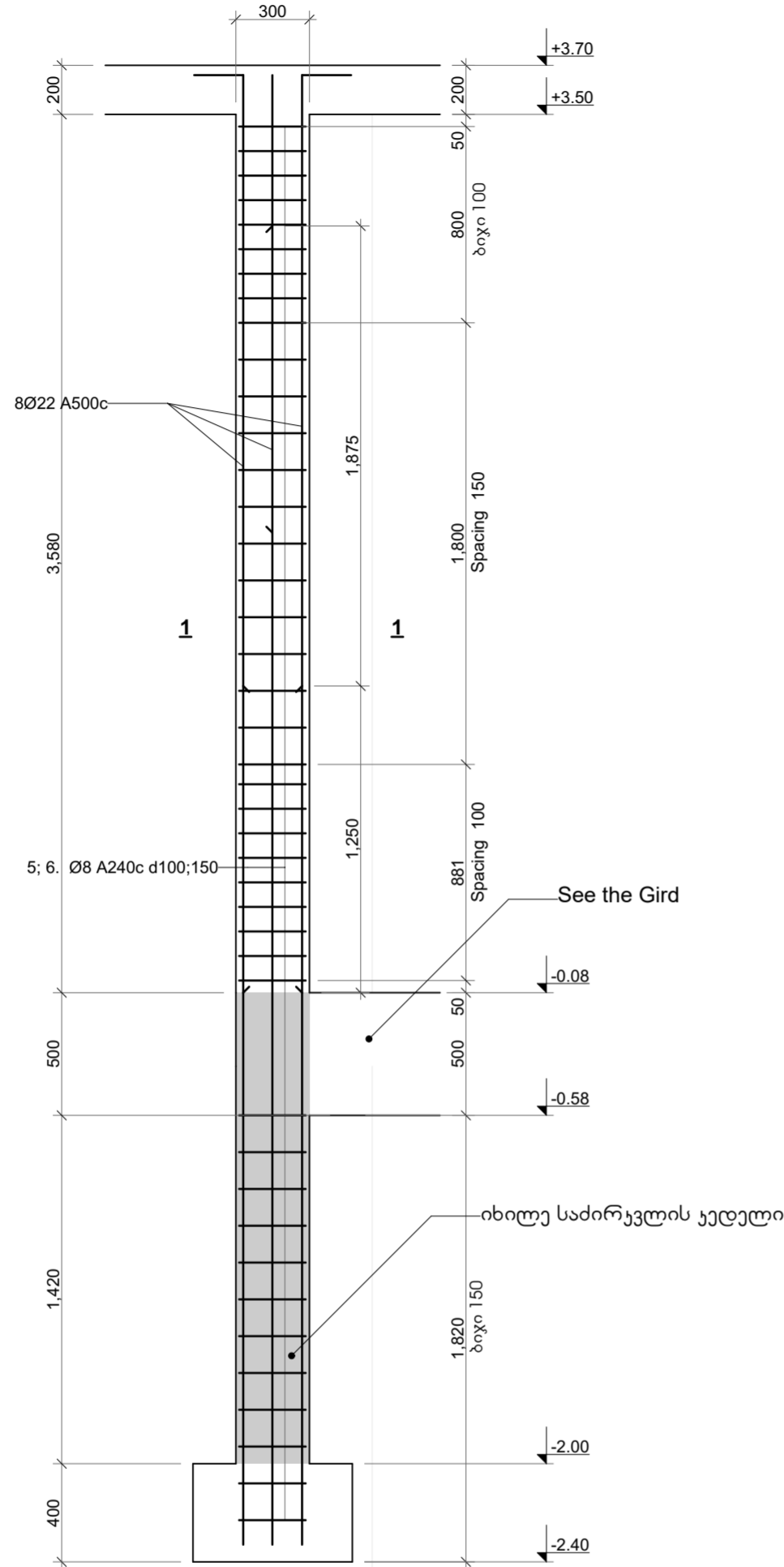
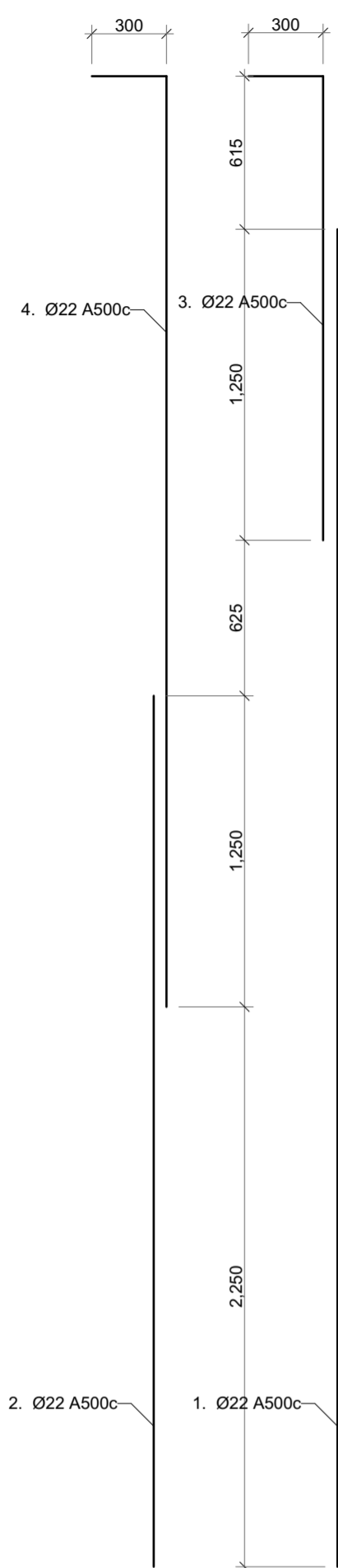
Pad Foundation **ws-4**



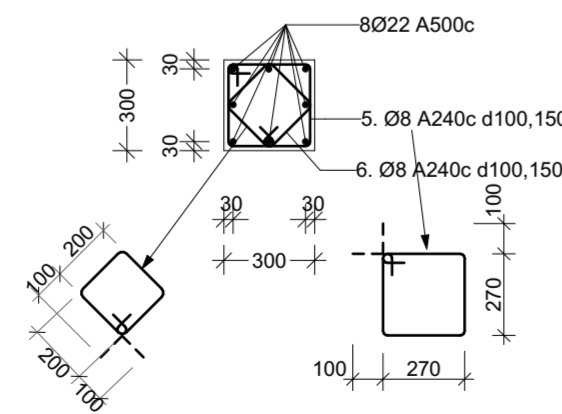
Remark: anchor - forks in foundations should be installed in accordance with column drawings



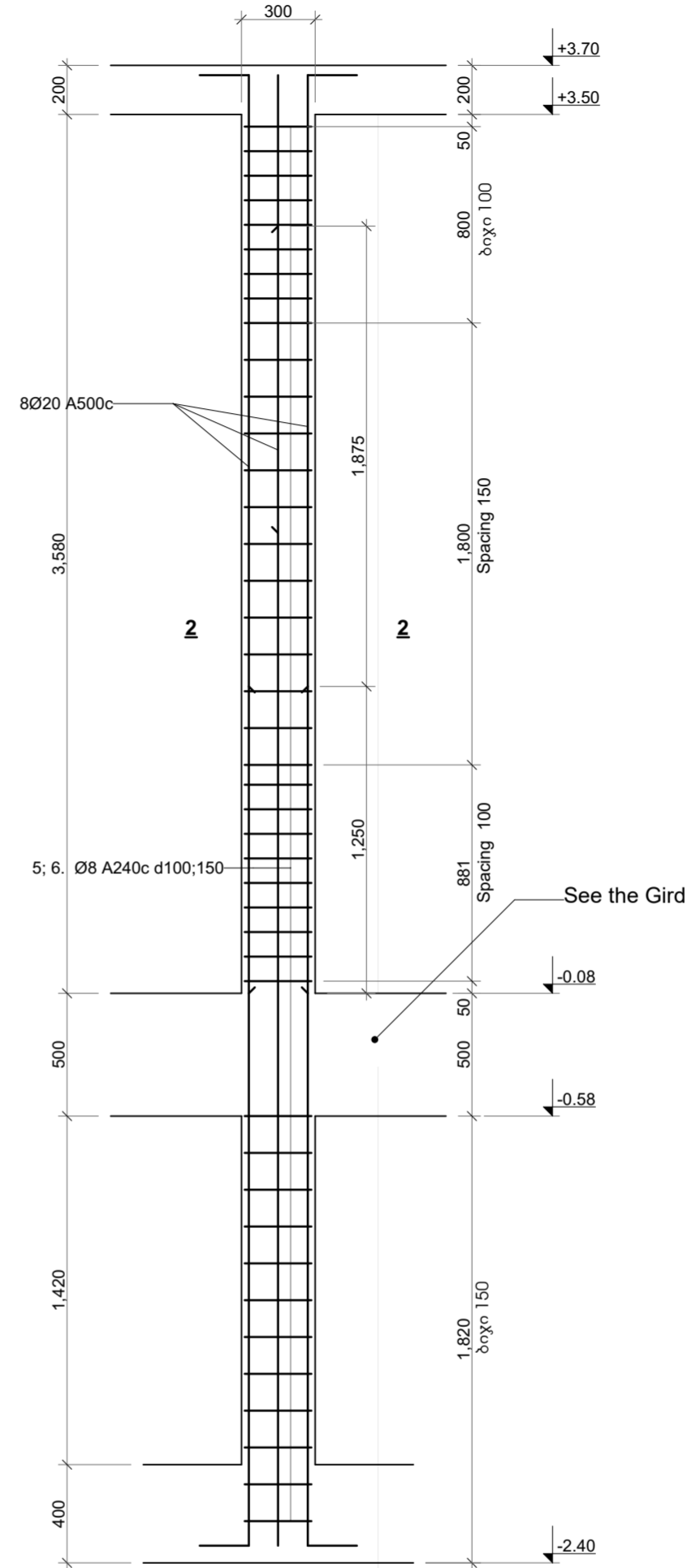
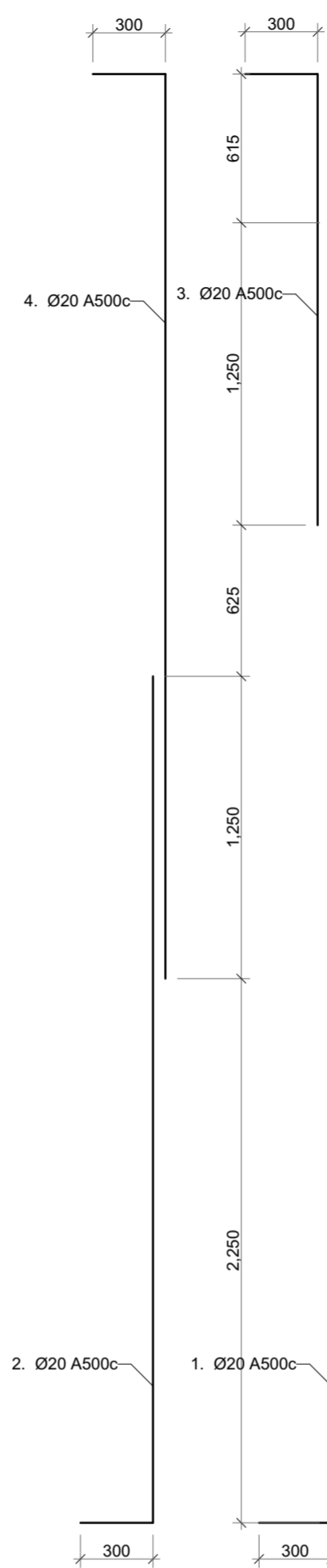
Column S-1



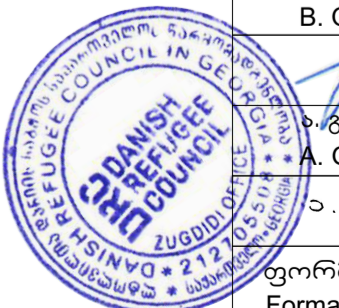
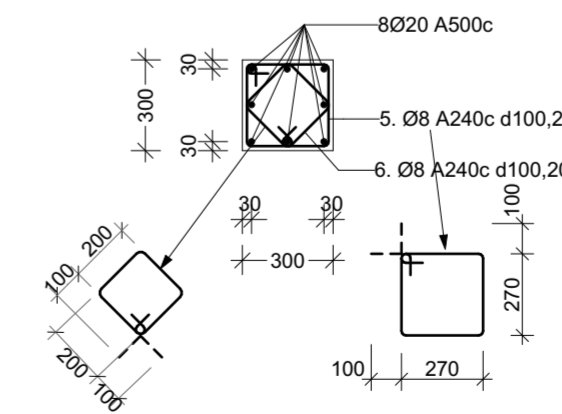
ჭრის რეკონსტრუქცია 1-1



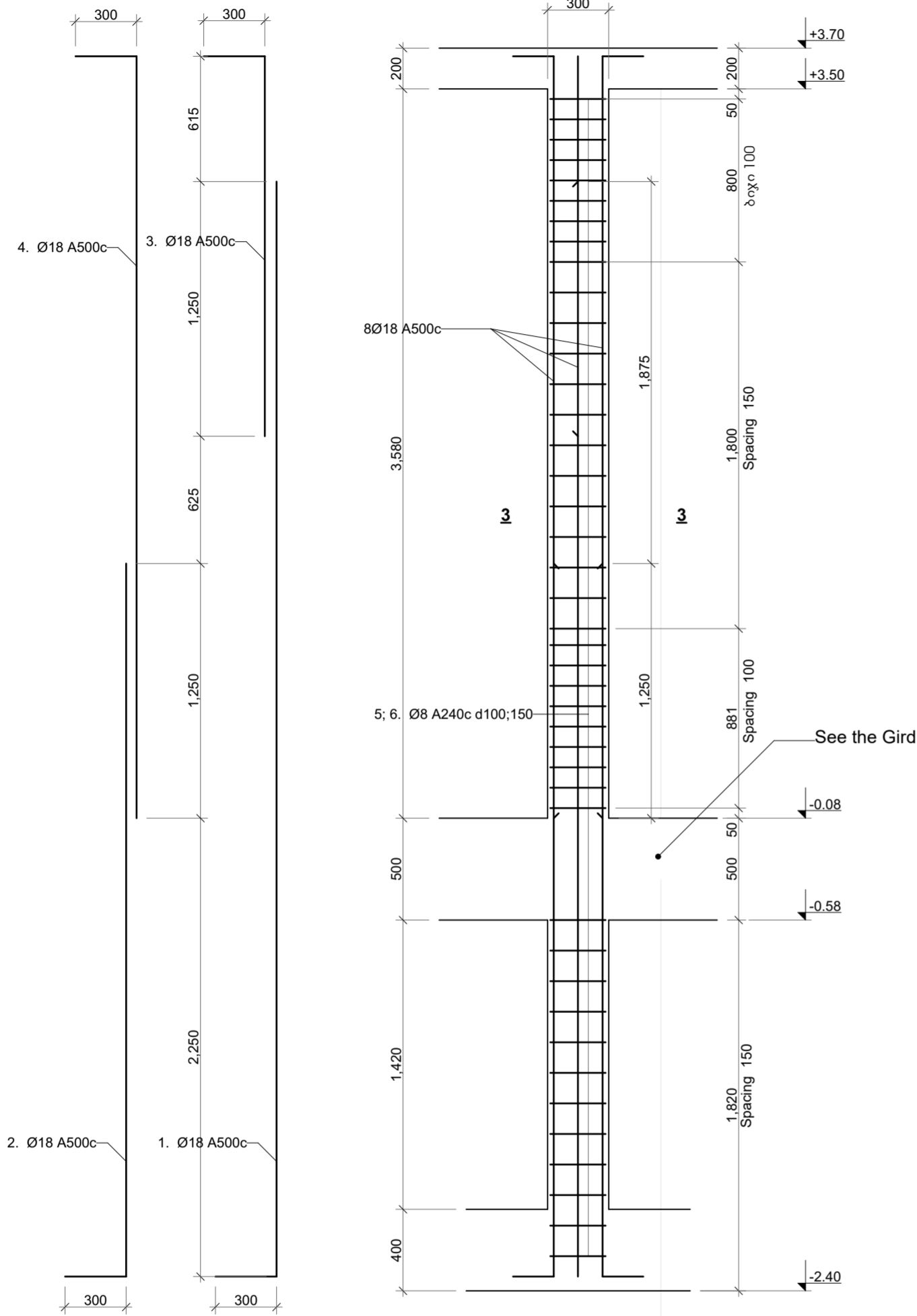
Column S-2



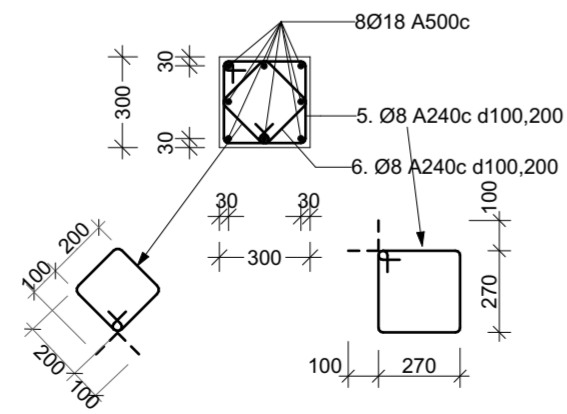
Section 2-2



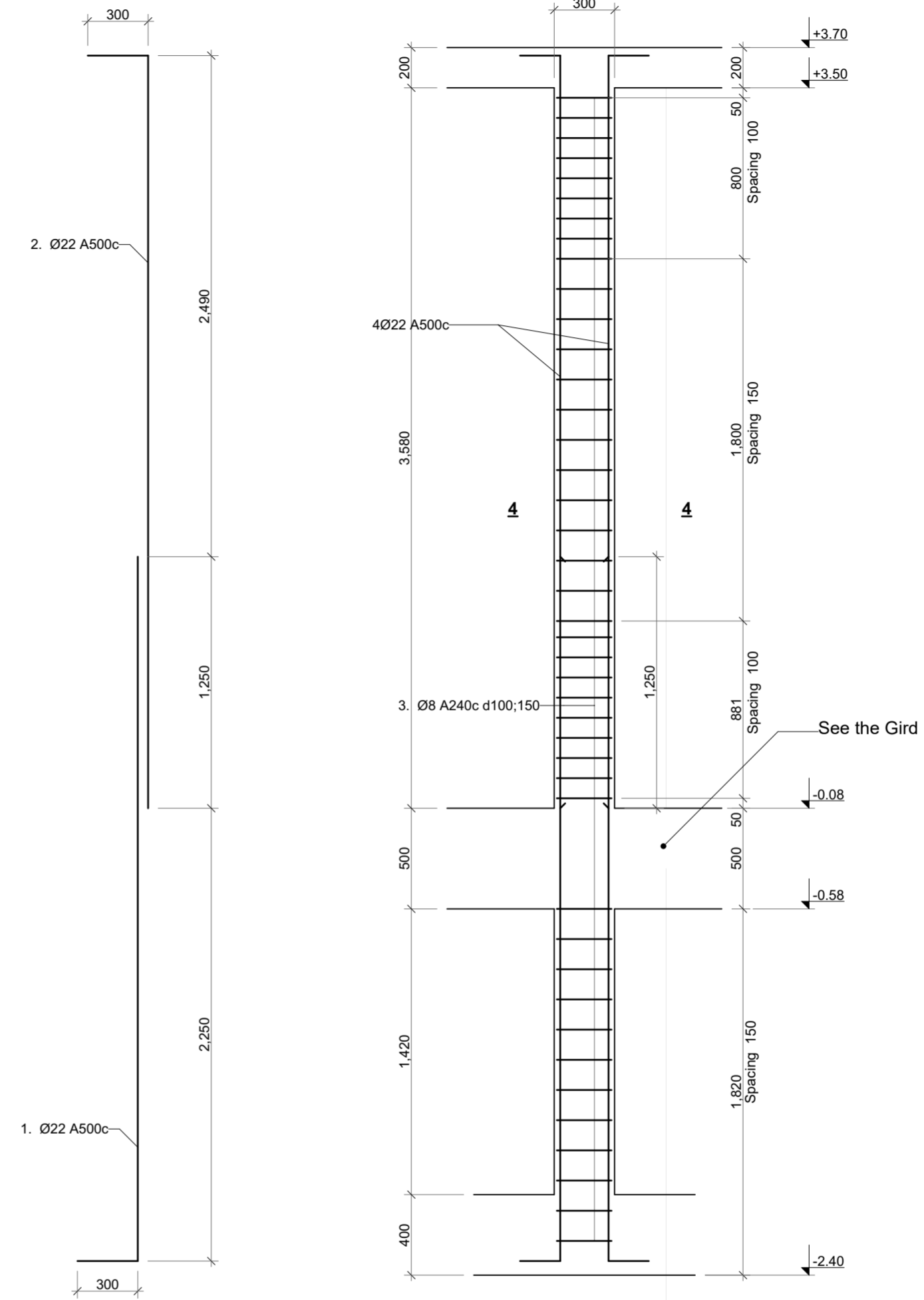
Column S-3



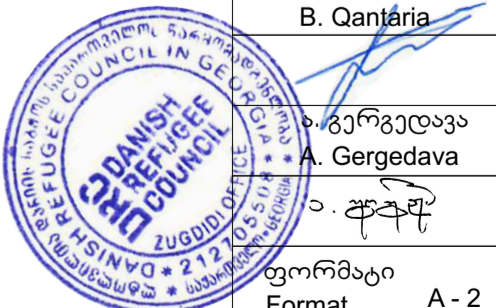
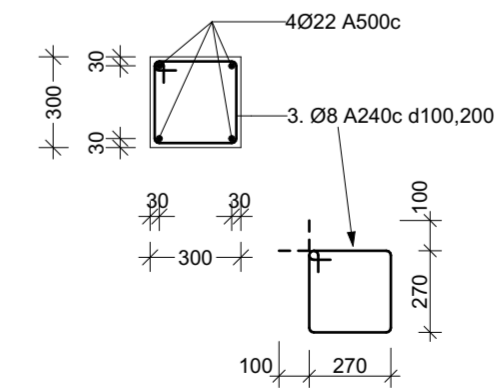
Section 3-3

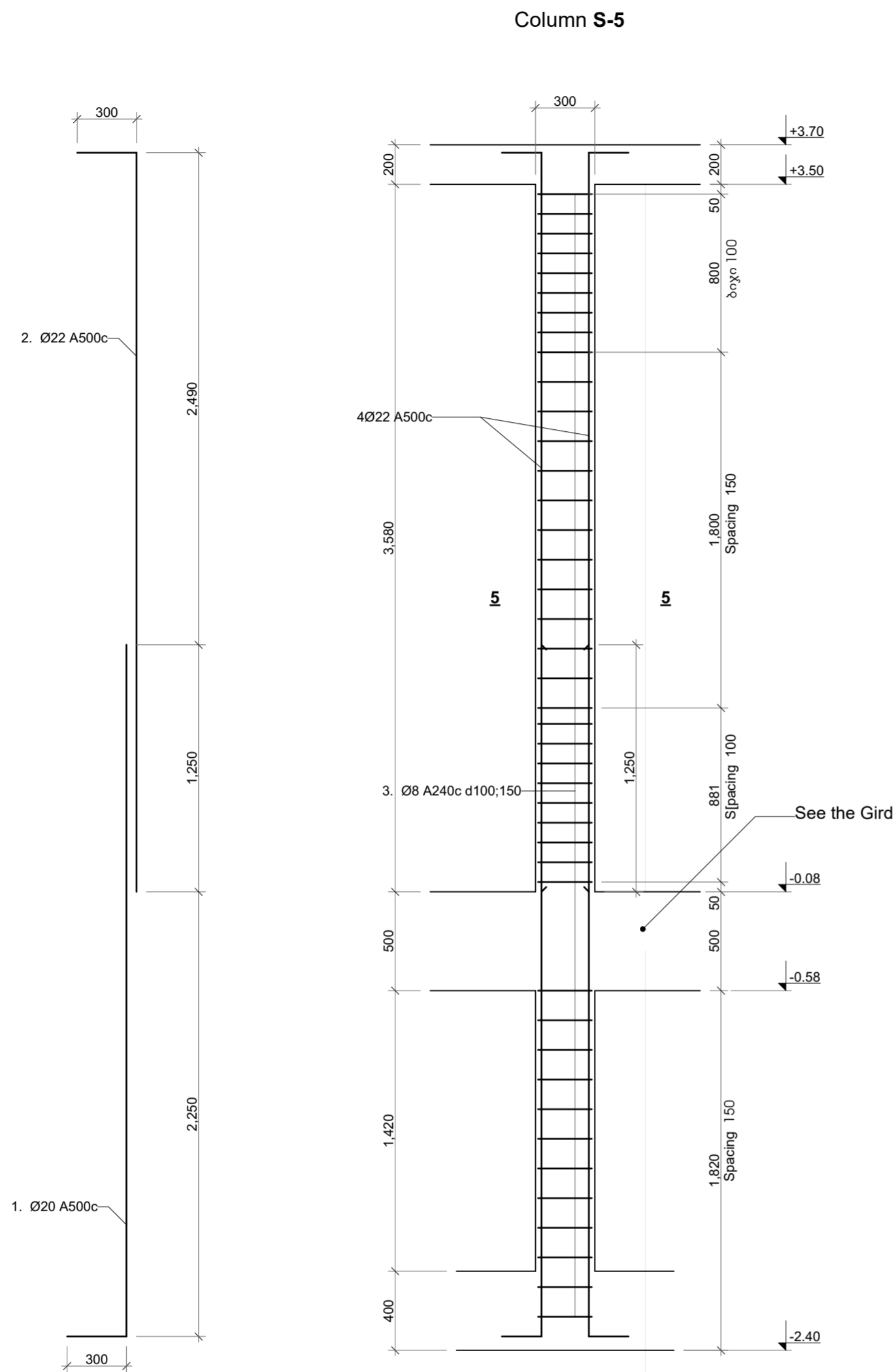


Column S-4

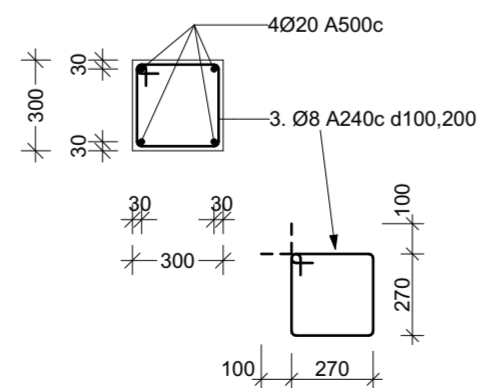


Section 4-4





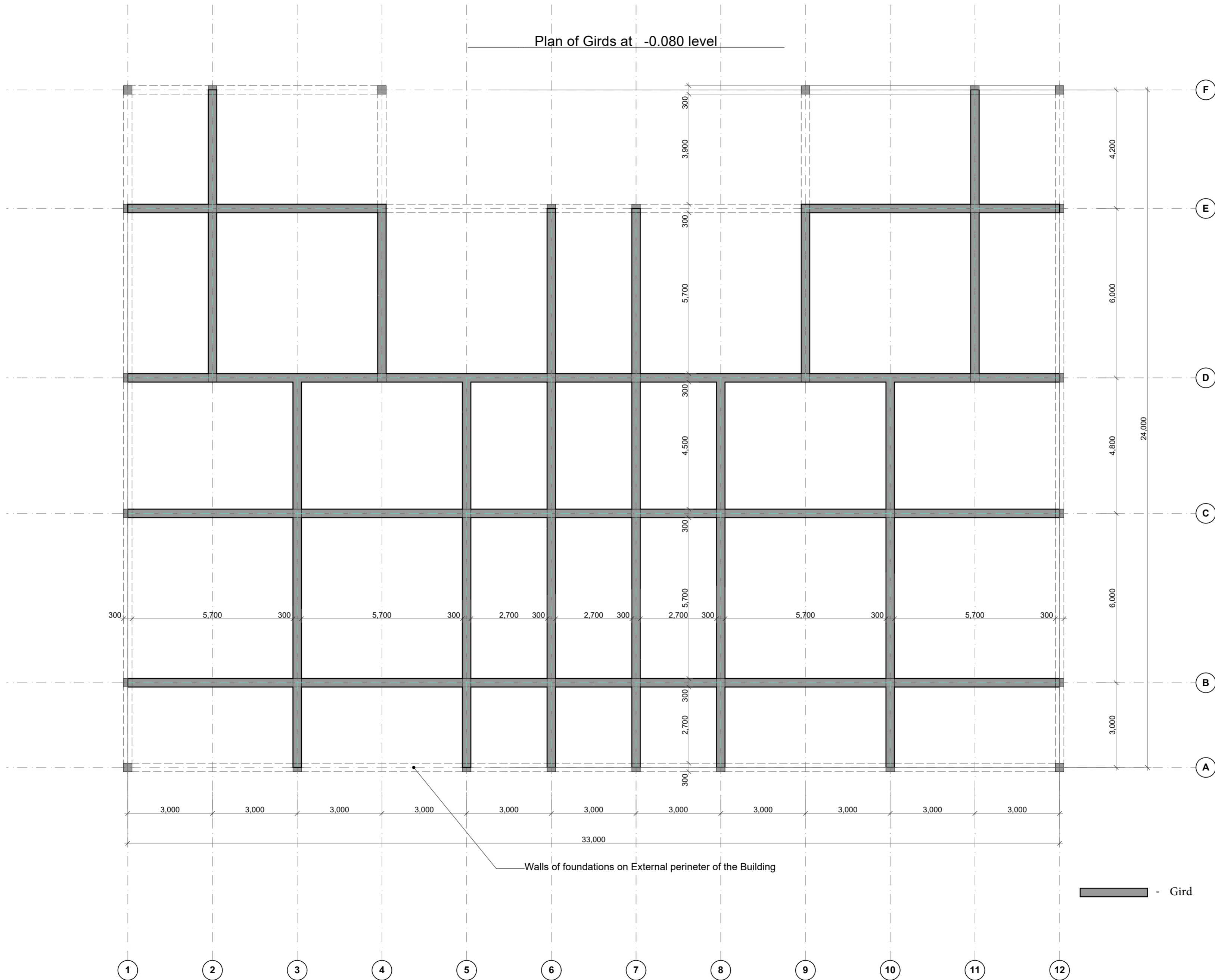
Section 5-5



ელემენტი Element	№	არმატურის პროფილი	სიგრძე მმ	რაოდენობა	საერთო სიგრძე მ	ბეტონი მ3	არმატურის ასოკრეფა						
							მწიფი	საერთო სიგრძე მ	საერთო სიგრძე განაკვეთი მ	გამამხ. წონა	საერთო წონა ტონა	საერთო წონა (კვლახ მსხვერპი) ტონა	
რკინაბეტონის სვეტები Reinforced Concrete Columns													
S-1 (10 ცალი)	1	22 A500c	5375	40	215		A240c	6 A240c		0.0	0.222	0.00	1.5
	2	22 A500c	3500	40	140			8 A240c	3733.0	3919.7	0.394	1.55	
	3	22 A500c	2065	40	82.6		A500c	6 A500c		0.0	0.222	0.00	7.0
	4	22 A500c	3940	40	157.6			8 A500c		0.0	0.394	0.00	
	5	8 A240c	1280	420	537.6			10 A500c	980.0	1029.0	0.616	0.63	
	6	8 A240c	1000	420	420			12 A500c		0.0	0.887	0.00	
1	20 A500c	5575	64	356.8		14 A500c			0.0	1.208	0.00		
2	20 A500c	3700	64	236.8		16 A500c			0.0	1.578	0.00		
S-2 (16 ცალი)	3	20 A500c	2065	64	132.16		18 A500c	245.0	257.3	1.997	0.51	7.0	
	4	20 A500c	3940	64	252.16		20 A500c	1162.0	1220.1	2.465	3.01		
	5	8 A240c	1280	672	860.16		22 A500c	901.0	946.1	2.983	2.82		
	6	8 A240c	1000	672	672		25 A500c		0.0	3.851	0.00		
	1	18 A500c	5575	16	89.2		სულ				8.52		
	2	18 A500c	3700	16	59.2								
S-3 (4 ცალი)	3	18 A500c	2065	16	33.04								
	4	18 A500c	3940	16	63.04								
	5	8 A240c	1280	168	215.04								
	6	8 A240c	1000	168	168								
S-4 (10 ცალი)	1	22 A500c	3700	40	148								
	2	22 A500c	3940	40	157.6								
	3	8 A240c	1280	420	537.6								
S-5 (6 ცალი)	1	20 A500c	3700	24	88.8								
	2	20 A500c	3940	24	94.56								
	3	8 A240c	1280	252	322.56								
რიგულთან გადაკვეთის უბნების გაძლიერება		10 A500c			980								
ბეტონი B25												23.8	

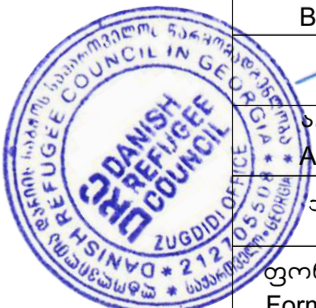


Plan of Girds at -0.080 level

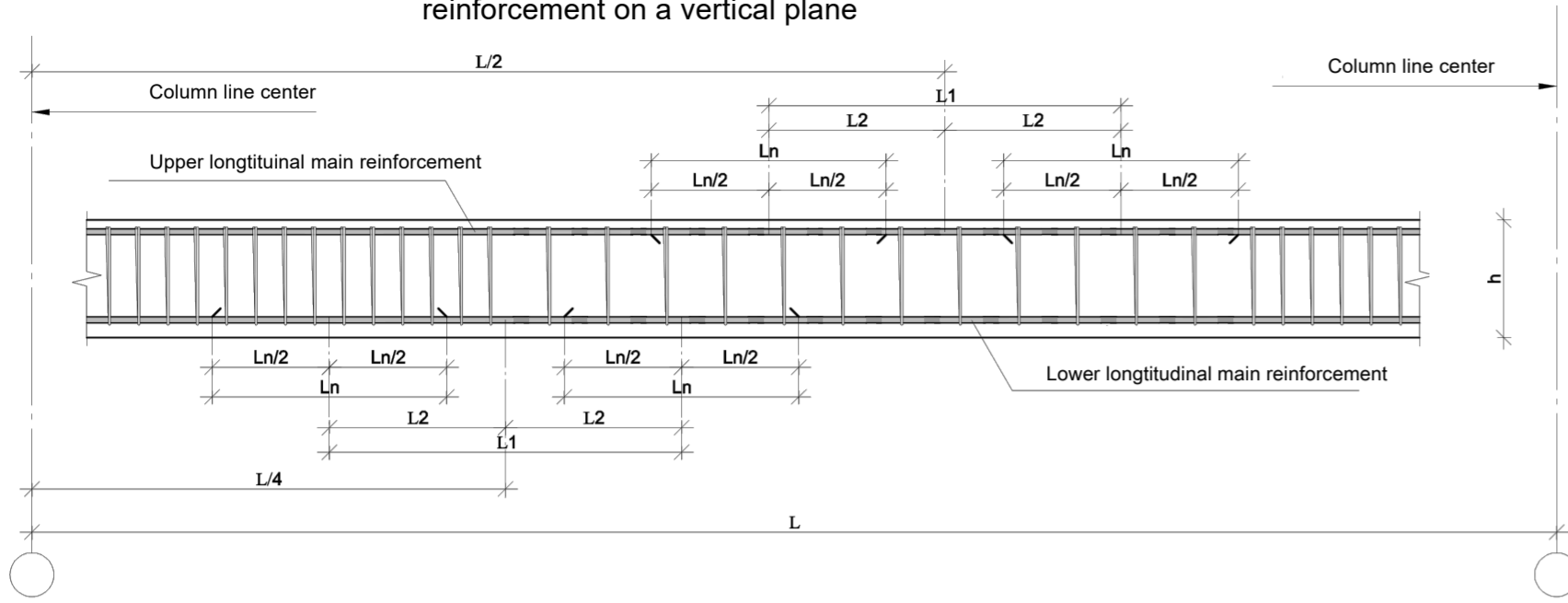


Walls of foundations on External perineter of the Building

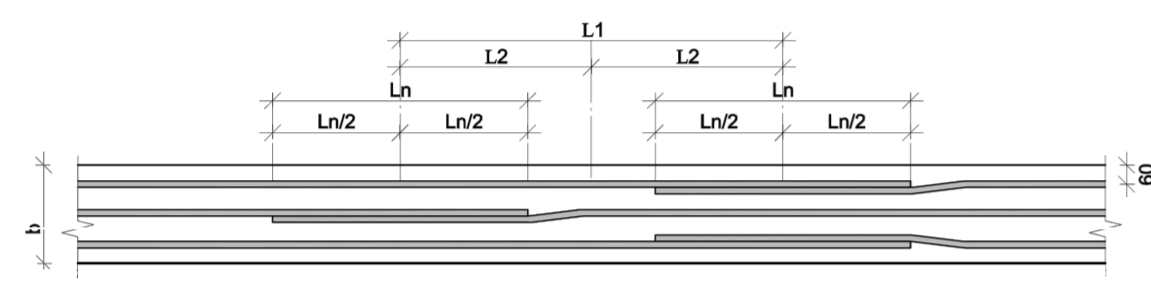
█ - Gird



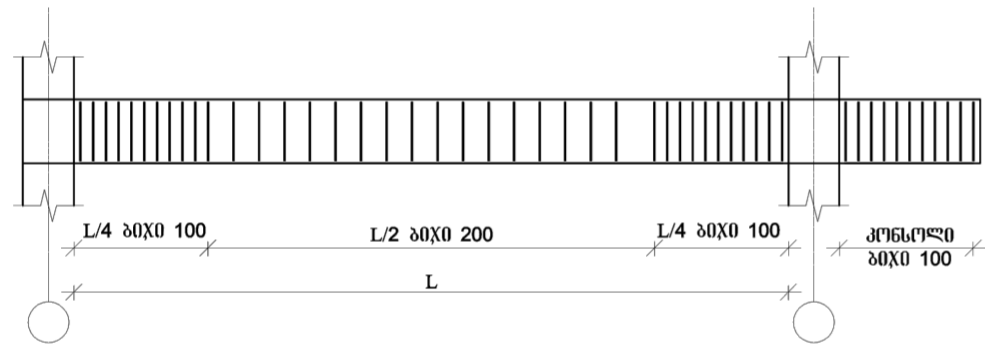
Locations of monolithic gird bonding by crossbar in the upper and lower span of the reinforcement on a vertical plane



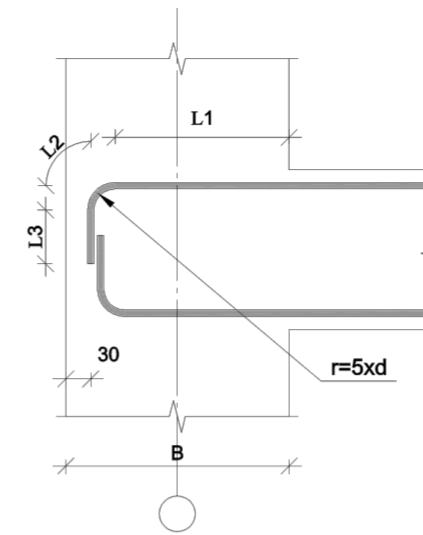
Plan of monolithic gird bonding of crossbar in the upper and lower span of the reinforcement



Allocation plan of gird hanger



Fixing (bending) Node of Grid in the upper and lower reinforcement column



Parameters of fixing node of grid in the upper and lower reinforcement column

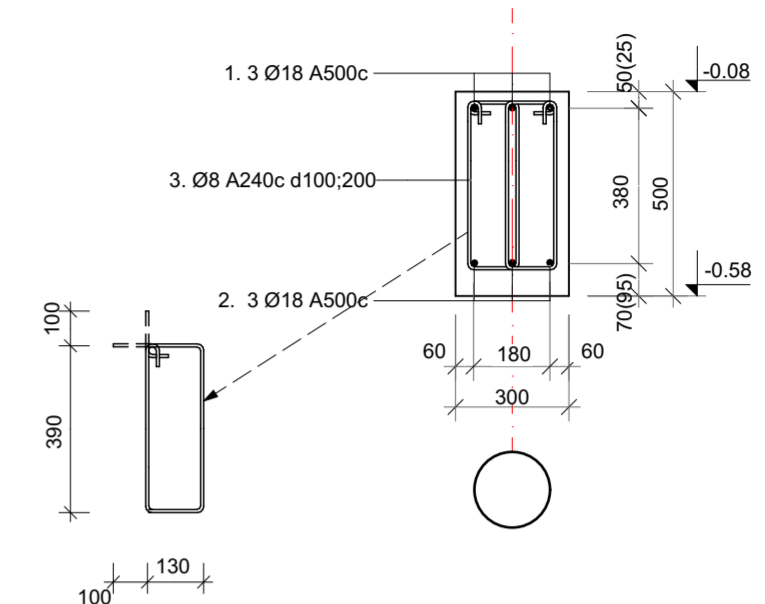
რეონი (B=400)

არმაბუნის დიამეტრი (mm)	სიგრძე (mm)	რაოდენობა	სიგრძე (mm)	რაოდენობა	სიგრძე (mm)	რაოდენობა
Ø16 A500C	640	80	320	126	194	
Ø18 A500C	720	90	360	141	219	
Ø20 A500C	800	100	400	157	243	

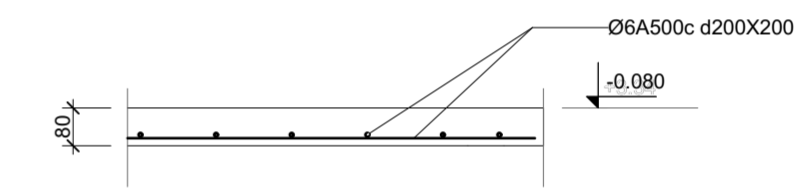
Parameters of gird bond crossbar in the upper and lower reinforcement

არმაბუნის დიამეტრი (mm)	არმაბუნის ბაზალა (mm)	ბაზალის სიგრძე (mm)	არმაბუნის რაოდენობა (მეტრი)	საერთო სიგრძე (მ)
Ø16 A500C	640	960	480	1600
Ø18 A500C	720	1080	540	1800
Ø20 A500C	800	1200	600	2000
Ø22 A500C	880	1320	660	2200
Ø25 A500C	1000	1500	750	2500

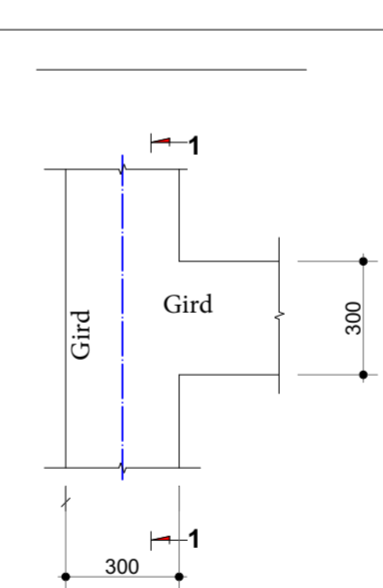
Section on Gird



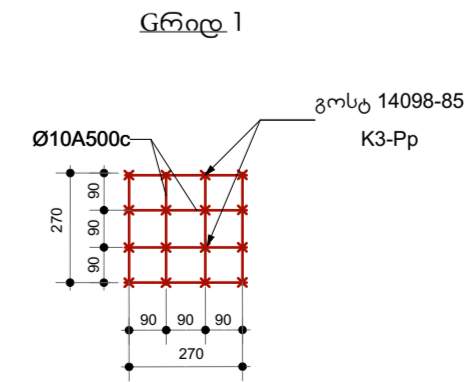
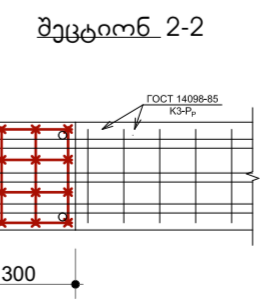
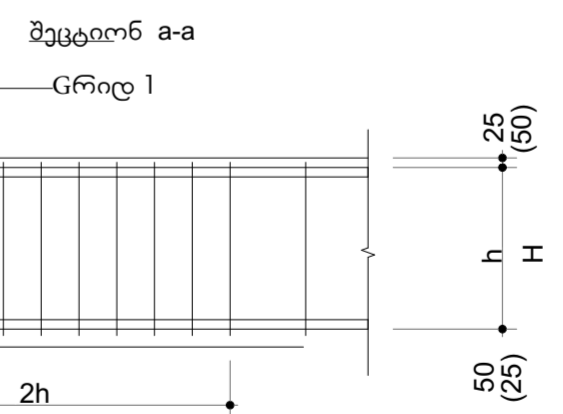
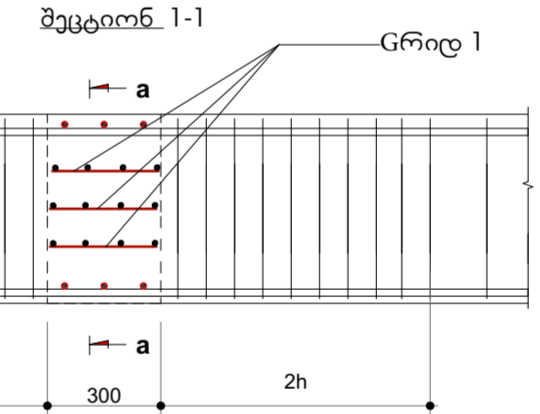
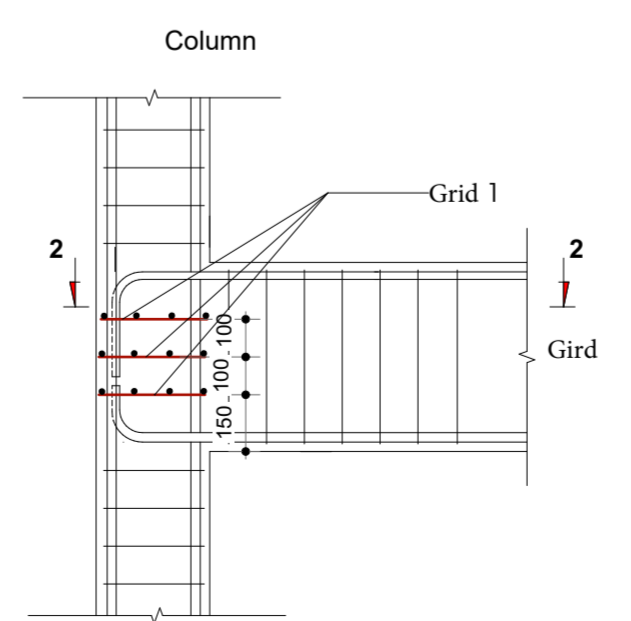
დატაკის ფილის არმირება



Strengthening of the Gird to Gird Connection Node



Strengthening of the intersection of grid and columns



კლუბი	№	არმაბუნის დიამეტრი	სიგრძე (მ)	რაოდენობა	საერთო სიგრძე (მ)	ბეტონი (მ3)
რეინაბეტონის რეგულაციები (რანდოკები)						
	1	18 A500c	249000	3	747	
	2	18 A500c	249000	3	747	
	3	8 A240c	1240	3320	4116.8	
	ბეტონი B25 m3					36.7
დატაკის რეინაბეტონის ფილა		6 A500c			5870.00	
	ბეტონი B15 m3					47.8

კლუბი	არმაბუნის დიამეტრი	არმაბუნის აპოკრეფა				საერთო სიგრძე (მ)	ბეტონი (მ3)		
		საერთო სიგრძე (მ)	საერთო სიგრძე განაკრები (მ)	გრამების წონა	საერთო წონა (კვადრატული მეტრი)				
A240c	6 A240c		0.0	0.222	0.00	1.7	4.4		
	8 A240c	4117.0	4322.9	0.394	1.70				
	6 A500c	5870.0	5870.0	0.222	1.30				
A500c	8 A500c		0.0	0.394	0.00	4.4	6.14		
	10 A500c		0.0	0.616	0.00				
	12 A500c		0.0	0.887	0.00				
	14 A500c		0.0	1.208	0.00				
	16 A500c		0.0	1.578	0.00				
	18 A500c	1494.0	1568.7	1.997	3.13				
	20 A500c		0.0	2.465	0.00				
	22 A500c		0.0	2.983	0.00				
	25 A500c		0.0	3.851	0.00				
	სულ							6.14	

Project address:
Georgia,
Zugdidi

Stage:
Architectural project

Monolith Gird
Strengthening
of Nodes

ბ. ქანთარია
B. Qantaria

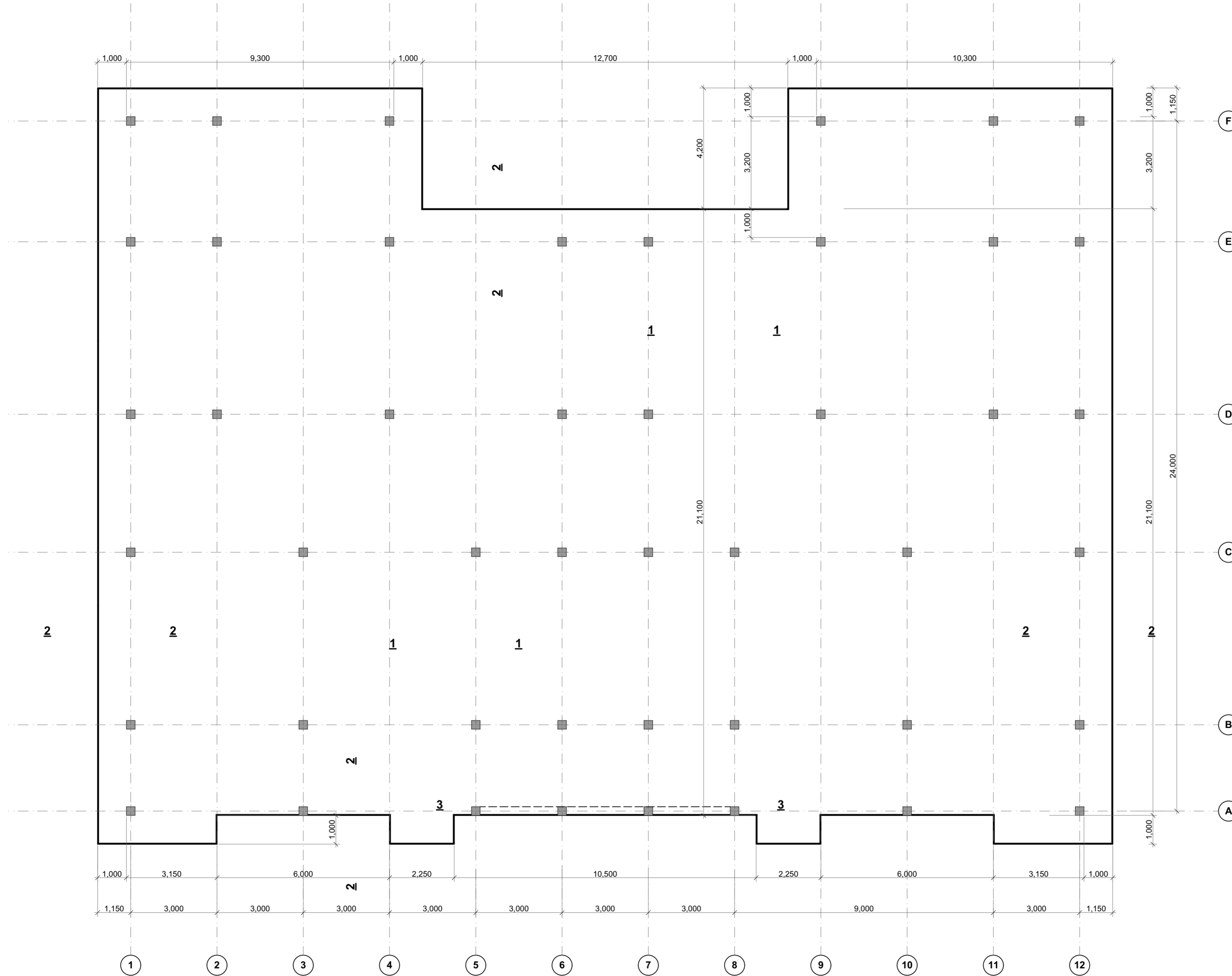
გერგედავა
A. Gergedava

ფორმატი
Format A - 2

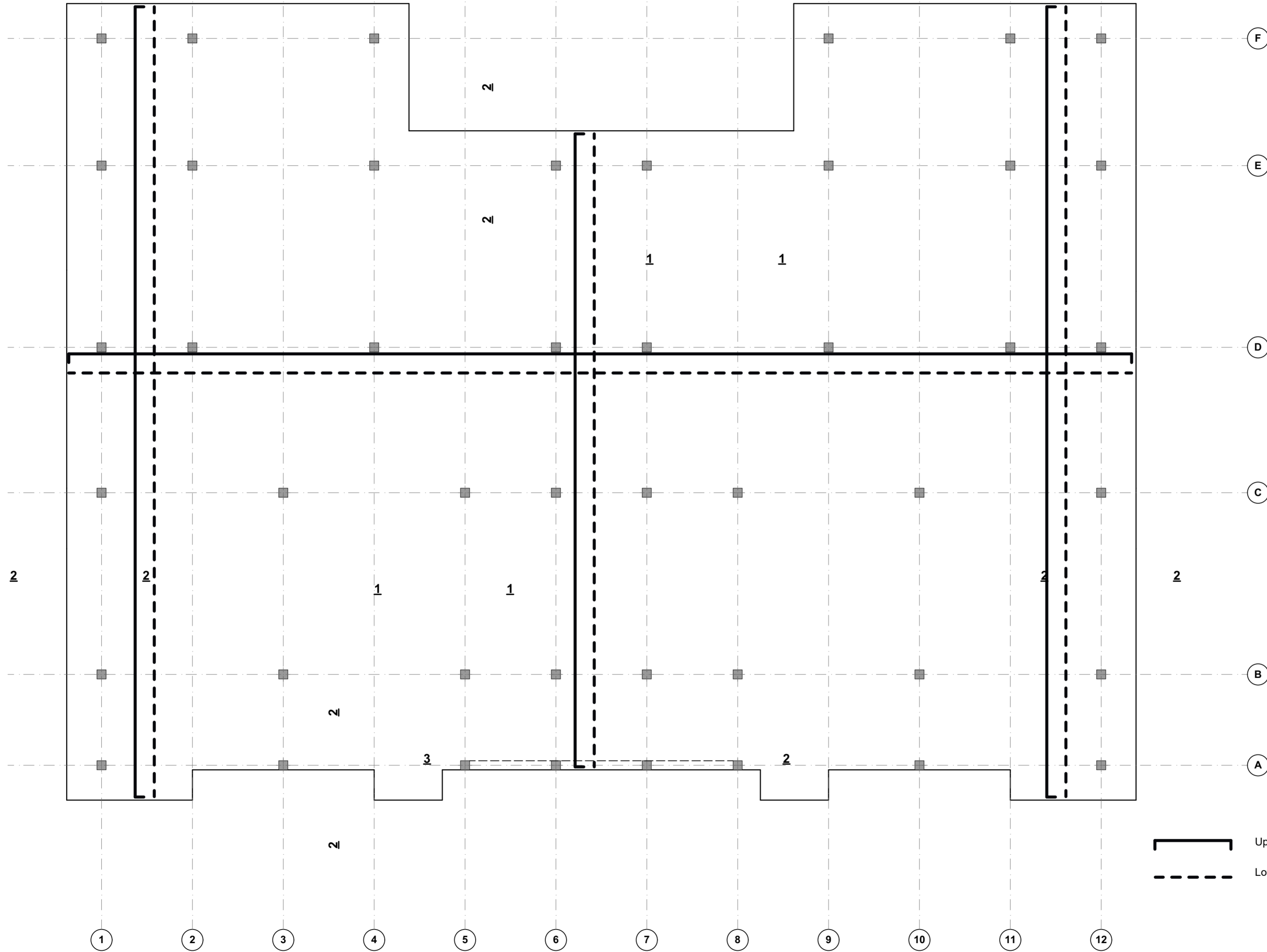
ფურცელი
Page 16
ფურცლები
Pages 27



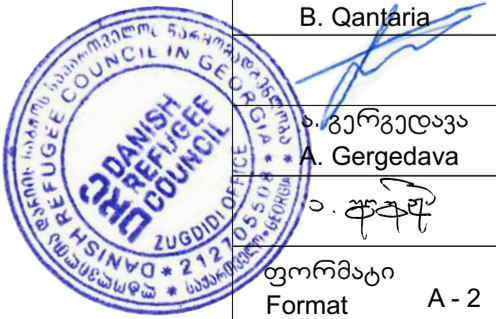
Plan of Floor Slab at +3.70 level



Primary reinforcement of floor slab (upper and lower zone)



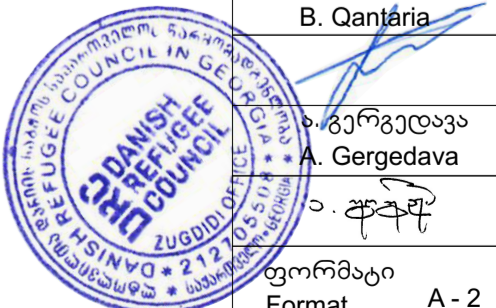
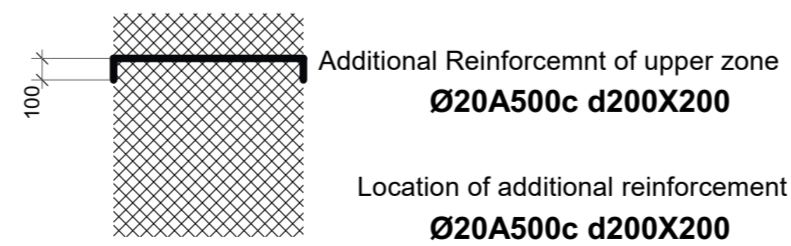
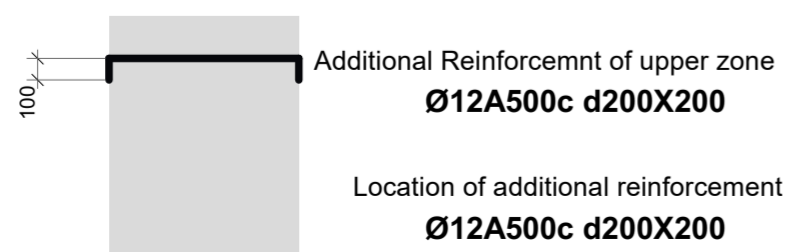
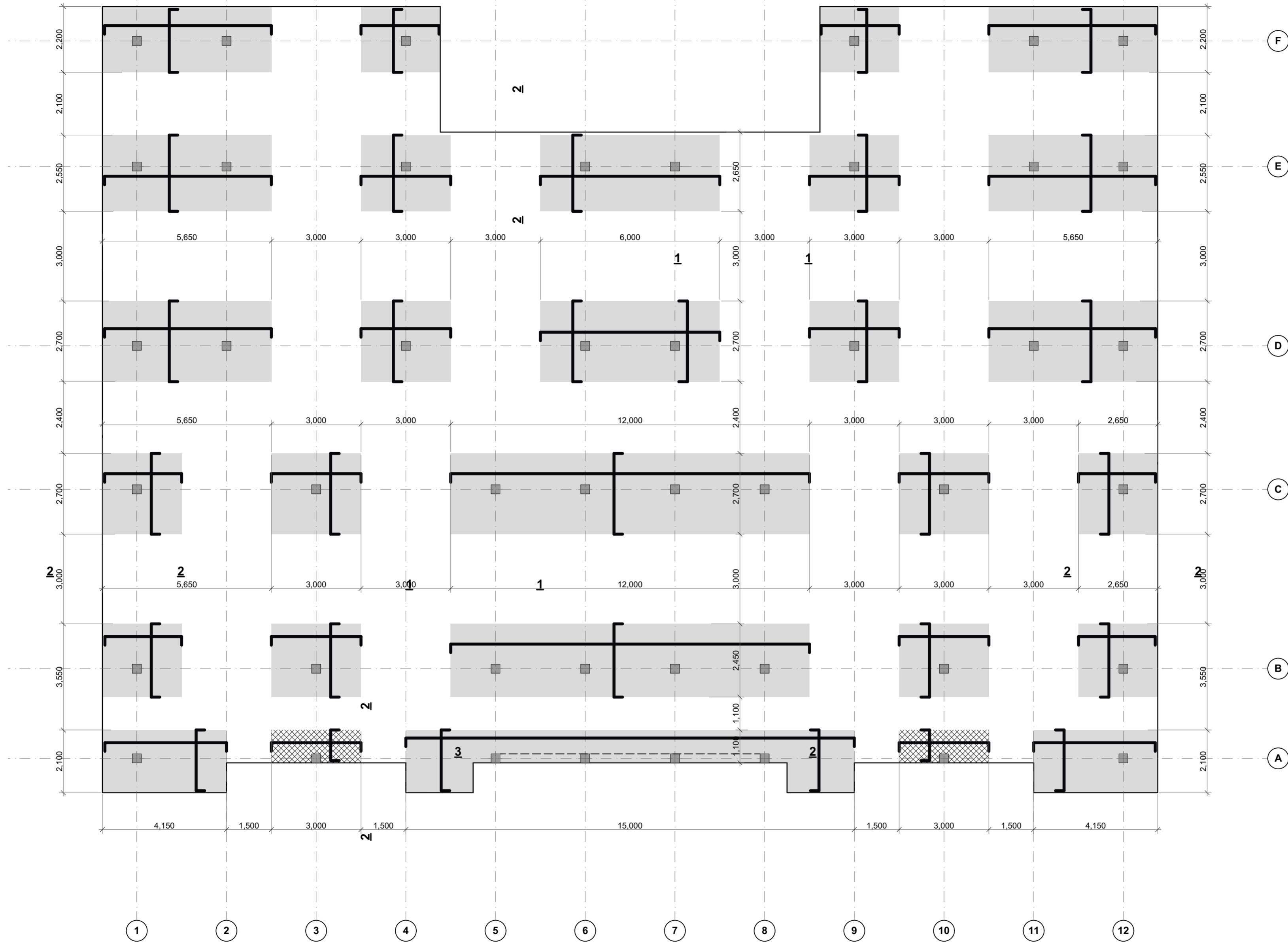
Upper zone reinforcement **Ø8A500c d200X200**
Lower zone reinforcement **Ø10A500c d200X200**



Additional Reinforcement of the Floor Slab

Ø12A500c d200X200

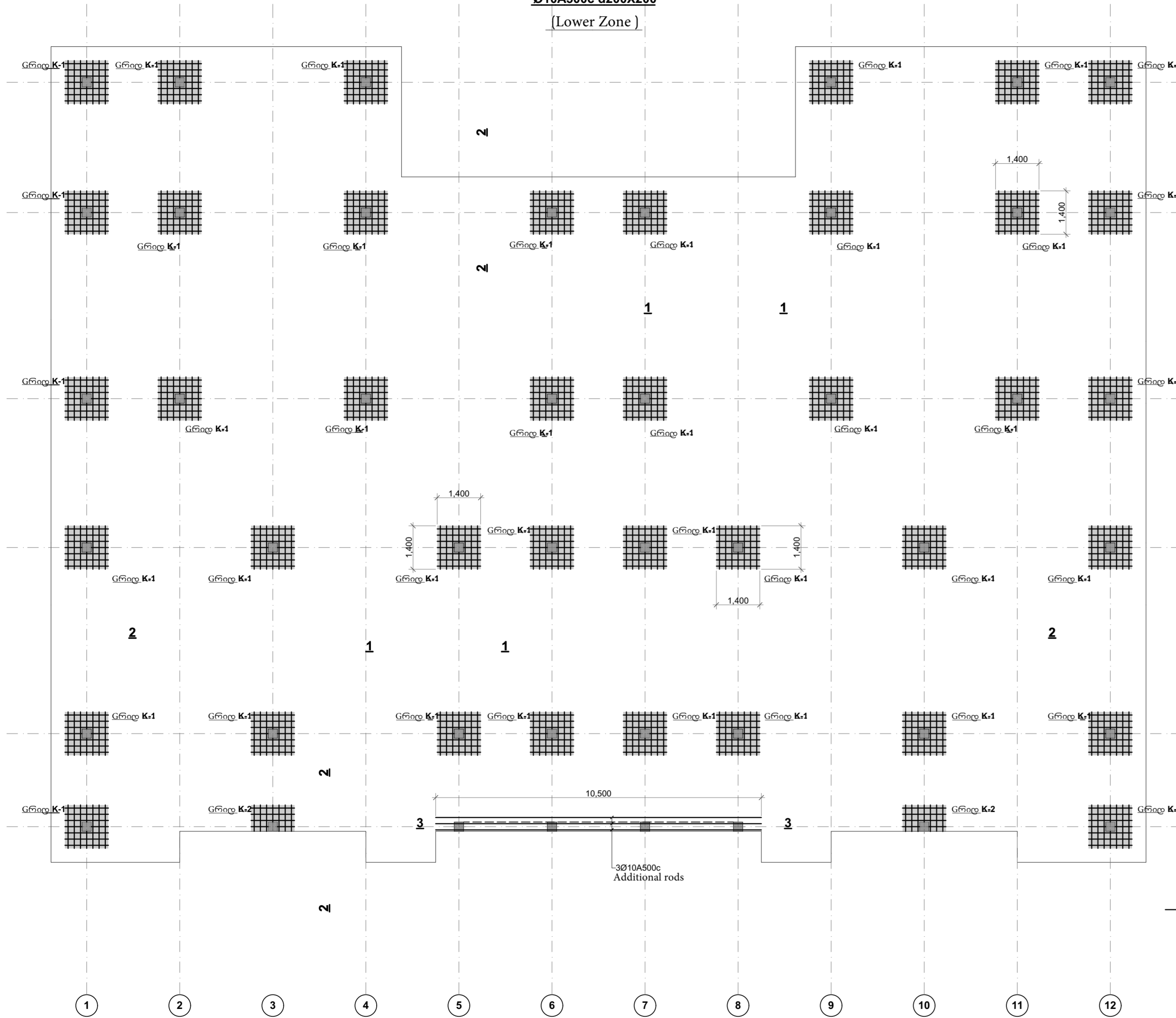
Upper Zone



Additional Reinforcement of Floor Slab

Ø10A500c d200X200

(Lower Zone)



Element	№	არმატურის პროფილი	სიგრძე მმ	რაოდენობა	საერთო სიგრძე მ	ბეტონი მ3
გადახურვის ფილა Floor slab						
გადახურვის ფილა Floor slab	Lower	შპ (ა)	10 A500c		8750	
	Upper	შუღა(ა)	8 A500c		9010	
	Lower	შპ (დ)	10 A500c		927	
	Upper	შუღა(დ)	12 A500c		3630	
			20 A500c		150	
	საკ	8 A500c		5520		
ბეტონი B25 m3 Concrete						176.4

Specification of reinforcement არმატურის ამოკრეფა

კლასი Section	საერთო სიგრძე მ total length m	საერთო სიგრძე დანაკარგი მ	გრამის წონა r/m weight	საერთო წონა Total weight ton	საერთო წონა კლასის მიხედვით ტონა Total Weight (per class) ton
A240c	6 A240c		0.0	0.222	0.00
	8 A240c		0.0	0.394	0.00
A500c	6 A500c		0.0	0.222	0.00
	8 A500c	14530.0	15256.5	0.394	6.02
	10 A500c	9677.0	10160.9	0.616	6.26
	12 A500c	3630.0	3811.5	0.887	3.38
	14 A500c		0.0	1.208	0.00
	16 A500c		0.0	1.578	0.00
	18 A500c		0.0	1.997	0.00
	20 A500c	150.0	157.5	2.465	0.39
	22 A500c		0.0	2.983	0.00
25 A500c		0.0	3.851	0.00	
სულ				16.05	

Kindergarten Laghidze street, Zugdidi

Project address: Georgia, Zugdidi

Stage: Architectural project

Additional Reinforcement of Floor Slab Lower Zone

Additional reinforcement of the lower zone **Ø10A500c d200X200**

Additional locations of reinforcement

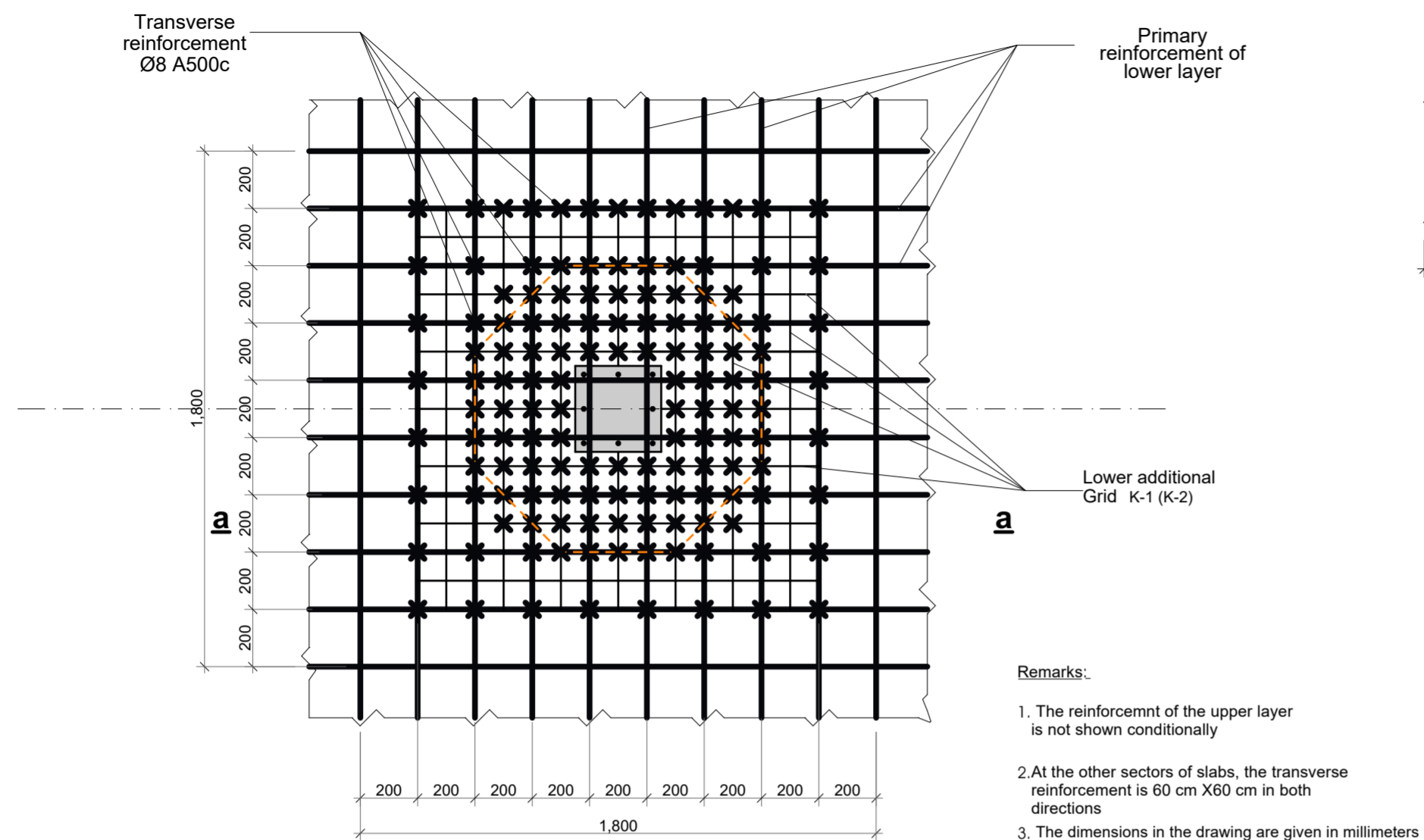
ბ. ჯანთარია B. Qantaria

ა. გერგედავა A. Gergedava



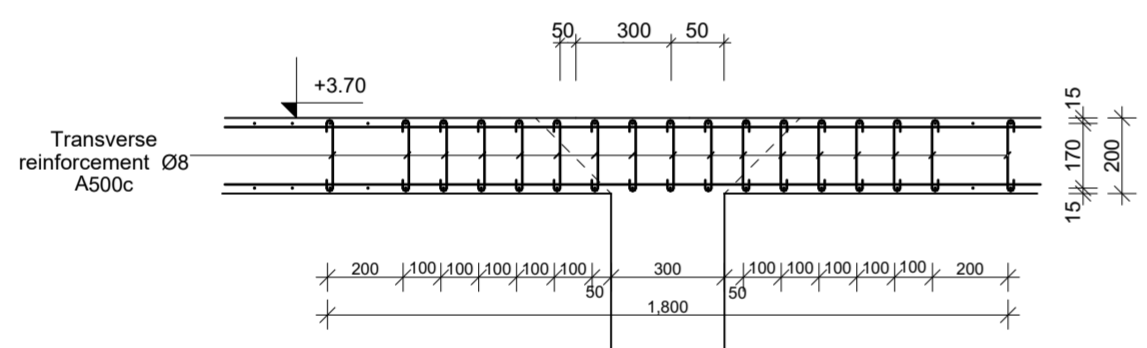
ფორმატი Format A - 2

Scheme of transverse reinforcement sector by column capital



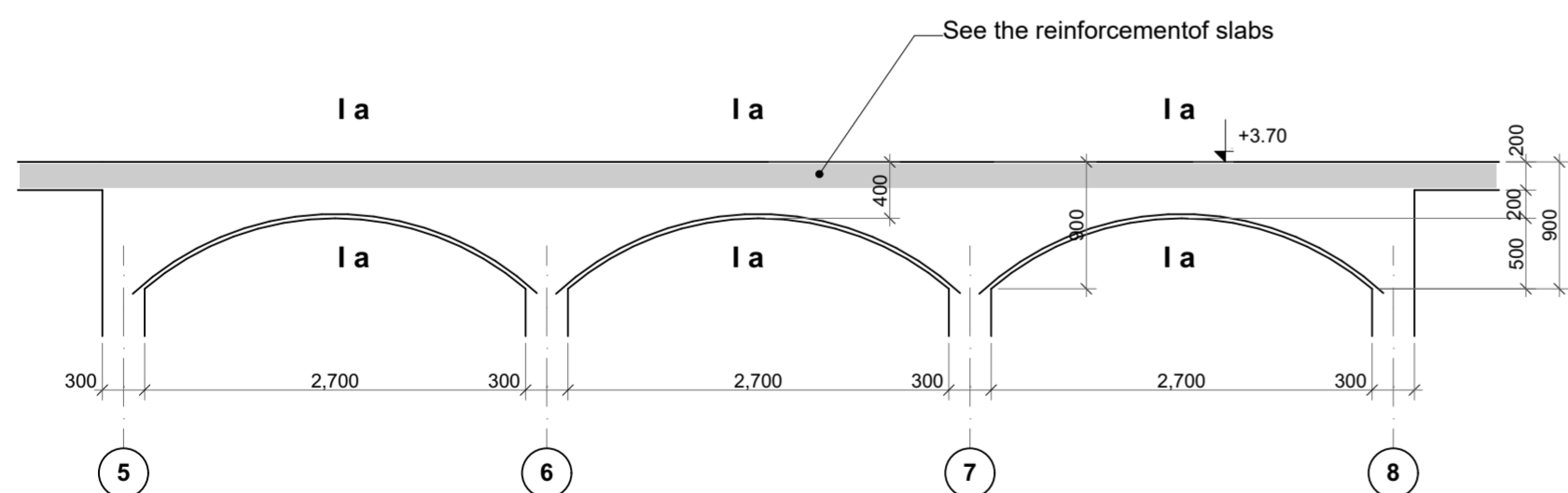
- Remarks:
1. The reinforcement of the upper layer is not shown conditionally
 2. At the other sectors of slabs, the transverse reinforcement is 60 cm X 60 cm in both directions
 3. The dimensions in the drawing are given in millimeters
 4. Grid K-1 is installed in lower zone of the slab between the main reinforcement rods

a - a

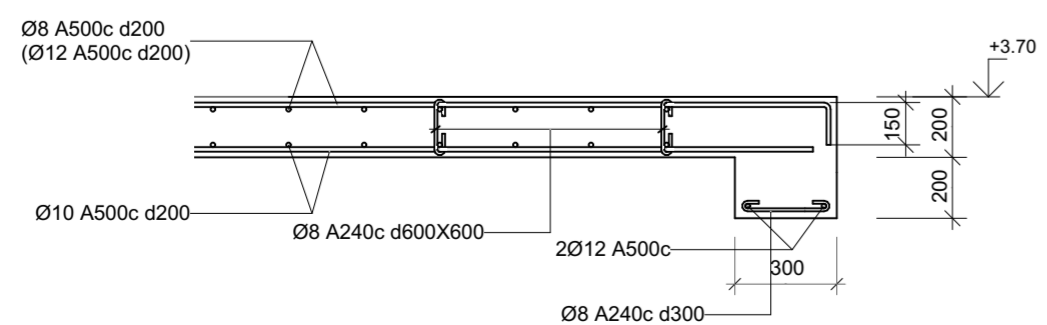


Section in Arched Sectors

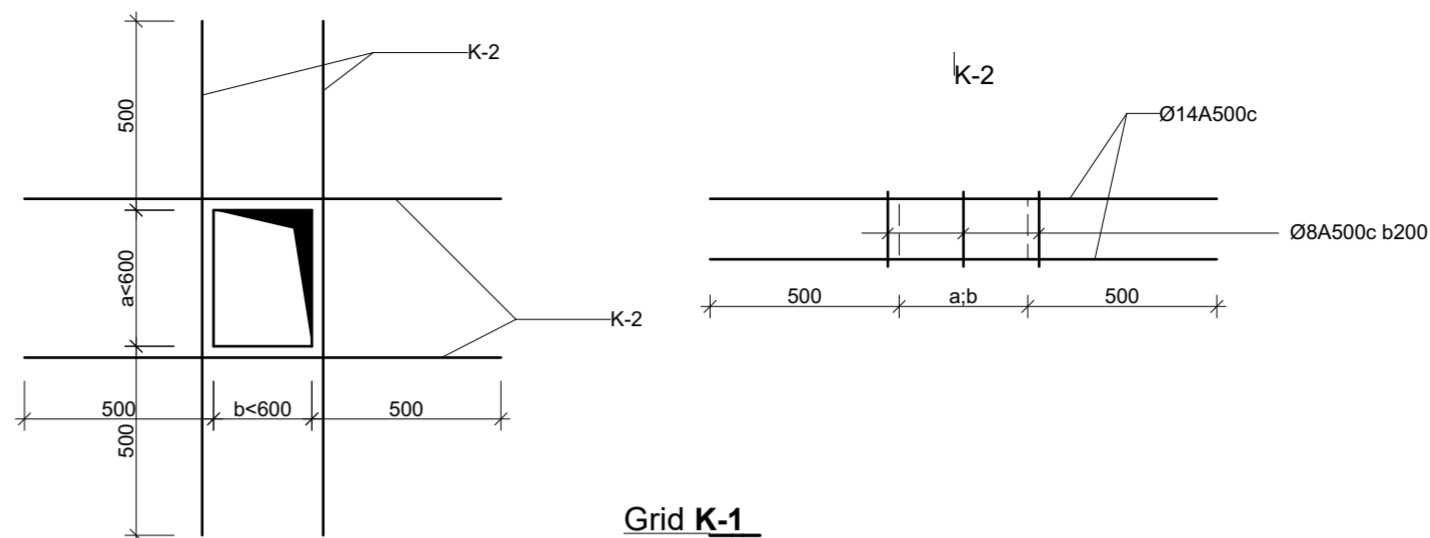
3-3



Section a-a

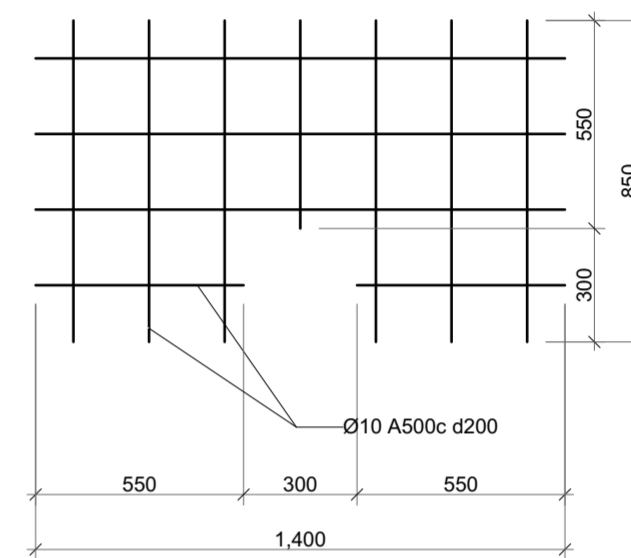
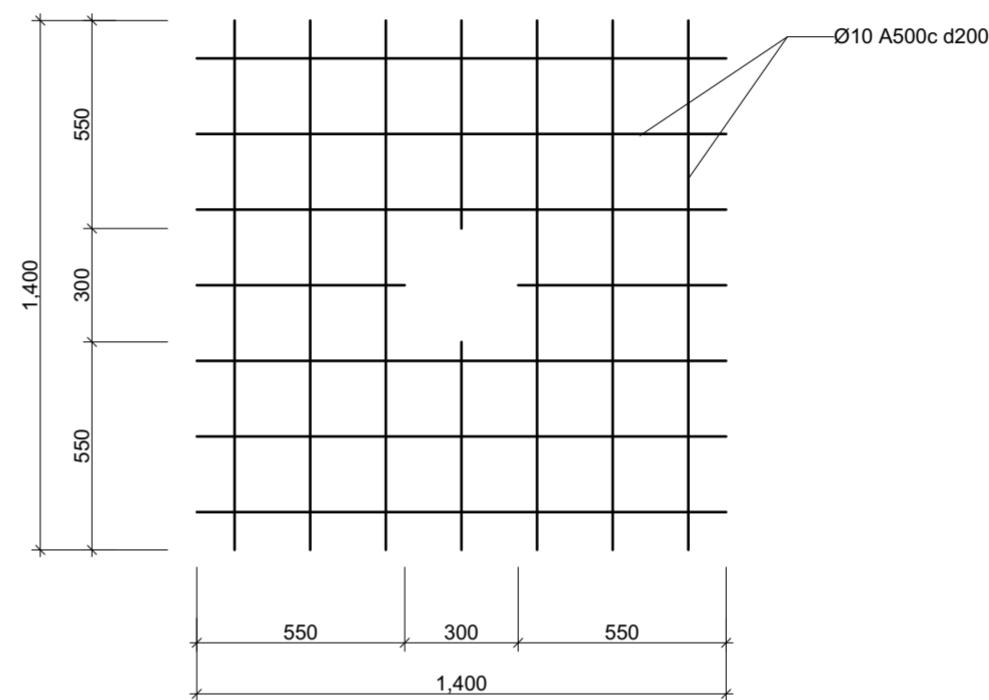


Plan of reinforcement of slabs at perforation

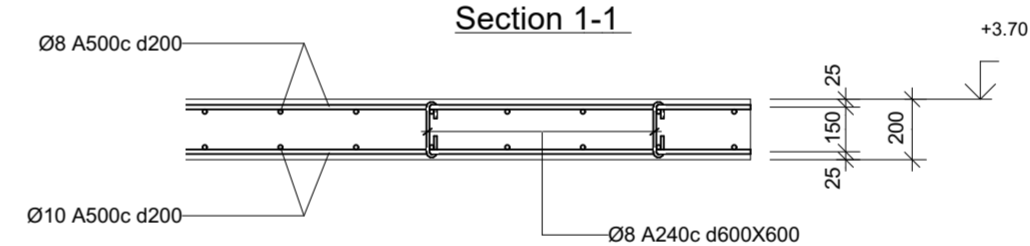


Grid K-1

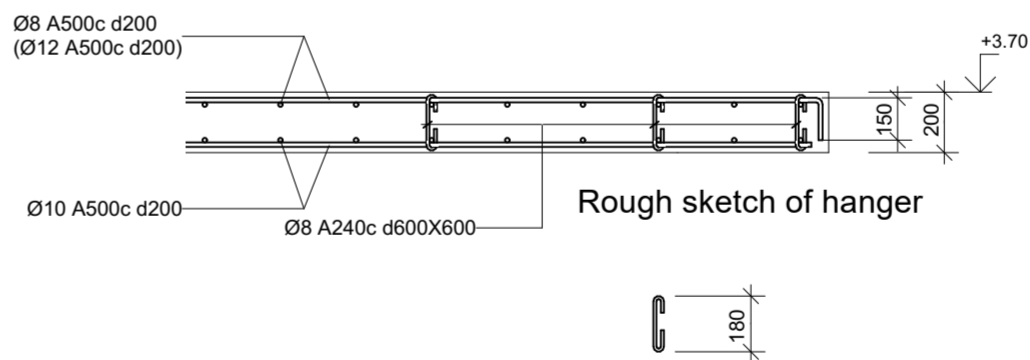
Grid K-2



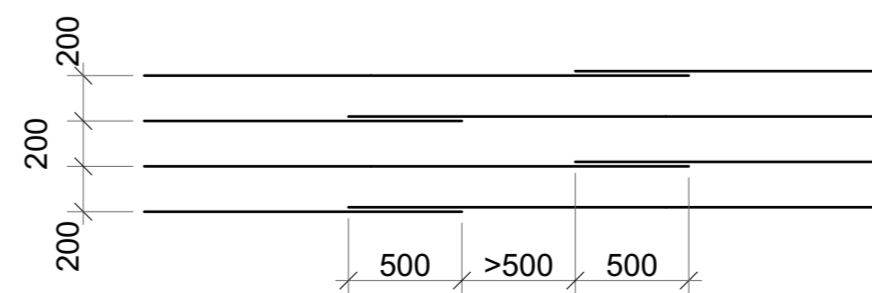
Section 1-1



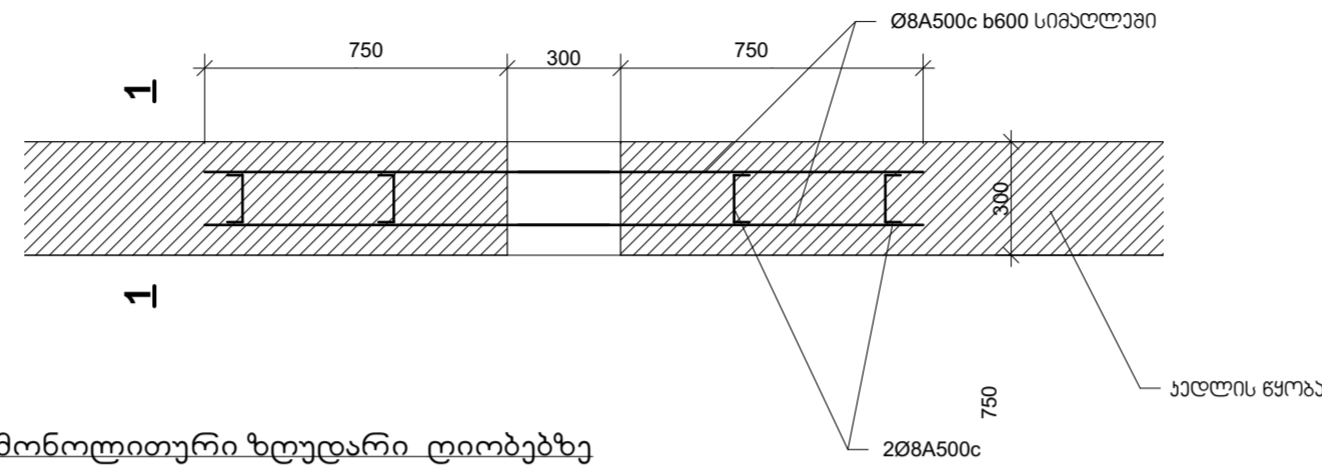
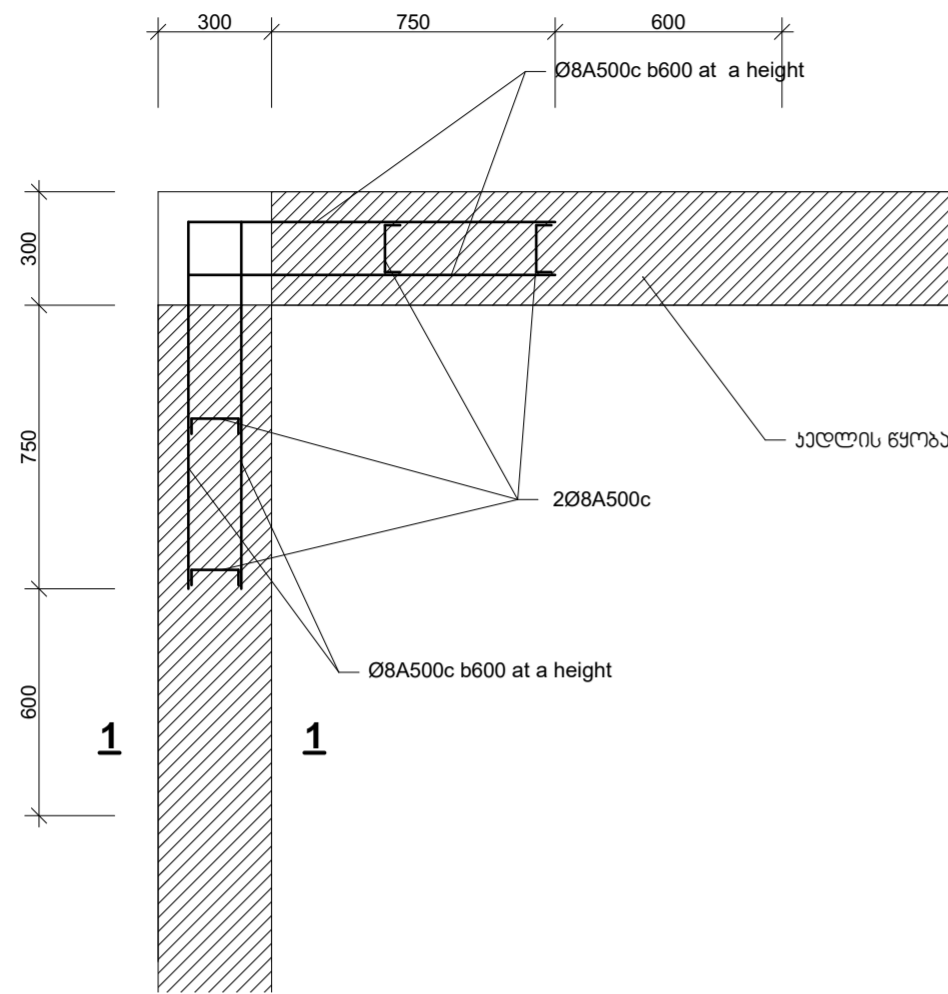
Section 2-2 at the edge of the slab



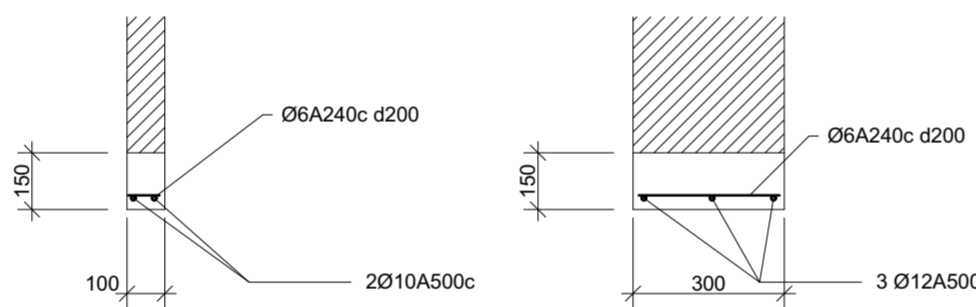
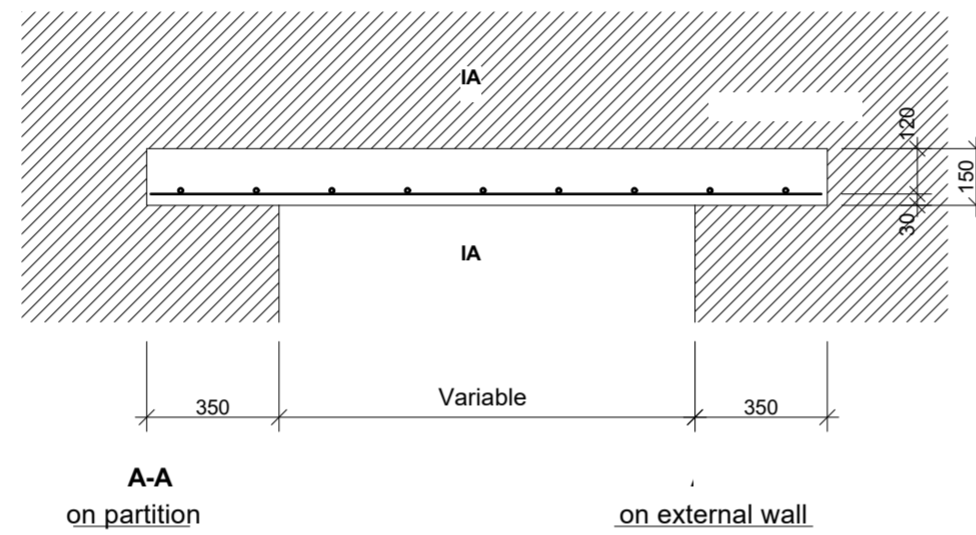
Scheme of bonding of reinforcement in slab



Connection of Columns with External Walls

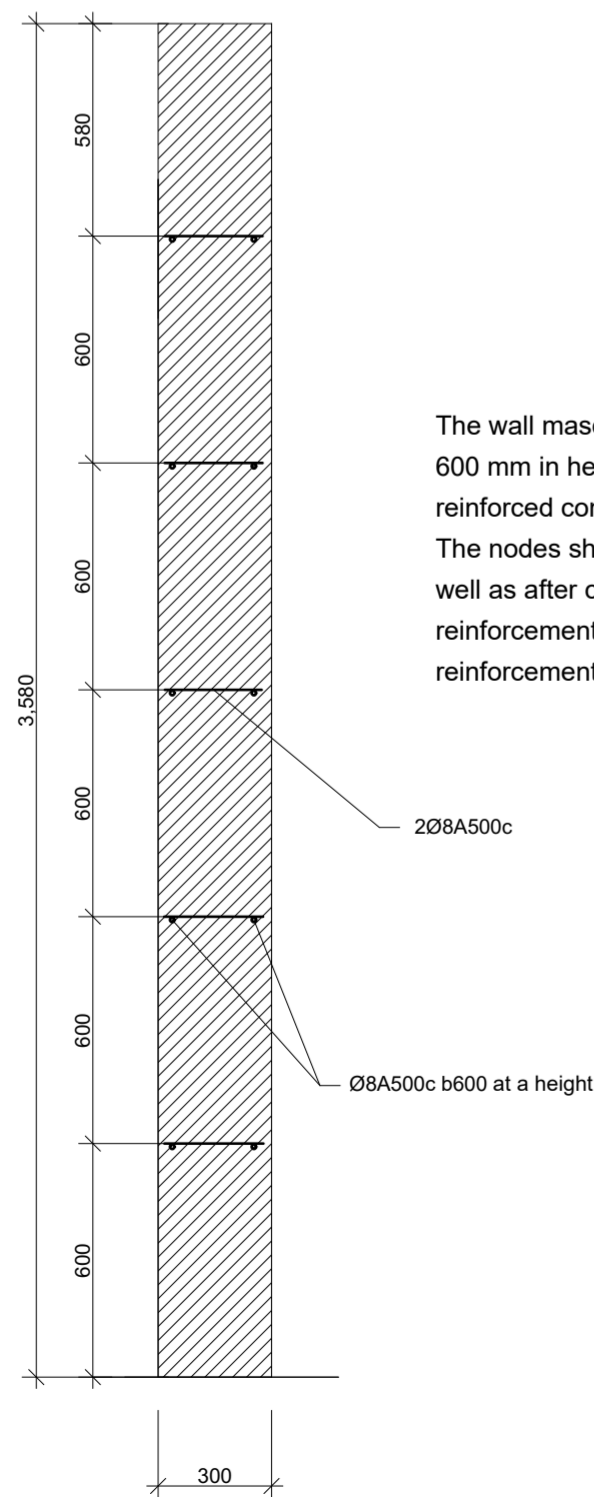


მონოლითური ზღუდარი დიობებზე



The wall masonry should be connected to the wall frames by reinforcement cantilever of 750 mm long and 600 mm in height. If the wall (masonry) length is more than 3 meters, it must be connected to the reinforced concrete structure of the ceiling with reinforcement rods.

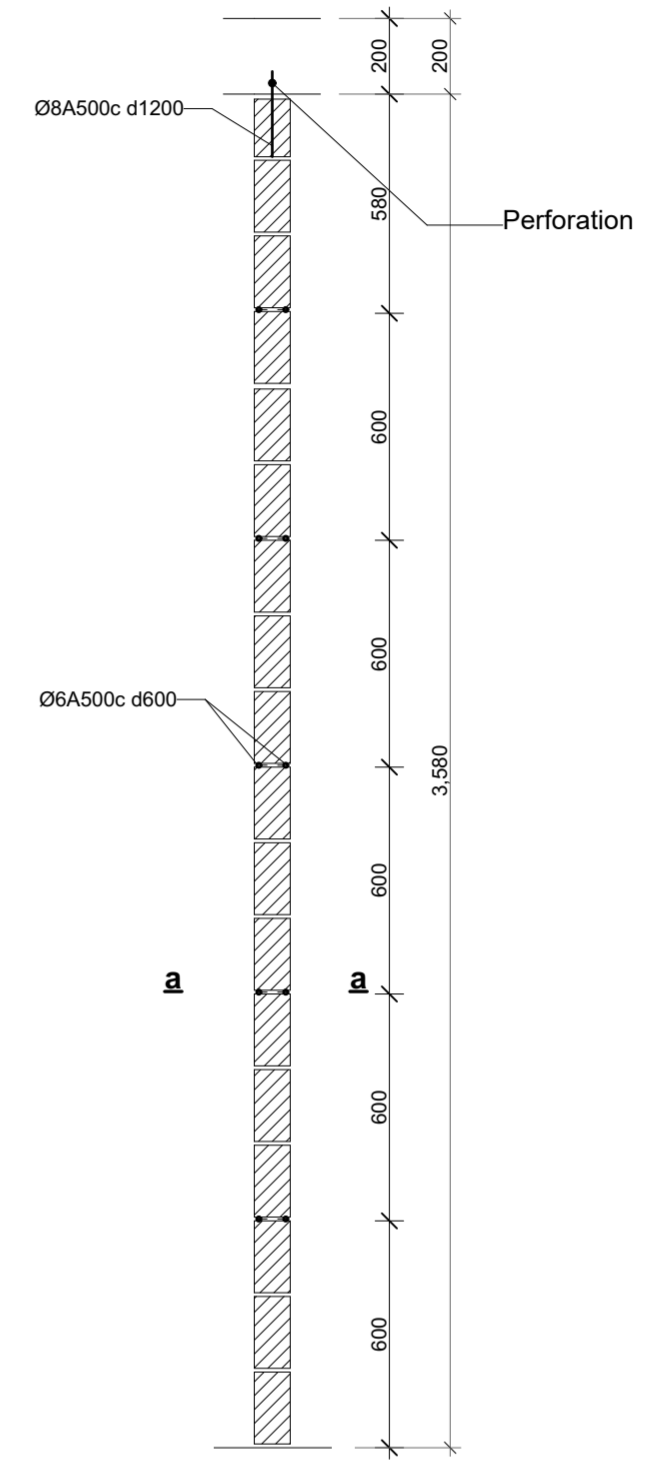
The nodes shown in the drawing can be made by building the framed and bearing walls simultaneously, as well as after concreting. It requires perforation of the frame structure at 20 cm depth and anchor reinforcement rods by a polymer cement solution. Stone partitions should be reinforced with 2Ø6A1 reinforcement, at 600mm spacing in height, and anchored with reinforced concrete frame or wall masonry.



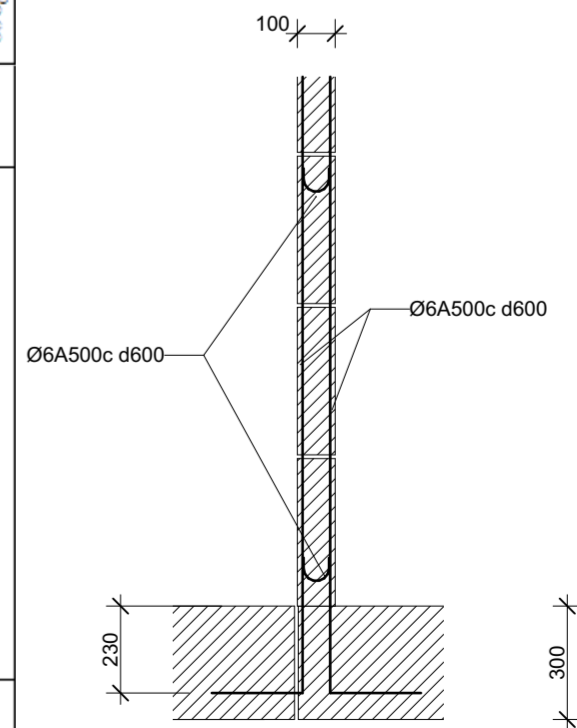
ელემენტი	№	არმატურის პროფილი	სიგრძე მმ	რაოდენობა	საერთო სიგრძე მ	ბეტონი მ3
ზღუდარები						
ზღუდარი გარე კედელზე	1	12 A500c			520	
	2	6 A240c			420	
ზღუდარი შიგა კედლებზე	1	10 A500c			410	
	2	6 A240c			125	
ბეტონი B25 m3						8.4
კედლების და ტიხრების არმირება						
ტიხრების არმირება		6 A500c			3240	
გარე კედლების და ხეობების კეშირი		10 A500c			1150	

არმატურის ამოკრეფა						
კეფი	საერთო სიგრძე მ	საერთო სიგრძე დანაკარგით მ	გრძობის წონა	საერთო წონა ტონა	საერთო წონა (კლასის მიხედვით) ტონა	
A240c	6 A240c	545.0	545.0	0.222	0.12	0.1
	8 A240c		0.0	0.394	0.00	
A500c	6 A500c	3240.0	3240.0	0.222	0.72	2.2
	8 A500c		0.0	0.394	0.00	
	10 A500c	1560.0	1638.0	0.616	1.01	
	12 A500c	520.0	546.0	0.887	0.48	
	14 A500c		0.0	1.208	0.00	
	16 A500c		0.0	1.578	0.00	
	18 A500c		0.0	1.997	0.00	
	20 A500c		0.0	2.465	0.00	
	22 A500c		0.0	2.983	0.00	
	25 A500c		0.0	3.851	0.00	
სულ				2.33		

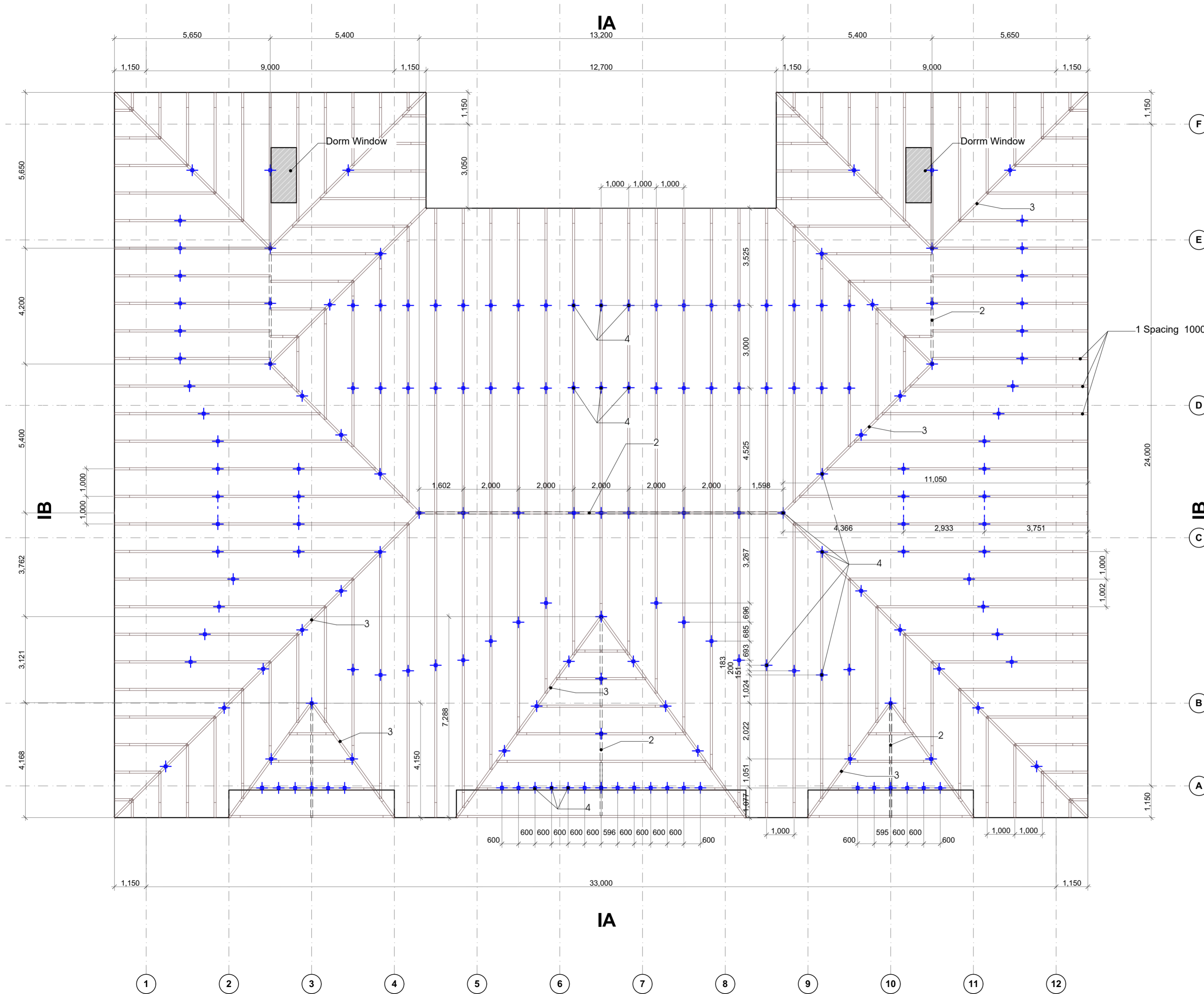
ტიხრის არმირება
Partition reinforcement

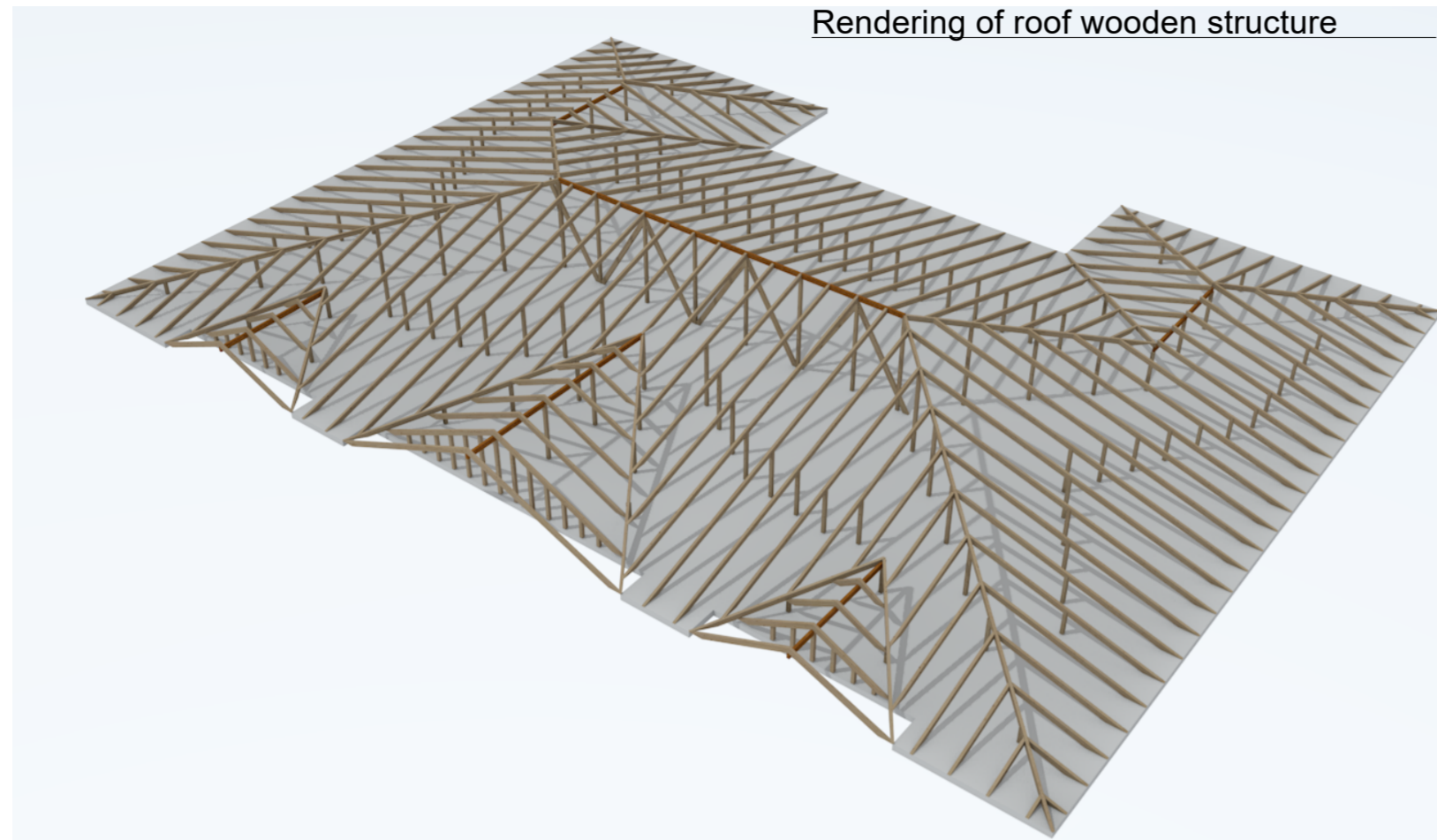


a - a



Plan of Wooden Structure of the Roof

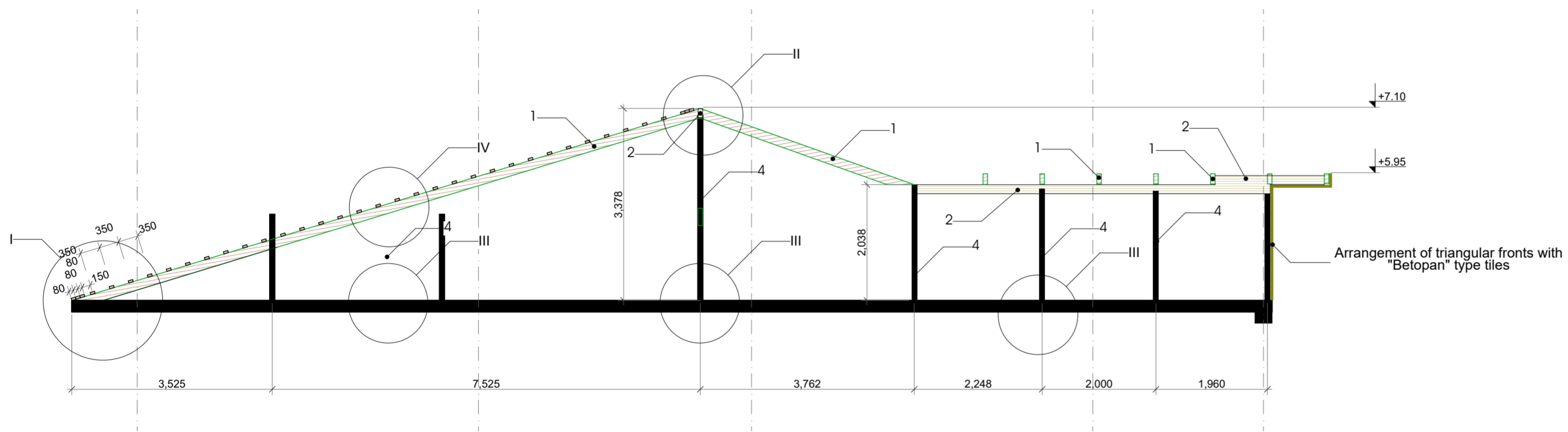




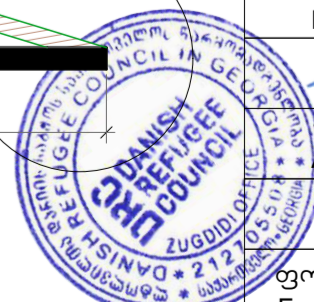
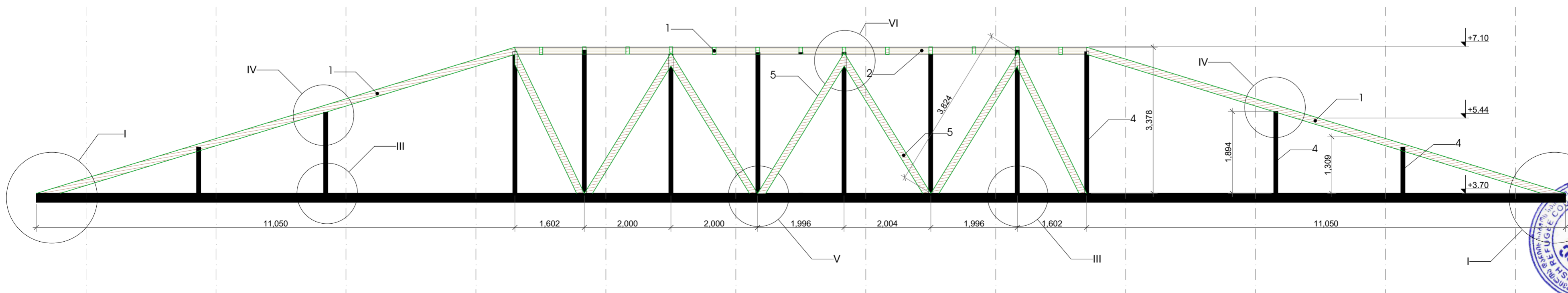
Rendering of roof wooden structure

ხის უბეჭებების სპეციფიკაცია					
№	კომპონენტის დასახელება Beam Section	სიგანა მმ Width mmm	სიმაღლე მმ Height mm	საერთო სიგრძე მ Total length m	მოცულობა მ ³ Volume m3
1	603603ა Rafter	80	160	825	10.56
2	ქახის კოჭი Wooden beam	80	160	45	0.58
3	დიაგონალური 603603ა Diagonal rafter	80	160	142	1.82
4	ღვარი Pillar	100	100	320	3.20
5	ორიგანა უბეჭებისთვის For diagonal connections	100	100	28	0.28
6	ლატყის ძალიანი Squared timber bar	40	80	3120	9.98
				Σ	26.42

Section A-A



Section B-B



Project address:
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Zugdidi

Stage:
Architectural project

Section A-A; B-B
render

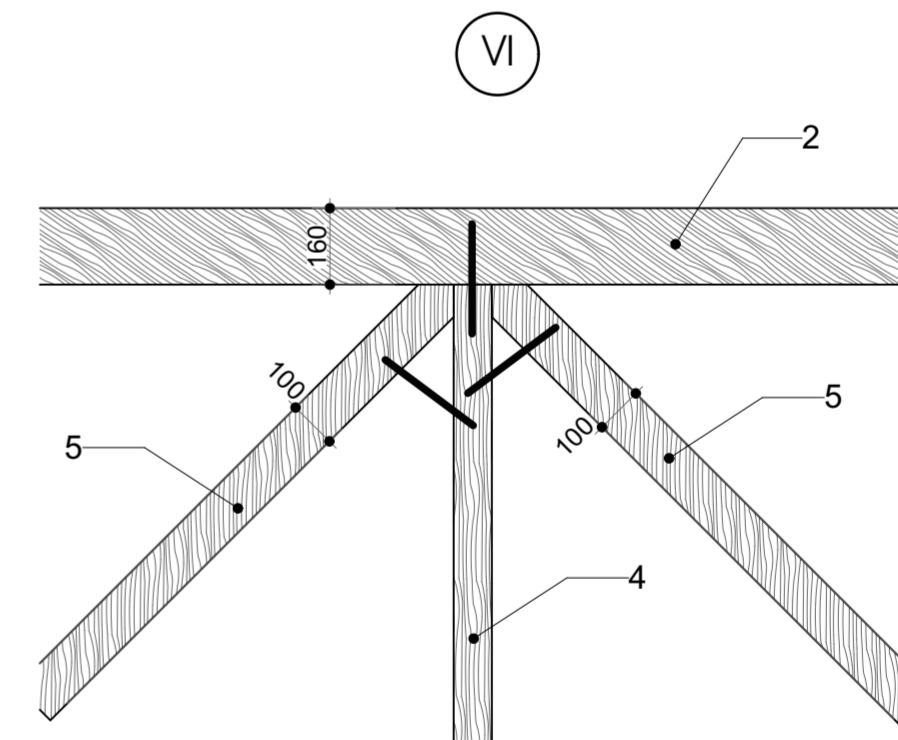
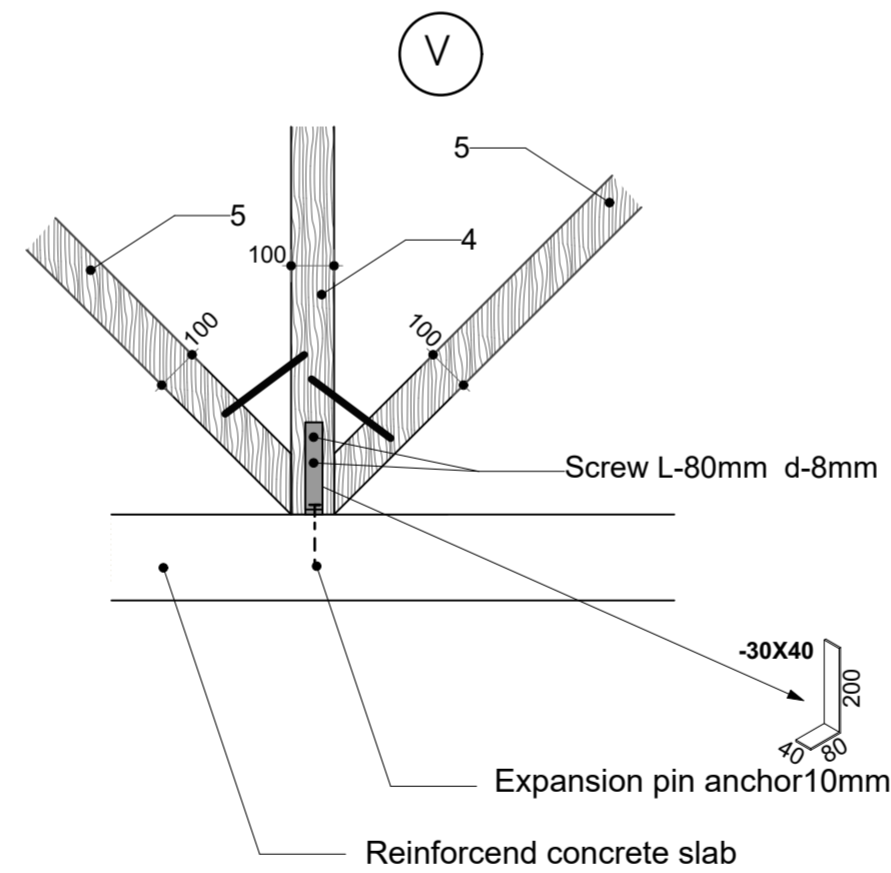
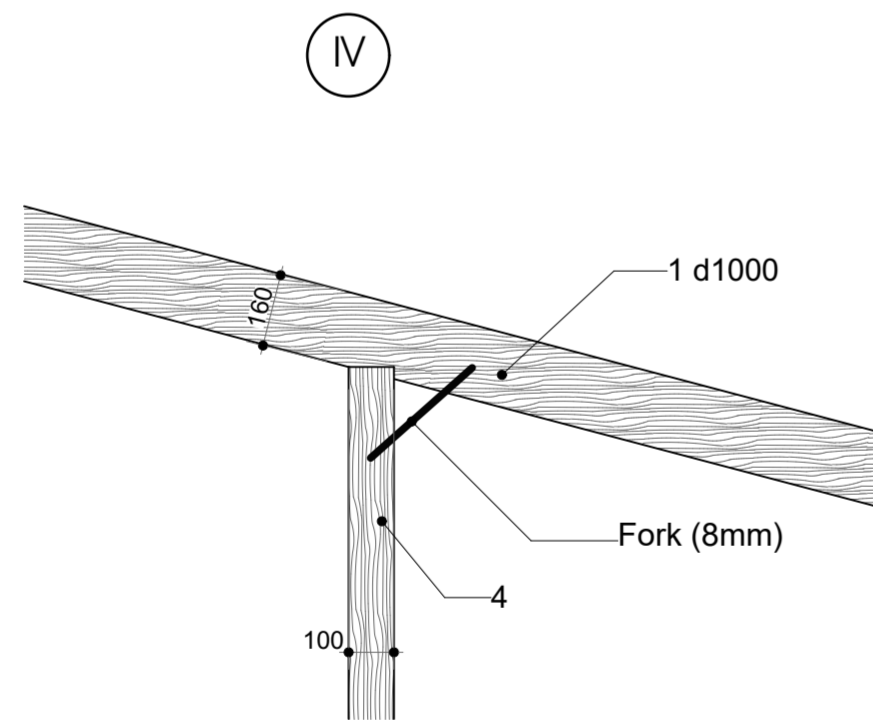
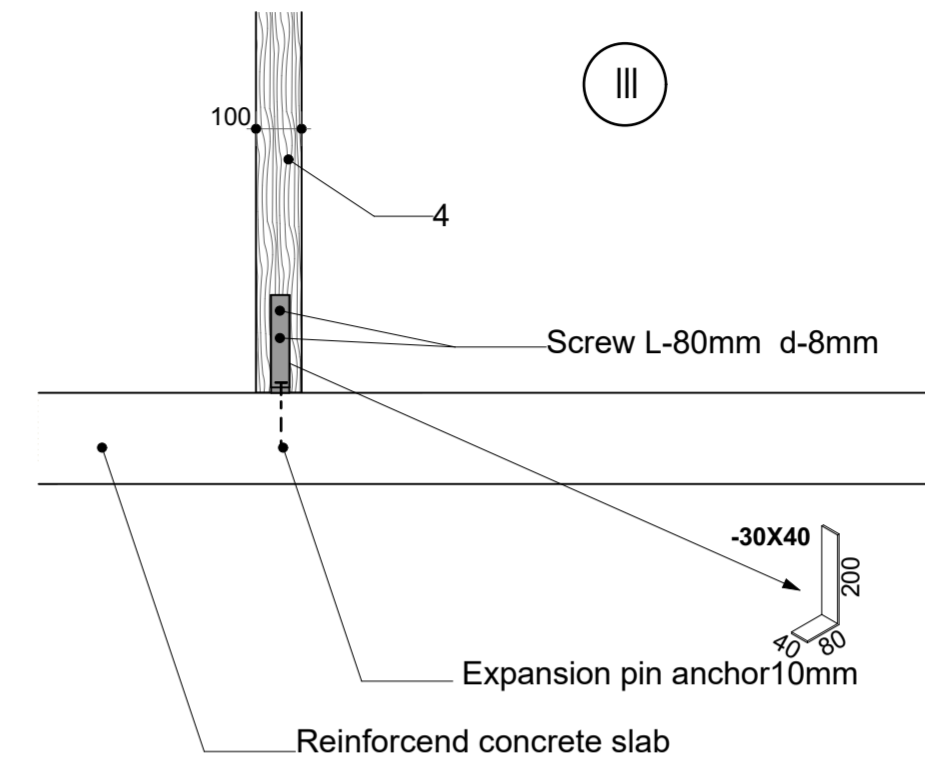
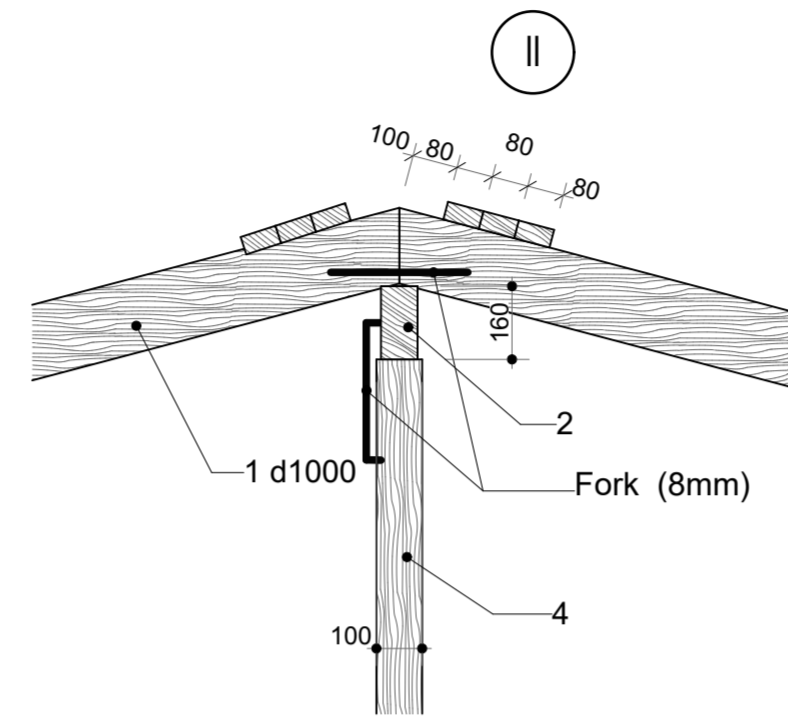
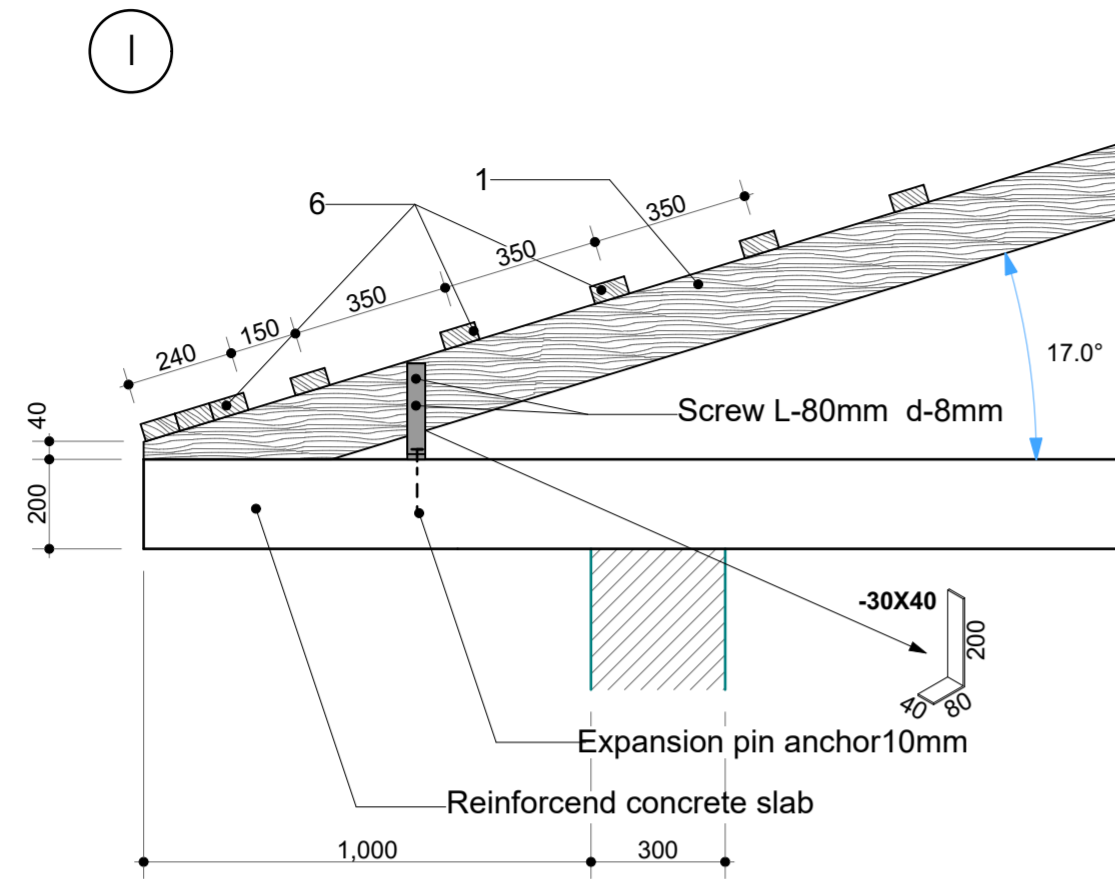
ბ. ჯანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava

ფორმატი
Format A - 2

ფურცელი
Page 25

ფურცლები
Pages 27



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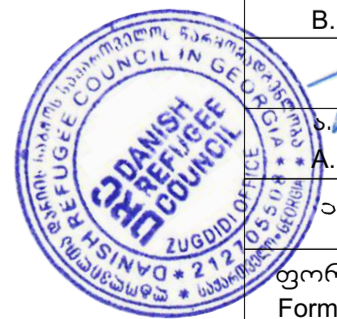
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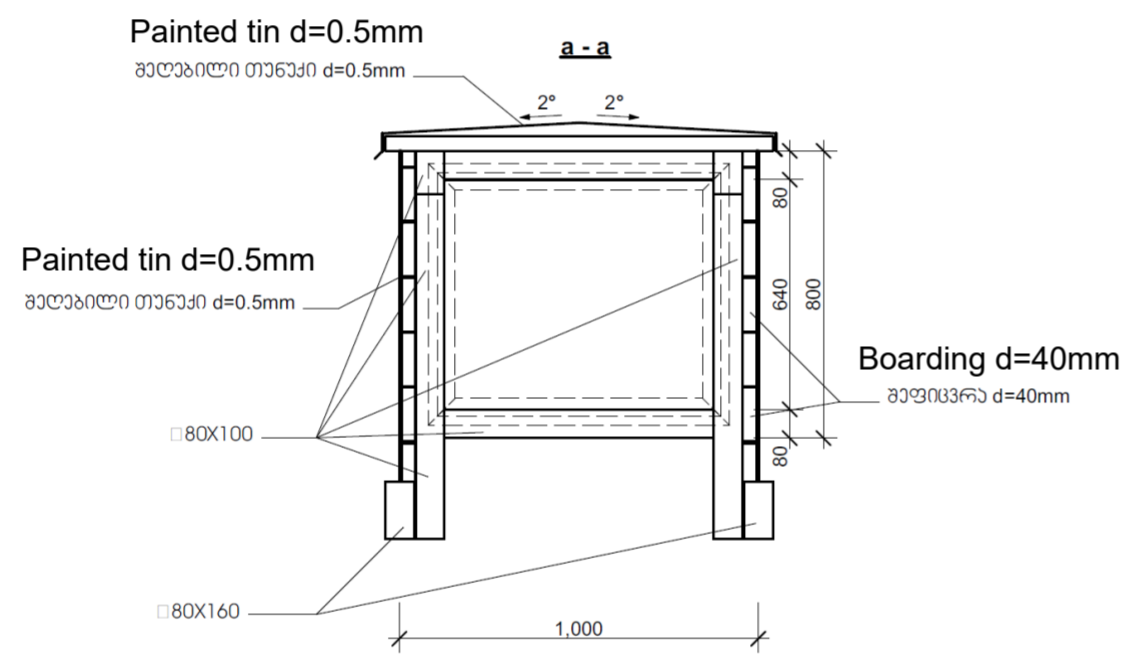
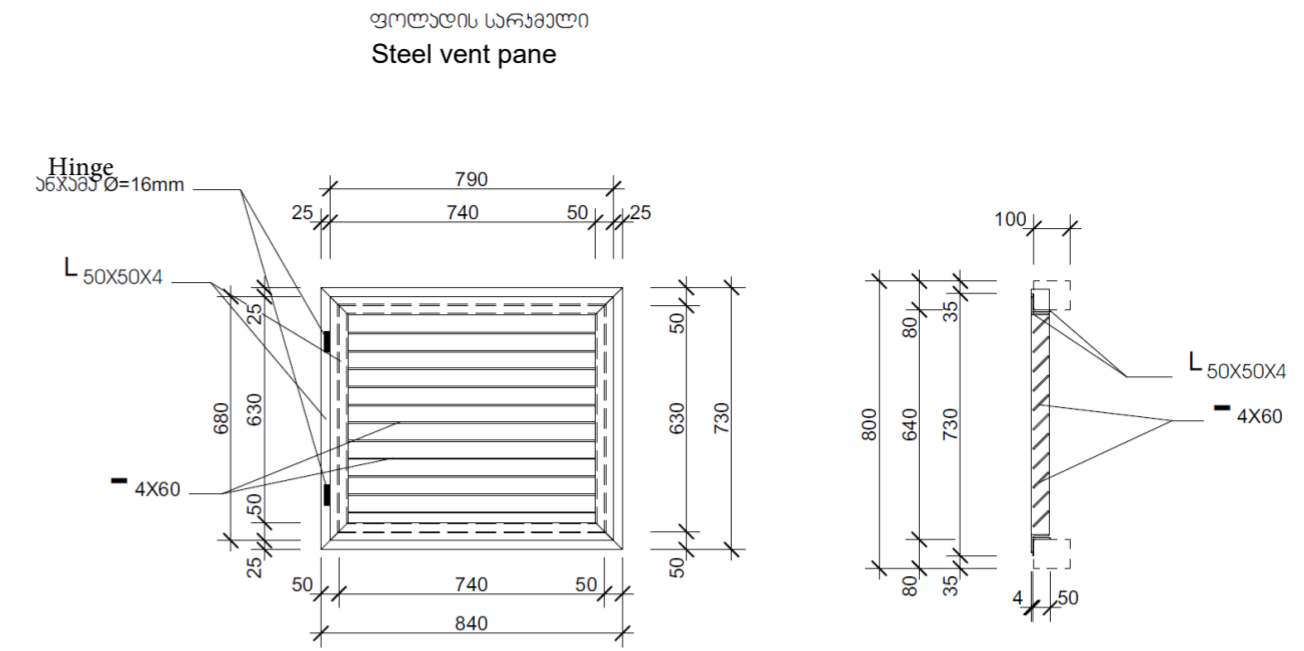
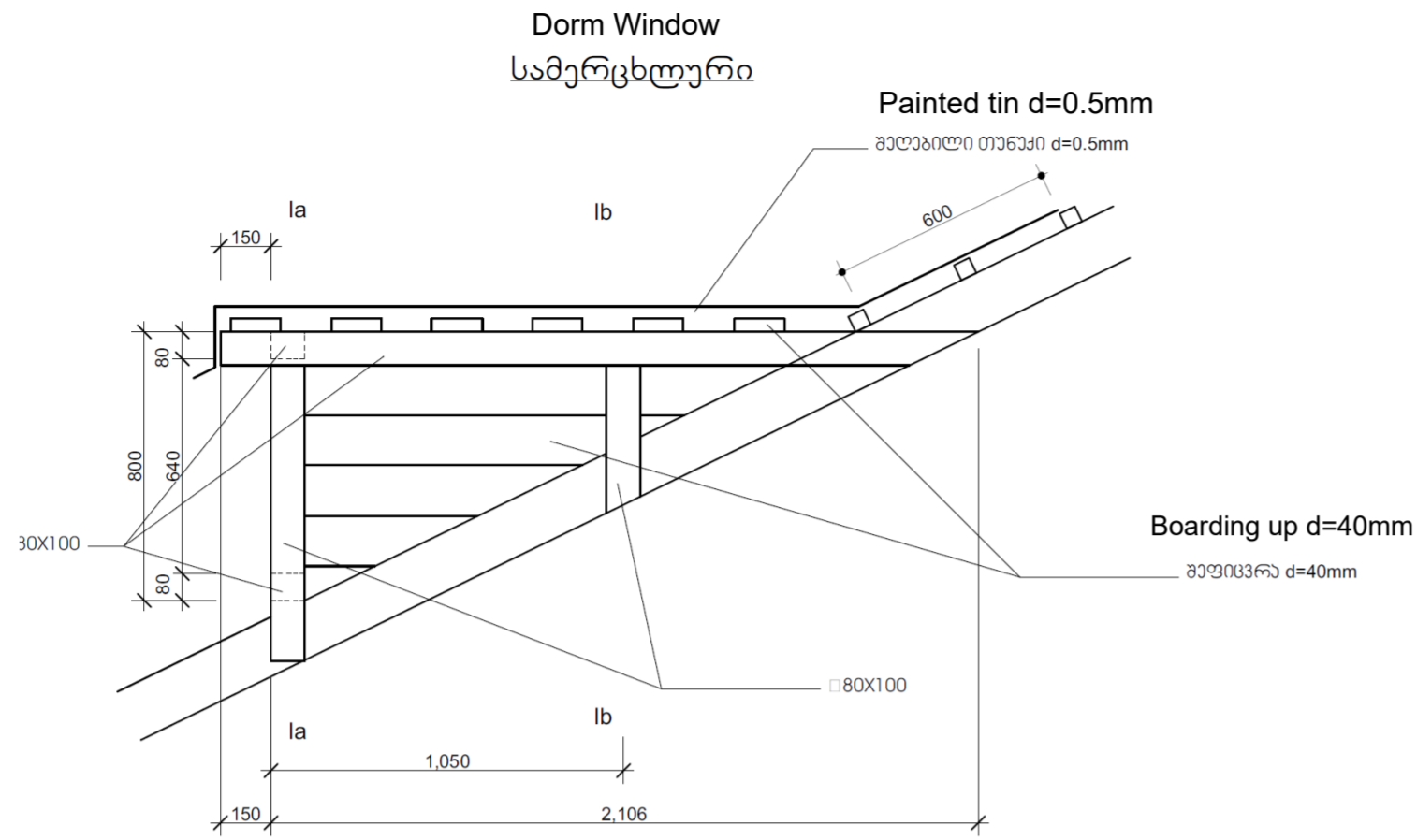
ბ. ჯანთარია
B. Qantaria

ა. გერგდავა
A. Gergedava

ფორმატი
Format A - 2

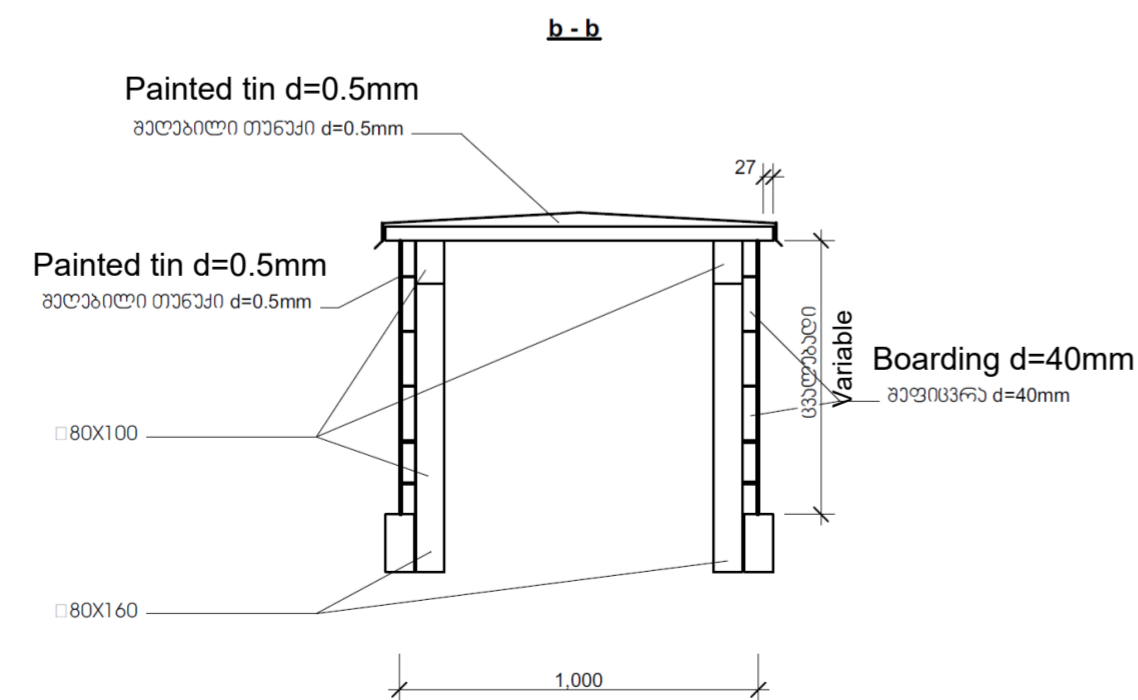
ფურცელი Page	ფურცლები Pages
26	27





ფოლადის საპირფარეო Steel specification

სეკციის სიგრძე Section length (m)	რაოდენობა Qty	საპირფარეო სიგრძე total length (m)	მონაკვთვები Weight (kg)	
L50X50X4	0.73	2	1.46	4.23
L50X50X4	0.84	2	1.68	4.87
L50X50X4	0.68	2	1.36	3.94
L50X50X4	0.79	2	1.58	4.58
60X4	0.69	11	7.59	14.27
				31.90



Project address:
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Stage:
Architectural project

Dorm Window

ბ. ქანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava

ფორმატი
Format A - 2

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Page 27

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