



Project idea

The complex is located in the centre of Bratislava in the courtyard of Slovak Technical University among the buildings of the Faculty of Civil Engineering, Chemistry and technical. The courtyard is not currently used, except for some persons from the faculty, and only to park their vehicle. It is currently a very bleak place. It follows from the requirements that the university wants to revitalize the courtyard and offer students a campus that is indeed needed. The university management ideas for functions are spaces for research and startup, information centre, catering, cafe, leisure student spaces and underground parking solutions.

A few people from the faculty has been expressed a pious wish to preserve the old building on the campus. However, according to the results of the analyzes, they do not have much architectural value rather they negatively affect the environment, moreover, they are in deplorable technical condition and their reconstruction would be very demanding, expensive and with an uncertain result.

The subject of my design is the main building that protrudes above the terrain as two separate units, but in the underground, it is connected by a corridor with access to underground parking and heavy laboratories whose obsolete original building had to give way to design. A fundamental idea is to connect all faculties, which is achieved by a corridor at the level of the third floor and free space with landscaped greenery and living space in the courtyard of the complex.

Project description

The architectural intention was, to create a space that would encourage as much as possible to meet and connect the individual faculties. The toll to realise it is the above-ground corridor, bridge, track... which will connect all buildings. The corridor is located on the 3rd floor and passes through two newly designed buildings in two places. In the places where the corridor intersects building A, there is a canteen, study department offices and leisure student spaces. Other functions are connected to this base floor.

As it is a large distance connecting the individual buildings, the corridor is designed to contain 2 lanes for electric scooters (with speed limiter) and space for comfortable movement of 4 people next to each other.

As for the appearance of the buildings, they reflect the connection of the faculties of construction, technology and chemistry, when building A is a classic rational construction and technical act, while building B with an amphitheatre rises from the ground like a rippling chemical reaction.

We get to the area with 4 entrances or one car entrance through which we go underground into a two-storey parking building sunk into terrain. We can go back from the parking lot to the surface through a split (atrium in the middle of the parking lot) or by the underground entrance

to buildings. Where in the underground is located in addition to the connection between both above-ground parts of the heavy laboratory and the supply areas of cafes and canteen.

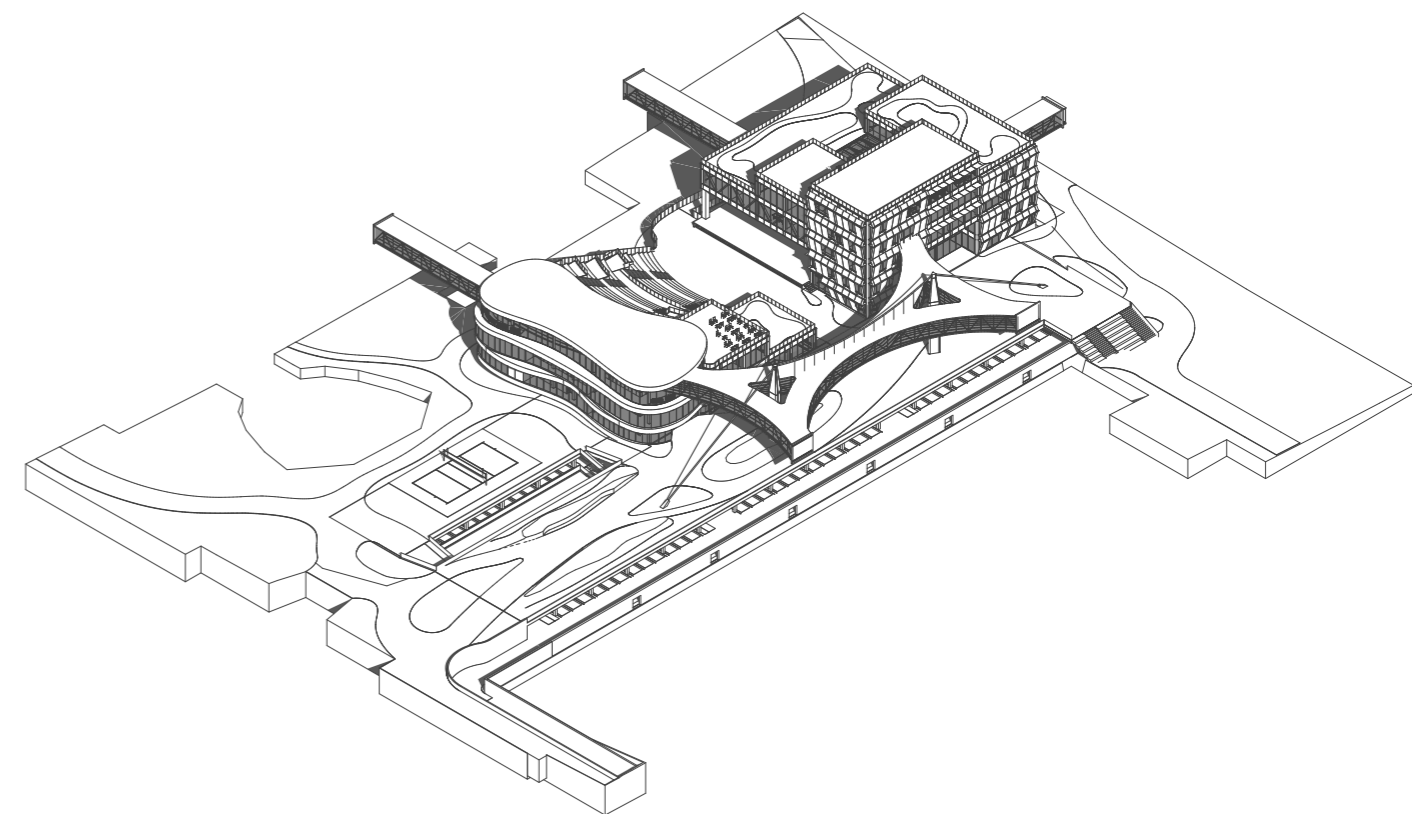
The first floor of building A consists of an entrance hall with a glazed atrium and space for artwork, a café, an information centre, a multifunctional room and exhibition spaces for student works. The second floor is reserved for offices and startup and innovation centres. The third floor contains the main corridor and a scooter parking connected to the canteen and student leisure areas. The 4th floor again contains spaces for startups and innovations, and on the last fifth floor, there is a media library. The second part of the building contains the assembly hall, lecture rooms and the main entrance with a staircase.

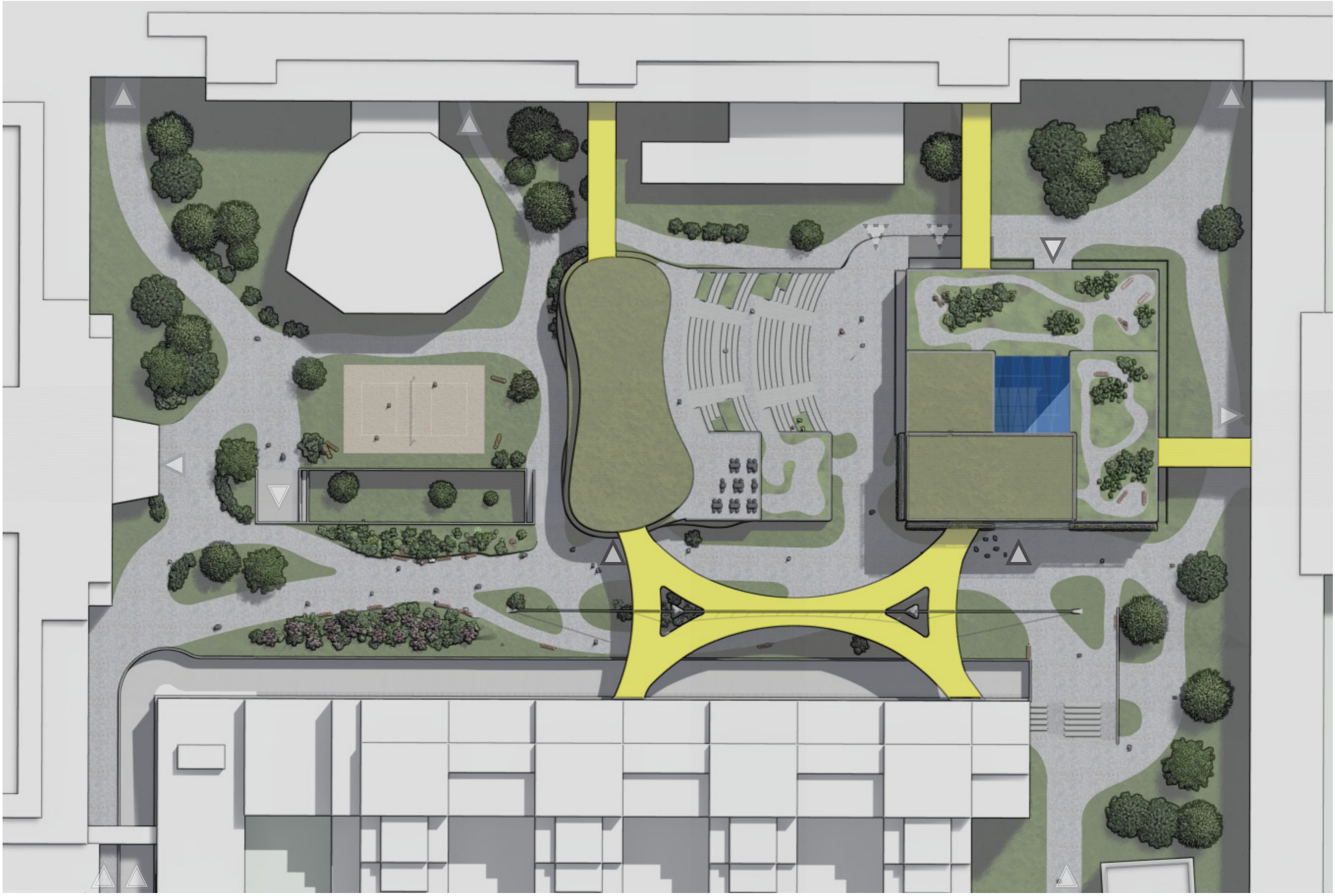
Construction and material solution

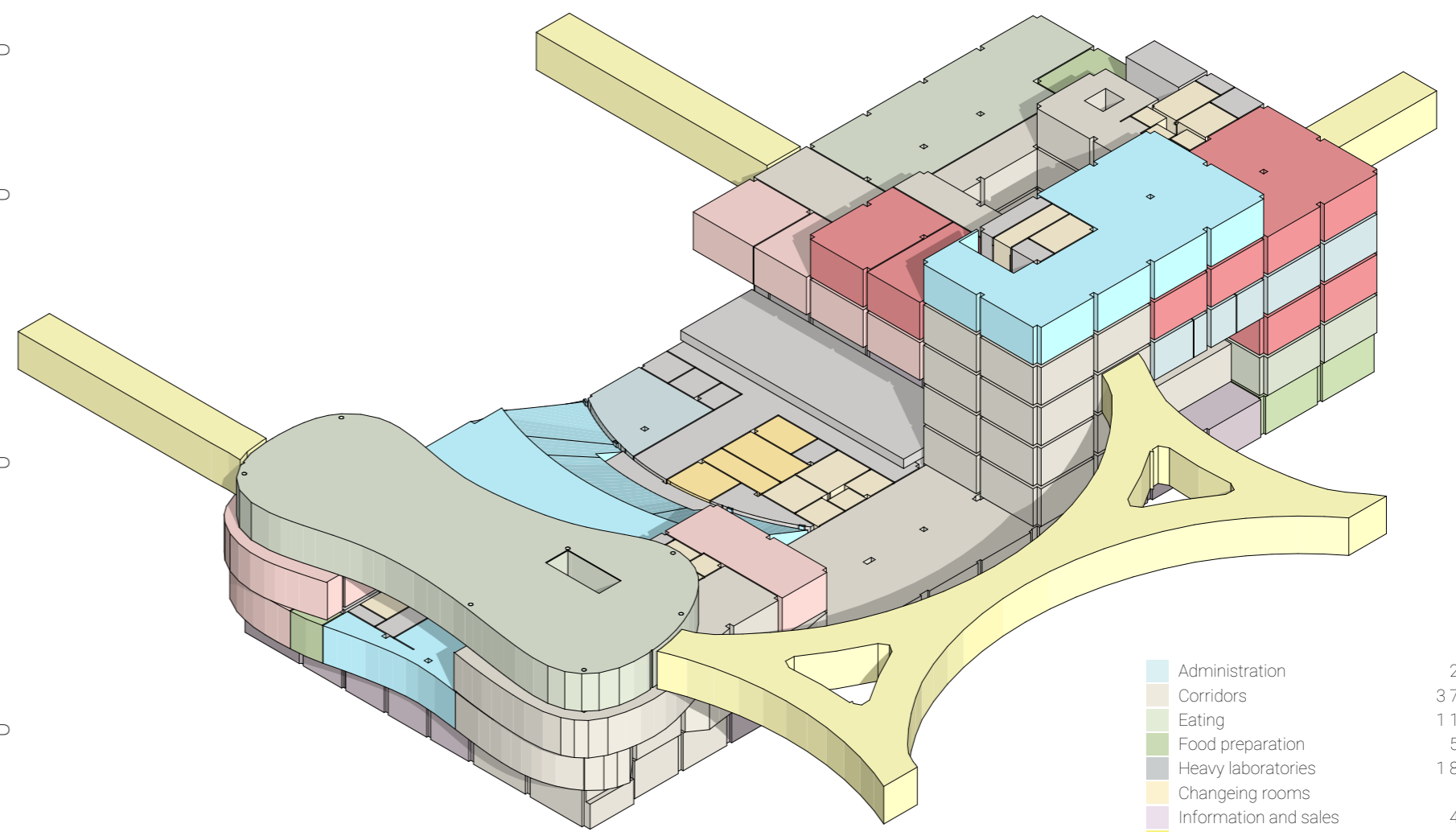
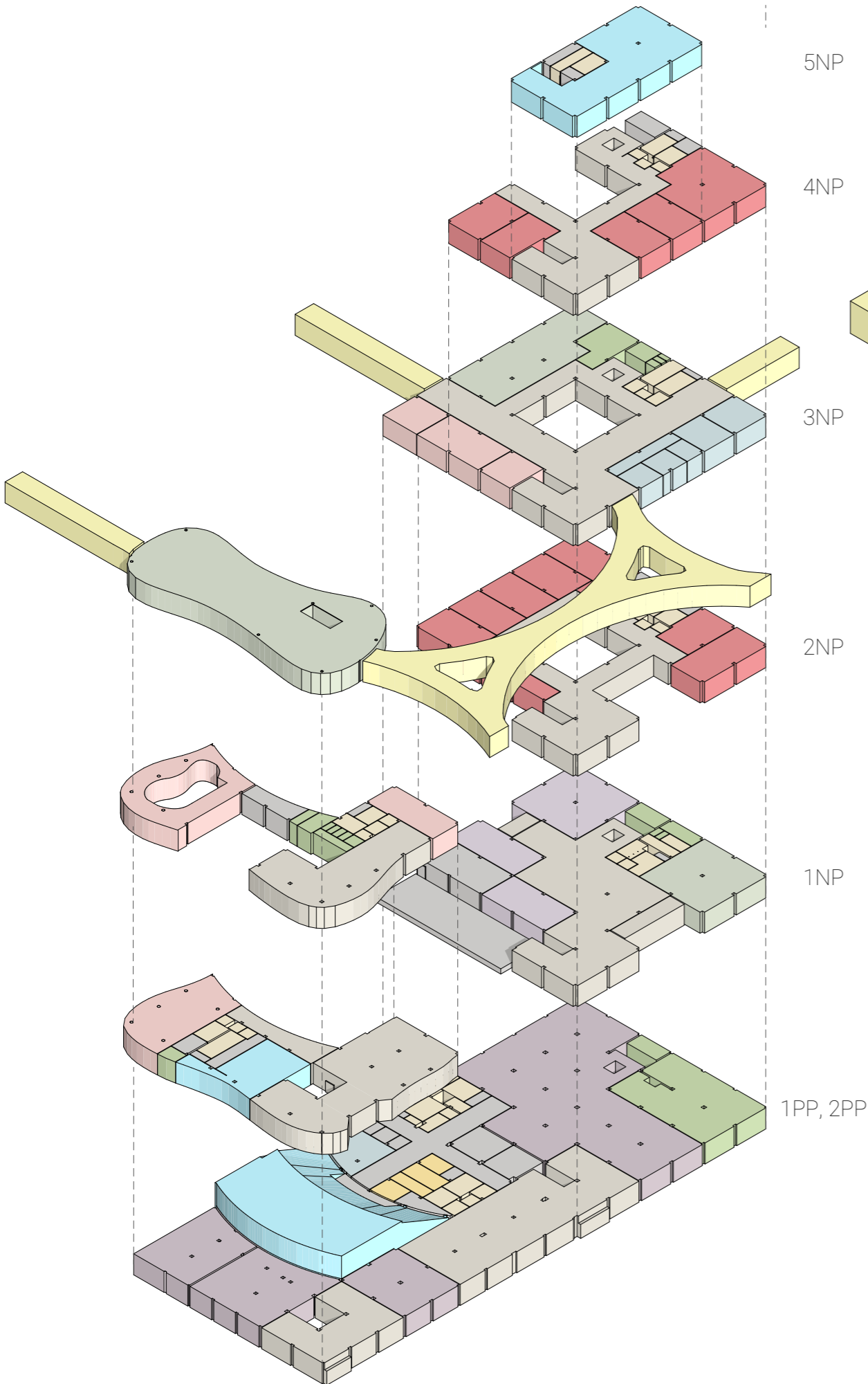
The main construction system is a reinforced concrete skeleton with a spacing of 7 m in building A, 6x7 m in building B and specific dimensions for the parking building. The skeleton is complemented by reinforcing walls and installation cores. The café on the 3rd floor of the amphitheatre has a steel prefabricated system for the highest possible subtlety. The outer corridors are formed by a lattice structure and part of it is raised by triangular pillars. The façade is solved by the Envilop system developed by ČVUT in Prague, it is a sustainable curtain wall. A wood-based system and sustainable sources with insulation from wood fibreboards meet thermal, acoustic and fire protection requirements.

Obsah

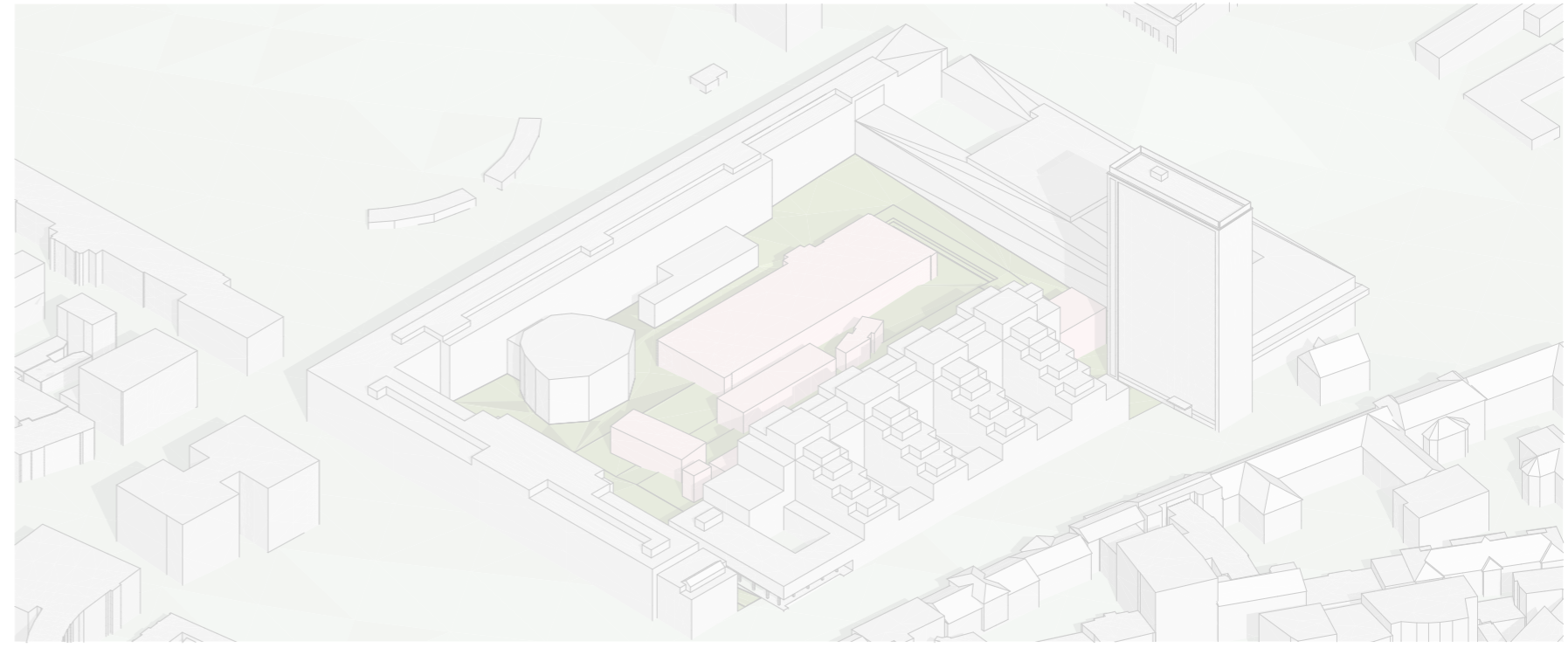
01	Content and report
02	Site plan
03	Functional use of the building and original state
04	Axonometry underground
05	Axonometry 1st floor
06	Axonometry 2nd floor
07	Axonometry 3rd floor
08	Axonometry 4th floor
09	Axonometry 5th floor
10	Axonometry
11	underground floor plan view
12	1st floor plan view
13	2nd floor plan view
14	3rd floor plan view
15	4th floor plan view
16	5th floor plan view
17	Elevations
18	Section
19	Visualization #1
20	Visualization #2
21	Visualization #3
22	Visualization #4
23	Visualization #5
24	Visualization #6
25	Visualization #7
26	Visualization #8

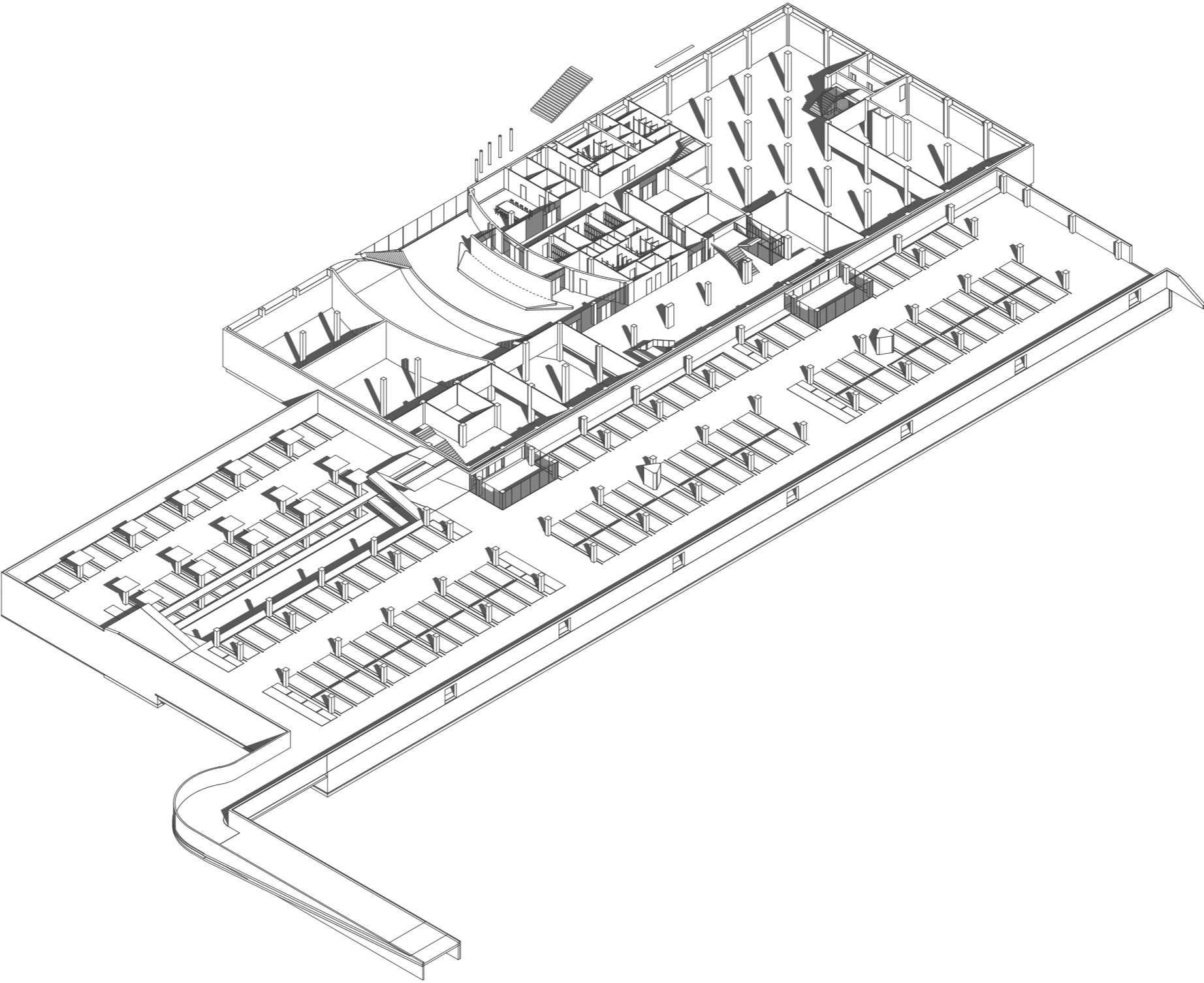


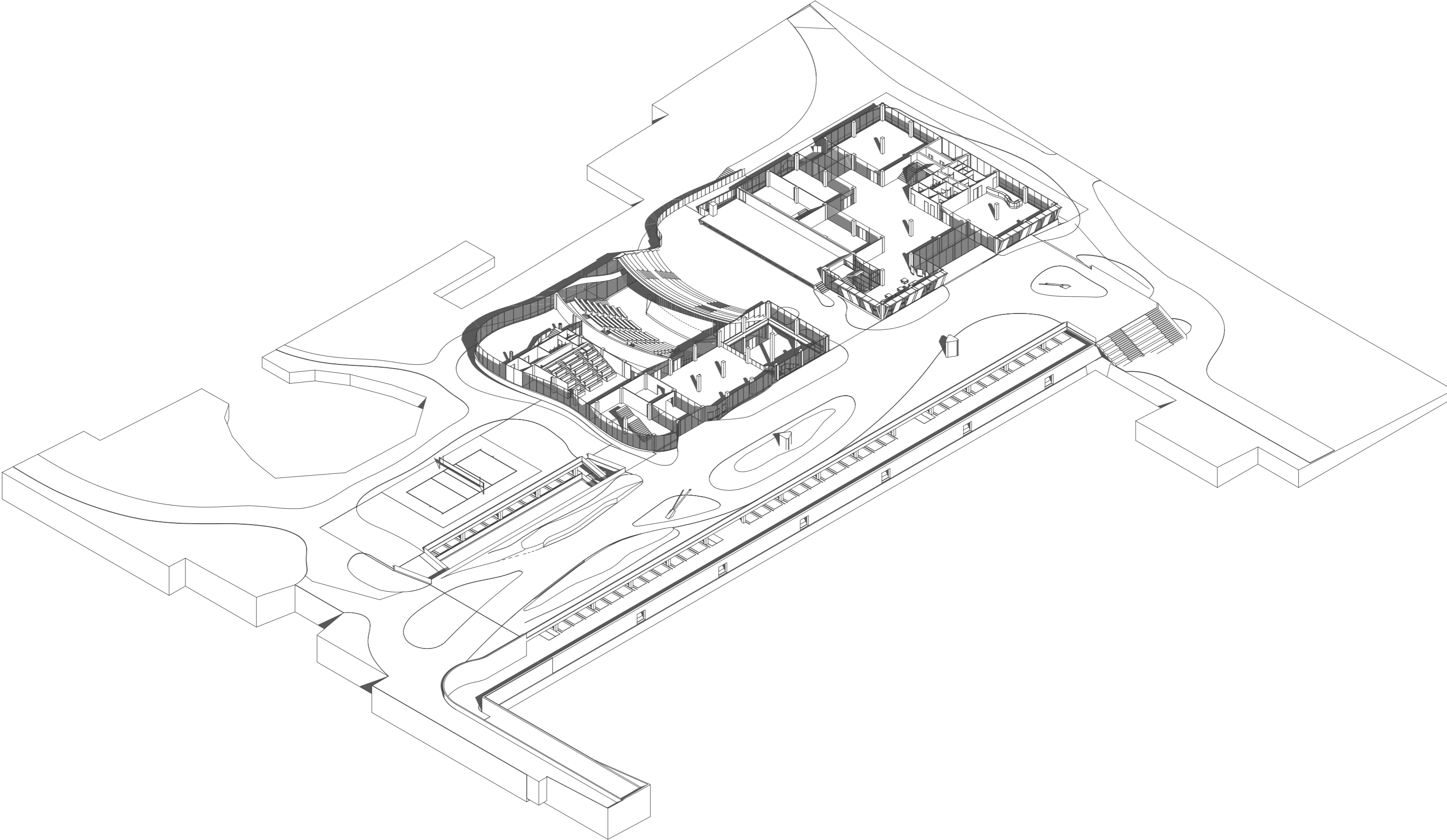


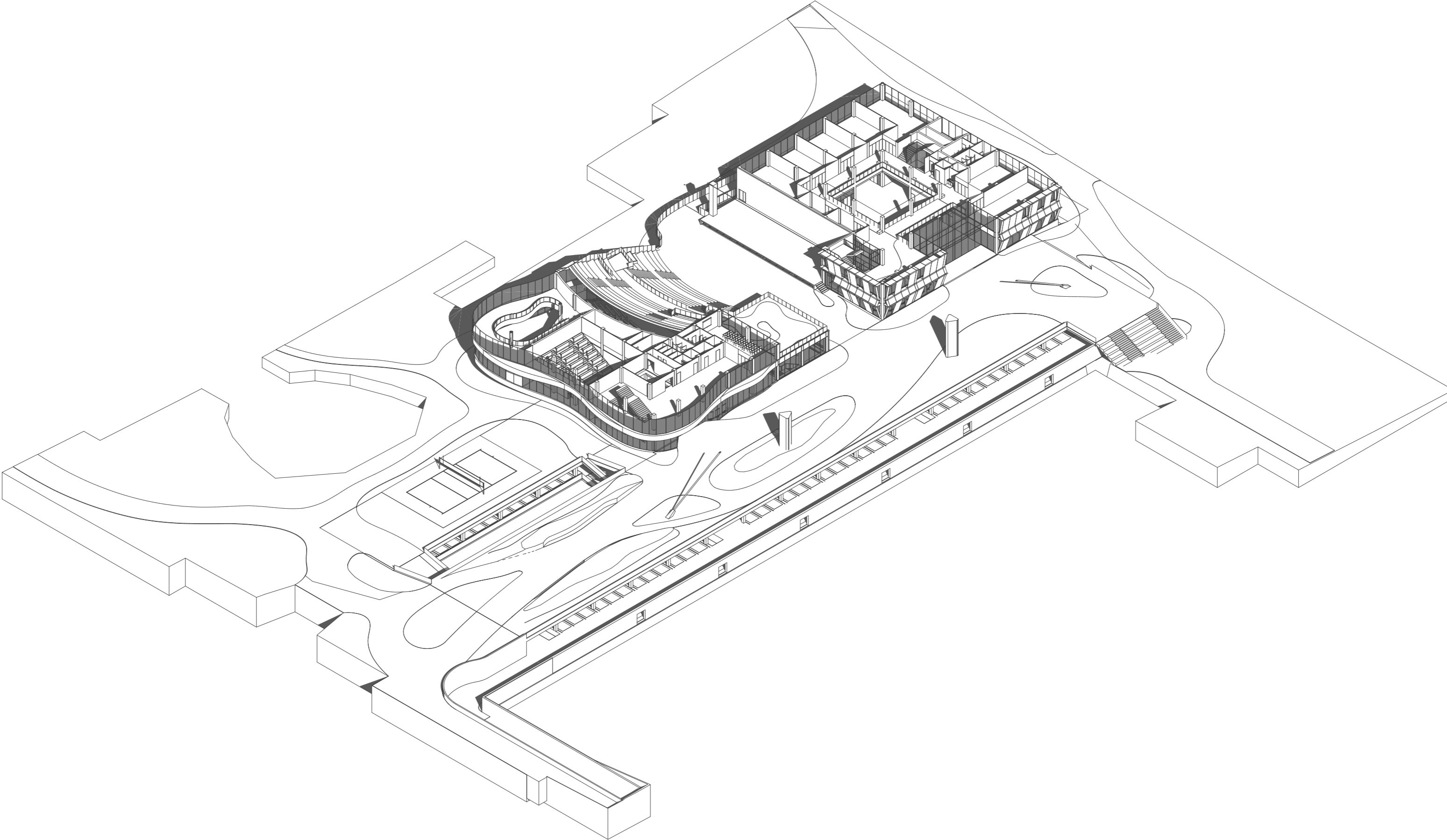


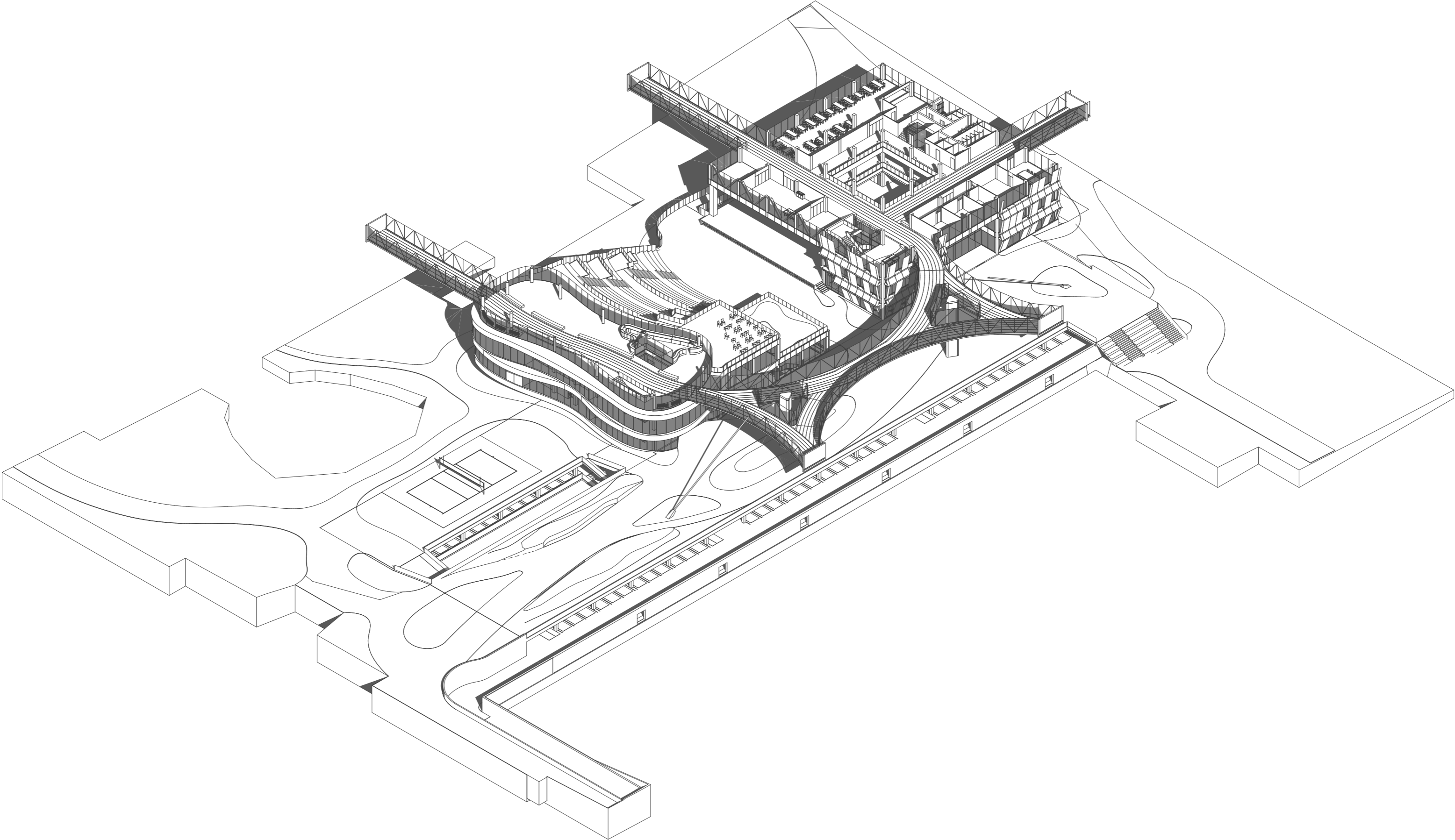
Administration	281,62
Corridors	3 714,76
Eating	1 179,56
Food preparation	503,99
Heavy laboratories	1 841,16
Changing rooms	77,72
Information and sales	402,35
Main corridor	892,69
Other	955,72
Research and start up	1 125,50
Rest areas	671,95
Sanitary facilities	504,48
School facilities	1 082,34
	13 233,83 ...

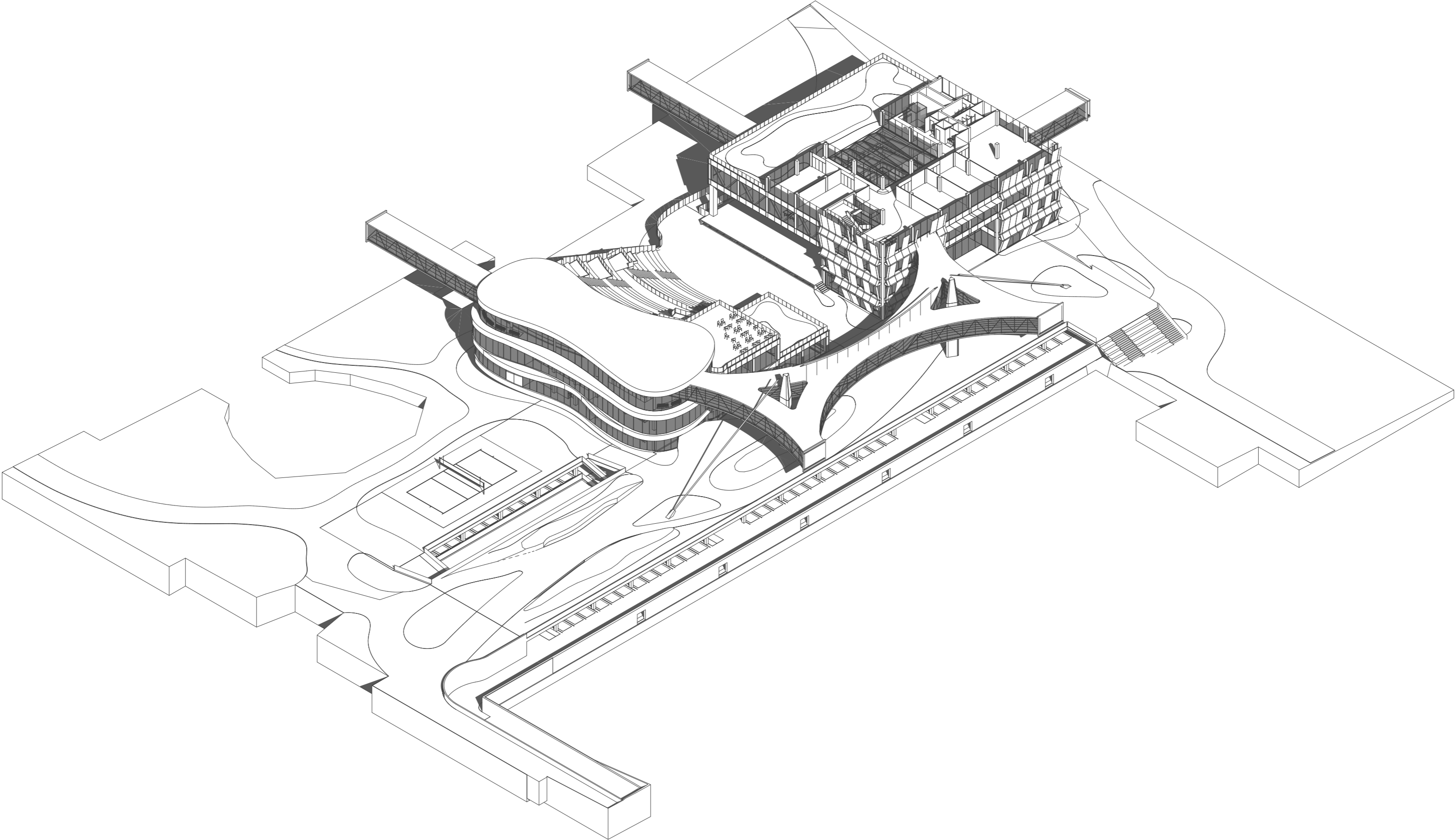


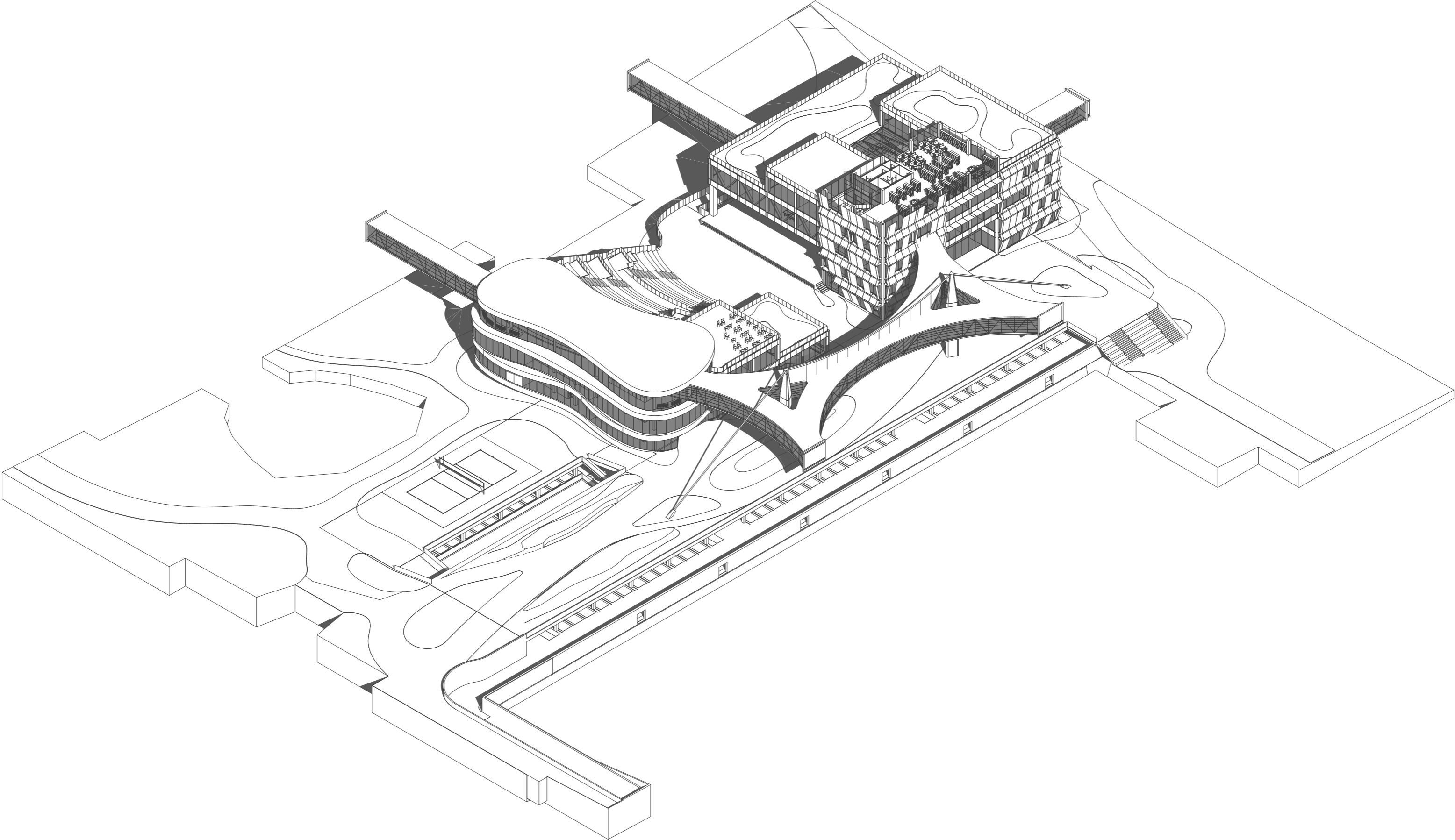




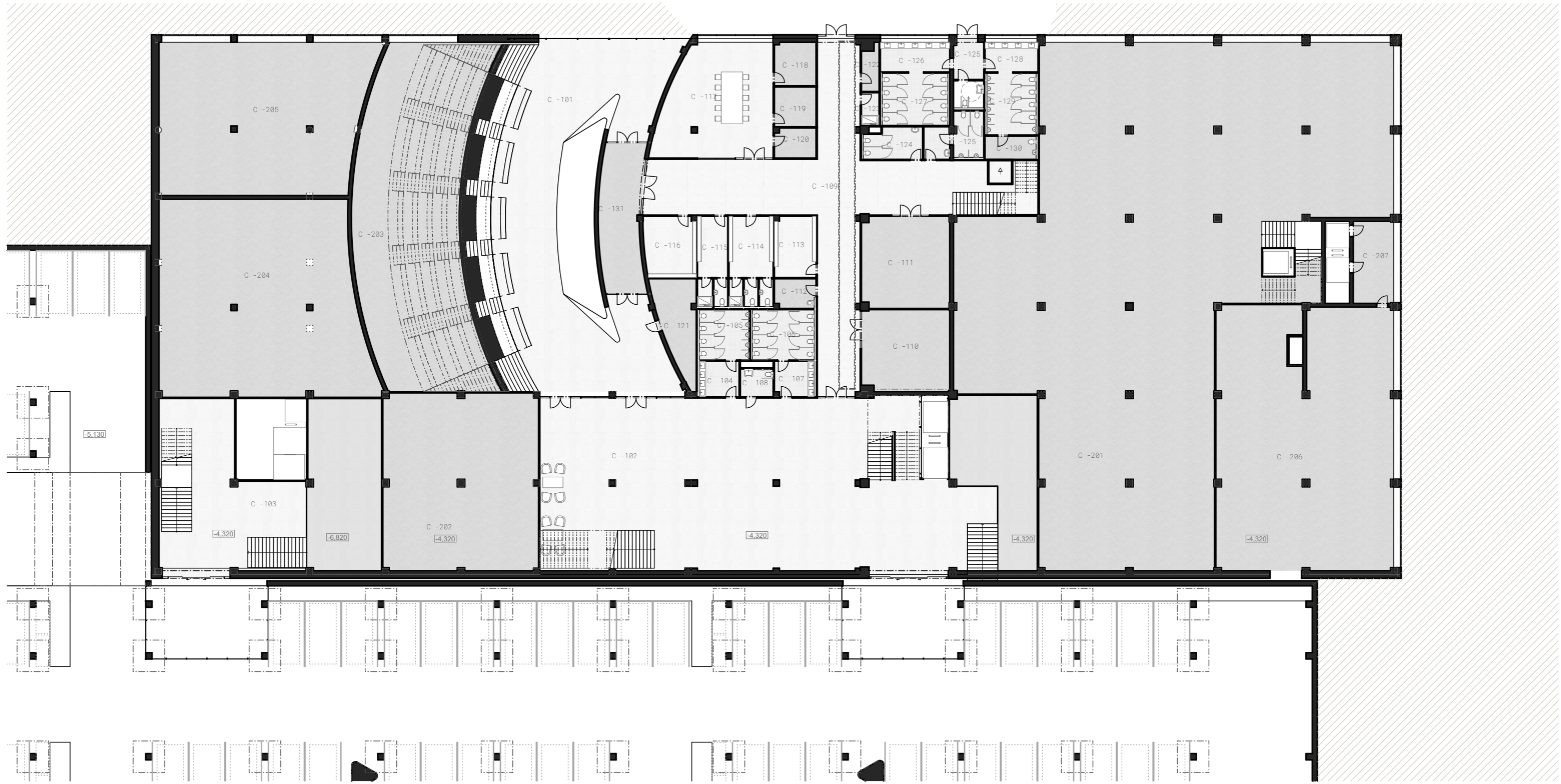




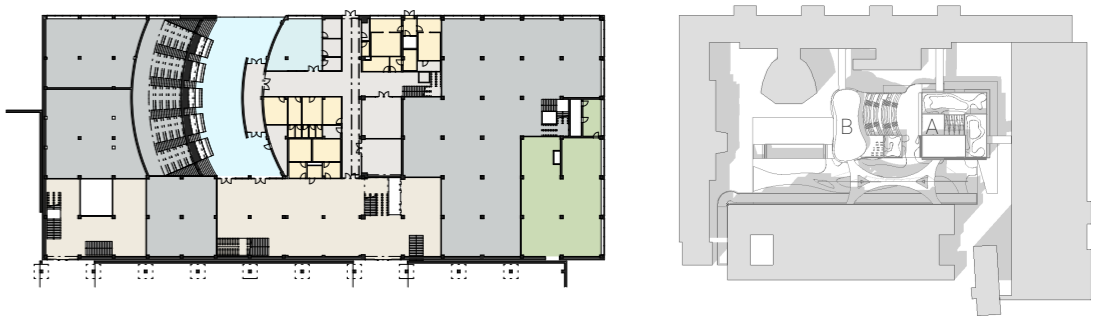


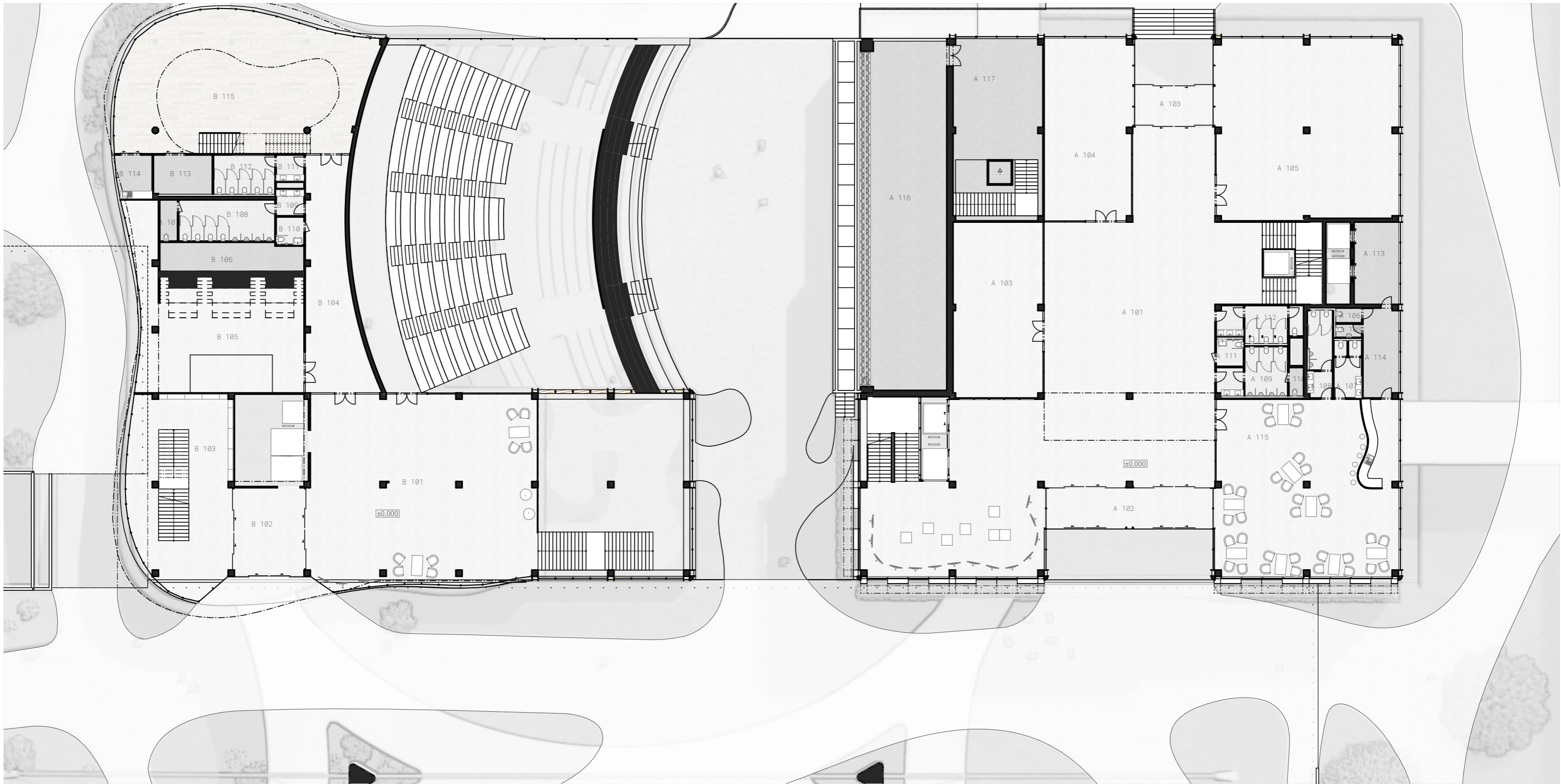




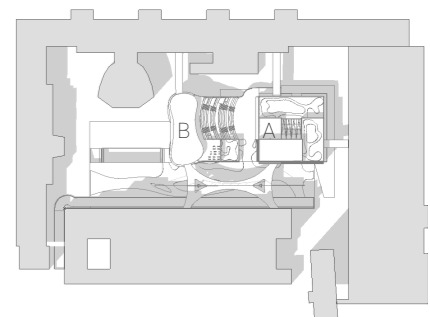
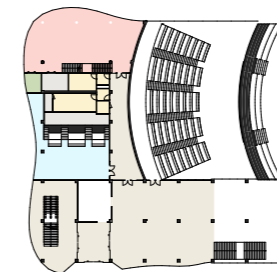


C -101	Assembly hall (200 people)	606,91	C -117	Meeting room	77,33	C -201	Heavy duty laboratory	921,22
C -102	Hall	527,09	C -118	Storage	11,31	C -202	Heavy duty laboratory	172,26
C -103	Entrance hall	204,46	C -119	Storage	10,40	C -203	Heavy duty laboratory	305,90
C -104	Restroom men	8,82	C -120	Storage	7,68	C -204	Heavy duty laboratory	247,23
C -105	WC men	15,80	C -121	Storage	21,50	C -205	Heavy duty laboratory	194,54
C -106	WC women	19,60	C -122	Storage	4,76	C -206	Preparation of canteen and cafe	288,72
C -107	Restroom women	8,66	C -123	Showers	3,64	C -207	Preparation of canteen and cafe	20,96
C -108	Accessible toilet	5,72	C -124	WC women	11,21			
C -109	Service corridor	217,54	C -125	WC - outdoor entrance	7,83			
C -110	Storage	44,93	C -125	WC Men	14,52			
C -111	Storage	50,45	C -126	Restroom women	13,21			
C -112	Cleaning room	7,46	C -127	WC women	21,58			
C -113	Changing room 1	15,85	C -128	Restroom men	9,98			
C -114	Changing room 2	25,04	C -129	WC men	19,11			
C -115	Changing room 3	17,15	C -130	Cleaning room	7,40			
C -116	Changing room 4	19,69	C -131	Anteroom of the assembly hall	39,65			



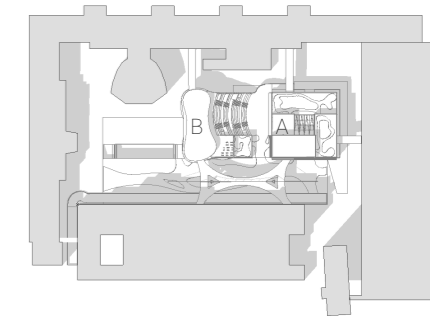
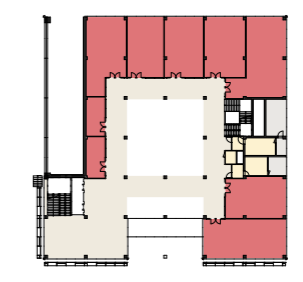
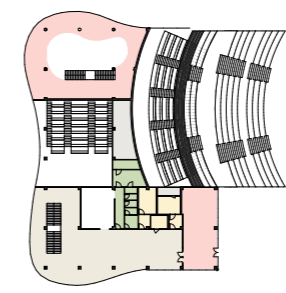


A 101	Hall	567,41	A 115	Cafe	200,85	B 114	Gallery kitchenette	9,86
A 102	Vestibule	41,05	A 116	Stage	242,44	B 115	Gallery	202,36
A 103	Information and sale of promotional items	98,15	A 117	Backstage	101,71			
A 103	Vestibule	19,22	B 101	Hall	268,82			
A 104	Retail space for rent	99,45	B 102	Vestibule	45,18			
A 105	Retail space for rent	204,75	B 103	Stairs	119,47			
A 106	Cleaning room	2,37	B 104	Corridor	72,50			
A 107	WC women	9,99	B 105	Auditorium (80 people)	137,37			
A 108	WC men	13,82	B 106	Utility room	25,10			
A 108	WC women	2,15	B 107	Cleaning room	4,55			
A 109	WC men	18,32	B 108	WC men	24,70			
A 110	Cleaning room	2,59	B 109	Restroom men	4,51			
A 111	Accessible toilet	4,62	B 110	Accessible toilet	4,84			
A 112	WC women	18,59	B 111	Restroom women	4,51			
A 113	Preparation	22,93	B 112	WC women	15,04			
A 114	Cafe preparation	19,58	B 113	Furniture storage	14,57			





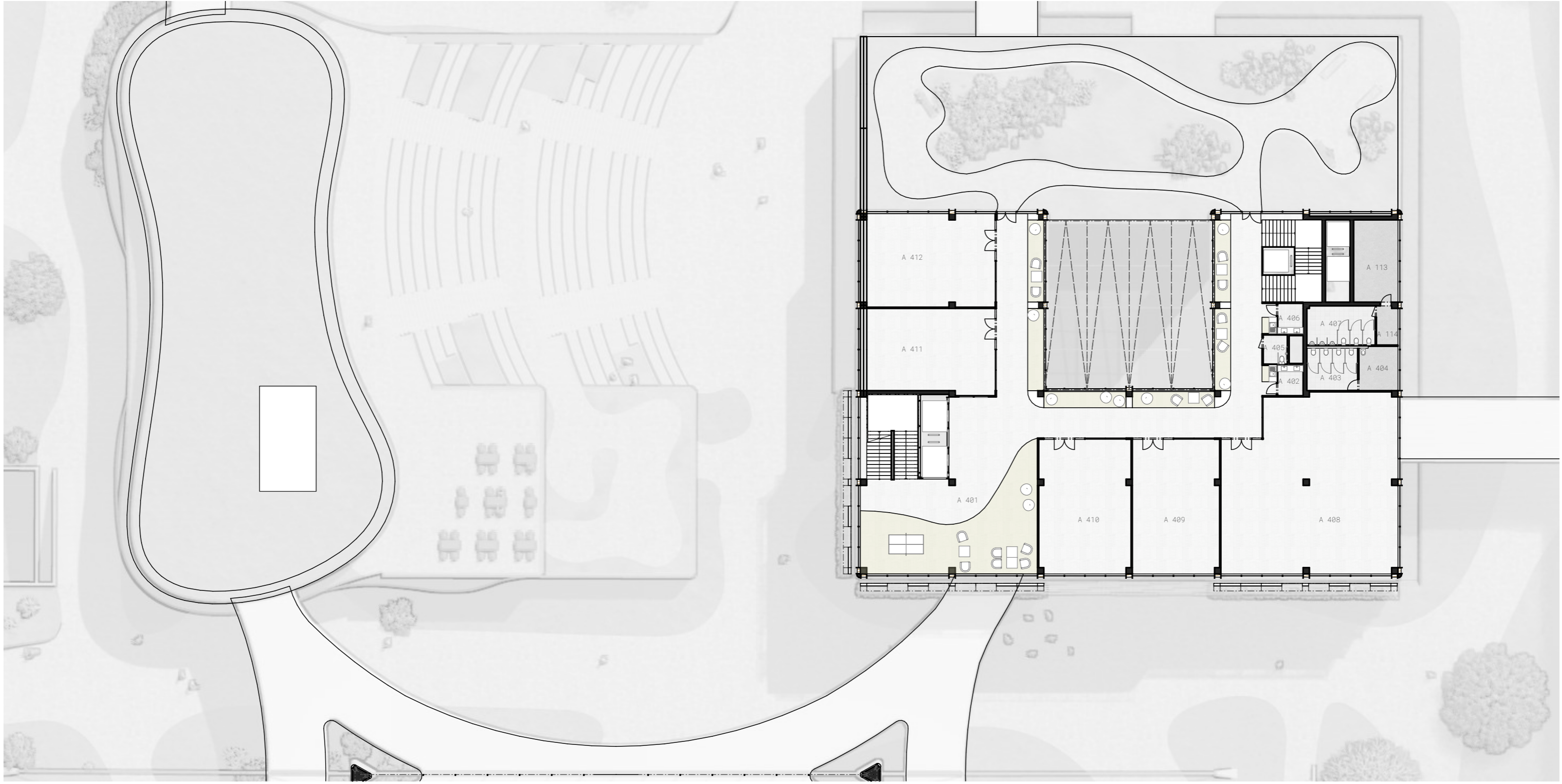
A 116	Utility room	22,75	A 215	Startup and inovation	24,29	B 213	Cafe preparation	16,38
A 117	Utility room	5,34	A 216	Startup and inovation	99,30	B 214	Installation space	35,99
A 201	Residential corridor	475,17	B 201	Corridor	282,13	B 214	Storage	7,61
A 202	Restroom women	4,80	B 202	Conference room	86,13	B 215	Gallery	178,92
A 203	WC women	13,65	B 203	Restroom men	5,84			
A 204	Cleaning room	10,36	B 204	Cleaning room	5,72			
A 205	Accessible toilet	4,37	B 204	WC men	12,68			
A 206	Restroom men	4,80	B 206	WC women	14,37			
A 207	WC men	16,85	B 207	Cafe cloakroom	5,64			
A 208	Startup and inovation	76,65	B 207	Restroom women	4,84			
A 209	Startup and inovation	111,92	B 208	WC	2,64			
A 210	Startup and inovation	76,95	B 209	Cleaning room	2,64			
A 211	Startup and inovation	73,08	B 210	Cafe - shower for employees	2,31			
A 212	Startup and inovation	69,23	B 211	Accessible toilet	6,93			
A 213	Startup and inovation	86,24	B 211	Storage	2,31			
A 214	Startup and inovation	23,03	B 212	Corridor	11,68			



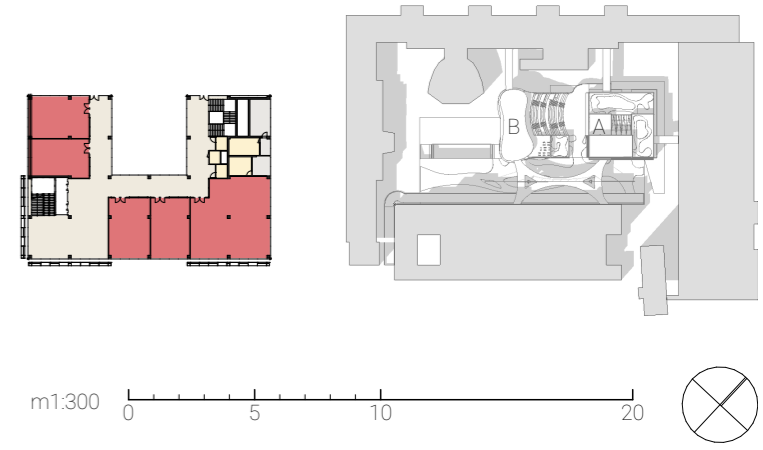


A 301	Residential corridor	708,80	A 316	Study room	54,40
A 302	Waiting room	33,80	A 317	Canteen	273,18
A 303	Office	25,28	A 318	Preparation	64,47
A 304	Office	25,23	A 319	Employees	15,64
A 305	Office	17,93	A 320	Cleaning room	2,59
A 306	Office	48,10	A 321	Restroom employees	1,85
A 307	Meeting room	53,95	A 322	WC employees	1,67
A 308	Restroom women	7,56	B 301	Cafe on the amphitheater	705,52
A 309	WC women	20,14	D 301	Main connecting bridge	605,87
A 310	Accessible toilet	4,37	D 302	Bridge to the Faculty of Civil Engineering	65,73
A 311	Restroom men	7,56	D 303	Bridge to the technical faculty 1	116,66
A 312	WC men	22,31	D 304	Bridge to the technical faculty	104,43
A 313	Cleaning room	3,69			
A 314	Student room	99,45			
A 315	Study room	50,70			



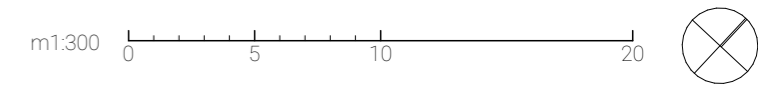
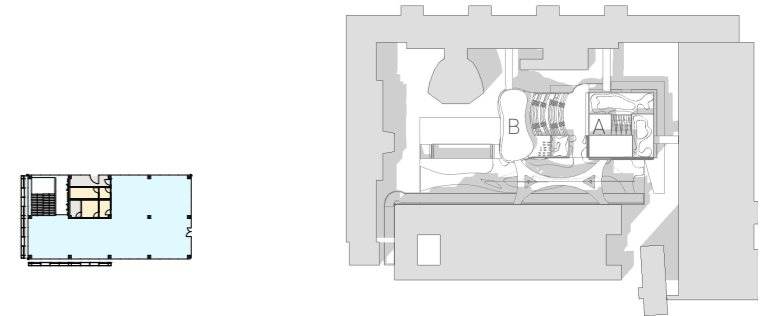


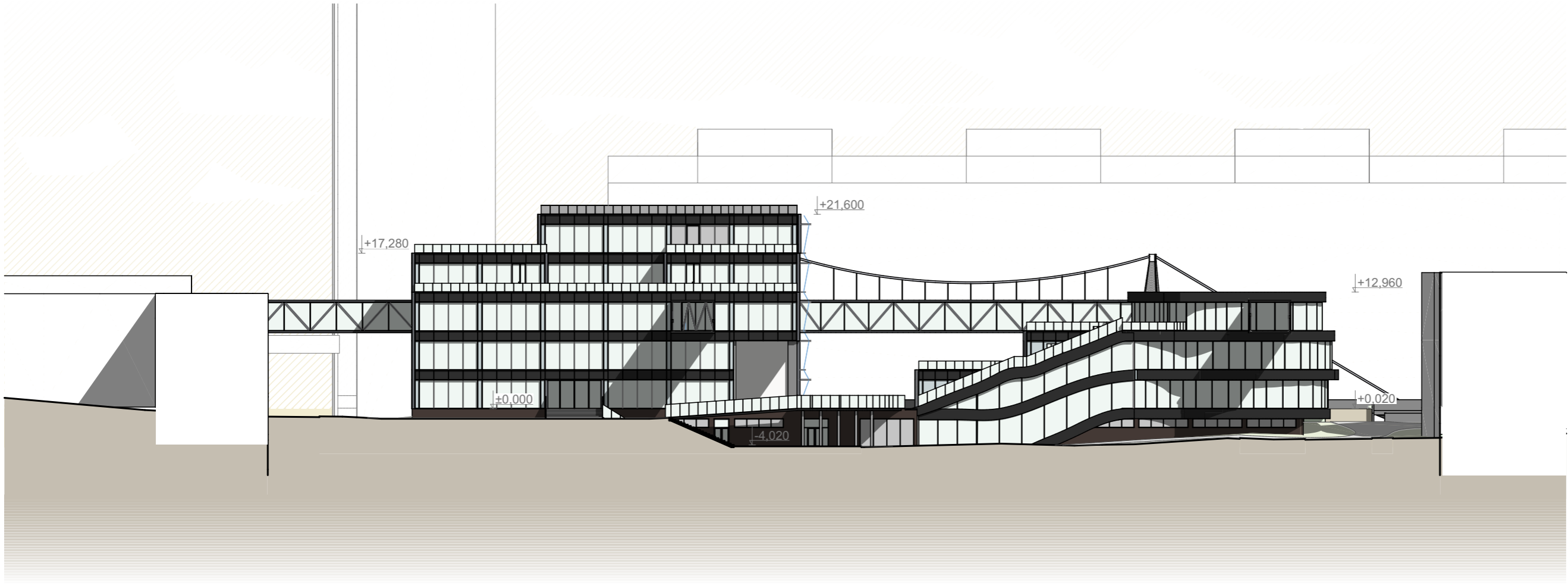
A 113	Utility room	22,75
A 114	Utility room	5,16
A 401	Residential corridor	383,46
A 402	Restroom women	4,80
A 403	WC women	13,65
A 404	Cleaning room	10,72
A 405	Accessible toilet	4,37
A 406	Restroom men	4,80
A 407	WC men	16,85
A 408	Startup and inovation	186,38
A 409	Startup and inovation	73,08
A 410	Startup and inovation	76,94
A 411	Startup and inovation	70,49
A 412	Startup and inovation	77,91



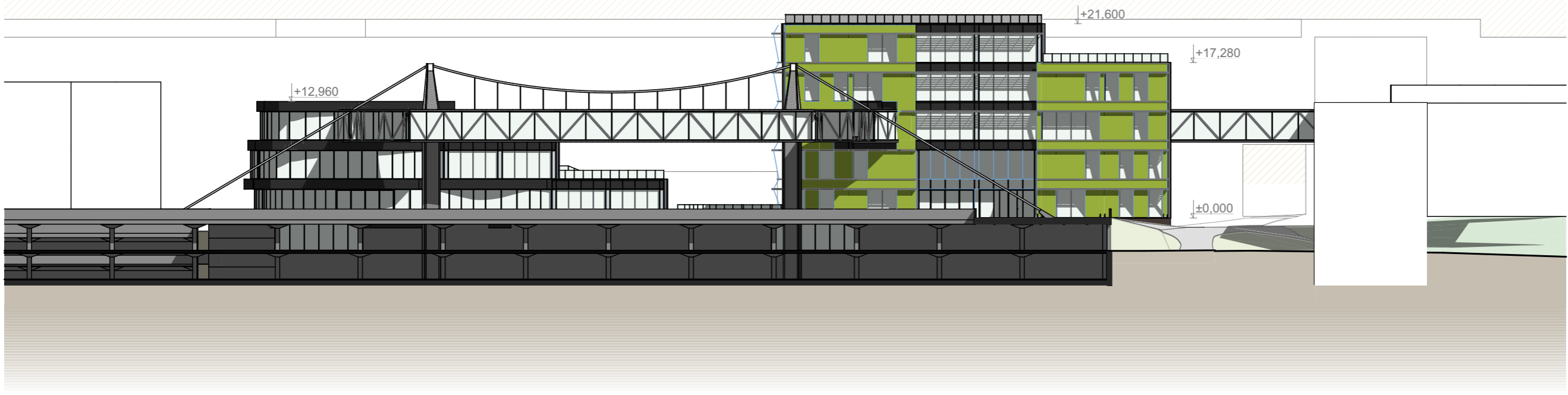


A 501	Media library	338,05
A 502	WC women	15,65
A 503	Cleaning room	5,94
A 504	WC men	14,66
A 505	Entrance to the roof	13,26





NW - North-west elevation



SE - South-east elevation

