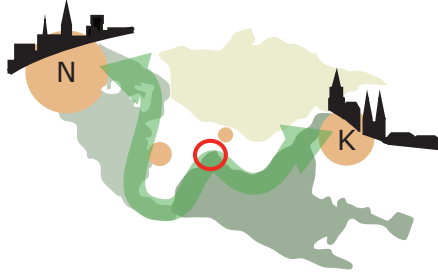


ontwerp: Paul Muselaers
mentor: Joep van der Veen
gecommitteerde: Marie - Jeanne Sas
begeleiding MA+U: Pieter Feenstra,
Jan-Willem van Kuilenburg.
d.d. 21.08.2014

THE MORaine RETREAT



INTRODUCTION

‘The Moraine Retreat’ is a natural embeded retreat / visitors-center located on the moraine between Nijmegen (NL) and Kleve (DU).

A place to contemplate on life, the location/ landscape and it’s history and culture. A visitors-center with more-day ‘retreat-spaces’, offering an excape from the daily life, experiencing and exploring this special site.

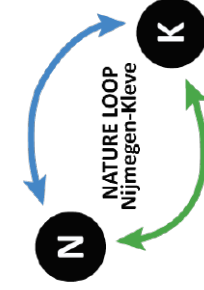
The ‘retreat’ has two categories: a visitors-center for tourists / day-trippers, and an extensive retreat-area for overnight (more day) visitors.

This retreat is named: ‘The Moraine Retreat’ A literal translation of the concept, and an icon for the moraine as an entity leading from Nijmegen (NL) to Kleve (DU). (Boosting identity of the international region).

MAIN TEXT

The main goals of the project are:

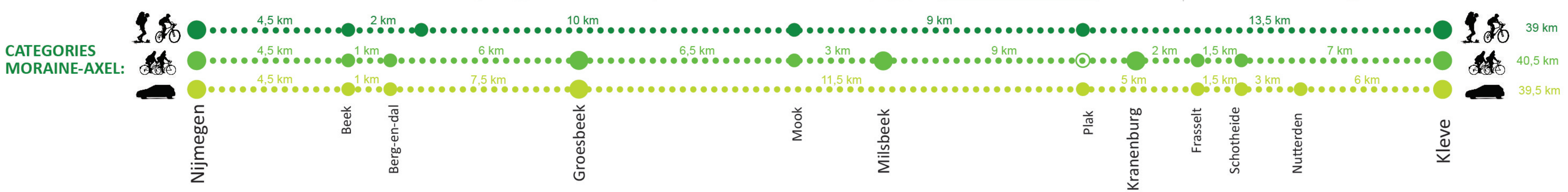
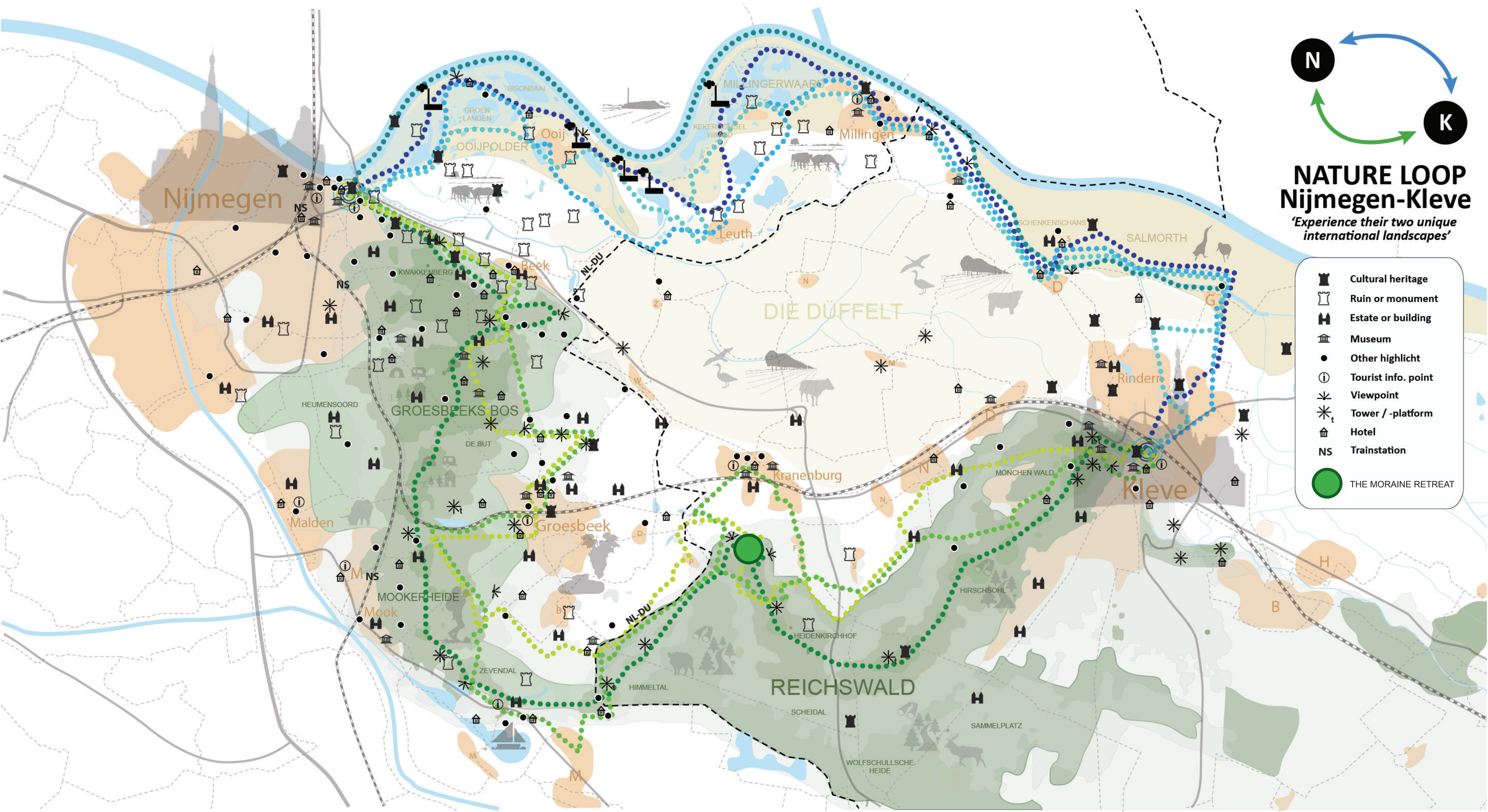
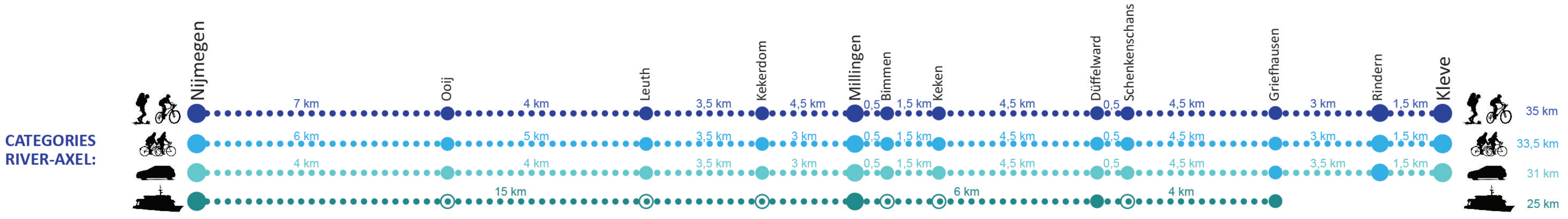
1. Connecting Nijmegen and Kleve throughout a network of moraine-expierce-routes (different routes based on different categories): ‘the Nature-loop’;
2. Breaching the psychological barrier between The Groesbeek valley (NL) and The Kranenburg valley (DU): adding a program in the most subordinated area of the continues forest (on the former war-frontline): a iconic/ symbolic (international) gesture, orientation platform, tourist-visitor center,
3. Creating a tourist-hub for this (mainly) subordinated part of The Reichswald.
4. Adding a luxury retreat in nature. A place to contemplate on the natural surroundings, history, culture and life itself.



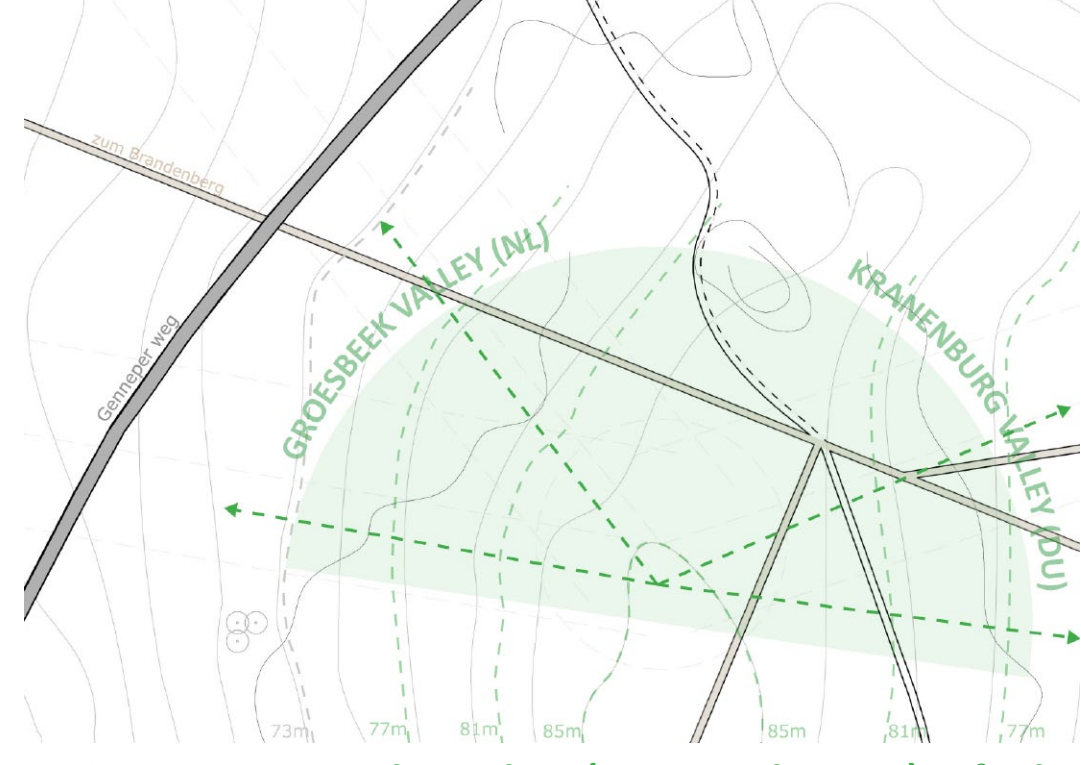
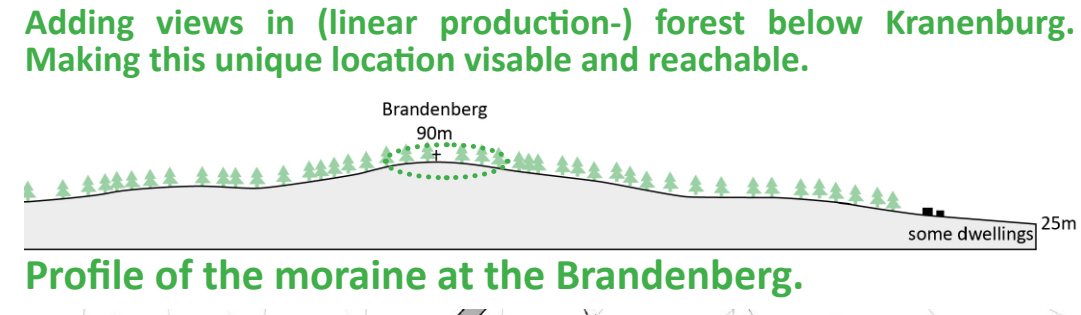
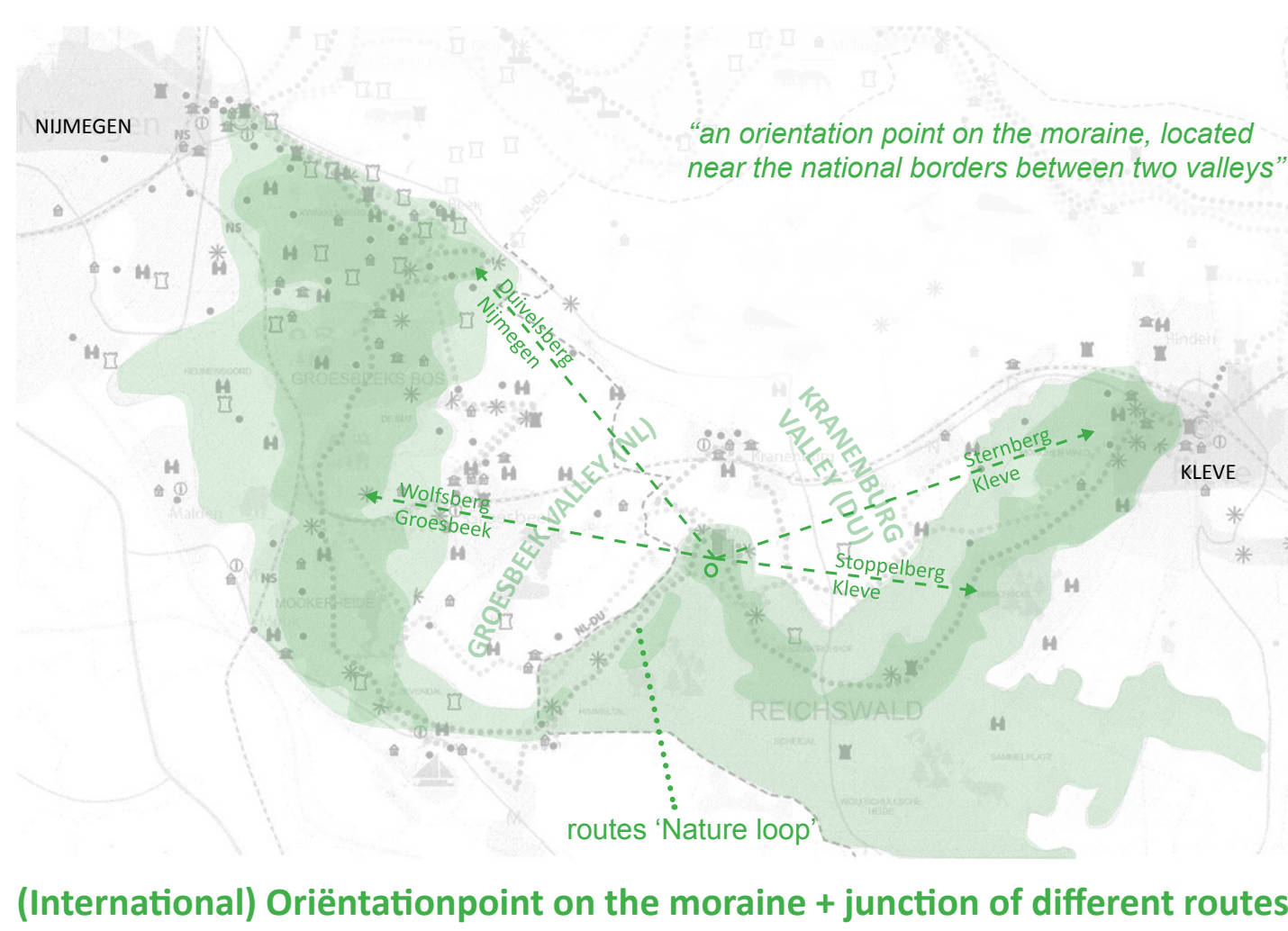
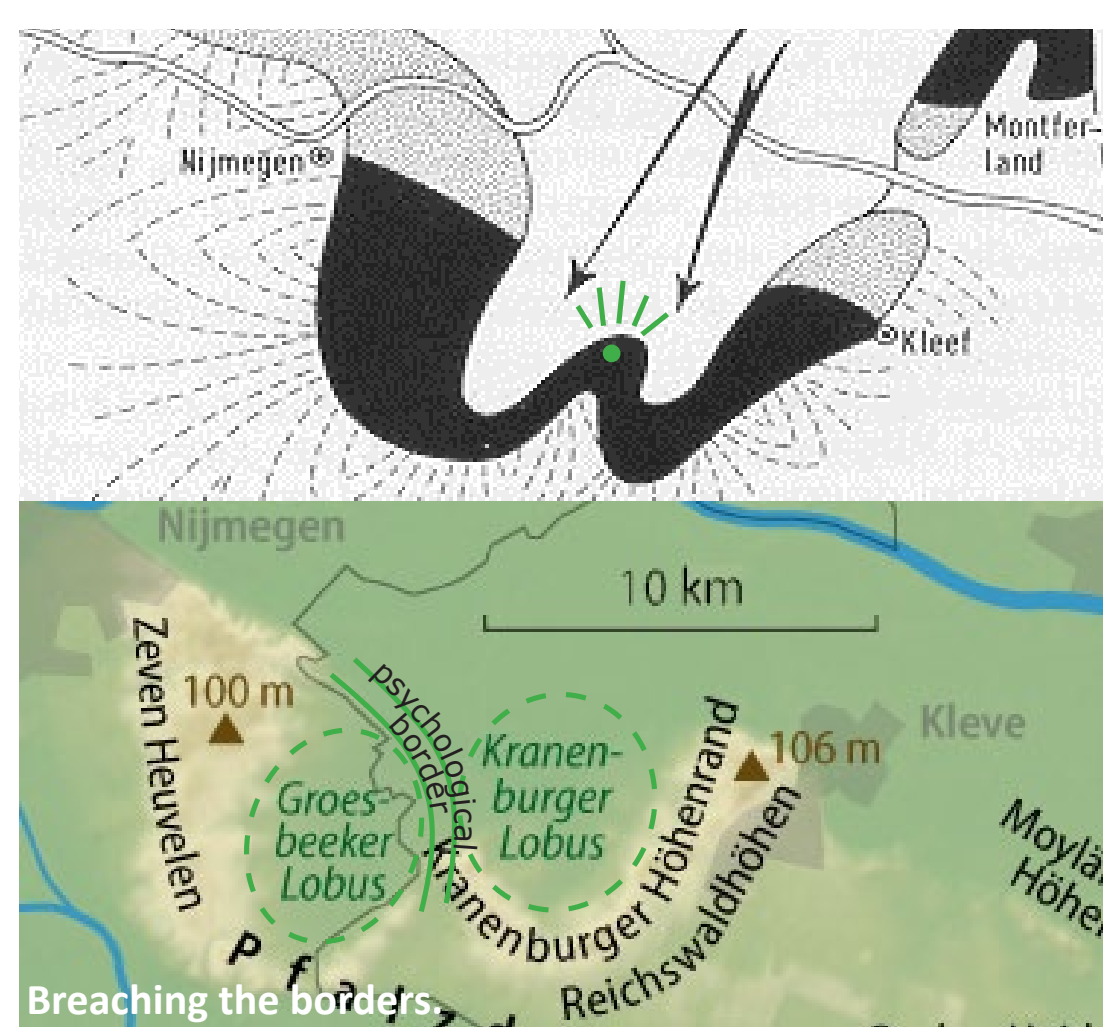
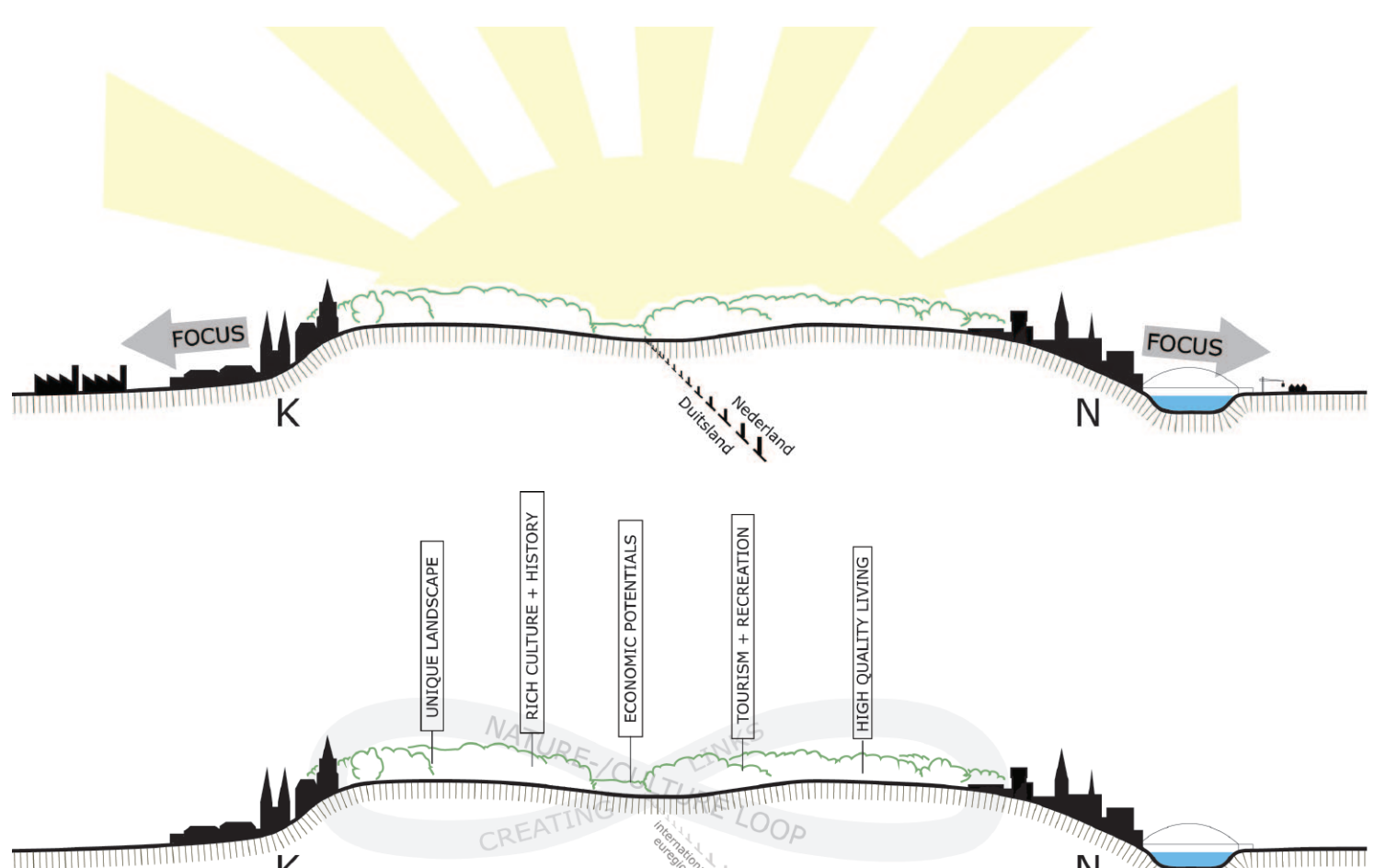
a recreational landmark on ‘The Nature Loop’ between Nijmegen & Kleve. Paul Muselaers

THE MORaine-RETREAT:





Tourist map of The Nature Loop: routes between Nijmegen and Kleve



CONCEPT:

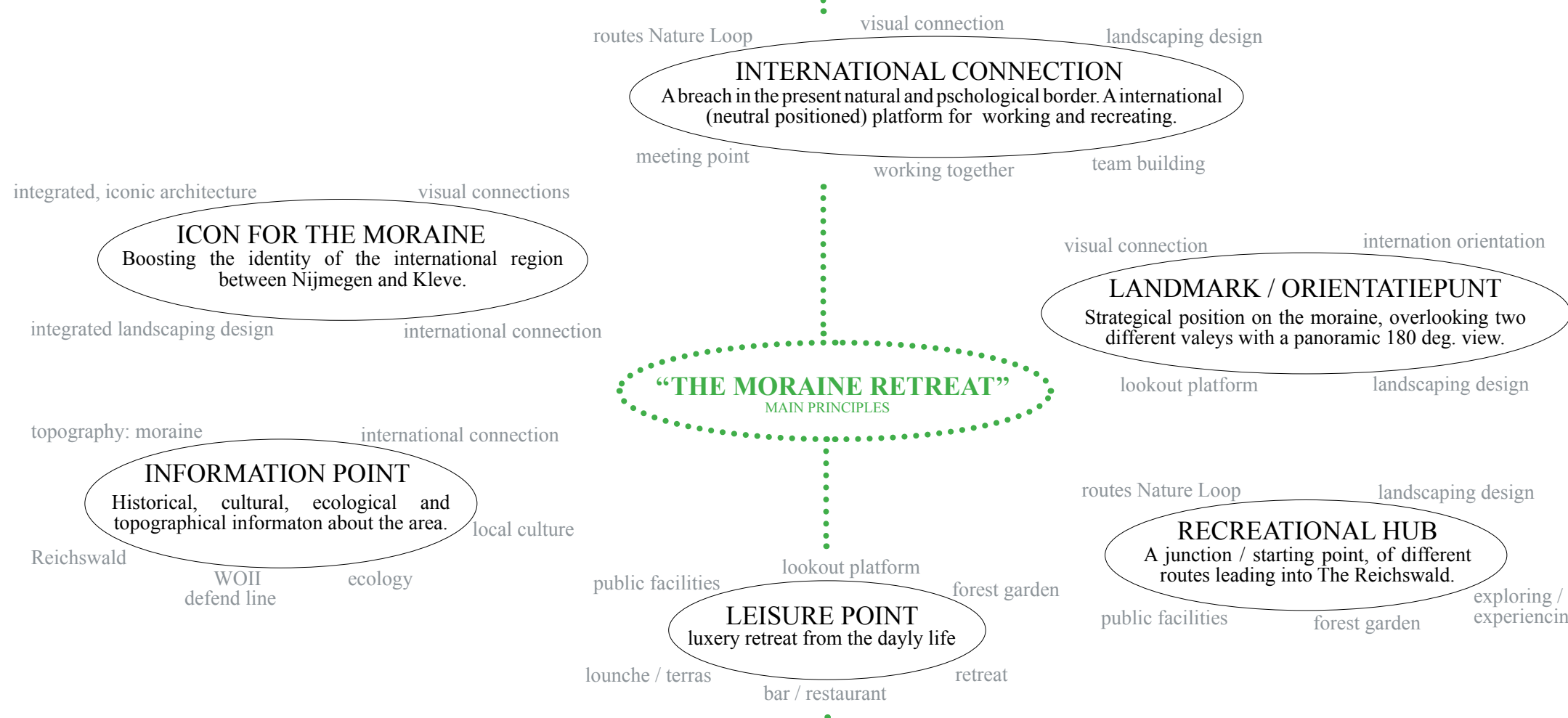
A 'retreat' located on the moraine:
A place to contemplate on life, the location/ landscape and it's history and culture. A visitors-center with more-day 'retreat-spaces', offering an escape from the daily life, experiencing and exploring this special site.

The 'retreat' has two categories: a visitors-center for tourists / day-trips, and an extensive retreat-area for overnight (more day) visitors.



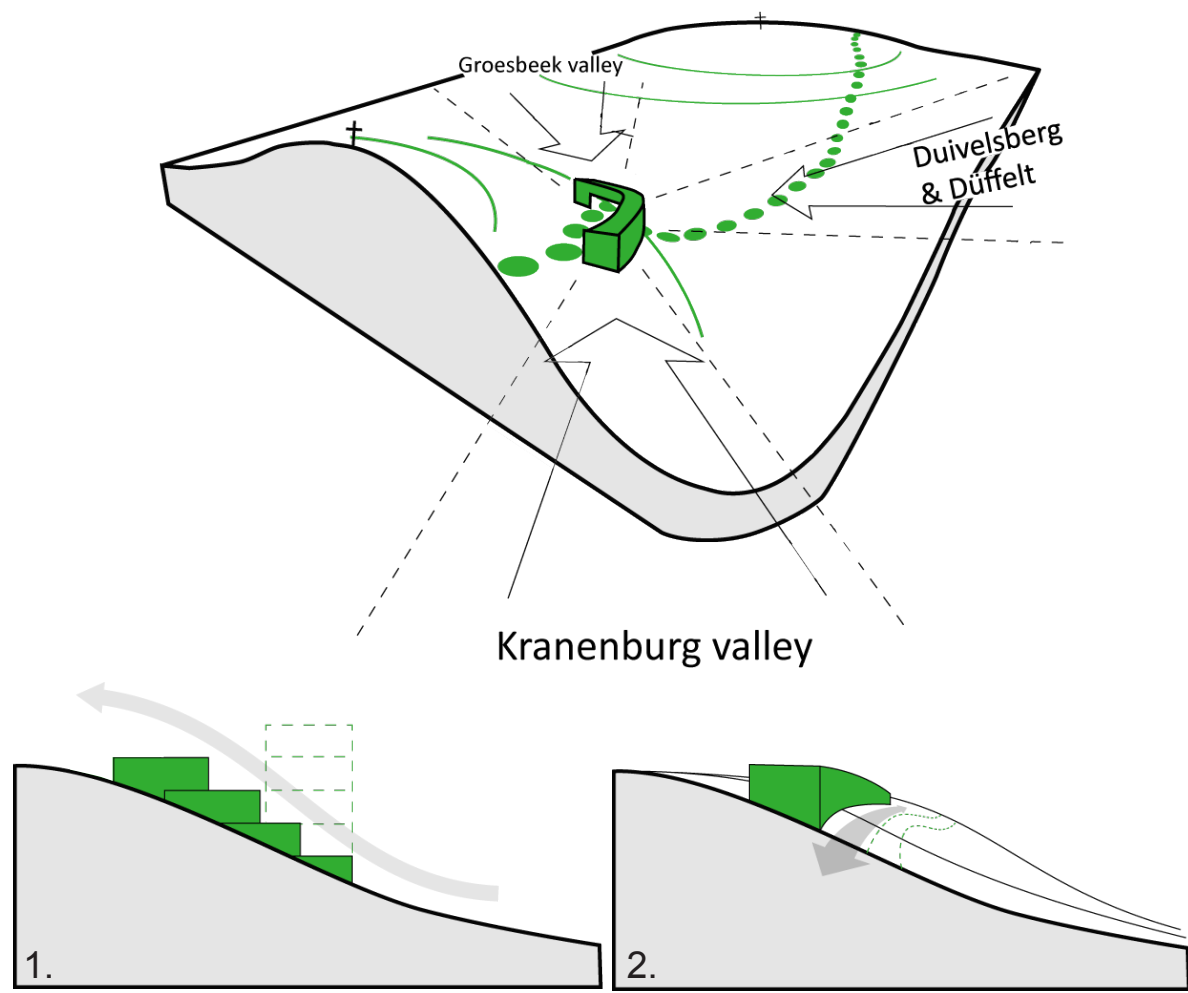
This retreat is named: 'The Moraine Retreat'

A literal translation of the concept, and an icon for the moraine as an entity leading from Nijmegen (NL) to Kleve (DU). (Boosting identity of the international region).



PROGRAM:

- 1. LOOKOUT PLATFORM**
 - public platform against/on the hill-ridge/top of The Brandenburg.
 - 180 deg. view throught the thinned out forest
 - landscaping design: forest garden with historical elements (WOII)
 - benches and information boards
- 2. VISITOR CENTER/HUB**
 - routes into The Reichswald.
 - forest garden with historical relicts of WOII
 - tourist-/public information center.
 - exposition space
 - Grand-cafe
 - indoor & outdoor lounge / terras
 - public facilities: toilets, water point & bike- repair-/rental car parking
- 3. RETREAT-SPACE**
 - sleeping-rooms
 - multifunctional group-space
 - silent-lounge / meditation
 - private terras

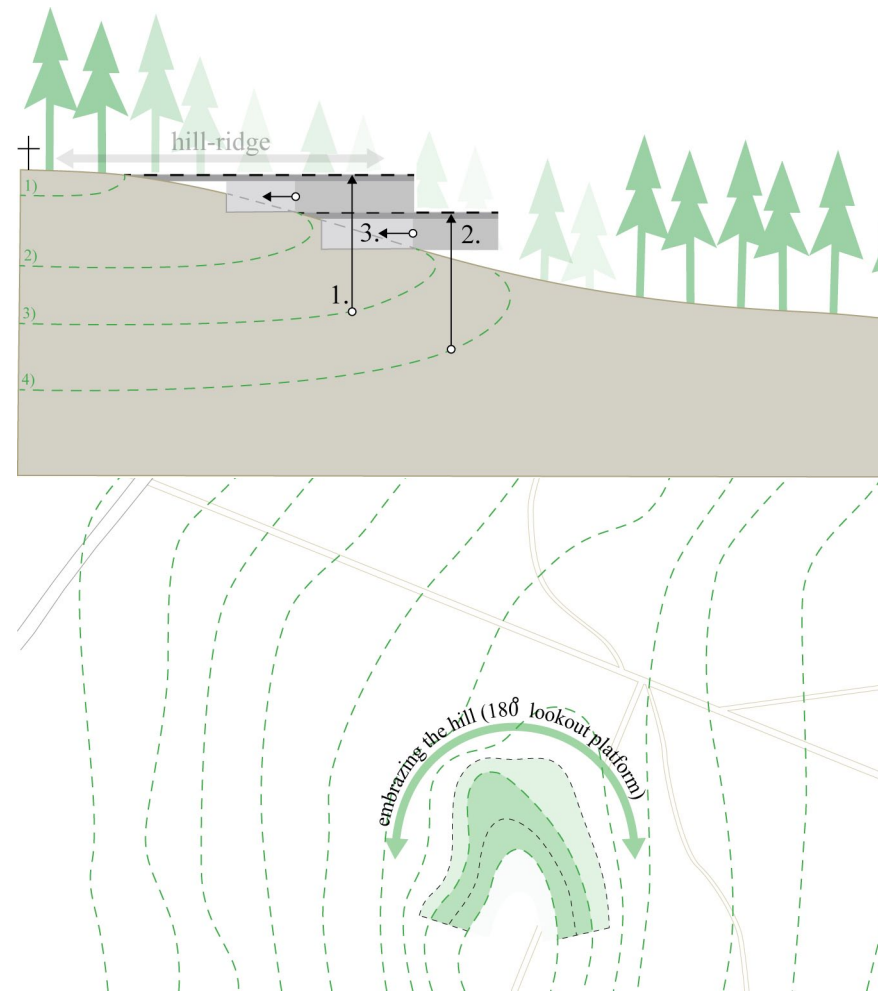


SPATIAL CONCEPT

1. Stowed against (the moraine);
2. Inflected on (the moraine).

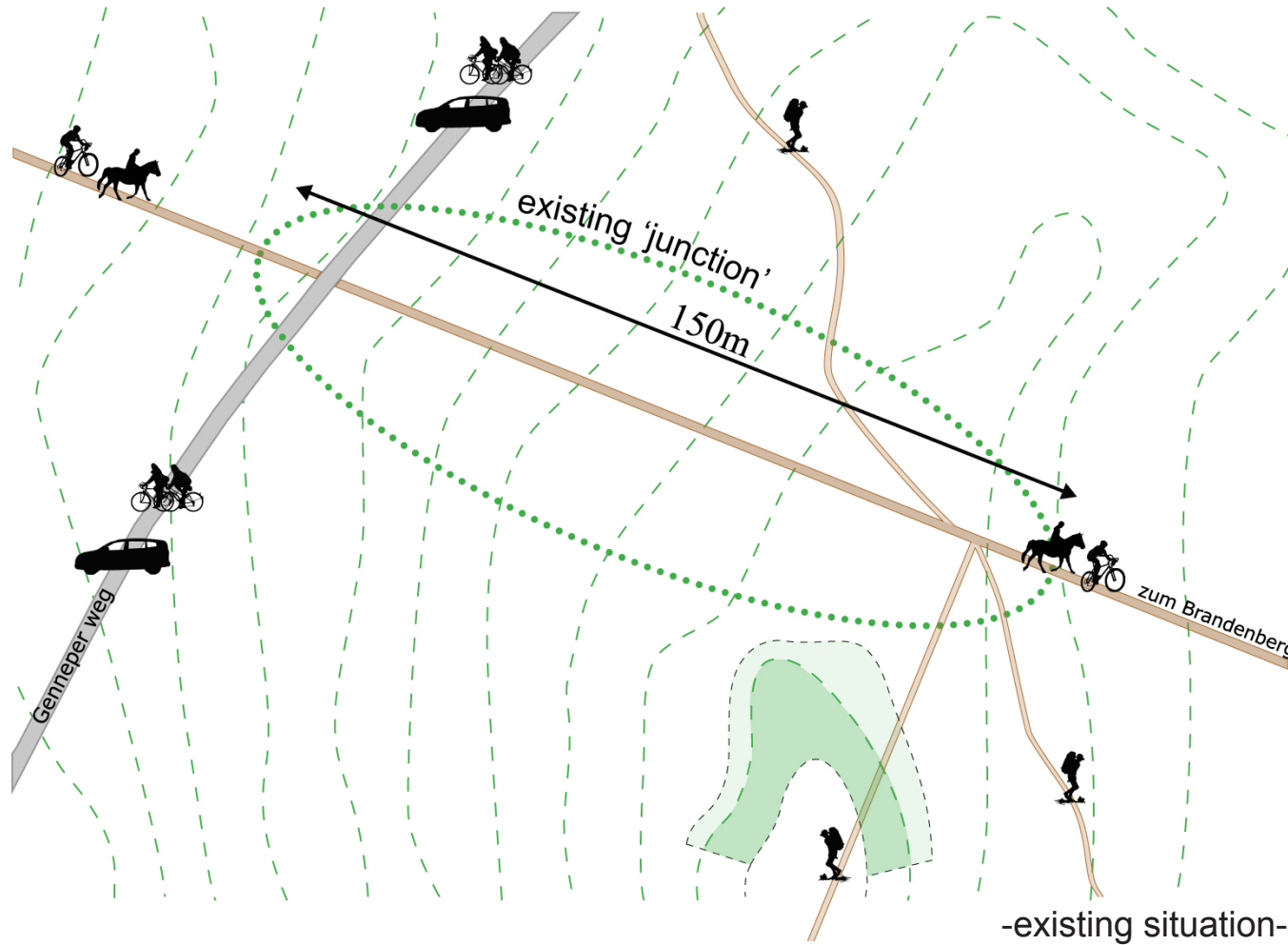
The building will be build against the moraine, on the highest point of the location. Embracing The Brandenburg, on a (respectful) subordinate way:

- The top of the hill must remain intact;
- The building-volume must be lower than this point.



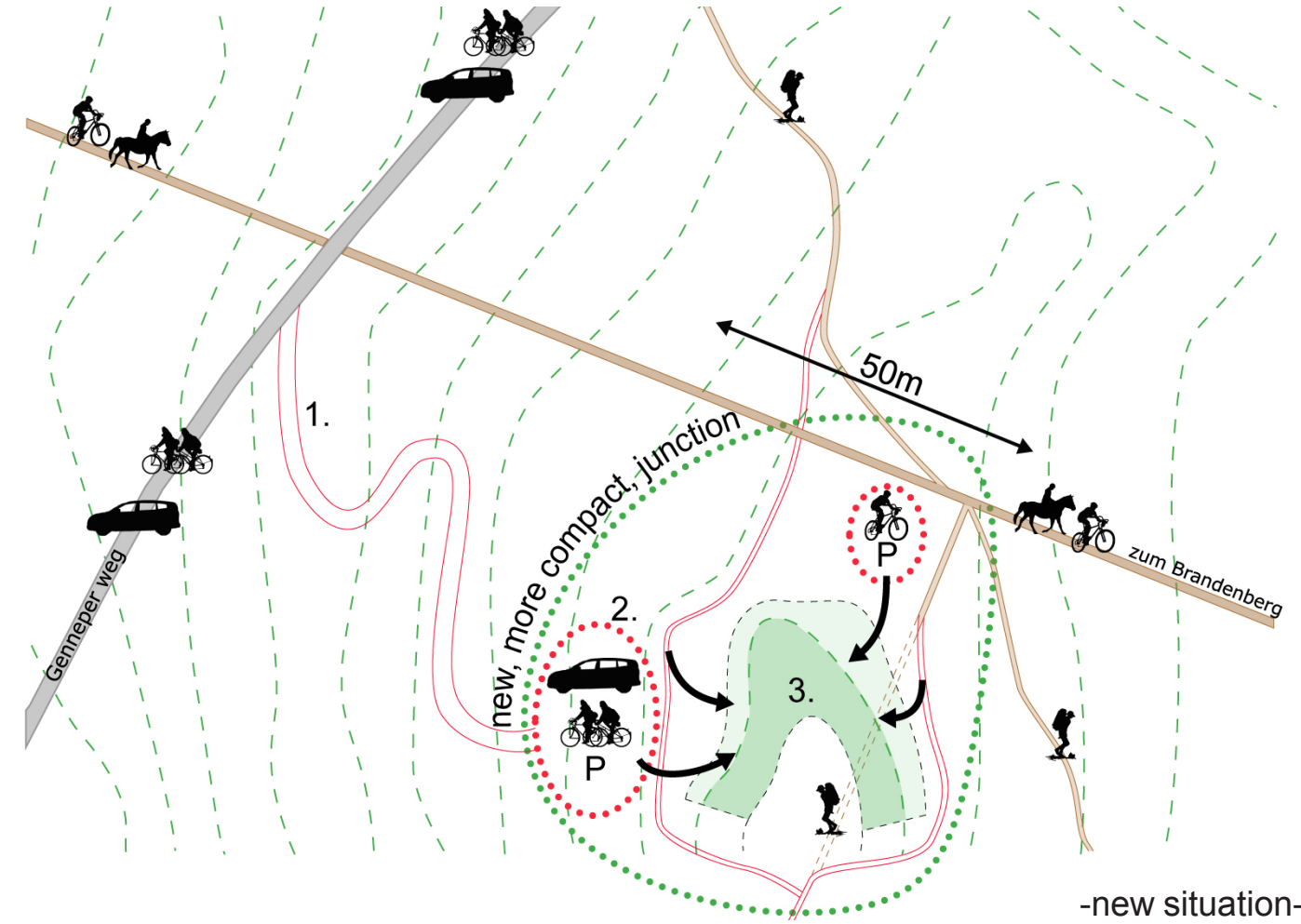
INTEGRATION TOPOGRAPHY

1. The contours of the topography determine the contours of the buildings floor-slabs;
2. Program is added between, and on these layers;
3. To integrate the different layers, turning the building into one robust entity, the building must be partly extended into the hill.



INTEGRATION ROUTES (NATURE-LOOP)

On the project area different recreational routes (Nature-loop routes) cross each other. However this 'junction' is rather broad, and poorly visible. The Moraine Retreat will function as a recreational hub for tourists and Nature-loopers. Therefore the building must have a central position between this different paths. New paths and parking spots are added, to create a new more compact junction near the on the plan site. And create easy transition and accessibility.



INTEGRATION ROUTES (NATURE-LOOP)

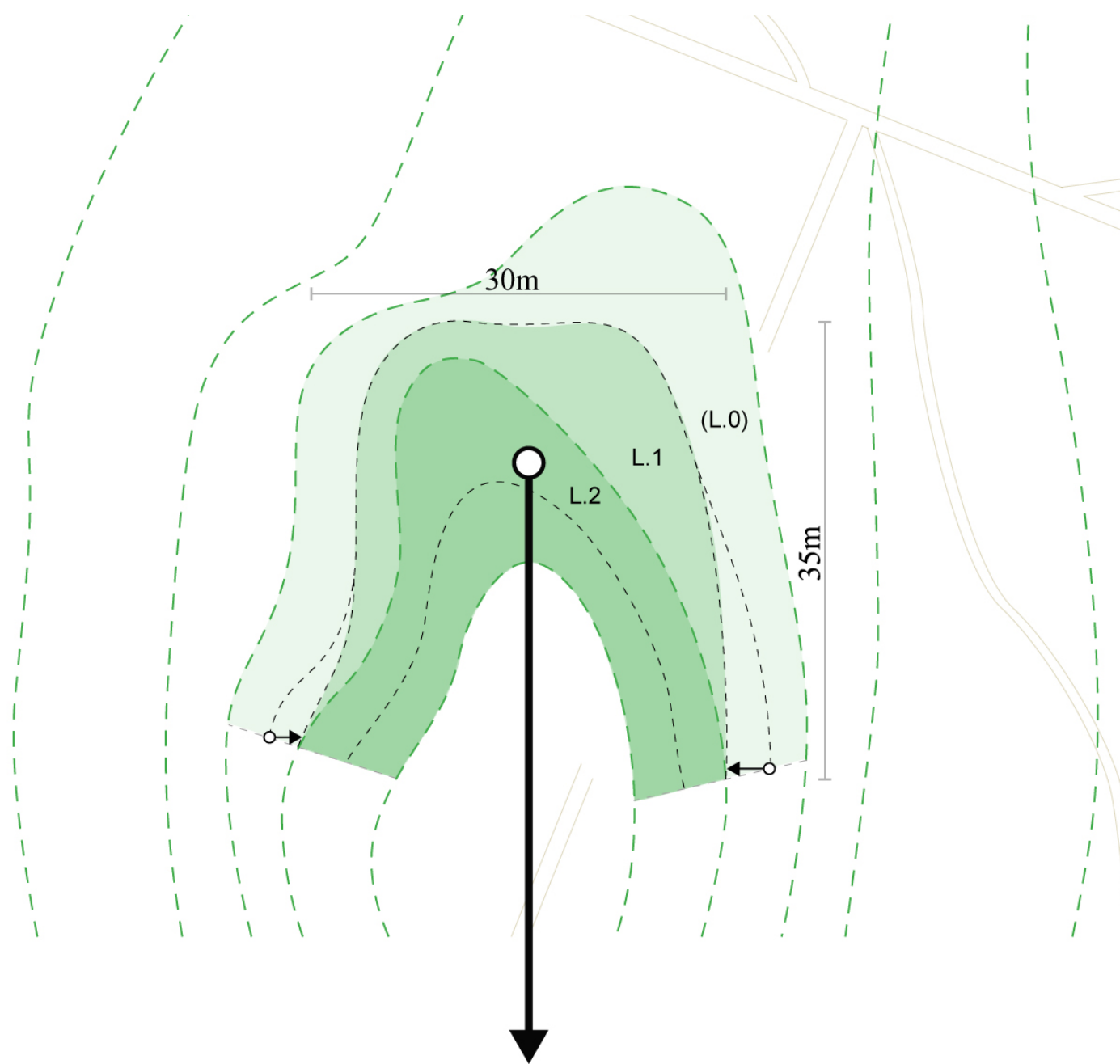
1. A drive-way and two new paths link existing routes to the plan site, creating a real junction;
2. Cars and bikes can be parked near the building, on two spots in the forest (integrated in the landscape);
3. The Moraine Retreat is easy accessible from the parking spots, and the surrounding paths. However no fancy walk paths lead into the building. The terrace (and entrances) is accessible from the surrounding hill-side.



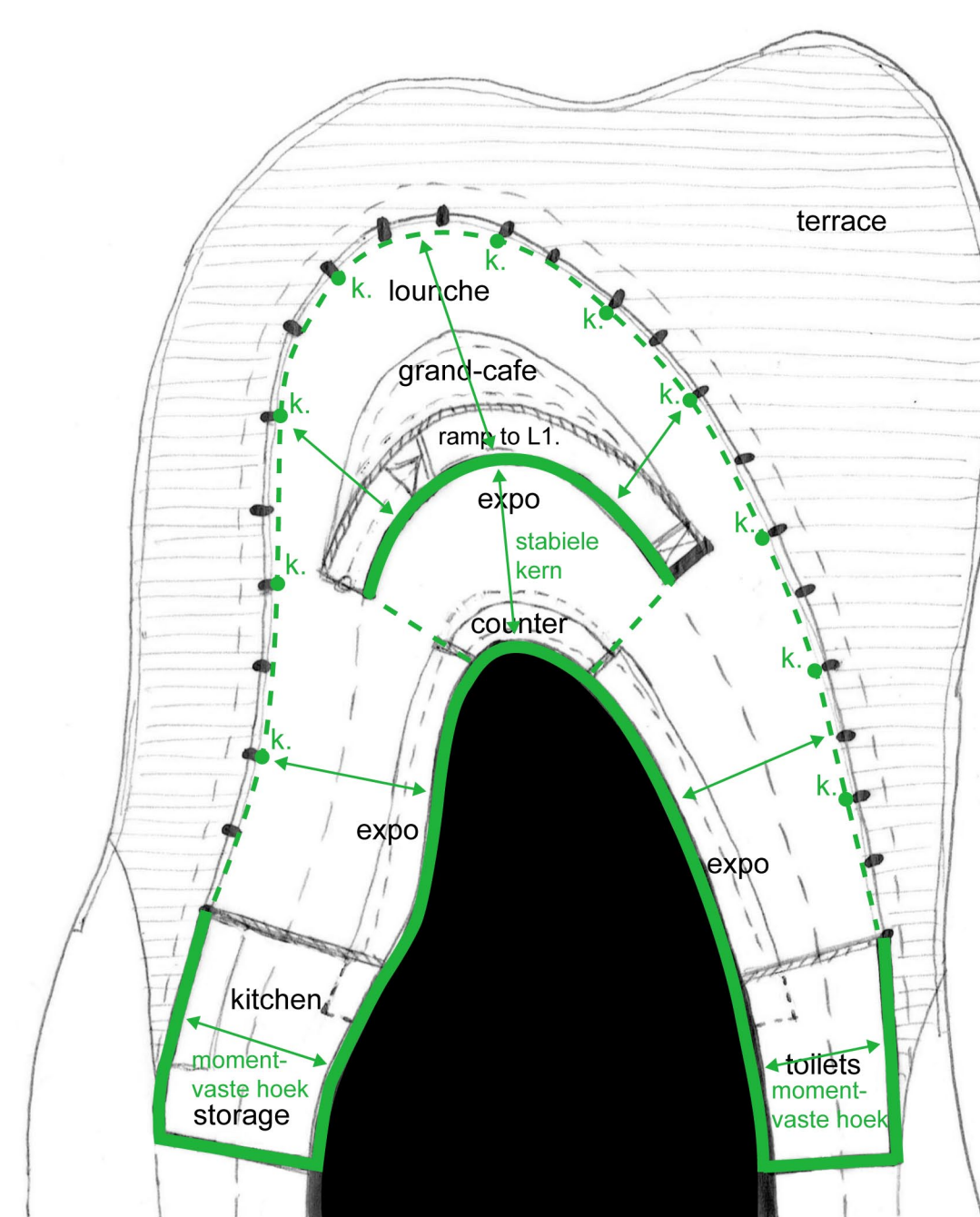
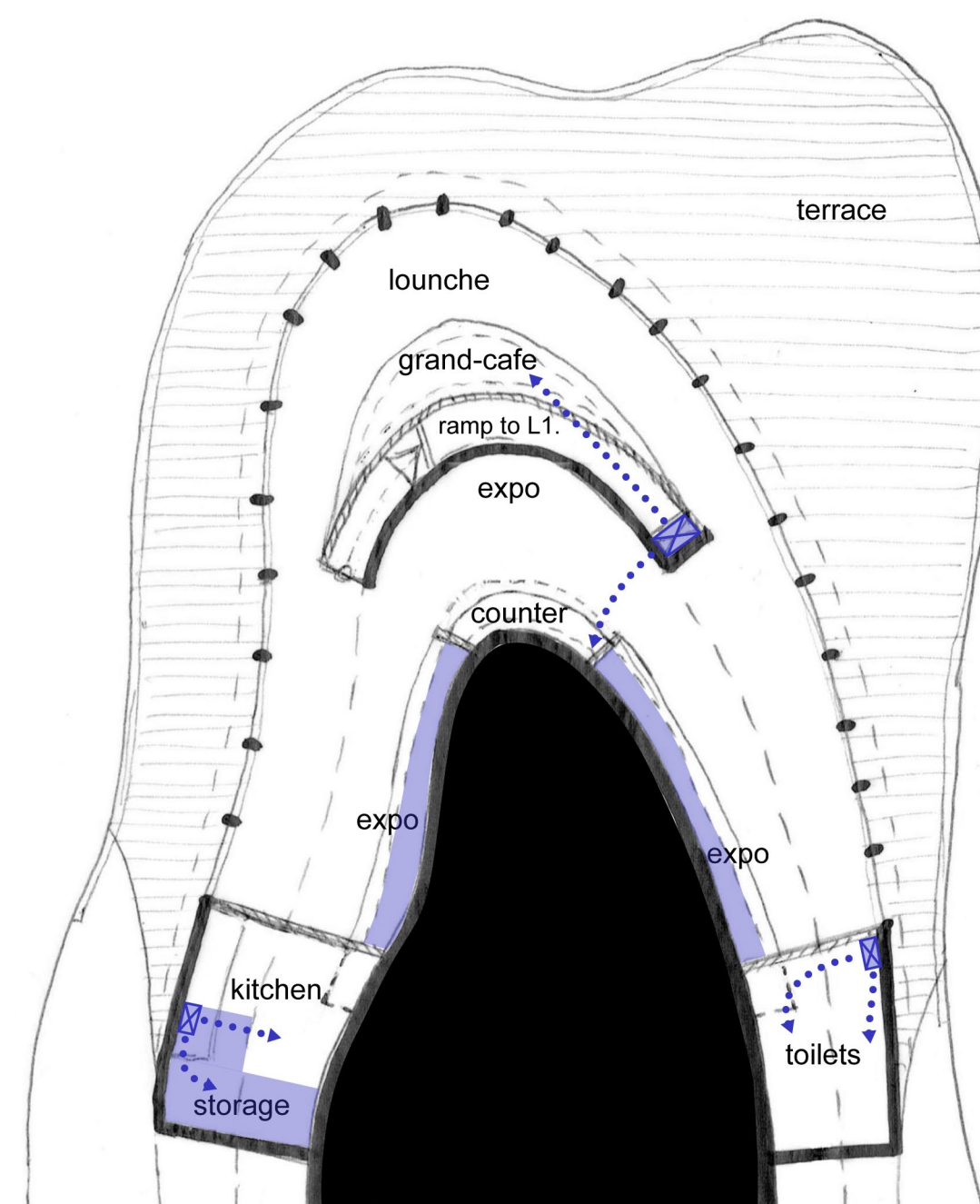
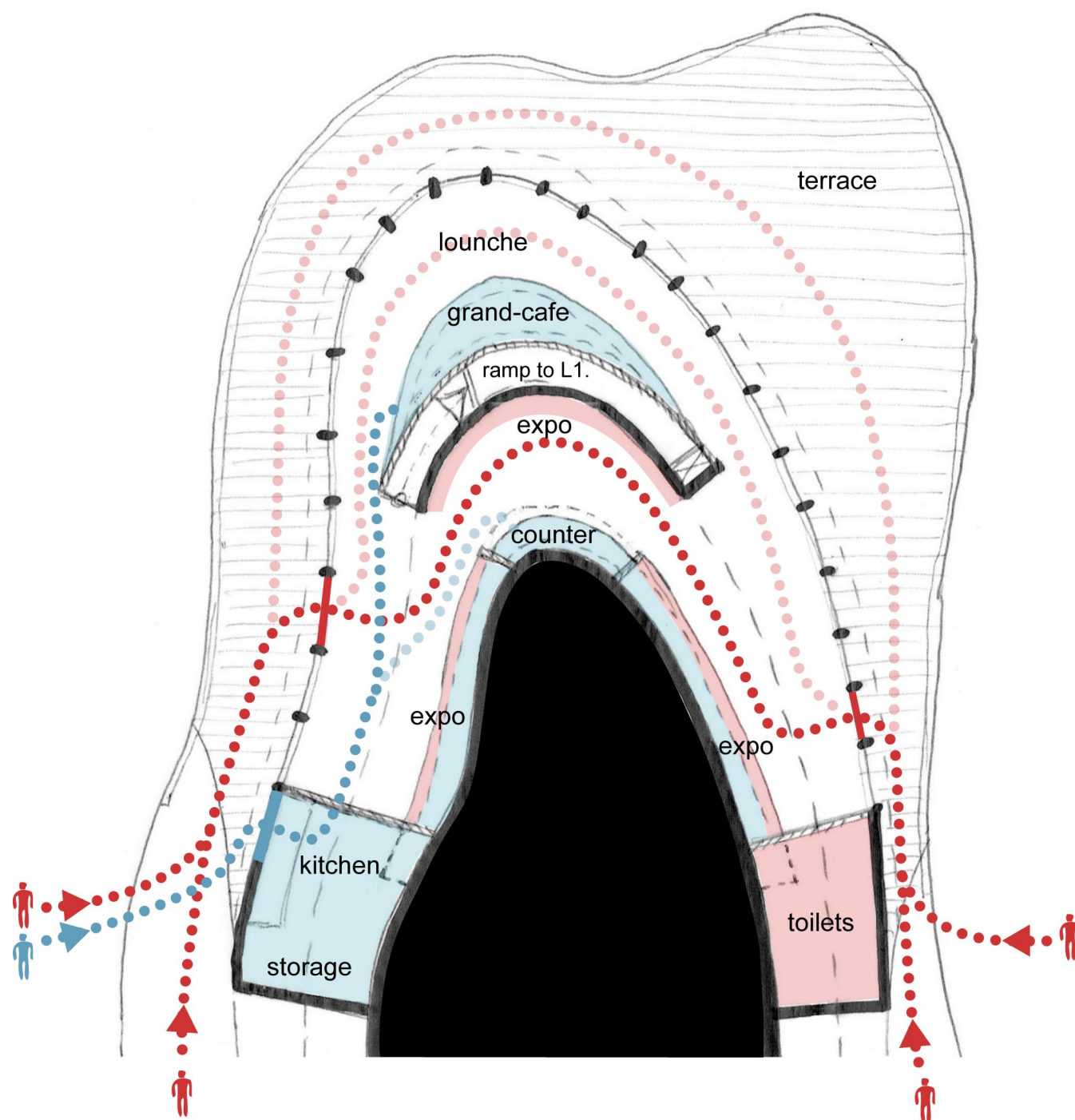
INTEGRATION FOREST / LANDSCAPE

1. To create views to the surrounding valleys, the forest must be thinned out to approximately 50-75m, thereby creating a forest-garden. A transition between the dense forest and the building;
2. The contours of this landscaping design will be made by the existing historical trenches. Bringing this hidden historical elements to the attention;
3. Also the existing routes/paths will be accentuated;
4. The site of the hidden bunker-hill is integrated in the landscaping design. It will be visible from the building and the lookout platform above;
5. The building blends into the landscaping design.

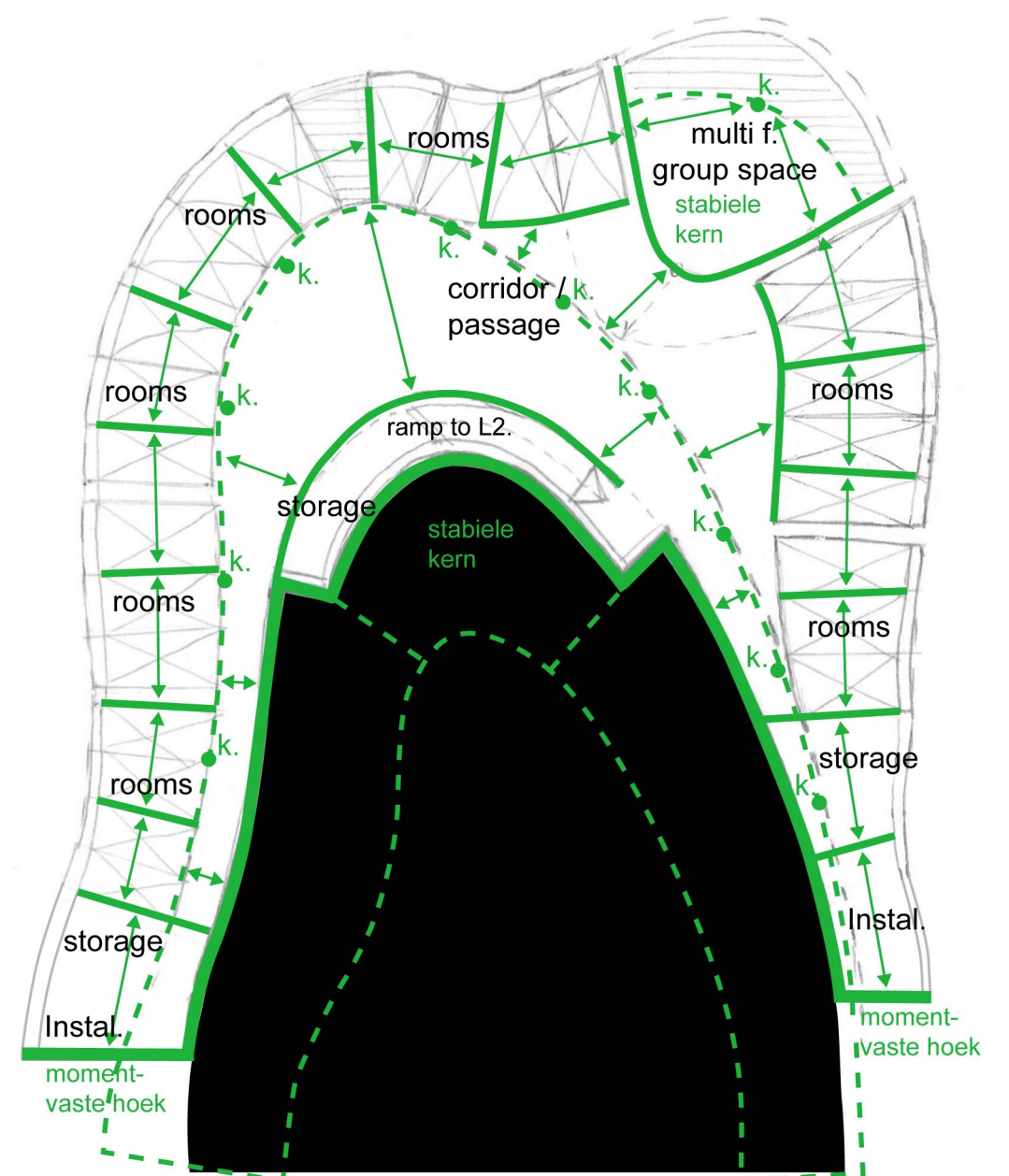
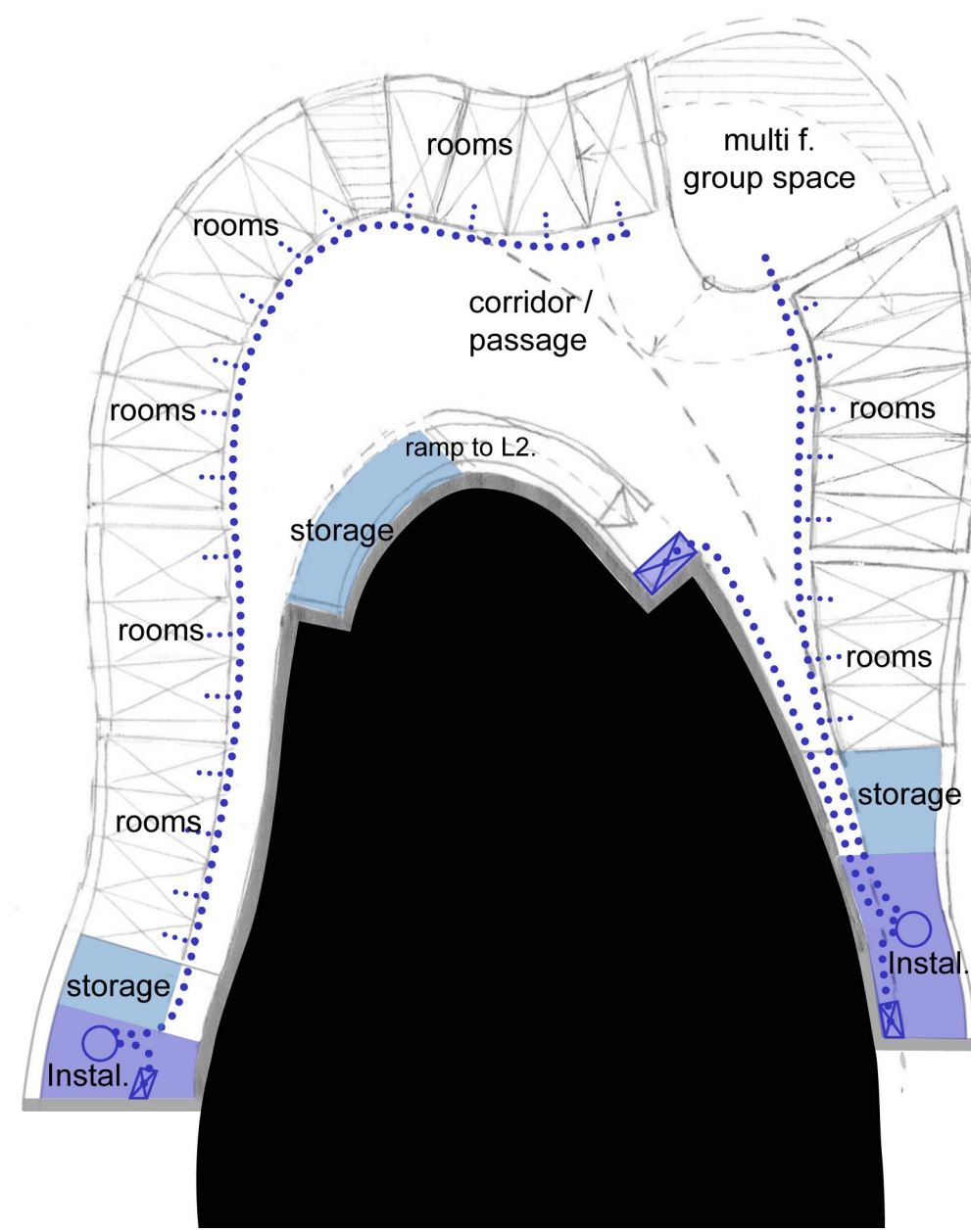
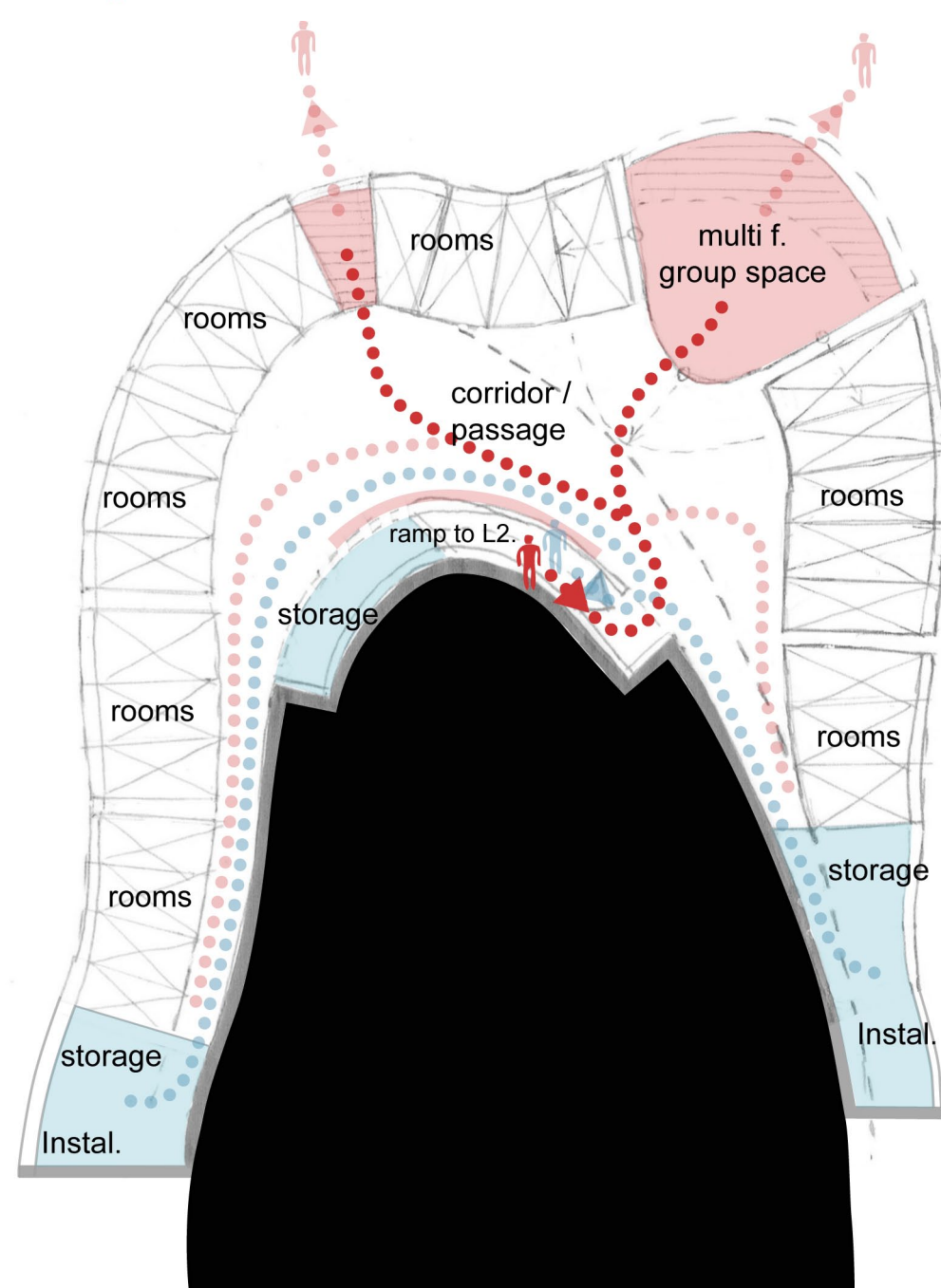
BUILDINGS SPATIAL CONFIGURATION



LAYER 2: VISITOR-CENTER



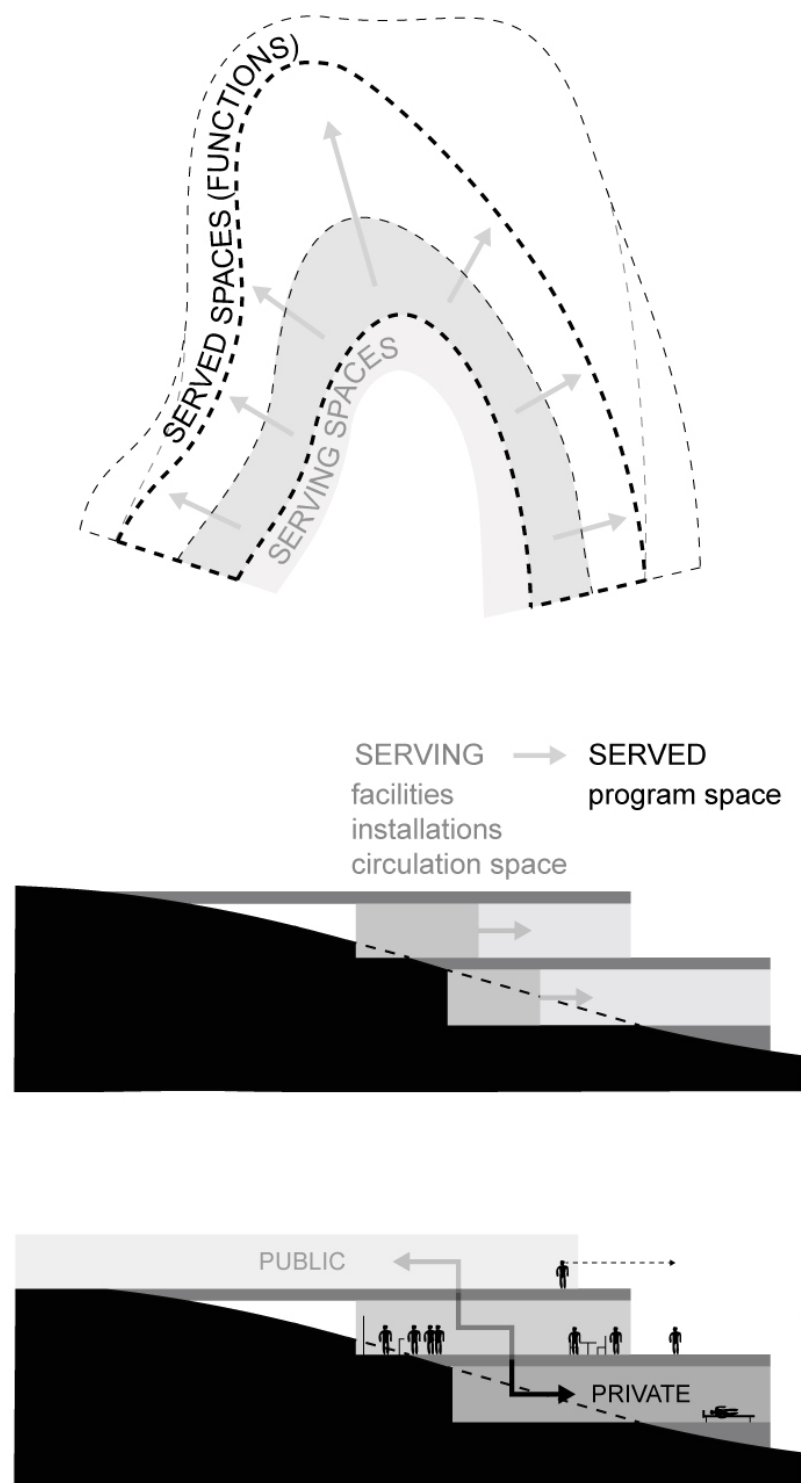
LAYER 1: RETREAT-SPACES



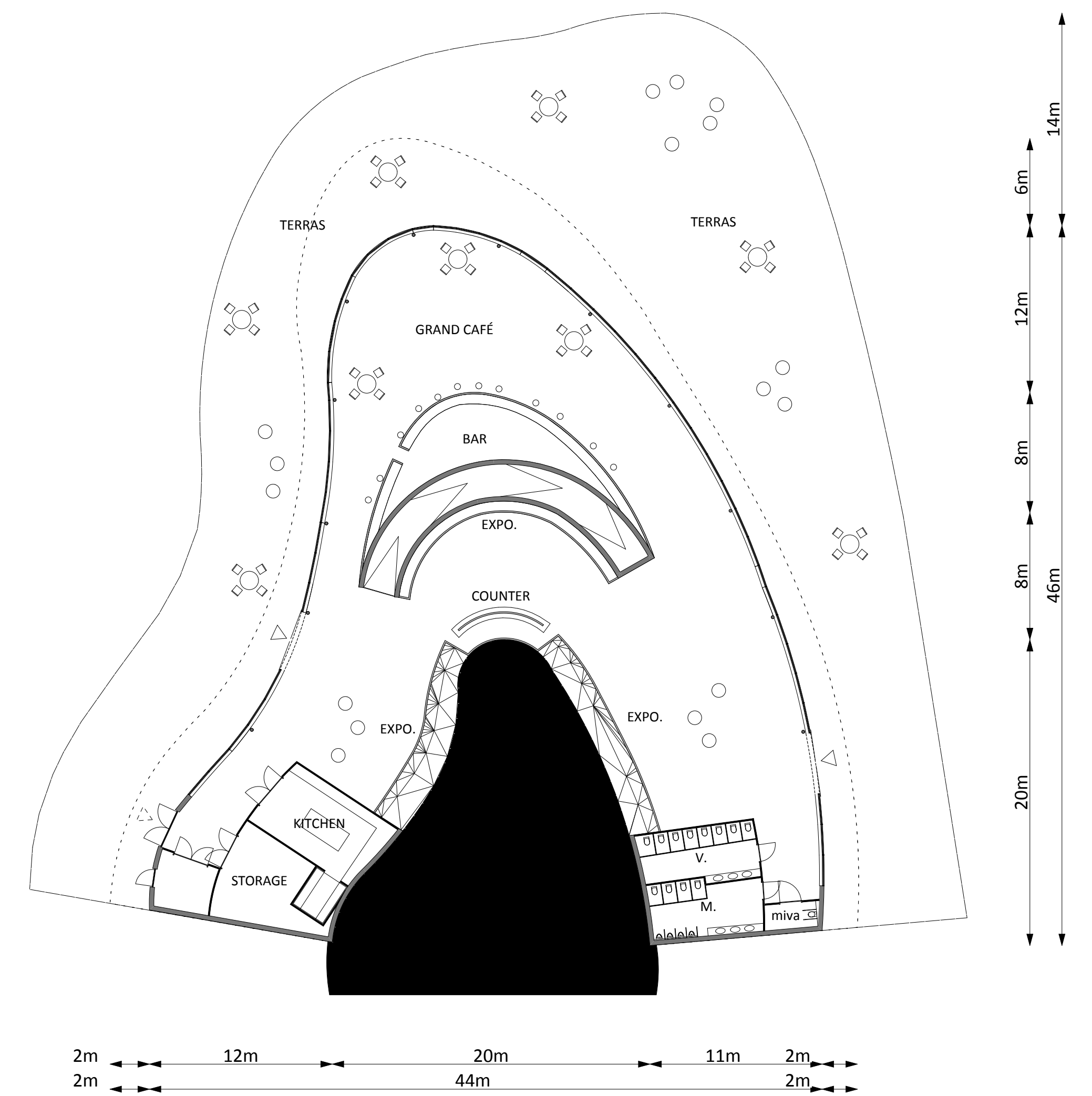
ROUTES AND AREA'S

INSTALLATIONS AND TECHNICAL SPACE

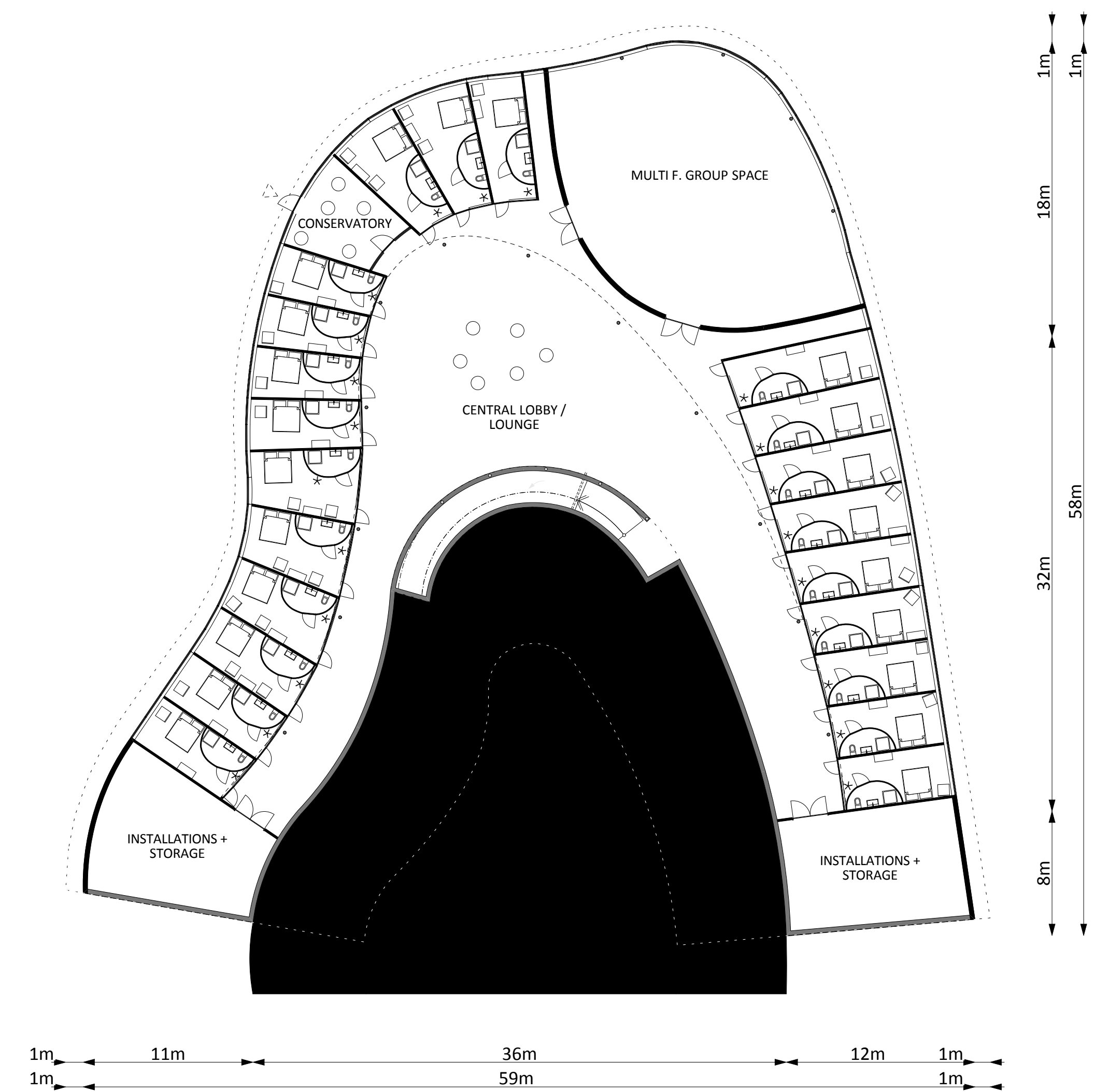
CONSTRUCTION CONCEPT

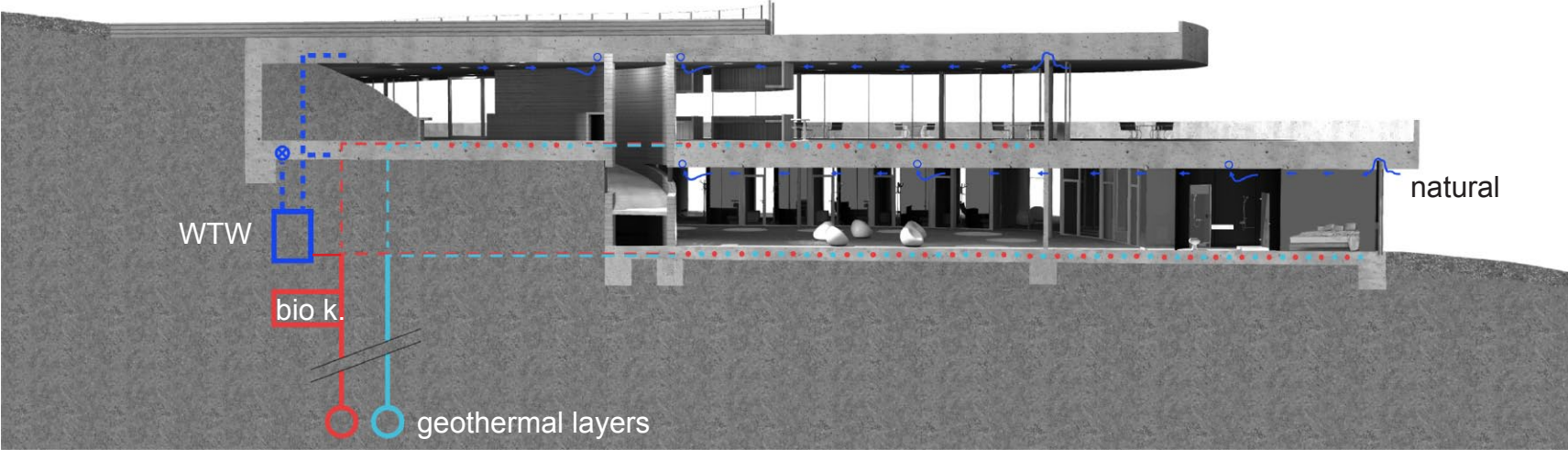


LAYER 2: VISITOR-CENTER



LAYER 1: RETREAT-SPACES

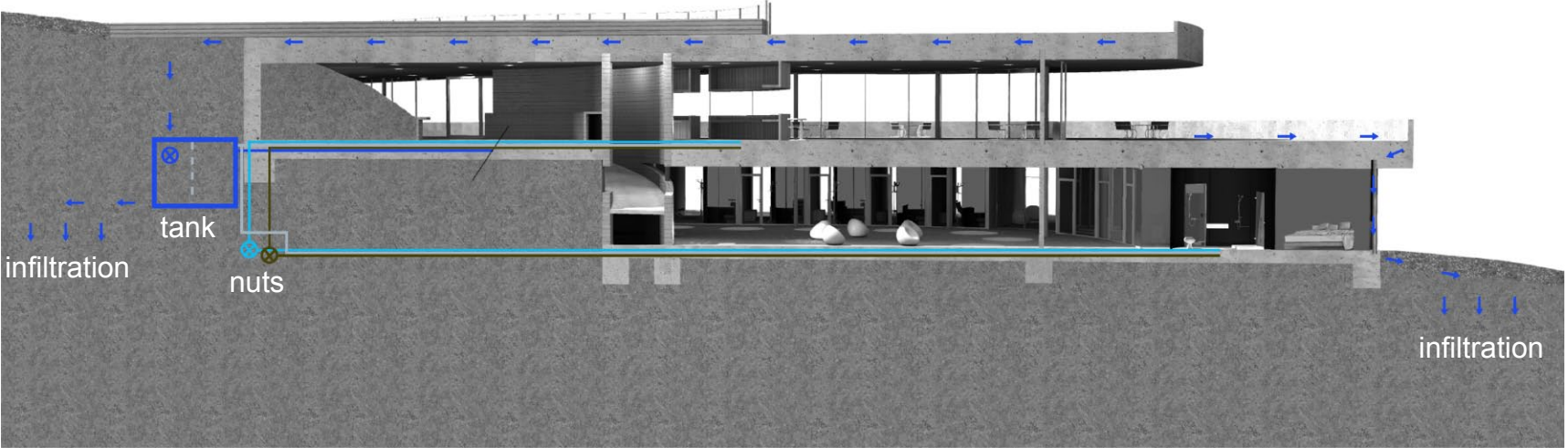




INSTALLATION CONCEPT: ventilation and heating/cooling

Heating/Cooling:
- LTV: middels vloerverwarming (pcv buizen in 80mm dekvloer);
- WARMTE-POMP (80m diep, in zandgrond stuwwal) MET WTW;
- BIO-PALLETKACHEL (om LTV (per segment) bij te stoken): de biokachel heeft een automatisch pallet systeem die centraal bediend kan worden. De pallets kunnen zelf gemaakt worden uit snoeiafval. Op die manier wordt het tevens de omliggende bos-tuin onderhouden.

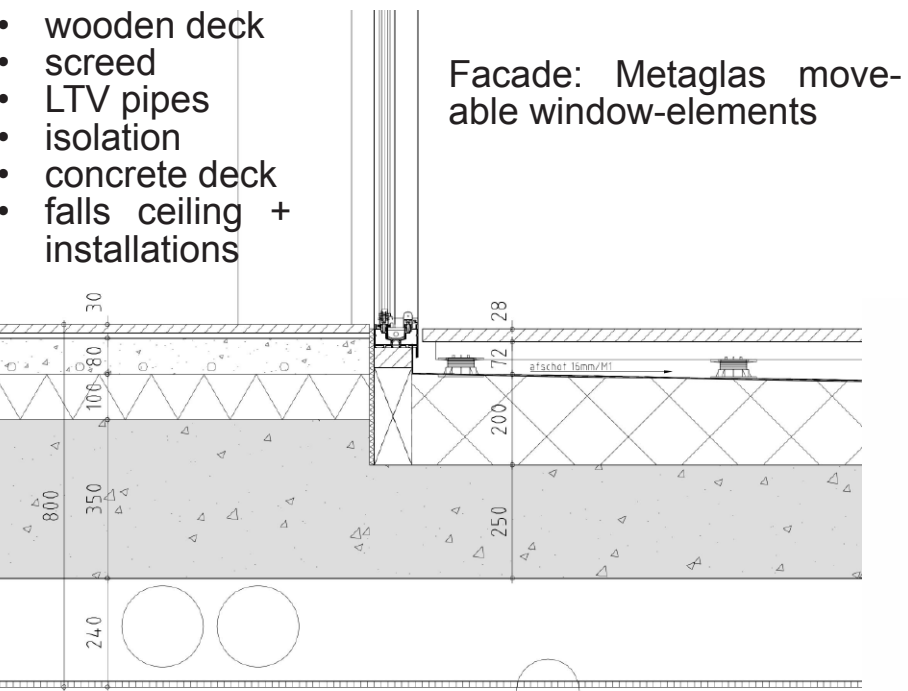
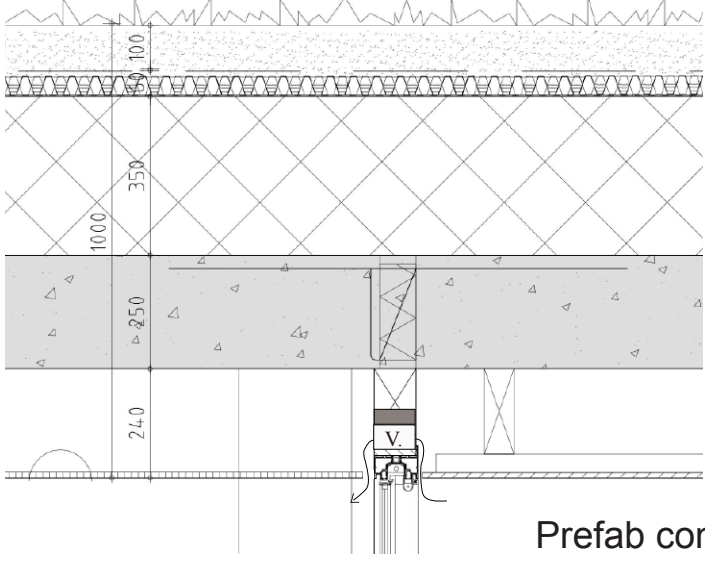
Ventilation:
- NATUURLIJKE TOEVOER: middels ventilatieroosters (uit het zicht gemonteerd) boven de puien;
- MECHANISCHE AFVOER: puntgewijs via het verlaagde systeemplafond.



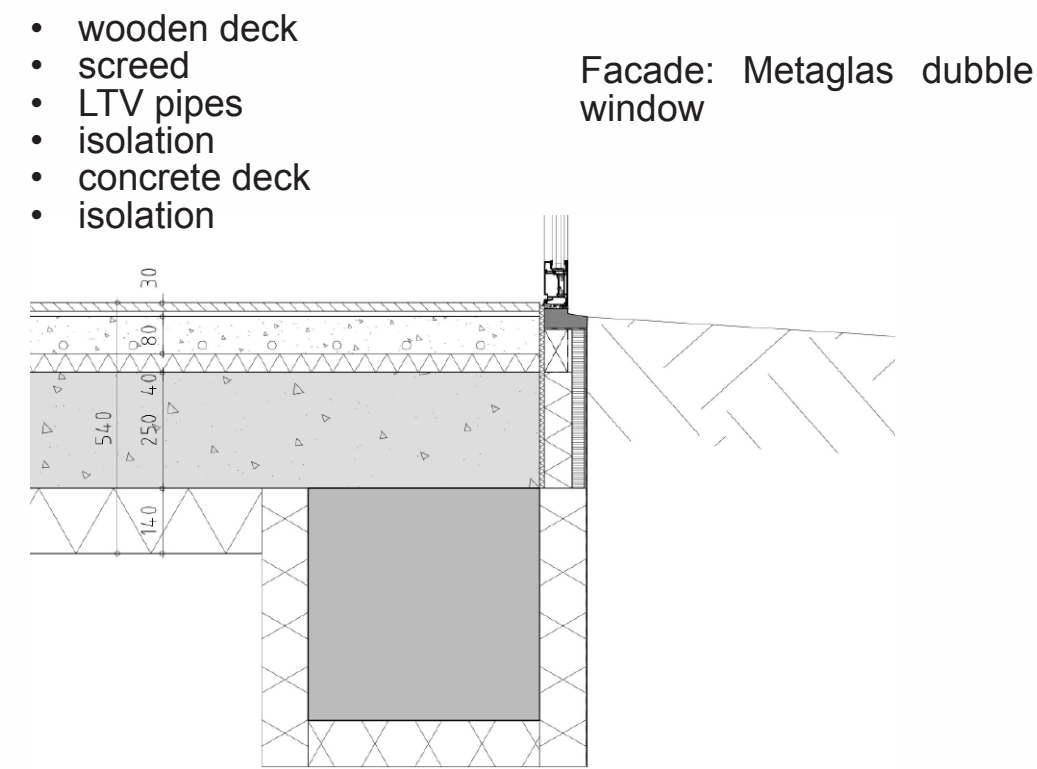
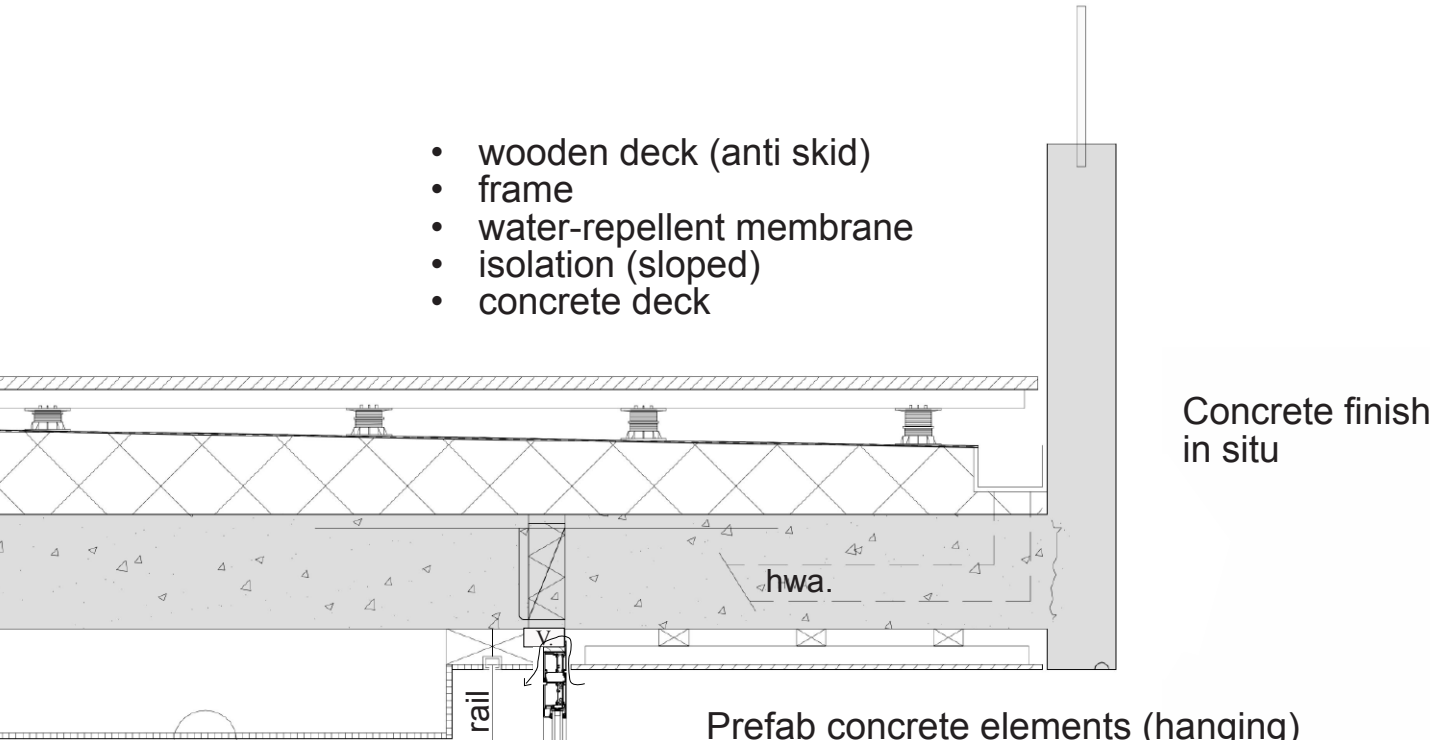
INSTALLATION CONCEPT: water and electricity

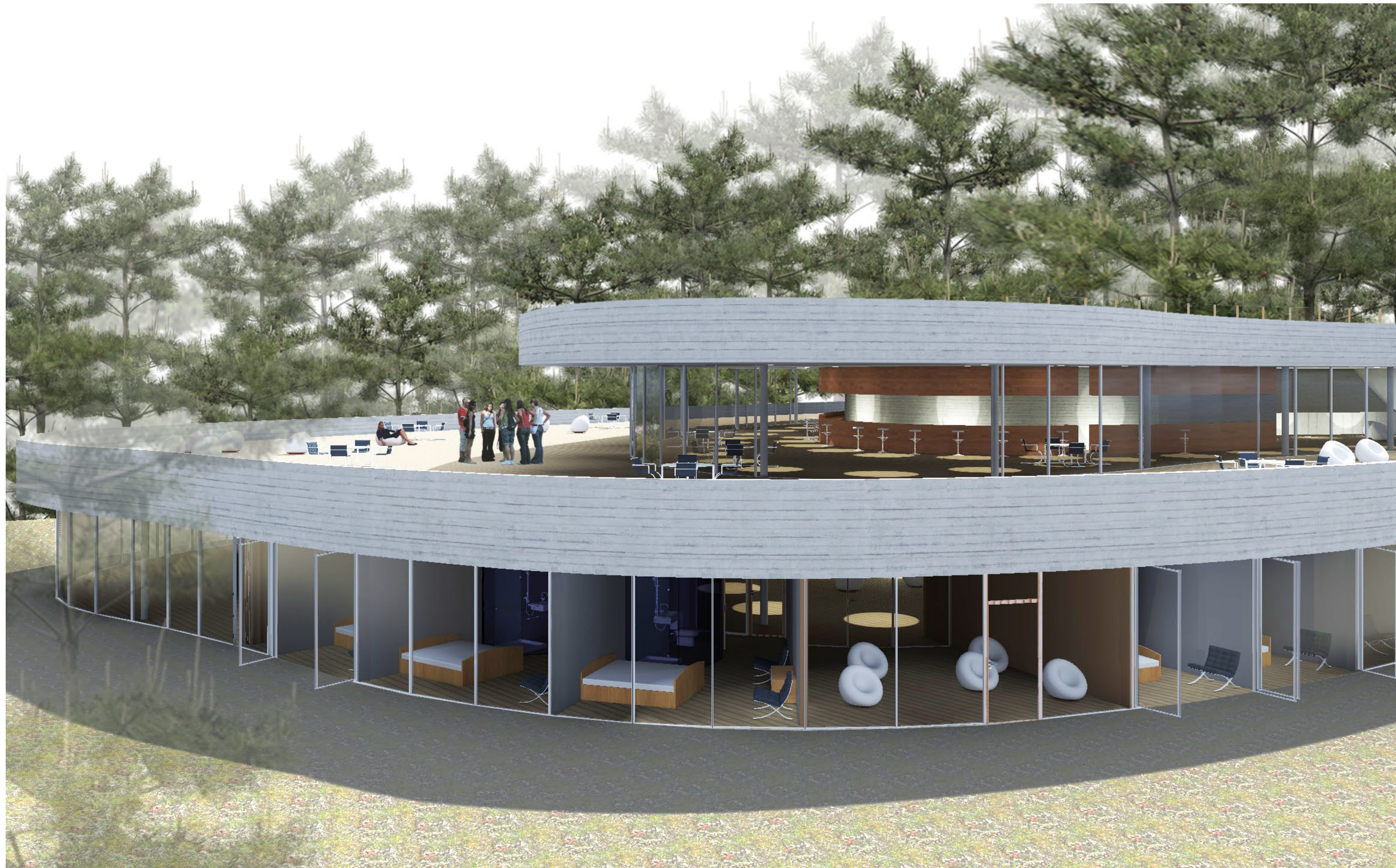
Water:
- DRINKWATER VIA NUTS: aansluiting op gemeentelijke nutsvoorzieningen t.p.v. de Genneperweg;
- GRIJSWATER-SYSTEEM: om water te besparen wordt er, naast het drinkwater circus, een tweede circus aangelegd voor grijswater. Grijswater wordt gebruikt om de wc's te spoelen. Dit circus wordt gecombineerd met 2 hwa-tanks (apparte tanks, maar met overloop) en het LTV systeem;
- AANSLUITING GEMEENTELIJKE RIOLERING: t.p.v. de Genneperweg (vanaf de technische ruimtes loopt de riolering, via de oprijlaan, over 150m naar de openbare weg (natuurlijk afschot!));
- HWA OPVANG EN INFILTRATIE: hemelwater wordt opgevangen in een tweetal tanks aan de twee uiteinden van het gebouw (naast de installatieruimte); Een deel van het hemelwater wordt natuur geïnfiltreerd in de omliggende gronden (via mantelbuizen kan het water in het lichaam van de stuwwal infiltreren).

- vegetation
- subsoil
- filter / membrane
- drainage
- water-repellent membrane
- isolation
- concrete deck
- falls ceiling + installations

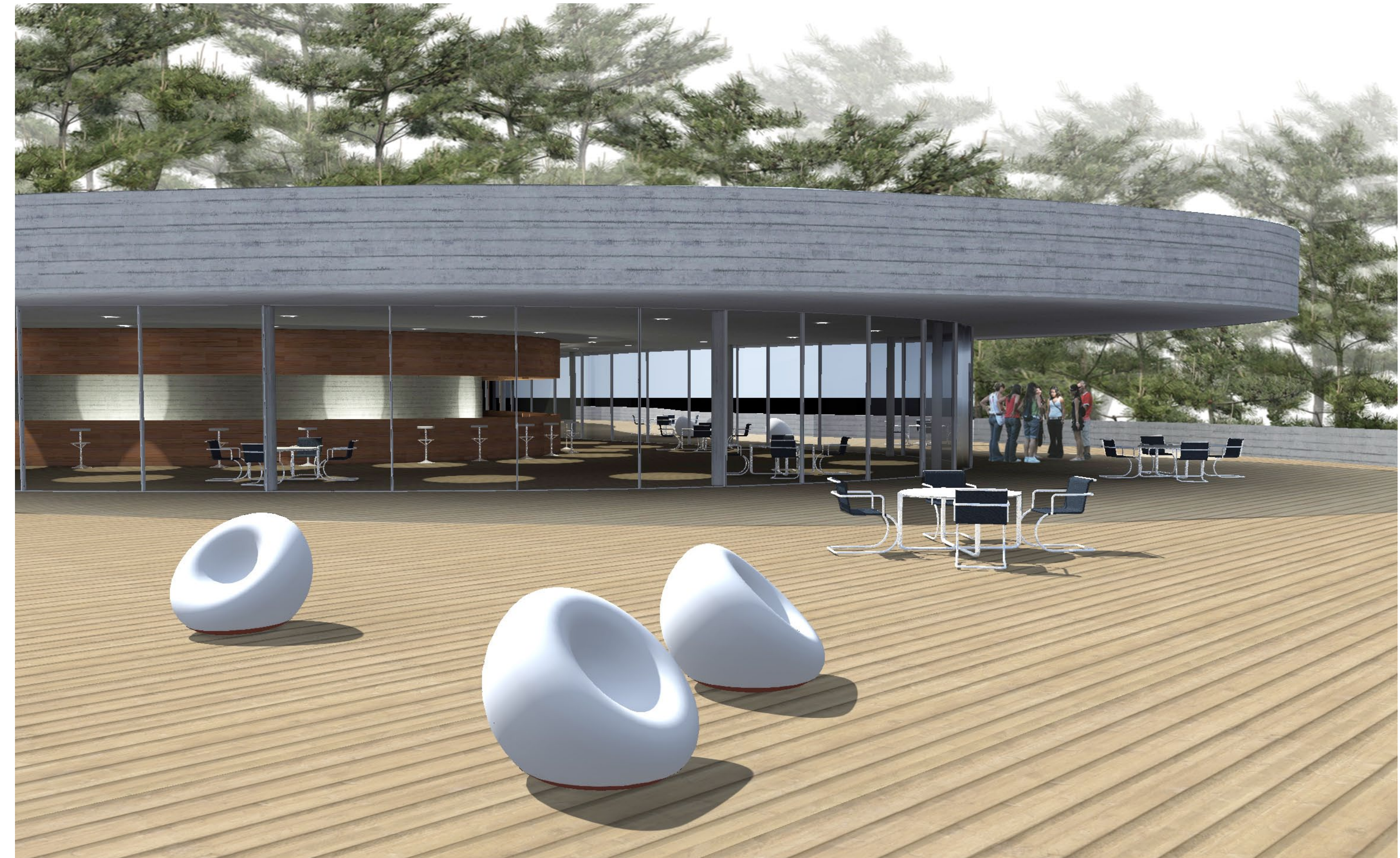


TECHNICAL DETAILS: main exterior details L3 & L2 & L1





VIEW OF THE FRONT OF THE BUILDING. (STANDING IN THE FOREST-GARDEN.)



MAIN TERRAS (NORD SIDE OF THE BUILDING) + VIEW OF THE BAR (GRAND-CAFÉ).



EAST ENTRANCE OF THE VISITORS-CENTER / GRAND-CAFÉ.



VIEW OF THE RETREAT-ROOMS (STANDING IN THE CENTRAL LOUNGE / FOYER L1).