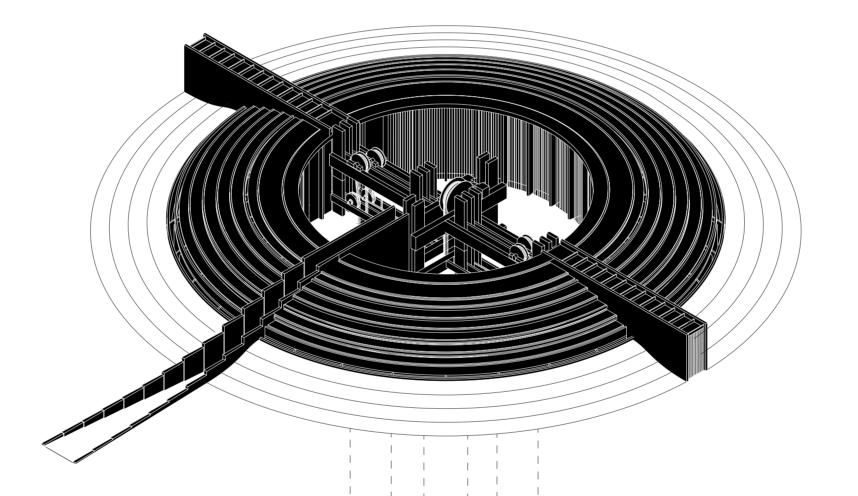
NUCLEAR REQUIEM

Burial ground for radioactive waste and memorial to the weapon testing area of Xinjiang



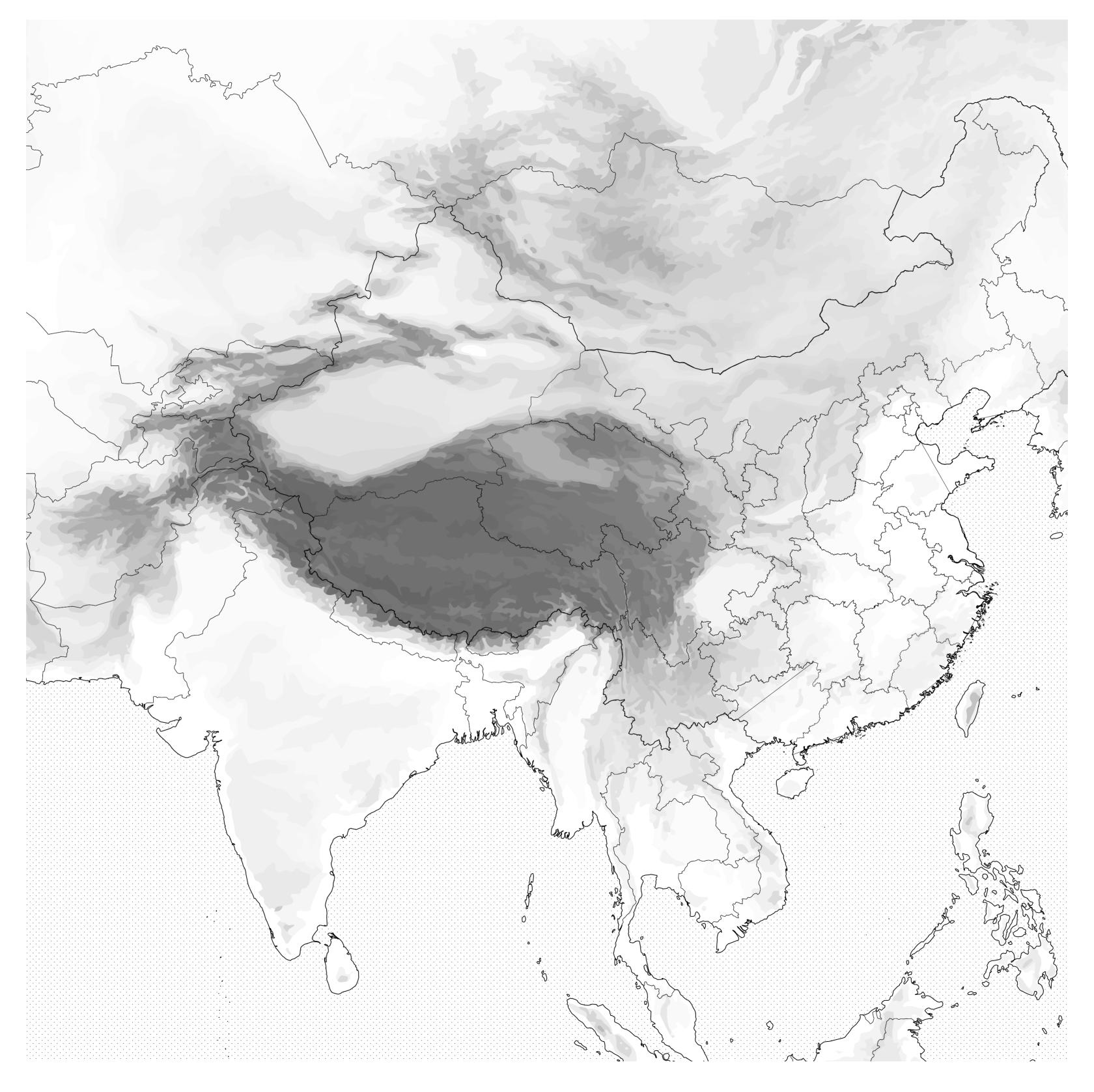
Research Death of the Terrritory

Research to Design | Nuclear Graveyard

Proposal | | Infrastructural Requiem



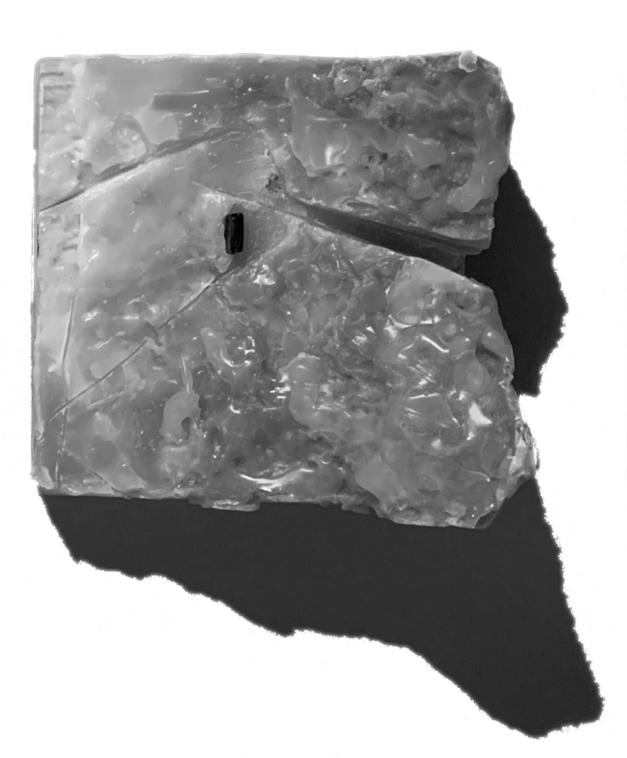
Xinjiang

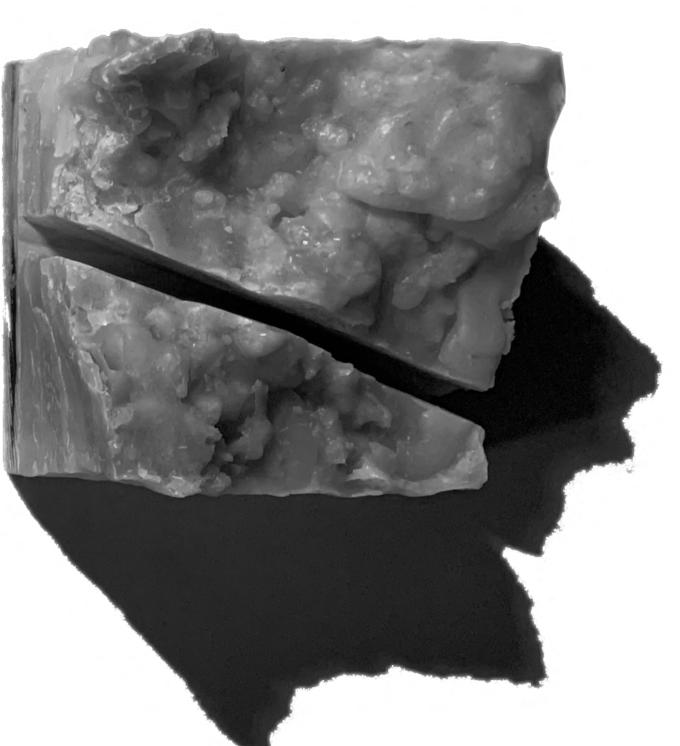


Tarim Basin

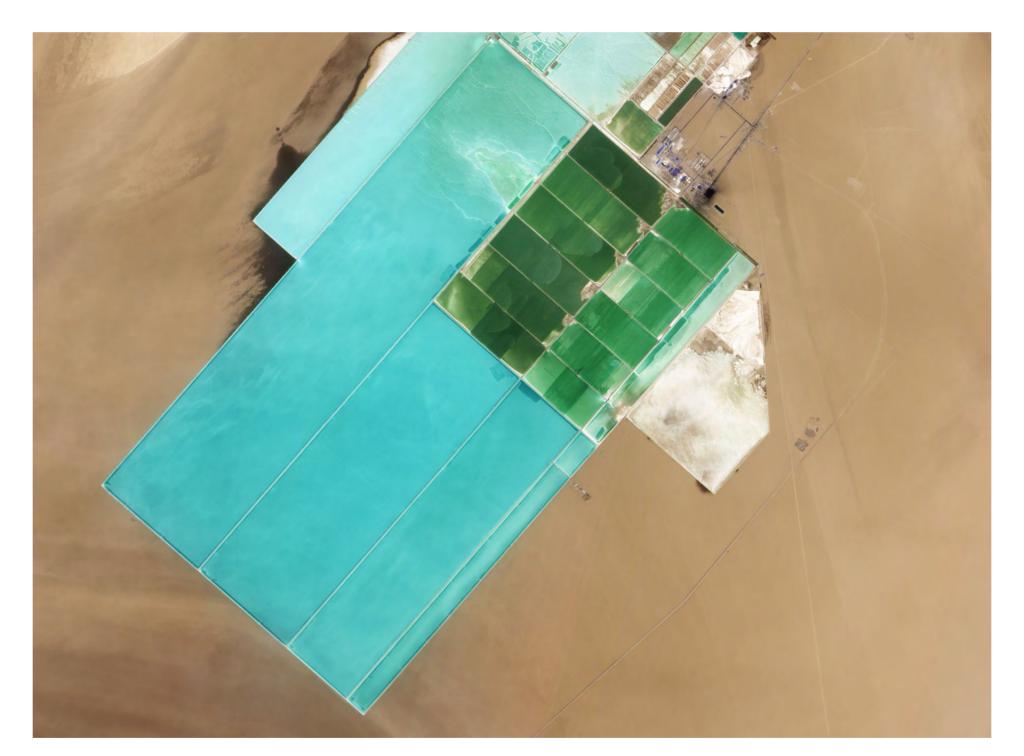




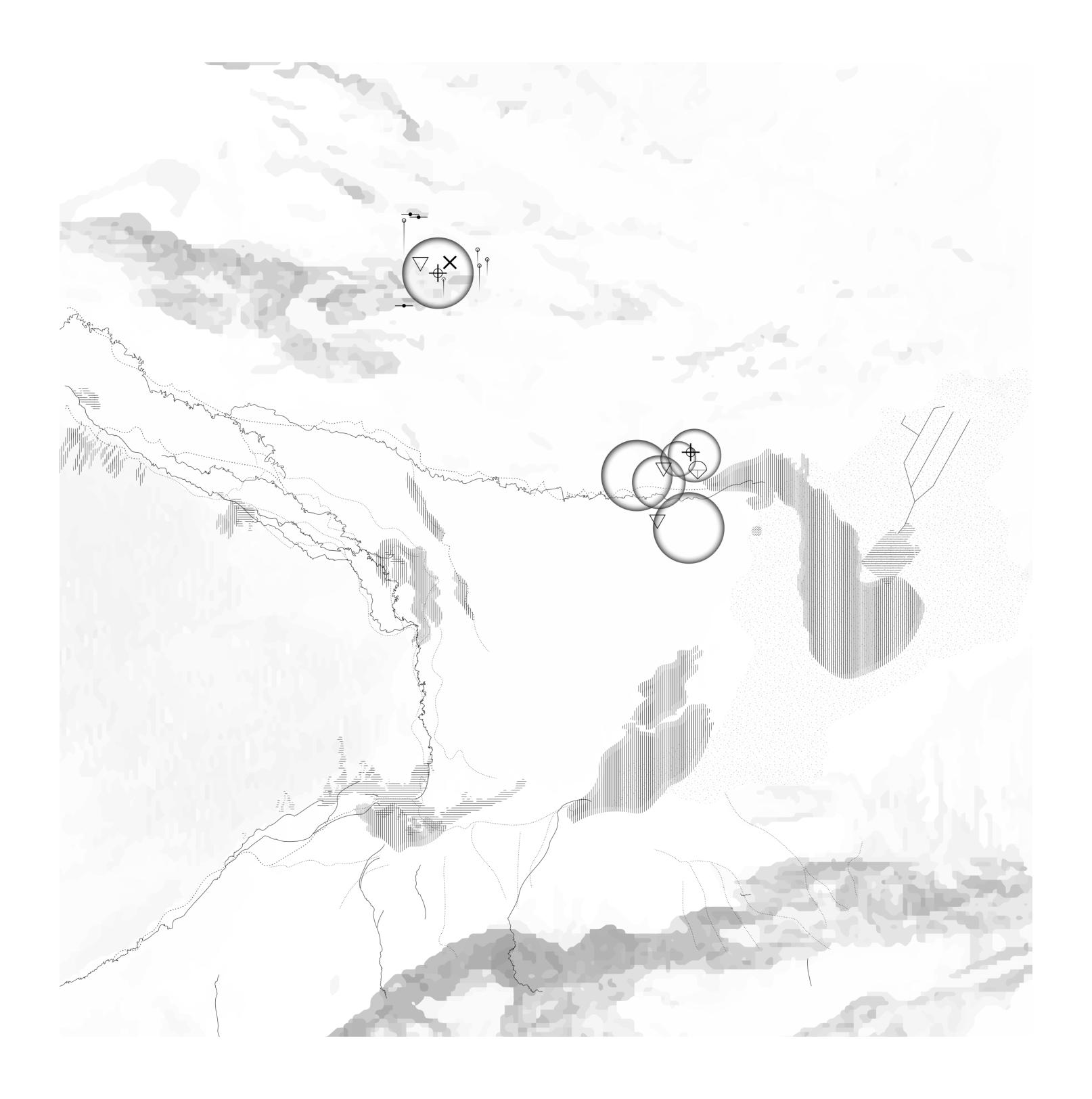








Exploitation of the Land

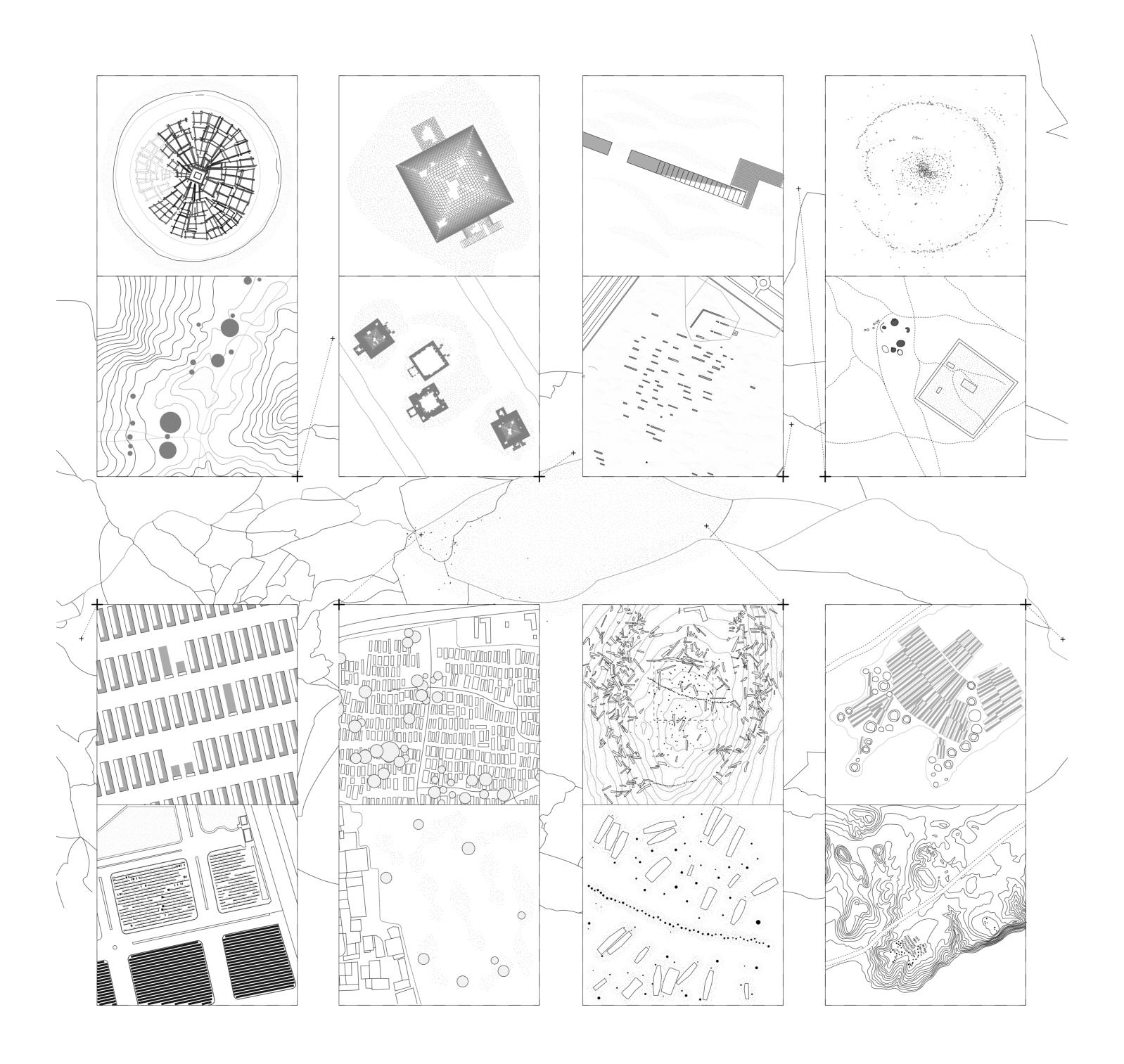


Exploitation of the Land





Exploitation of the Culture



Exploitation of the Culture

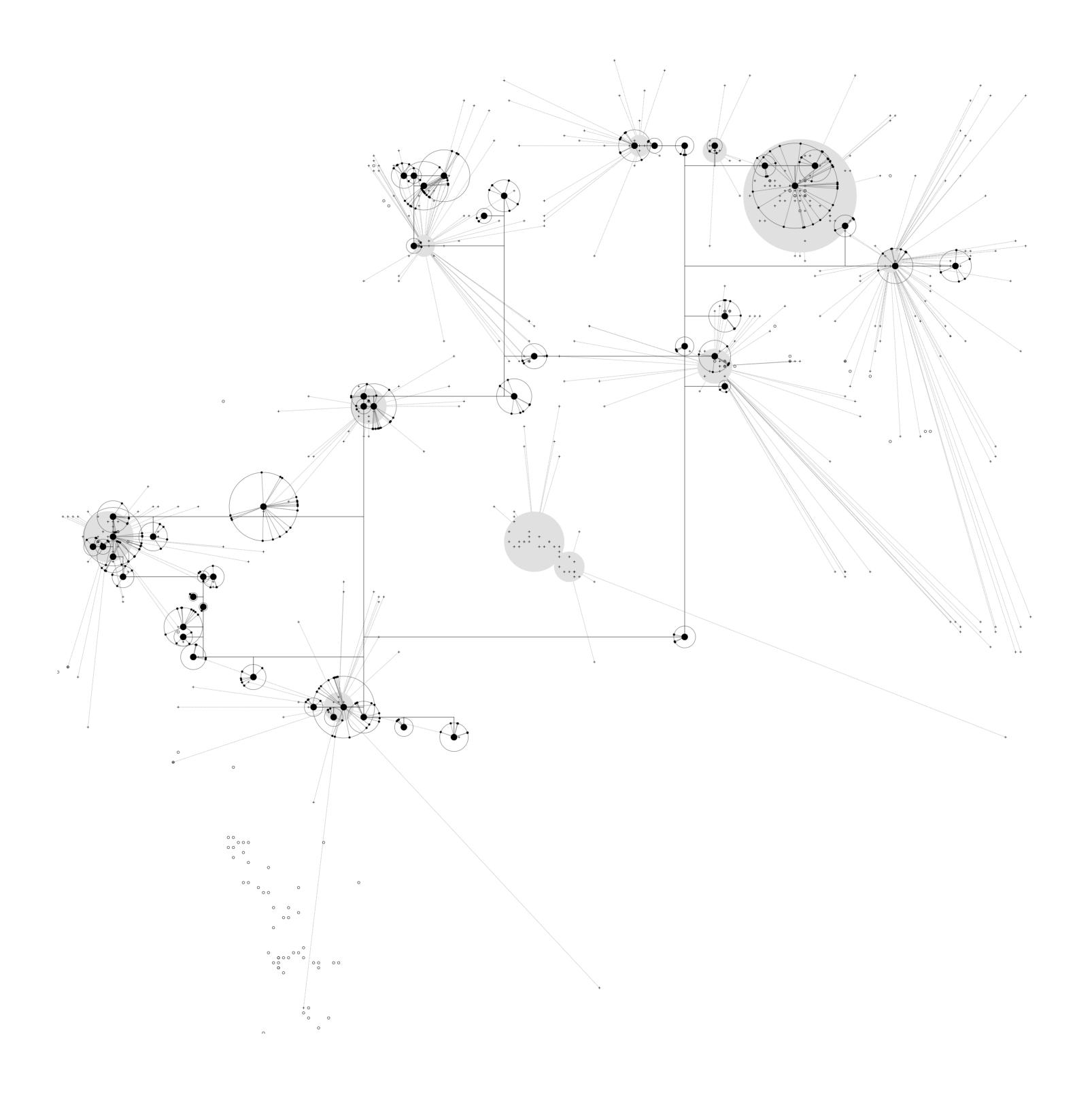
Exploitation of the People

–

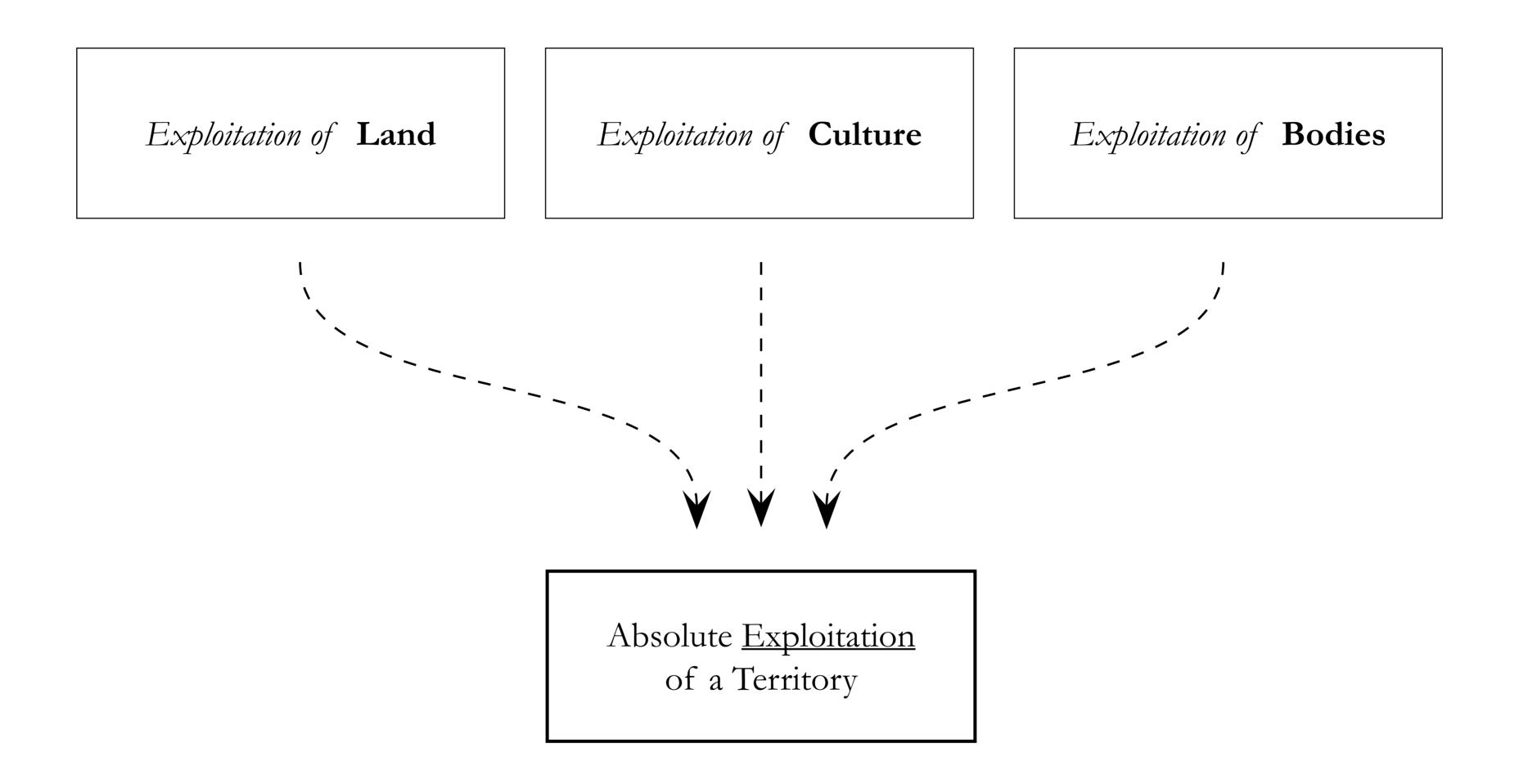




Exploitation of the People



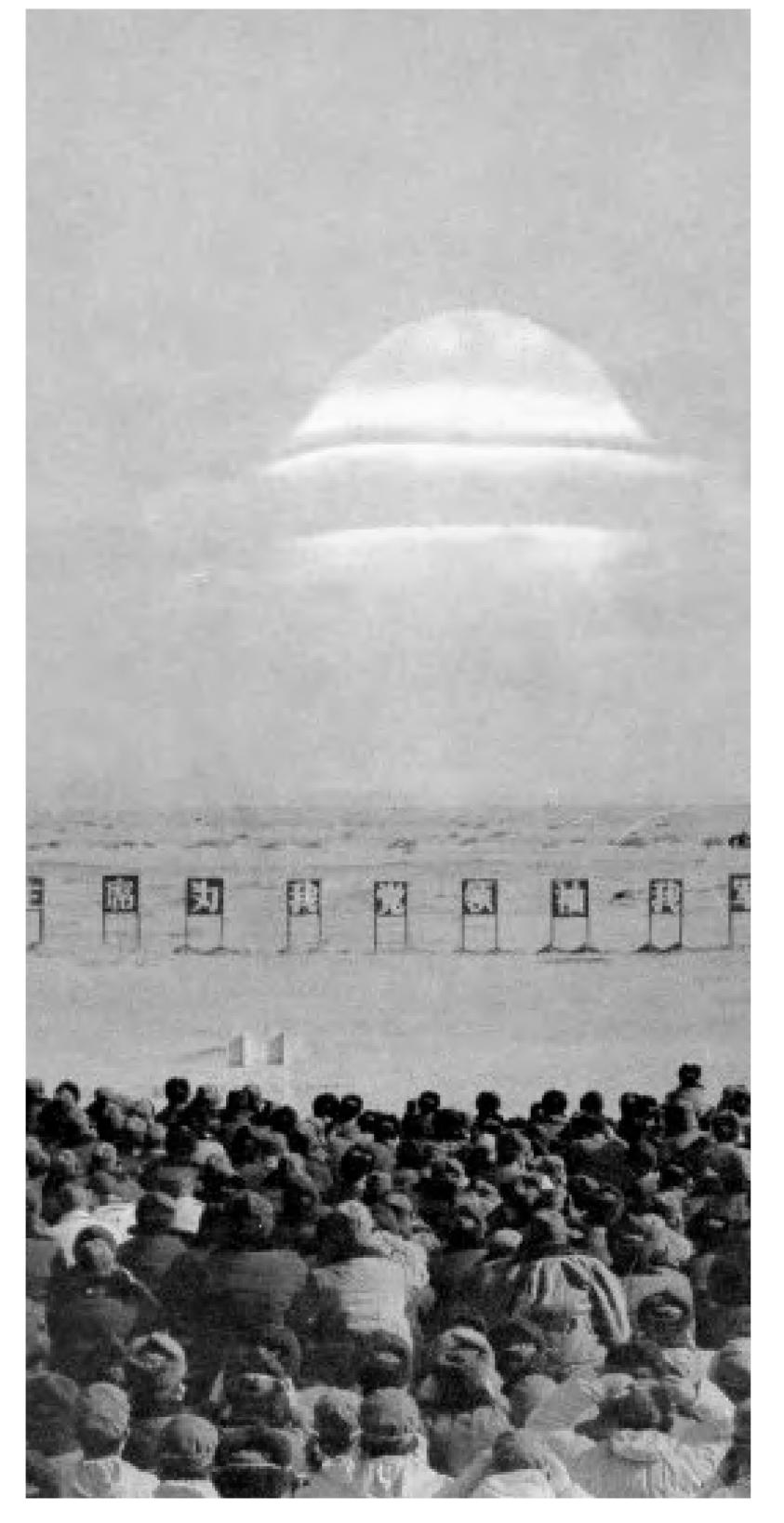
Exploitation of the People



Absolute Exploitation

Thesis' theoretical framework	Territory	Absolute <u>Exploitation</u>	Death
Michel Foucault	Element	Absolute De-Territorialization	Plane of Immanence

Death of the Territory





Nuclear Weapon Testing

The aftermath of nuclear imperialism in Lop Nor is well explained by Mbembe's theory of necropolitics (Mbembe 2003) [...]

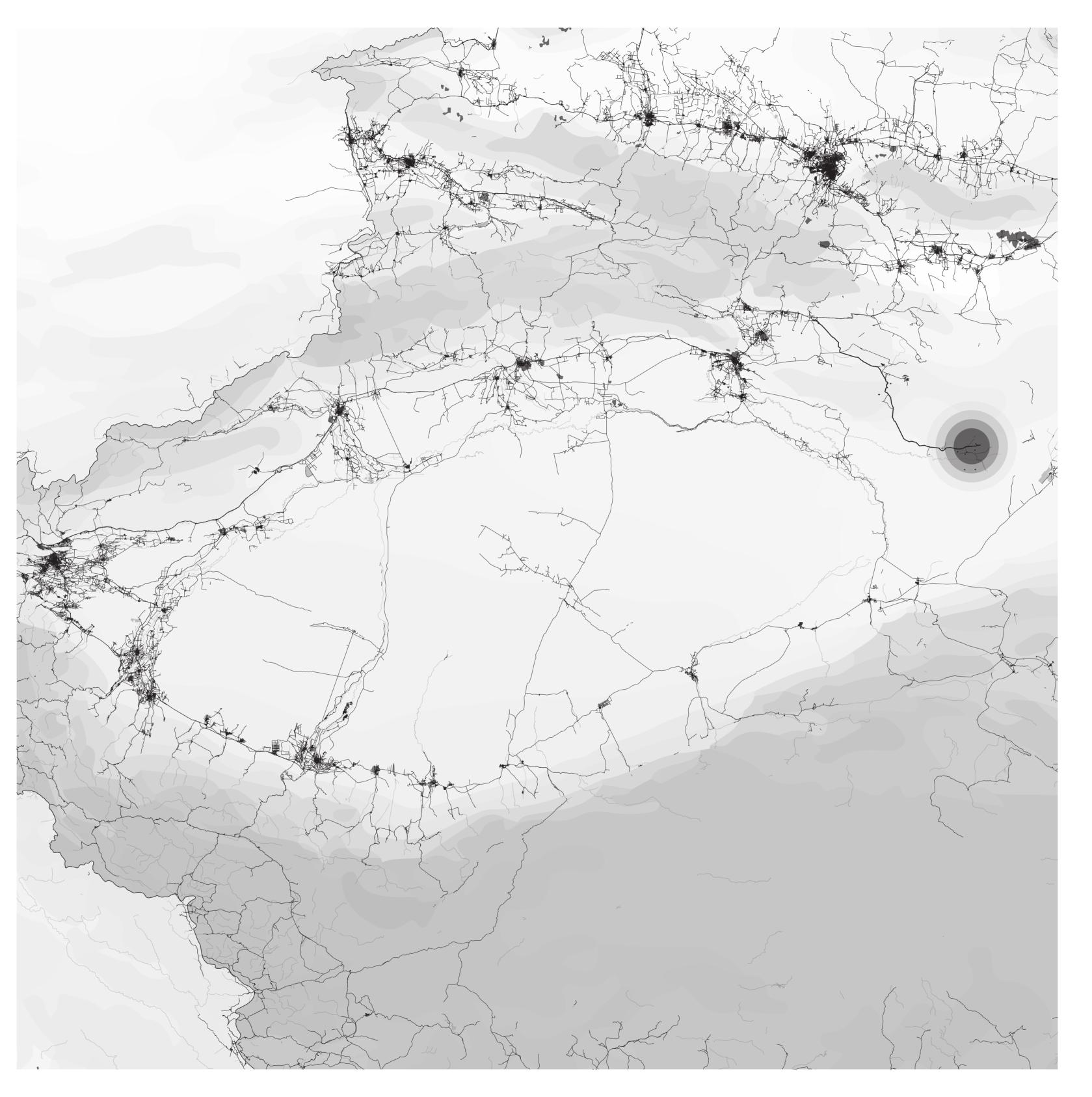
[...] "weapon are deployed in the interest of maximum destruction of persons and the creation of 'death-worlds'...", referring to a 'phantom-like' form of existence in which vast populations are subjected to the power of the state over their life and death. "the extraction and looting of natural resources by war machines goes hand in hand with brutal attempts to immobilise and spatially fix whole categories of people" [...]

[...] Through the nuclear activity across Xinjiang, the sovereignty power of the PRC has dominated and racialized Uyghur environments, culture and bodies.

Nuclear Imperialism-Necropolitics Nexus

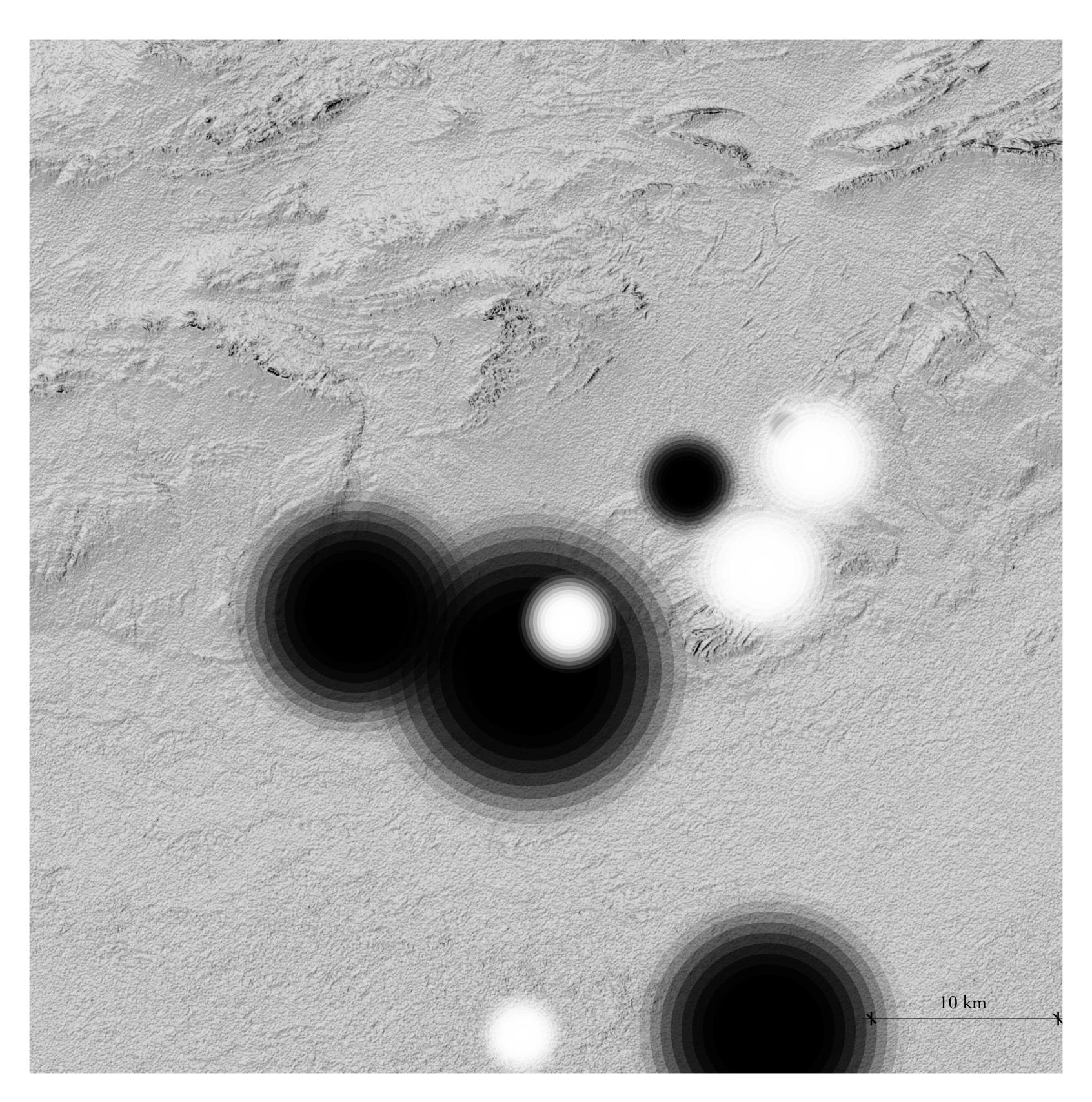
Alexis-Martin 2019

Necropolitics and Nuclear Imperialism

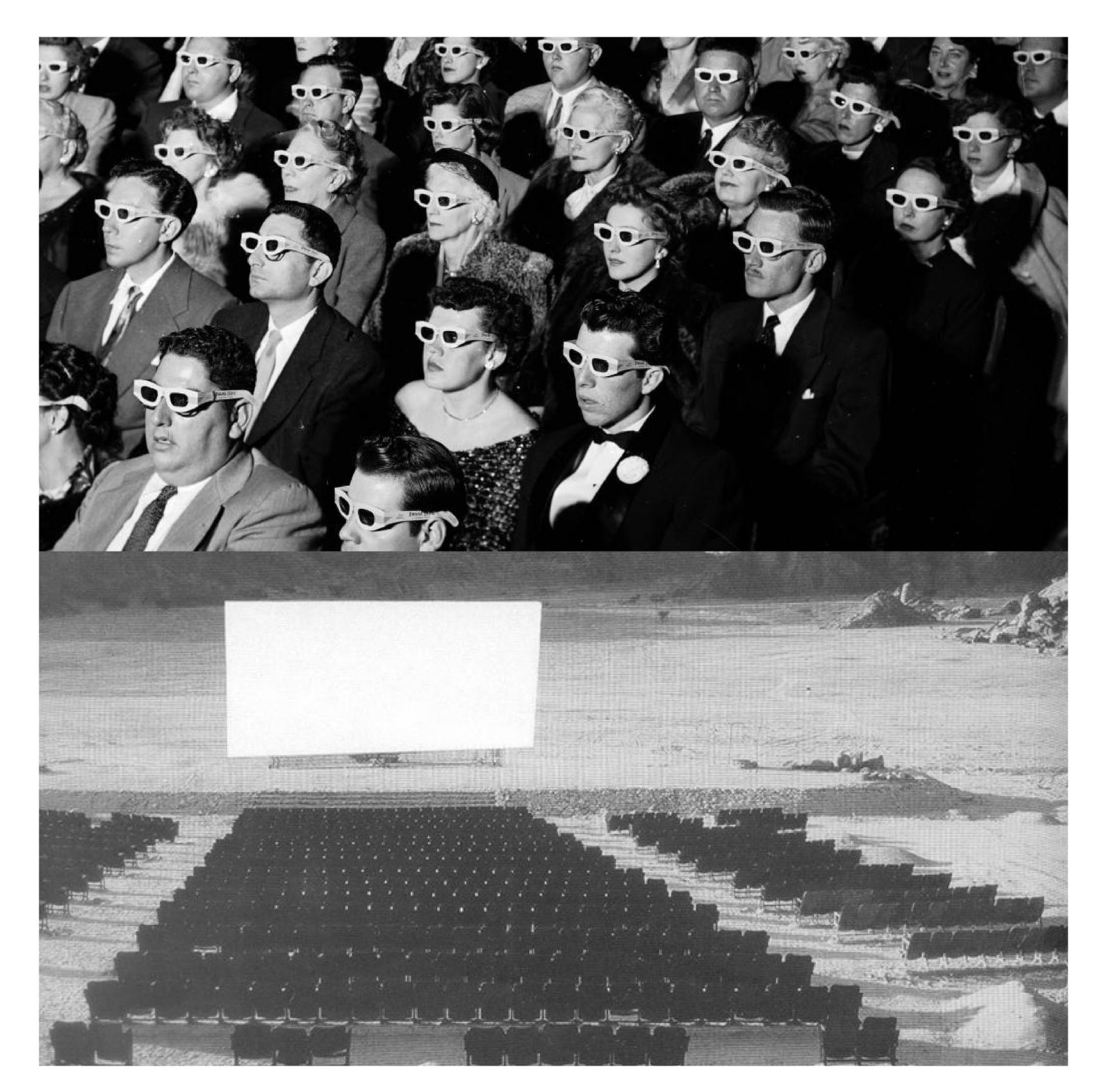


Lop Nor base

Project 596	16/10/64	D	Tower	22
CHIC-2	14/05/65	D	Air drop	35
CHIC-3	09/05/66	D	Air drop	250
CHIC-4	27/10/66	D	High alt rocket	12
CHIC-5	28/12/66	D	Tower	300
CHIC-6	17/06/67	D	Parachuted	3300
CHIC-7	24/12/67	D	Air drop	20
CHIC-8	27/12/68	D	Air drop	3000
CHIC-9	22/09/69	В	Tunnel	19
CHIC-10	29/09/69	D	Air drop	3000
CHIC-11	14/10/70	D	Air drop	3400
CHIC-12	18/11/71	D	Cratering	20
CHIC-13	07/01/72	D	Air drop	8
CHIC-14	18/03/72	D	Air drop	170
(15)	27/06/73	D	Air drop	3000
(16)	17/06/74	D	Atmospheric	1000
(17)	27/10/75	В	Tunnel	3
(18)	23/01/76	D	Atmospheric	N/A
(19)	26/09/76	D	Atmospheric	200
(20)	17/10/76	A	Tunnel	3
(21)	17/11/76	D	Air drop	4000
(22)	17/09/77	D	Atmospheric	N/A
(23)	15/03/78	D	Atmospheric	11
(24)	14/10/78	C	Underground	3
` ,	14/10/78	D	Atmospheric	N/A
(25) Failed	02/02/79	D	-	1 1
	13/09/79		Underground Daga about a d	_
(26) aborted		D	Parachuted	N/A
(27)	16/10/80	D	Atmospheric	1000
(28)	05/10/82	$\mathbf{D}_{\mathbf{A}}$	Underground	7
(29)	04/05/83	A	Tunnel	1 NT/A
(30)	06/10/83	C	Underground	N/A
(31)	03/10/84	C	Underground	N/A
(32)	19/12/84	A	Tunnel	15
(33)	05/06/87	C	Underground	250
(34)	29/09/88	A	Tunnel	3
(35)	26/05/90	C	Underground	N/A
(36)	16/08/90	C	Underground	189
(37)	21/05/92	C	Underground	660
(38)	25/09/92	A	Tunnel	8
Failed	02/11/92	D	Underground	1
(39)	05/10/93	C	Underground	80
(40)	10/06/94	C	Underground	90
(41)	07/10/94	C	Underground	90
(42)	15/05/95	C	Underground	95
(43)	17/08/95	C	Underground	90
(44) - 1	08/06/96	C	Underground	50
(44) - 2	08/06/96	C	Underground	N/A
(45)	29/07/96	A	Tunnel	3



Weapon Tests



"All that once was directly lived has become mere representation."

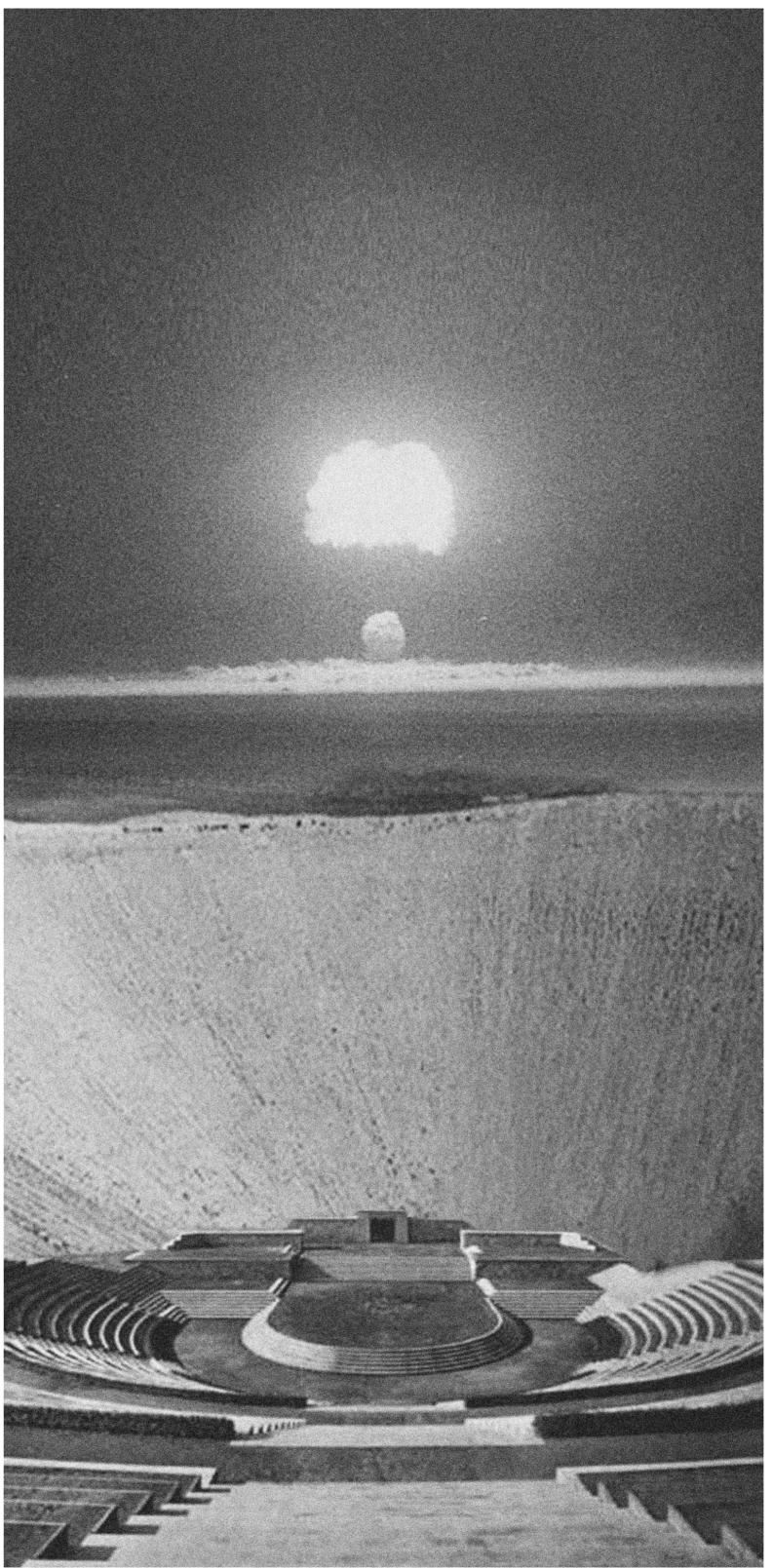
"the decline of being into having, and having into merely appearing."

"historical moment at which the commodity completes its colonization of social life."

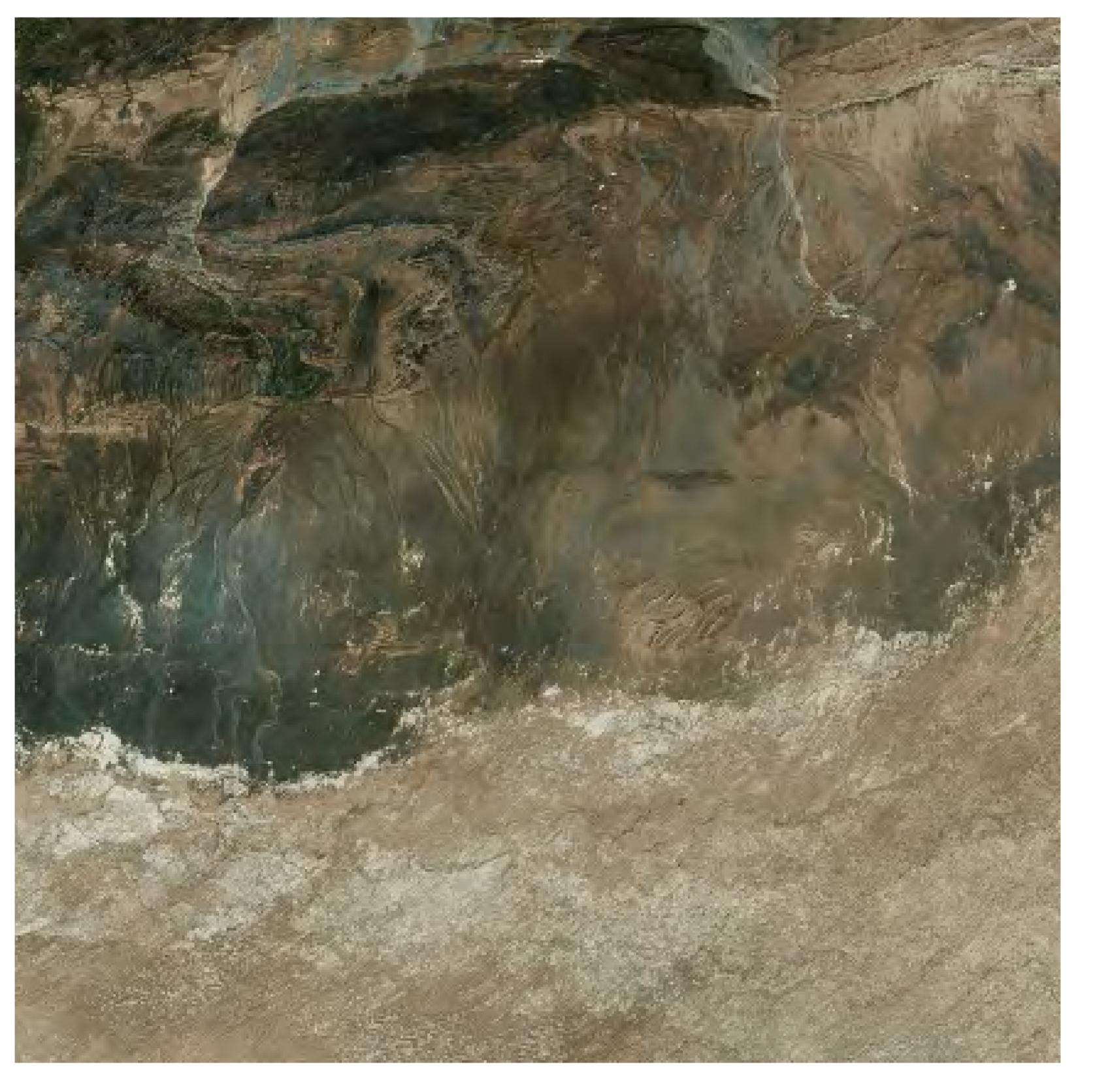
Guy Debord - Society of the Spectacle

Spectating the destruction

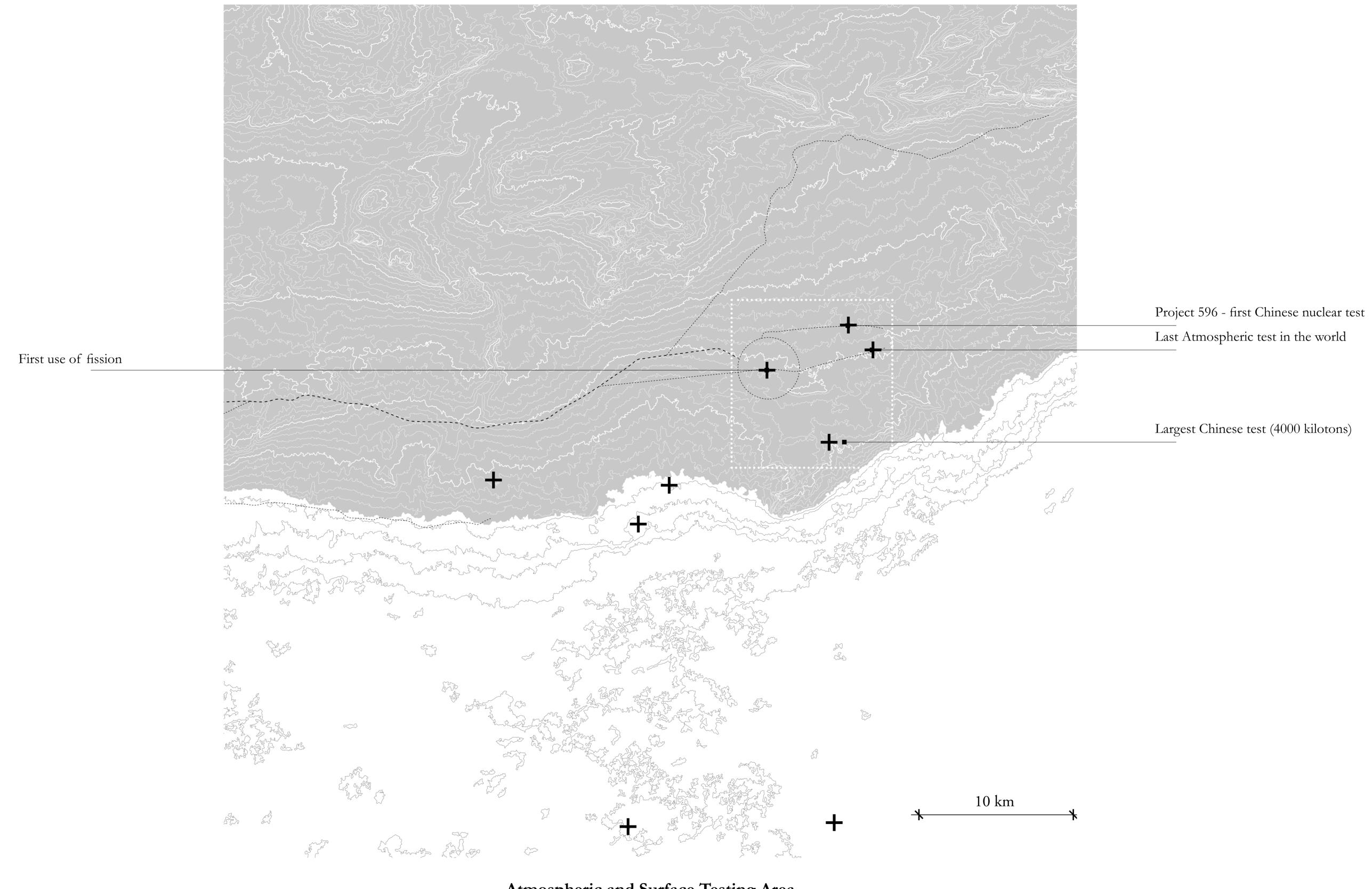




Apex of territorial destruction



Atmospheric and Surface Testing Area
Satellite Image



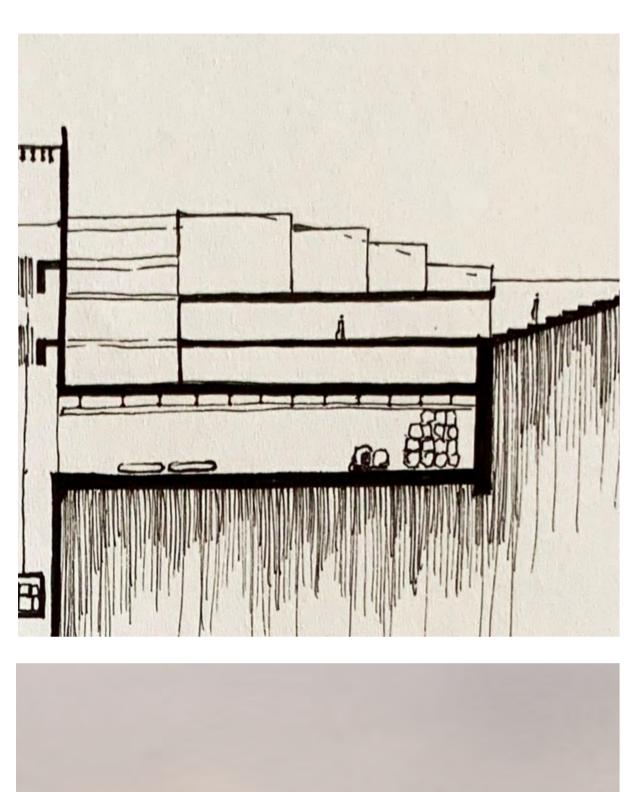
Atmospheric and Surface Testing Area



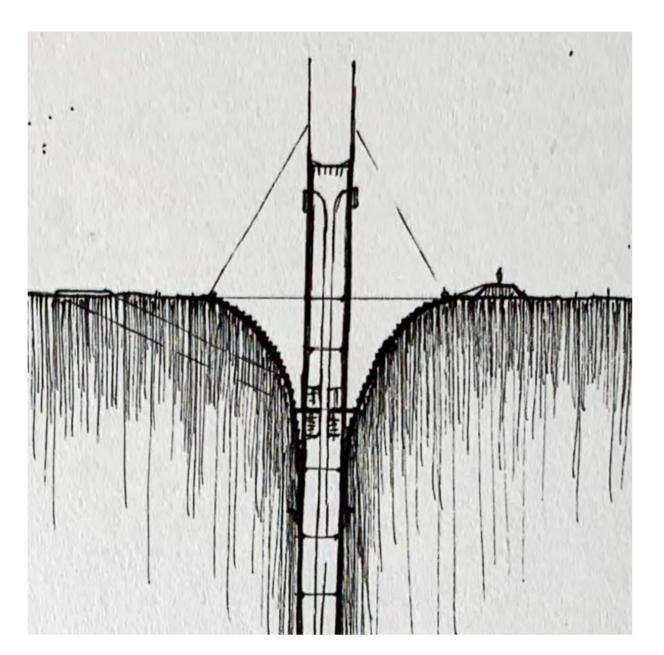








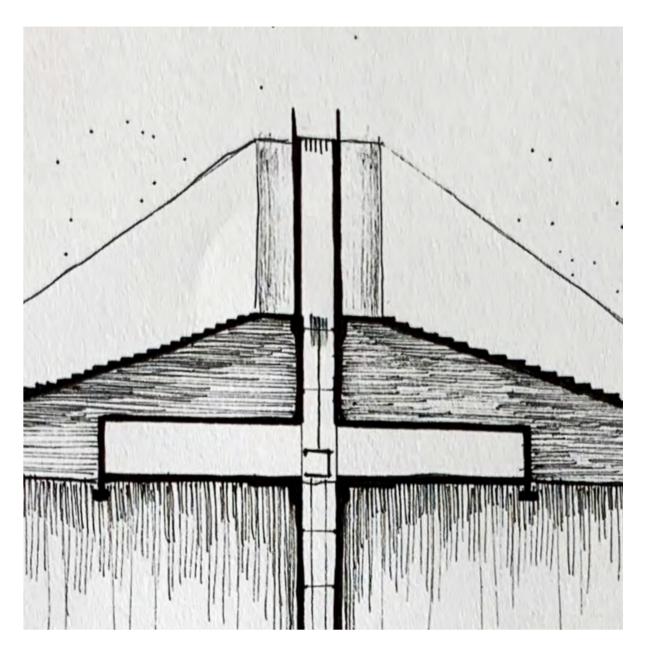














Hidden Infrastructure

China / People & Culture

China earmarks site to store nuclear waste deep underground

- Researchers will conduct tests at the location in Gansu to see whether it will make a viable facility to store highly radioactive waste safely
- Scientists say China has the chance to become a world leader in this field but has to find a way to ensure it does not leak



<u>▼</u> Why you can true, SSMP



South China Morning Post China / Science China builds bunker to test whether nuclear waste can be + FOLLOW dumped underground • Lab more than 500 metres underground in the Gobi Desert will be the world's largest of its kind • If research there is successful, a long-term underground dump for high-level radioactive waste could be built, helping to address a global problem Echo Xie + FOLLOW
Published: 8:28pm, 23 Jun, 2021 → KNOWLEDGE China's tech billionaires Q: Before founding Tencent in 1993, what did Pony Ma do for a living? 9 Alibaba posts fourth-Post record antitrust fine

 \Box

China's record fine sets Alibaba as an example

13 things you may not know about China's tech

Baidu flops in Hong Kong stock debut as market risks temper IPO craze

► O: What doos Visomi

for tech giants

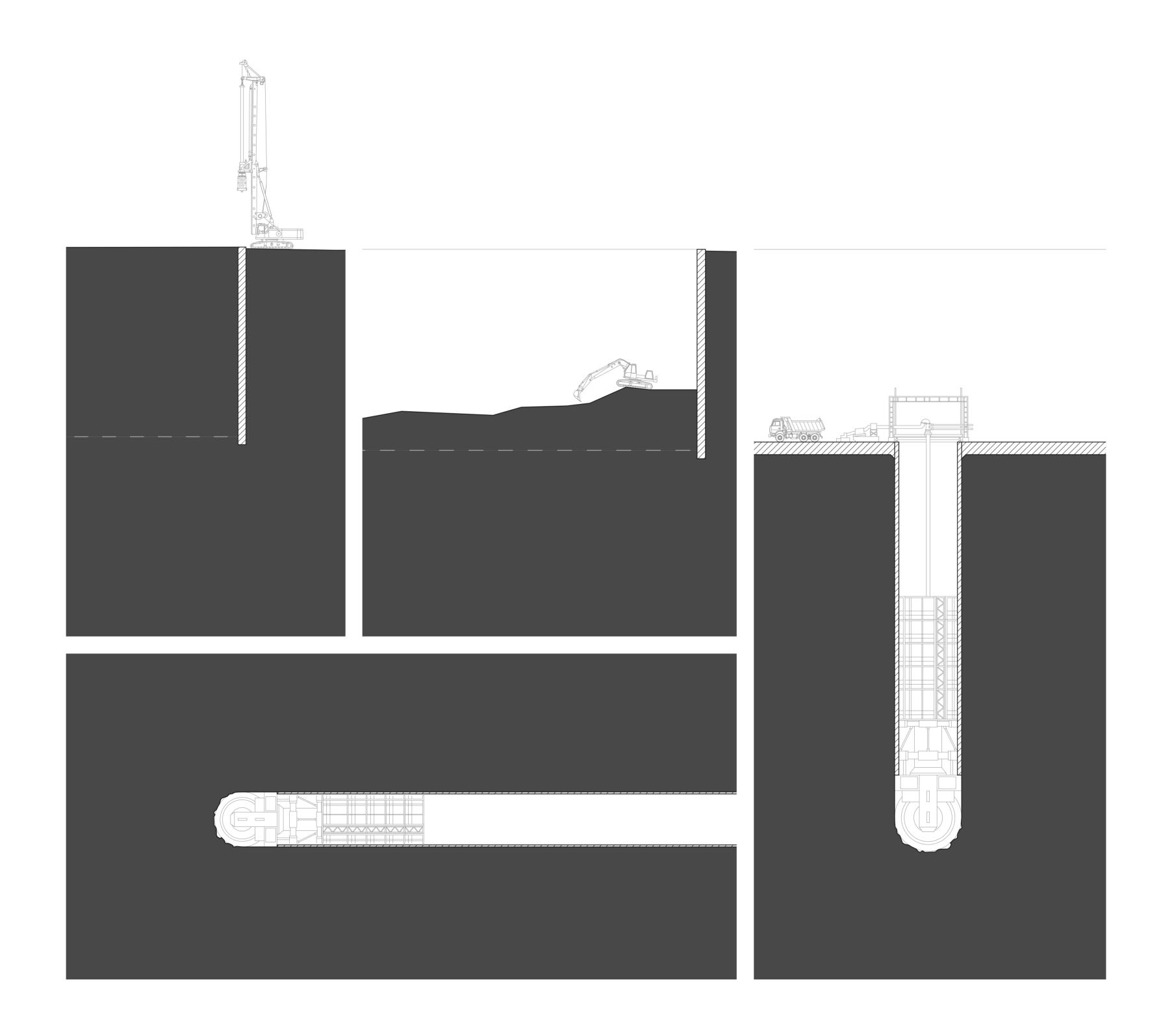
billionaires

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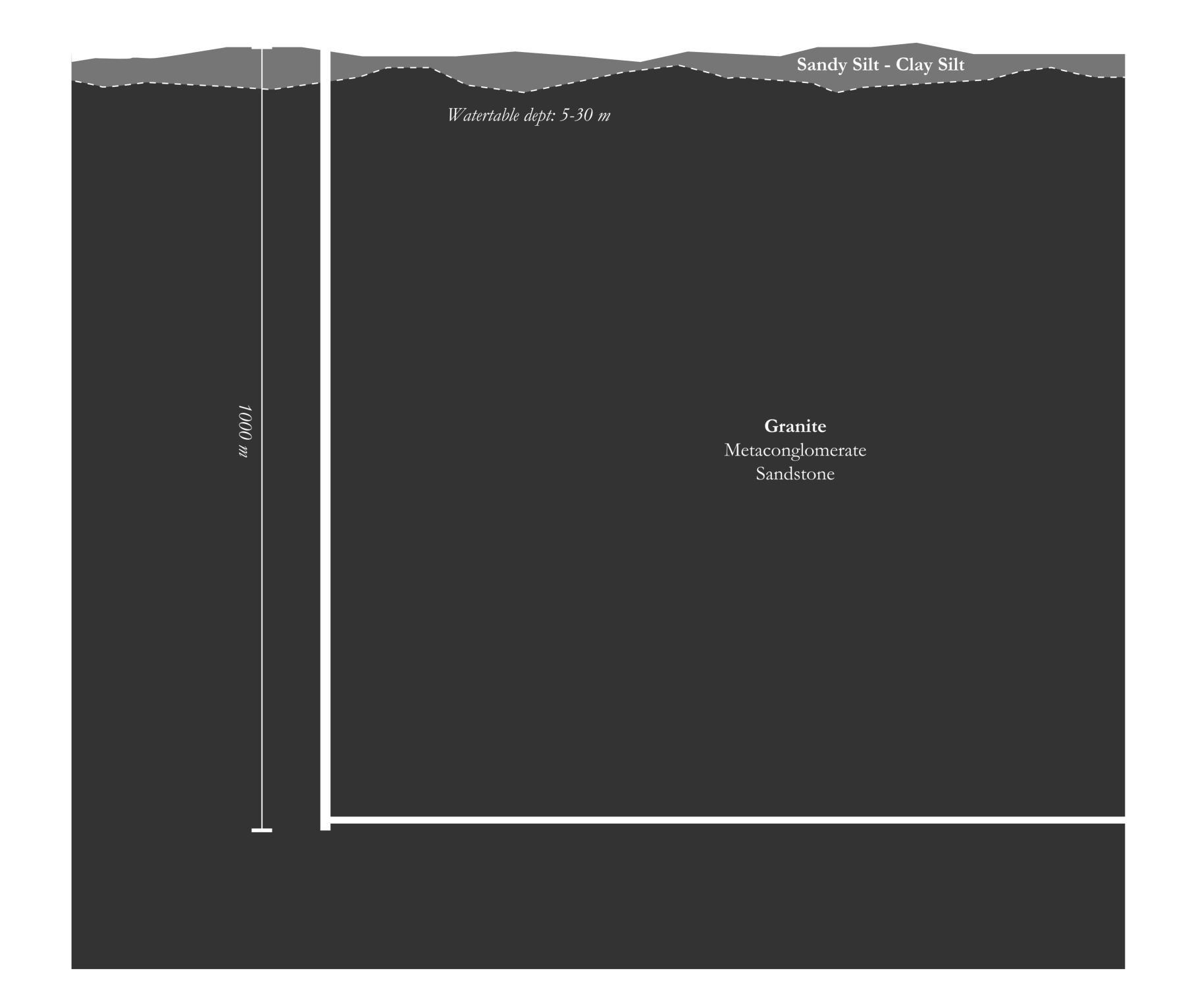
▼ Why you can trust SCMP

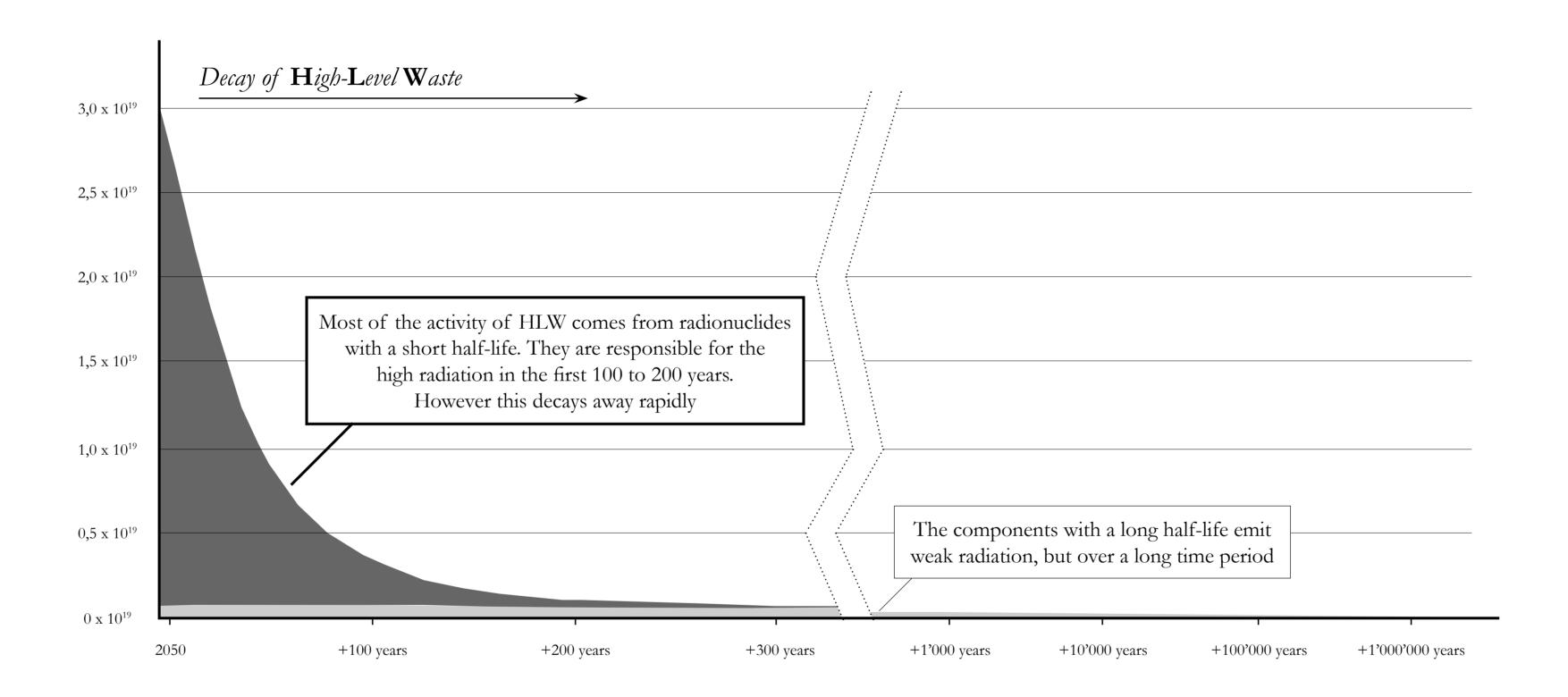
The new Chinese lab, to be built underground in Gansu, will be used to research storage of high-level radioactive waste. Photo: Handout

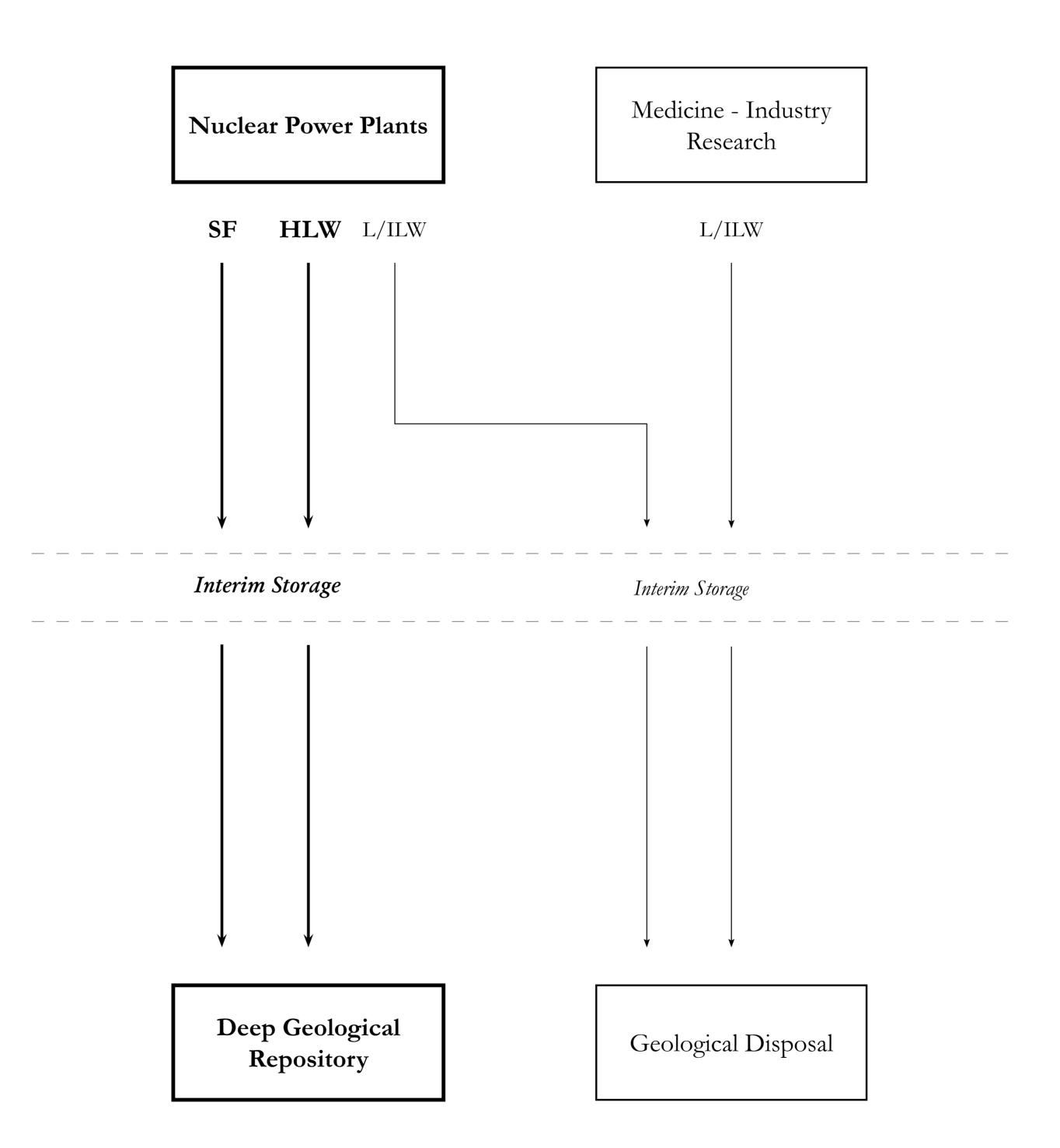
Global Nuclear Agenda



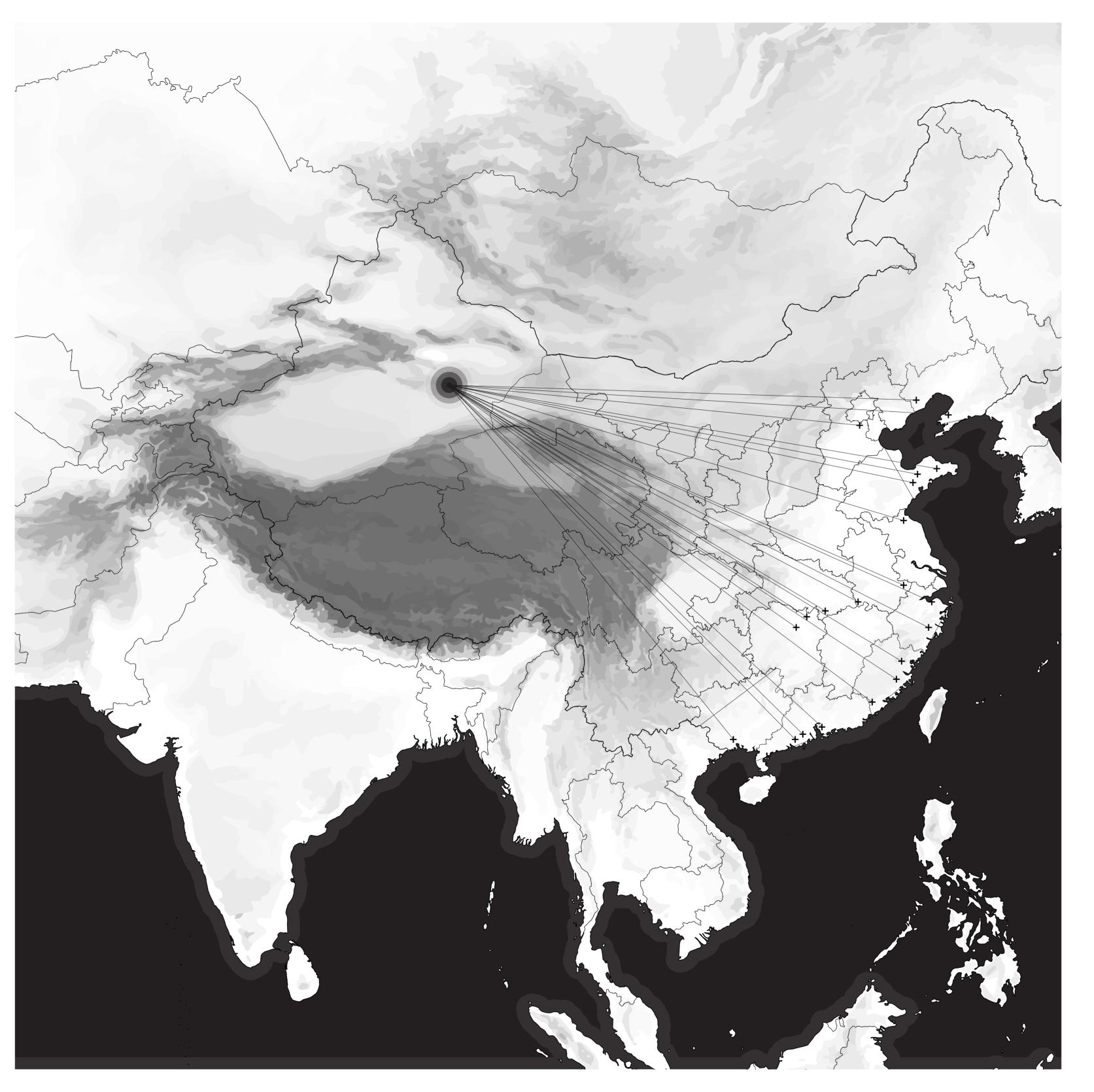
Construction Technicalities
Section



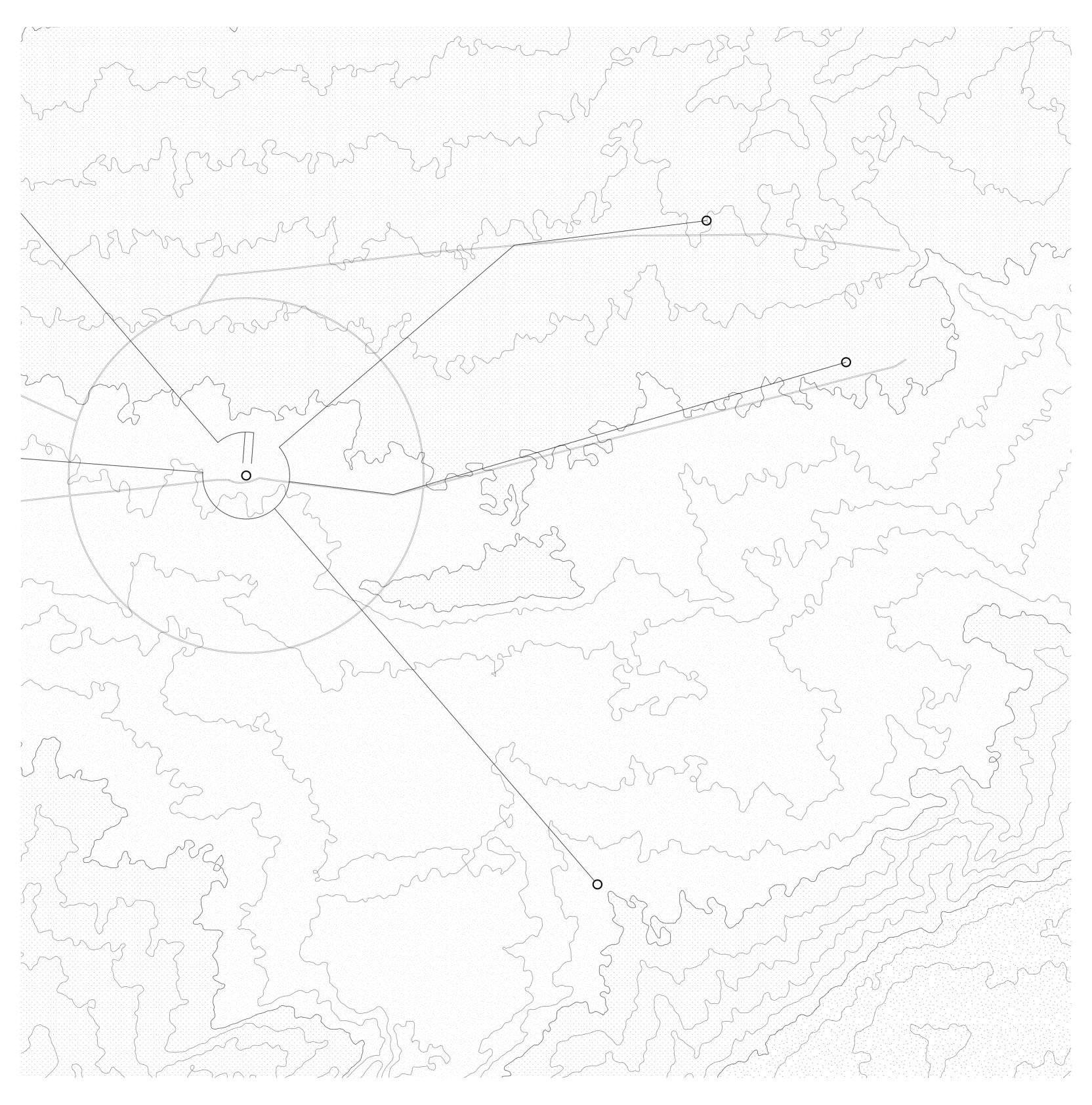




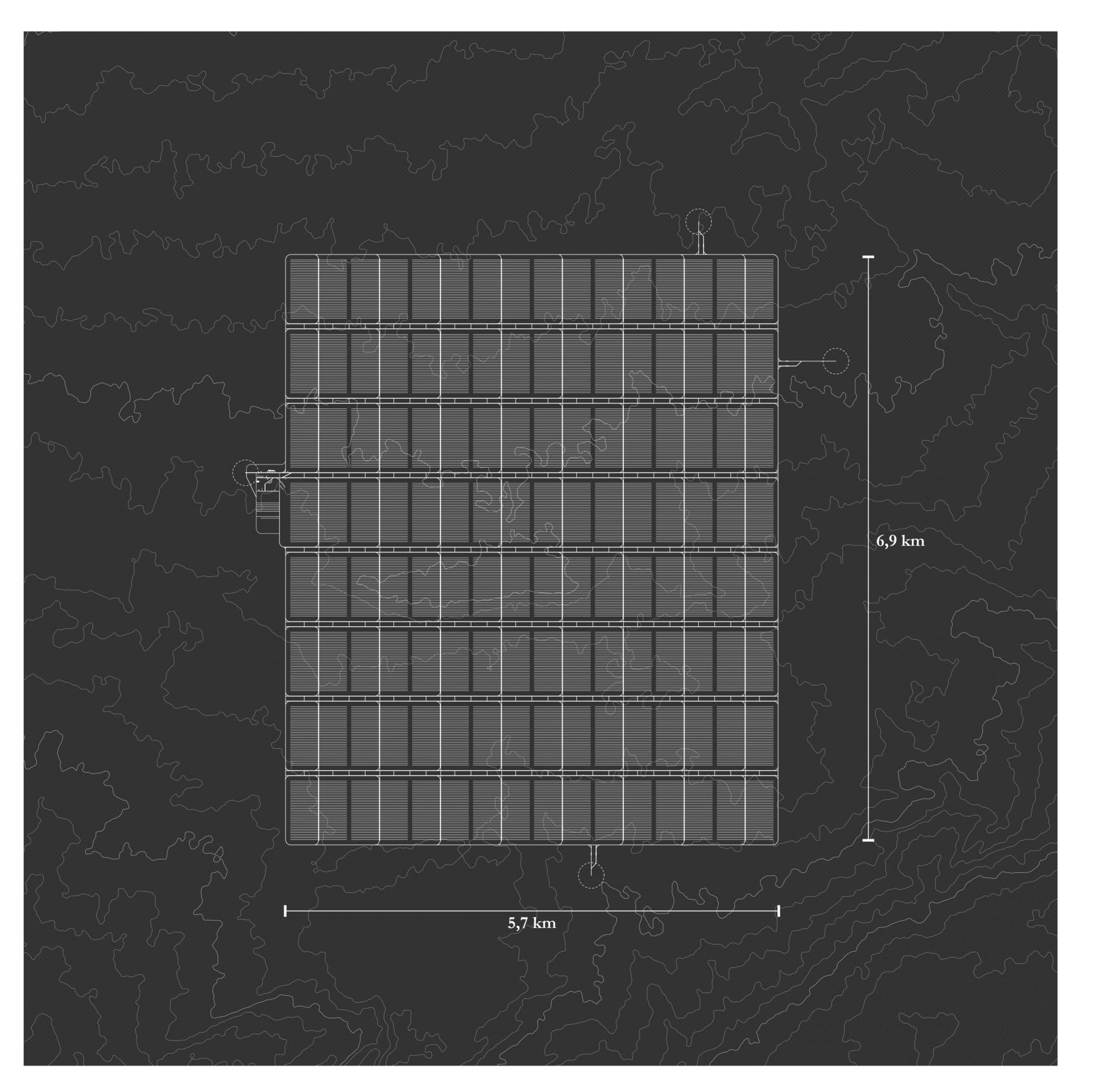
Nuclear Waste Sources



National Infrastructure
Map



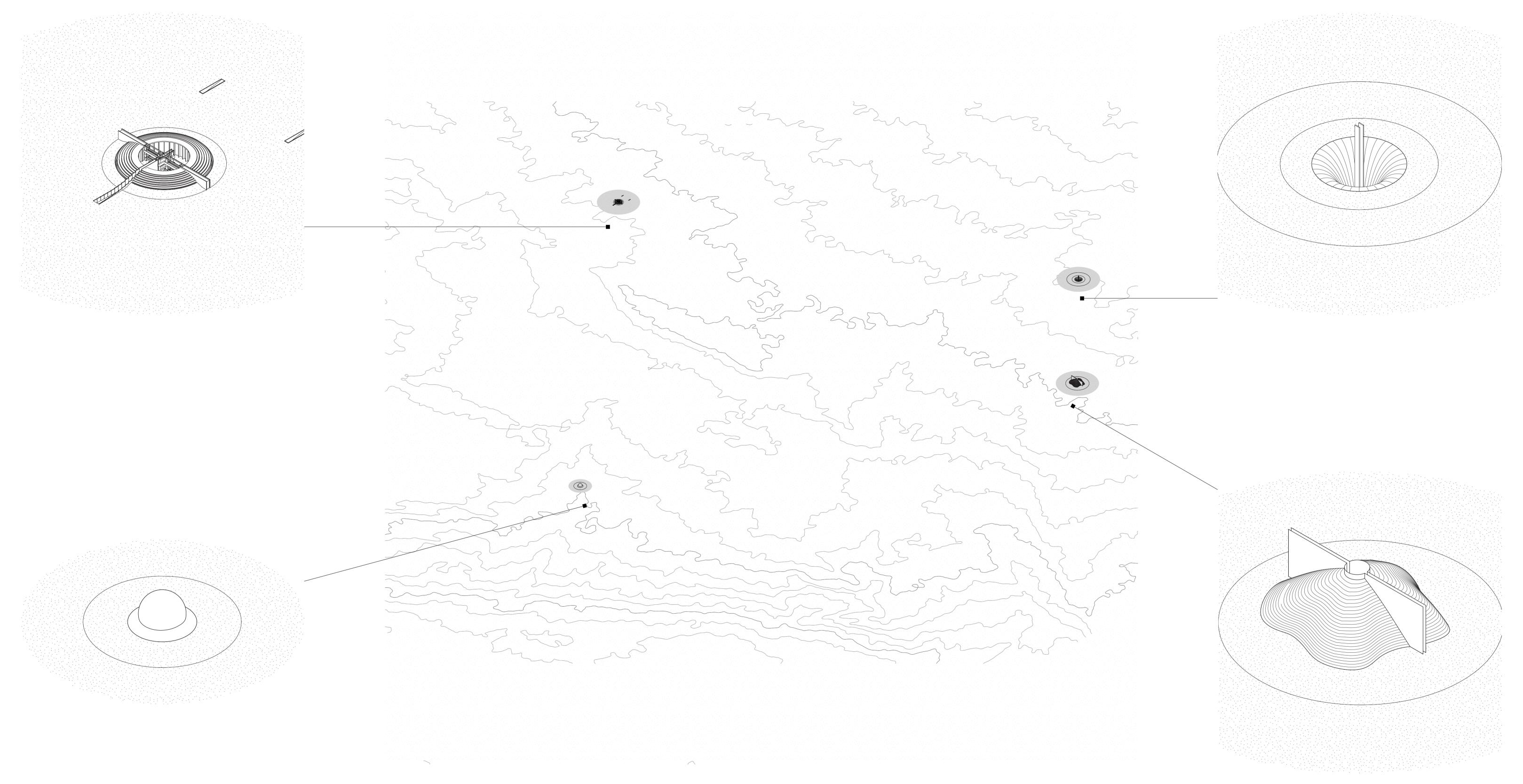
Nuclear Park
Masterplan
1:10000



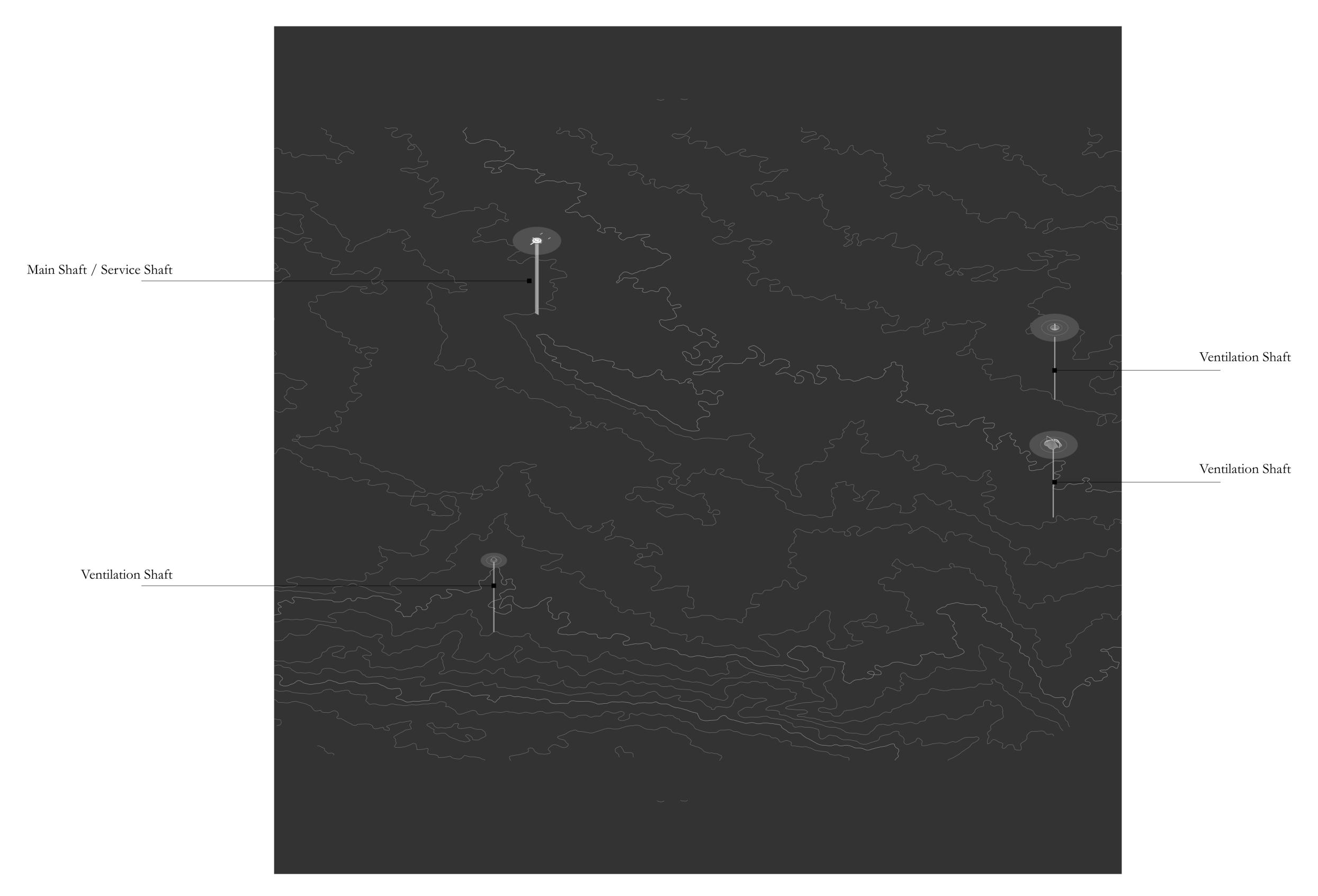
Deep Geological Repository

Masterplan

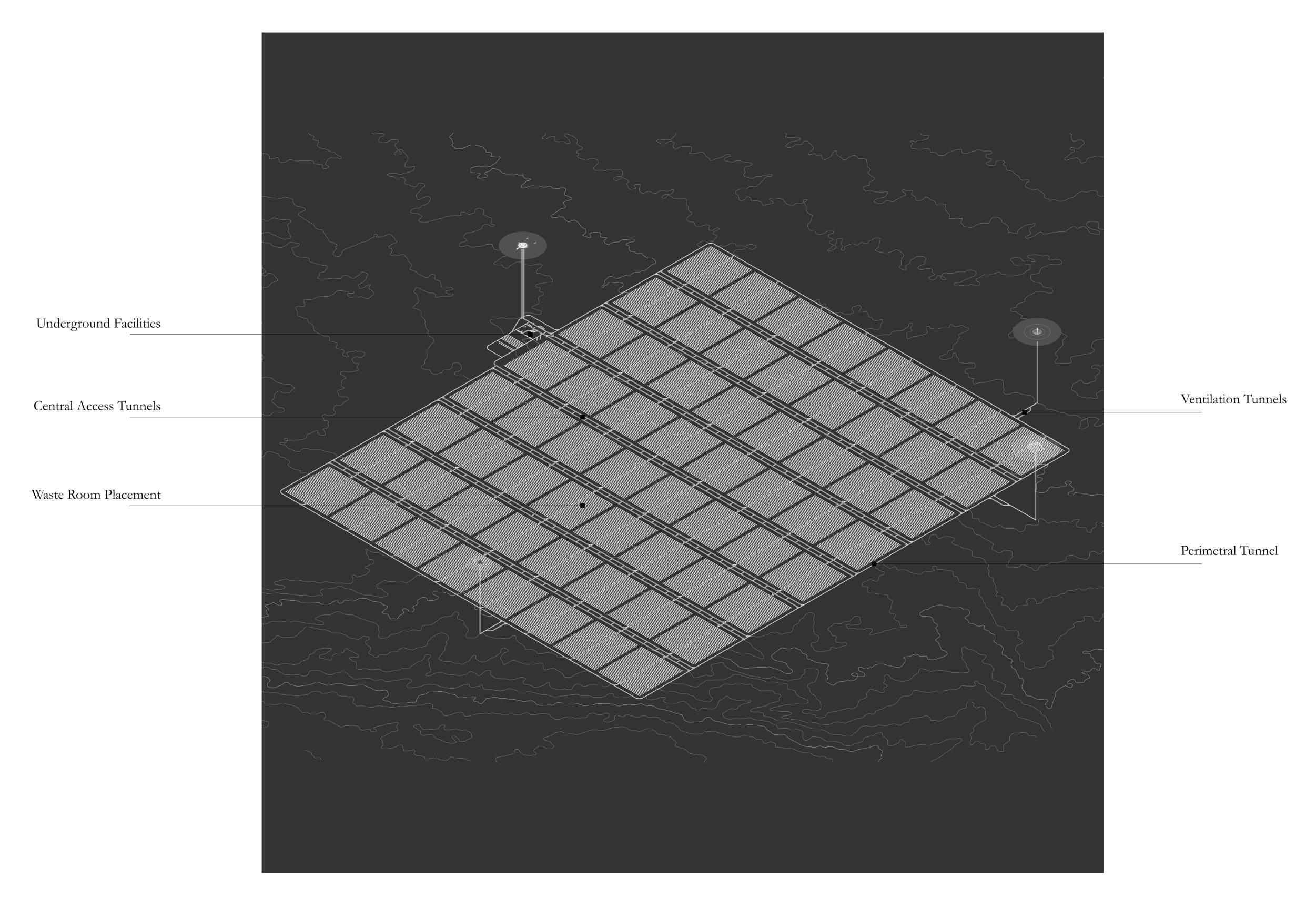
1:10000



Memorials
Axonometrc

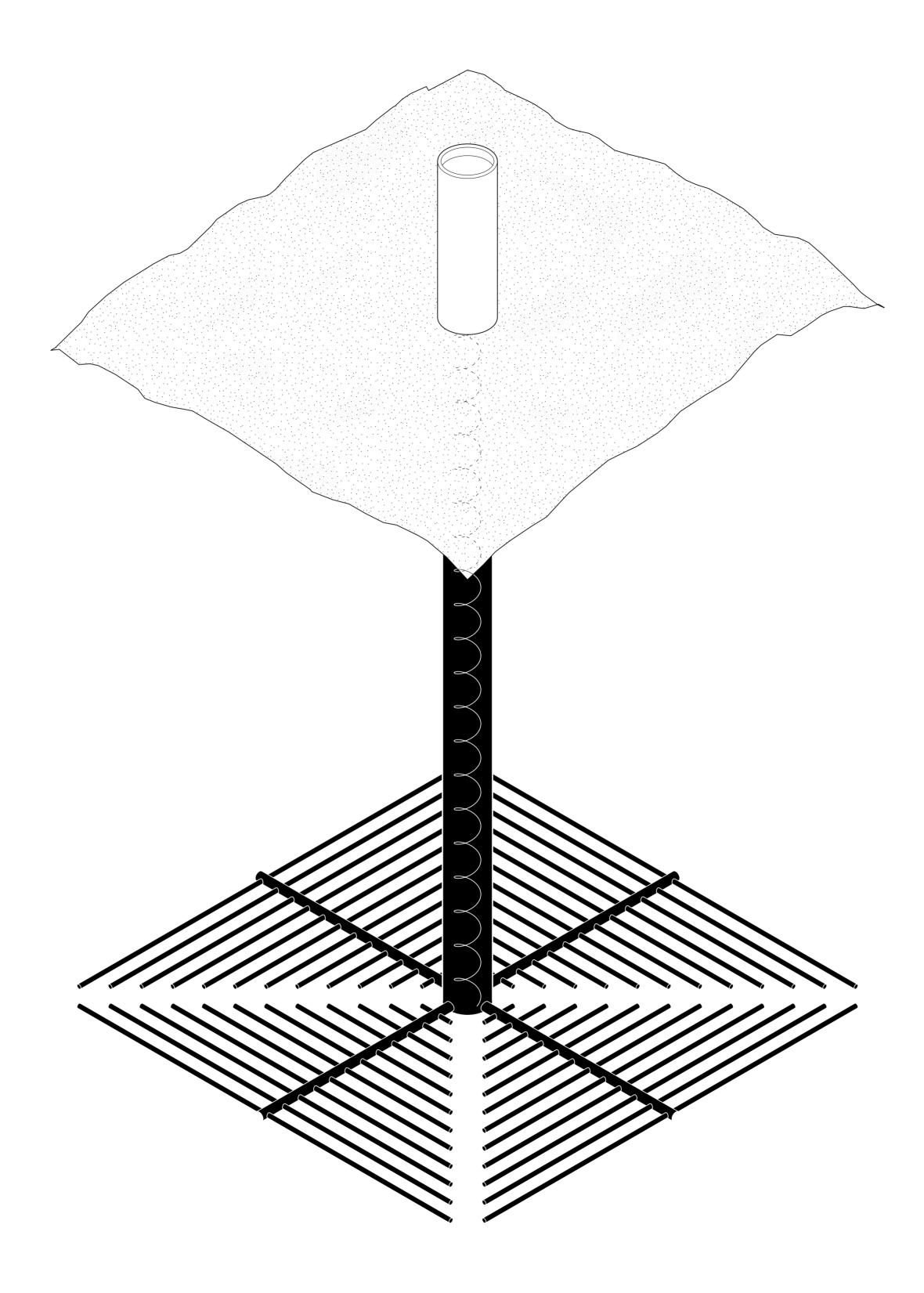


Shafts / Entrences
Axonometrc

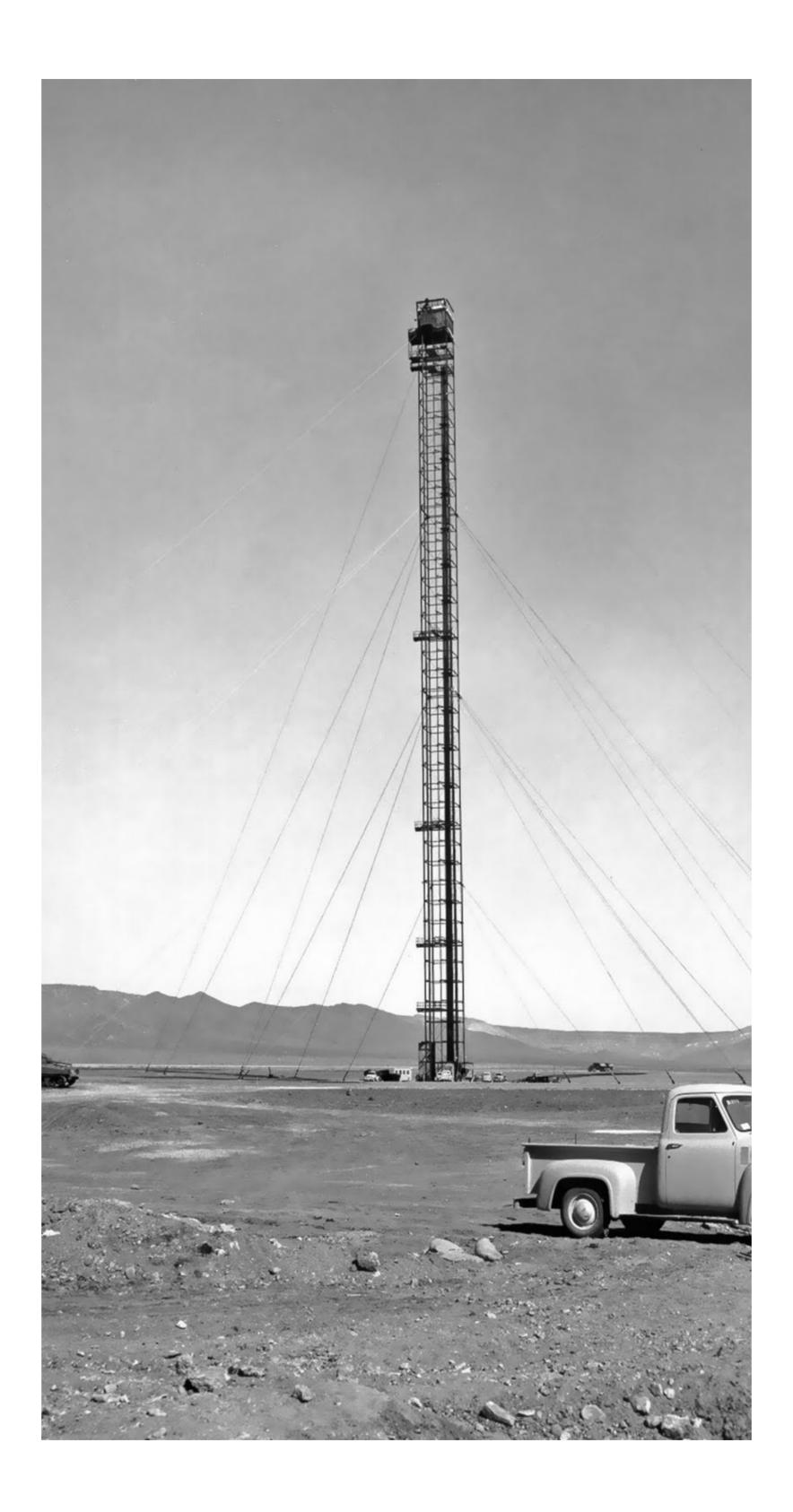


Deep Geological Repository
Axonometro

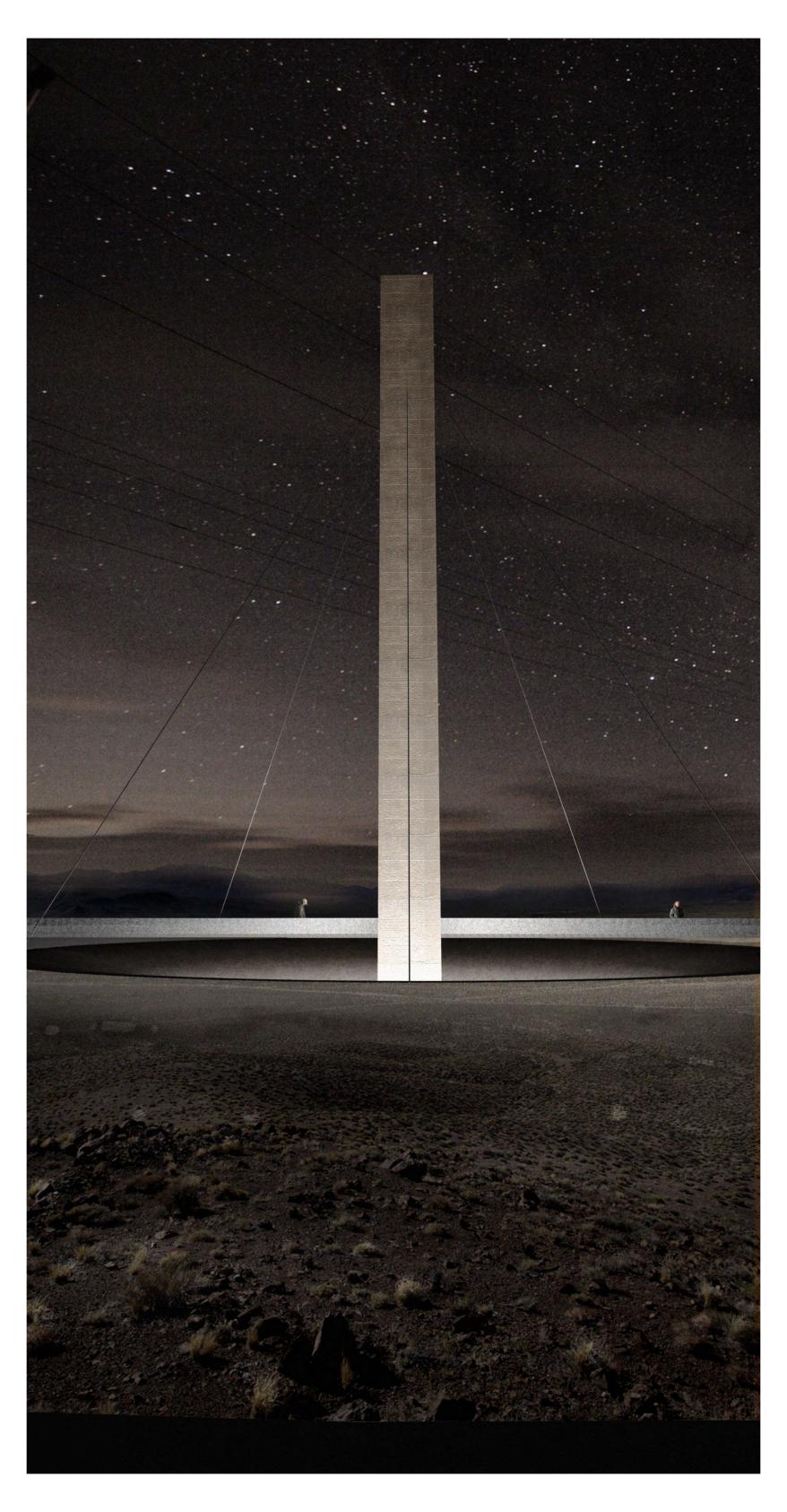
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Hidden Exploitation
Axonometre



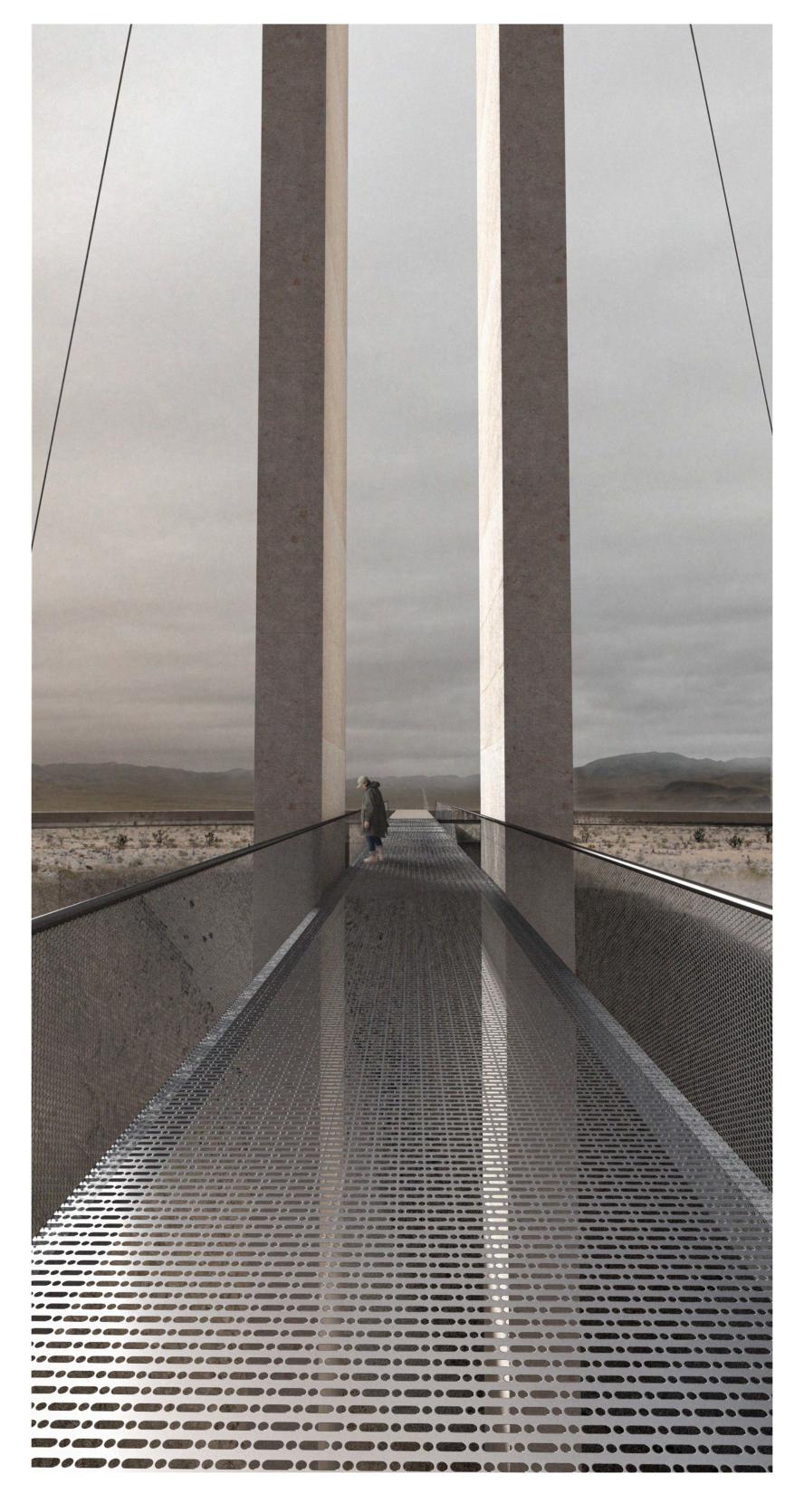
Monument #2 - Testing Tower



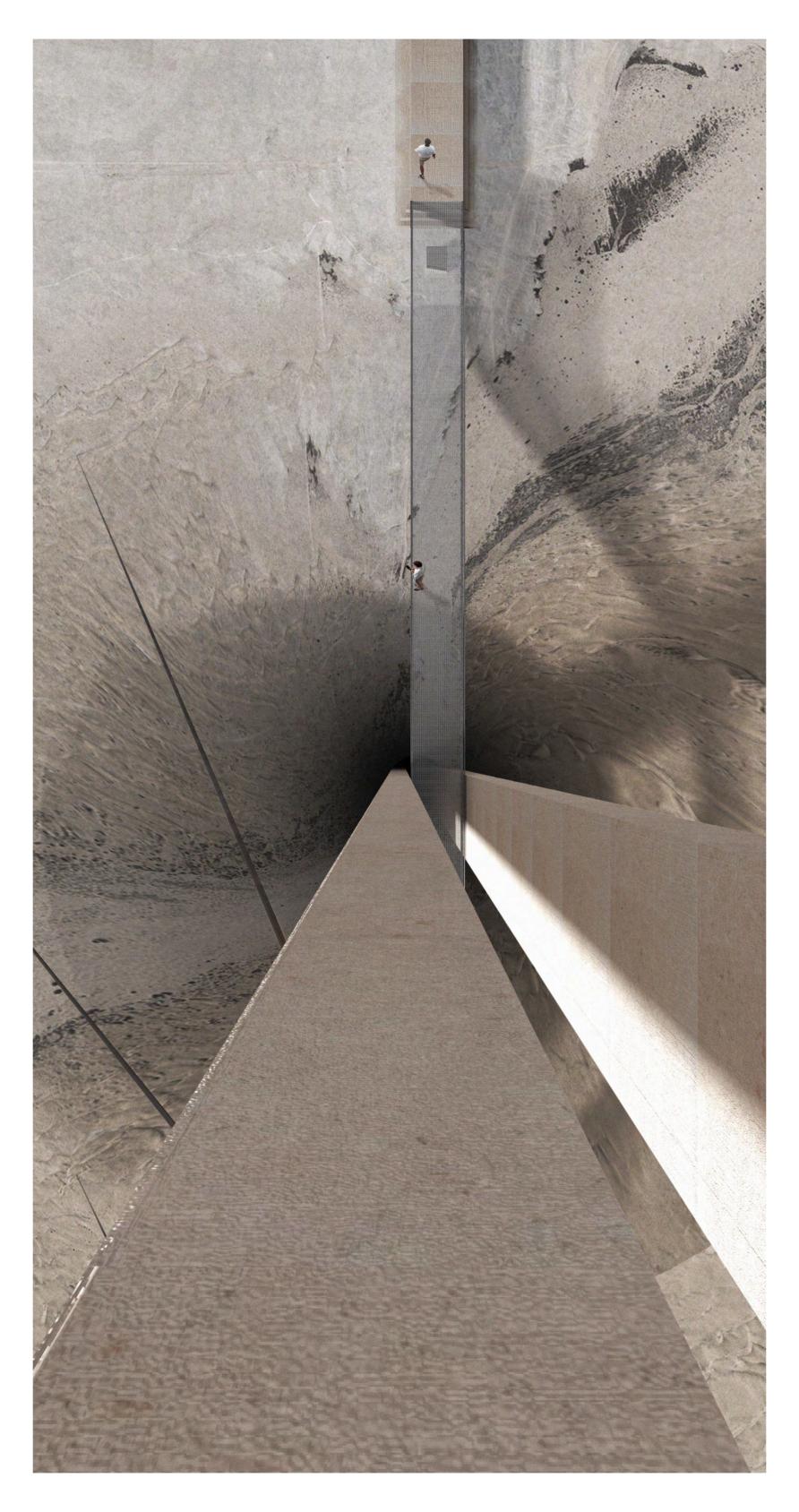
Approach | Night Visual



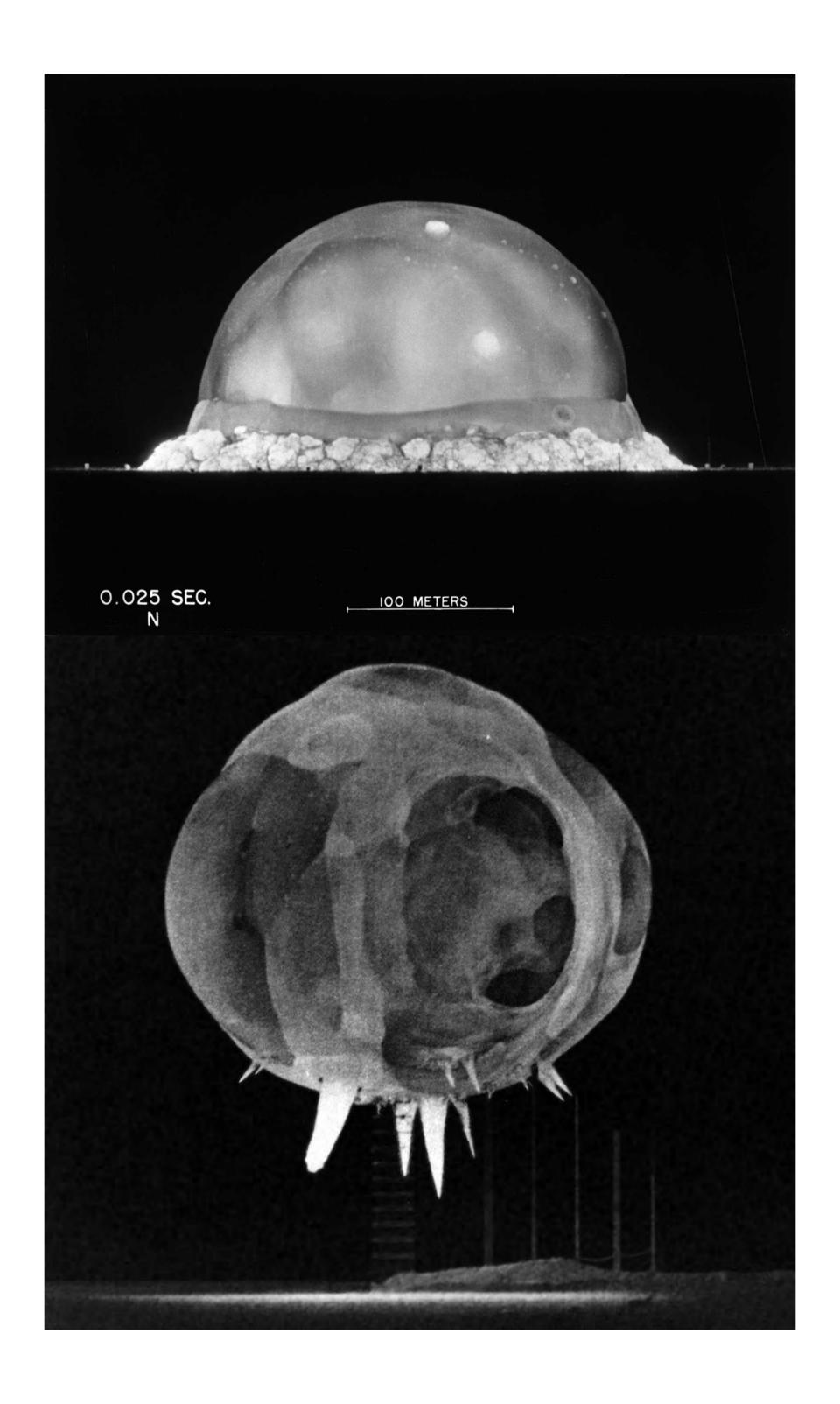
Approach | Day Visual



WalkwayVisual



Top of the Tower
Visual



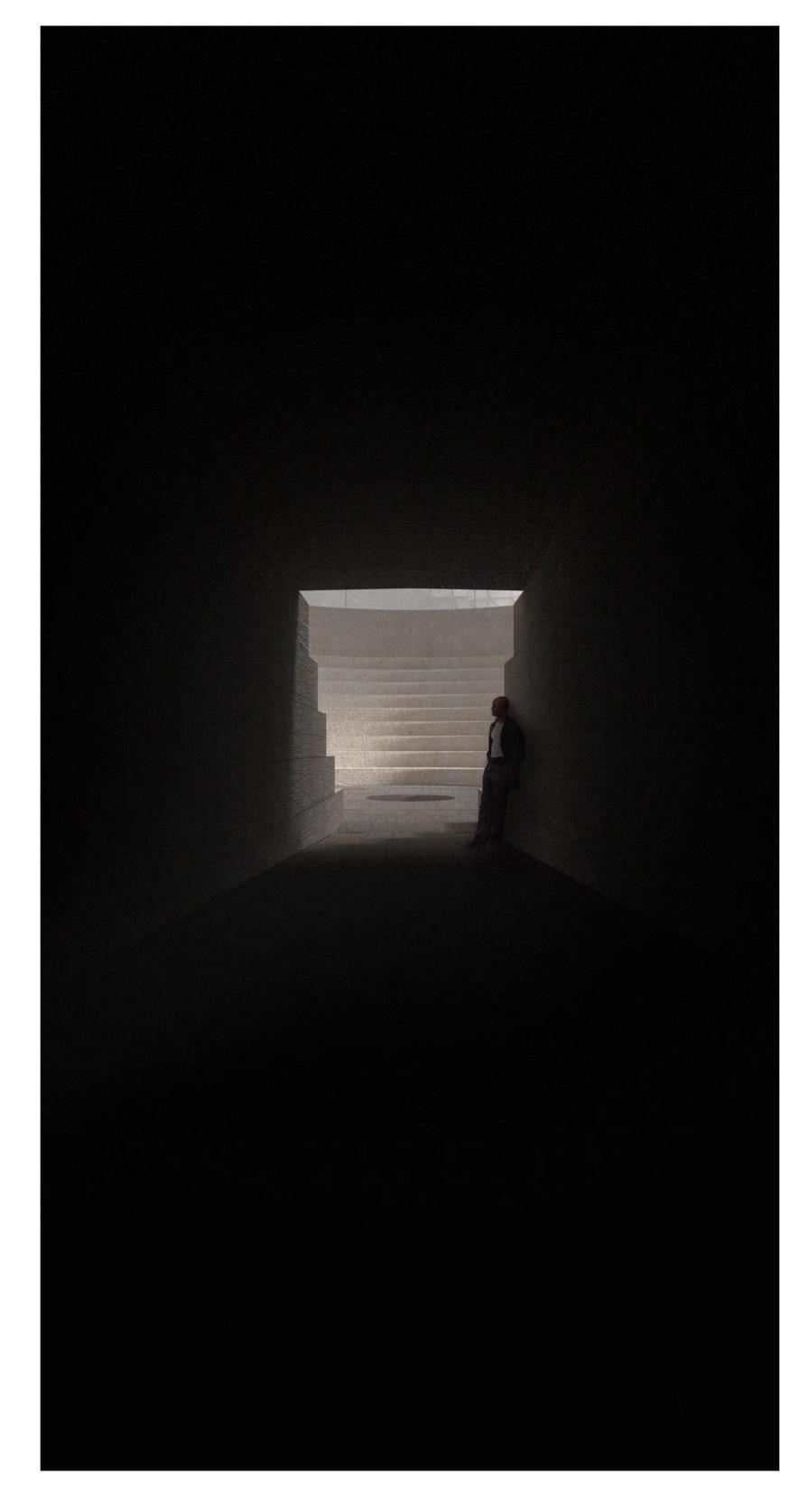
Monument #2 - Fireball Explosion



Approach | Night Visual

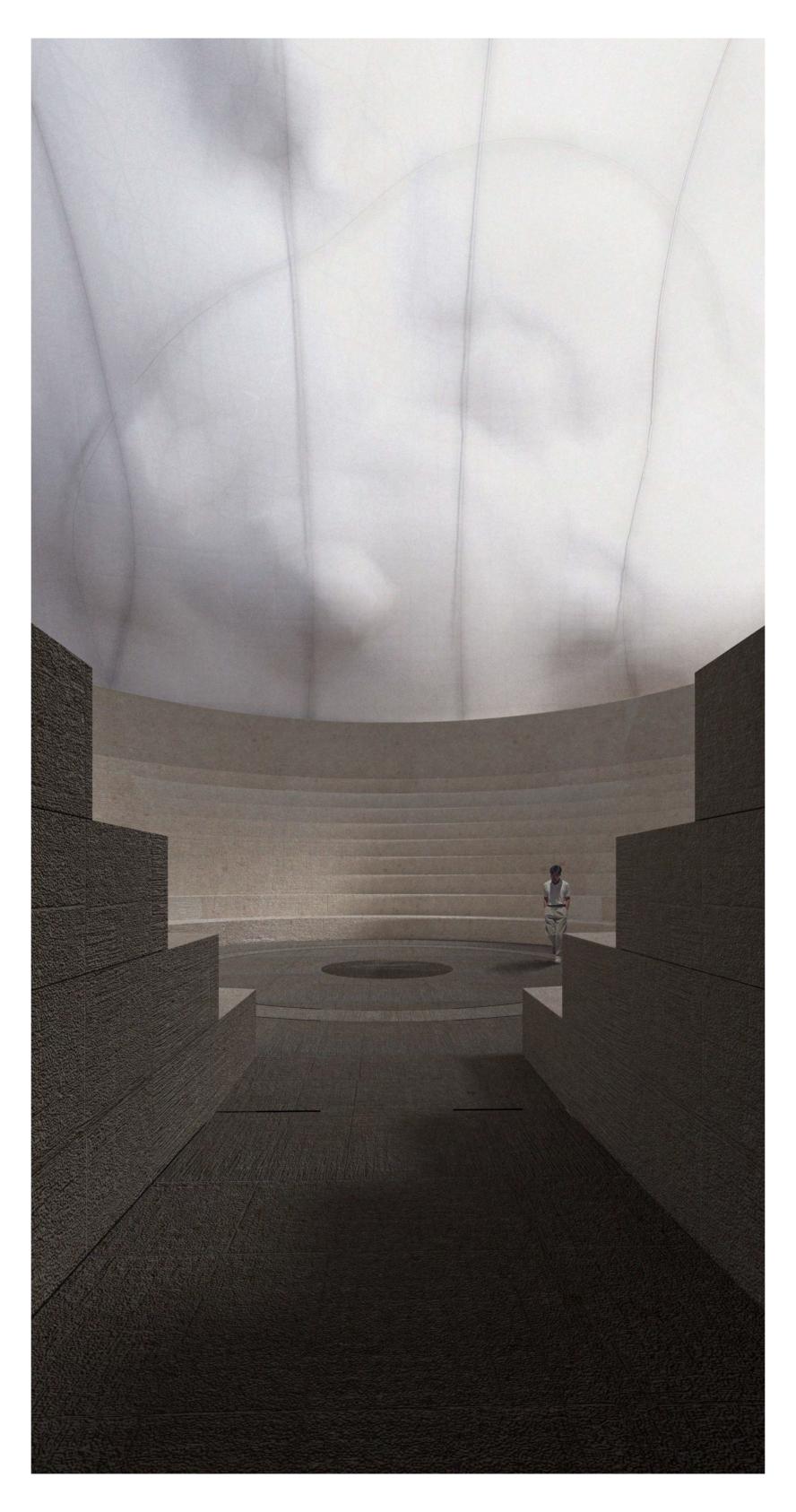


Approach | Day Visual



Threshold Visual

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Spectating at the Explosion Visual



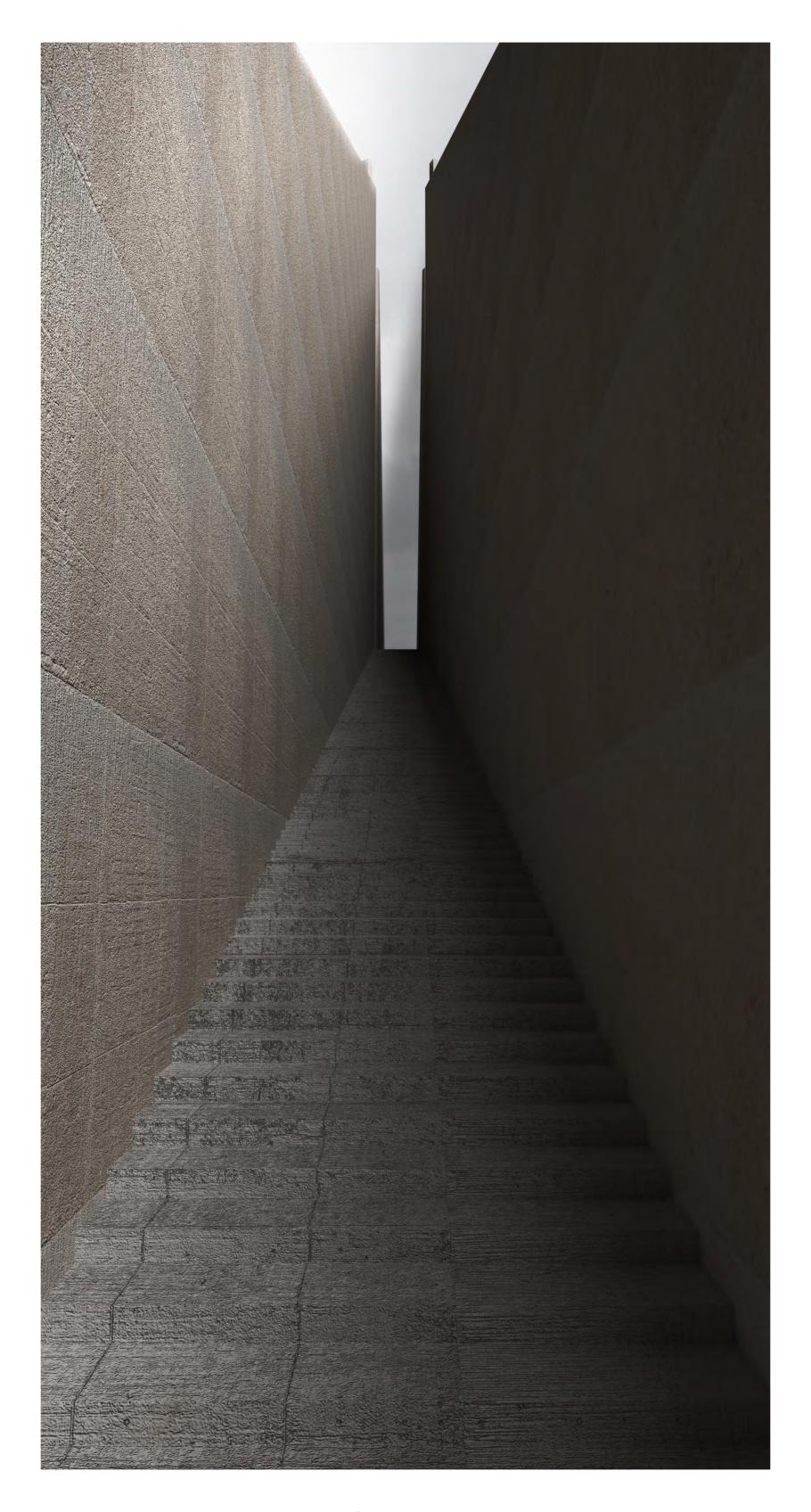
Monument #3 - Ore Hill



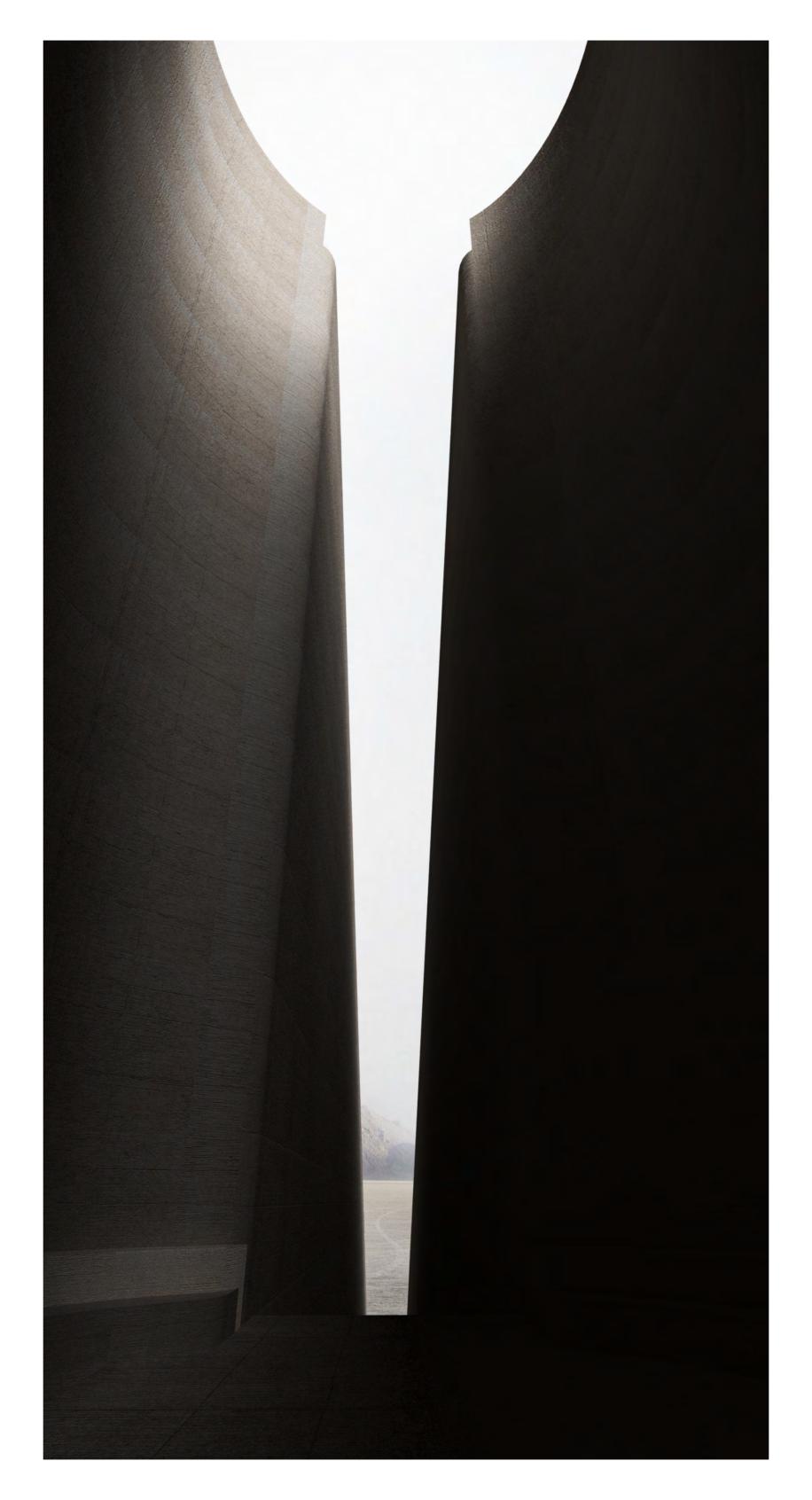
Approach | Night Visual



Approach | Day Visual



Staircase Visual



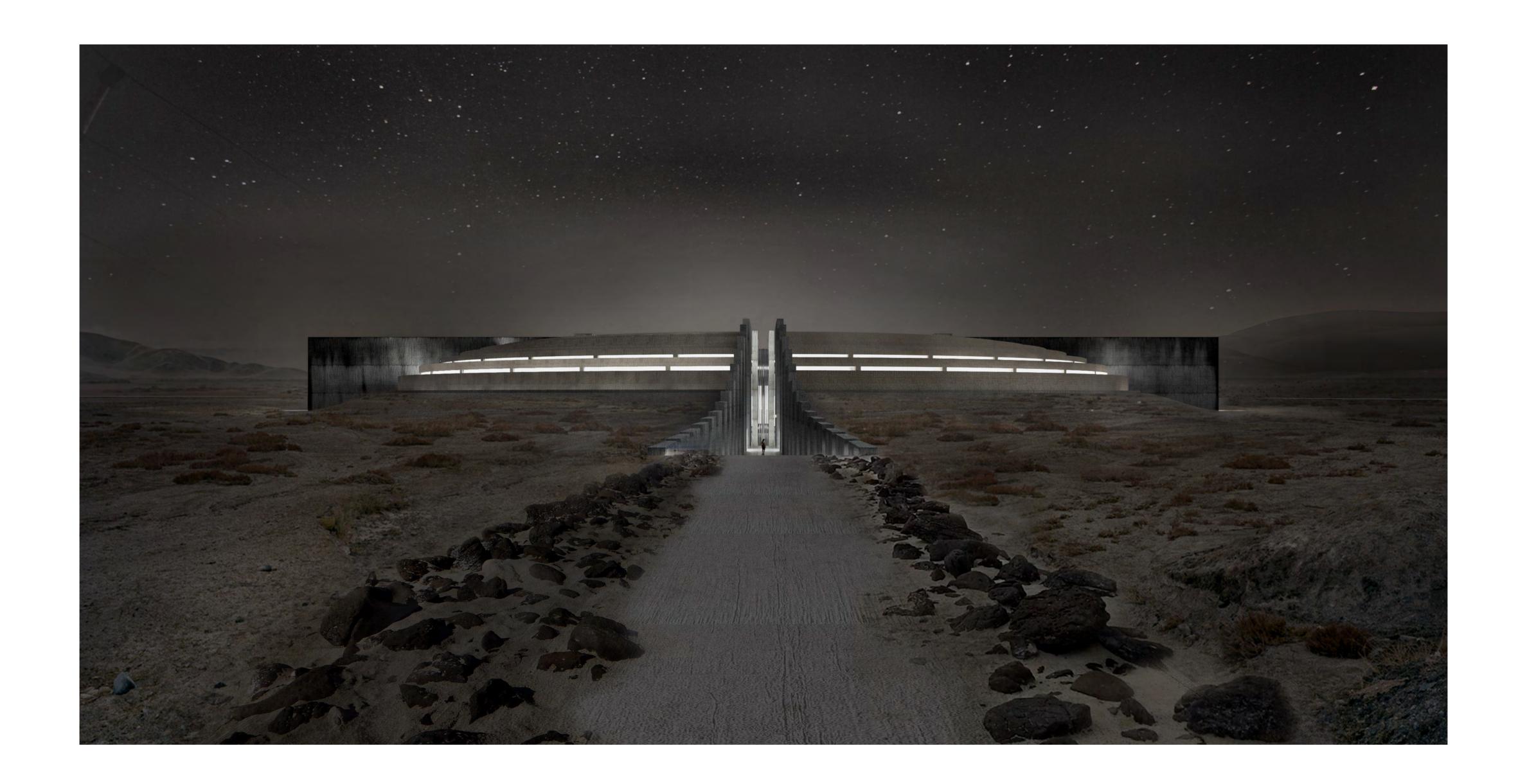
Centre Visual



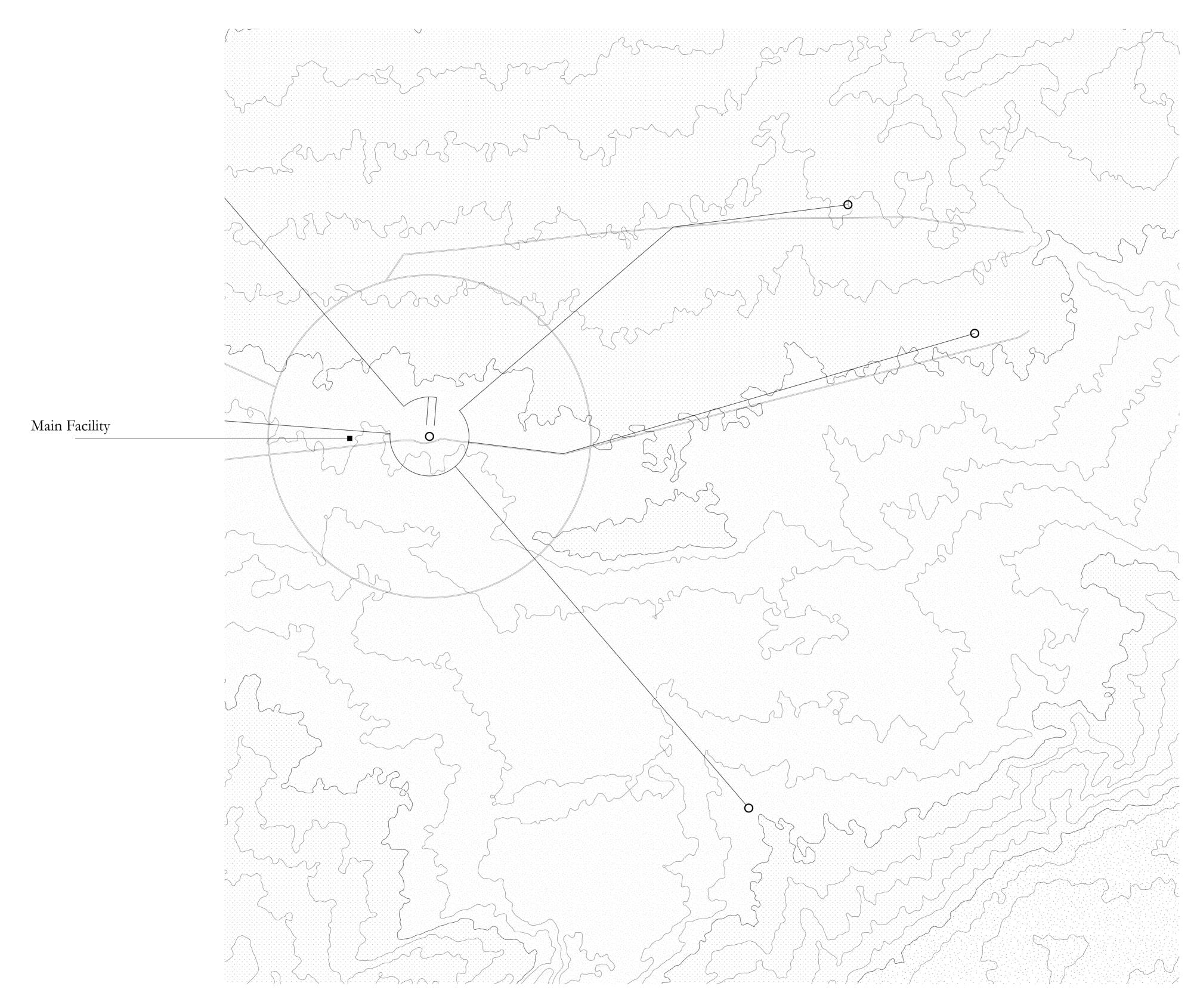
Monument #4 - Shelter | Bunker



Approach | Day Visual



Approach | Night Visual

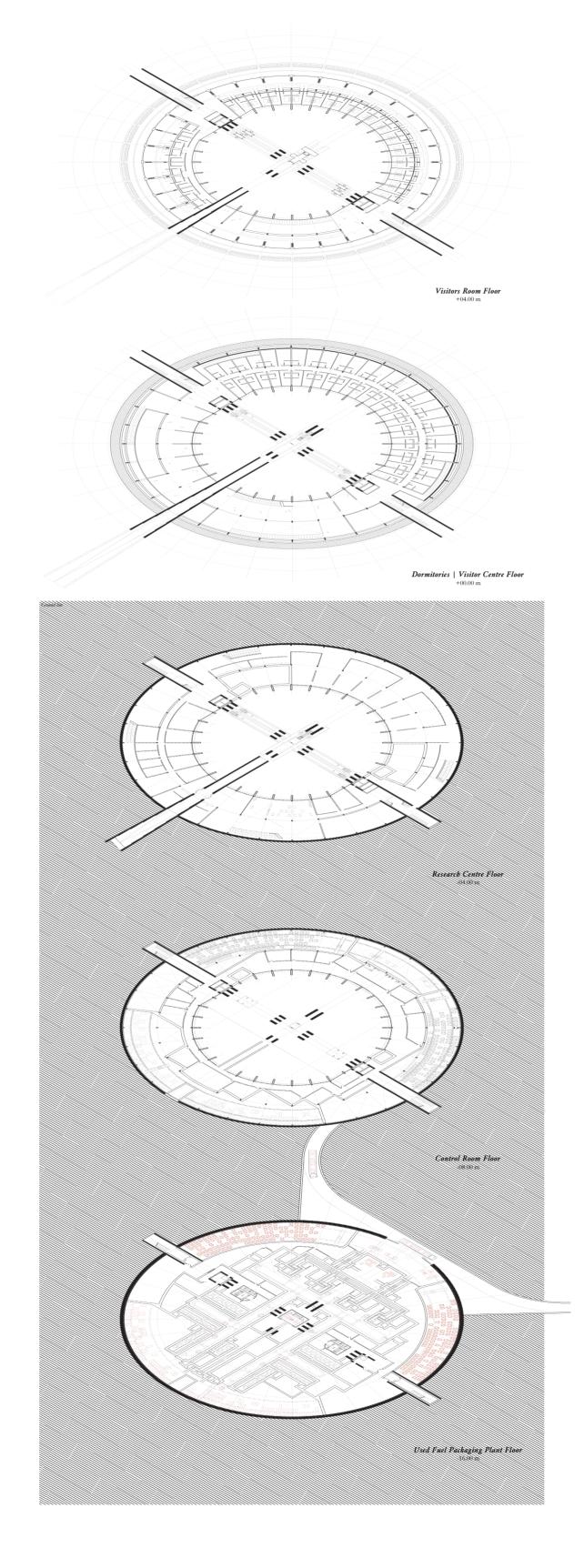


Nuclear Park
Masterplan
1:10000



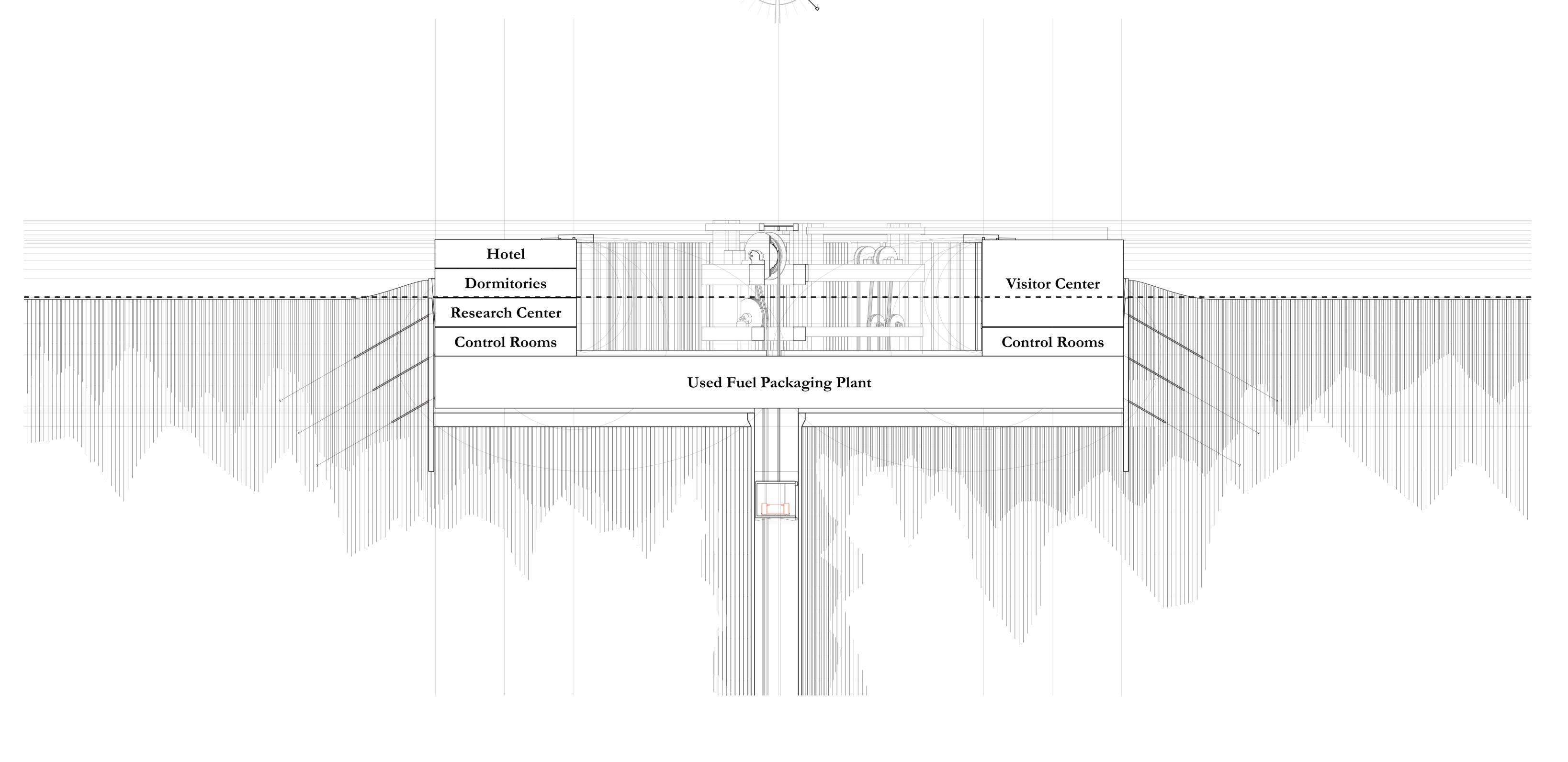
Site Satellite Image



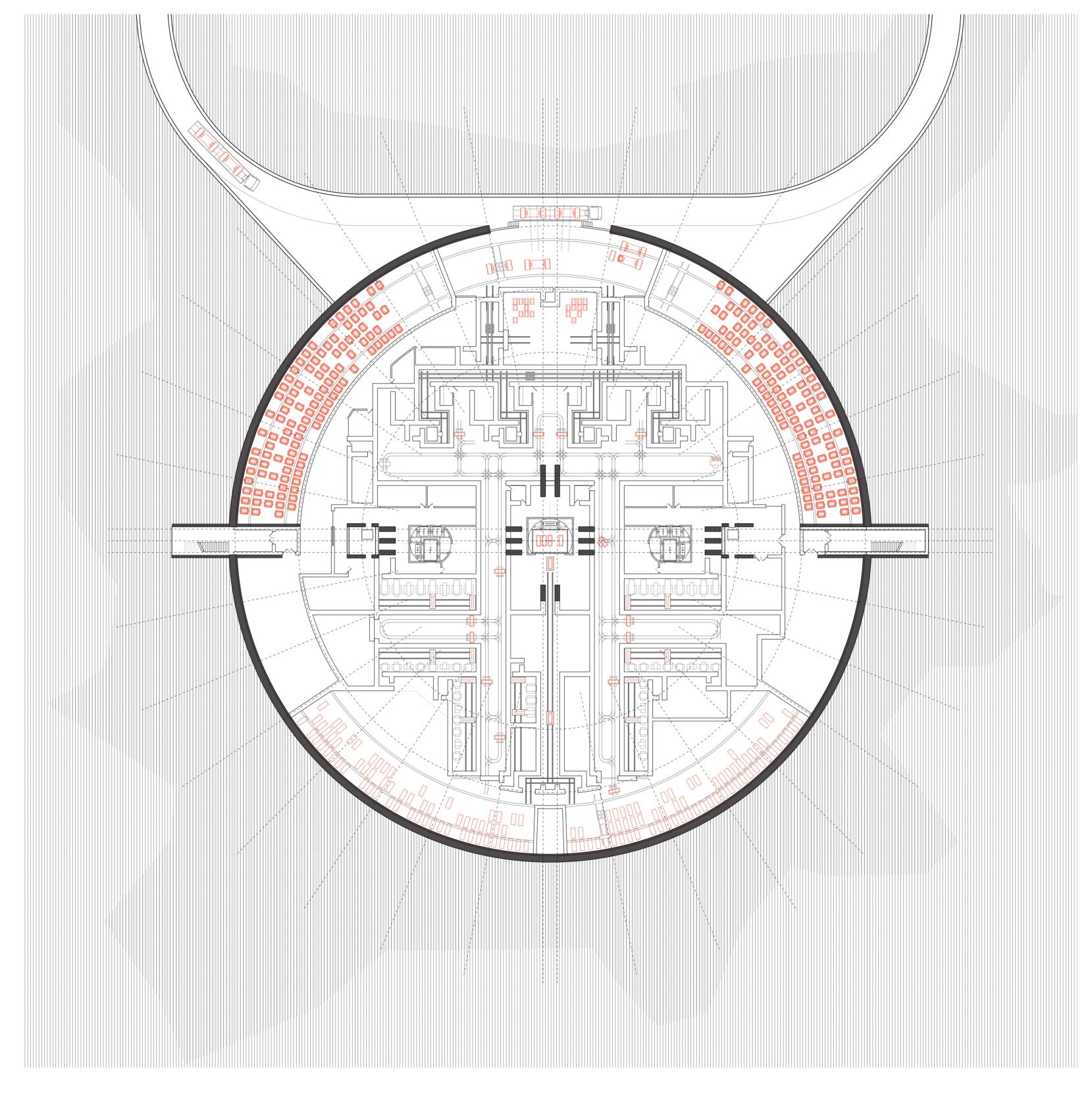


Exploded Levels
Axon

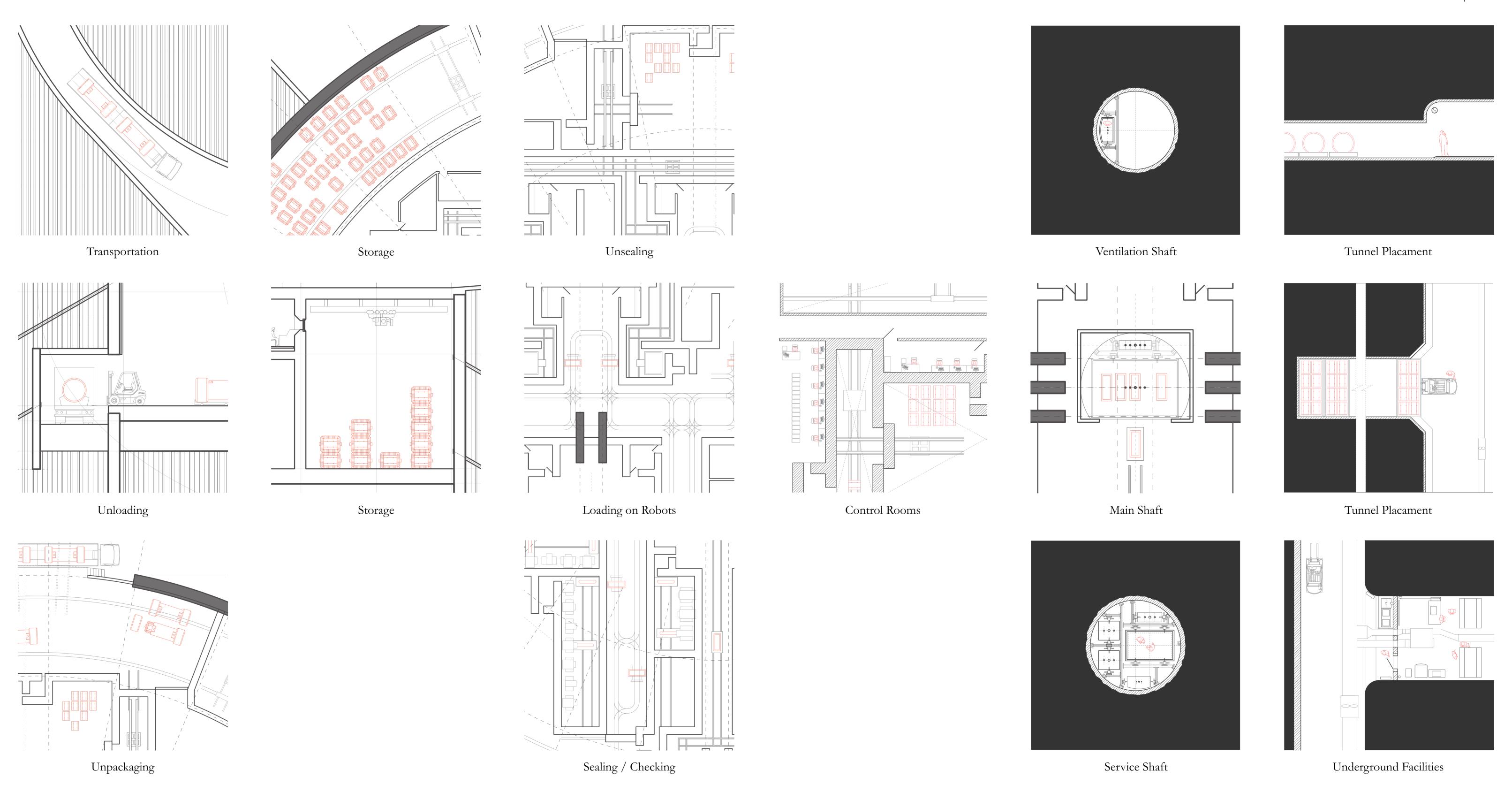
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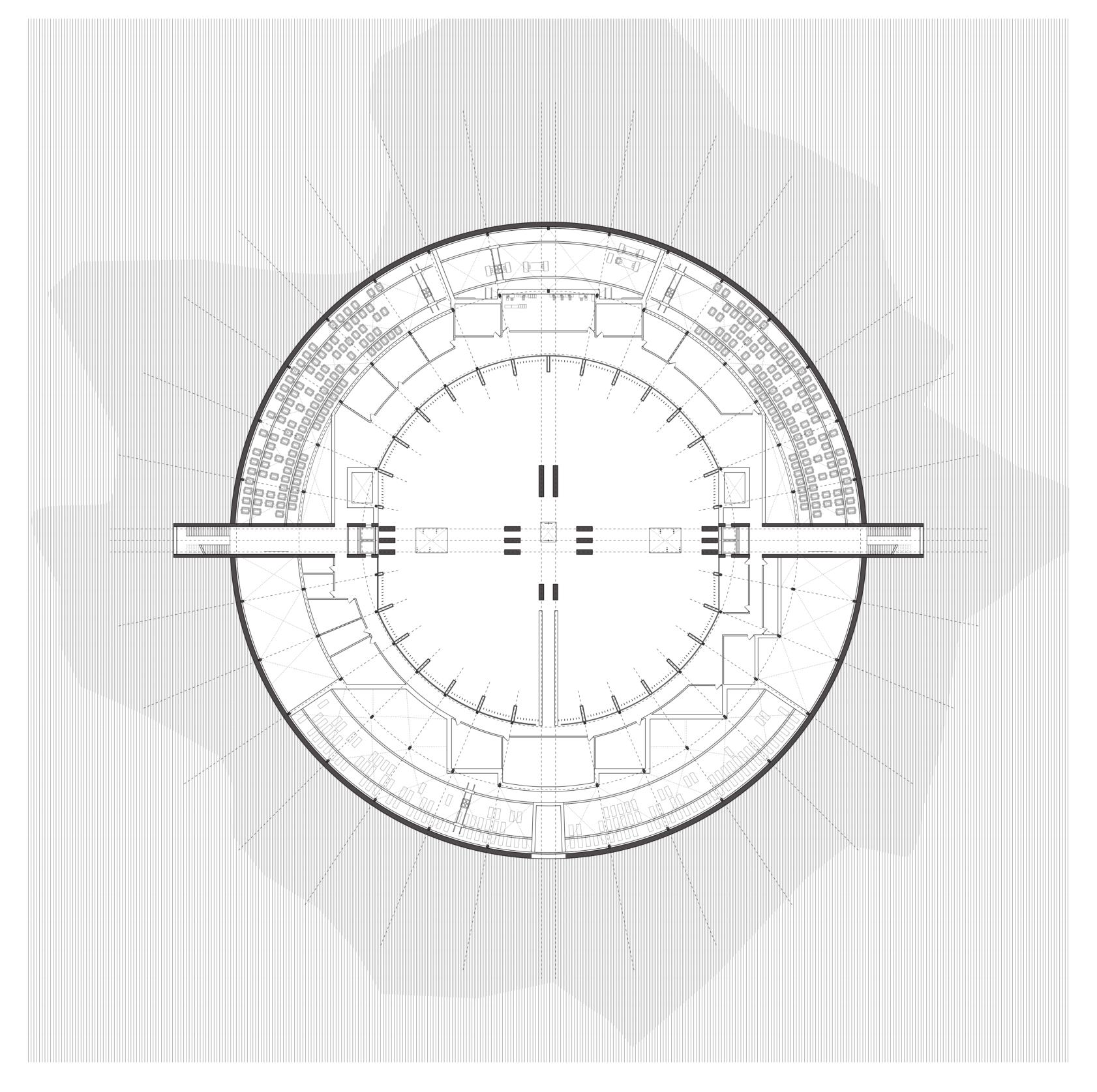




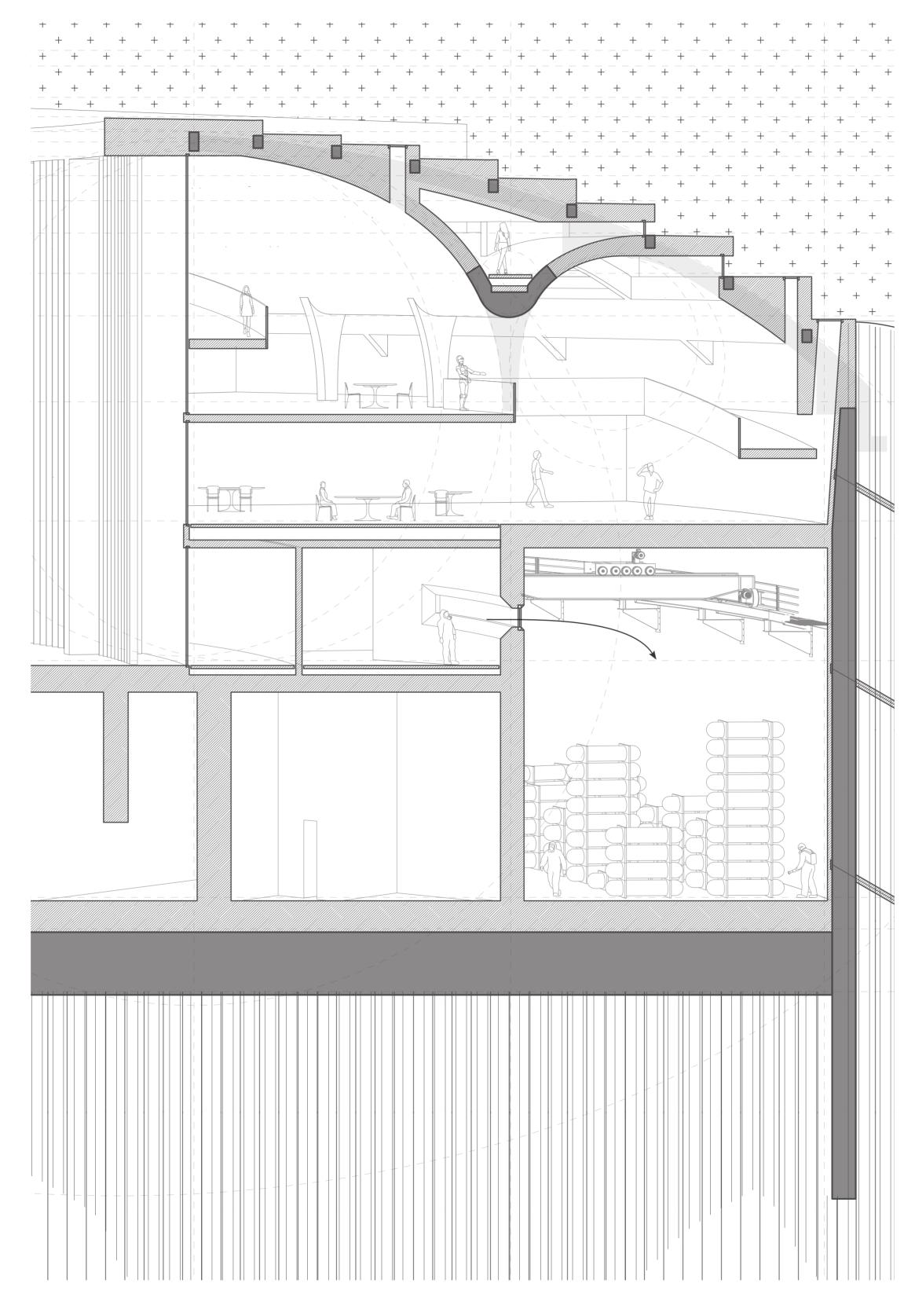
Used Fuel Packaging Plant Floor
-16.00 meters
1:200





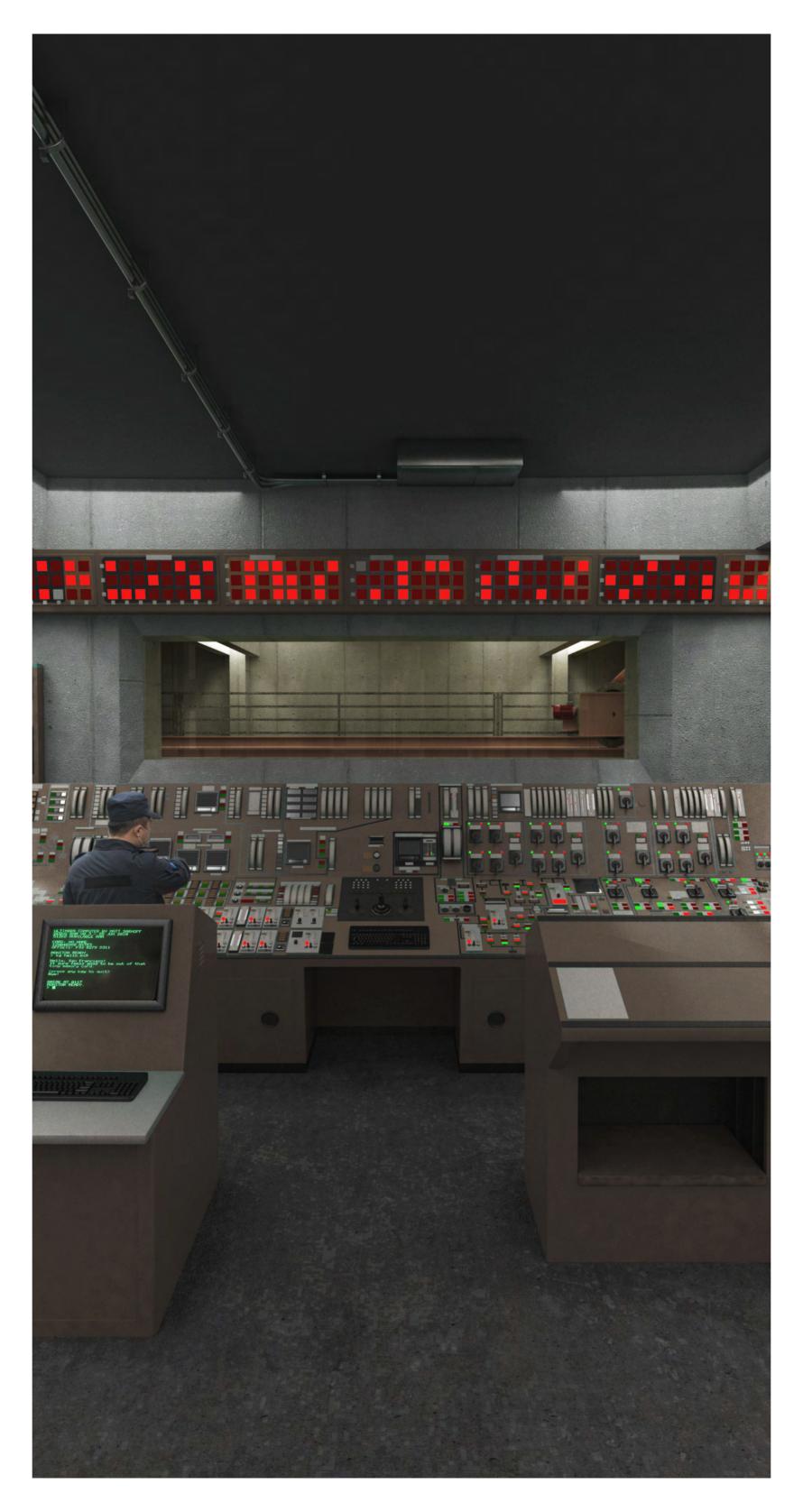


Control Room Floor
-08.00 meters
1:200

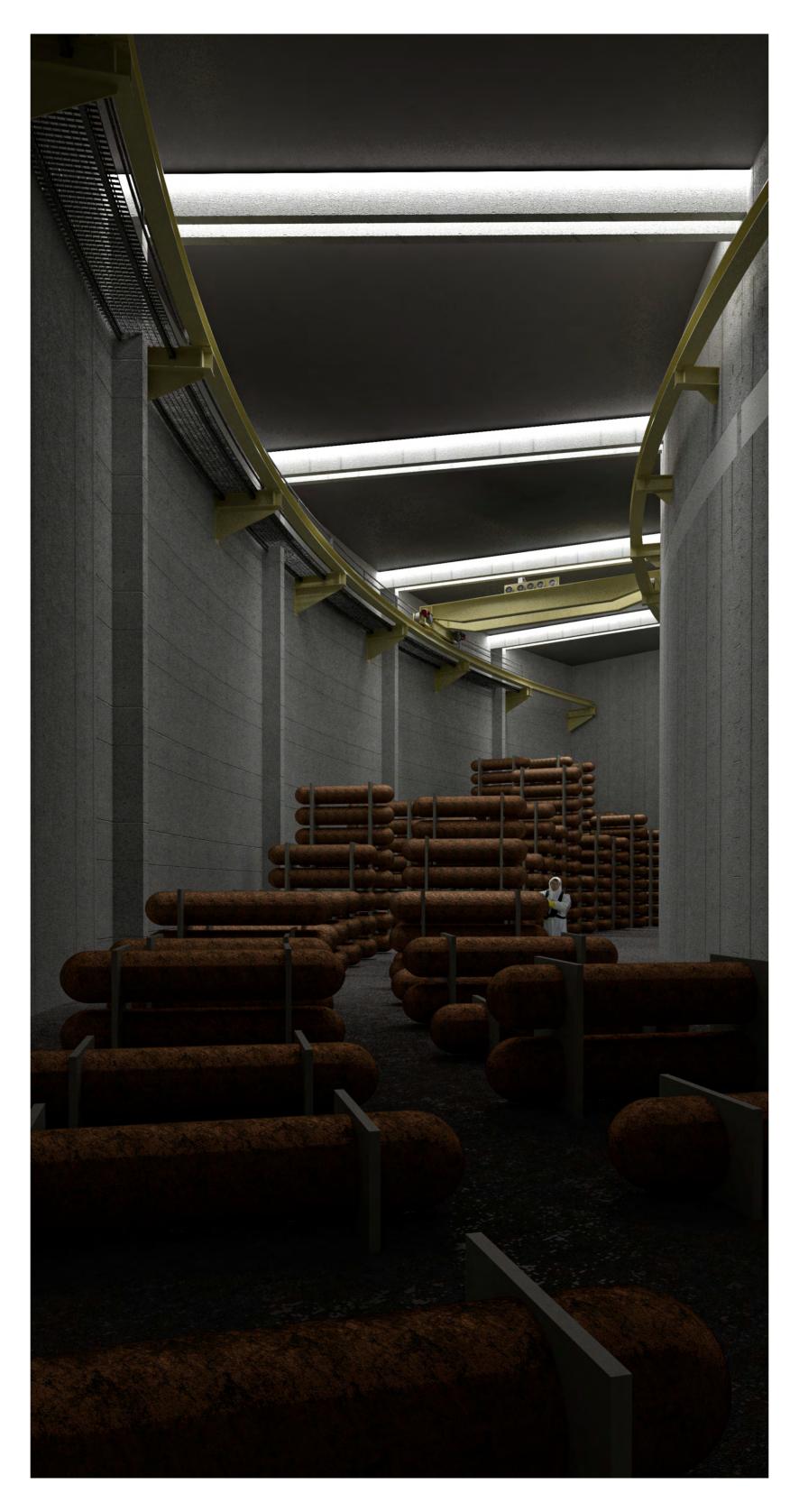


Control Rooms

Section *1:200*

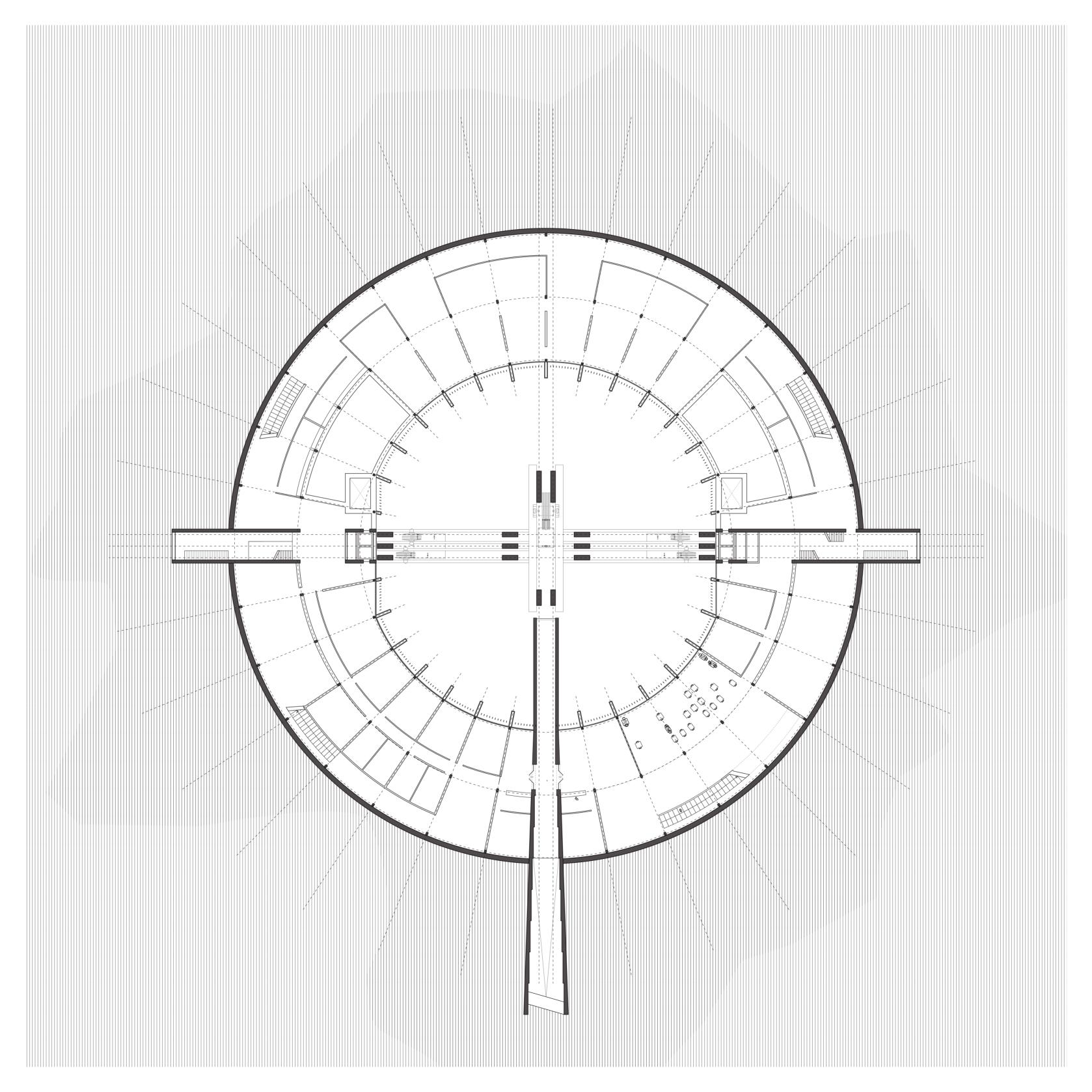


Control Rooms
Visual



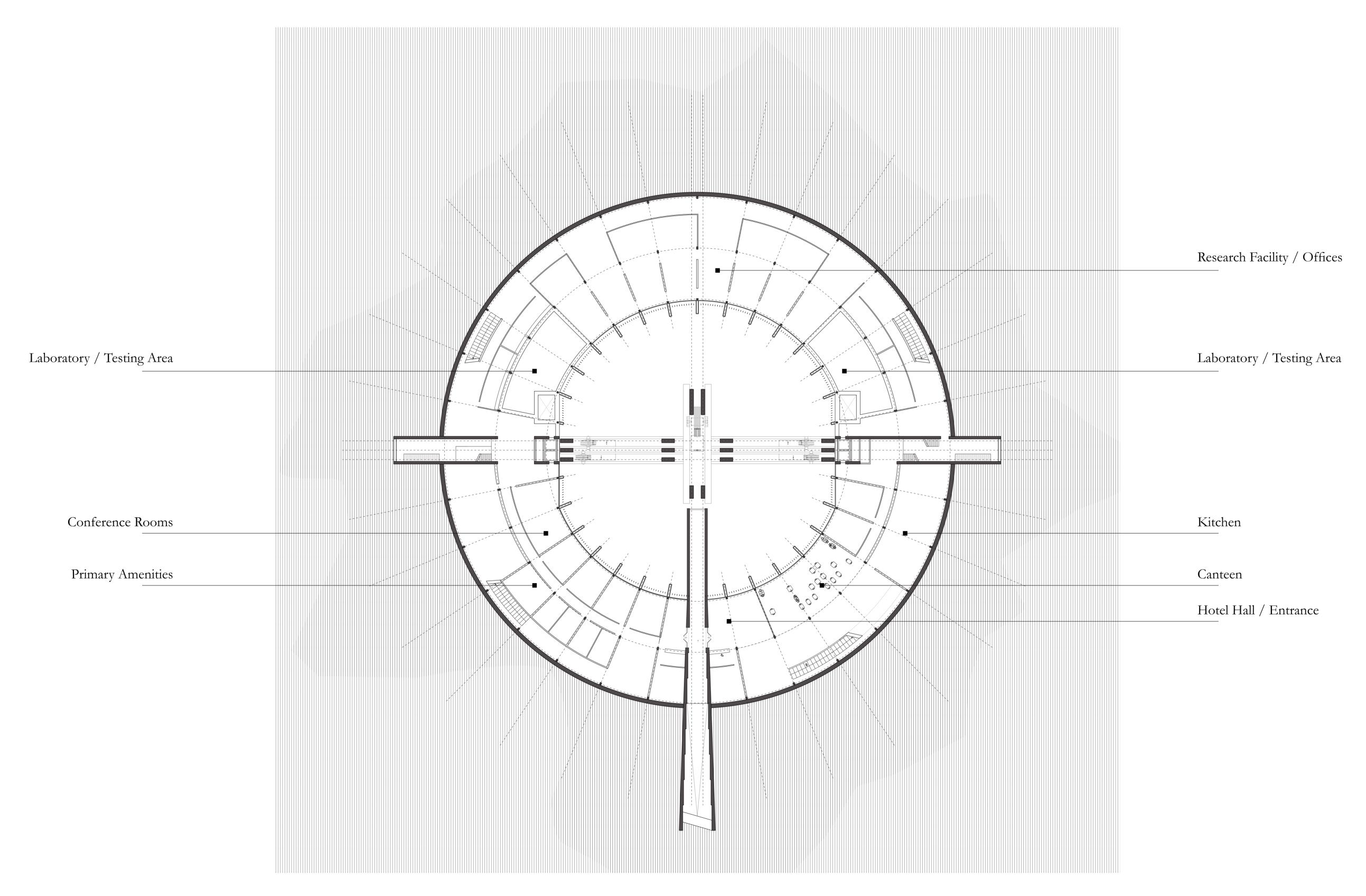
Nuclear Waste Storage Visual



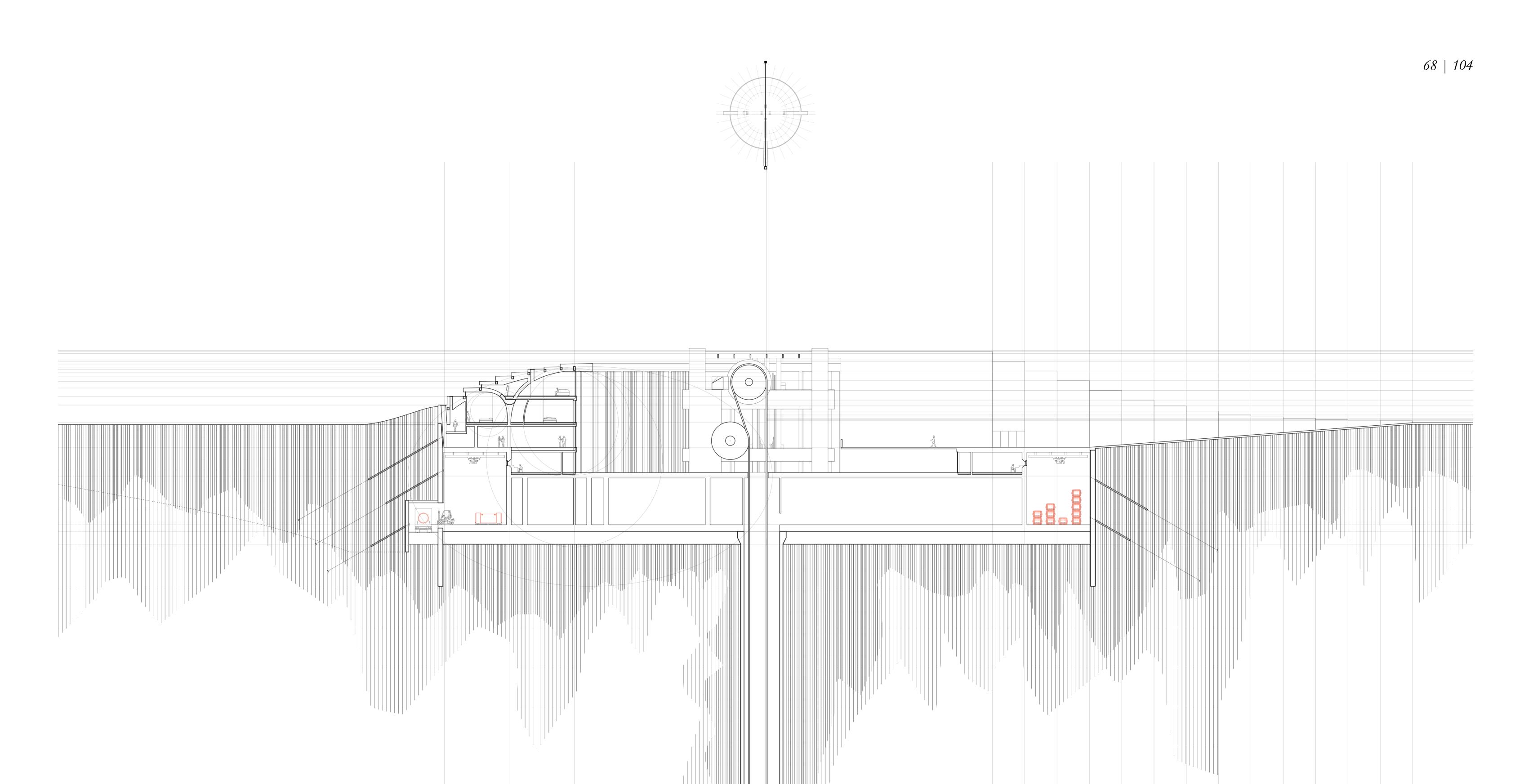


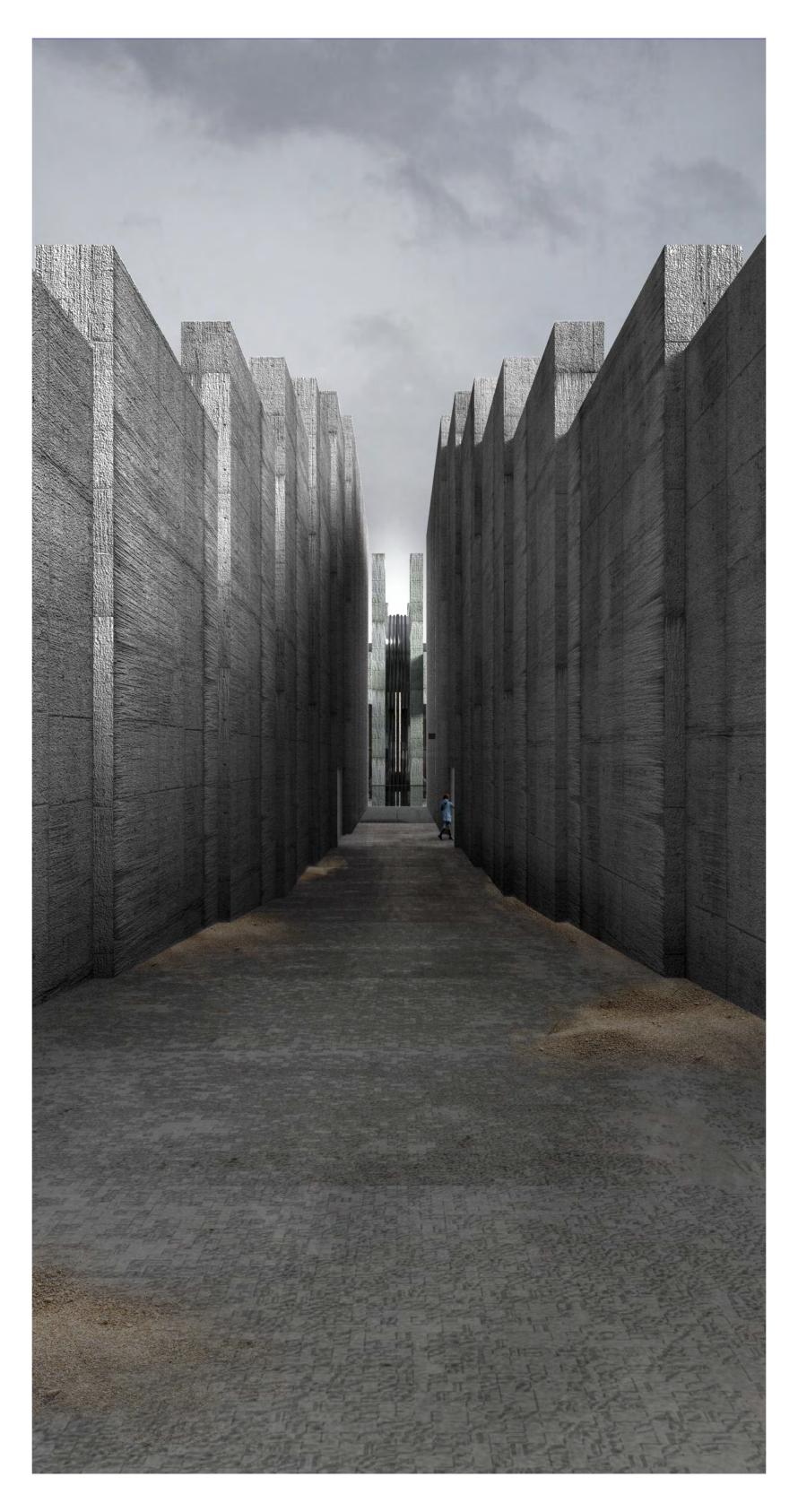
Research Facility + Visitor Center Floor
-04.00 meters
1:200





Research Facility + Visitor Center Floor
-04.00 meters
1:200

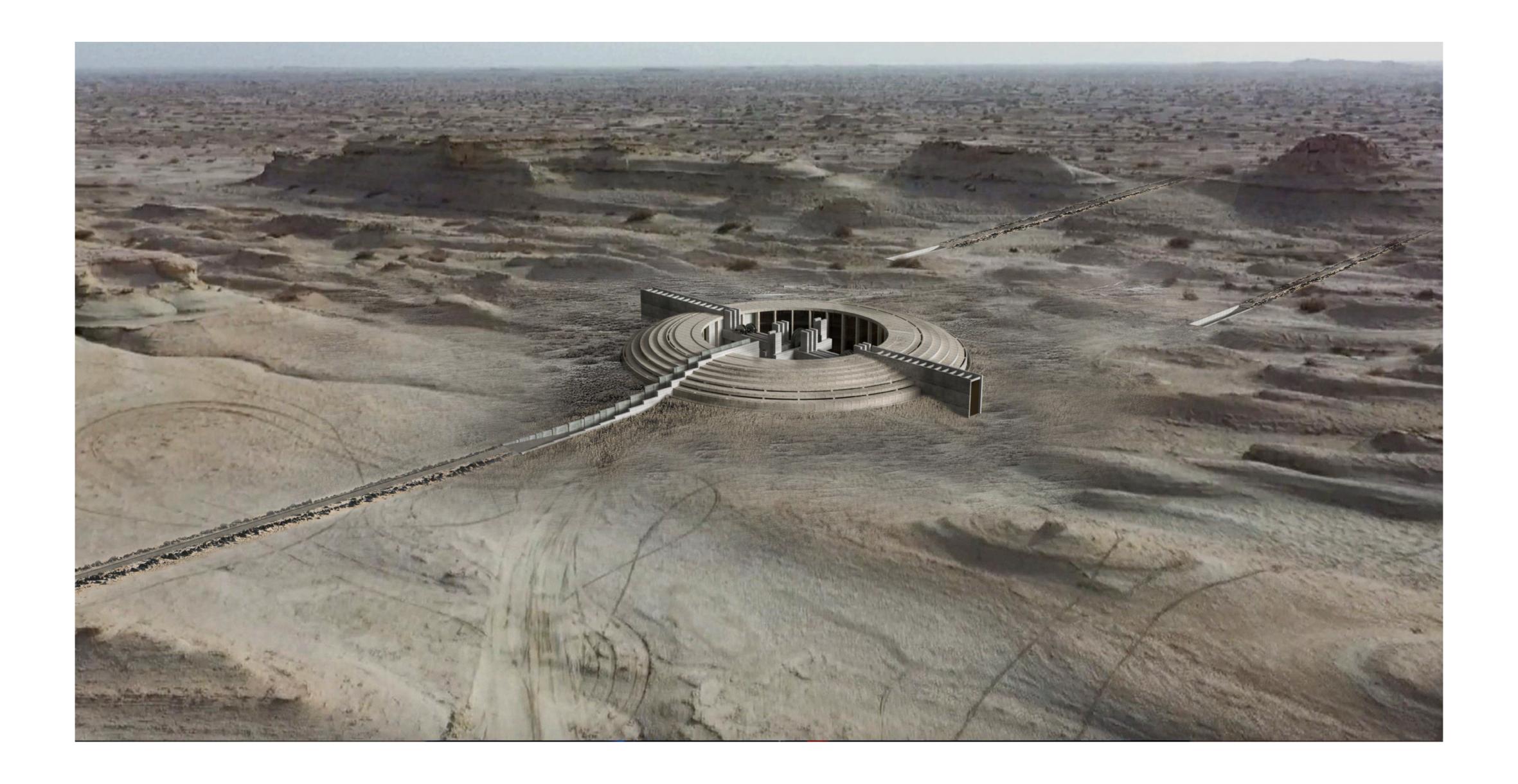




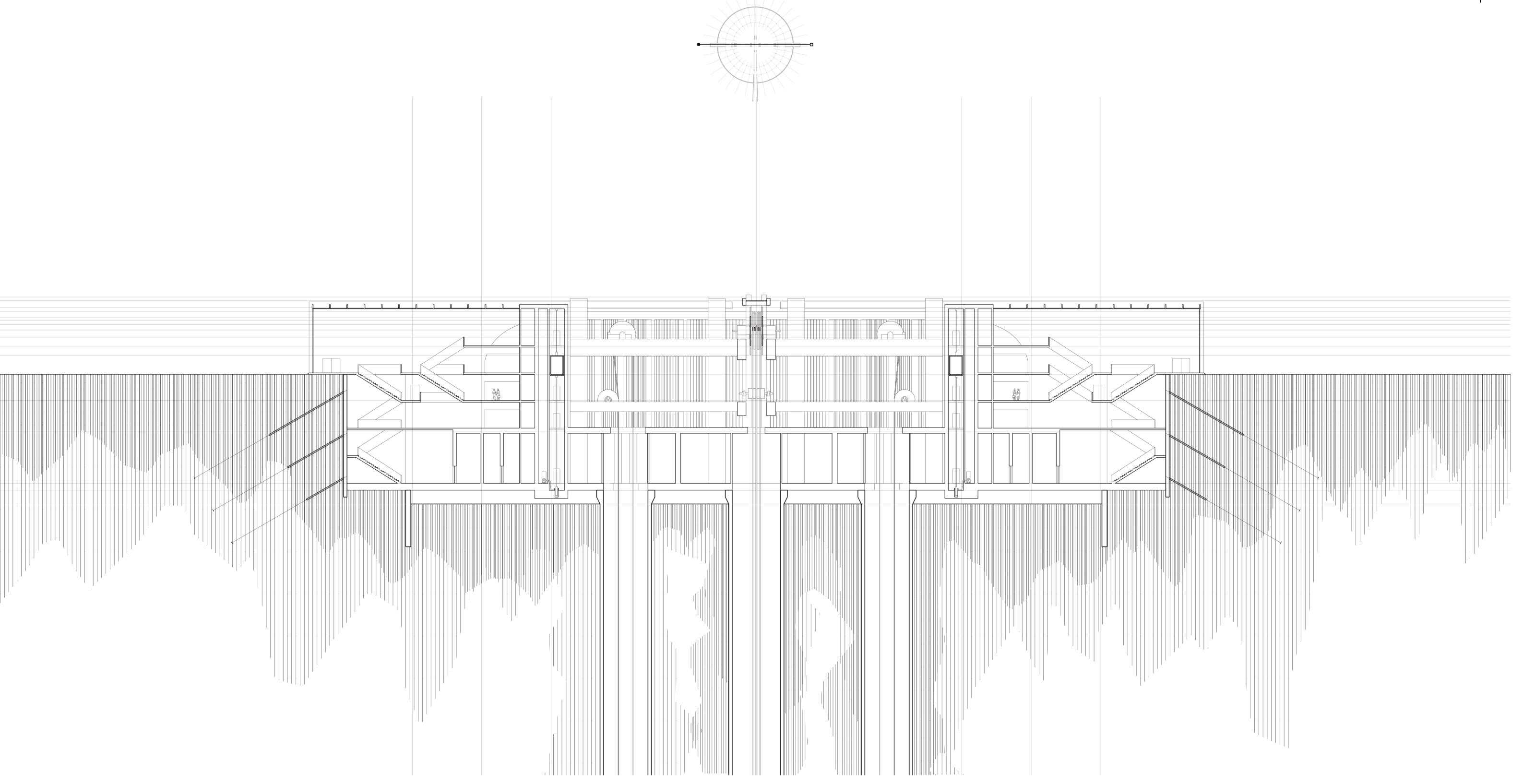
Entry Hallway Visual



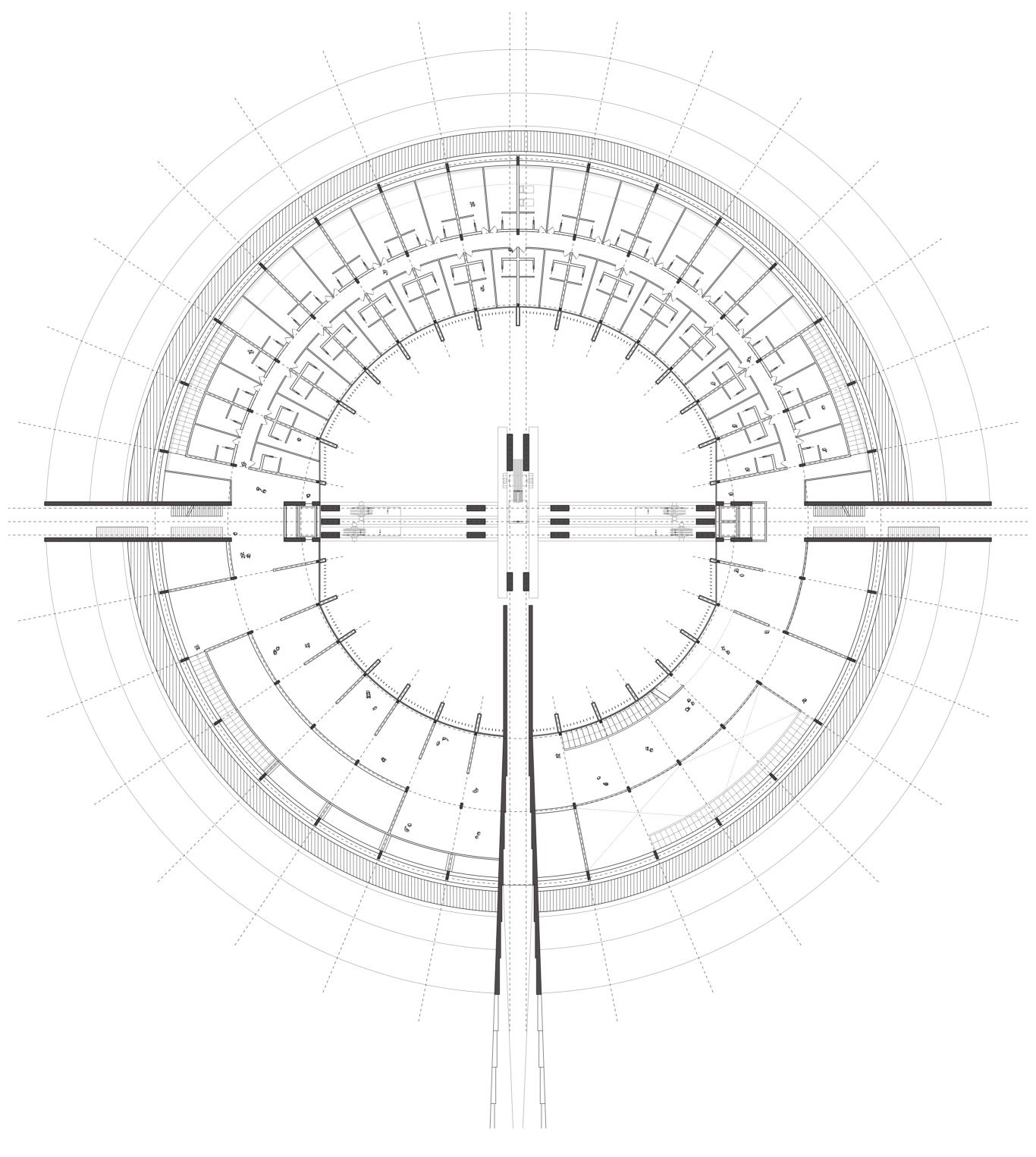
Courtyard Visual



Bunker Aerial View

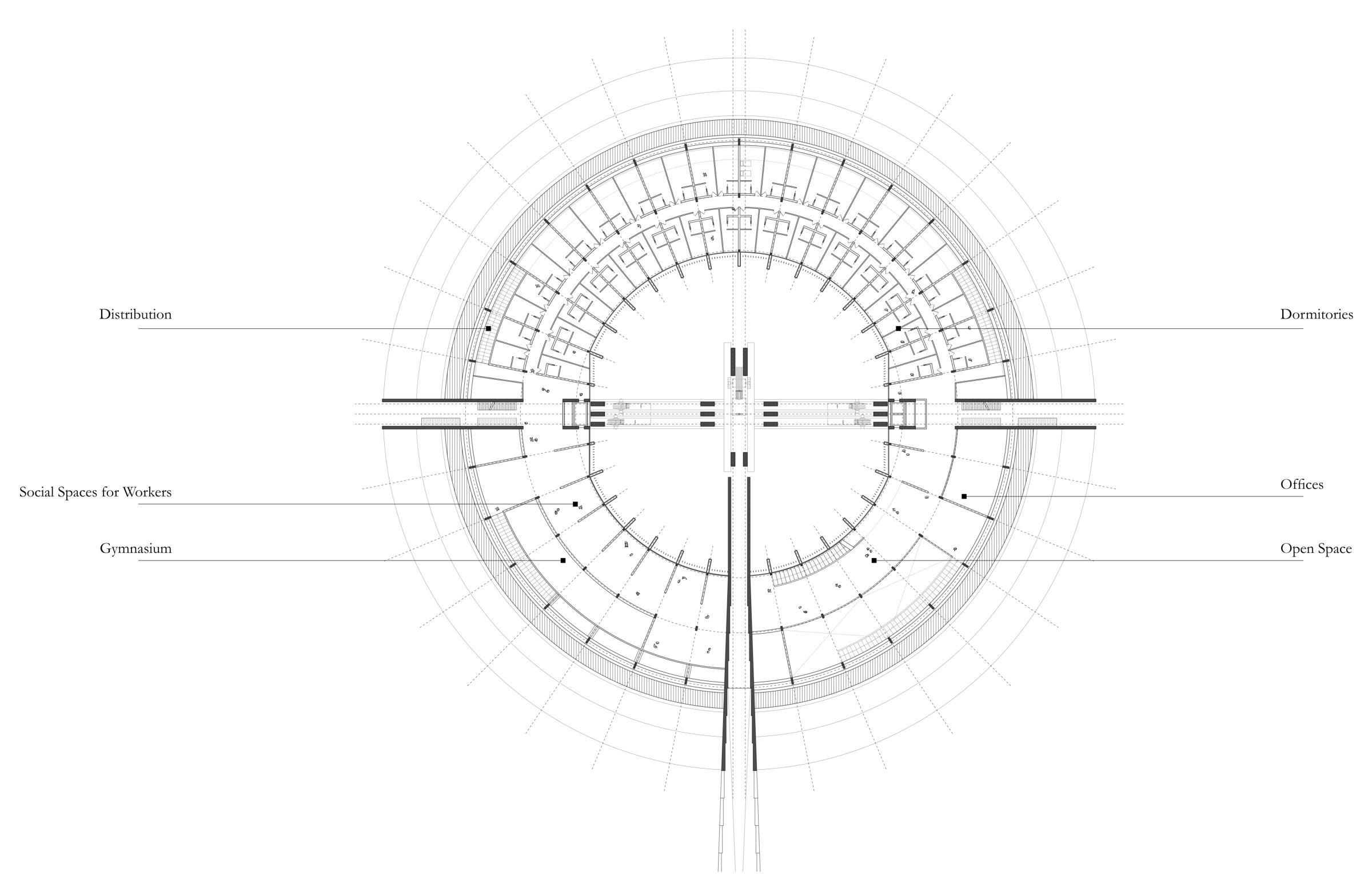




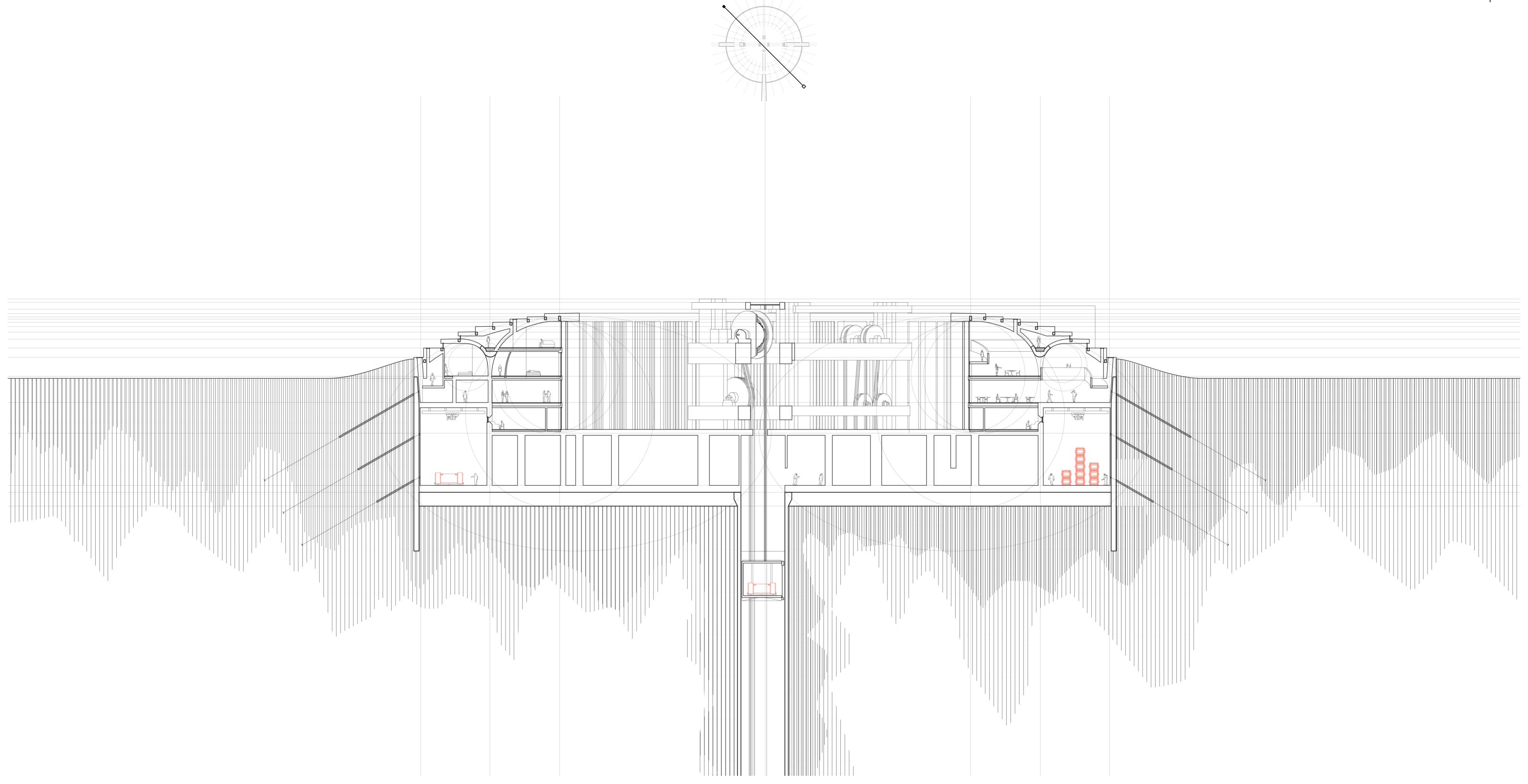


Dormitories / Visitor Center Floor +00.00 meters 1:200

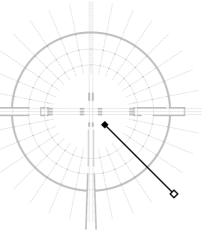


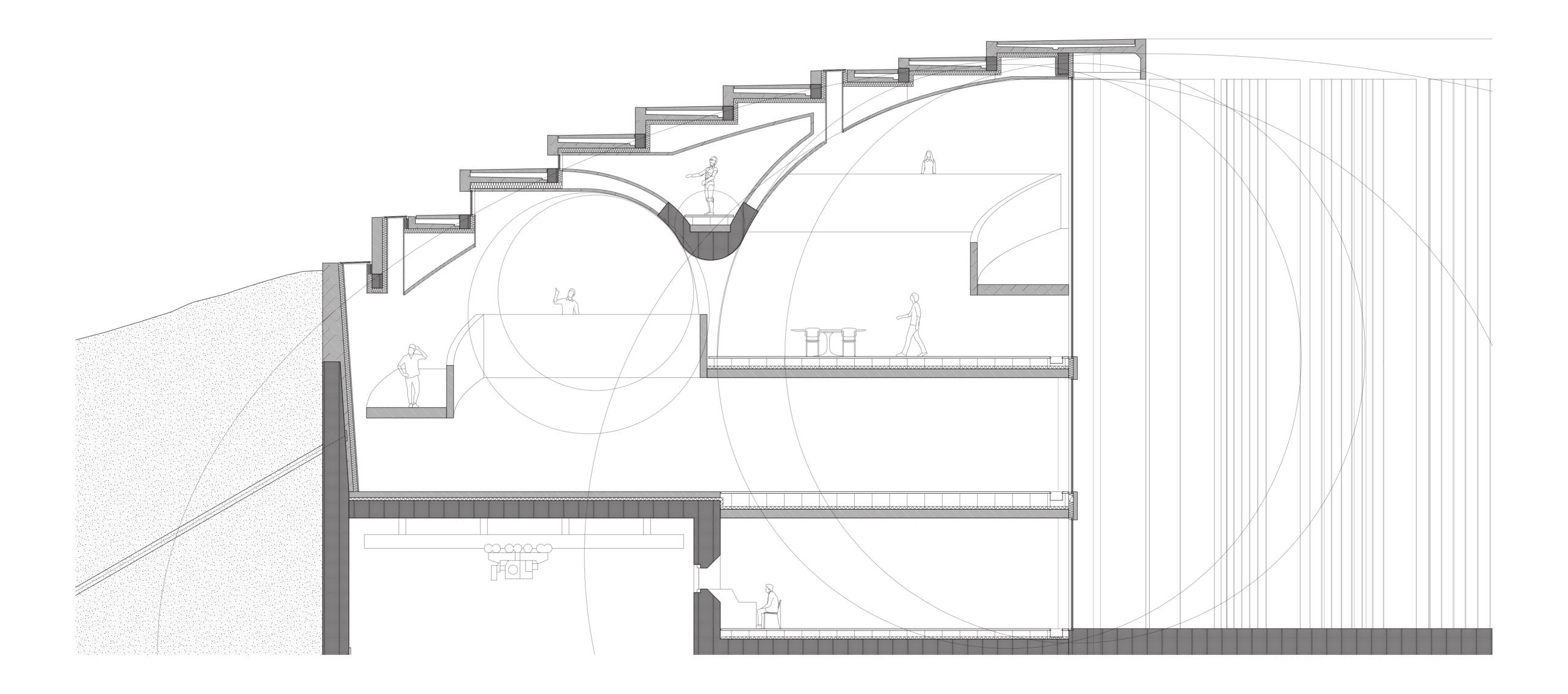


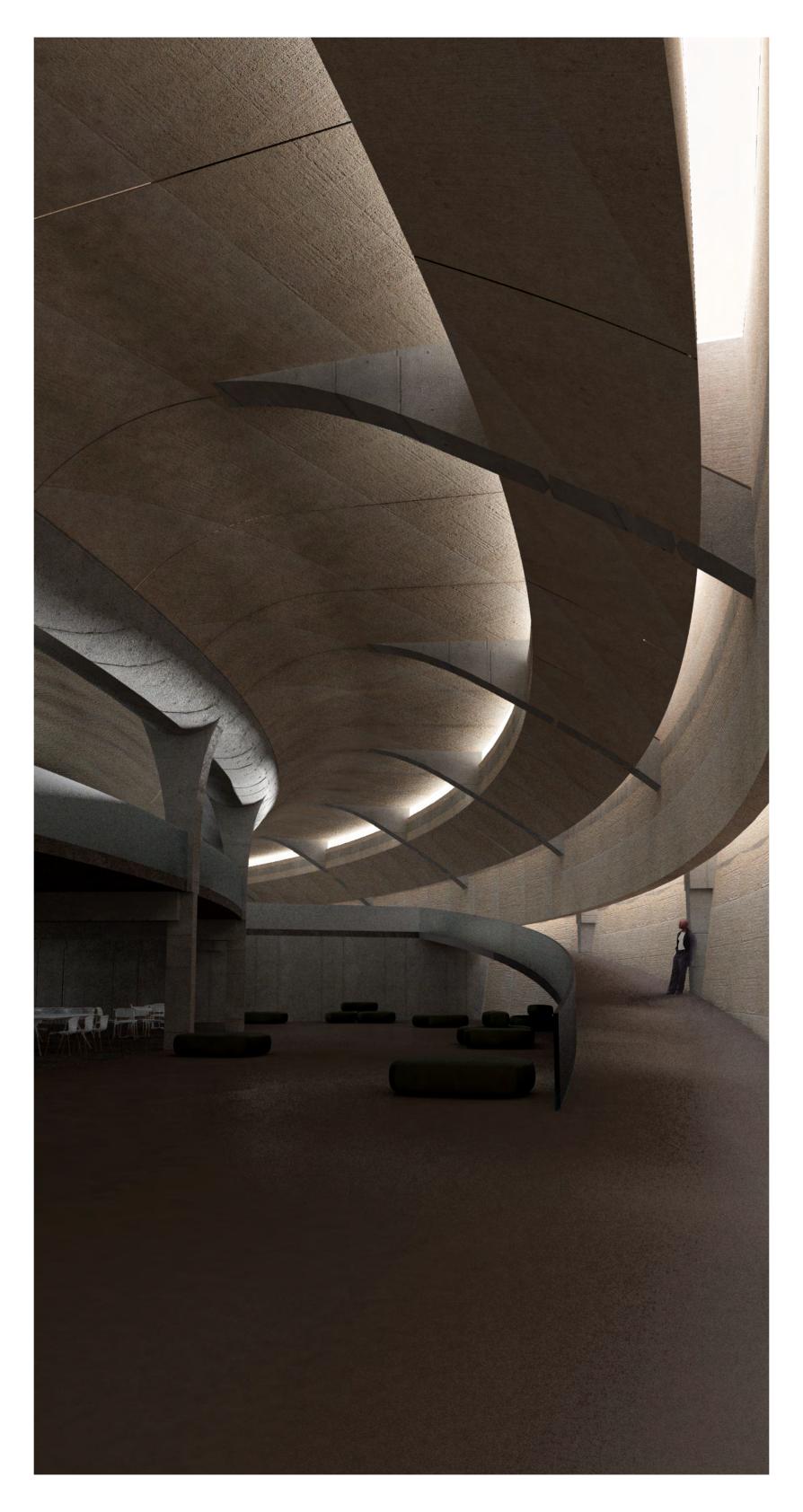
Dormitories / Visitor Center Floor +00.00 meters 1:200



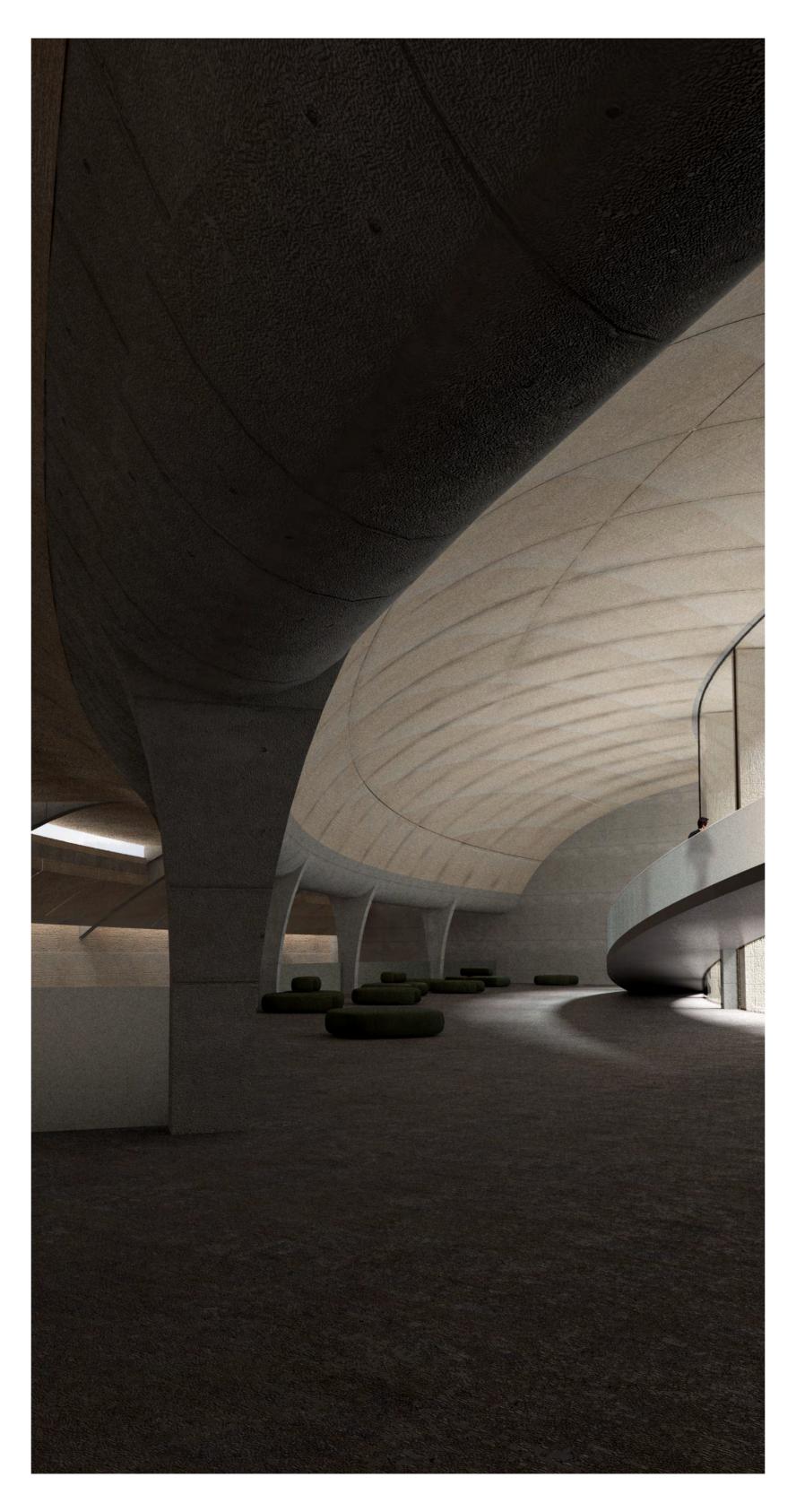
Section 1:200





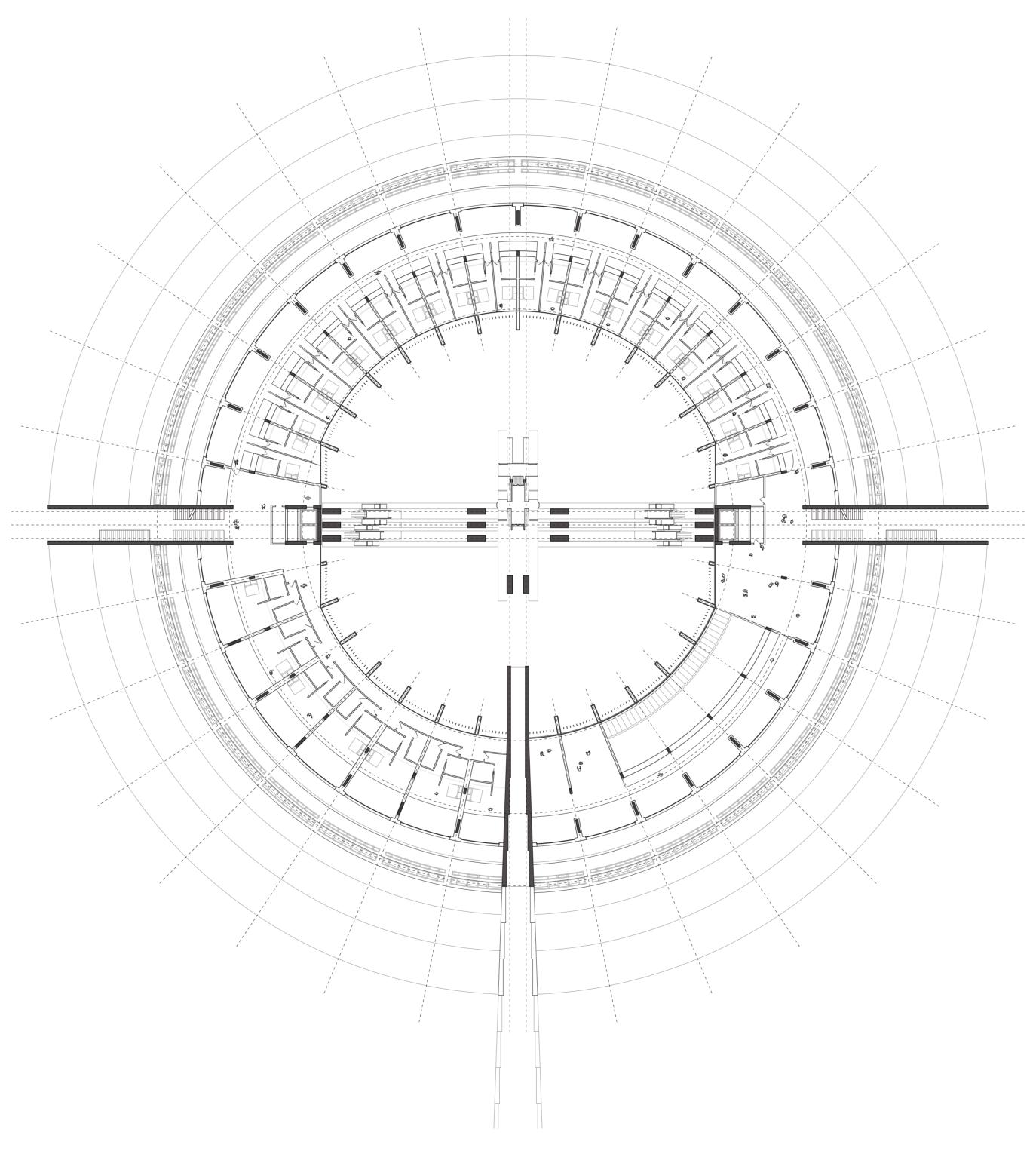


Visitor Center Hall
Visual



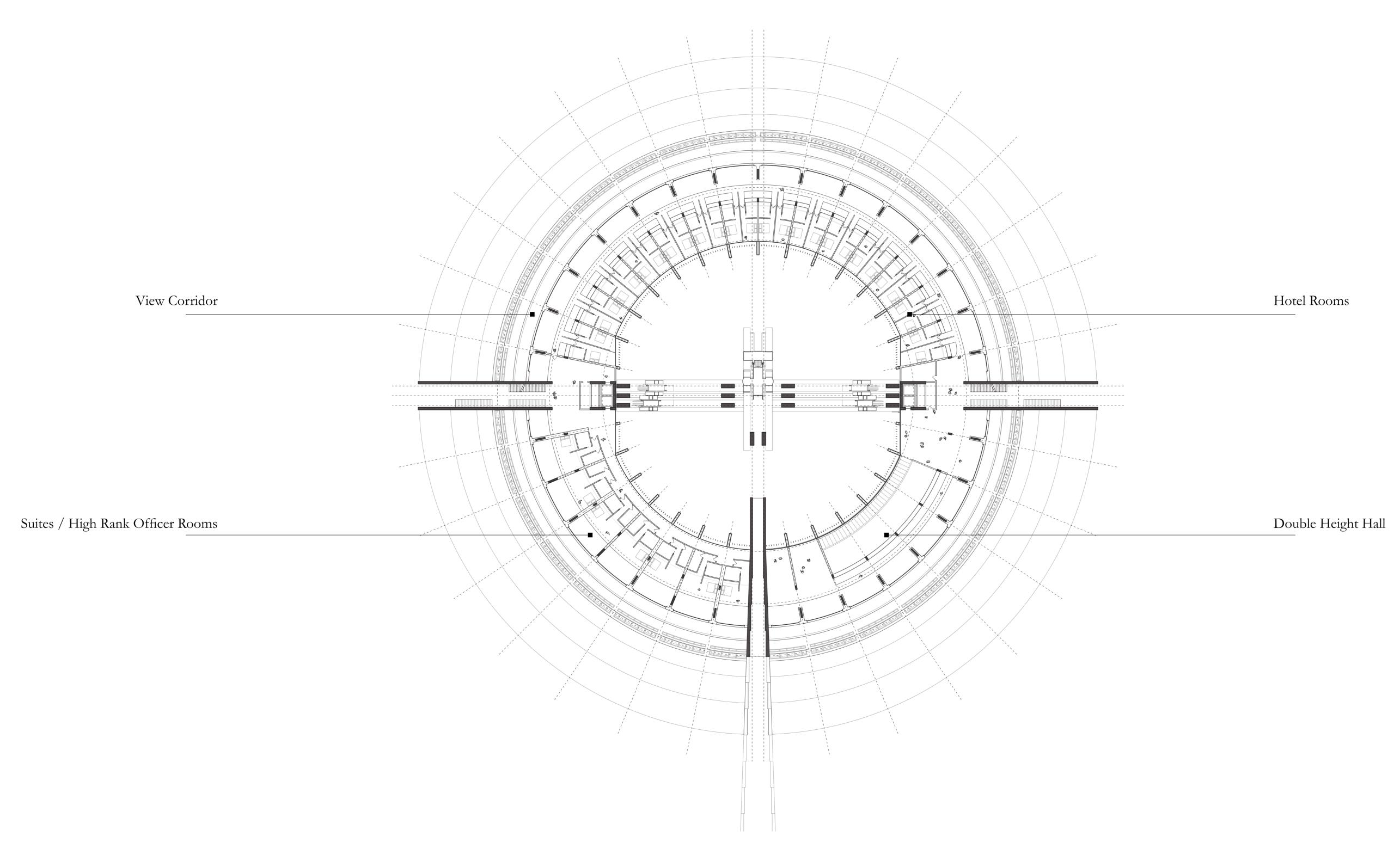
Visitor Center Hall
Visual





Visitor Rooms Floor +04.00 meters 1:200

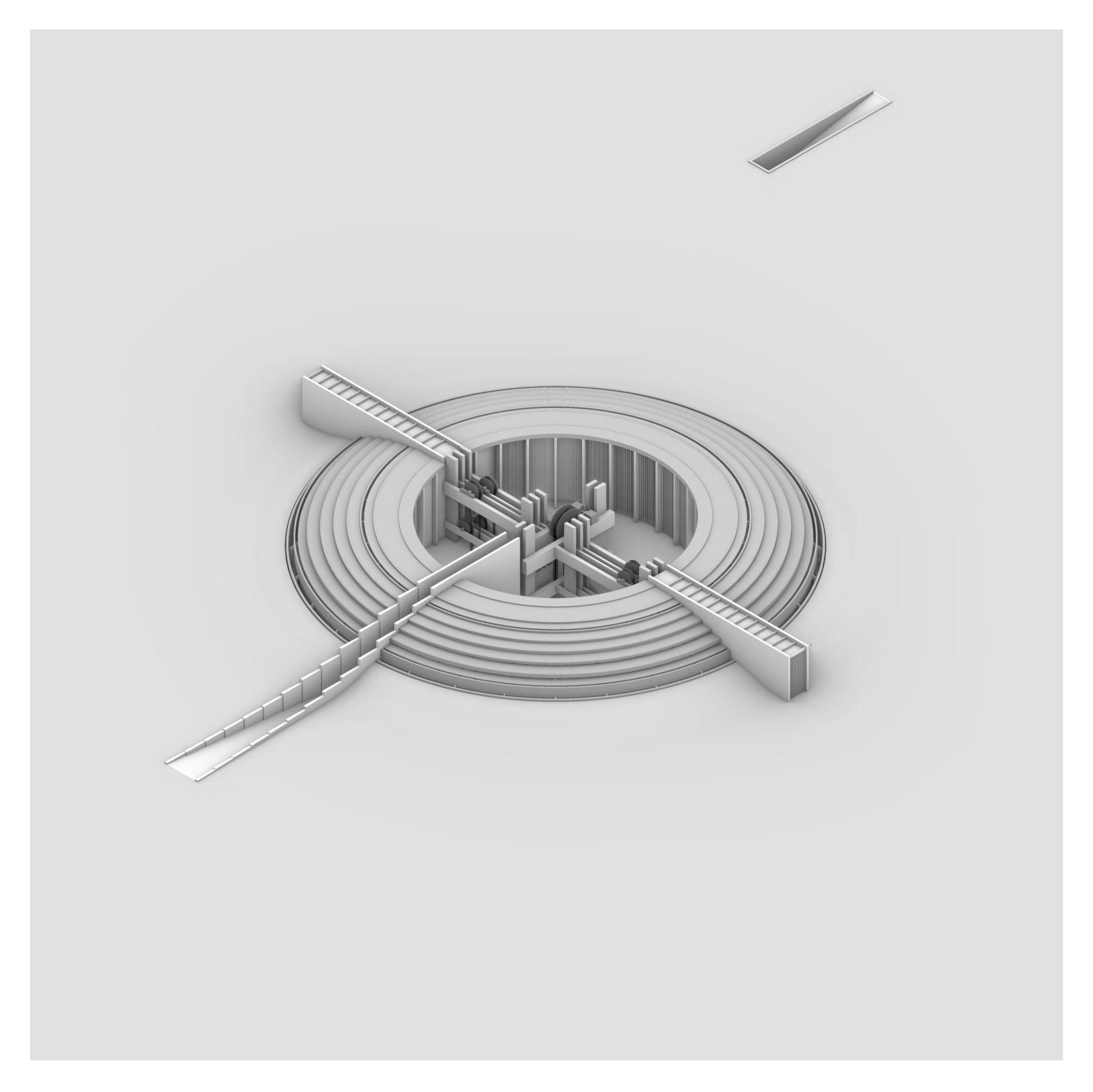




Visitor Rooms Floor +04.00 meters

1:200

5 10 25 m

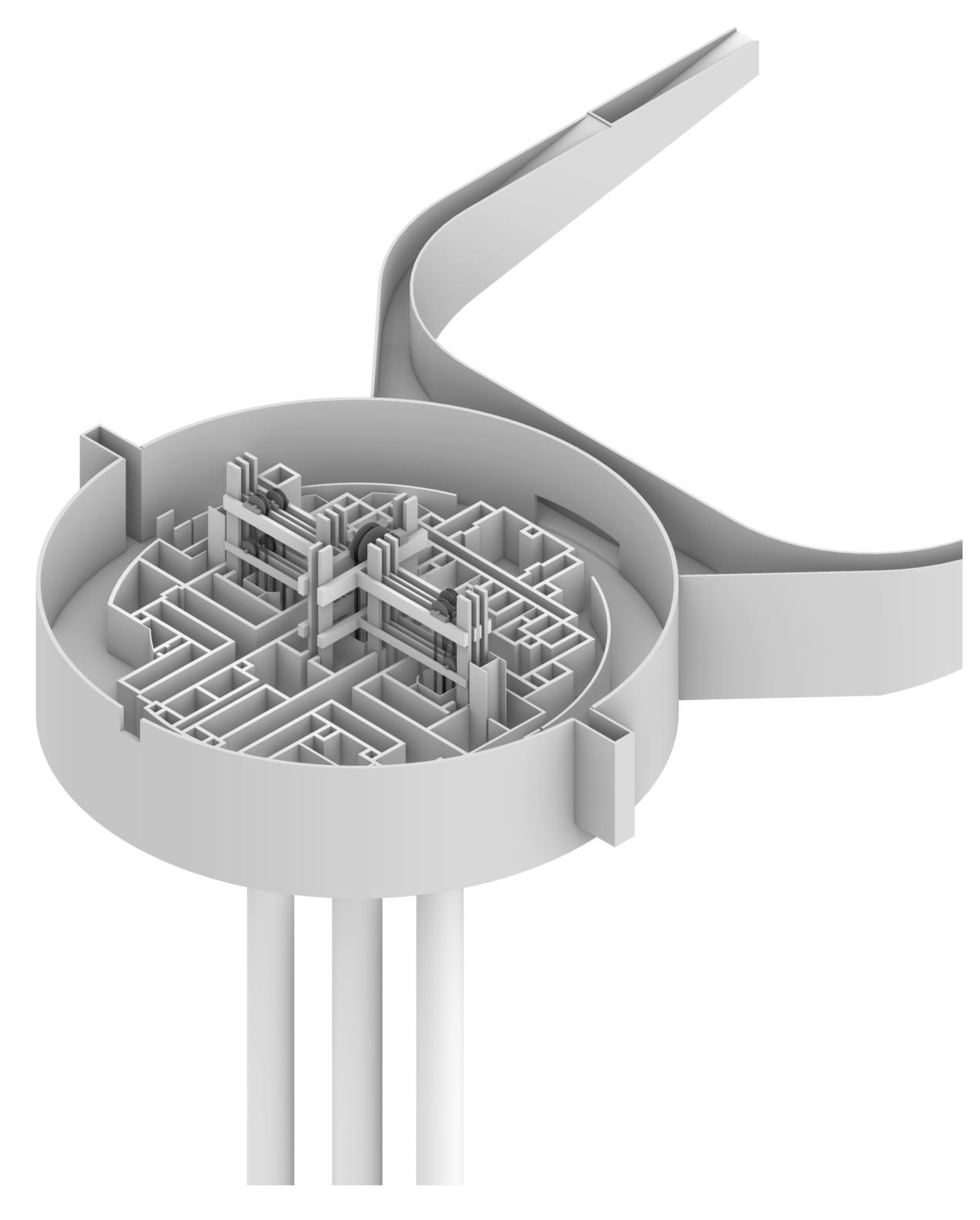


Central Facility
Axonometric

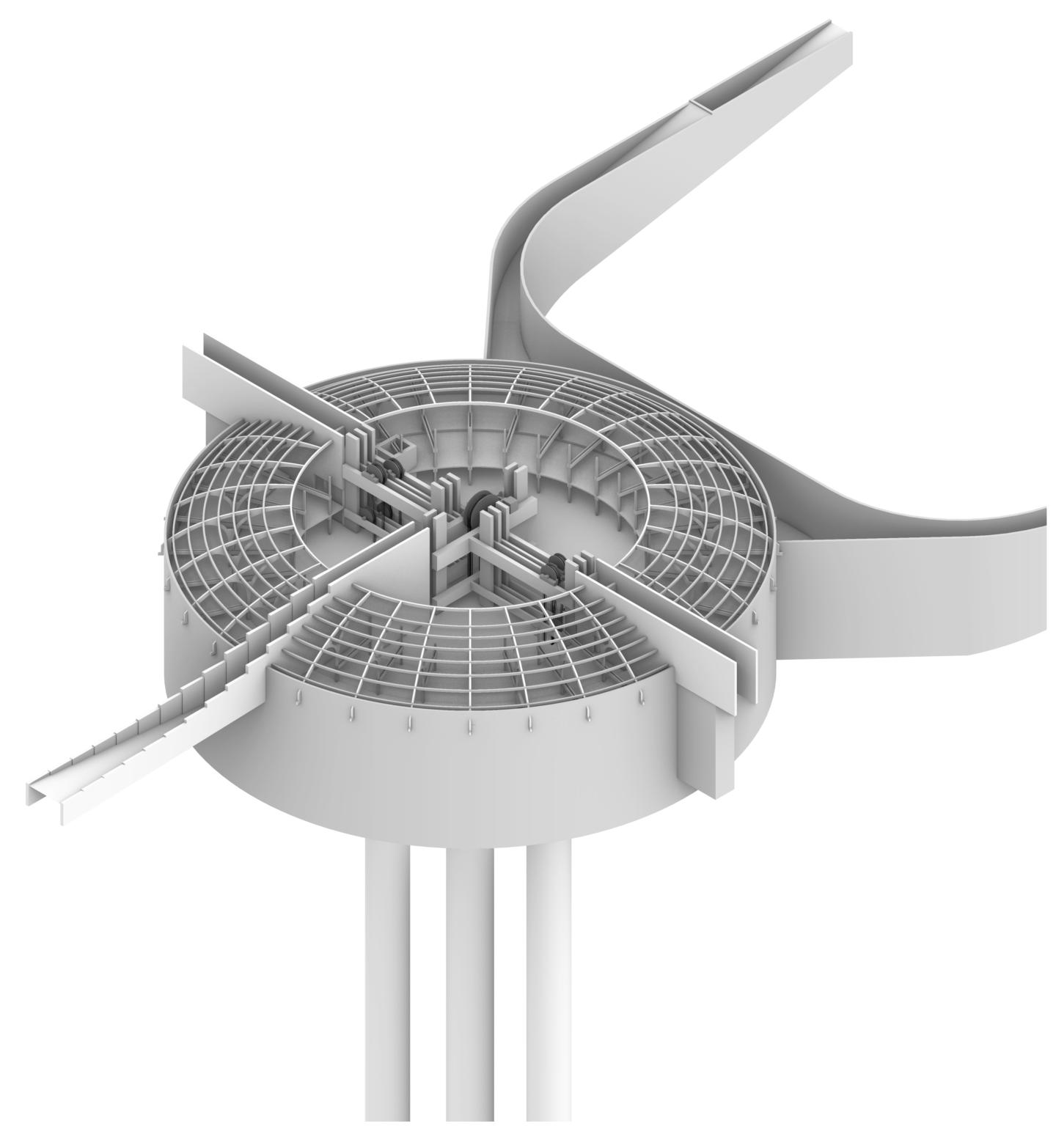


Mining Operations
Diagram

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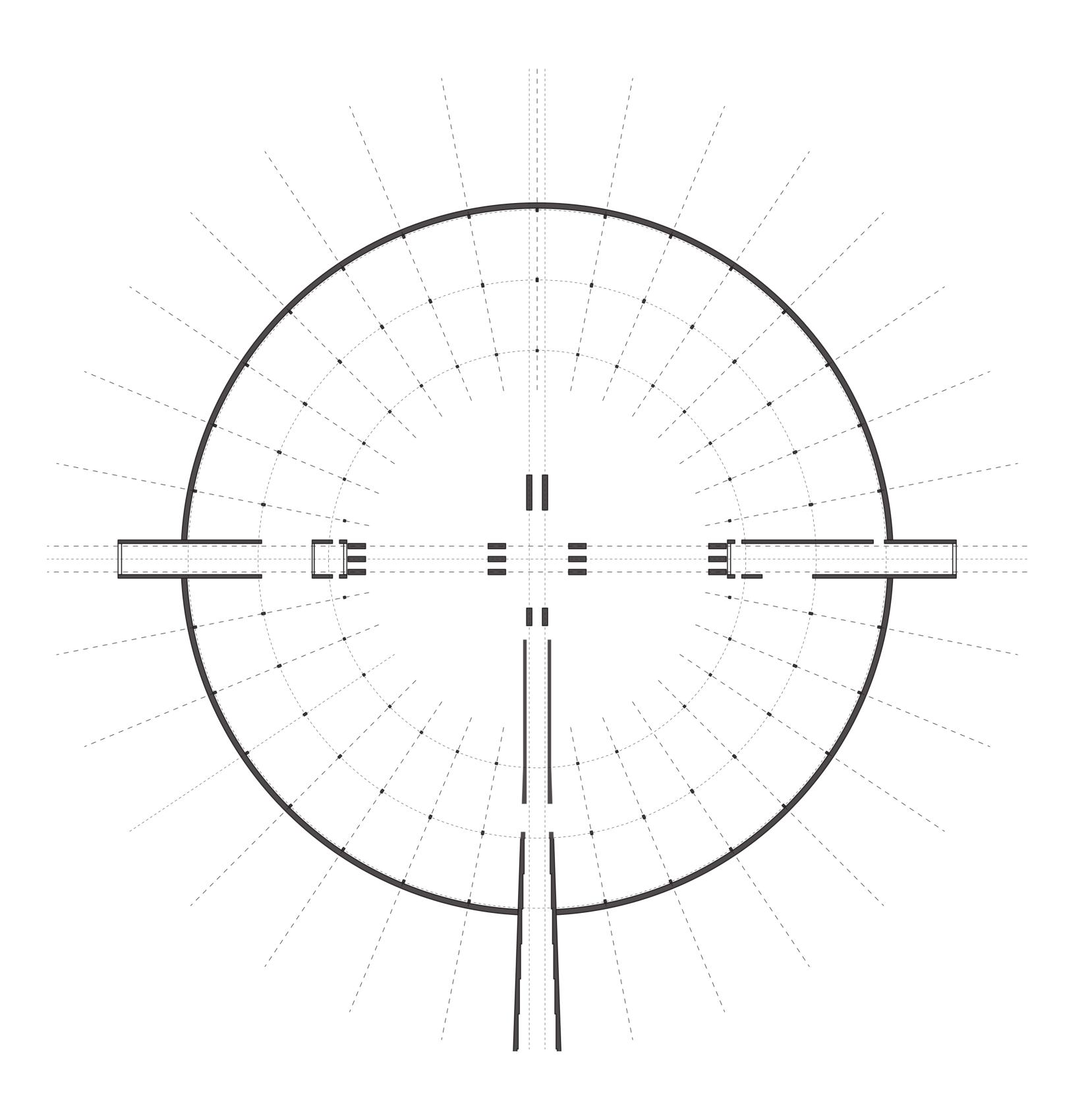


Repository Infrastructure
Diagram



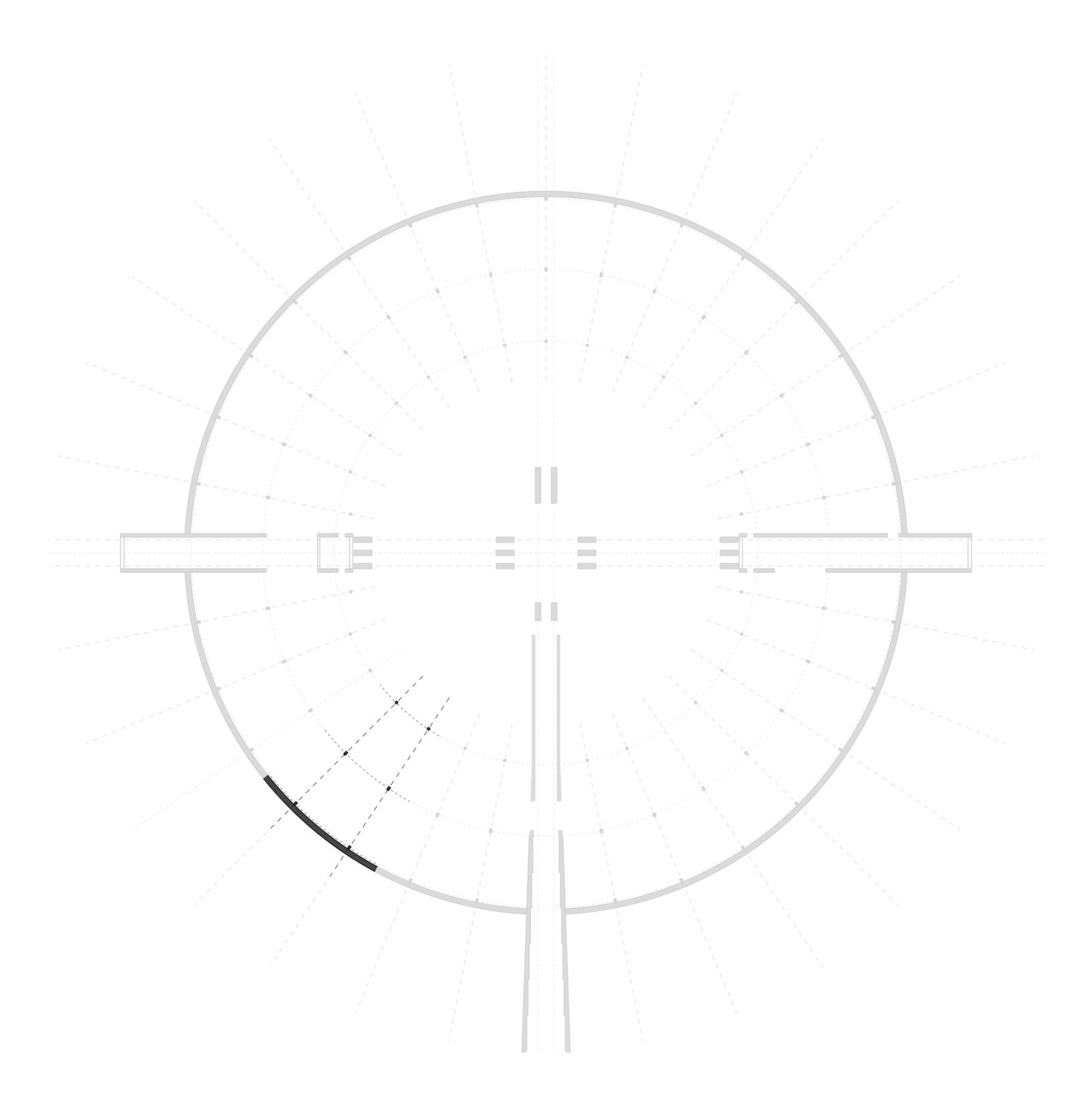
Research / Visitor Center
Diagram



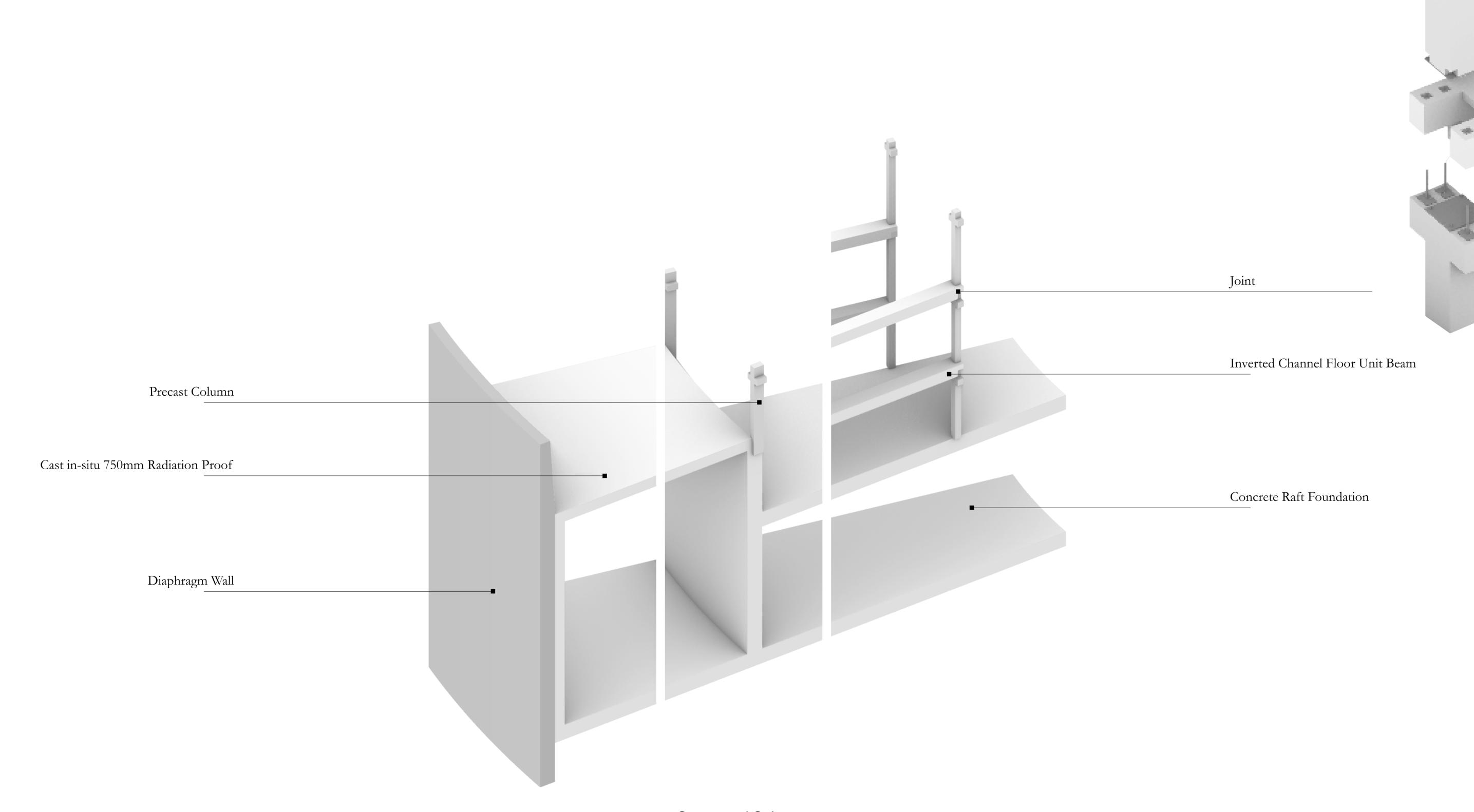


Structure Grid
Structure

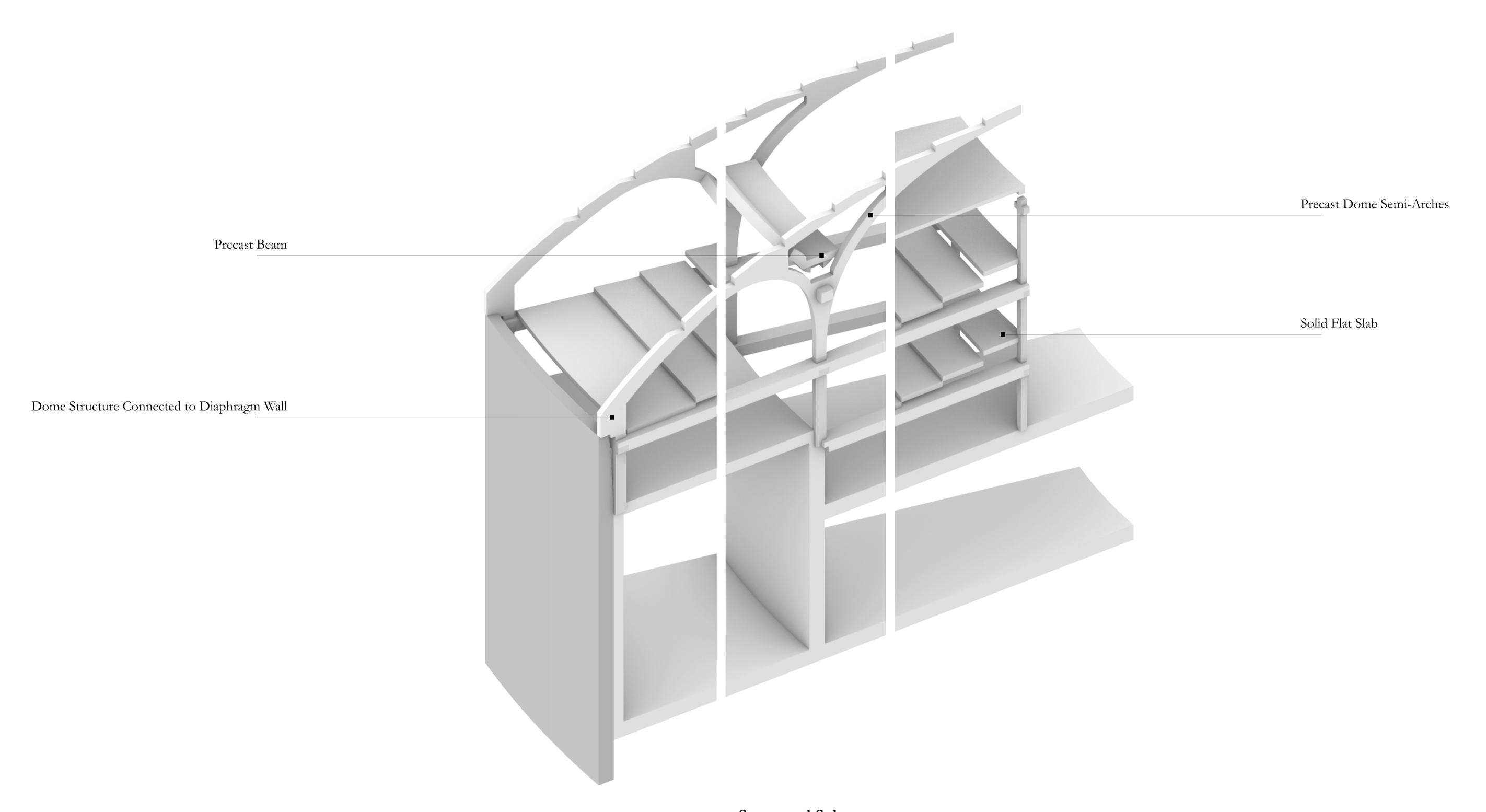




SlicesStructure

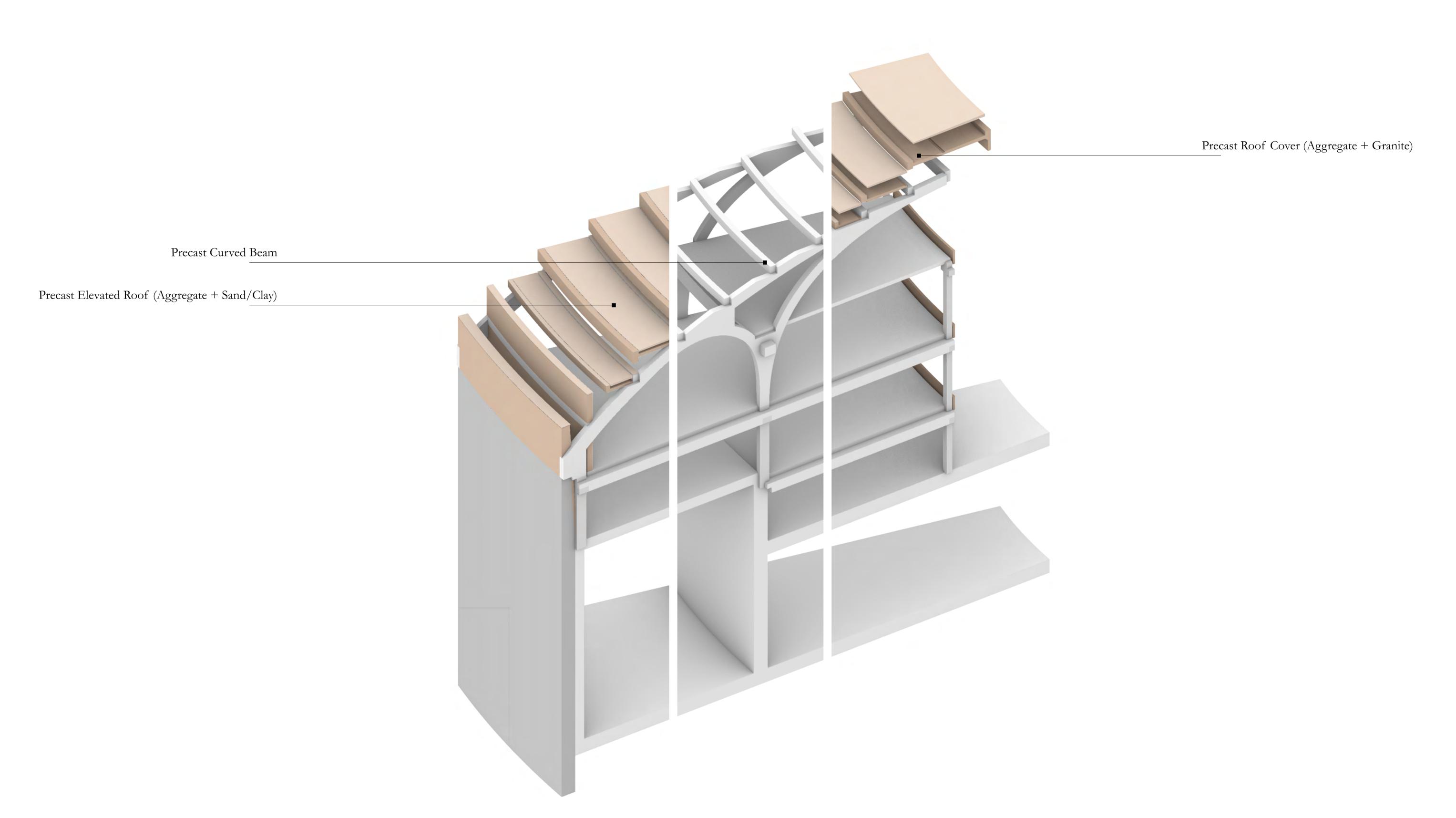


Structural Scheme Axonometry



Structural Scheme Axonometry

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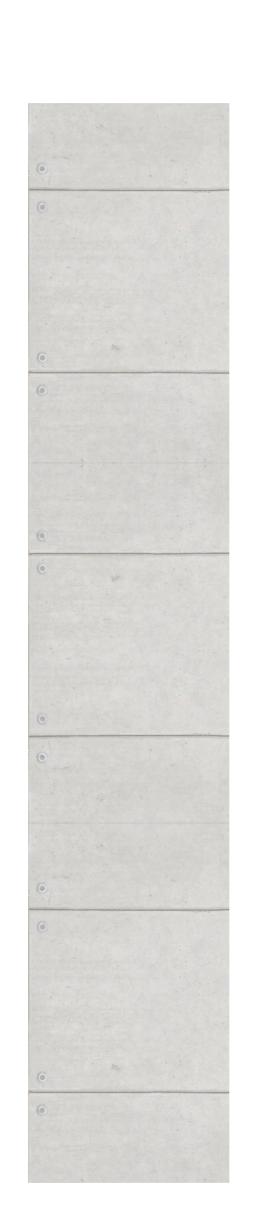
Structural Scheme Axonometry

__



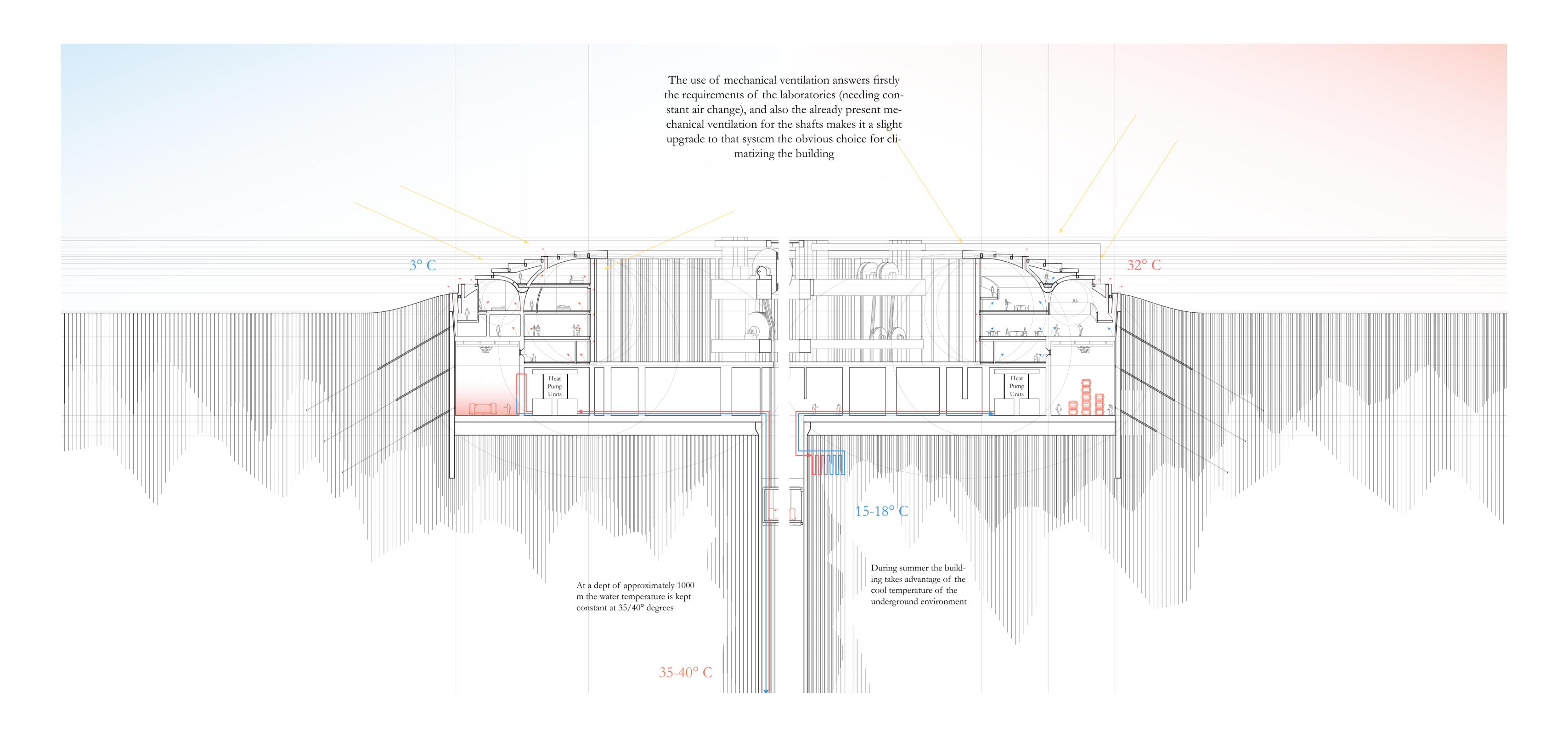






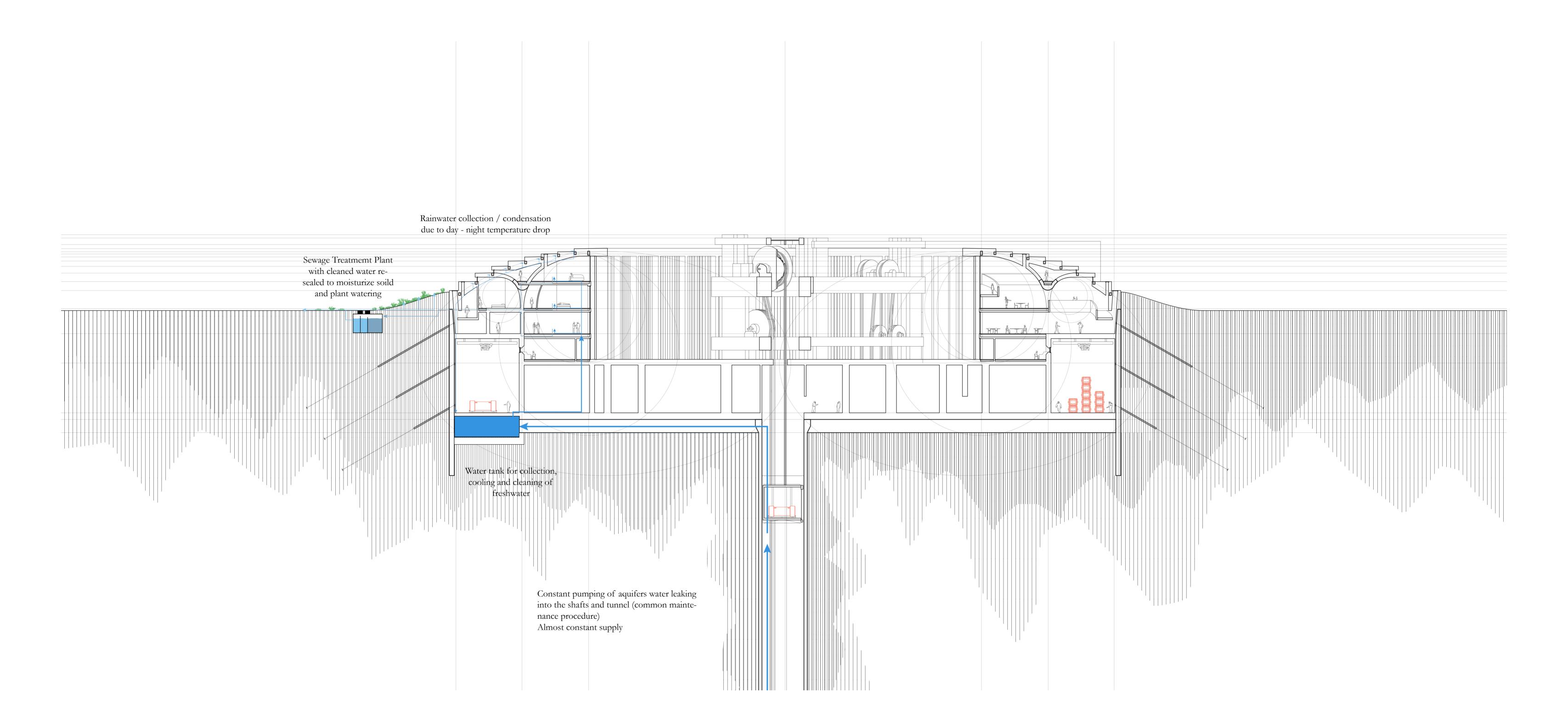




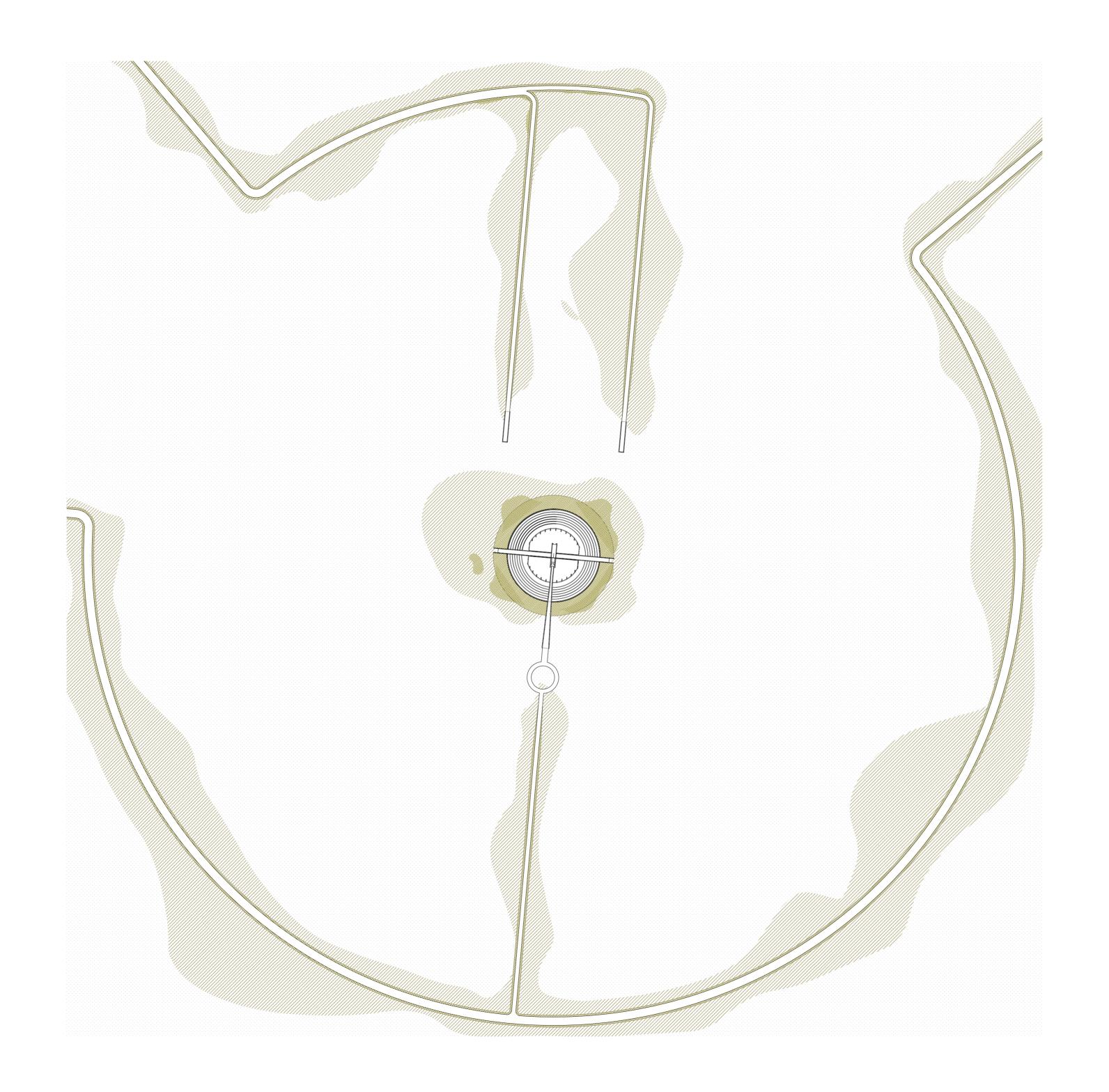


Climatic Strategy
Cold Winter Day
Hot Summer Day

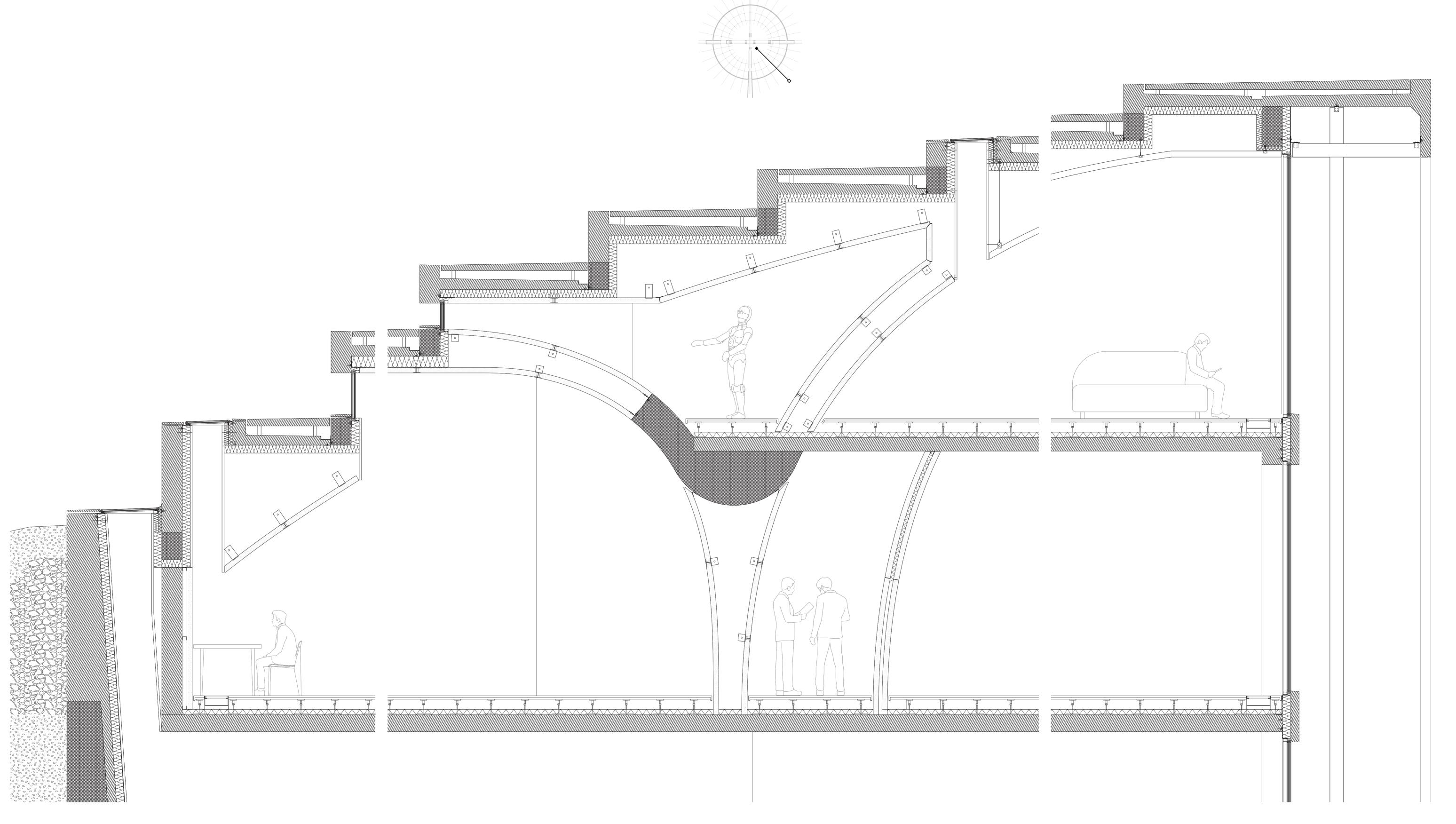
1:200



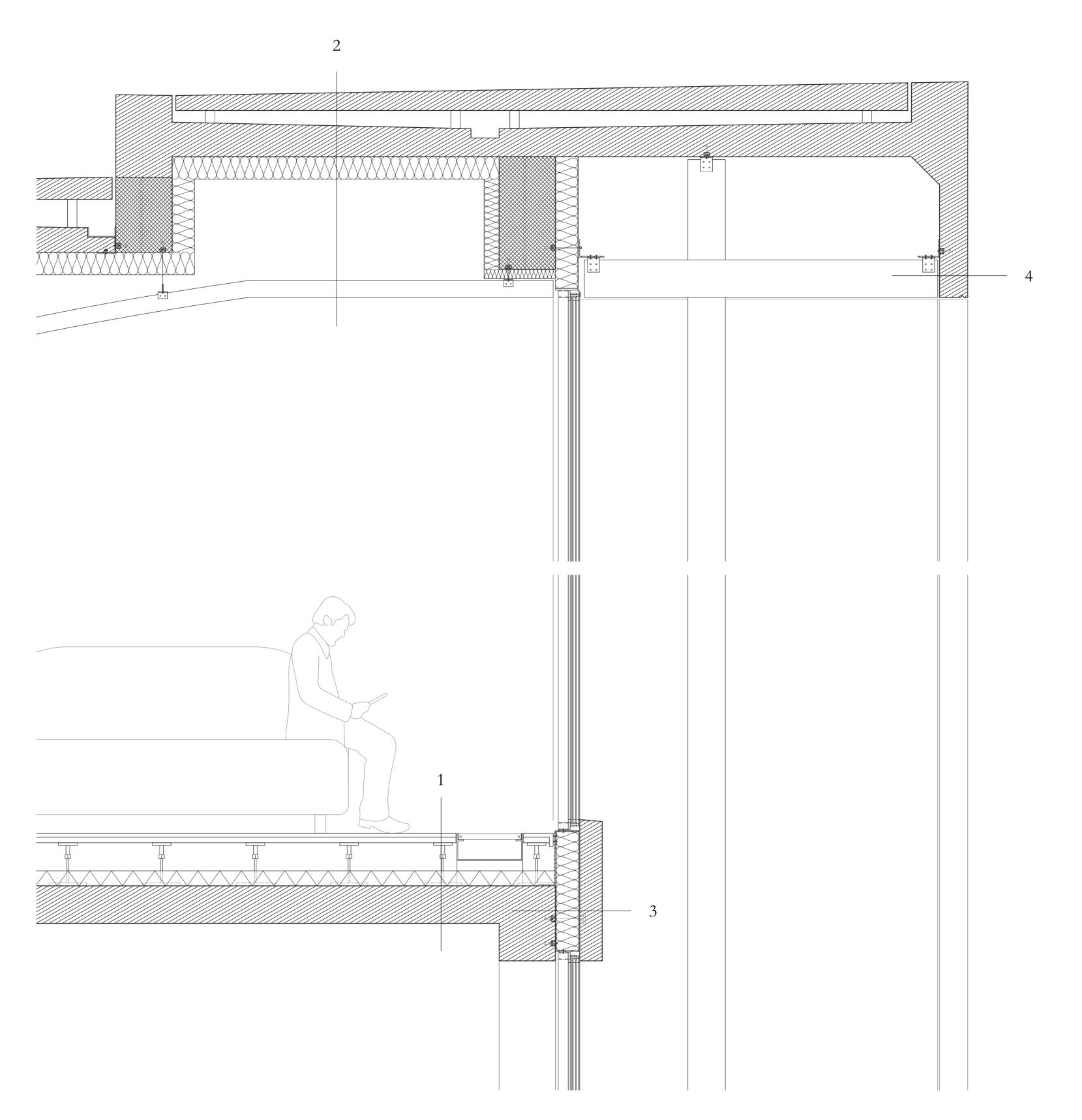
1:200



Climatic Strategy Reforestation



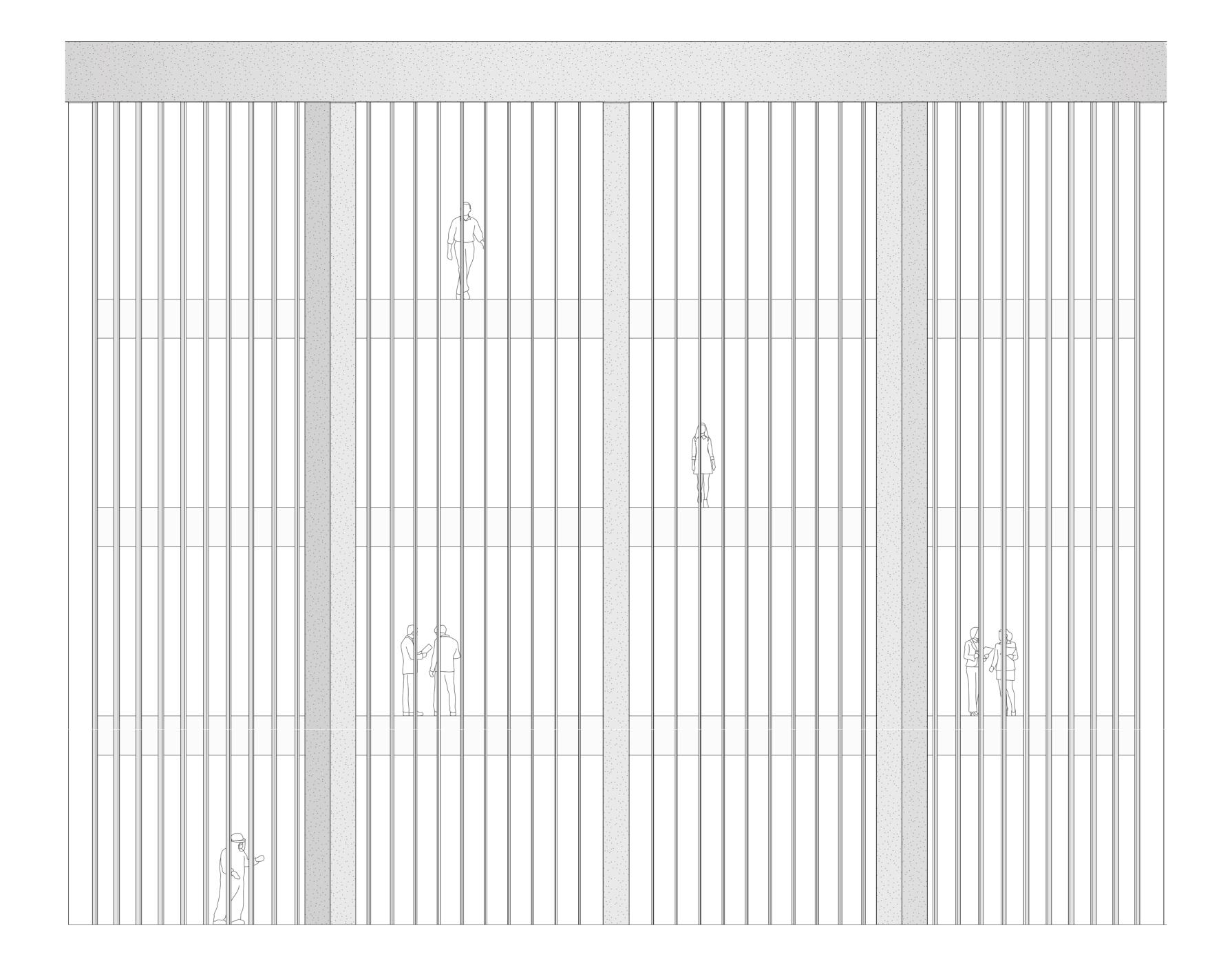
Build-up Section 1:20

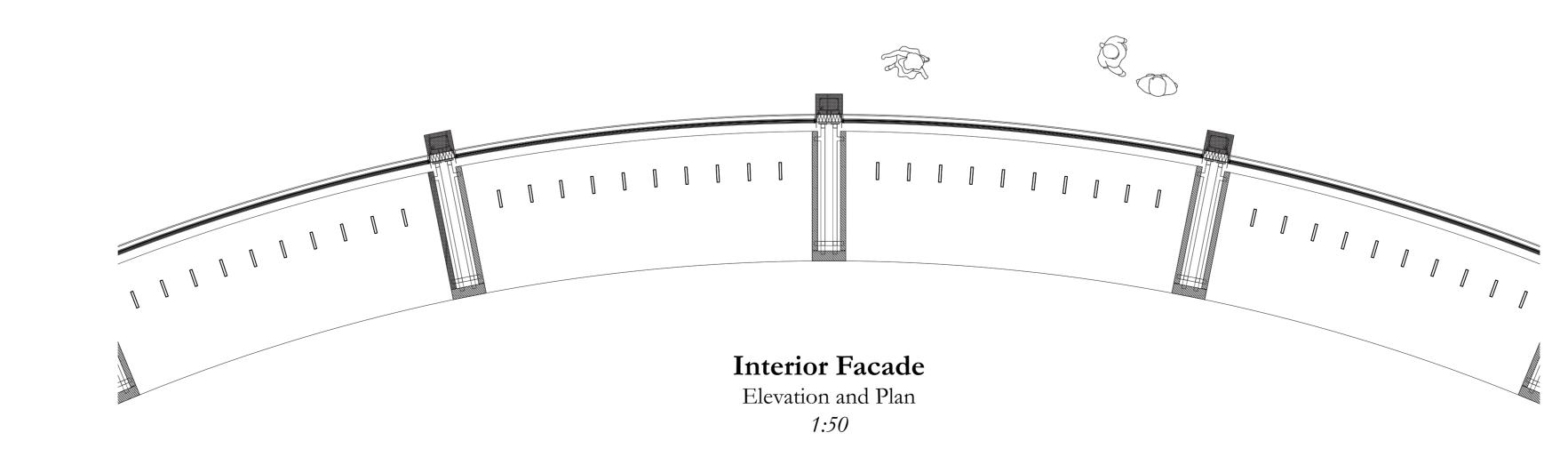


- (1) 20 mm granite tile flooring
 30 mm double floor
 Raisers
 100 mm rigid foam insulation
 Separation layer
 250 mm solid flat slab
- (2) 100 mm elevated precast reinforced concrete element
 Bituminous sheeting seal
 Precast reinforced concrete step module
 Vapour barrier
 150 mm stone wool thermal insulation
 30 x 90 mm stainless steel curved lamellas
- (3) 80 mm precast concrete cladding element to slab
 12.5 mm waterproof plasterboard panel
 150 mm stone wool thermal insulation
 Vapour barrier
 130 x 130 mm slotted steel angle bolted to halfen channel
- (4) 150 mm precast reiforced concrete roof element 130 x 130 mm slotted steel angle bolted to halfen channel 30 x 200 mm stainless steel lamellas

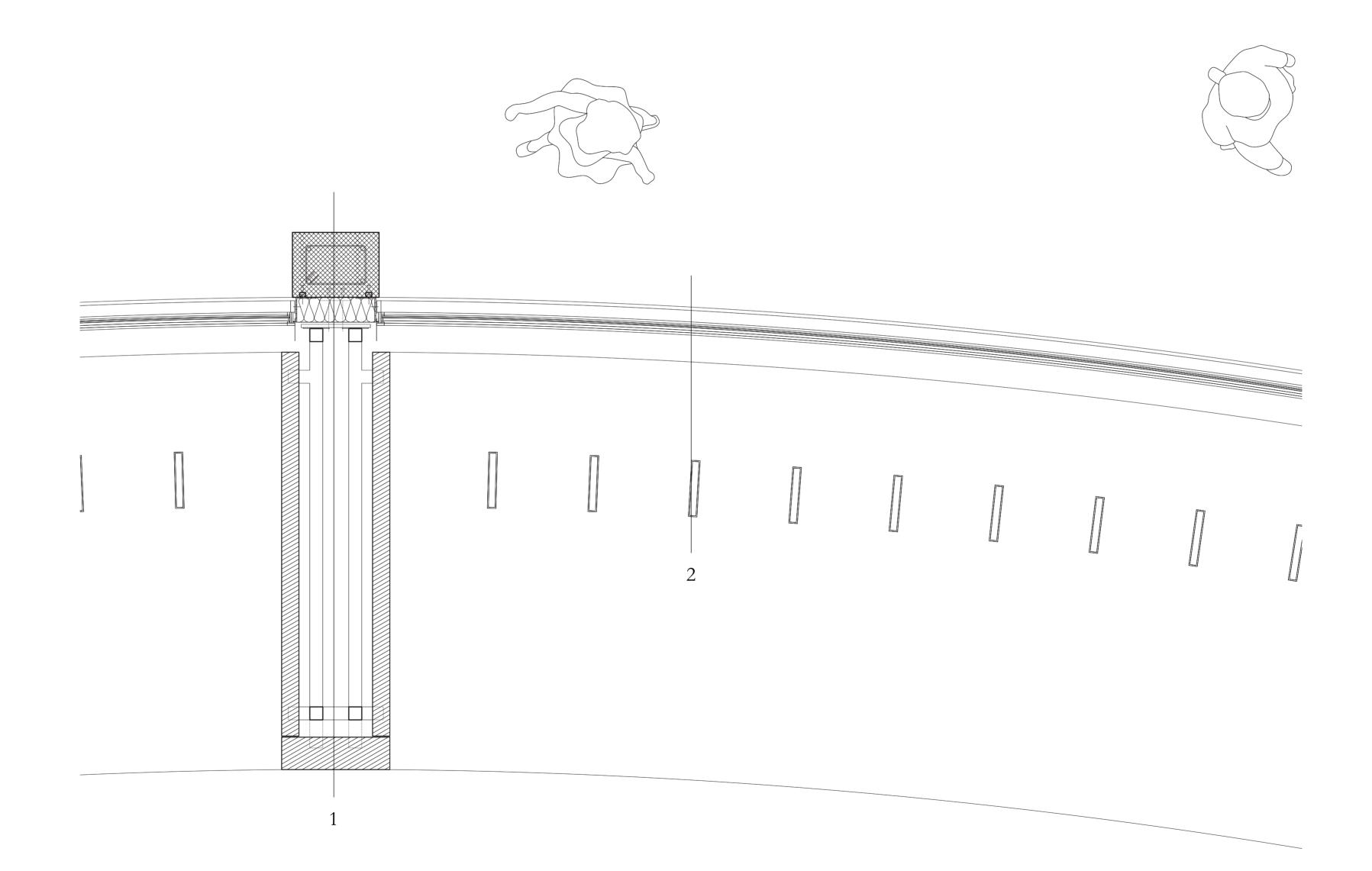
Interior Facade
Vertical Section
1:10

2 m





2 5 10 m



- (1) 80 mm precast concrete cladding element to column steel substructure
 - 12.5 mm waterproof plasterboard panel
 - 150 mm stone wool thermal insulation

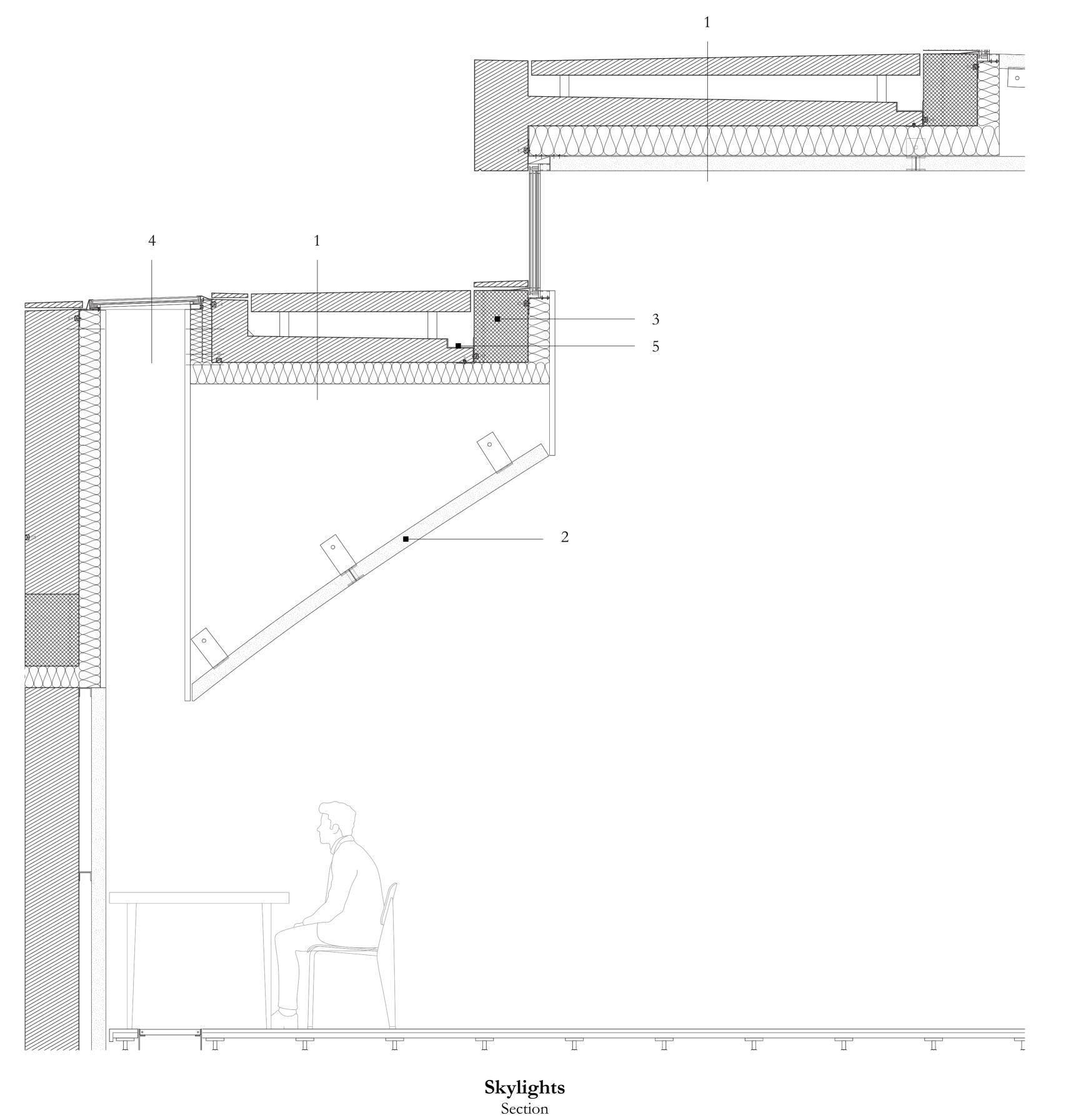
Vapour barrier

- 130 x 130 mm slotted steel angle bolted to halfen channel
- 300 x 350 mm precast reiforced concrete column
- (2) 30 x 200 mm stainless steel lamellas
 Sun protection glazing in south
 10 mm toughened glass coated
 20 mm cavity
 2 x 4 mm laminated glass
 Aluminium frame



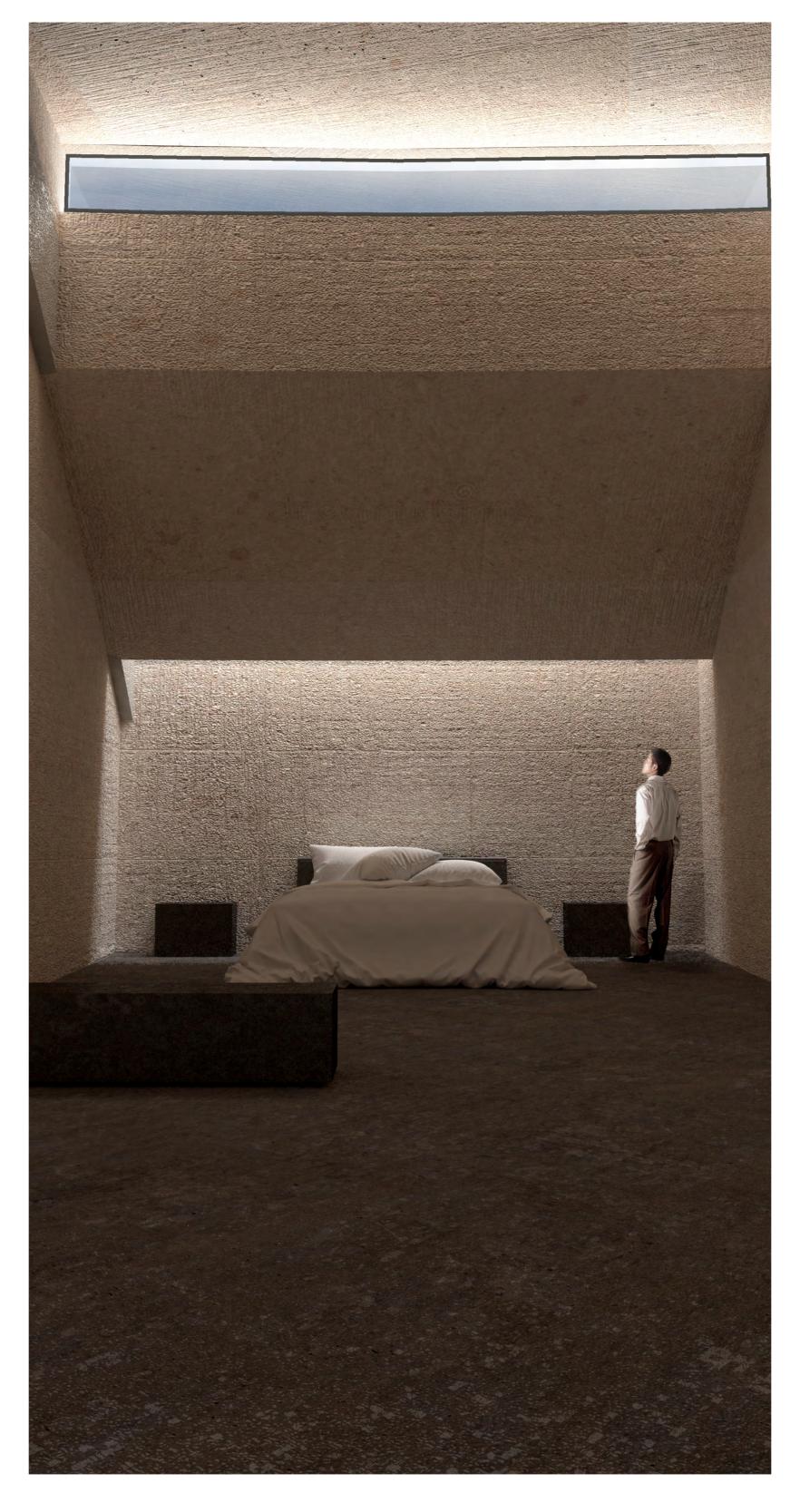
Interior View Visual

2 m

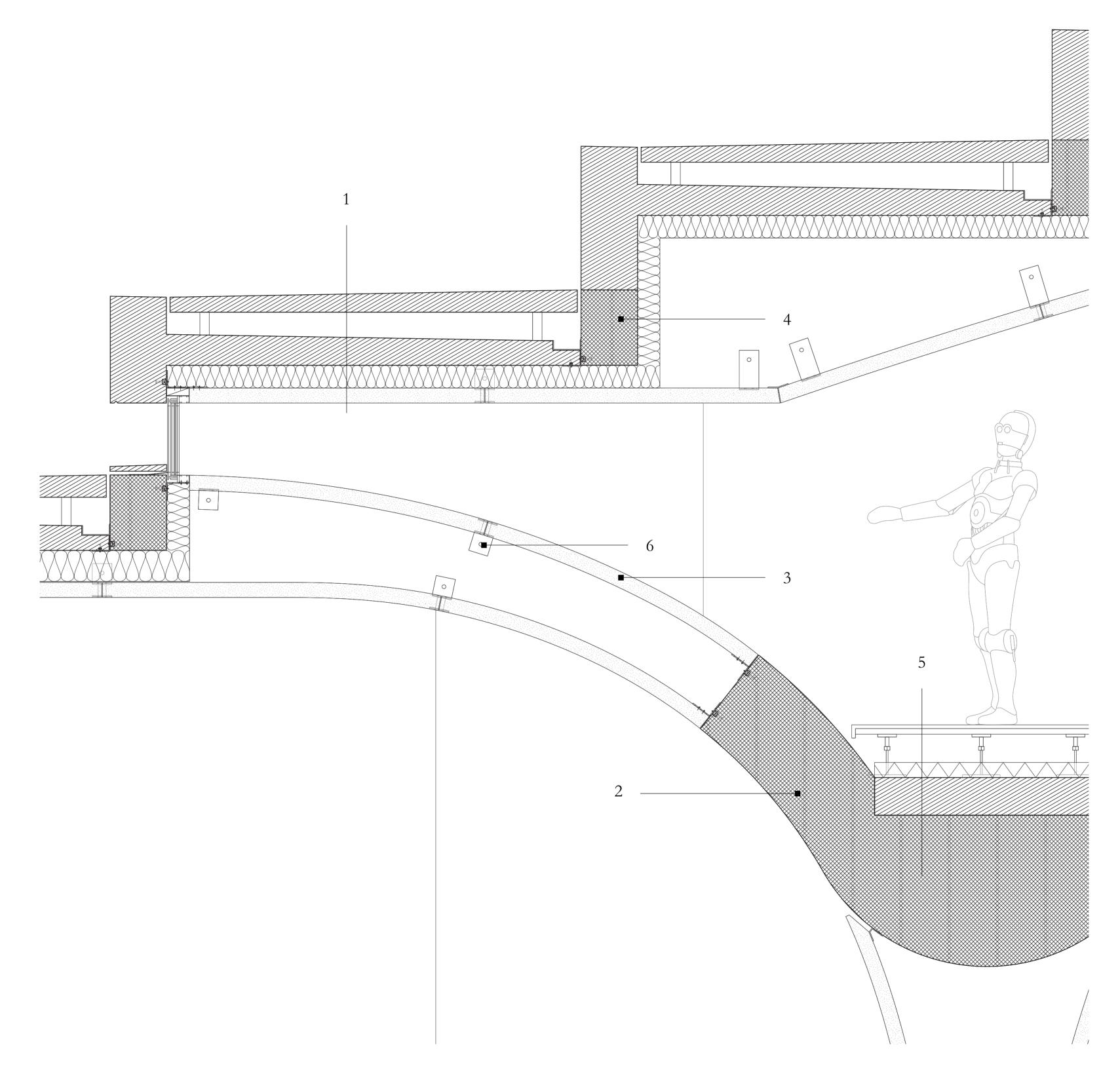


1:10

- (1) 100 mm elevated precast reinforced concrete element Bituminous sheeting seal
 Precast reinforced concrete step module Vapour barrier 150 mm stone wool thermal insulation
- (2) 80 mm prefab concrete panel double curved
- (3) 300 x 400 mm precast curved beam for dome structure
- (4) Sun protection glazing in south 10 mm toughened glass coated 20 mm cavity 2 x 4 mm laminated glass Aluminium frame
- (5) Gutter



Interior View Visual



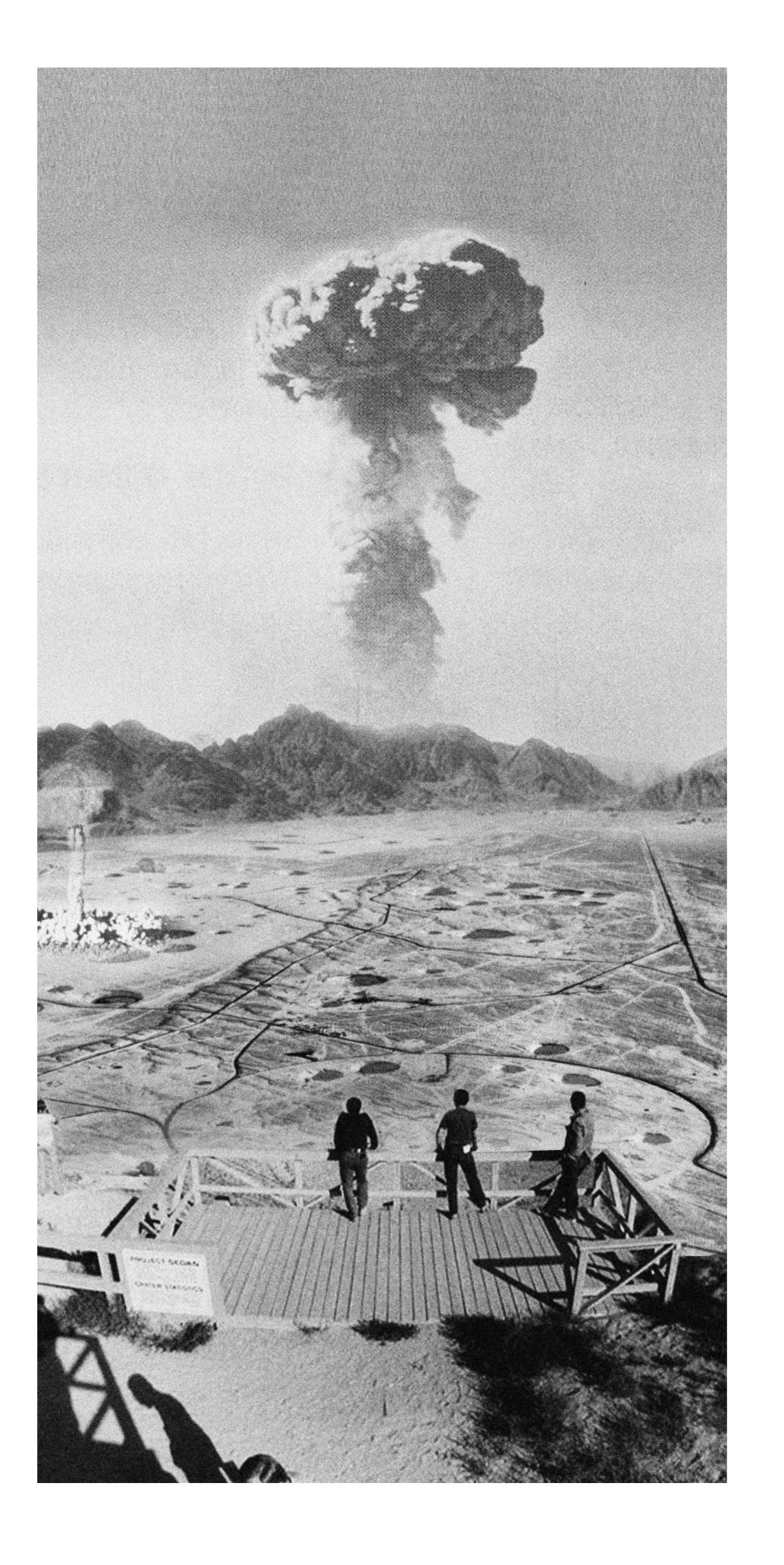
- (1) 100 mm elevated precast reinforced concrete element
 Bituminous sheeting seal
 Precast reinforced concrete step module
 Vapour barrier
 150 mm stone wool thermal insulation
 80mm precast concrete panel curved
- (2) Precast curved special beam
- (3) 80 mm prefab concrete panel double curved
- (4) 300 x 400 mm precast curved beam for dome structure
- (5) 20 mm granite tile flooring
 30 mm double floor
 Raisers
 100 mm rigid foam insulation
 Separation layer
 Precast curved special beam
- (6) 5 mm steel L plates attached to arching structure

Framed Views and Partitions

Section

1:10





Thank you