11.06.2020

ARCHITECTURAL DRAWINGS

GRETCHEN



Ведомость рабочих чертежей

Лист	Наименование	Примечание
01	Title	
02	Main Data	
03	Notes	
04	Plan on. ±0.000	
05	Atic Plan	
06	Roof plan	
07	Doors and windows	
08.1	1st floor	
08.2	2nd floor	
09	Sections 1-1, 2-2	
10	Section 5-5	
11	Elevation A-F	
12	Elevation 8-1	
13	Elevation 1-8	
14	Elevation F-A	
14	Detail 1	
15	Detail 2	

General information and instructions

1 Design based on customer specifications
2 The 0.000 elevation is the building's finished floor level.
3 No geotechnical investigations were carried out on the site
4 A strip monolithic foundation was designed
5 Material for horizontal waterproofing at customer's discretion
6 All external edges of the foundation touching the ground shall be covered with a Planters 8 mm membrane with the projections inside.
7 The steel structures shall be installed in accordance with the requirements of CP B.2.6-163:2010
8 Insulate wooden elements that have contact with the masonry, concrete, metal with the pads of 2 layers of the waterproofing
9 The wooden elements should be treated with antiseptics.

Recommendations on excavation

1 Align the site to perform as follows: remove the local soil completely to the required
The excavation should be levelled as follows: Grout the local soil completely to the required level, backfill with non-sagging soils and compact using machines.
Backfill with non-sinking soils and subsequent consolidation with the help of machines and mechanisms
2 Reinforce the bottom of the foundation trench with non-sagging soils or Gravel

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Гретхен с террасой

Drawong name:
Main Data

Layout ID:
02

Brief explanatory note

I. General part

During the works, comply strictly with the SNiP Part 3 "Safety Regulations for major repairs and construction of residential and public buildings" and the instructions given in the drawings.
II. General Layout
The object under design is located in climatic region I. The main
climatic characteristics of the "Loads and Effects" construction area are as follows:
normative wind speed pressure - 40 Pa;
The normative snow load - 150 Pa;
normative depth of soil freezing - 0.8 m. The relief of the terrain is unknown.
Drainage of rain and melt
melt water is carried out openly by creating slopes. The area adjacent to the projected facility is landscaped.

III. Architectural, planning and design solutions
The projected building - a one-story, polygonal shape is the main building on the site
For the conventional mark of 0.000 level adopted as a pure floor.
All repair and construction works to perform strictly in accordance with the requirements of SP 12-135-2003 "Safety of Work in Construction.
The building is designed with laminated walls, consisting of: fixed formwork of 50 mm foam polystyrene on 2 sides, concrete, plaster.
Covering the building - Soft tile, OSB, plaster.
Foundations of the building designed on a natural base, the geology of the site is not developed.
Windows - metal-plastic custom-made,
Doors - GOST 30674-99 "PVC windows and doors. General technical conditions".
Finishing of the premises to take in accordance with sanitary and hygienic and fire
requirements.
Floors - to be decided on site.
The object in the process of operation does not have any harmful effects on the environment.

VII. Occupational Health and Safety
The design of the facility includes a set of measures related to
Occupational safety and health of the personnel:
- climatic conditions are taken into account;
- Windows opening for necessary aeration is foreseen;
- high quality light sources have been designed;
- workers are provided with protective clothing;
- there is a first-aid kit in the premises;
VIII. TEP
Building area - 110 m2
Total area - 90.8 m2
Building volume - 781 m3
Useful Area - 56 sq. m.

Building responsibility class = III
Durability Grade = II
Degree of fire resistance = III

IV. Fire prevention measures Fire safety is ensured by a complex of design
aimed at preventing fire as well as at creating conditions ensuring successful extinguishing and evacuation of people and assets:
- building fire resistance degree III;
- the area of the premises does not exceed the allowable limits between fire walls;
- exterior entrance doors open outward;
- the customer to purchase primary fire extinguishing equipment - fire extinguishers
- fire safety of the designed facility is ensured by choosing cables, devices and
other electrical equipment in a design suitable for the environment;
Exterior firefighting is provided by fire-fighting vehicles with water intake from the fire hydrant
Water consumption for exterior firefighting is 10 l/sec.
- The customer together with the relevant authorities to define the technical condition of the nearest fire hydrant.
fire hydrant. A sign indicating the hydrant location should be placed on the facade with
The customer shall provide a sign on the facade indicating the location of the hydrant with its lighting in the dark time of the day;

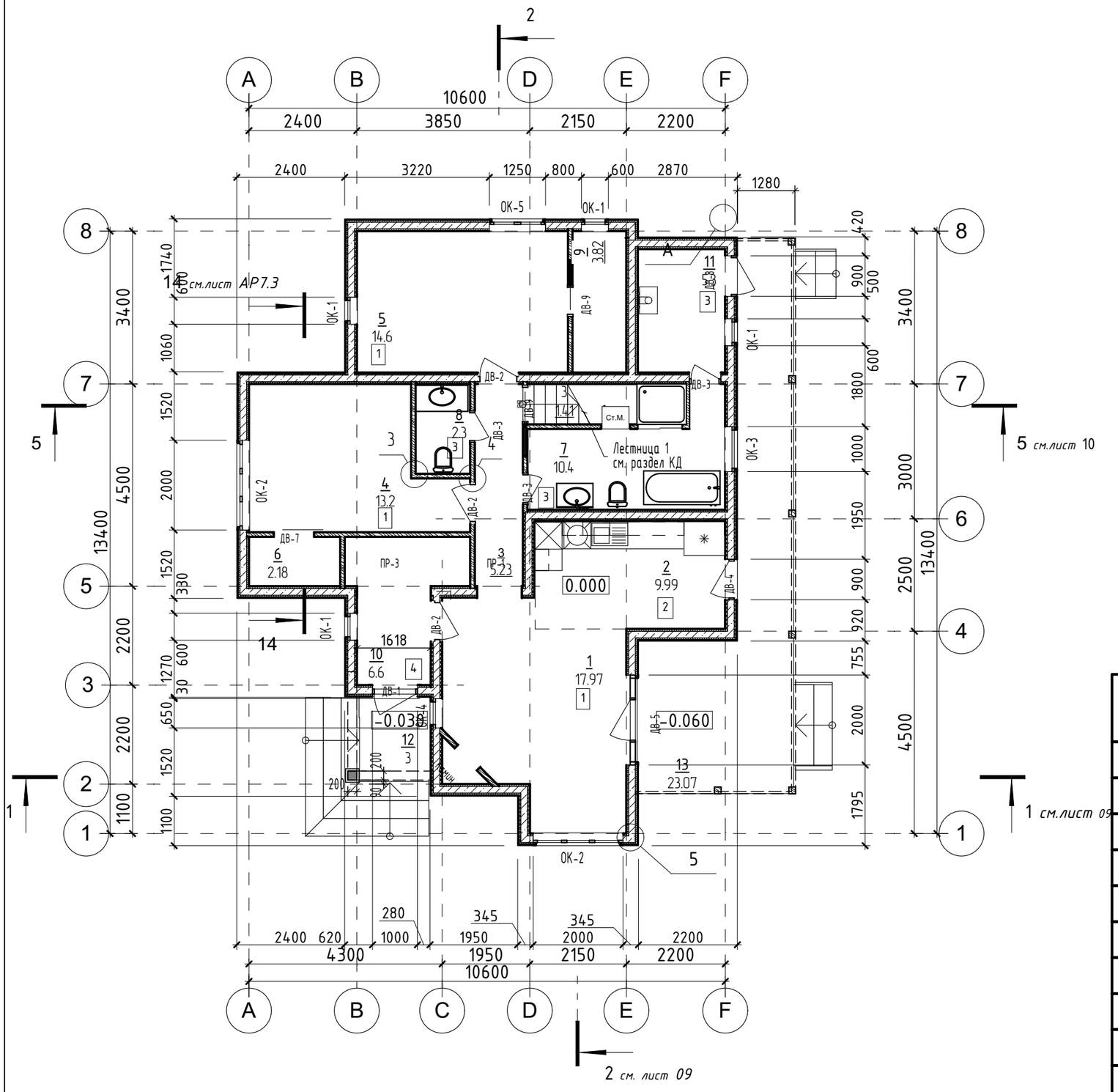
In accordance with the requirements of SP B.2.5-13-98 "Designing fire alarm systems in buildings
The fire alarm system must be provided, the project of which is performed by a specialized design organization having the appropriate license.
shall be performed by a specialized design organization having the appropriate license.
V. Energy saving measures The project takes into account organizational and technical measures
saving of fuel and energy resources:
- fluorescent lamps are used for lighting the premises, which will save
Power saving is ensured by using fluorescent lamps;
- A meter is installed to record power consumption;
- External lighting of the entrance is equipped with automatic control of external
automatic control of exterior lighting by means of a time relay is installed at the entrance;
- water meters and shut-off valves are installed at the water-flow meters and stop valves are provided for the account of the water consumption;
- Window blocks and exterior doors are triple-glazed with R0≥1,2 m^2*K/W;
- Thermal performance of building envelopes (exterior walls, floors and
technical characteristics of the building envelopes (external walls, floors, ceilings and roofs) correspond to the values of resistance to heat of the building envelopes of civilian buildings.
buildings

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Гретхен с террасой

Drawong name:
Notes

Layout ID:
03



Условные обозначения

	– Washing basin
	– Toilet bowl
	– Bathtub
	– Shower
Ст.М.	– Washing machine
ПМ	– Dish washer
	– Whater heater
1 / 14.56	– Number and room square
3	– Floor layers

1st floor room square

№	Наименование	Площадь
1	Great room	17.97
2	Kitchen	9.99
3	Corridor	5.23
3	Staircase	1.41
4	Bedroom	13.17
5	Bedroom	14.59
6	Walk-in closet	2.18
7	Bathroom	10.41
8	WC	2.35
9	Closet	3.82
10	Airlock foyer	6.57
11	Utility	5.25
		92.94 м²

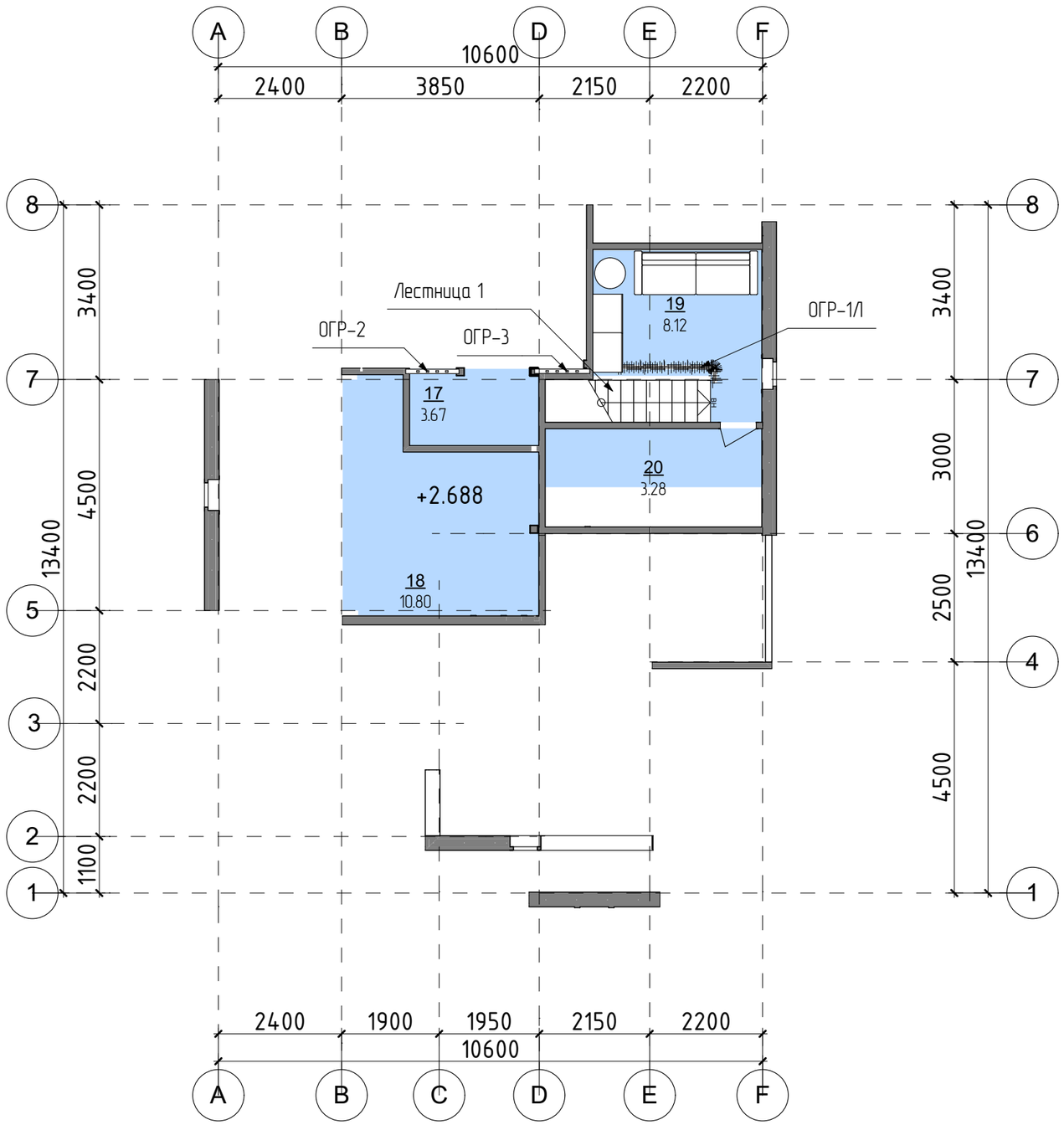
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Гретхен с террасой

Drawong name:
Plan on. ±0.000

Layout ID:
04

Attic plan



Attic rooms square

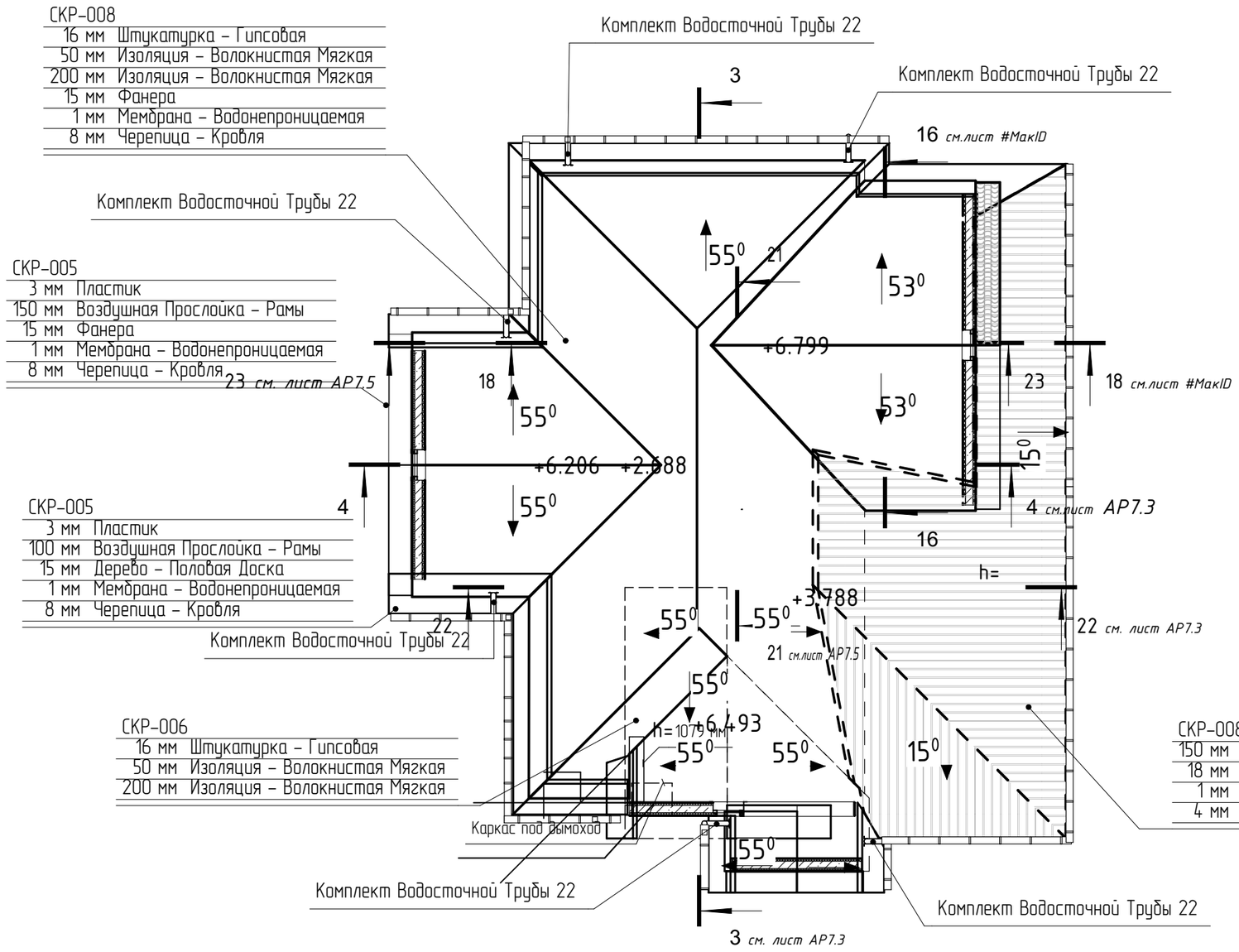
№	Наименование	Площадь
17	Loft	3.67
18	Loft	10.80
19	Study	8.12
20	Storage	3.28
		25.87 м²

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Гретхен с террасой

Drawong name:
Atic Plan

Layout ID:
05



Eaves 25^0

S roof =229 m^2

S Deck roof =45 m^2

Insulation 42 m^3

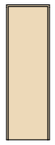
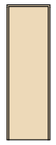
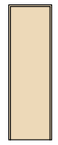
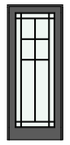
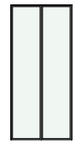
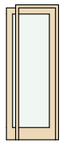
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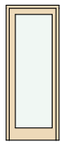
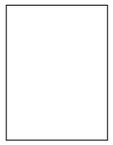
Гретхен с террасой

Drawong name:
Roof plan

Layout ID:
06

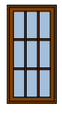
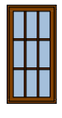
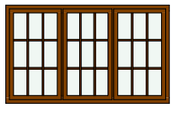
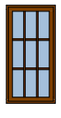
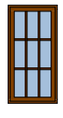
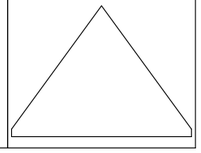
Door spec

Каталог Дверей													
Поз.	ДВ-0	ДВ-1	ДВ-1	ДВ-2	ДВ-2	ДВ-3	ДВ-3	ДВ-4	ДВ-5	ДВ-7	ДВ-8	ДВ-8	ДВ-9
Количество	1	1	1	1	2	1	2	1	1	1	1	1	1
Размер Ш x В	650×800	1 000×2 200	700×2 200	900×2 200	900×2 200	700×2 200	700×2 200	900×2 200	2 000×2 200	900×2 200	1 000×2 200	900×2 200	700×2 200
Ориентация		П	П	Л	П	П	Л	Л	Л	Л		П	Л
3D-фронтальный вид													

Каталог Дверей				
Поз.	ДВ-9	Камин	ПР-1	ПР-3
Количество	1	1	1	1
Размер Ш x В	863×2 200	700×600	1 000×2 200	1 650×2 200
Ориентация	П			
3D-фронтальный вид				

Проем в тамбуре

Window spec

Каталог Окон									
Полный ID Элемента	ОК-1	ОК-1	ОК-2	ОК-3	ОК-4	ОК-5	ОК-7	ОК-8	ОП-1
Количество	2	3	2	1	1	1	1	1	1
Размер Ш x В	600×1 200	600×1 200	2 000×1 200	1 000×800	650×800	1 200×1 250	600×1 200	600×1 200	2 200×1 600
Ориентация	Л	П		Л	Л		Л	П	
3D-фронтальный вид									

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Гретхен с террасой

Drawong name:
Doors and windows

Layout ID:
07

Furniture plan



1st floor room square

№	Наименование	Площадь
1	Great room	17.97
2	Kitchen	9.99
3	Corridor	5.23
3	Staircase	1.41
4	Bedroom	13.17
5	Bedroom	14.59
6	Walk-in closet	2.18
7	Bathroom	10.41
8	WC	2.35
9	Closet	3.82
10	Airlock foyer	6.57
11	Utility	5.25
		92.94 м²

Условные обозначения

	- Washing basin
	- Toilet bowl
	- Bathtub
	- Shower
Ст.М.	- Washing machine
ПМ	- Dish washer
	- Whater heater
1 / 14.56	- Number and room square
3	- Floor layers

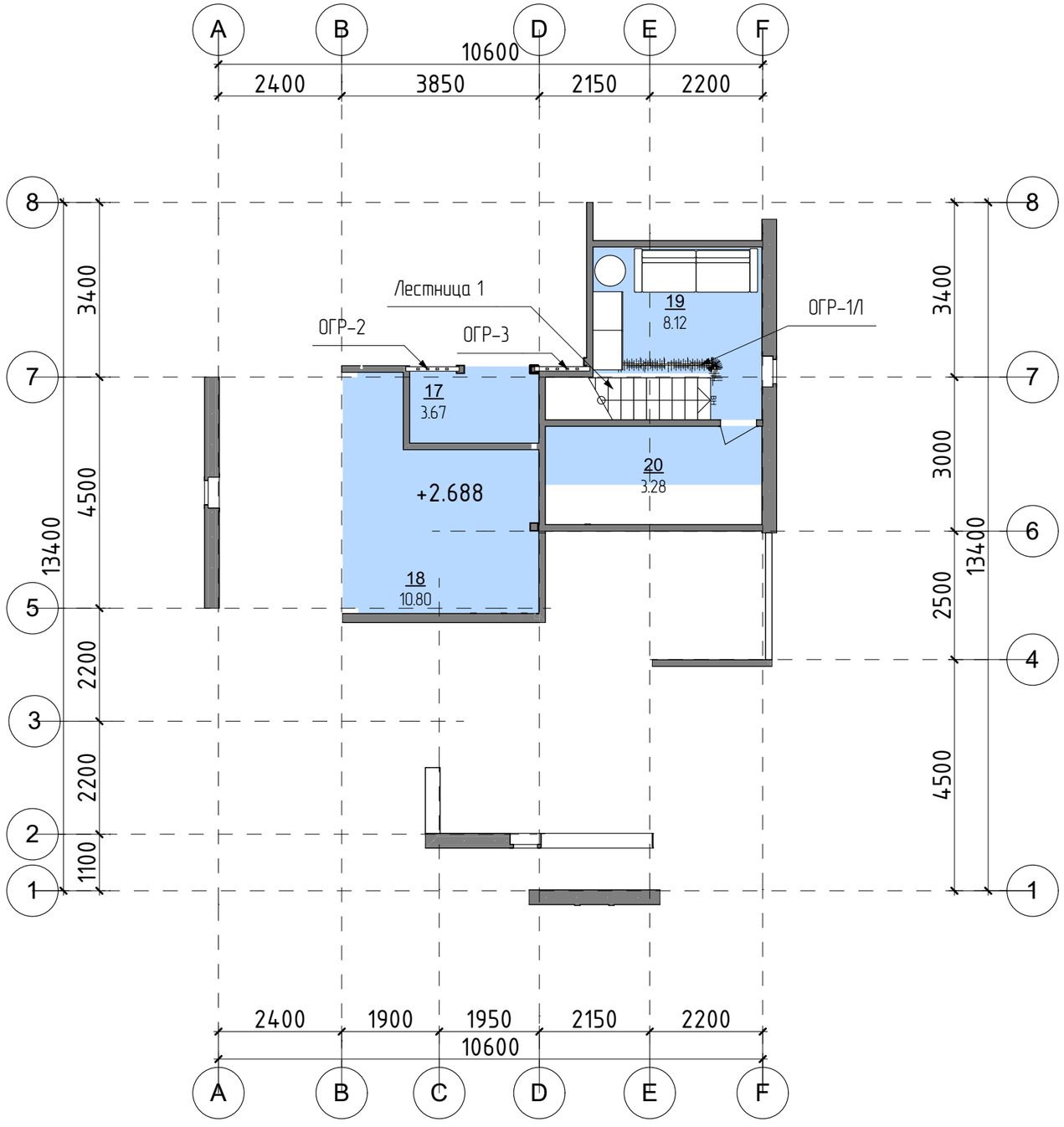
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Гретхен с террасой

Drawong name:
1st floor

Layout ID:
08.1

План расстановки мебели 2 этажа



Attic rooms square

№	Наименование	Площадь
17	Loft	3.67
18	Loft	10.80
19	Study	8.12
20	Storage	3.28
		25.87 м²

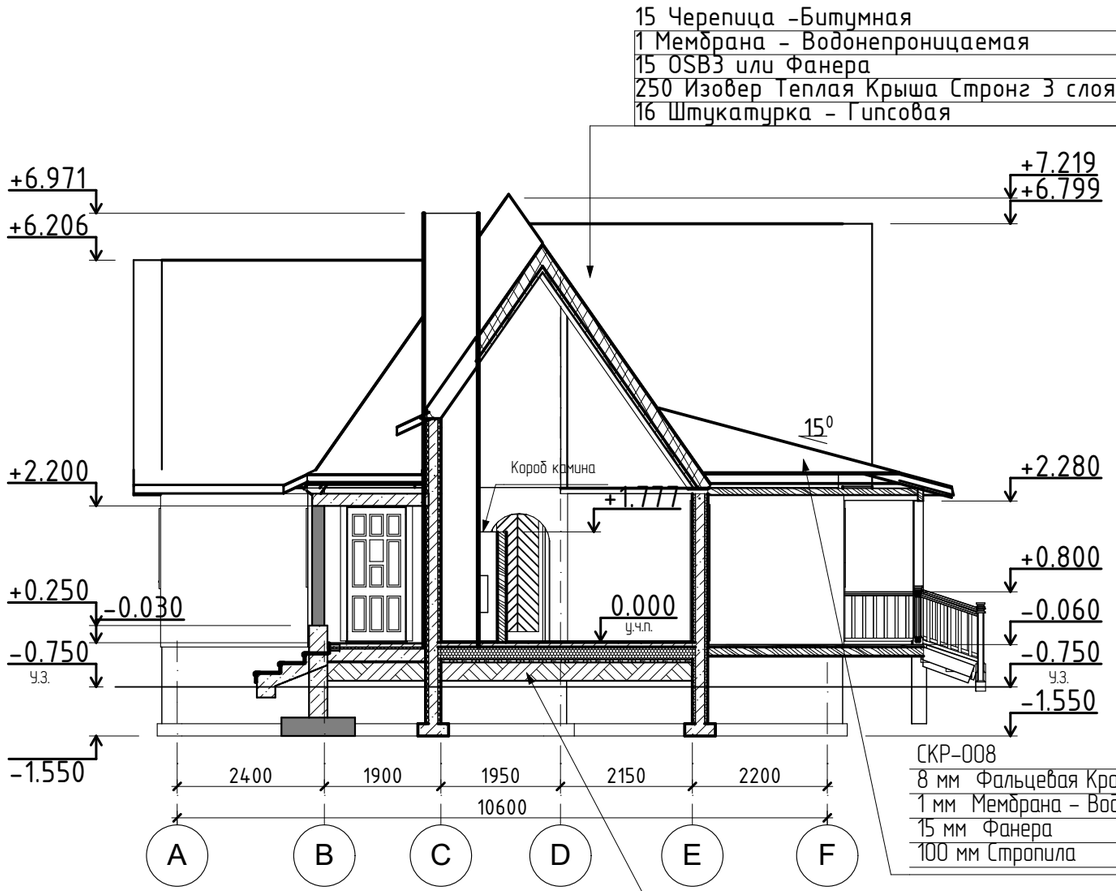
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Гретхен с террасой

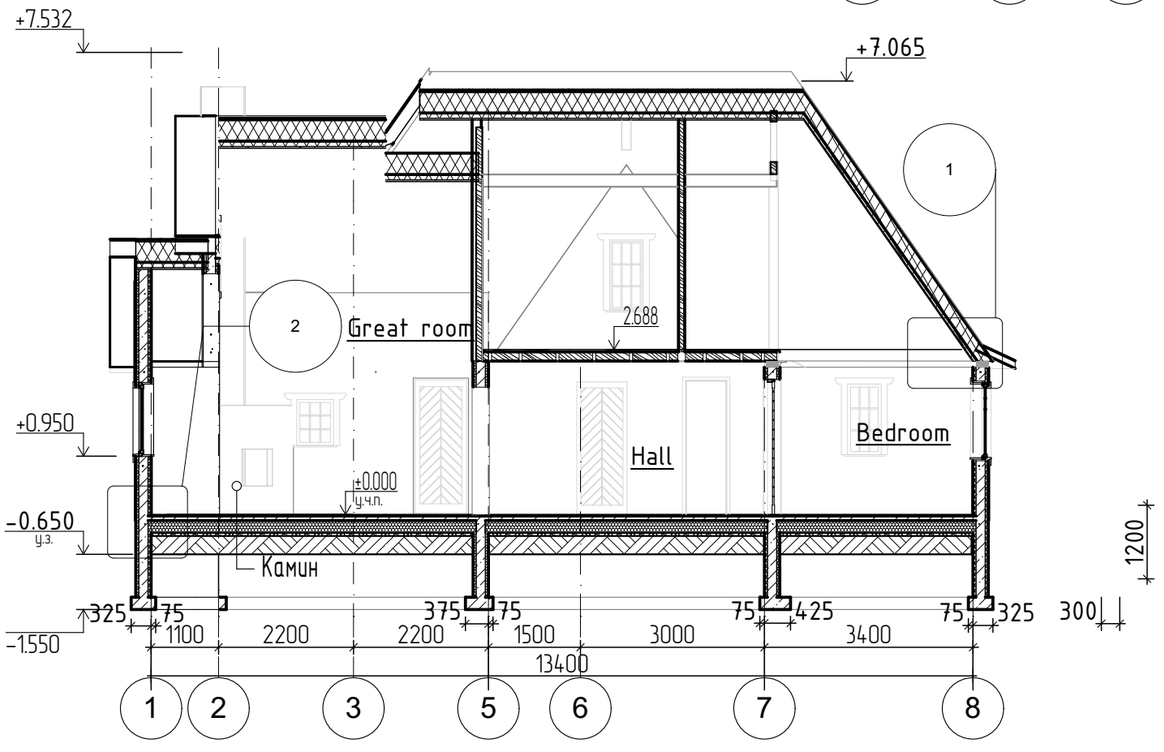
Drawong name:
2nd floor

Layout ID:
08.2

1-1



Section 2-2



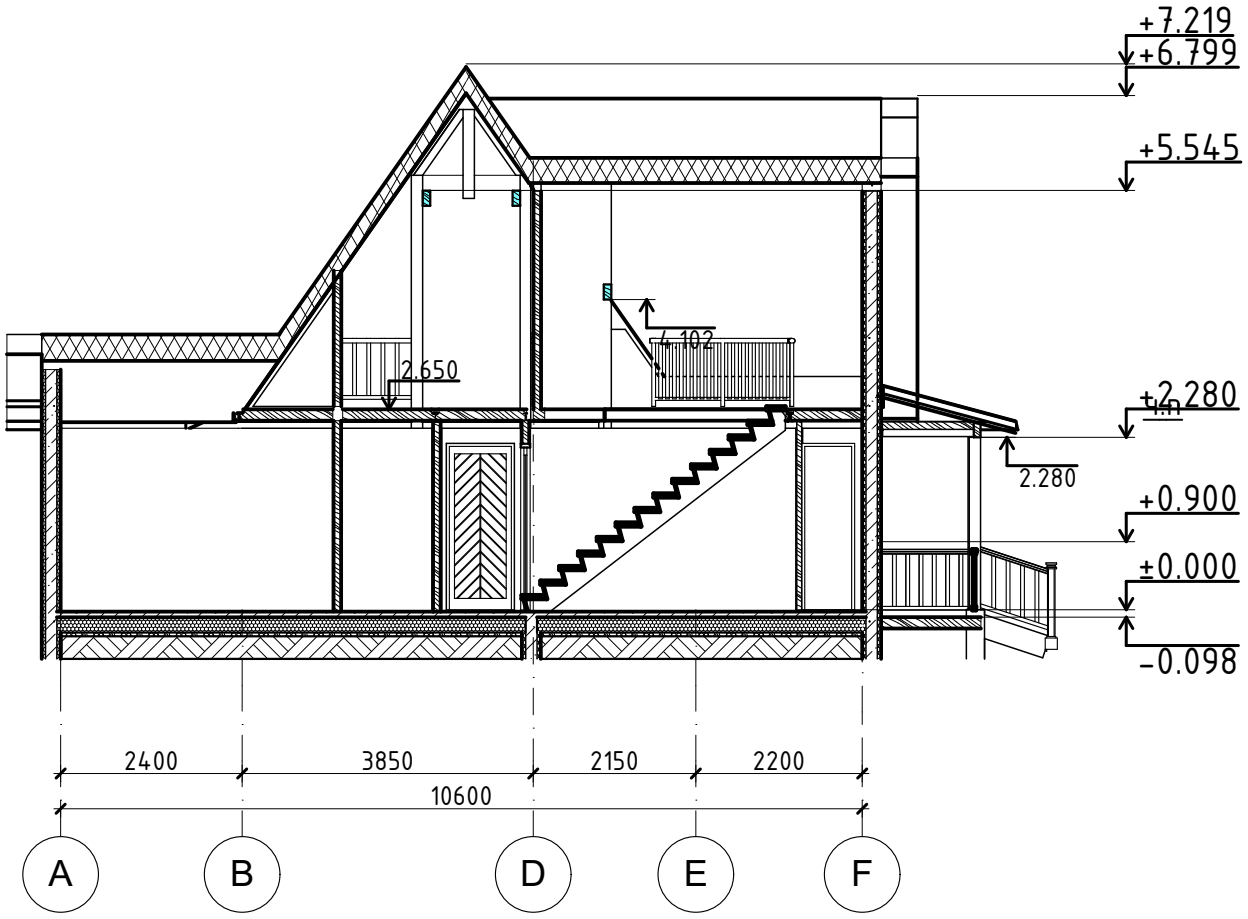
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Гретхен с террасой

Drawong name:
Sections 1-1, 2-2

Layout ID:
09

Section 5-5



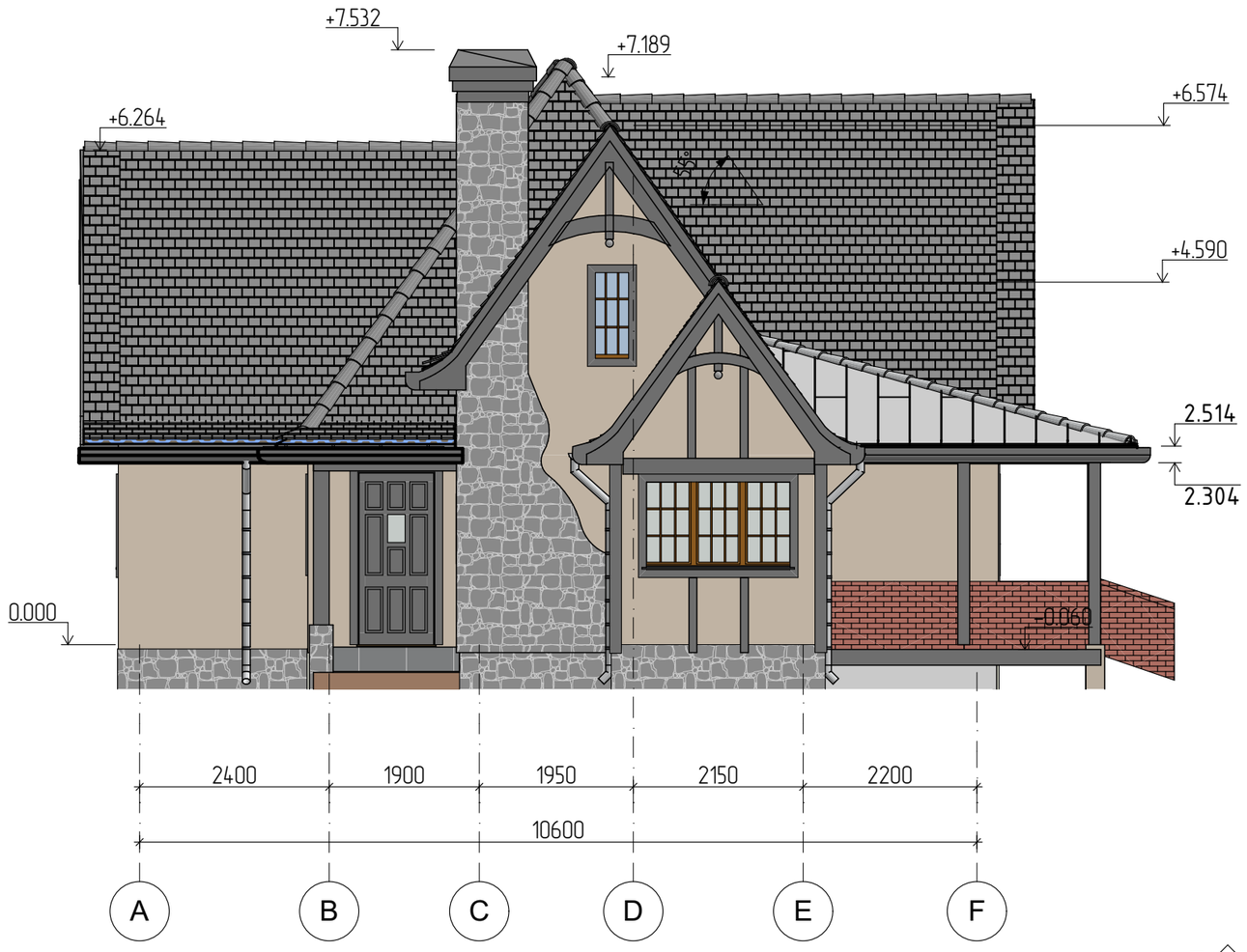
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Гретхен с террасой

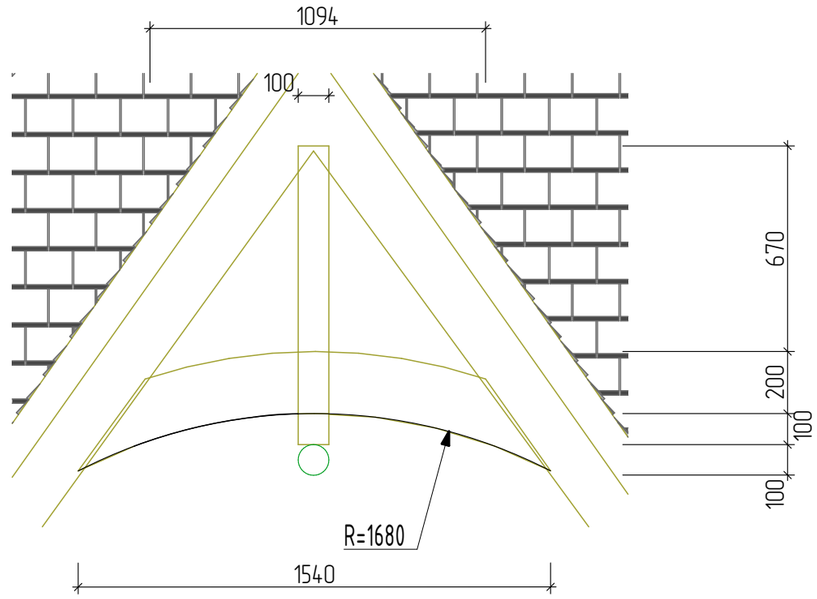
Drawong name:
Section 5-5

Layout ID:
10

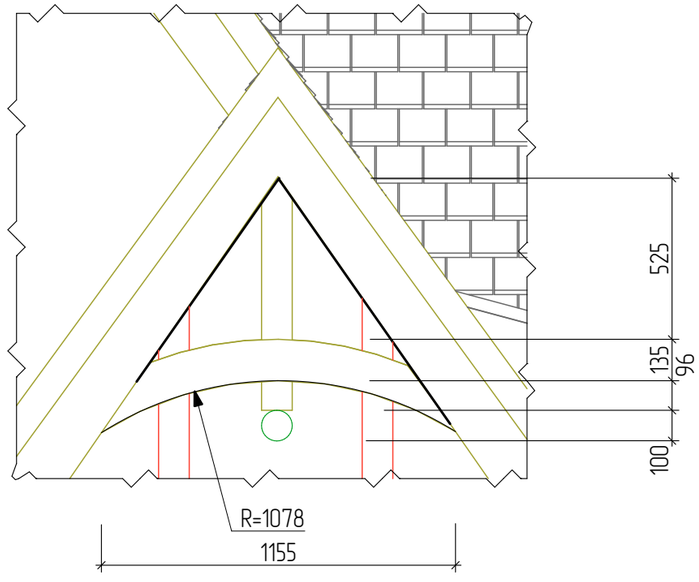
Elevation A-F



Decor 1



Decor 2



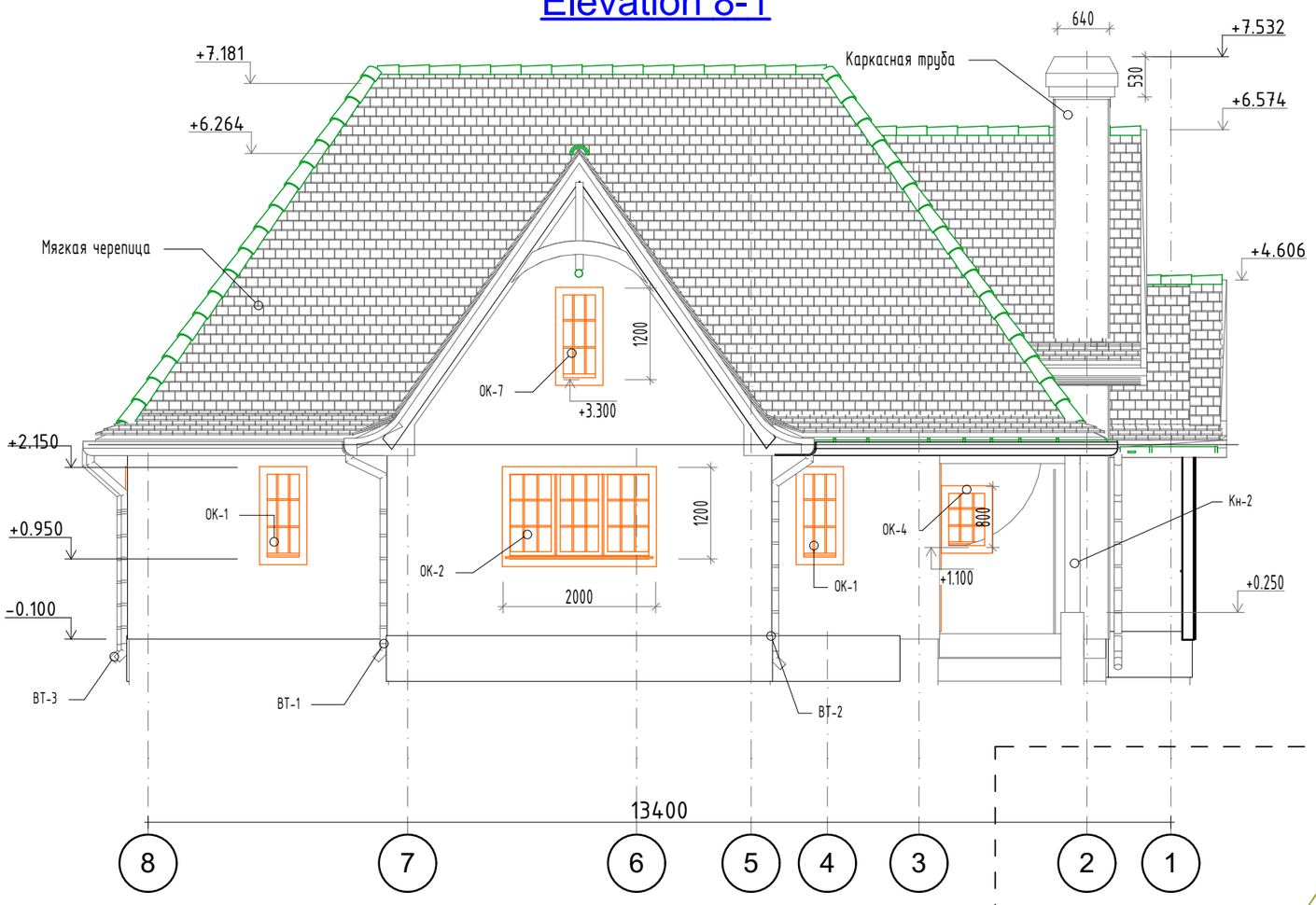
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Гретхен с террасой

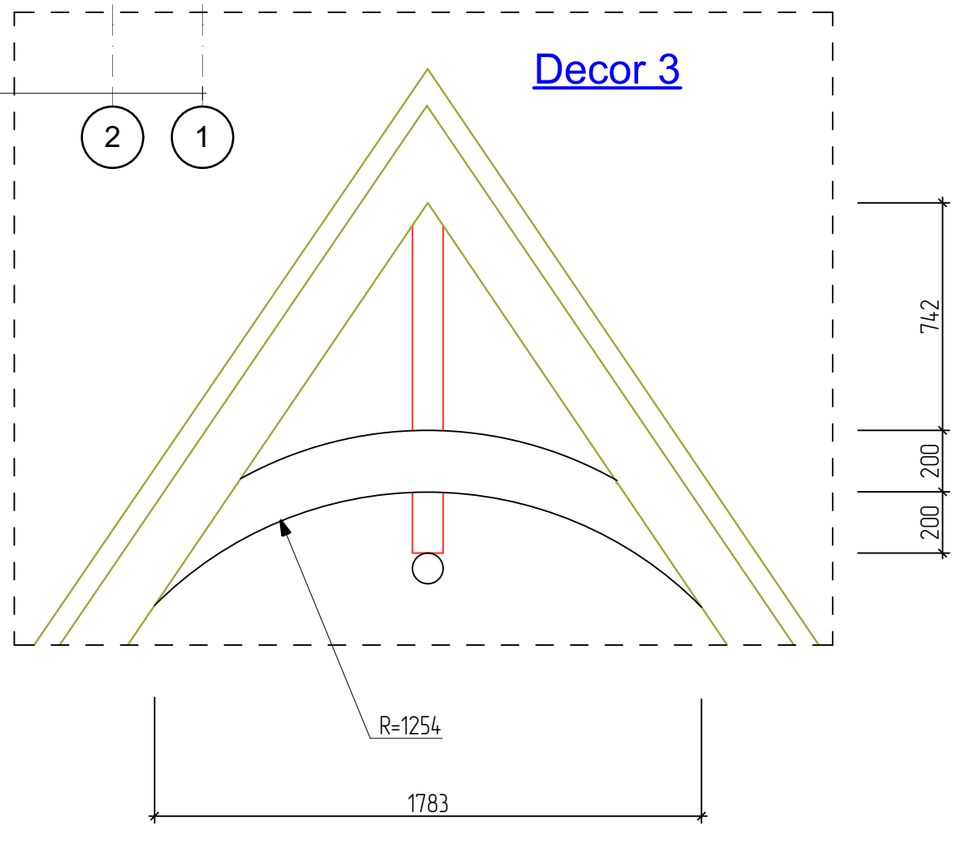
Drawong name:
Elevation A-F

Layout ID:
11

Elevation 8-1



Decor 3



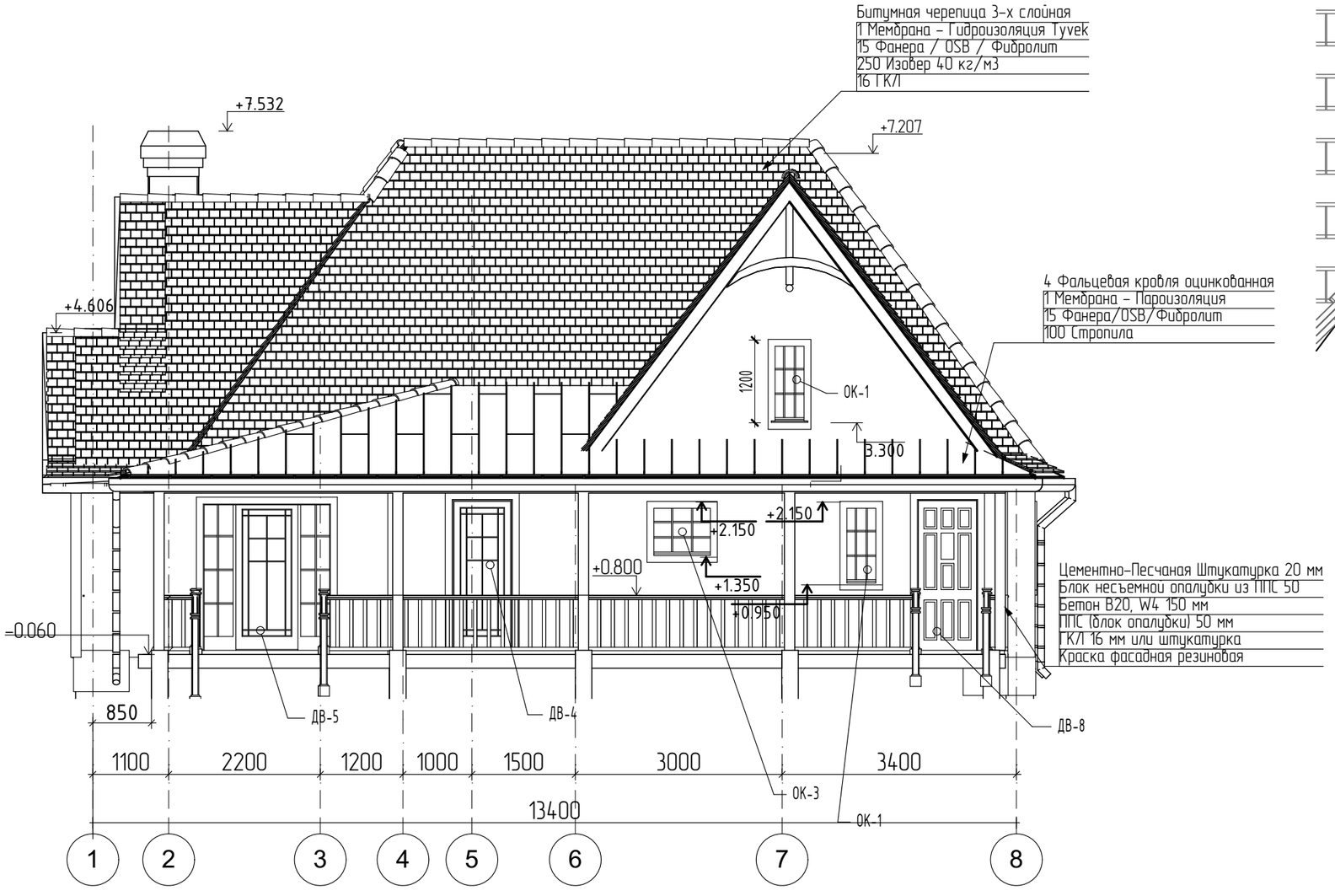
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Гретхен с террасой

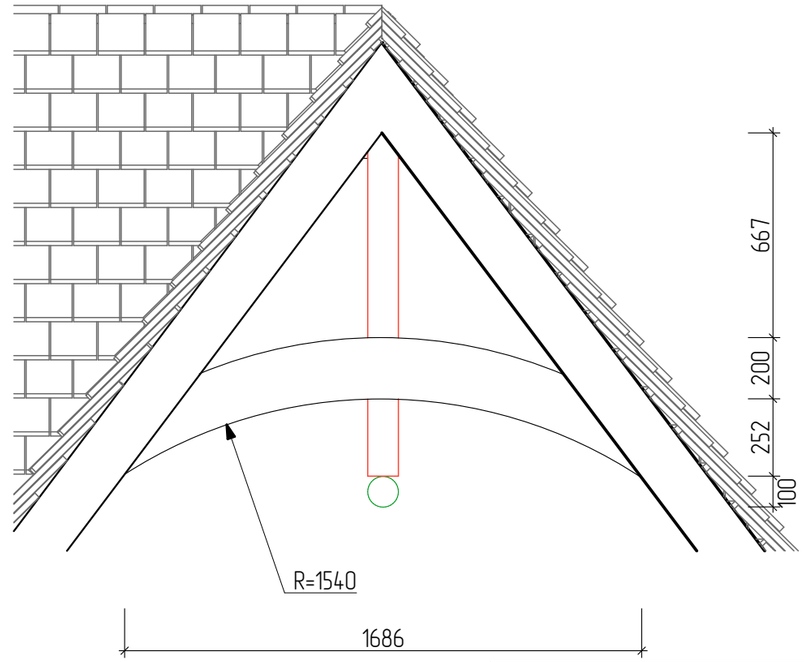
Drawong name:
Elevation 8-1

Layout ID:
12

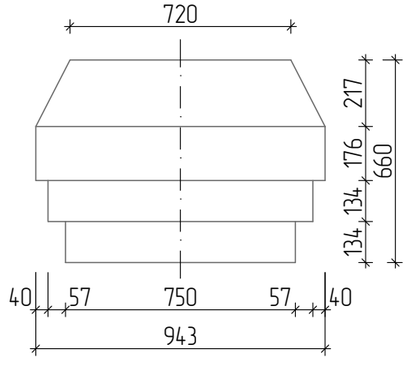
Elevation 1-8



Decor A4



Decor A5



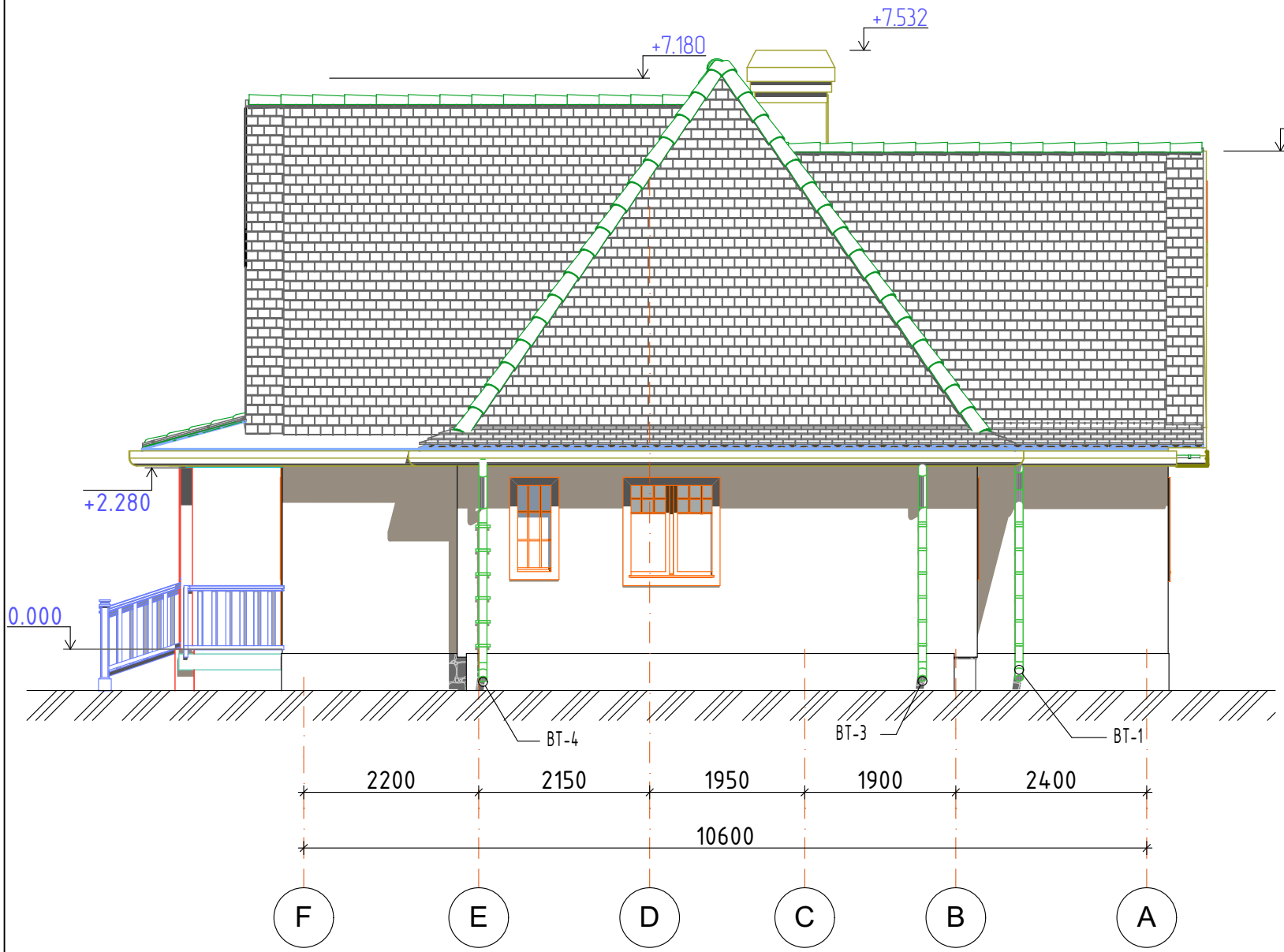
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Drawong name:
Elevation 1-8

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13

Elevation F-A



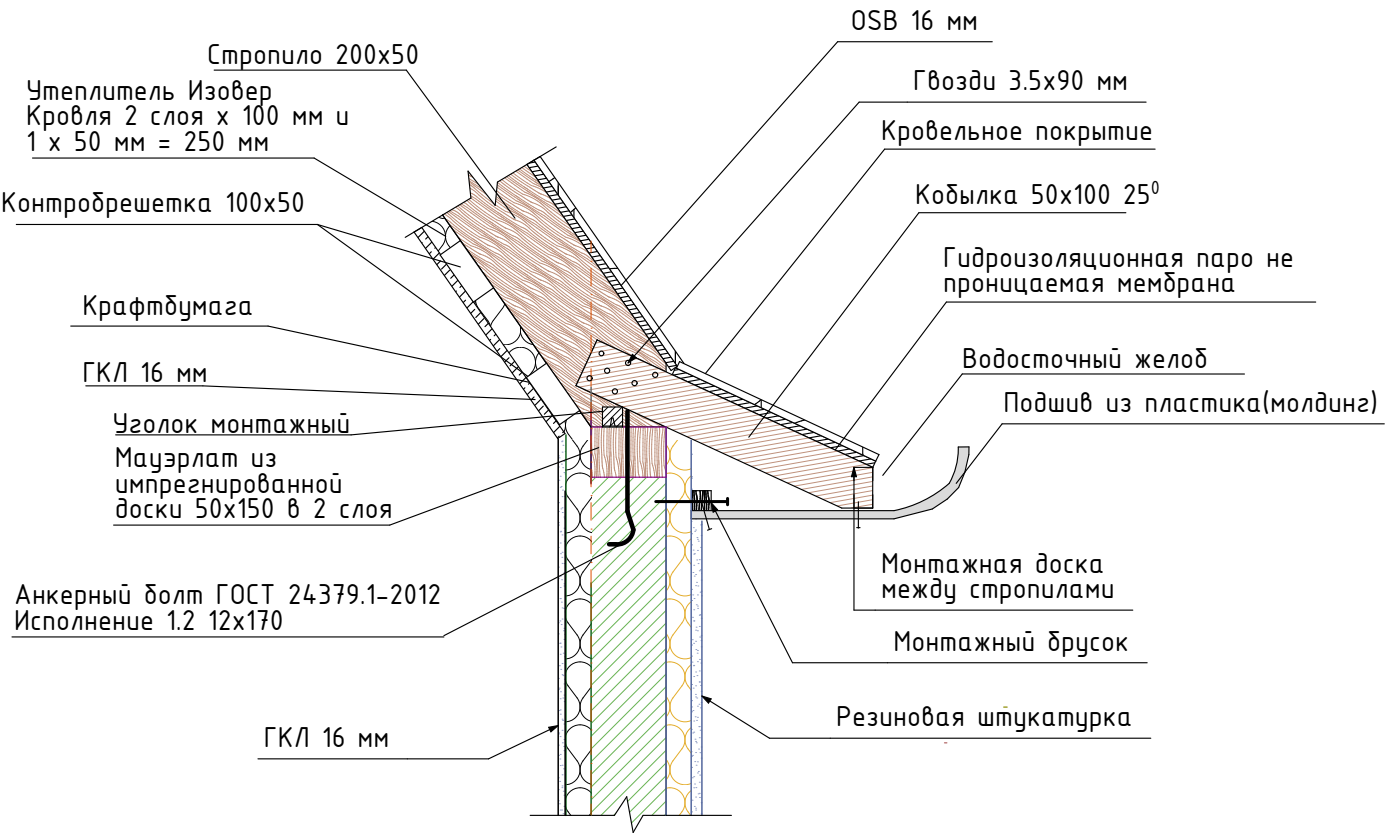
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Drawong name:
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14

Detail 1



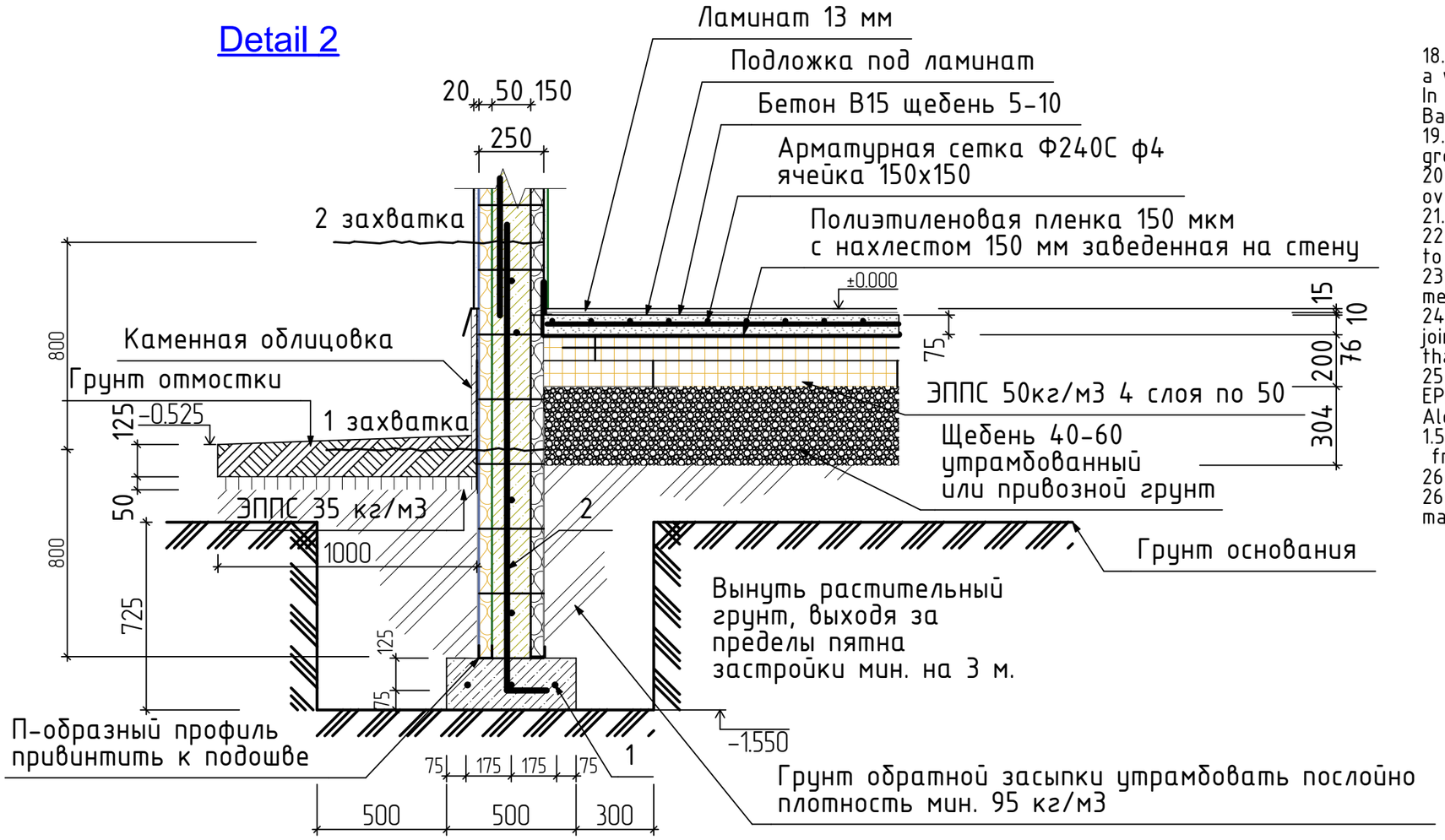
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Drawong name:
Detail 1

Layout ID:
14

Detail 2



Crushed stone or imported soil (the same as on the site) - 30 m3.

1. Remove vegetative soil about 30 cm from the borders of the building by 2 m.
2. Break up the axes.
3. Dig a trench. Compact it.
4. Install a formwork of planks.
5. Lay the longitudinal reinforcing bars.
6. Install the angle reinforcement at a spacing of 600 mm along the walls, at the corners and joints of the walls. Attach it to the tie rods of the formwork.
7. Concrete the footings. Carry out the maintenance operations. 8.
8. Mark the foundation and install 2 50x40 mm U-profiles along the marking and screw them to the concrete.
9. Install the fixed formwork in its designed position at the height of 6 blocks.
10 Nail the temporary boards horizontally from the inside (where possible): at the bottom at the bottom and to the last row.
11. 11. Nail the vertical boards to the boards at a spacing of 1.5-1.8 m.
12. 12. Nail spacers to the vertical boards with one end and fix the other end in the ground.
13. 13. Check that the walls are horizontal and vertical.
14. 14. Call the concrete pump and make the filling not more than 800-900 mm in height. If possible use a concrete line adapter for 75 mm.
15. 15. At the same time as pouring, a second worker is to vibrate the concrete. The vibrator should be moved by 10 cm.
16. At least 1 hour should pass between the grips.
17. On the outer side of the walls attach the waterproofing membrane Planters convex side inward.

18. After the concrete has gained strength, after about a week, backfill the soil with layer-by-layer compaction. In layers of not more than 20 cm.
Backfill evenly on both sides of the wall.
19. 19. Place the sheets of EPPS on the compacted ground with the joints shifted. 20.
20. 20. To lay the foil with the overlap of 15-20 cm, overlapping the walls by 30 cm.
21. Lay a welded mesh with a protective layer of 30 mm.
22. Attach the floor heating pipes to the grid according to the scheme.
23. Add fiber in the concrete or lay a second layer of mesh, and concrete the floor.
24. If the fiber has not been added, make the thermal joints to a depth of 20 mm at a distance of not more than 3.5 m.
25. 25. On the outer side of the walls lay the boards of EPPS 50-70 mm thick.
Along the walls at a distance of 1 m, on the corners of 1.5 m at a distance of 2 m
from the corner.
26. Lay the waterproofing membrane and fill
26. Lay a waterproofing membrane and fill the ground maintaining a 5% slope away from the house.

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Drawong name:
Detail 2

Layout ID:
15