

# Kardia Kerkyras

---

**Laus, Petar**

## Supplement / Prilog

Publication year / Godina izdavanja: **2017**

Permanent link / Trajna poveznica: <https://urn.nsk.hr/urn:nbn:hr:123:448745>

Rights / Prava: [In copyright](#)/[Zaštićeno autorskim pravom.](#)

Download date / Datum preuzimanja: **2025-04-04**



Repository / Repozitorij:

[FCEAG Repository - Repository of the Faculty of Civil Engineering, Architecture and Geodesy, University of Split](#)



UNIVERSITY OF SPLIT

  
DIGITALNI AKADEMSKI ARHIVI I REPOZITORIJI



Kardia Kerkyras











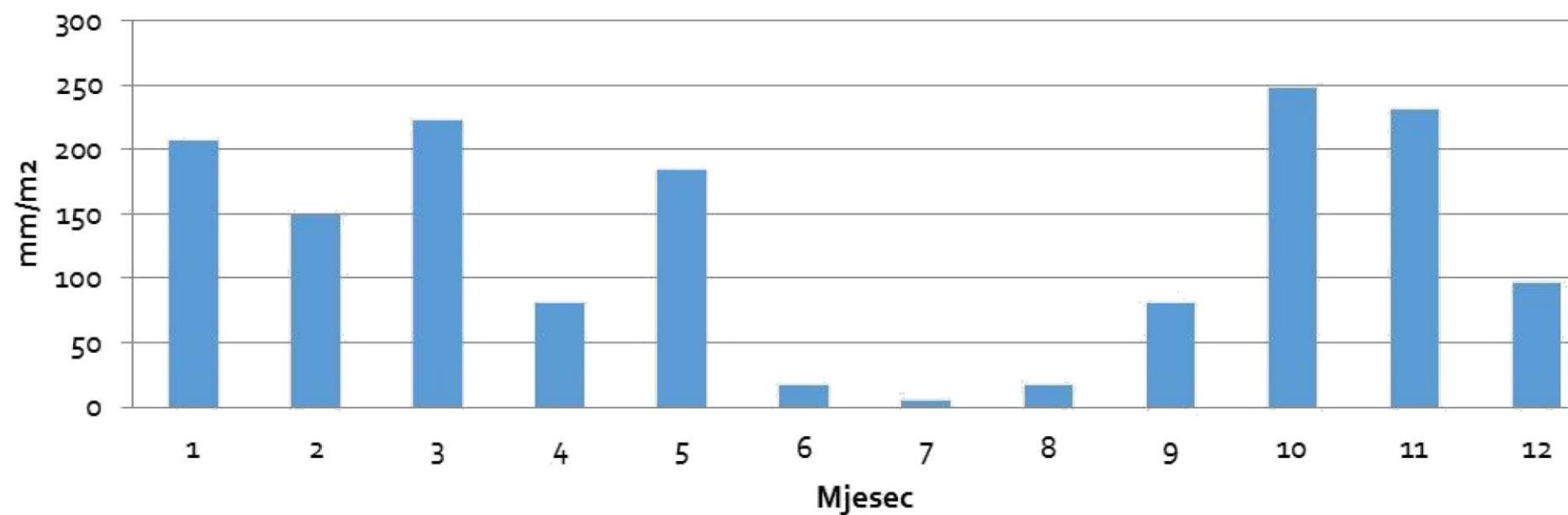




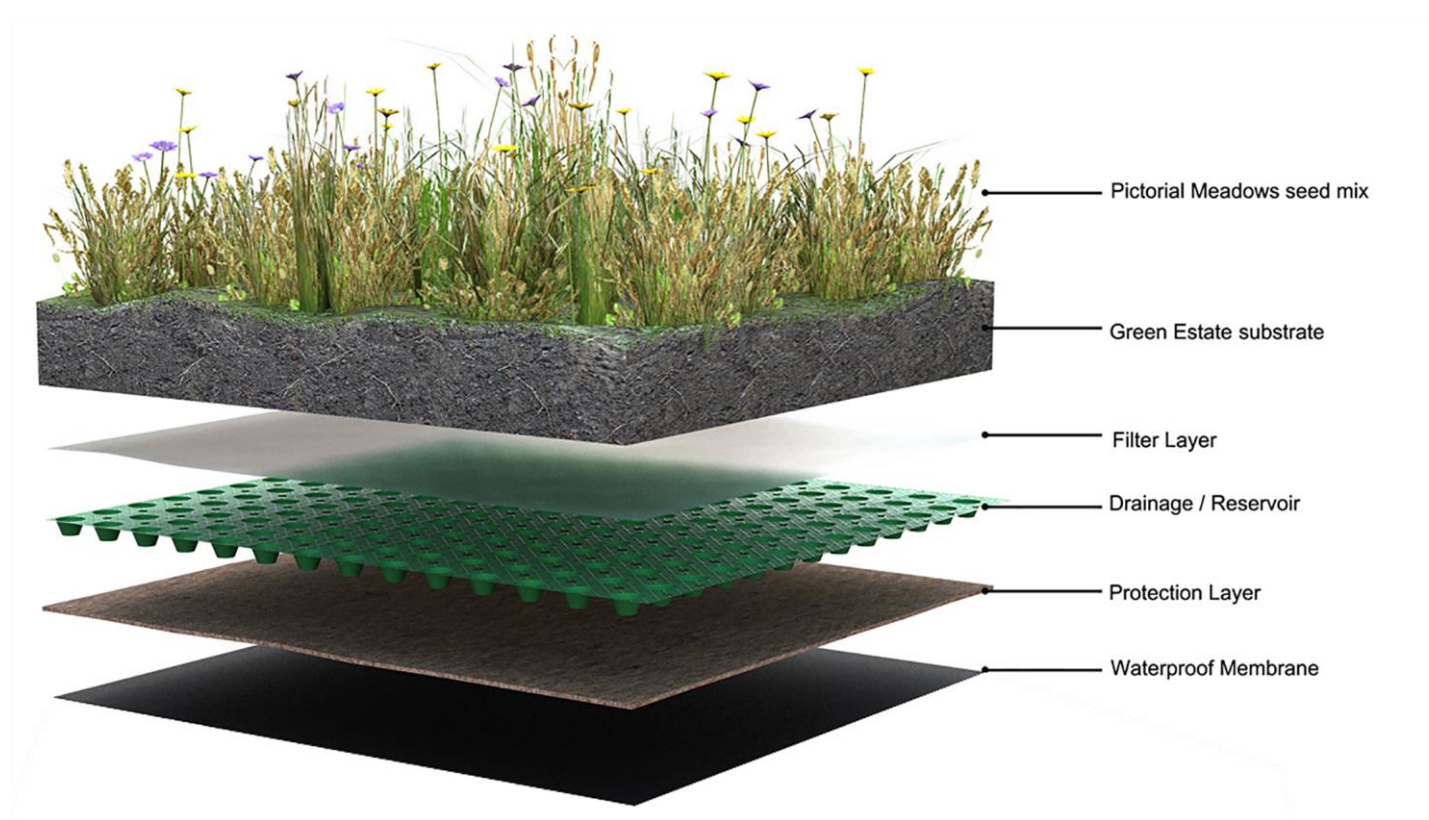




# Padaline

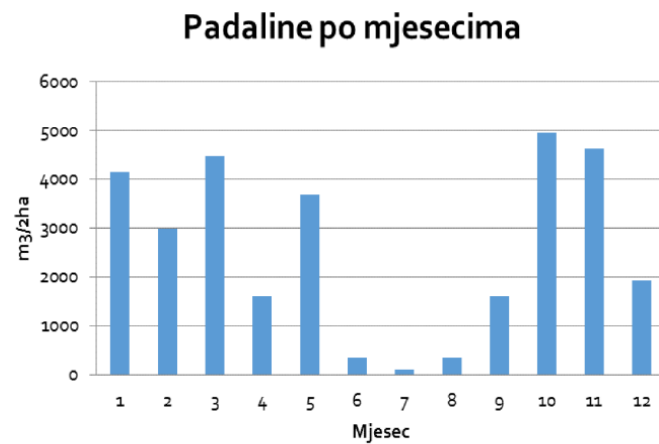


*Graf količine padalina po mjesecima*



Mjesec	Broj dana	Padaline (mm/m <sup>2</sup> )	Bruto količina vode prikupljene na dva hektra (m <sup>3</sup> /zha)	Bruto količina vode prikupljene na dva hektra kumulativno (m <sup>3</sup> /zha)
Siječanj	31	207,1	4 142	4 142
Veljača	28	148,8	2 976	7 118
Ožujak	31	223	4 460	11 578
Travanj	30	80,6	1 612	13 190
Svibanj	31	184,5	3 690	16 880
Lipanj	30	17	340	17 220
Srpanj	31	4,7	94	17 314
Kolovoz	31	16,7	334	17 648
Rujan	30	80,3	1 606	19 254
Listopad	31	247,3	4 946	24 200
Studenj	30	230,9	4 618	28 818
Prosinac	31	96,1	1 922	30 740
<b>Ukupno</b>	<b>365</b>	<b>1537</b>	<b>30 740</b>	<b>30 740</b>

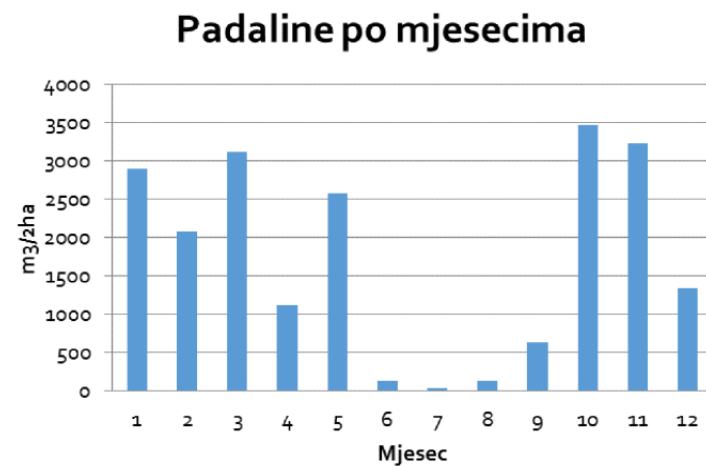
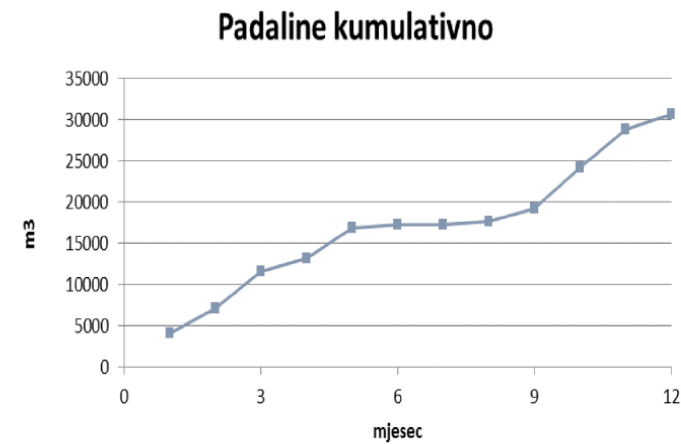
Tablica bruto prikupljanja padalina u resortu



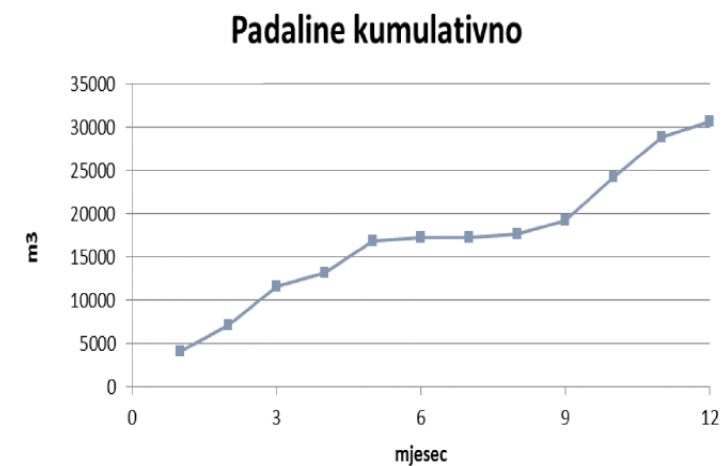
Grafovi količine padalina po mjesecima prikupljenim na površini 2 hektra

Mjesec	Broj dana	Iskoristivost	Padaline (mm/m <sup>2</sup> )	Neto količina vode prikupljene na dva hektra (m <sup>3</sup> /zha)	Neto količina vode prikupljene na dva hektra kumulativno (m <sup>3</sup> /zha)
Siječanj	31	0,7	207,1	2899,4	2899,4
Veljača	28	0,7	148,8	2083,2	4982,6
Ožujak	31	0,7	223	3122	8104,6
Travanj	30	0,7	80,6	1128,4	9233
Svibanj	31	0,7	184,5	2583	11816
Lipanj	30	0,4	17	136	11952
Srpanj	31	0,4	4,7	37,6	11989,6
Kolovoz	31	0,4	16,7	133,6	12123,2
Rujan	30	0,4	80,3	642,4	12765,6
Listopad	31	0,7	247,3	3462,2	16227,8
Studenj	30	0,7	230,9	3232,6	19460,4
Prosinac	31	0,7	96,1	1345,4	20805,8
<b>Ukupno</b>	<b>365</b>		<b>1537</b>	<b>20805,8</b>	<b>20805,8</b>

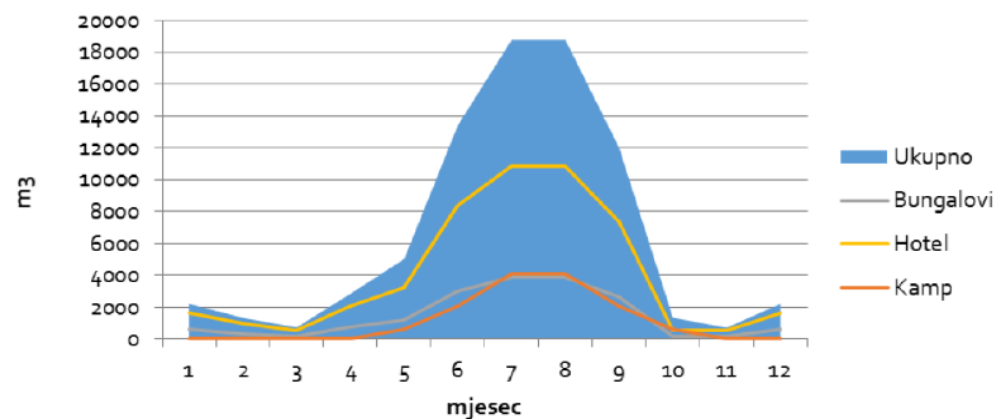
Tablica neto prikupljanja padalina u resortu



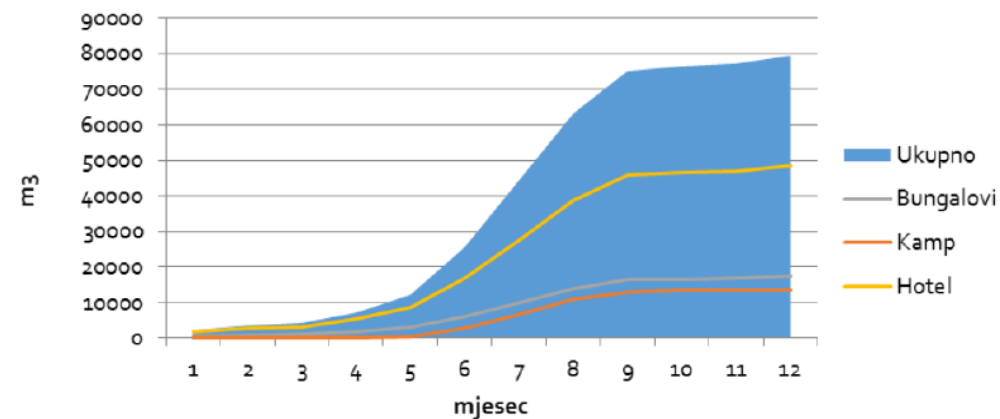
Grafovi neto količine padalina po mjesecima prikupljenim na površini 2 hektra



## Potrošnja vode



## Potrošnja vode kumulativno

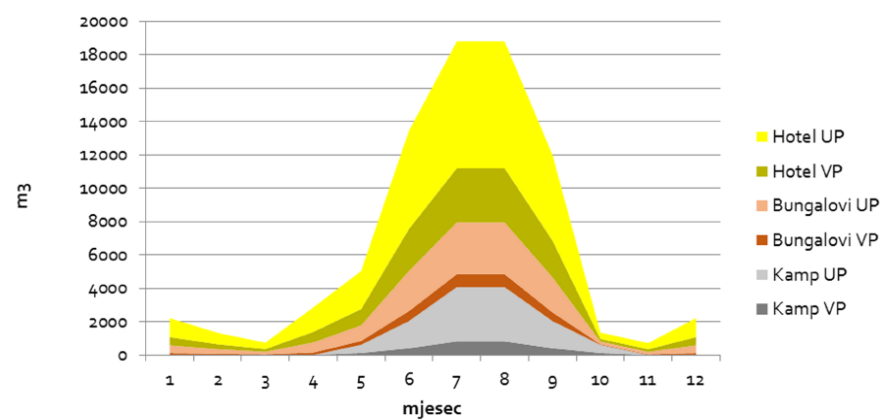


Grafovi potrošnje vode po mjesecima

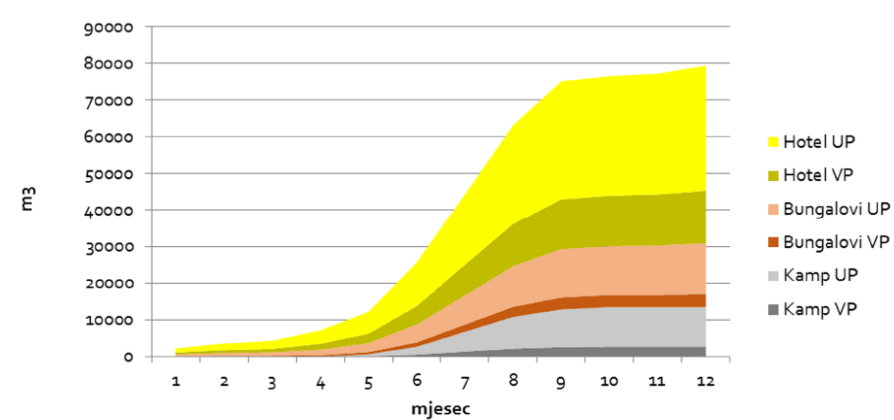
Mjesec	Broj dana	Popunjenost	Hotel + Spa (m³)	Kamp (m³)	Bungalovi (m³)	Ukupno (m³)	Ukupno kumulativno (m³)
Siječanj	31	0,15	1627	0	581	2 208	2208,75
Veljača	28	0,1	980	0	350	1 330	3538,75
Ožujak	31	0,05	542	0	193	736	4275
Travanj	30	0,2	2100	0	750	2 850	7125
Svibanj	31	0,3	3255	610	1162	5 027	12152
Lipanj	30	0,8	8400	2034	3000	13 434	25587
Srpanj	31	1	10850	4068	3875	18 793	44380
Kolovoz	31	1	10850	4068	3875	18 793	63174
Rujan	30	0,7	7350	2034	2625	12 009	75184
Listopad	31	0,05	542	610	193	1 346	76530
Studeni	30	0,05	525	0	187	712	77243
Prosinac	31	0,15	1627	0	581	2 208	79451
<b>Ukupno</b>	<b>365</b>		<b>48 650</b>	<b>13 426</b>	<b>17 375</b>	<b>79451</b>	<b>79451</b>

Tablica potrošnje vode u resortu

## Padaline i potrošnja



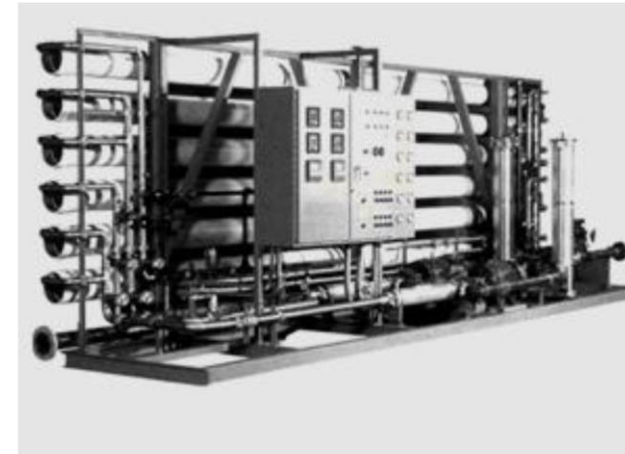
## Padaline i potrošnja kumulativno



Grafovi potrošnje vode u objektima resorta razdijeljen na vanjsku (VP) i unutrašnju (UP) potrošnju

Particular	Make	20000 LPH
Plant type		Skid Mounted
Raw Water Pump	Kirloskar	6 HP
Sand Media filter	Creative	48"x72"
Carbon Media filter	Creative	48"x72"
Micron Filter	Creative	Big Blue 20"- 4Nos.
Vertical High Pressure pump	Grandfos	14HP
Pressure tube	Creative	4"x80"- 5/6Nos.
RO Membrane	Hydronautics/ Dow (Filtec)	8040- 10/12 No.
Anti Scaling Dosing Pump	Creative	0-12 LPH
CIP System	Kirloskar Pump SS	Auto/Manual with or w/o pump
Ph boosting system	Creative	Metering pump with tank
Pressure Gage	HG – SS gel filled	6 nos.
Flow/ Rota meter	Creative	2 Nos.
Pipe & fitting	Finolex/ Astral	PVC/SS
Low & High pressure switch		1-1 Each

20000 Lph  
480 m<sup>3</sup> na dan



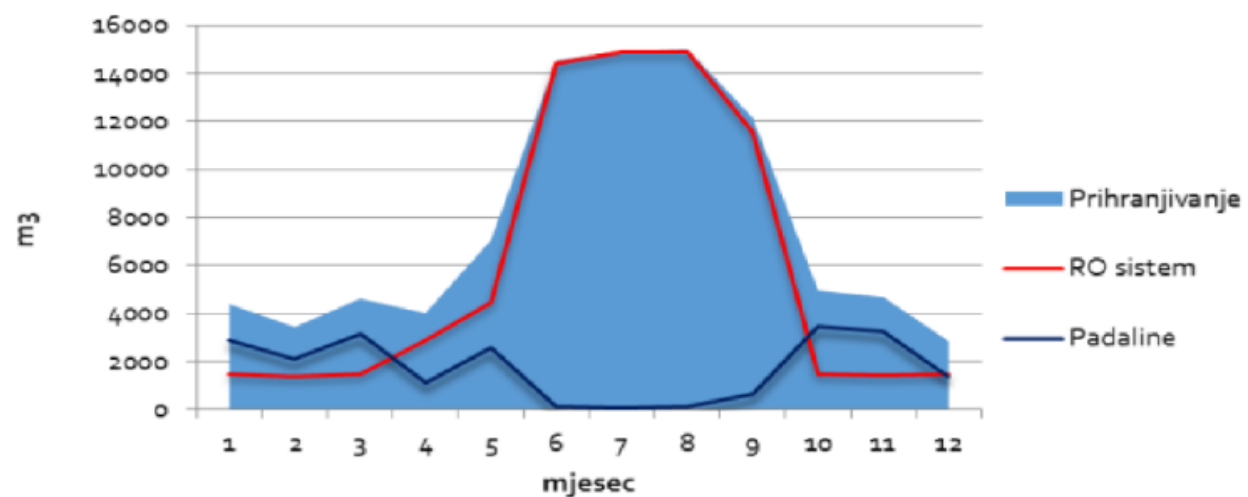
Mjesec	Broj dana	Kapacitet rada RO sistema	Ukupno RO sistem opskrba (m <sup>3</sup> )	Ukupno kumulativno RO sistem opskrba (m <sup>3</sup> )	Kišnica prikupljena na dva hektra (m <sup>3</sup> /2ha)	Kišnica prikupljena na dva hektra kumulativno (m <sup>3</sup> /2ha)	RO sistem + kišnica (m <sup>3</sup> )	RO sistem + kišnica kumulativno (m <sup>3</sup> )
Siječanj	31	0,1	1 488	1 488	2899,4	2899,4	4387,4	4387,4
Veljača	28	0,1	1 344	2 832	2083,2	4982,6	3427,2	7814,6
Ožujak	31	0,1	1 488	4 320	3122	8104,6	4610	12424,6
Travanj	30	0,2	2 880	7 200	1128,4	9233	4008,4	16433
Svibanj	31	0,3	4 464	11 664	2583	11816	7047	23480
Lipanj	30	1	14 400	26 064	136	11952	14536	38016
Srpanj	31	1	14 880	40 944	37,6	11989,6	14917,6	52933,6
Kolovoz	31	1	14 880	55 824	133,6	12123,2	15013,6	67947,2
Rujan	30	0,8	11 520	67 344	642,4	12765,6	12162,4	80109,6
Listopad	31	0,1	1 488	68 832	3462,2	16227,8	4950,2	85059,8
Studenj	30	0,1	1 440	70 272	3232,6	19460,4	4672,6	89732,4
Prosinac	31	0,1	1 488	71 760	1345,4	20805,8	2833,4	92565,8
<b>Ukupno</b>	<b>365</b>		<b>71 760</b>	<b>71 760</b>	<b>20805,8</b>	<b>20805,8</b>	<b>92565</b>	<b>92565</b>

Tablica opskrbe vodom u resortu

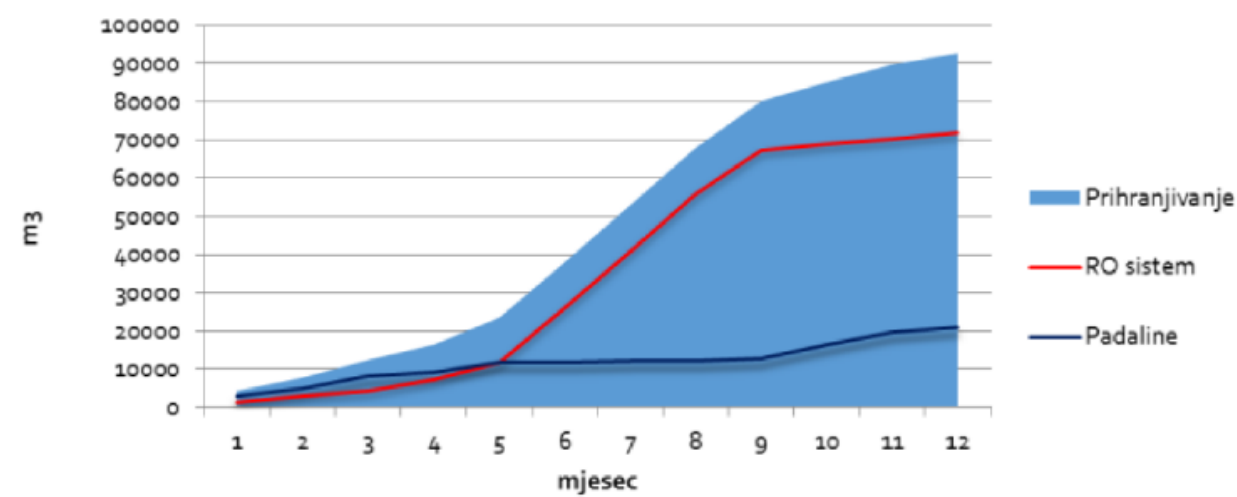
Mjesec	Broj dana	RO sistem + kišnica (m <sup>3</sup> )	RO sistem + kišnica kumulativno (m <sup>3</sup> )	Potrošnja vode (m <sup>3</sup> )	Potrošnja vode kumulativno (m <sup>3</sup> )	Razlika prihrane i potrošnje (m <sup>3</sup> )	Razlika prihrane i potrošnje kumulativno (m <sup>3</sup> )
Siječanj	31	4 387,4	4 387,4	2 208	2 208,75	2 178	2 178
Veljača	28	3 427,2	7 814,6	1 330	3 538,75	2 097	4 275
Ožujak	31	4 610	12 424,6	736	4 275	3 873	8 149
Travanj	30	4 008,4	16 433	2 850	7 125	1 158	9 308
Svibanj	31	7 047	23 480	5 027	12 152	2 019	11 327
Lipanj	30	14 536	38 016	13 434	25 587	1 101	12 428
Srpanj	31	14 917,6	52 933,6	18 793	44 380	-3 876	8 552
Kolovoz	31	15 013,6	67 947,2	18 793	63 174	-3 780	4 772
Rujan	30	12 162,4	80 109,6	12 009	75 184	153	4 925
Listopad	31	4 950,2	85 059,8	1 346	76 530	3 603	8 529
Studenj	30	4 672,6	89 732,4	712	77 243	3 960	12 489
Prosinac	31	2 833,4	92 565,8	2 208	79 451	624	13 113
<b>Ukupno</b>	<b>365</b>	<b>92 565</b>	<b>92 565</b>	<b>79 451</b>	<b>79 451</b>	<b>13 113</b>	<b>13 113</b>

Tablica prihranjivanja i potrošnje vode u resortu

Prihranjivanje

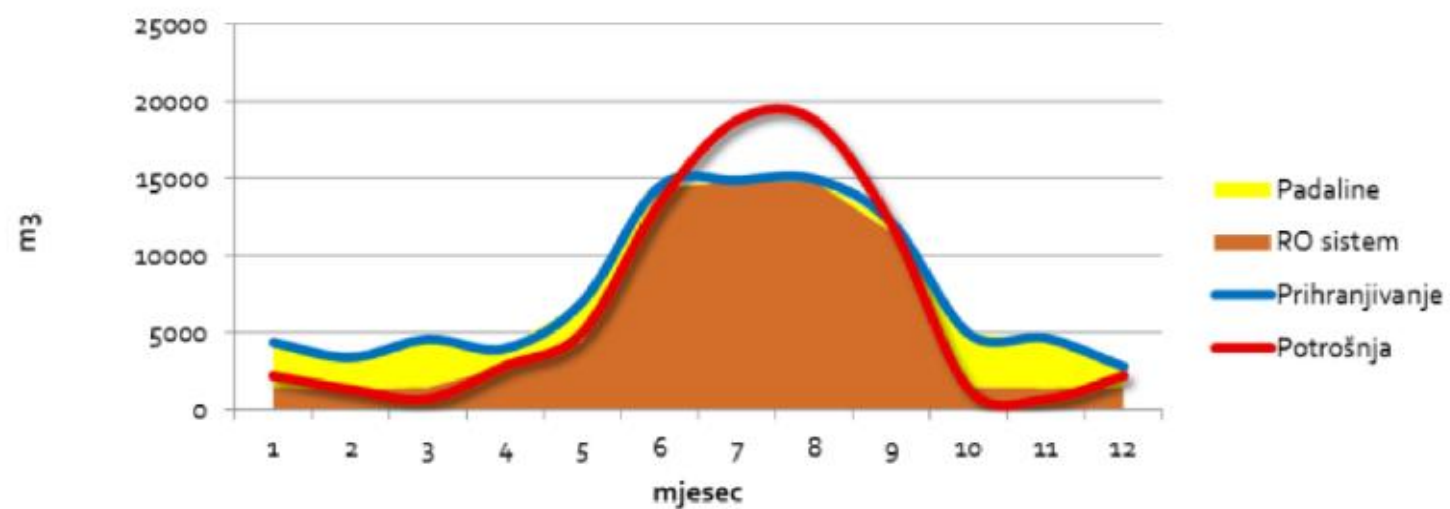


Kumulativno prihranjivanje

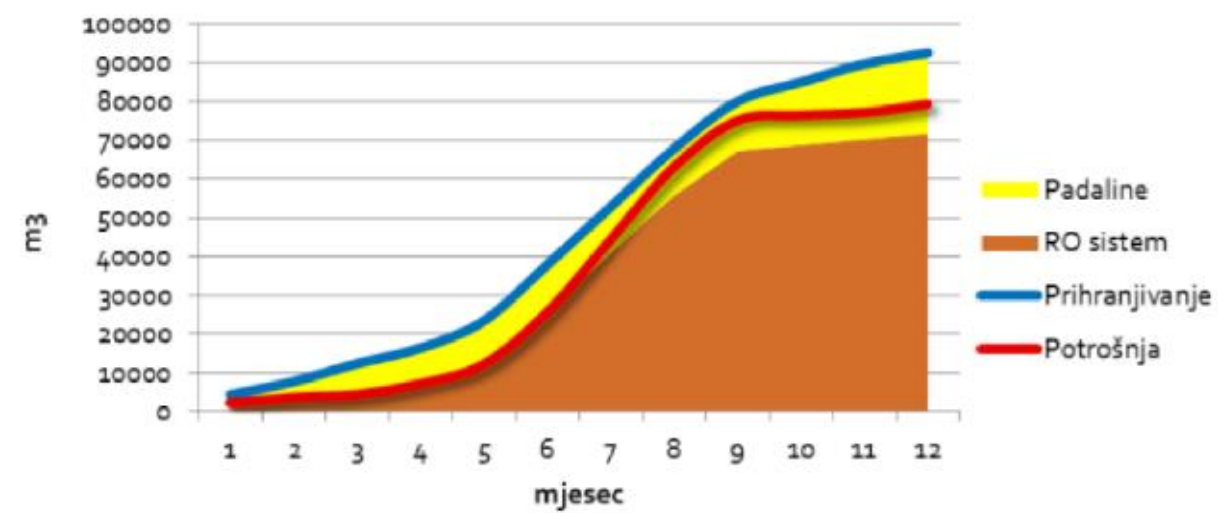


Grafovi prihranjivanja vode u resortu

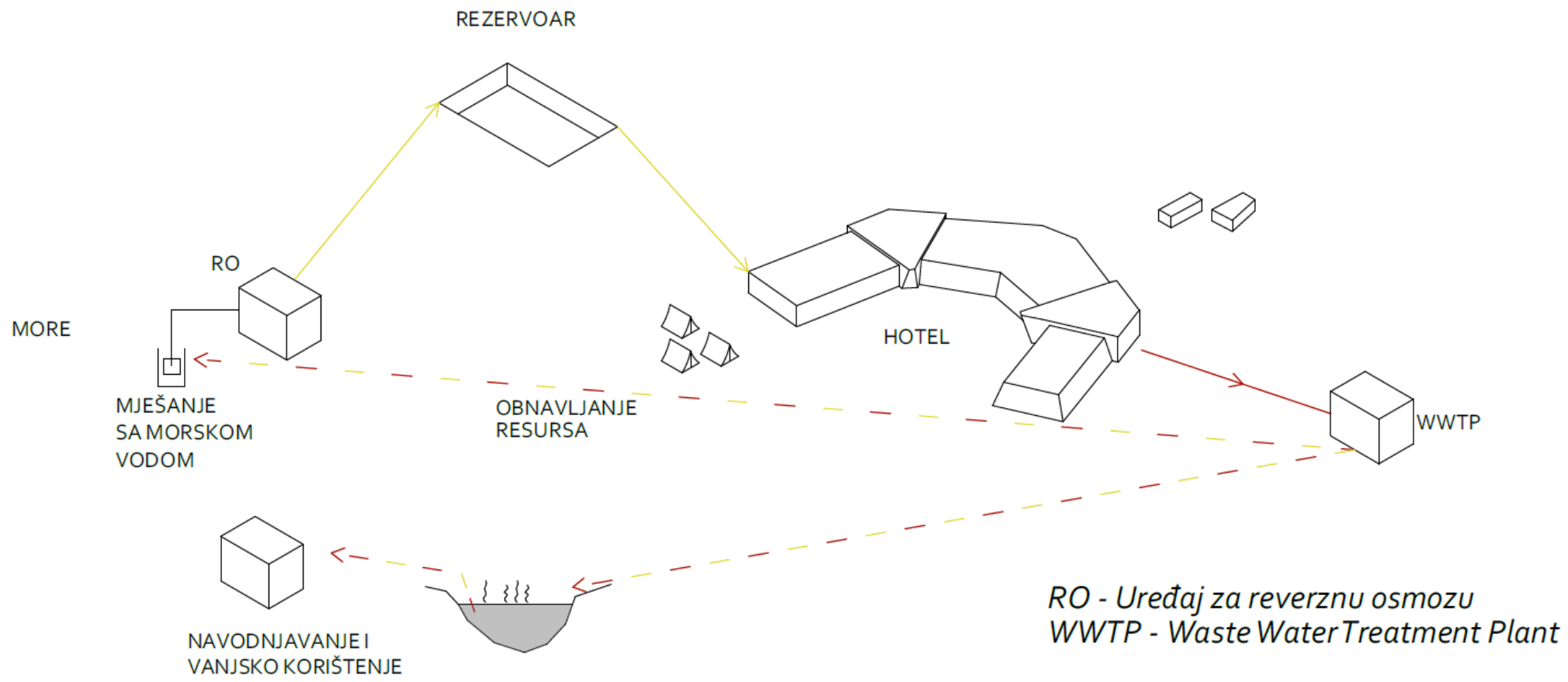
Prihranjivanje i potrošnja



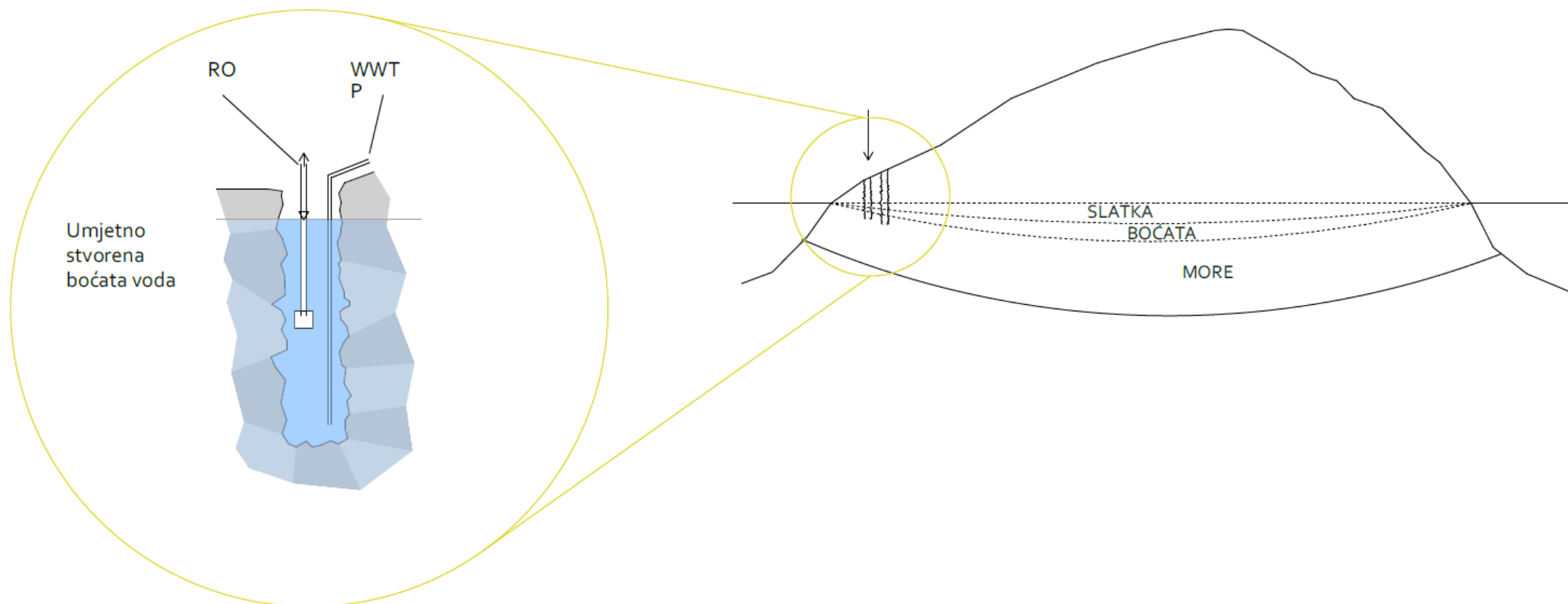
Kumulativno prihranjivanje i potrošnja



Grafovi prihranjivanja i potrošnje vode u resortu

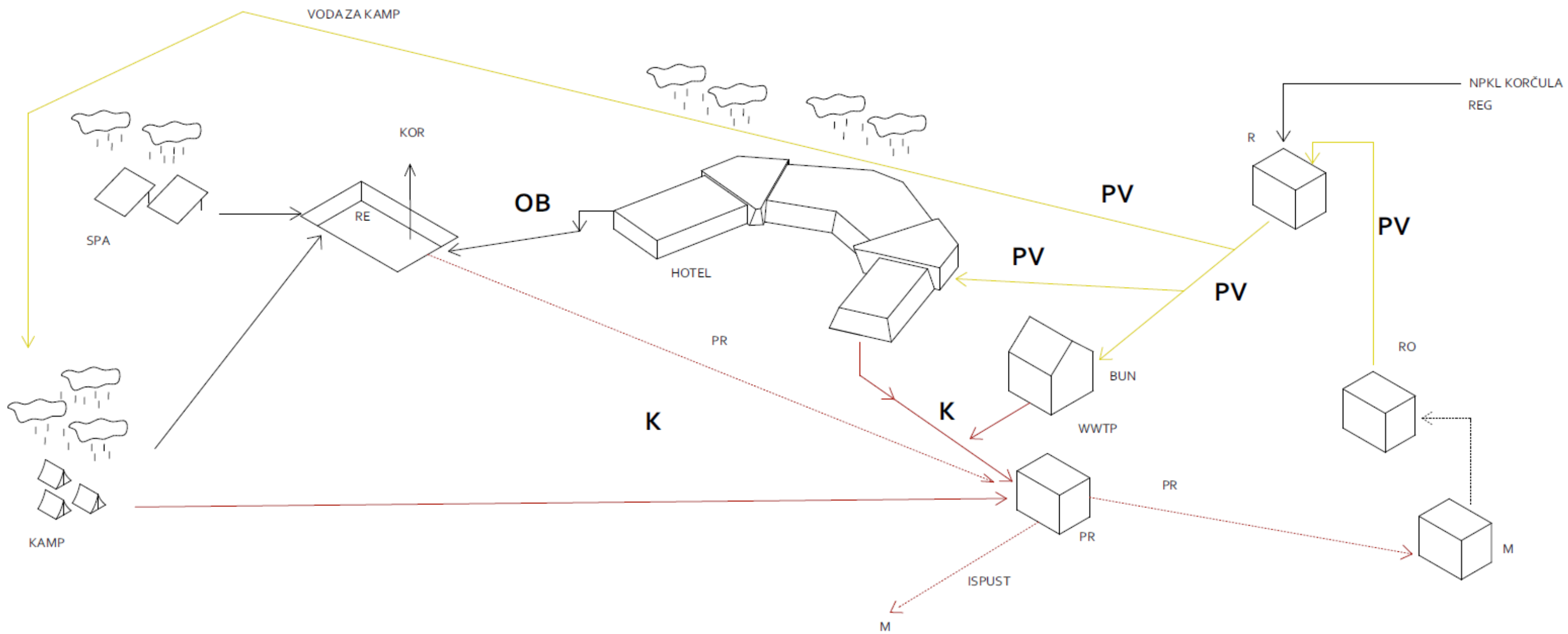


*Dijagram pročišćavanja otpadnih voda*



*Miješanje pročišćenih voda sa morskom vodom*





OB - Krovne vode  
 R - Rezervoar pitke vode  
 RE - Rezervoar nepitke (sirove) vode  
 SPA - SPA  
 REG - Regionalni vodovod  
 RO - Uređaj za reverznu osmozu

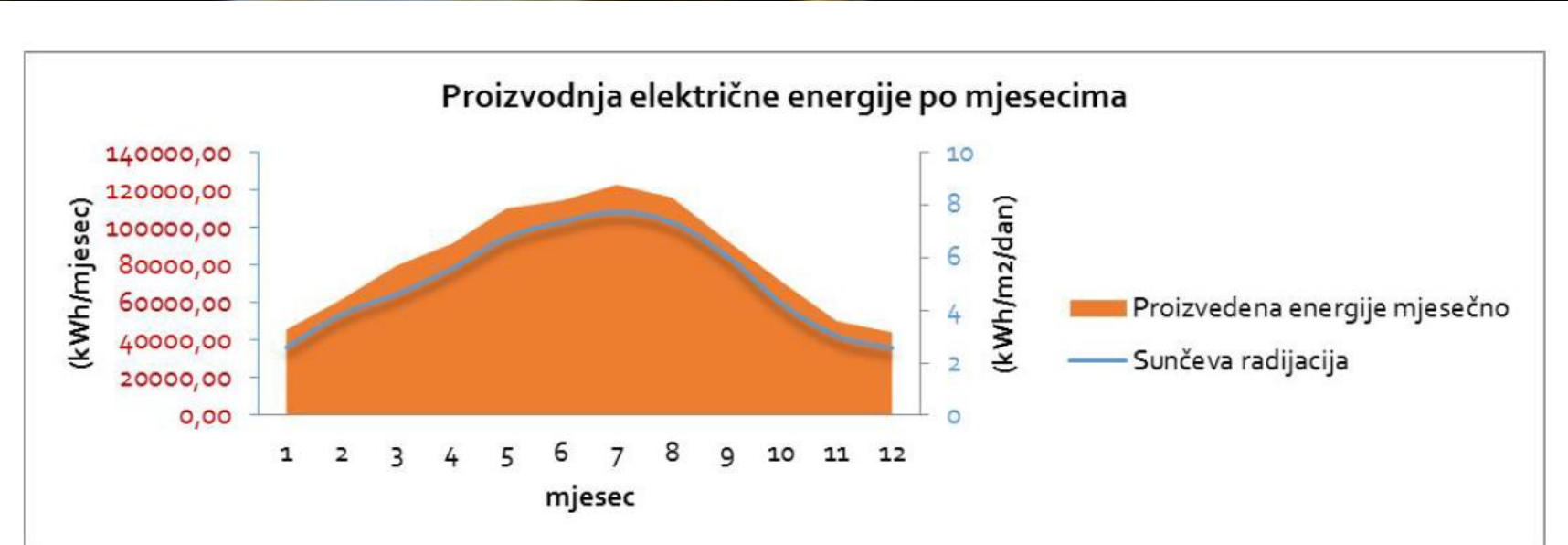
M - More zahvat  
 WWTP - Uređaj otpadnih voda  
 K - Kanalizacija / Otpadne vode  
 KOR - Krištenje  
 PV - Pitka voda  
 PR - Pročišćenje vode

*Dijagram cirkulacije vode u resortu*

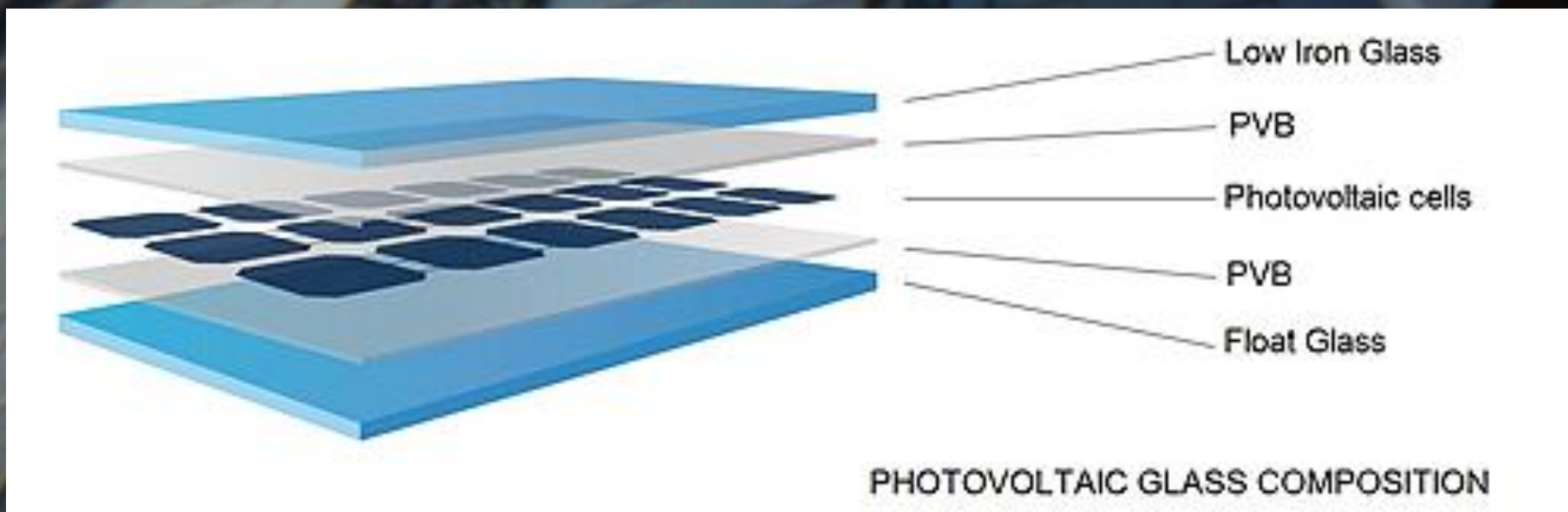


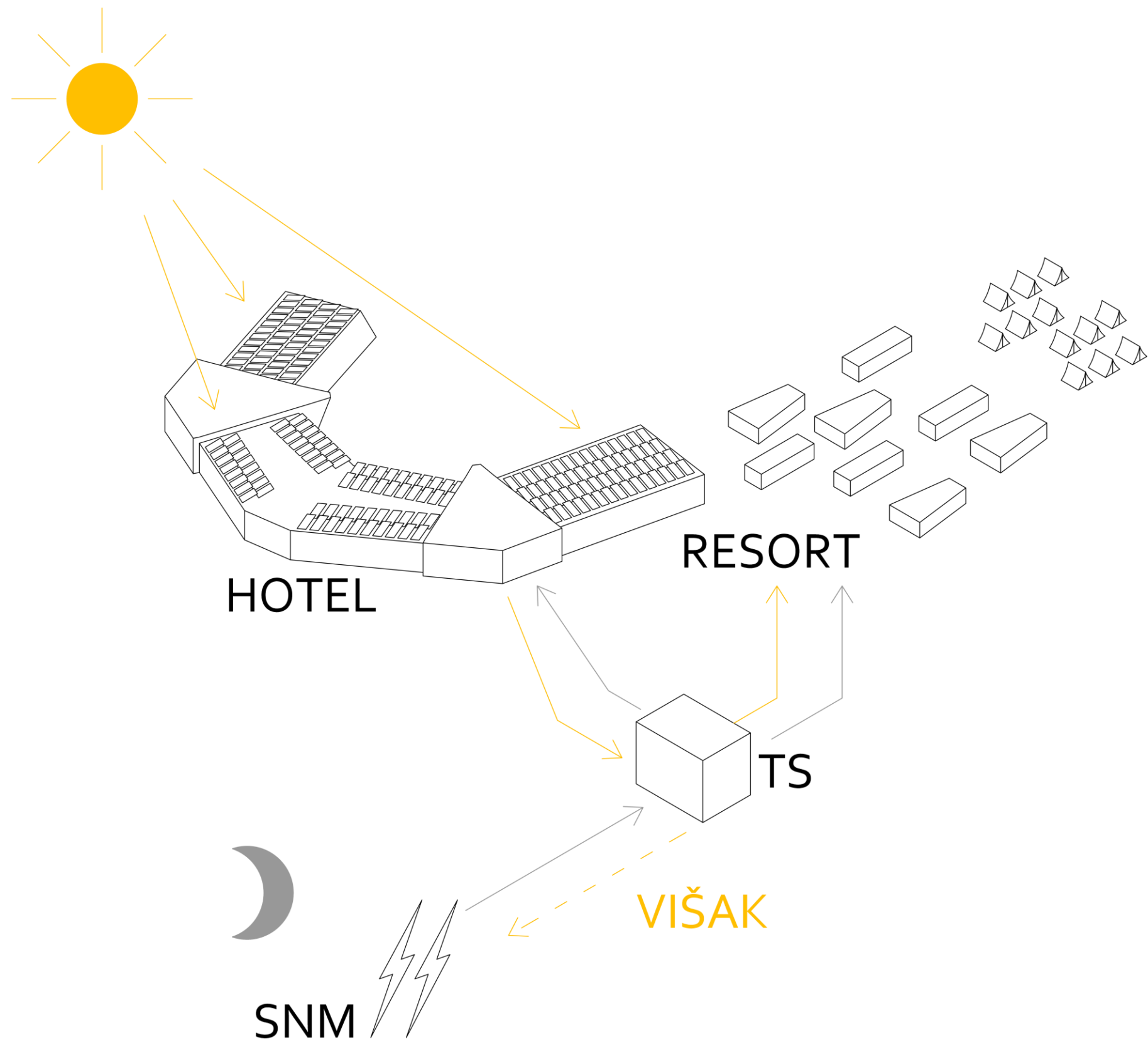
Mjesec	Broj dana	Sunčeva radijacija (kWh/m <sup>2</sup> /day)	Sunčeva radijacija (kWh/m <sup>2</sup> /month)	Proizvedena energije mjesečno (kWh/month)
Siječanj	31	2,58	79,98	45 627,97
Veljača	28	3,83	107,24	61 732,27
Ožujak	31	4,6	142,6	79 743,29
Travanj	30	5,57	167,1	91 245,11
Svibanj	31	6,75	209,25	110 142,61
Lipanj	30	7,35	220,5	114 340,67
Srpanj	31	7,72	239,32	122 719,90
Kolovoz	31	7,33	227,23	115 924,80
Rujan	30	6,05	181,5	93 111,83
Listopad	31	4,23	131,13	71 032,30
Studeni	30	3,01	90,3	50 154,12
Prosinac	31	2,55	79,05	44 225,13
<b>Ukupno</b>	<b>365</b>	<b>5,13</b>	<b>1872,45</b>	<b>1 000 000</b>

Tablica insolacije i proizvodnje električne energije



Graf usporedbe insolacije i proizvodnje električne energije























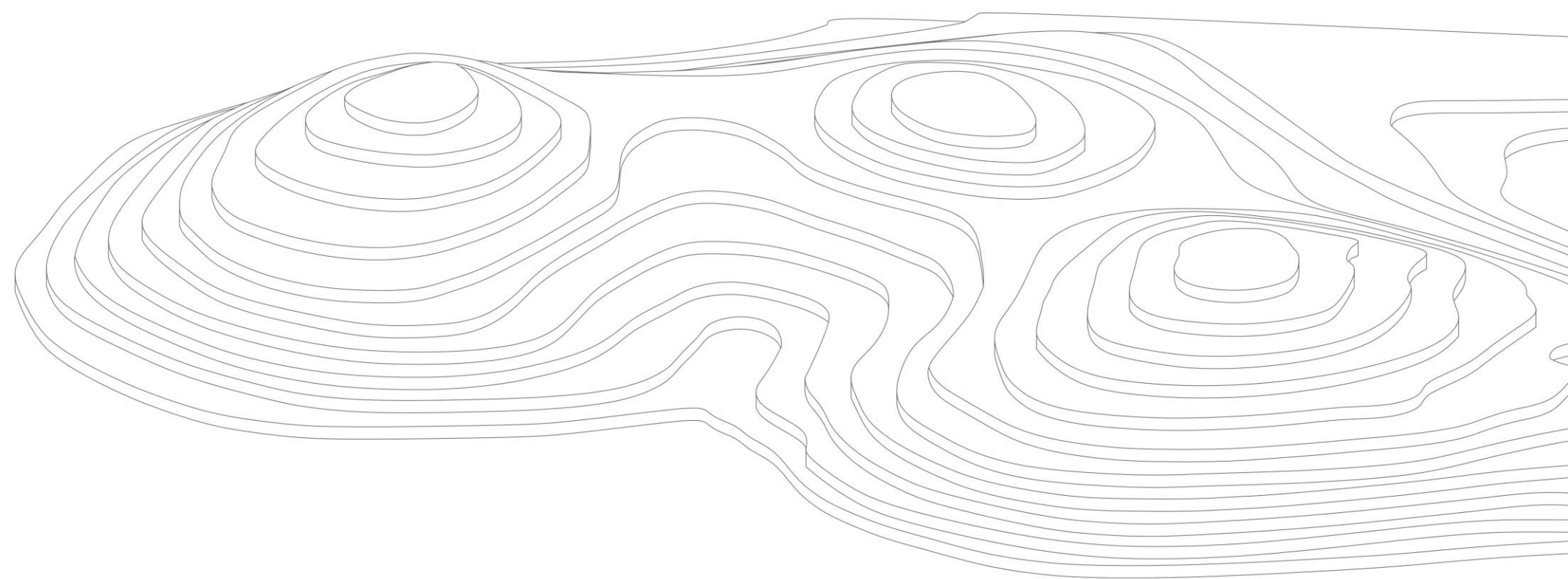


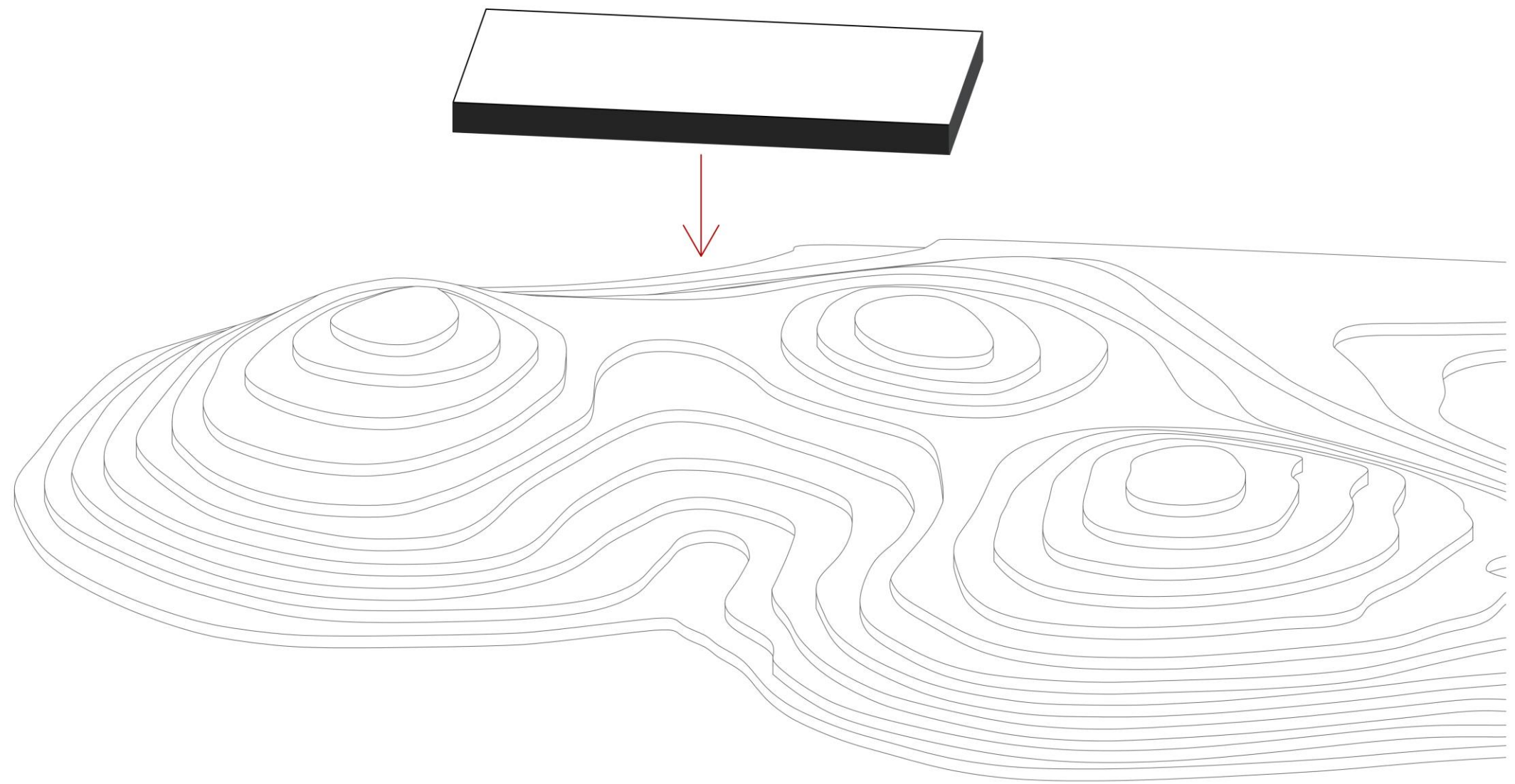


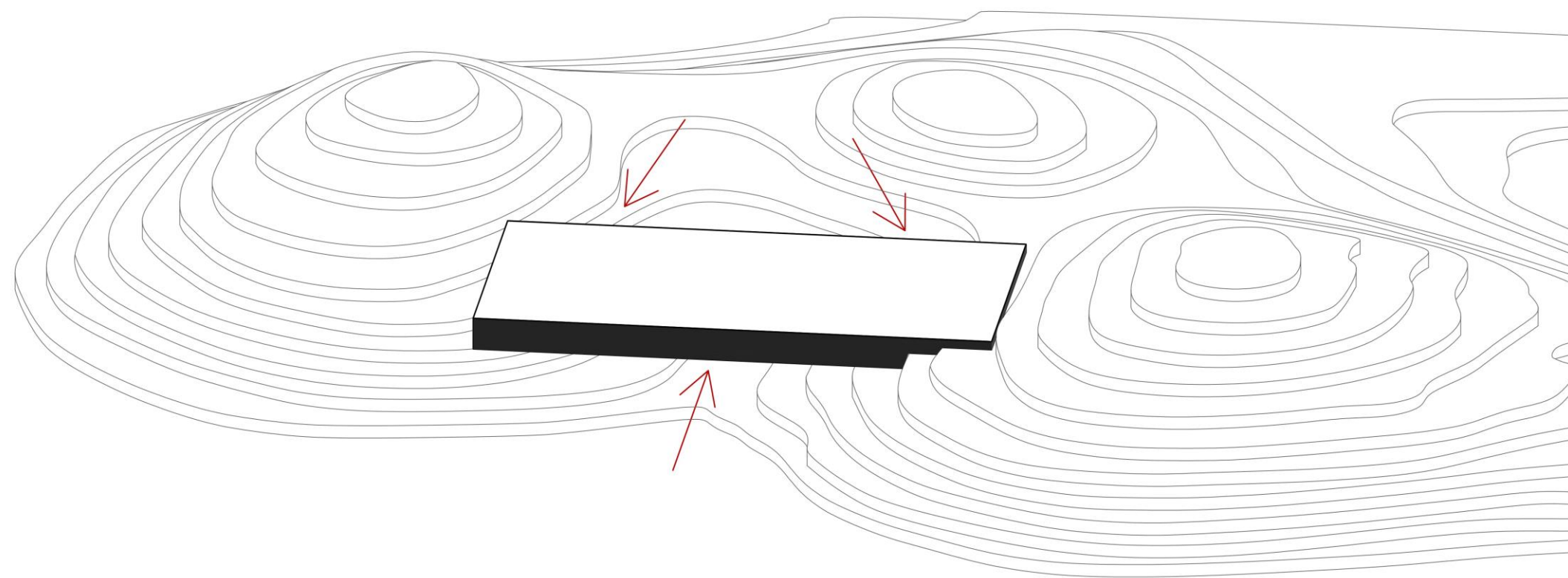


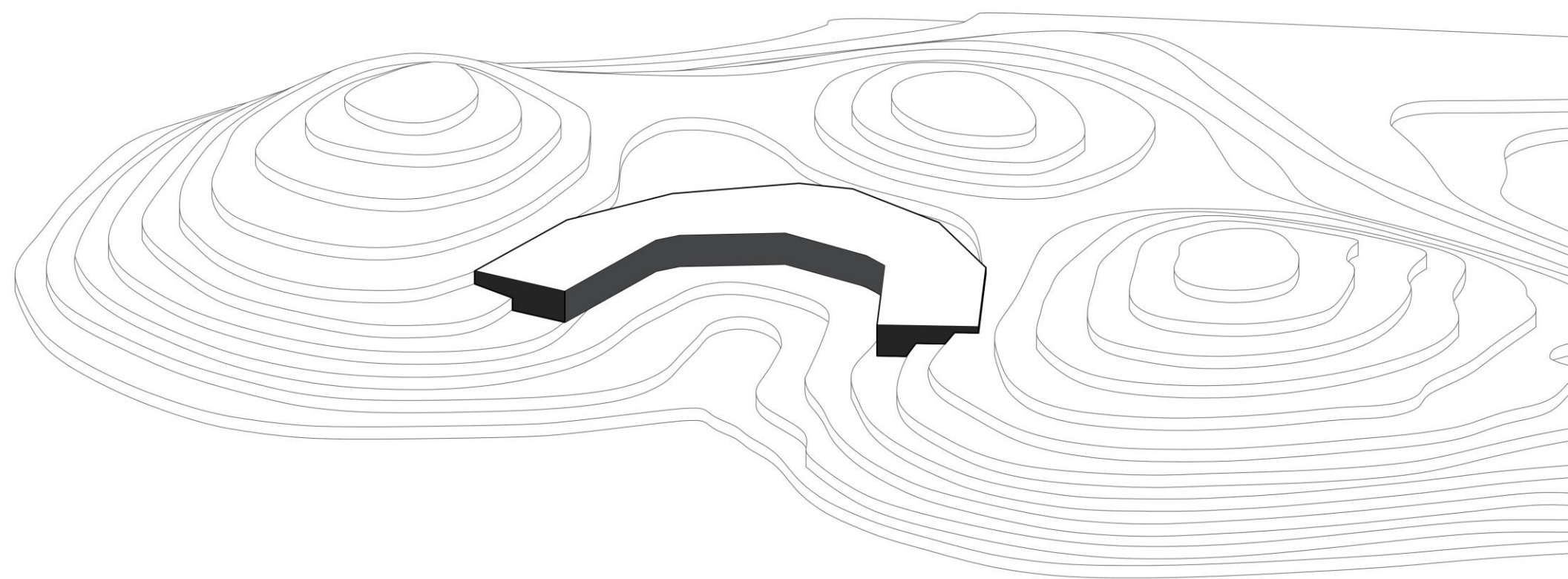
**KONCEPT**

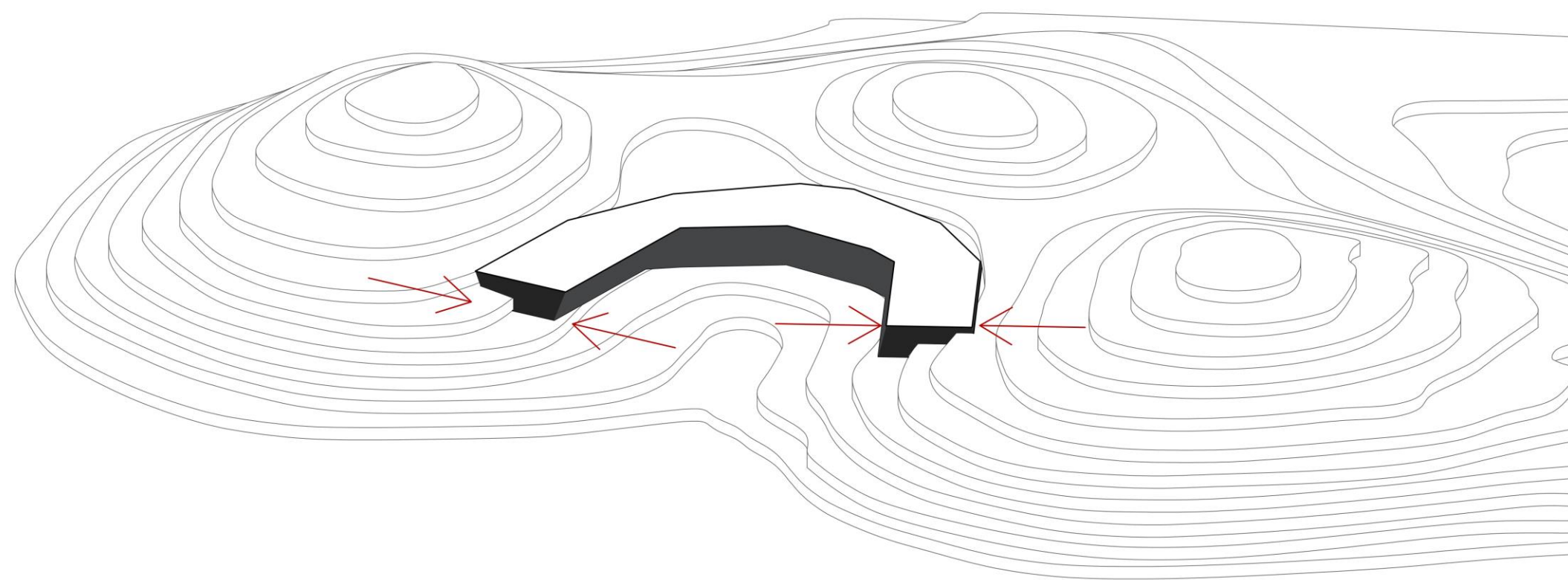


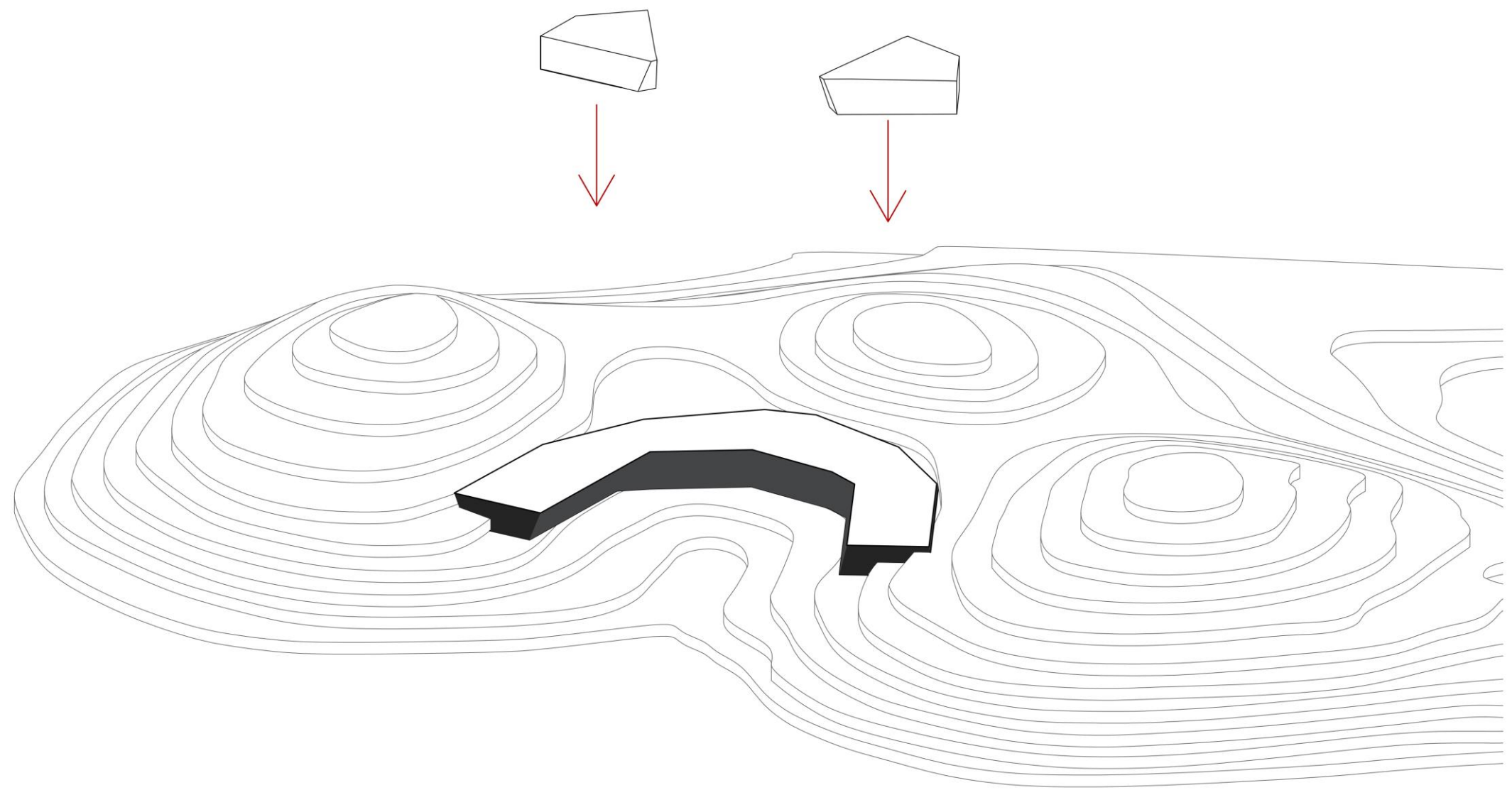


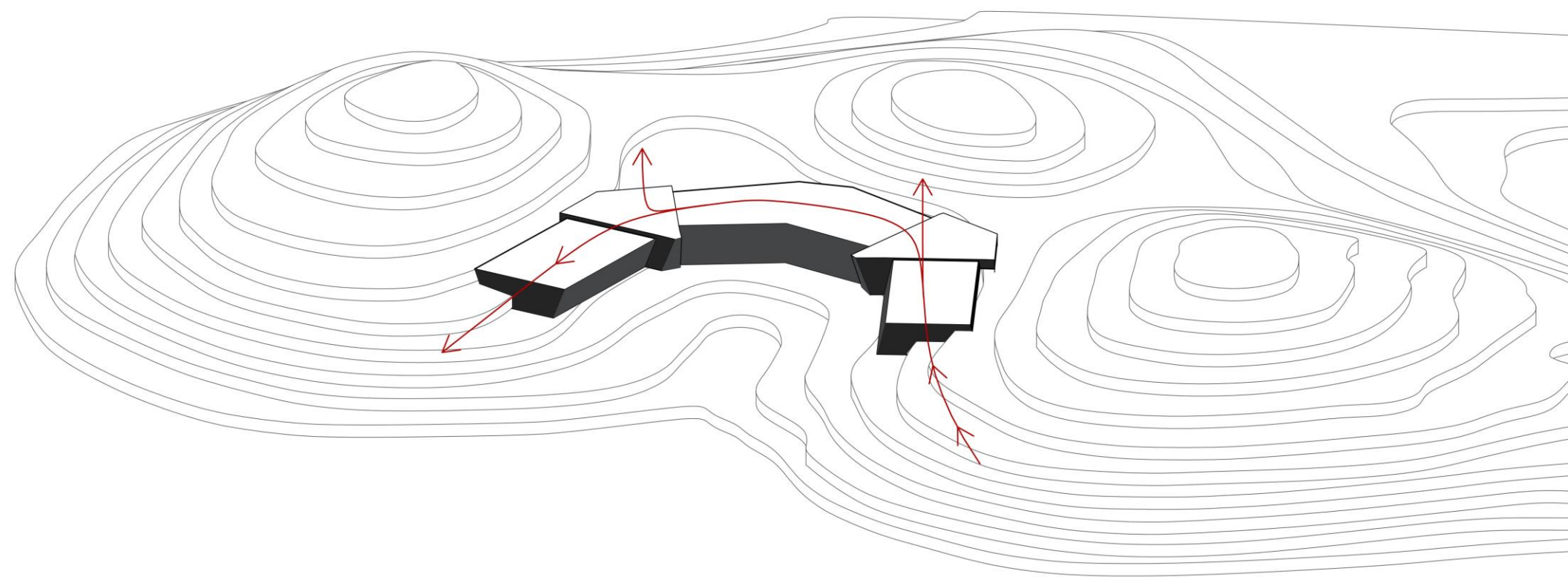


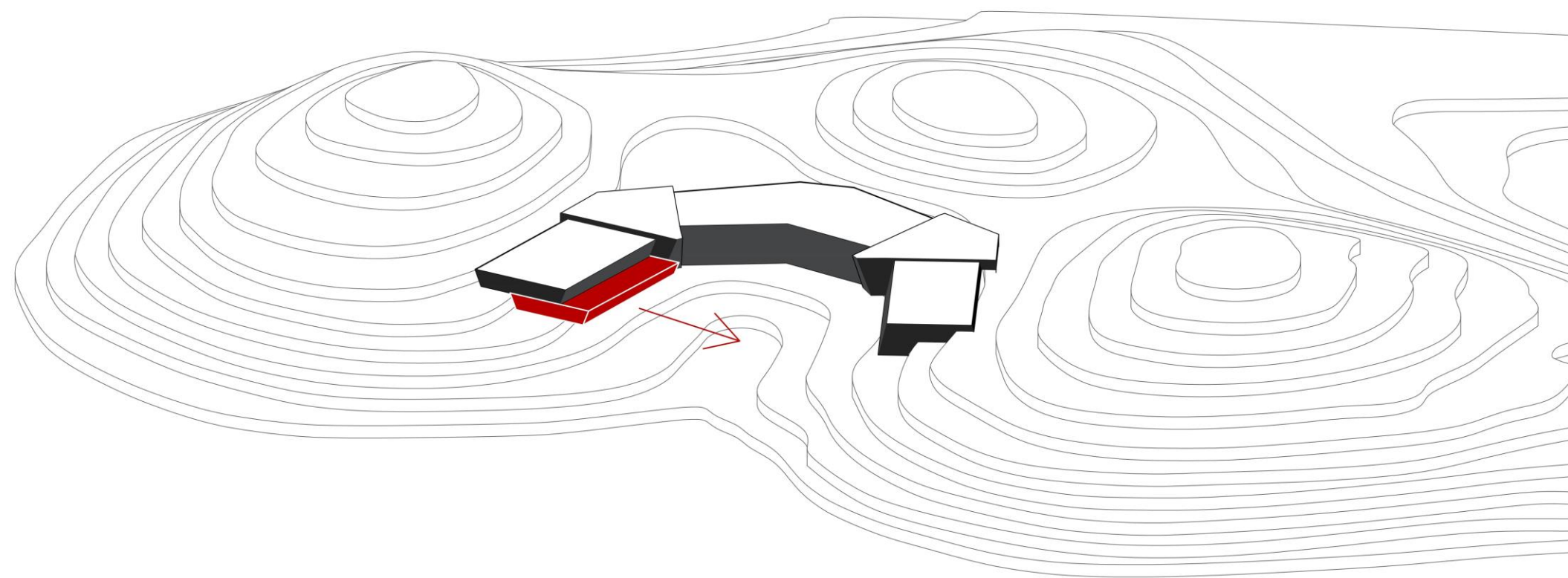




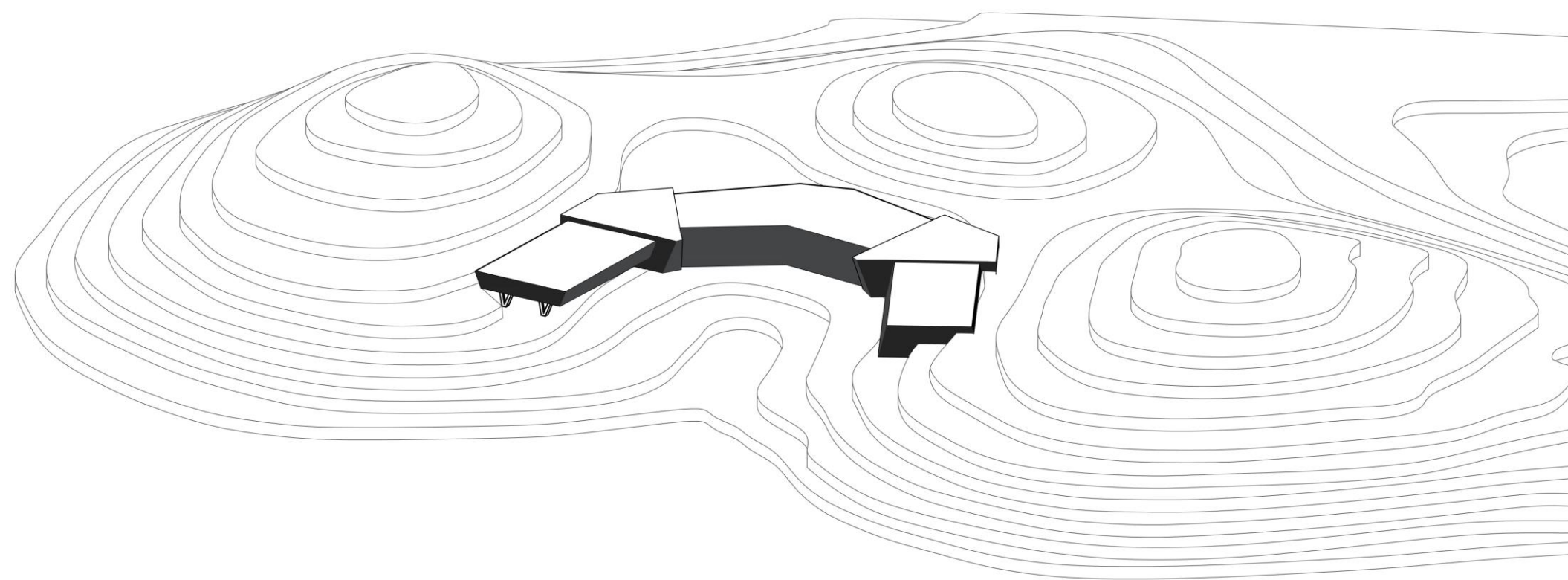


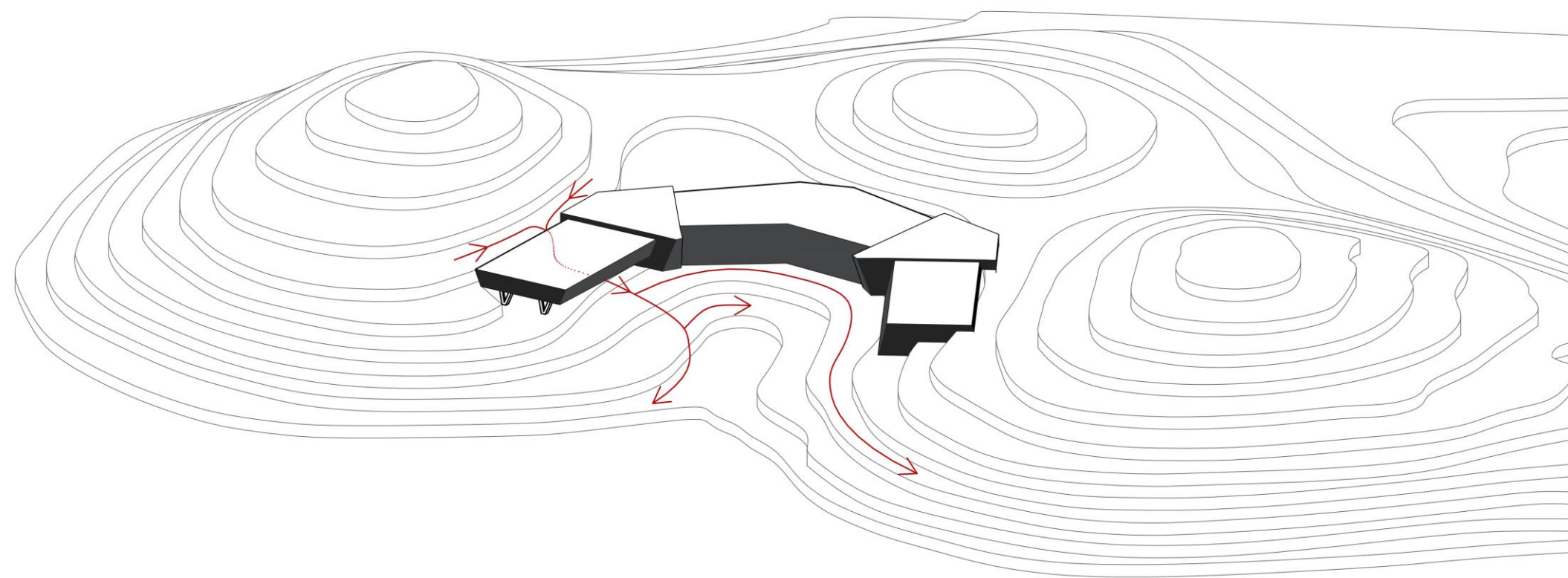


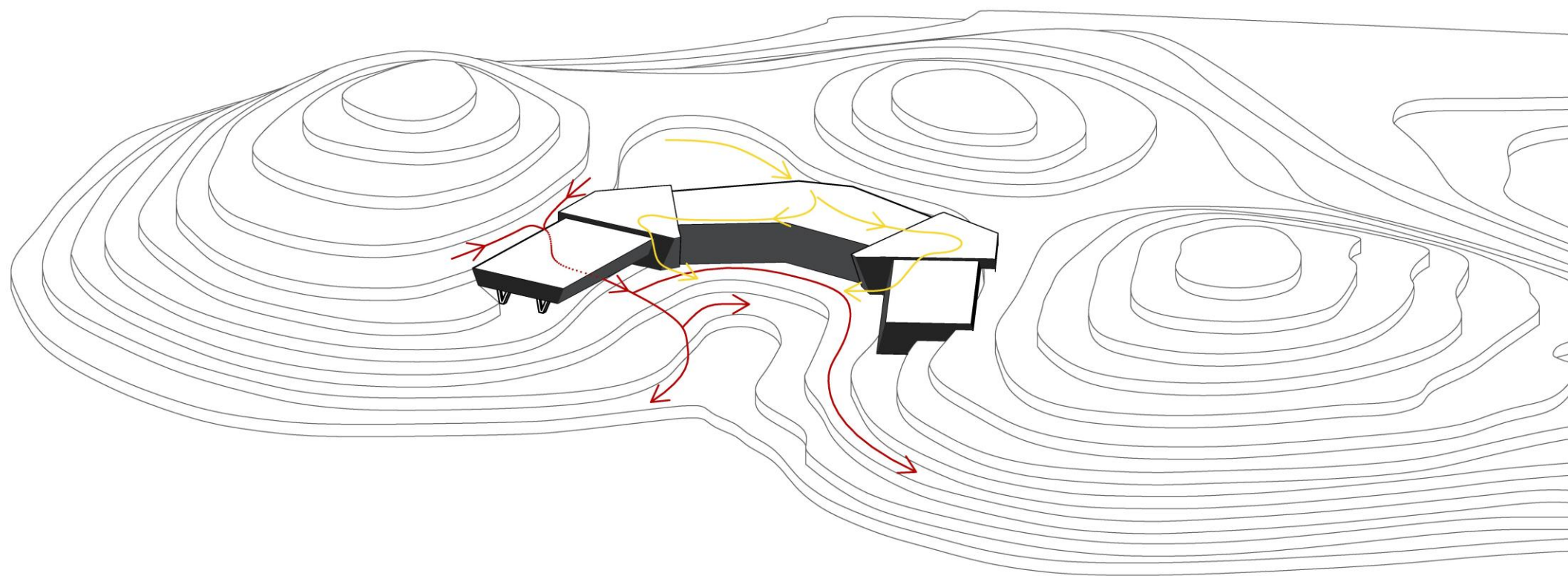


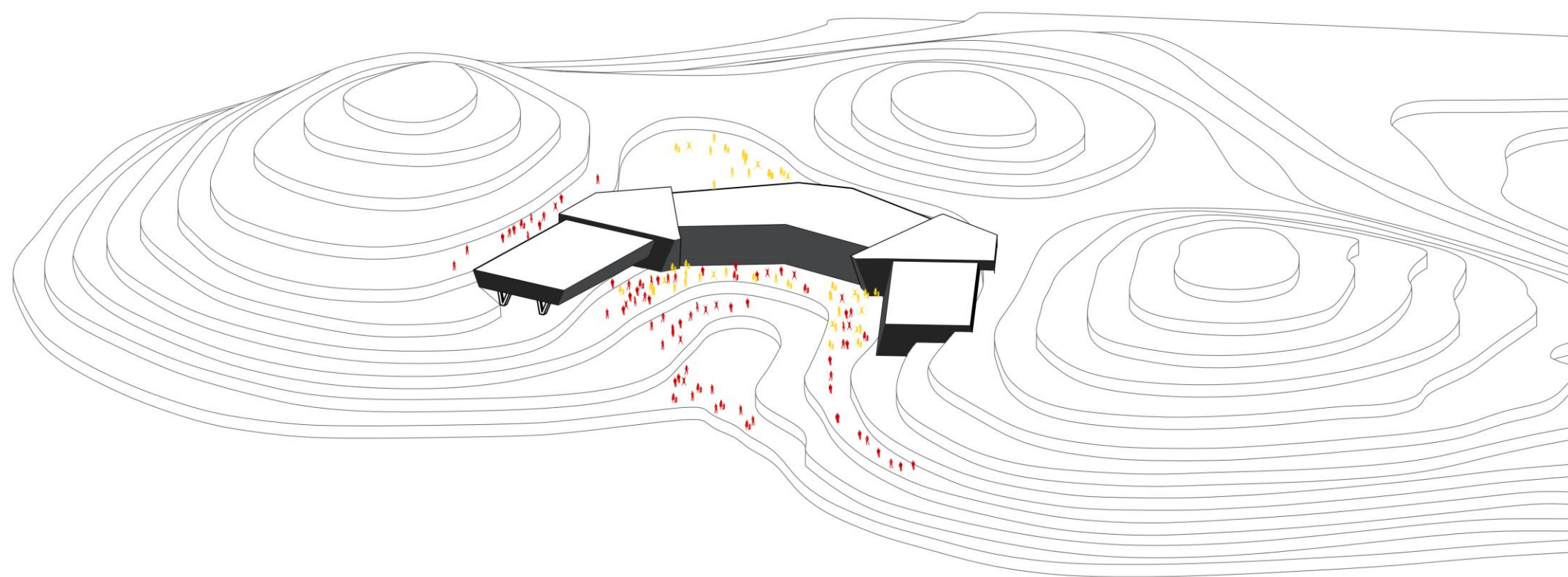


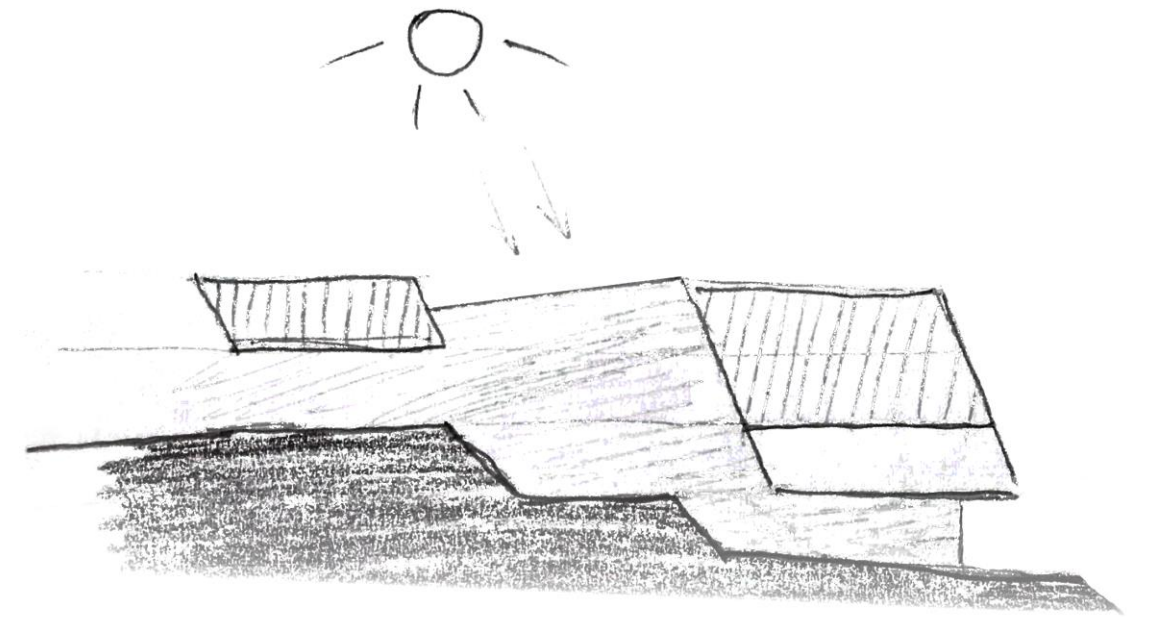
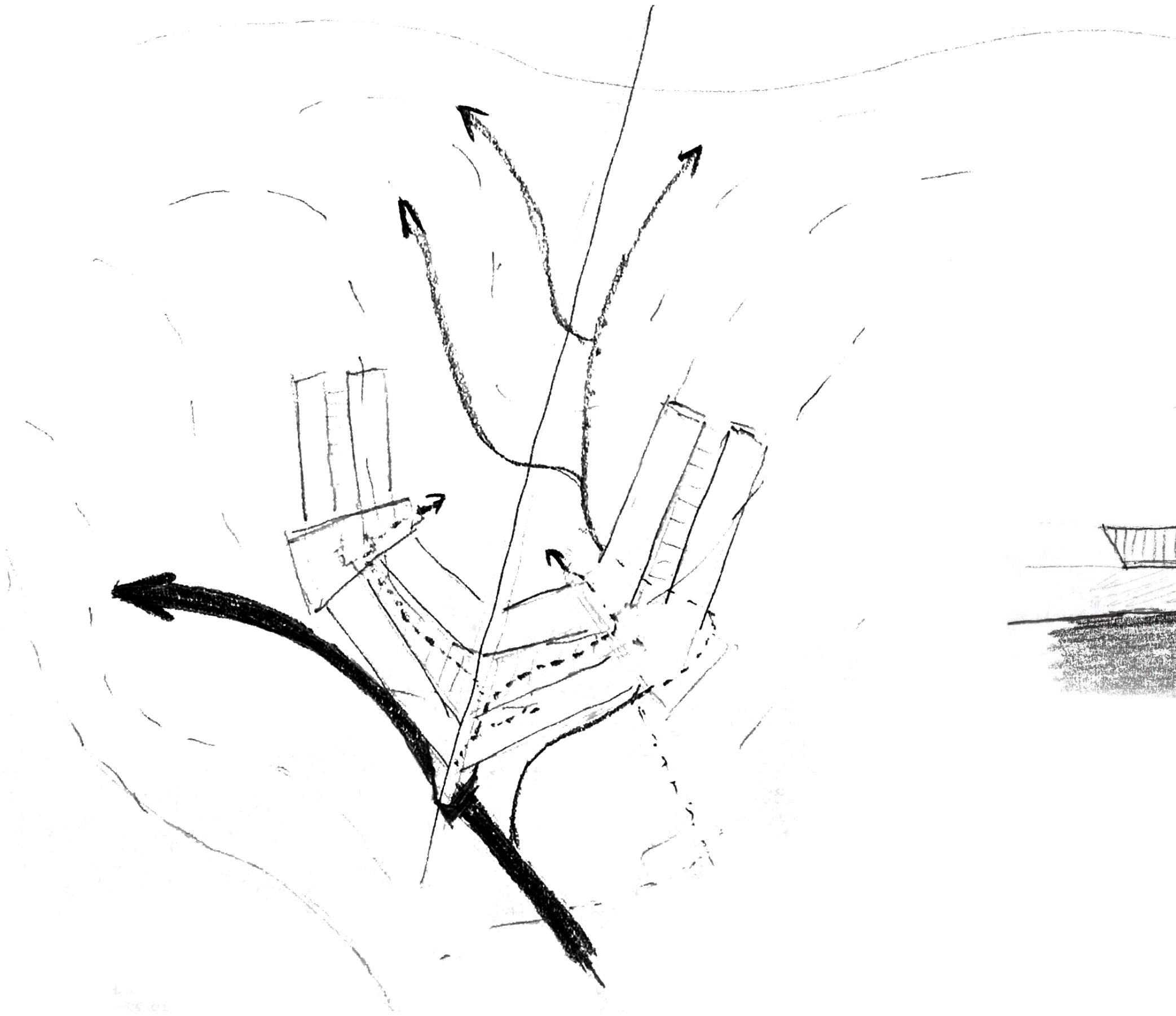


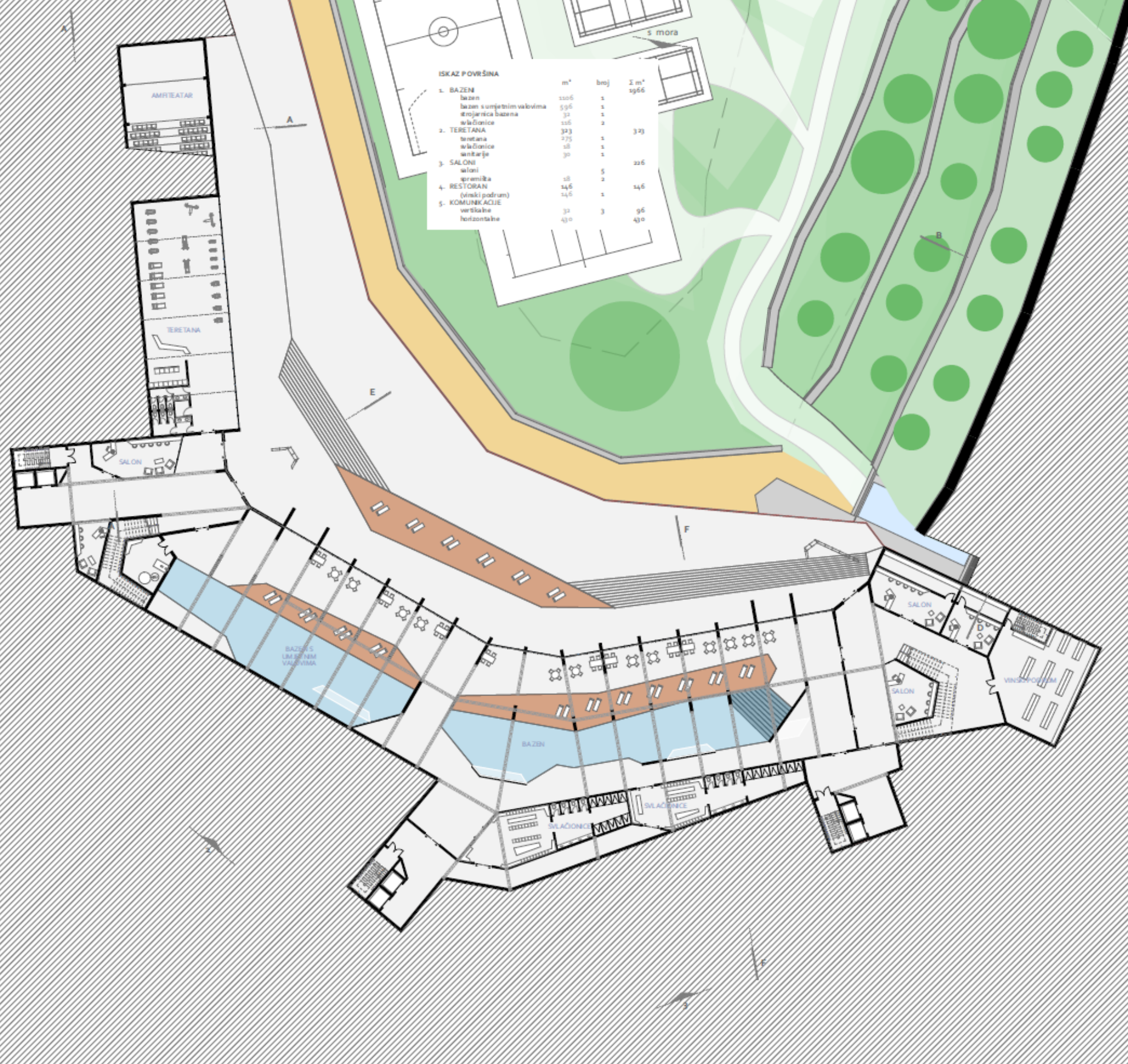






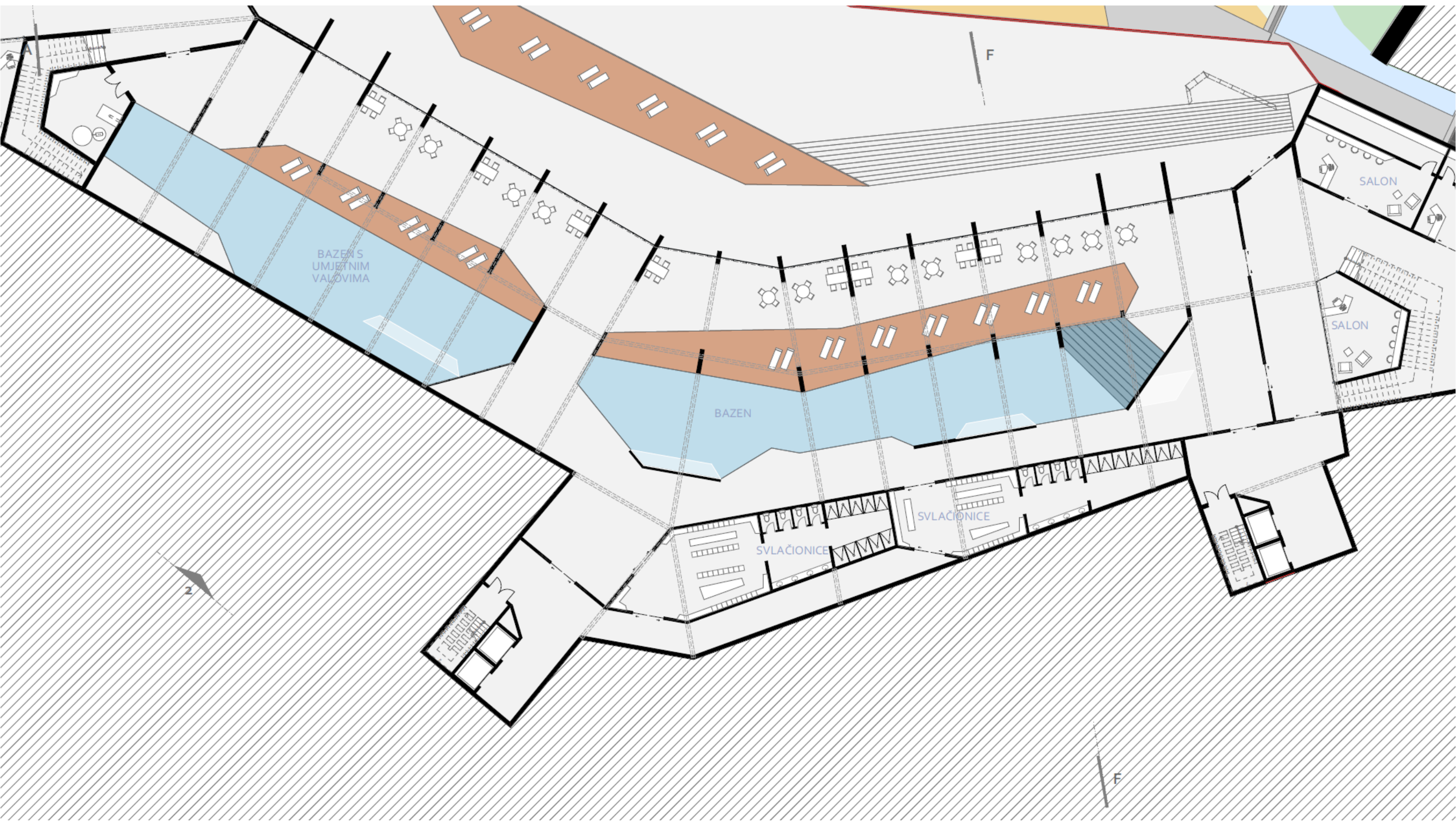






ISKAZ POVRŠINA

	m <sup>2</sup>	broj	Σ m <sup>2</sup>
1. BAZEN			1966
bazen	1106	1	
bazen s sunjačnim vrbama	596	1	
stojanica bazena	32	1	
slačionice	116	2	
2. TERETANA	323		323
teretana	275	1	
slačionice	18	1	
starije	30	1	
3. SALONI			226
salon		5	
priručnik	18	2	
4. RESTORAN	146		146
(vinski podrum)	146	1	
5. KOMUNIKACIJE			96
vertikalne	32	3	
horizontalne	430		430



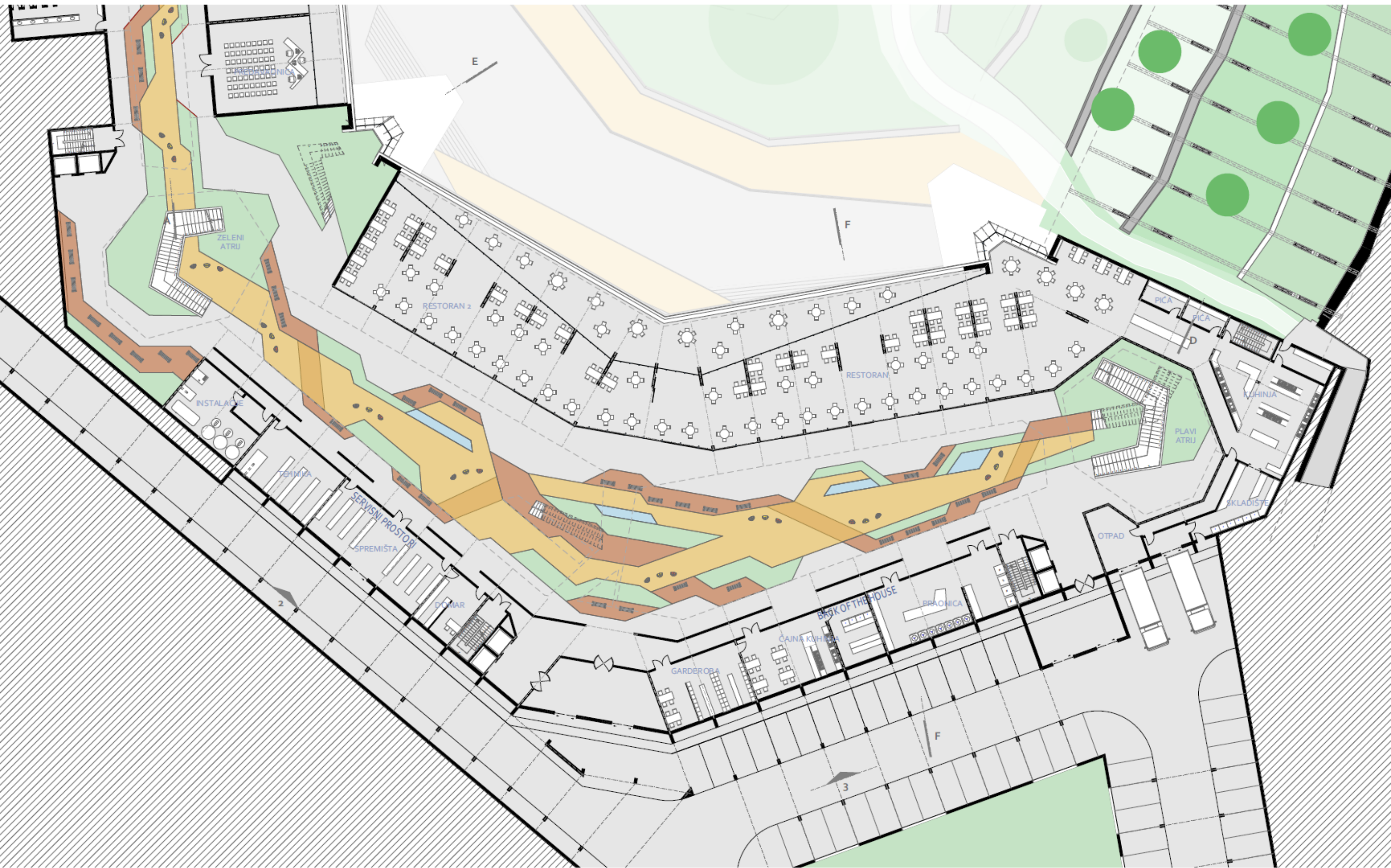


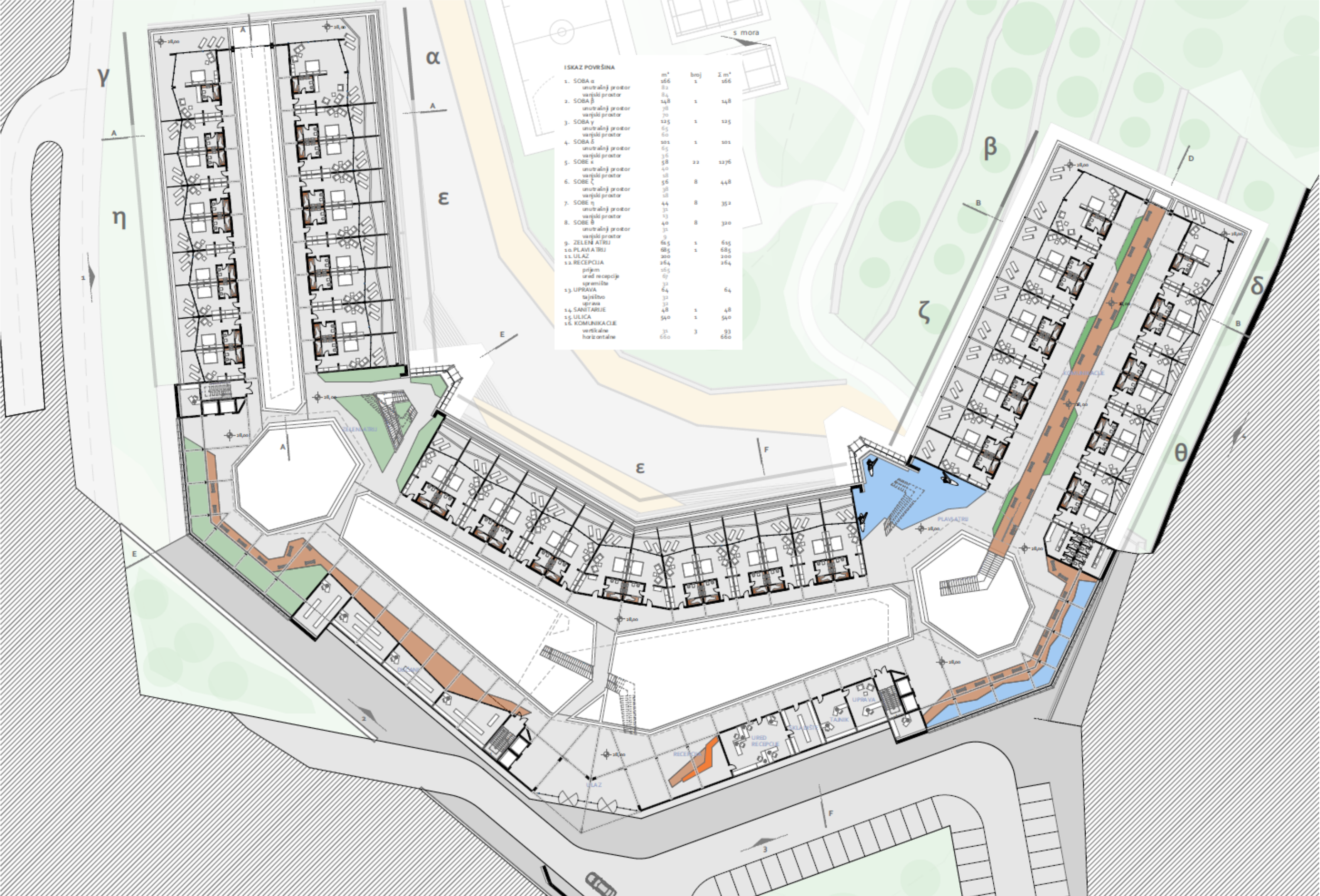
**ISKAZ POVRŠINA**

	m <sup>2</sup>	broj	Σ m <sup>2</sup>
<b>1. KONGRESNI CENTAR</b>			920
amfiteatar	372	1	
sala za sastanke	54	3	
predavaonica	108	2	
kongresni umid	80	2	
<b>2. SERVISNI PROSTORI</b>			264
instalacije	66	1	
tehnička	66	1	
spremište	100	1	
domar	32	1	
<b>3. BACK OF THE HOUSE</b>			296
gledalnica	66	1	
čajna kuhinja	100	1	
pronica	100	1	
otpad	30	1	
<b>4. RESTORAN</b>			1194 (1340)
skladište	68	1	
skladište pića	11	3	
(vinski podrum)	13(100)	1	
kuhinja	180	1	
restoran	988	1	
<b>5. ZELENI ATRIJ</b>	312	1	765
<b>6. PLAVI ATRIJ</b>	270	1	270
<b>7. SANITARIJ</b>	94	1	94
<b>8. ULICA</b>	1830		1830
<b>9. KOMUNIKACIJE</b>			
vertikalne	32	3	96
horizontalne	532		532









**ISKAZ POVRŠINA**

	m <sup>2</sup>	broj	Σ m <sup>2</sup>
1. SOBA α	166	1	166
unutrajnj prostor	82		
vanjski prostor	84		
2. SOBA β	148	1	148
unutrajnj prostor	78		
vanjski prostor	70		
3. SOBA γ	125	1	125
unutrajnj prostor	65		
vanjski prostor	60		
4. SOBA δ	101	1	101
unutrajnj prostor	55		
vanjski prostor	46		
5. SOBE ε	38	22	1276
unutrajnj prostor	40		
vanjski prostor	18		
6. SOBE ζ	56	8	448
unutrajnj prostor	38		
vanjski prostor	18		
7. SOBE η	44	8	352
unutrajnj prostor	32		
vanjski prostor	12		
8. SOBE θ	40	8	320
unutrajnj prostor	32		
vanjski prostor	8		
9. ZELEN ATRIJ	615	1	615
10. PLAVAJIRIS	685	1	685
11. ULAZ	200		200
12. RECEPCIJA	264		264
prijem	165		
ured recepcije	99		
spravništvo	32		
13. UPRAVA	64		64
tajništvo	32		
oprema	32		
14. SANITARJE	48	1	48
15. ULICA	540	1	540
16. KOMUNIKACIJE			
vertikalne	32	3	96
horizontalne	650		650



δ

A

θ



32,00

32,00

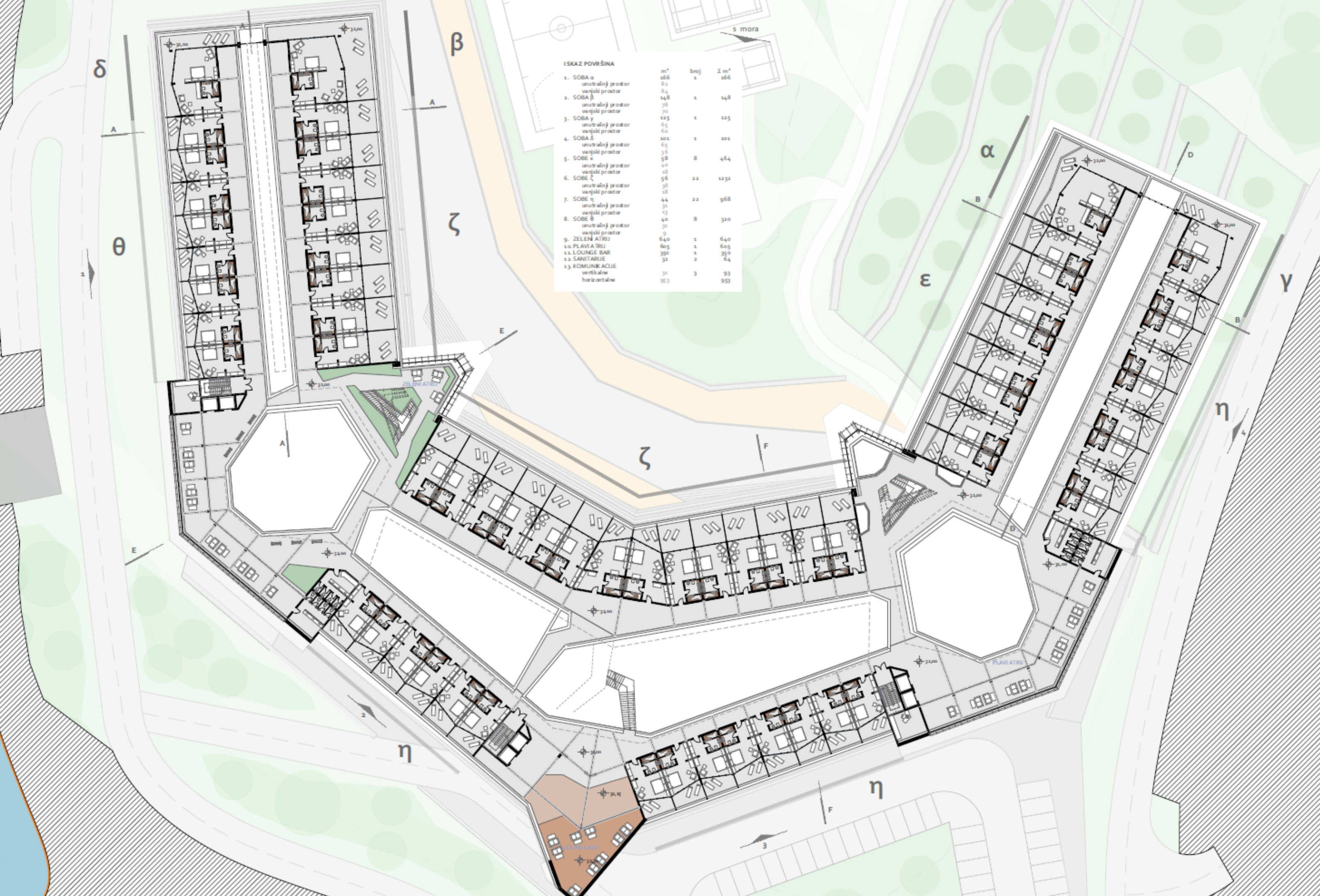
A

A

β

ζ





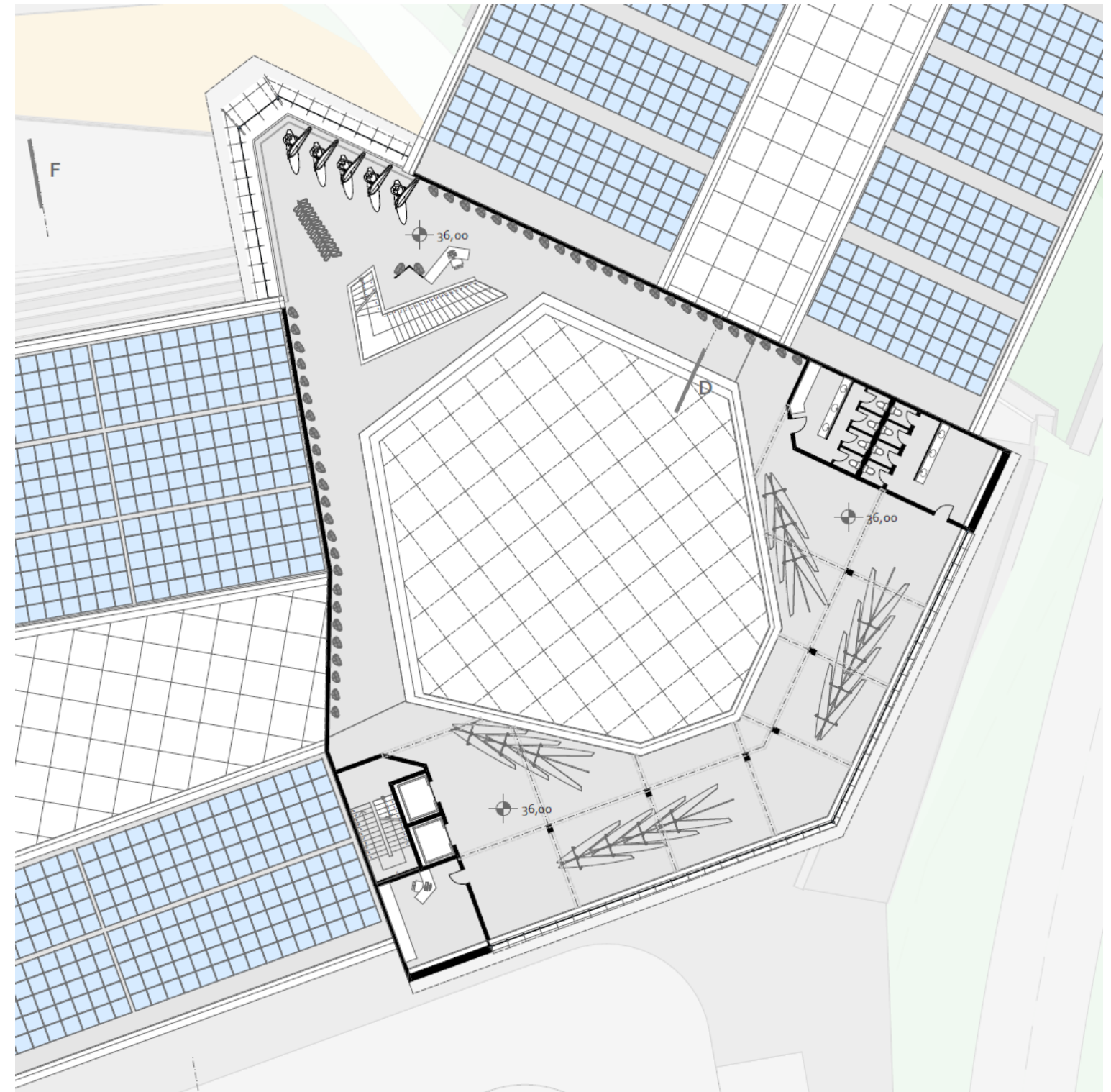
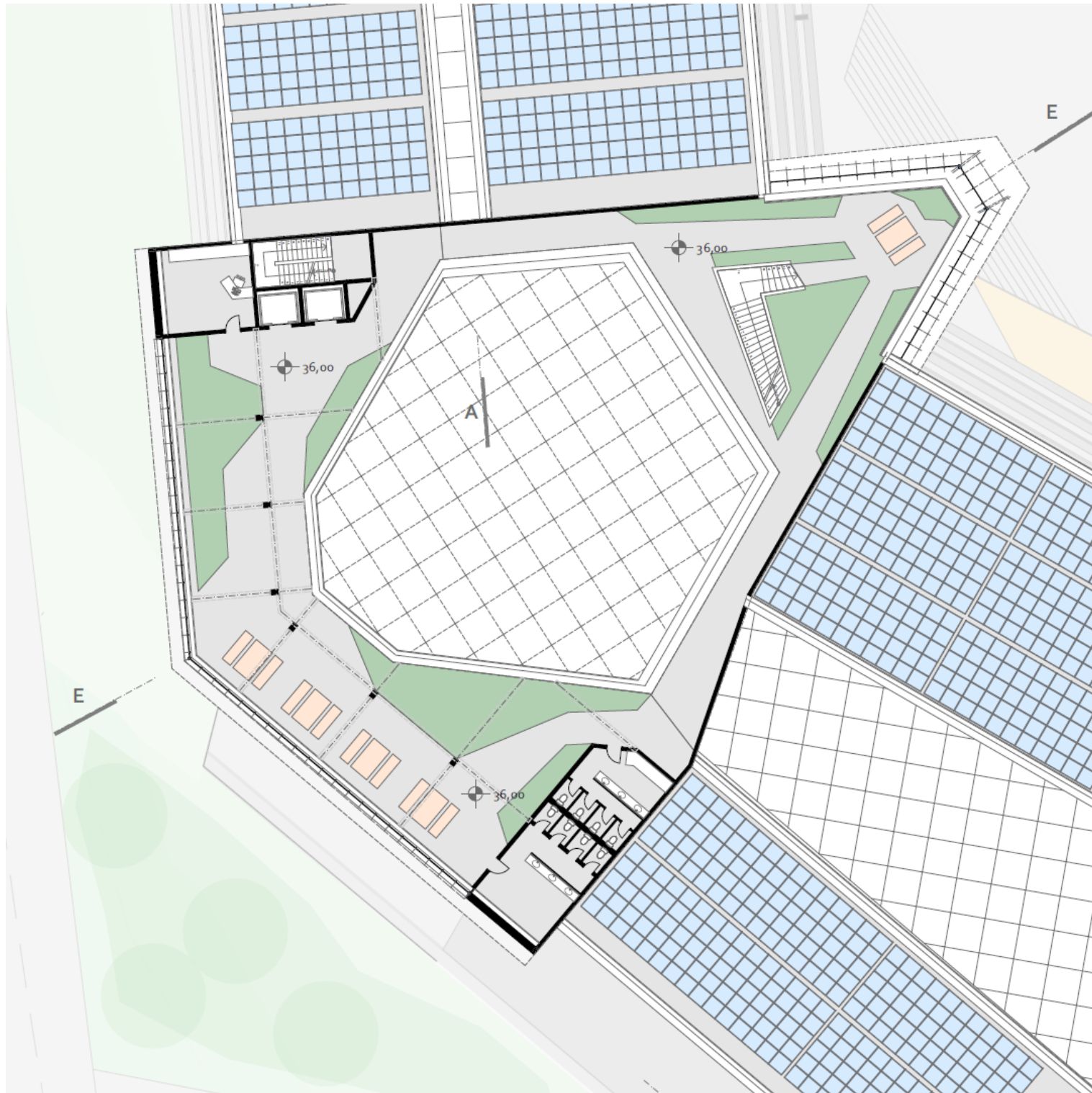
**ISKAZ POVRŠINA**

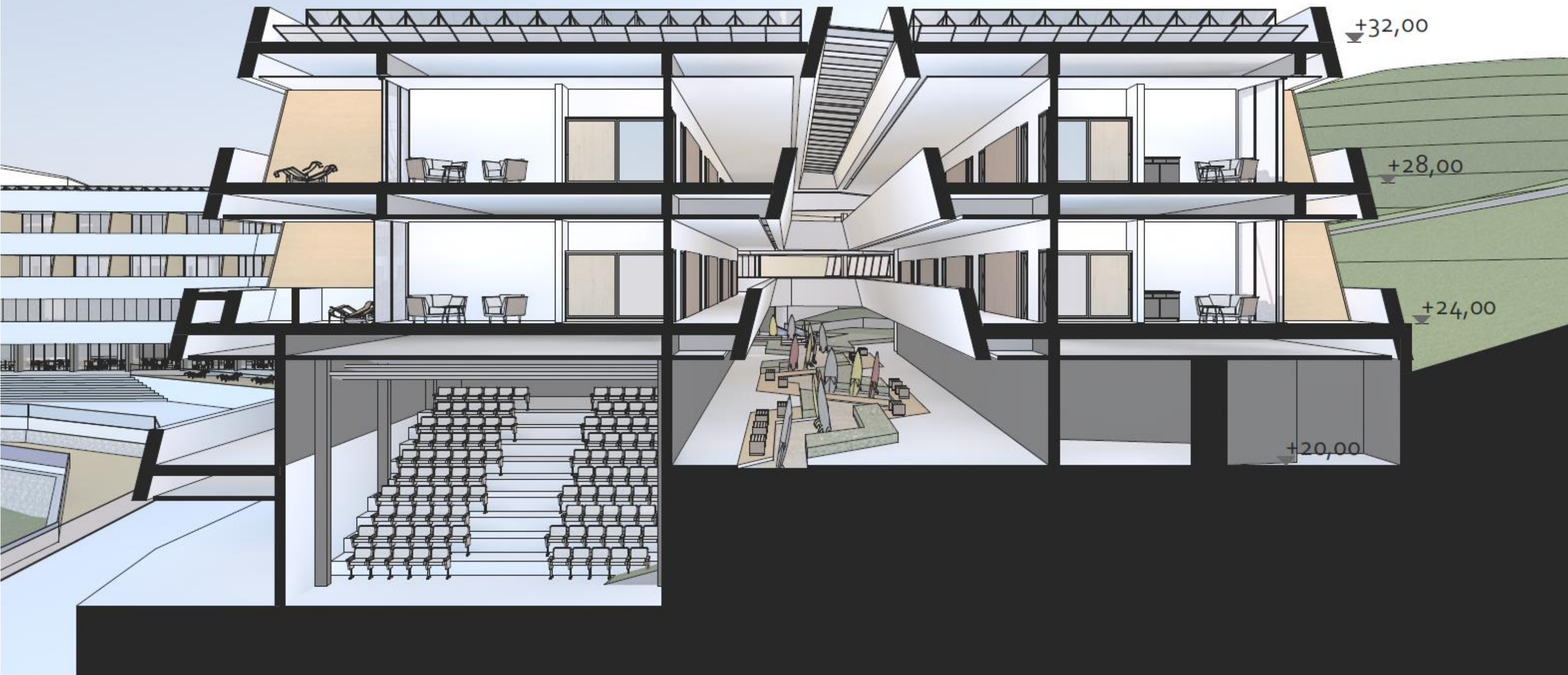
	m <sup>2</sup>	bnj	Σ m <sup>2</sup>
1. SOBA α	166	1	166
unutranj prostor	83		
vanjski prostor	83		
2. SOBA β	148	1	148
unutranj prostor	70		
vanjski prostor	78		
3. SOBA γ	125	1	125
unutranj prostor	63		
vanjski prostor	60		
4. SOBA δ	101	1	101
unutranj prostor	65		
vanjski prostor	36		
5. SOBE ε	464	8	464
unutranj prostor	40		
vanjski prostor	18		
6. SOBE ζ	1232	22	1232
unutranj prostor	38		
vanjski prostor	18		
7. SOBE η	968	22	968
unutranj prostor	31		
vanjski prostor	40		
8. SOBE θ	320	8	320
unutranj prostor	31		
vanjski prostor	9		
9. ZELENI ATRIJ	640	1	640
10. PLAVI ATRIJ	605	1	605
11. LOUNGE BAR	350	1	350
12. SANITARJE	64	2	64
13. KOMUNIKACIJE	93	3	93
vertikalne	31		
horizontalne	62		

ISKAZ POVRŠINA

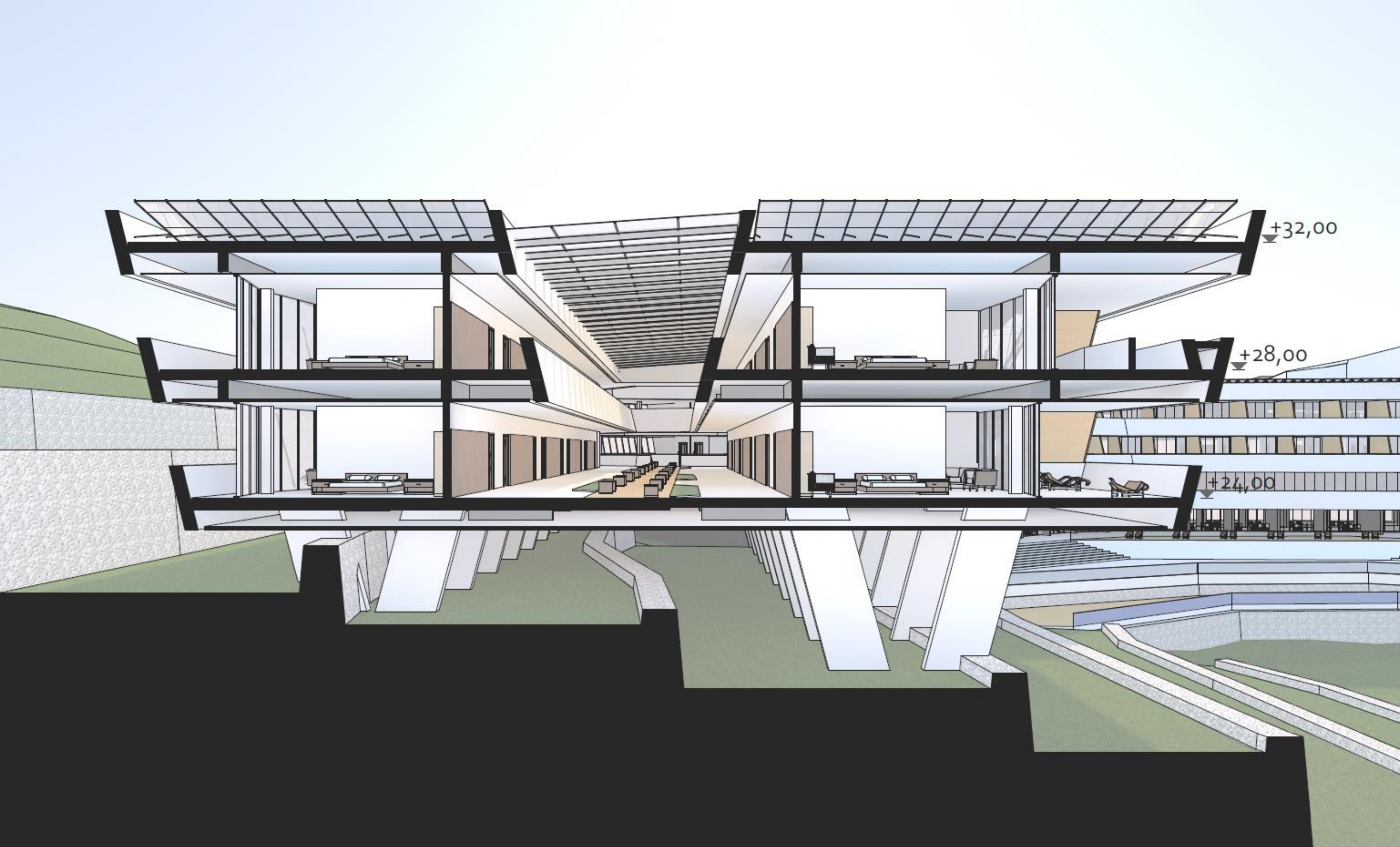
	m <sup>2</sup>	broj	Σ m <sup>2</sup>
1. KROVA FOTONAPONSKIM ČELBAMA	9590		
2. SVJETLARNICE FOTONAPONSKIM STAKLOM	1830		
3. SVJETLARNICE	442		
4. ZELEN ATRIJ PIKNIK KROV	995	1	995
5. PLAVA TRU SURF SHOP	605	1	600
6. SANITARJE	32	2	64
7. KOMUNIKACIJE vertikalne	31	2	62







*Presjek A-A*



**Presjek B-B**



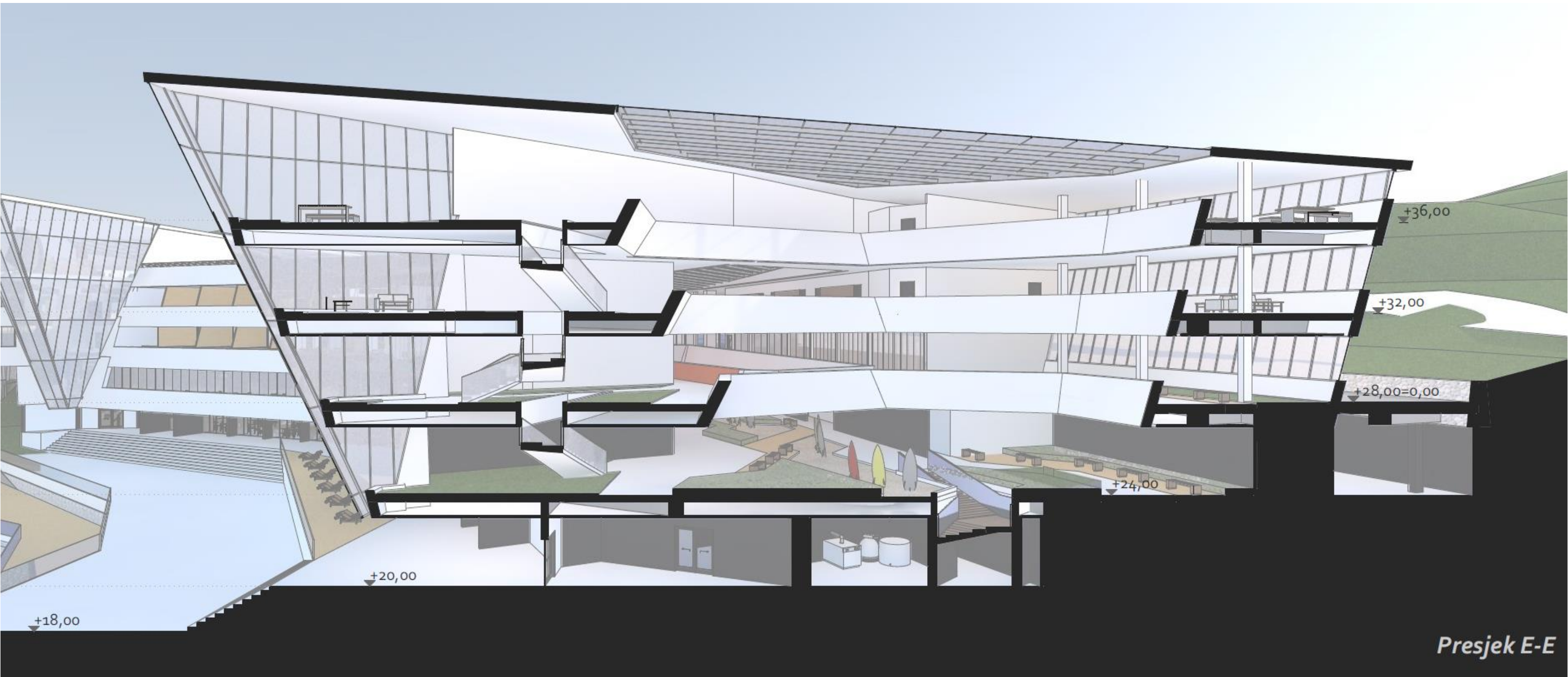
Amfiteatar

Sala za sastanke

Predavaonice

Presjek C-C

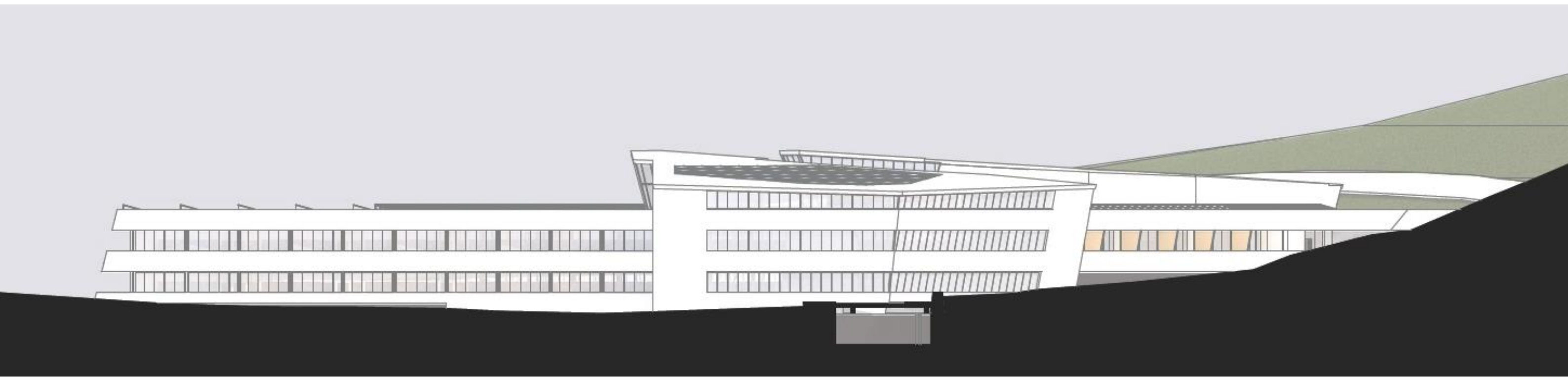




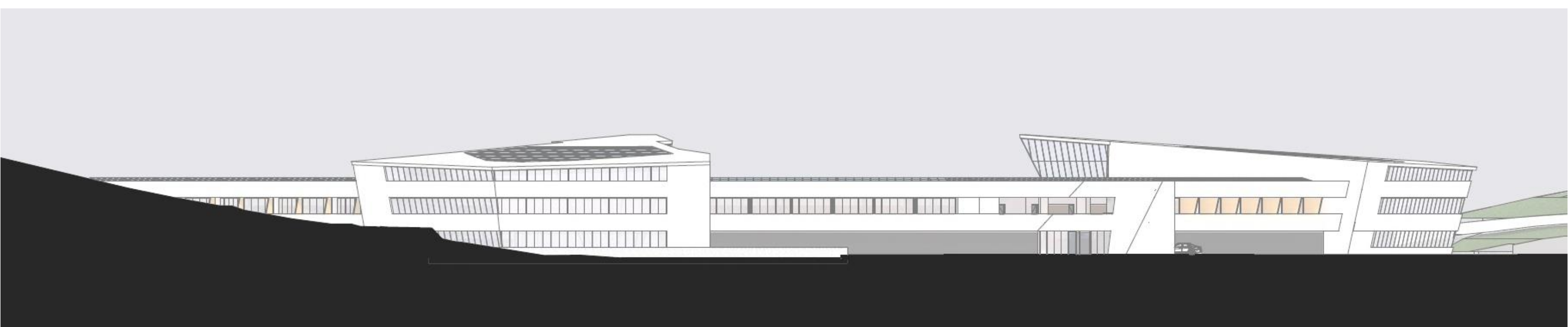
Presjek E-E

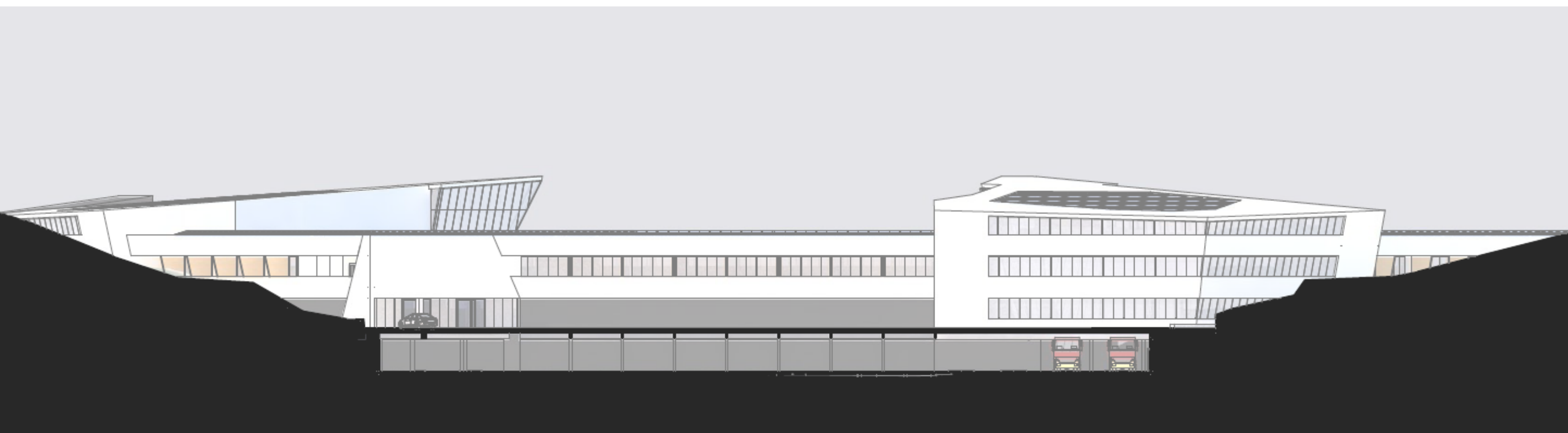


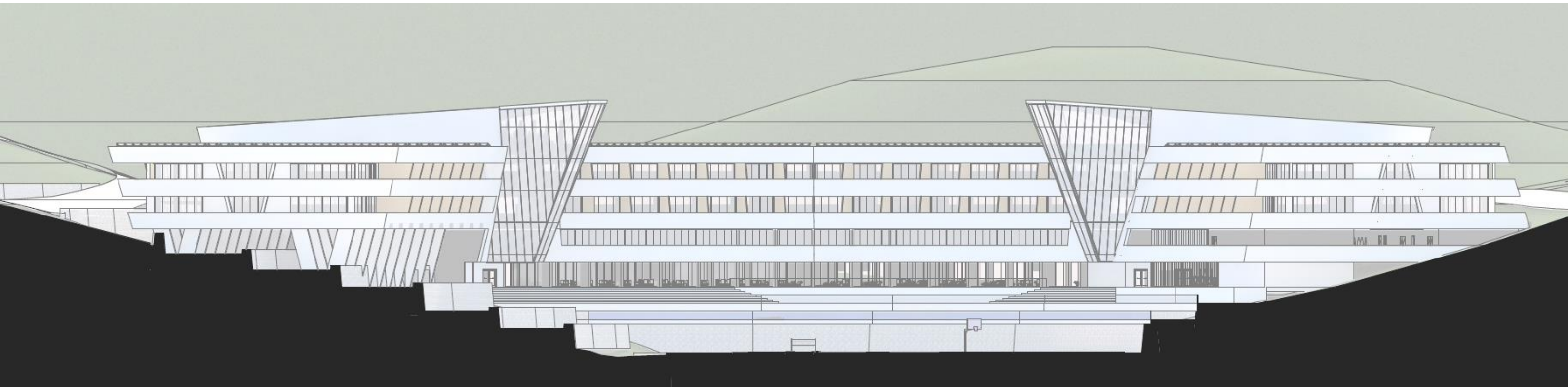
*Presjek F-F*

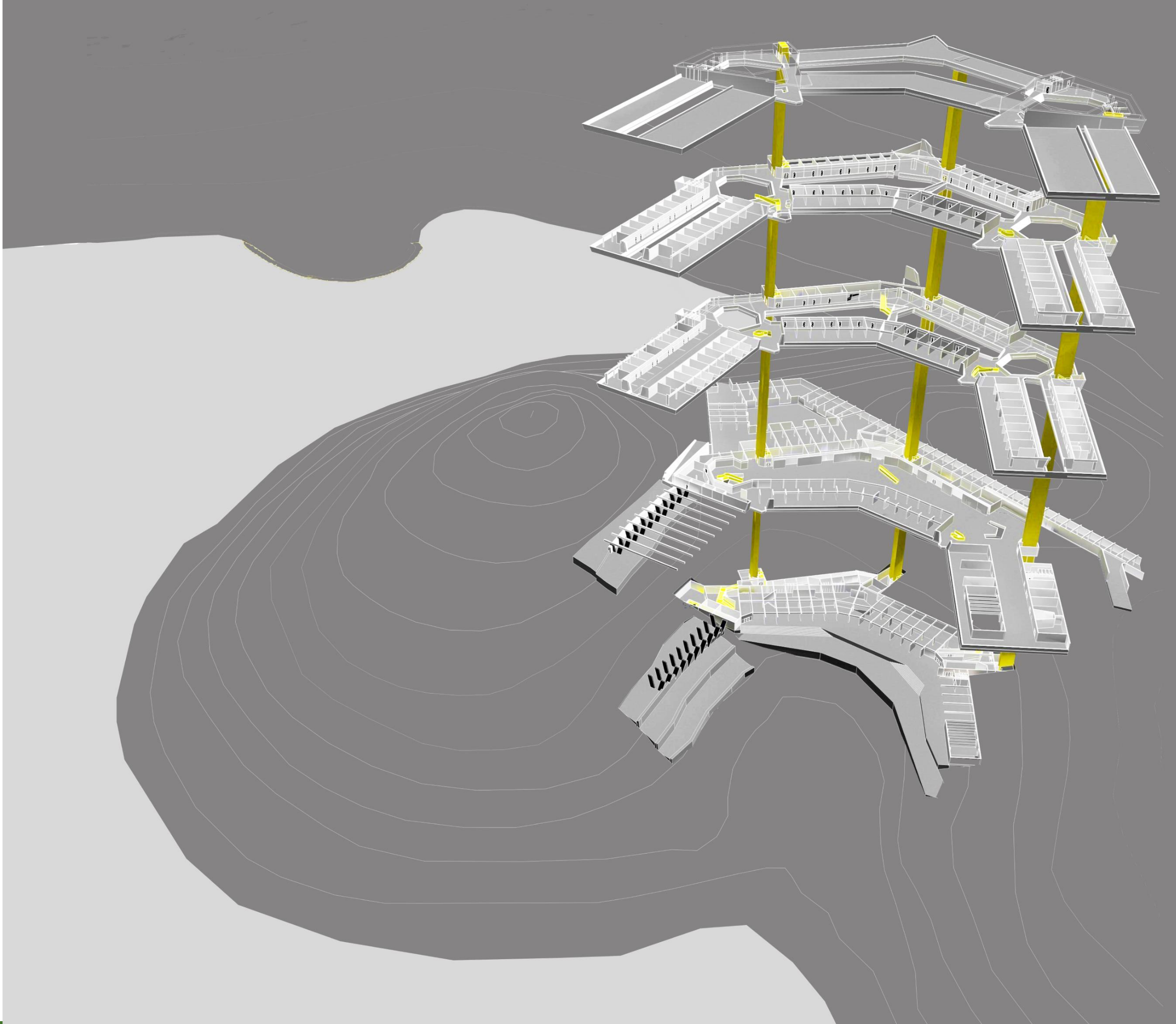


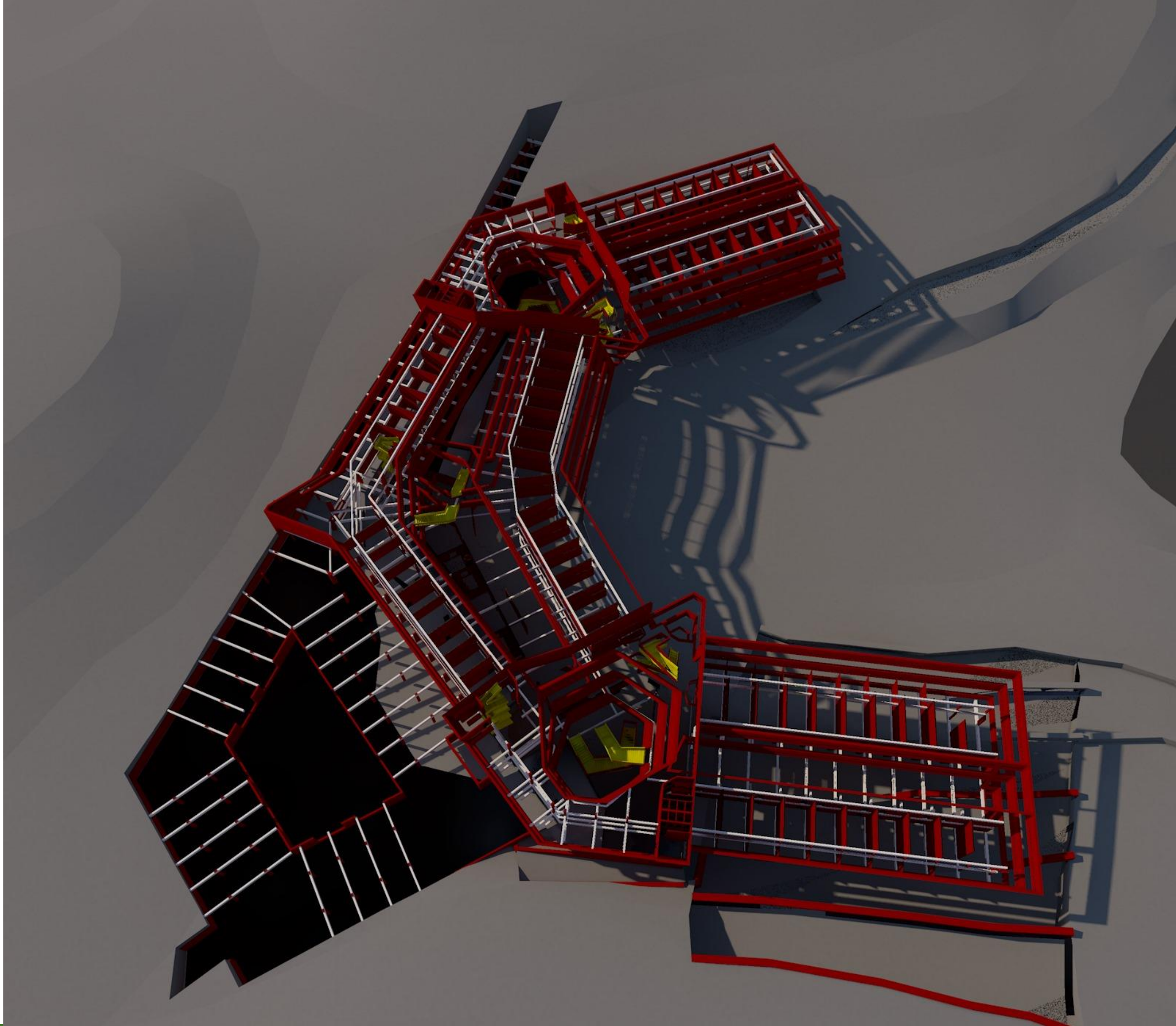








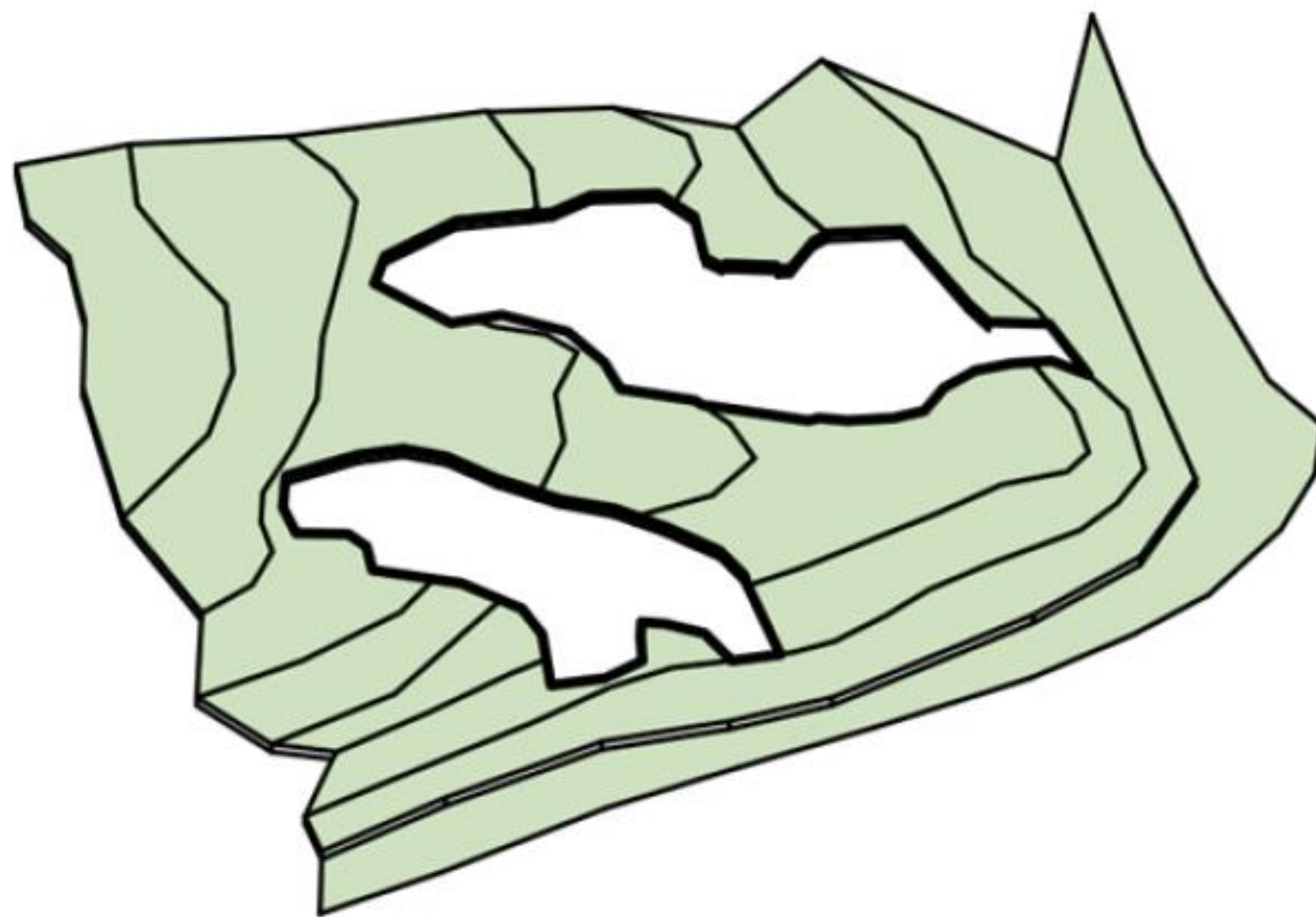




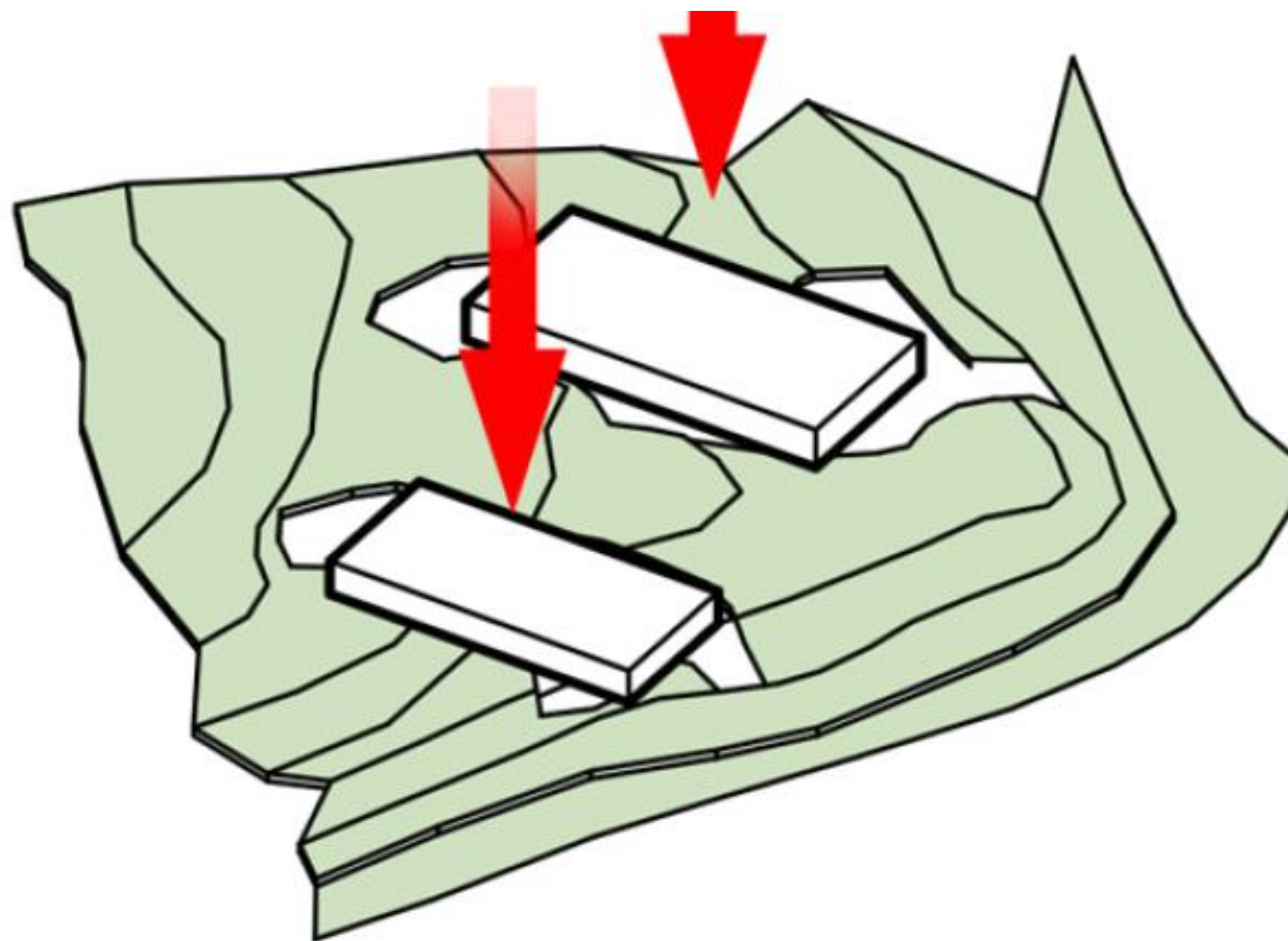


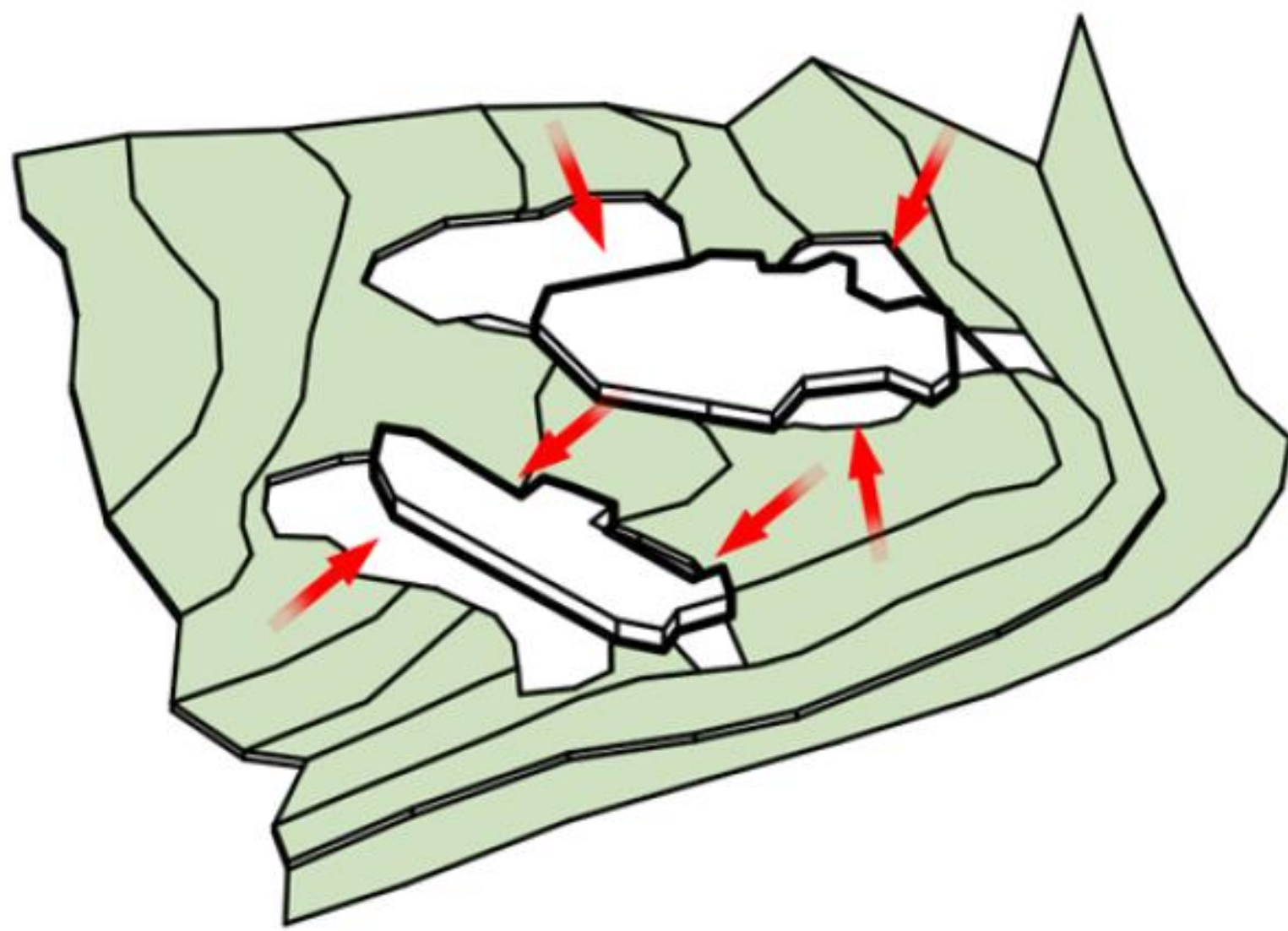
SPA

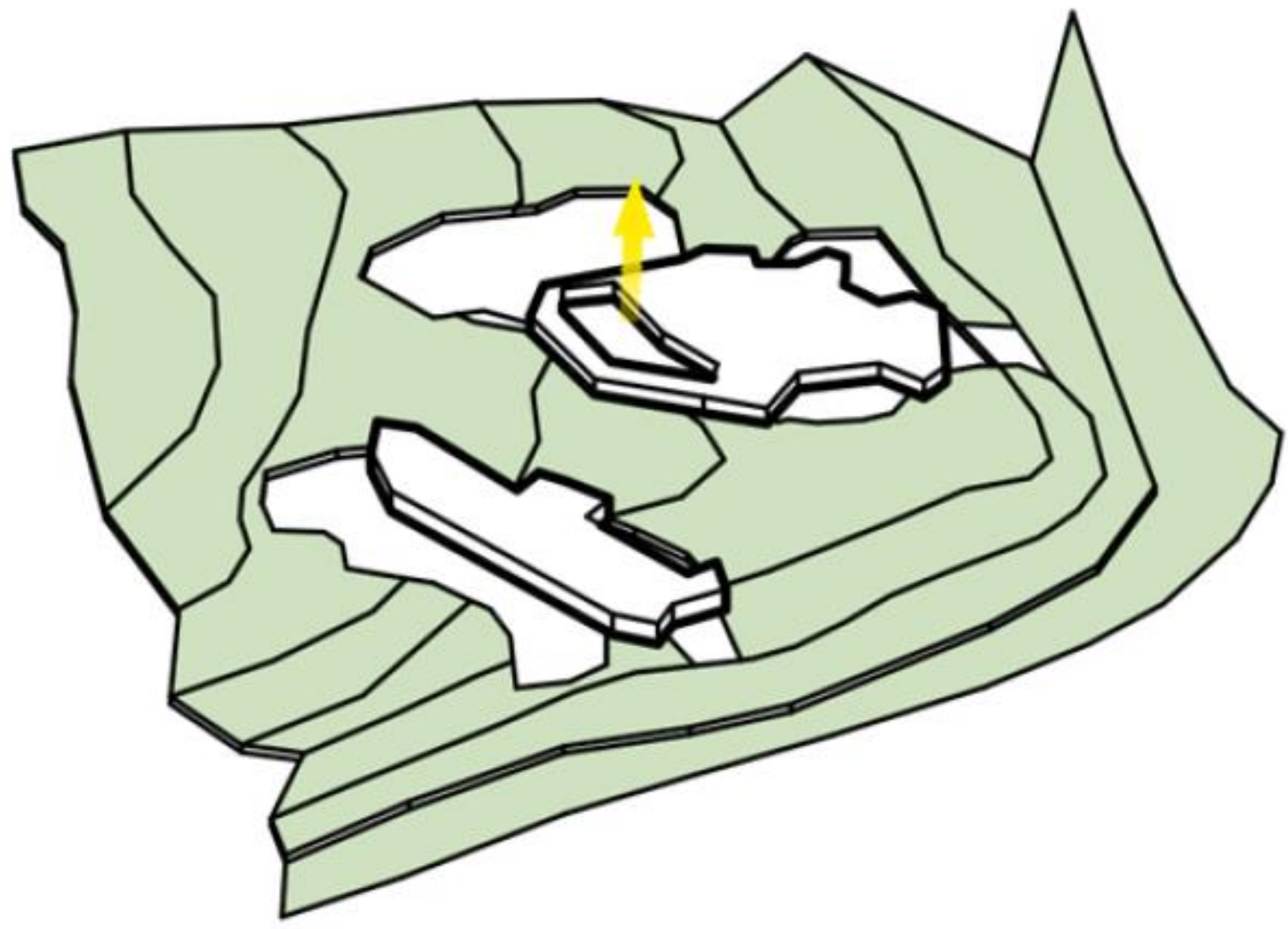


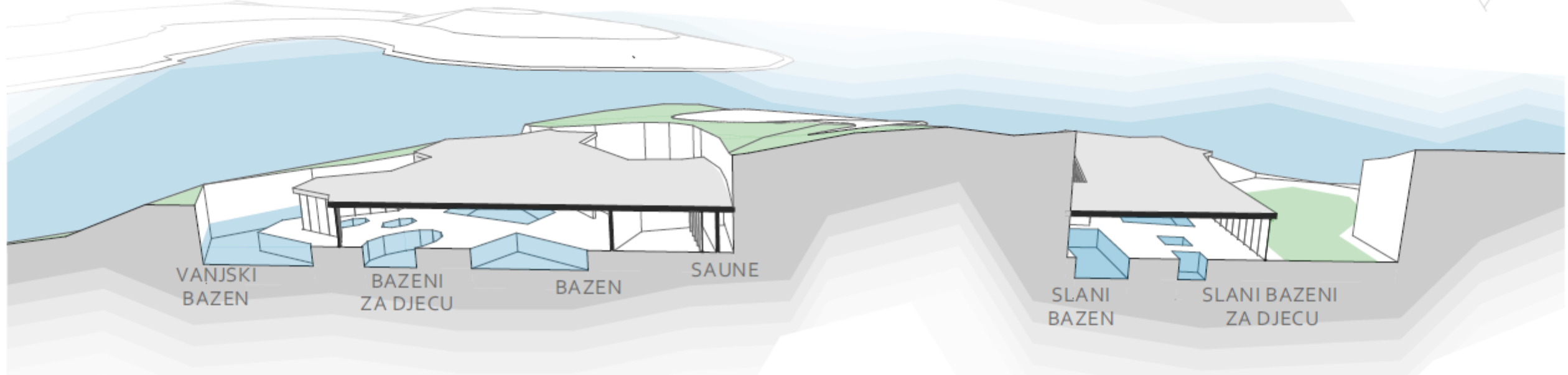
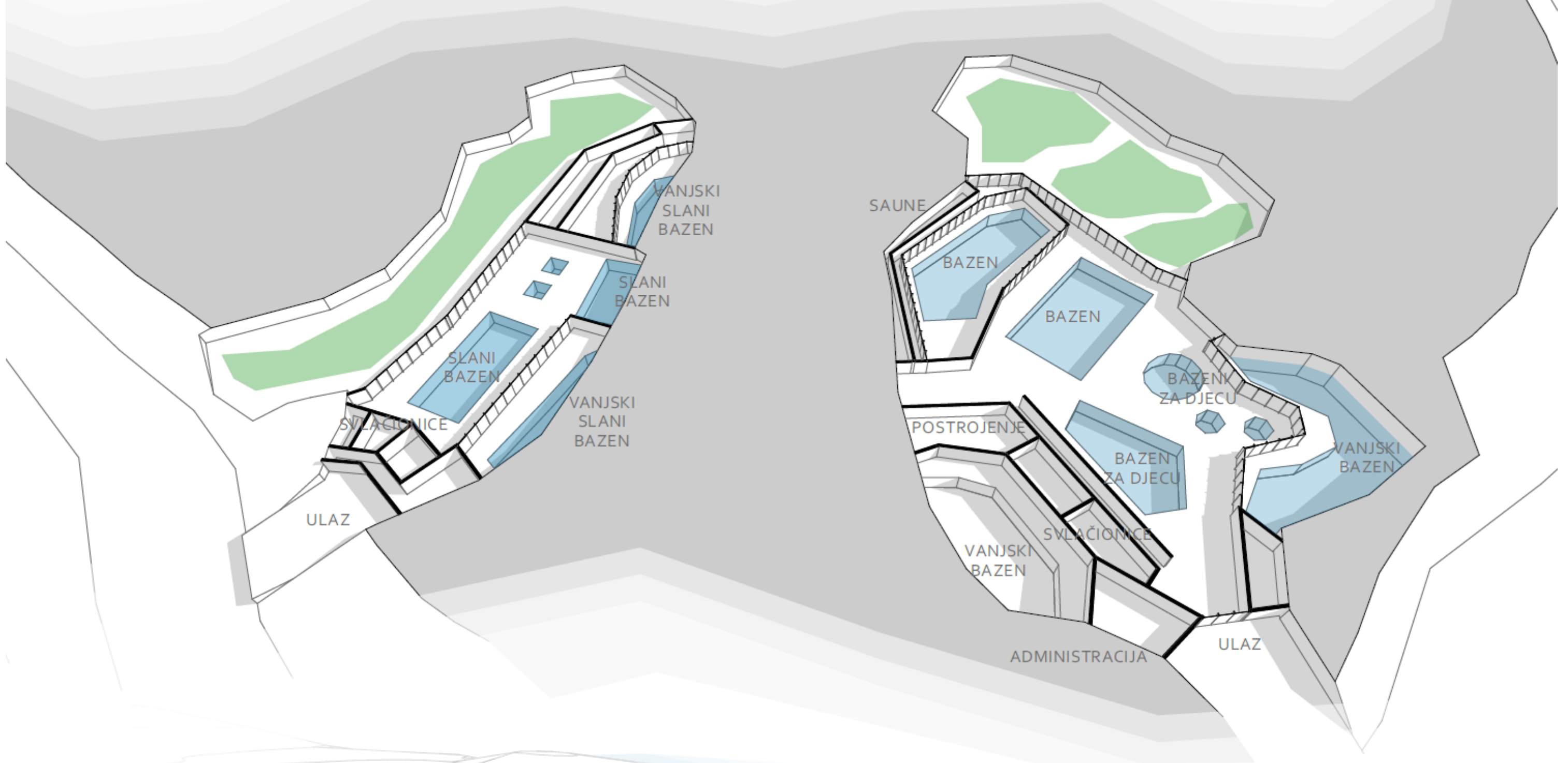






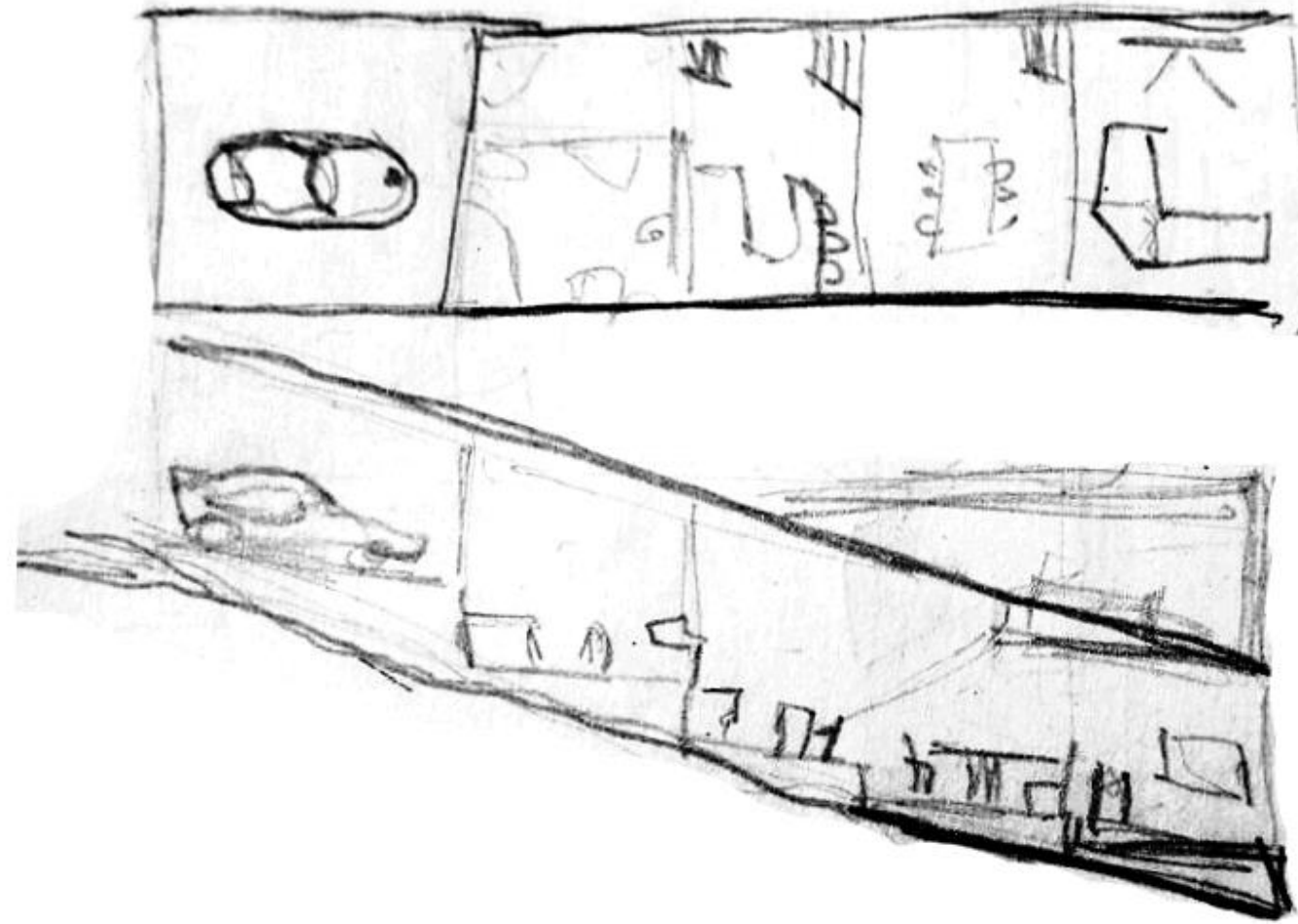


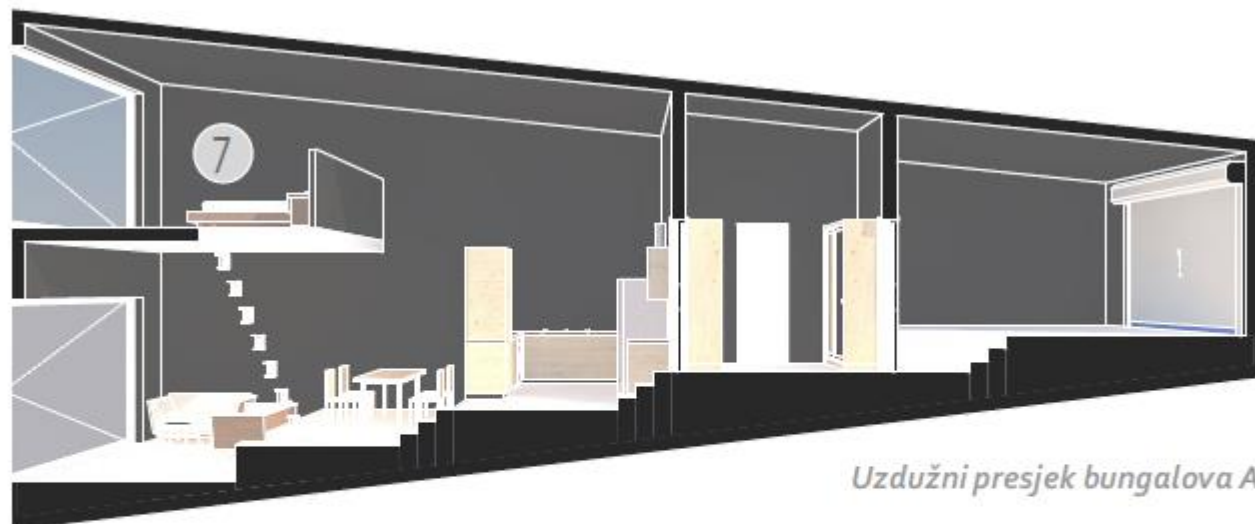




# BUNGALOVI







Uzdužni presjek bungalova A



Uzdužni presjek bungalova B



Tlocrt bungalova A



Tlocrt bungalova B

Jednosobni bungalov

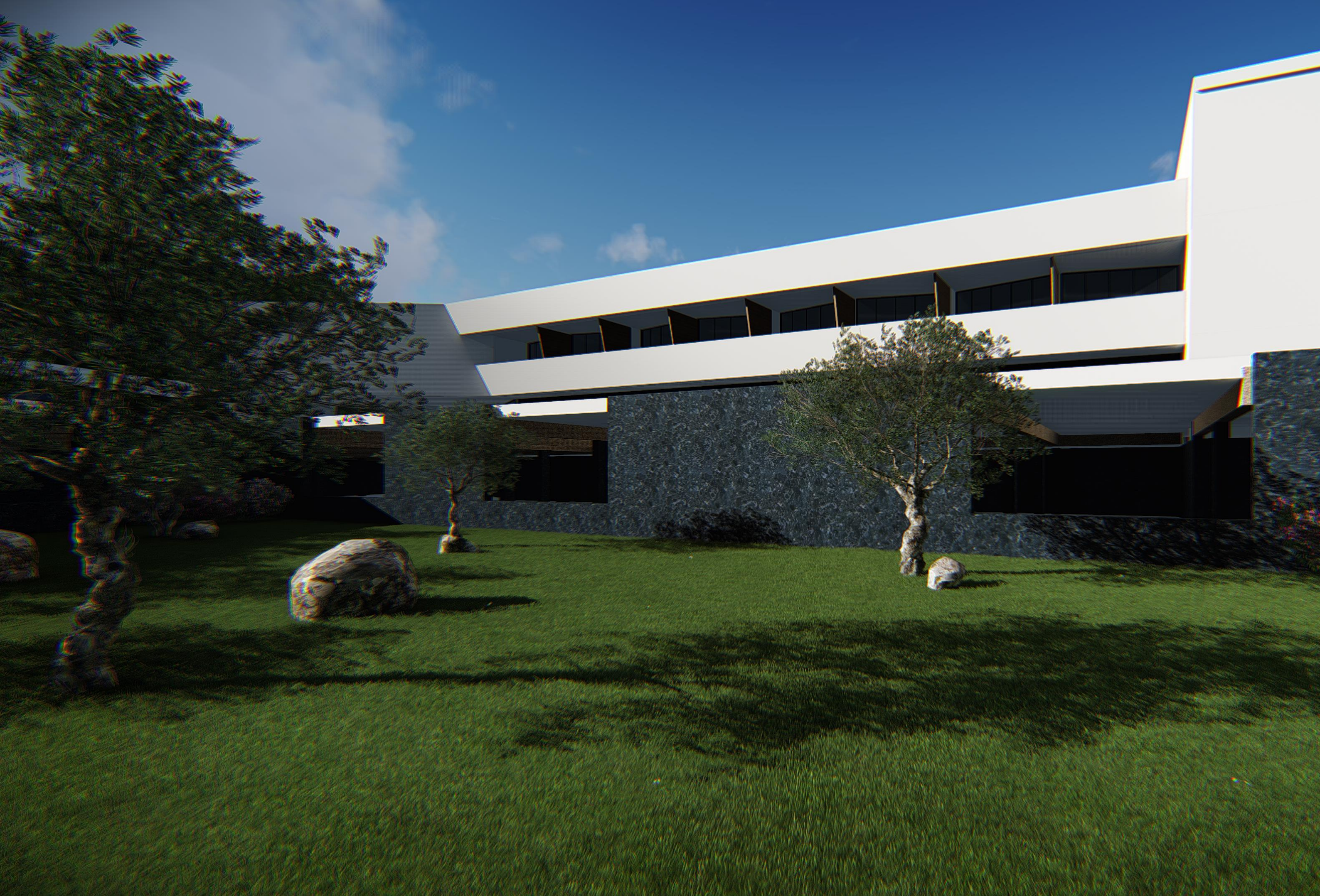
	m <sup>2</sup>
① Ulazni prostor	6
② Kupaonica	6
③ Garaža	23
④ Kuhinja	14
⑤ Blagovaonica	14
⑥ Dnevna soba	14
⑦ Spavaća soba	19

Dvosobni bungalov

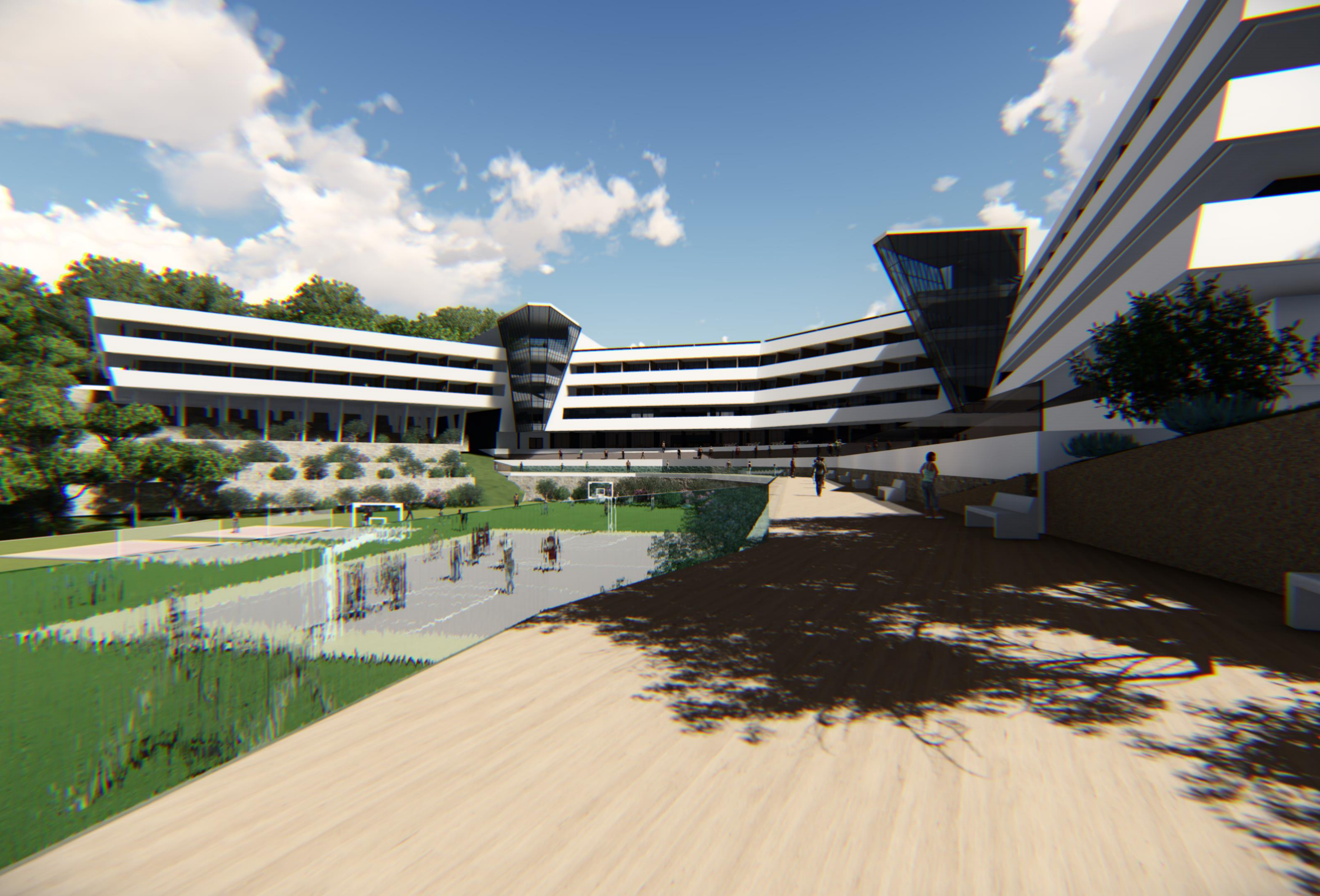
	m <sup>2</sup>
① Ulazni prostor	8
② Kupaonica	8
③ Garaža	25
④ Kuhinja	19
⑤ Blagovaonica	21
⑥ Dnevna soba	22
⑦ Spavaća soba 1	13
⑧ Spavaća soba 2	13

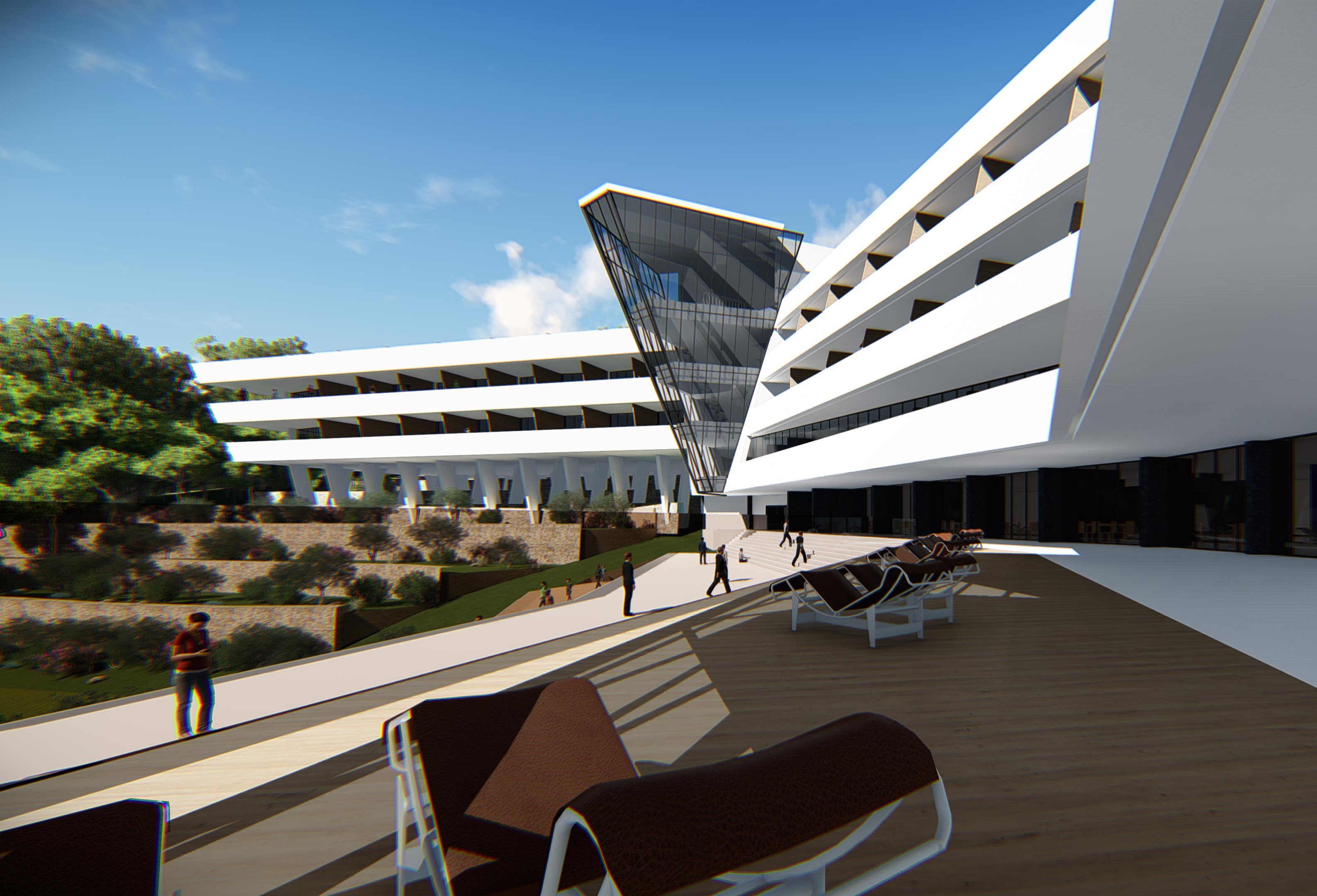


## VIZUALIZACIJE



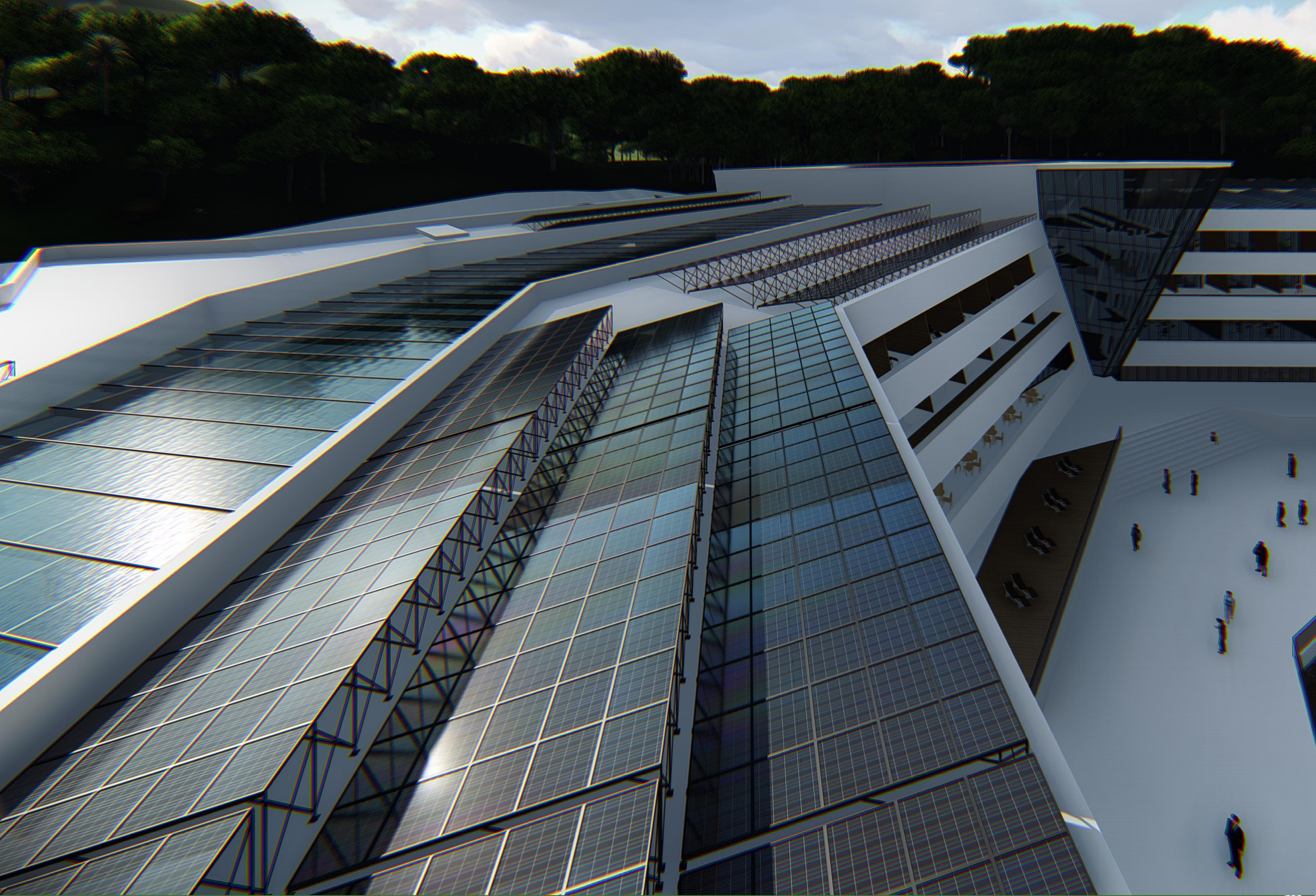




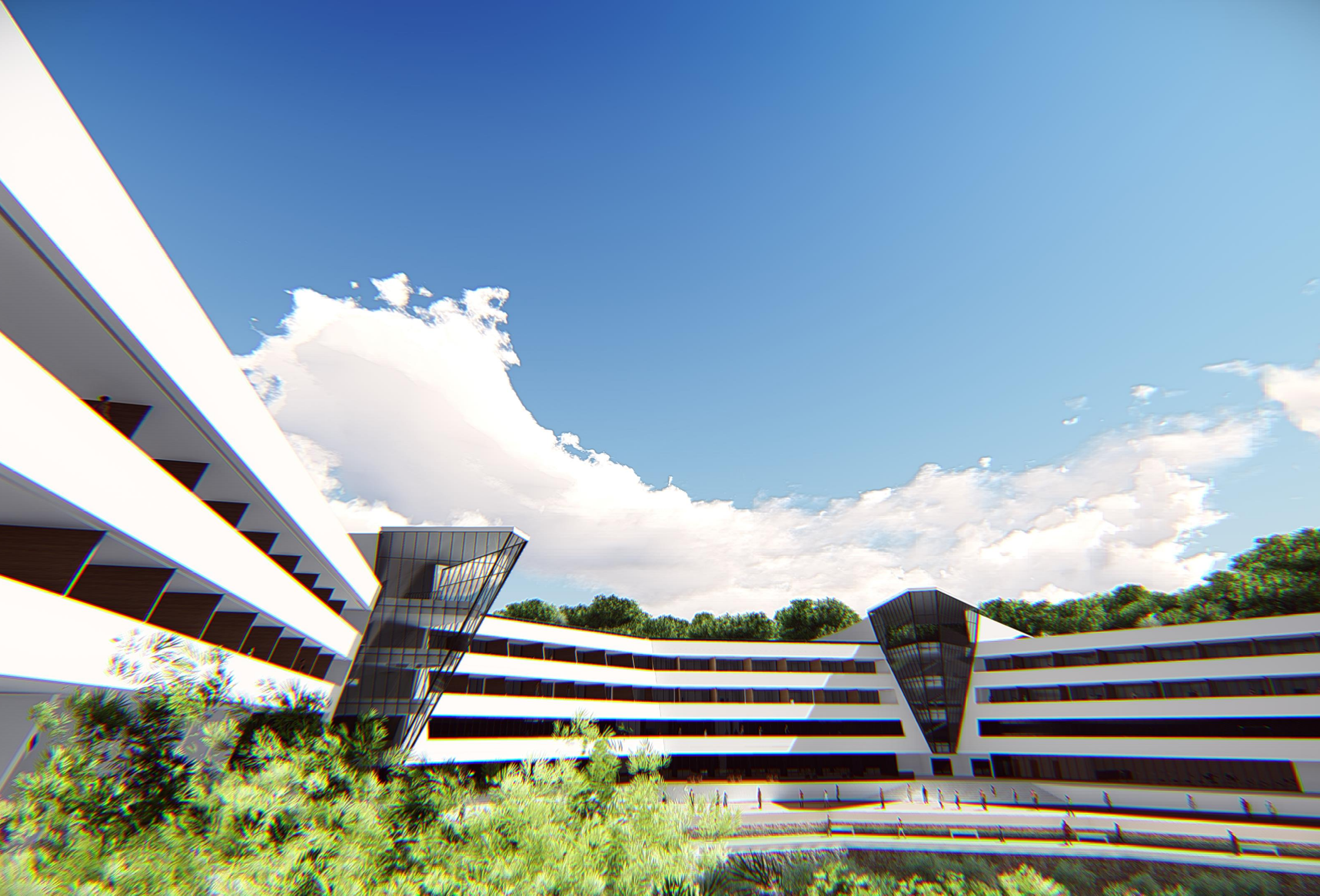










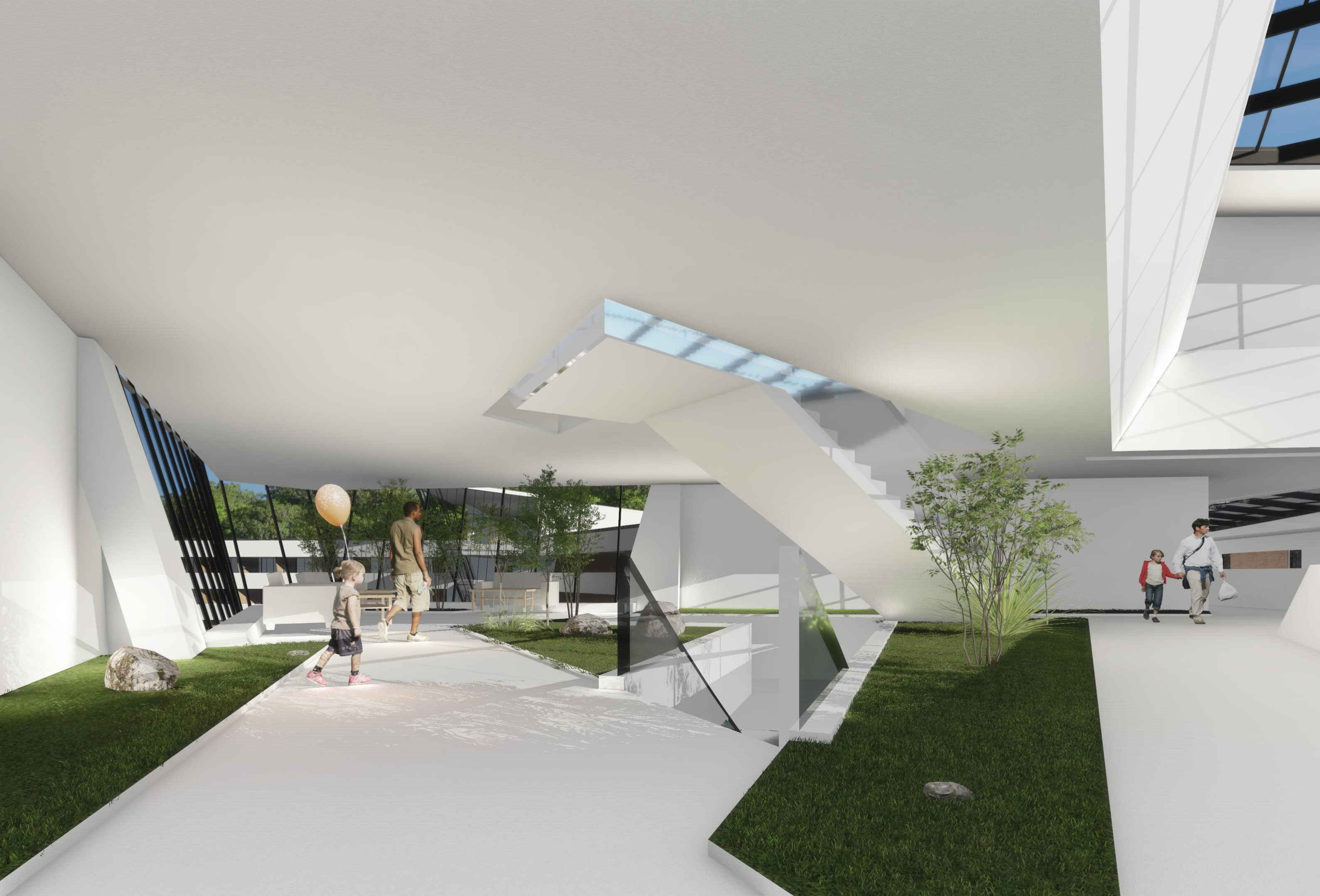


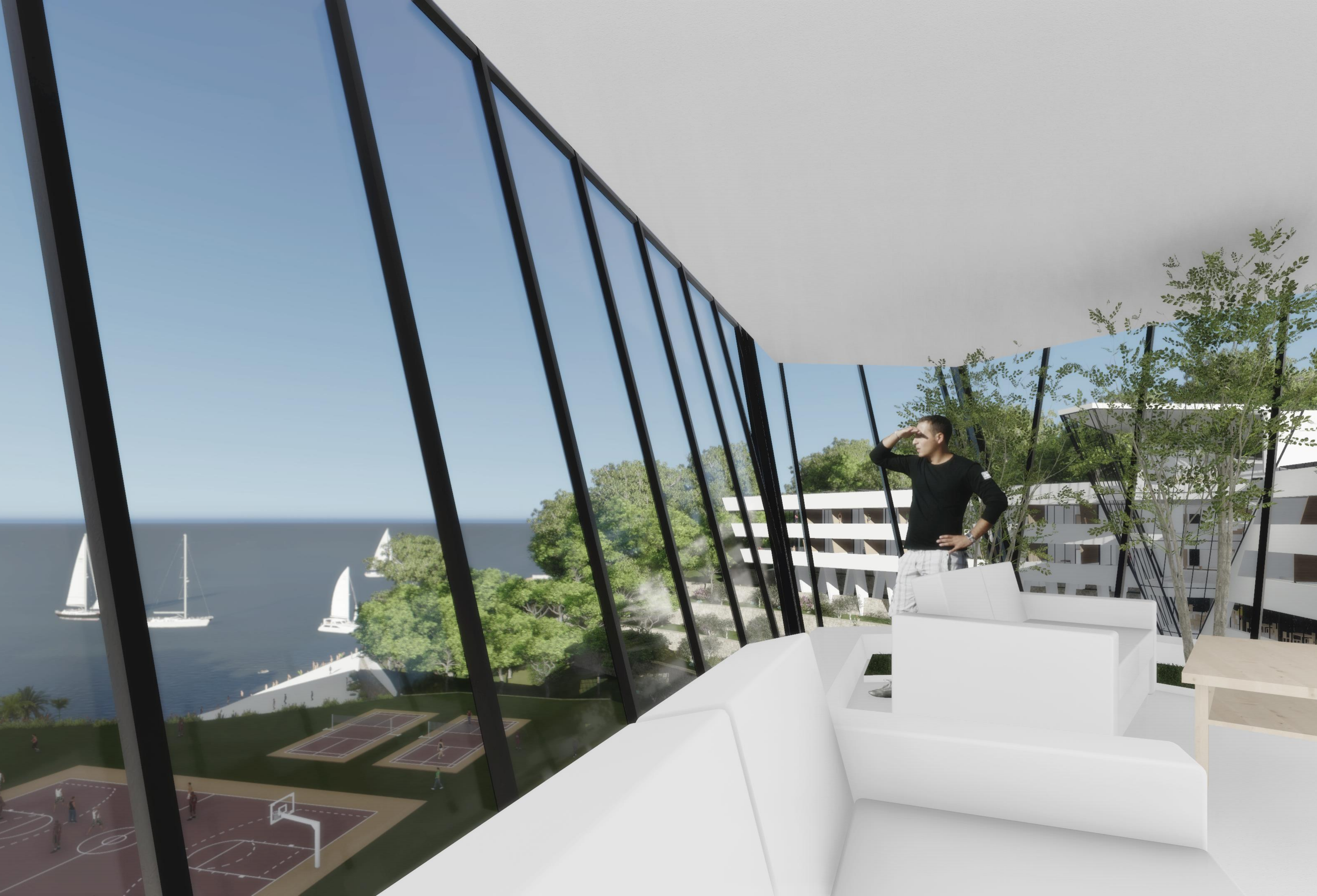


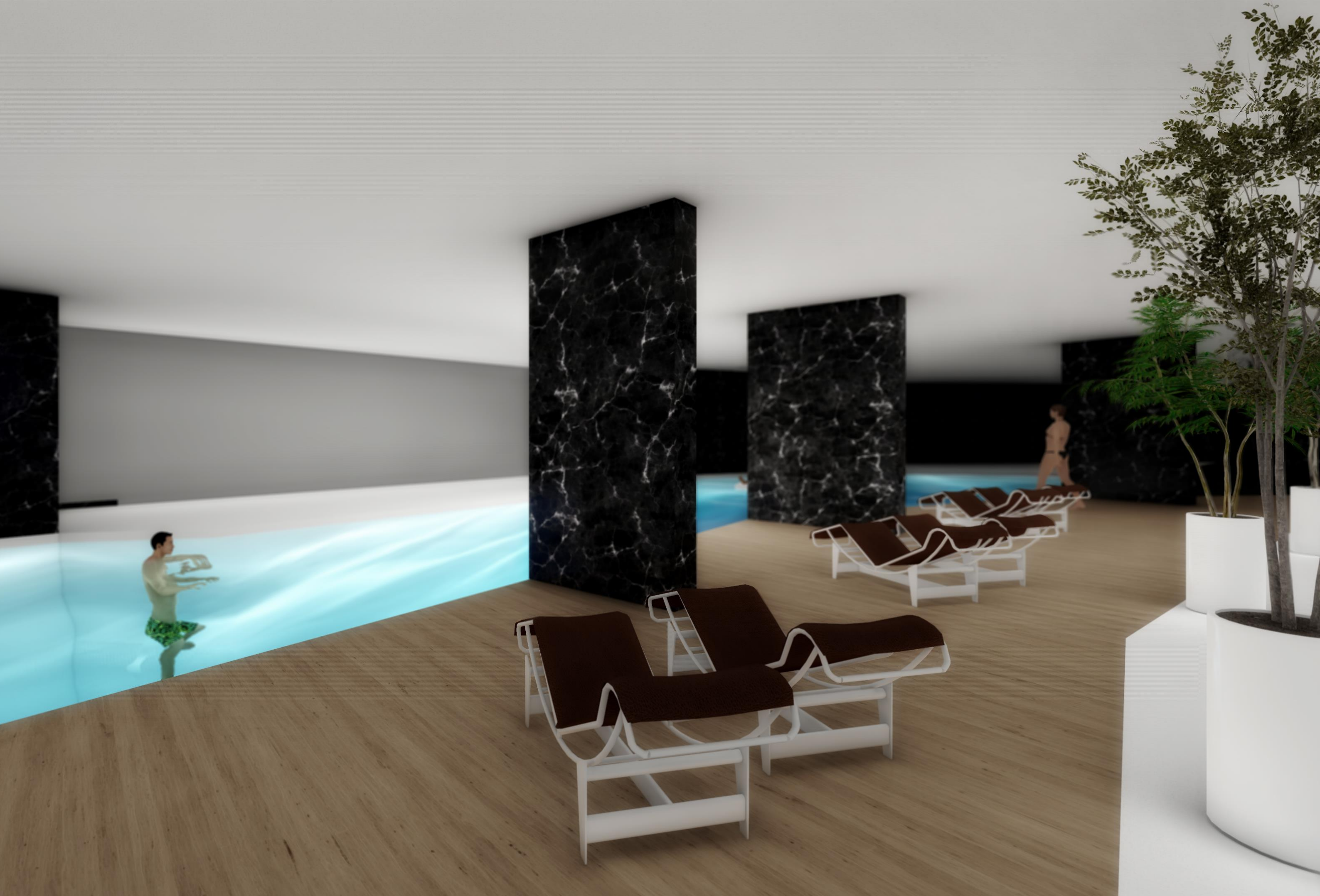






















## ZAHVALE :

Mentoru : prof.art. Anti Kuzmaniću  
Komentoru : prof.dr.sc. Juri Margeti  
Konzultantu za konstrukcije : prof.dr.sc. Borisu Trogriću

Profesorima :  
doc.dr.sc. Ivi Andriću  
doc.dr.sc Veljku Srziću  
prof.dr.sc Miji Vranješū

Gradonačelniku Andriji Fabrisu i uredu za urbanizam grada Korčule

Kolegama :  
Niki Peraniću  
Ivanu Repušiću  
Dunji Mitrović  
Nori Dešković

Rukovoditelju ODS Elektrojug-a dipl.ing.el. : Nikoli Lausu

Tehničkom direktoru NPKL-a : dipl ing.aedif. : Nevenu Brčiću

i svim ostalima koji su pomogli u izradi ovog dipomskog rada

