

PORTFOLIO
Family house – FLUIDUM
VALERIA KOVÁČIKOVÁ

MAIN CONCEPT

The proposed building is intended to serve as a comfortable home for a family of four.

The design philosophy is based on the concept of spatial fluidity, natural movement, and subtle separation of functional zones. The proposal seeks to incorporate the shape of the surrounding environment into the floor plan and eliminate sharp boundaries between the exterior and interior. Fluidity is also reflected in the shaping of the architectural mass and the orientation of movement in relation to the cardinal directions. The space is conceived as a dynamic organism in which individual functions naturally connect to one another, creating a high level of user comfort.

An important principle of the design is the creation of a harmonious relationship between the family house and its surroundings. The house is oriented towards a semi-private central exterior space, which encourages contact with nature and creates a calm living environment.

The 1,705 m² plot allows for the horizontal development of the family house. The urban design of the building respects the natural character of the site and its orientation in relation to the surrounding environment. The house, with its L-shaped floor plan, is designed as a single-storey building of an organic character, whose curved form naturally shapes the inner courtyard space while also ensuring privacy. Southern and western orientation provides pleasant daylight throughout the day.

The architectural solution is based on soft mass modelling, dominated by fluid roof and façade lines. The building opens to the exterior through large glazed surfaces, supporting both visual and functional integration of the interior with its surroundings. The façade articulation, using vertical panels, creates rhythm, filters light, and provides shading while simultaneously emphasizing the building's dynamic character.

The layout of the building, with a usable floor area of 261.7 m², is designed with an emphasis on fluid movement, functional zoning, and the natural connection between interior and exterior spaces.

The building is divided into three functional zones:

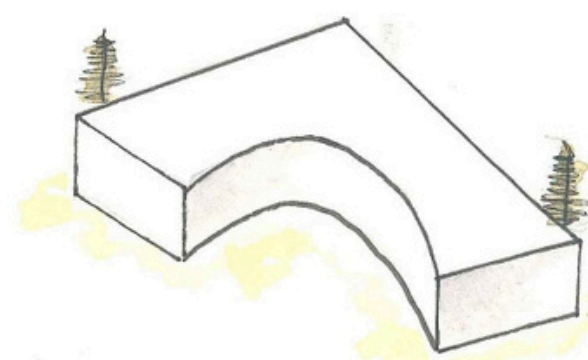
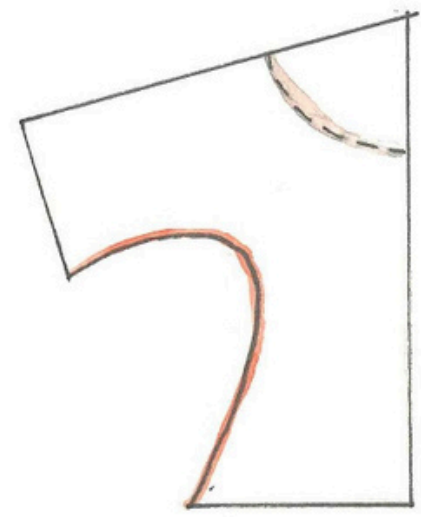
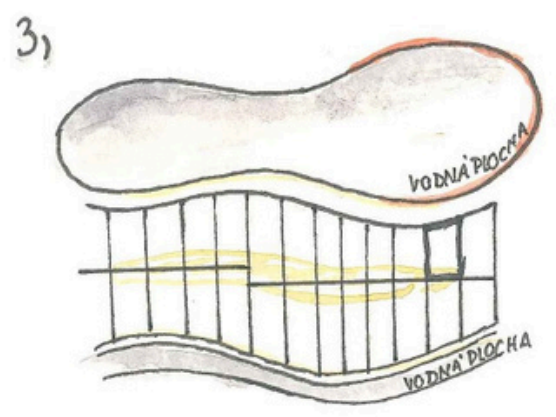
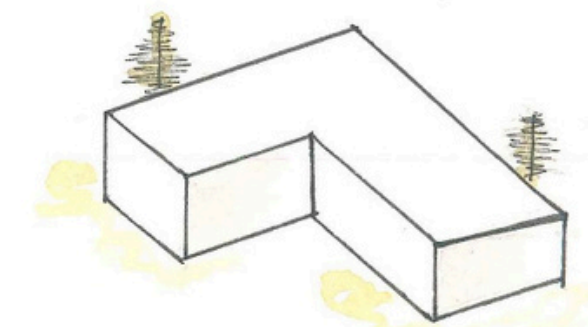
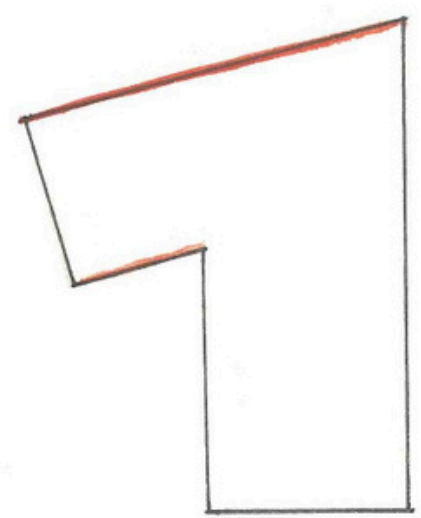
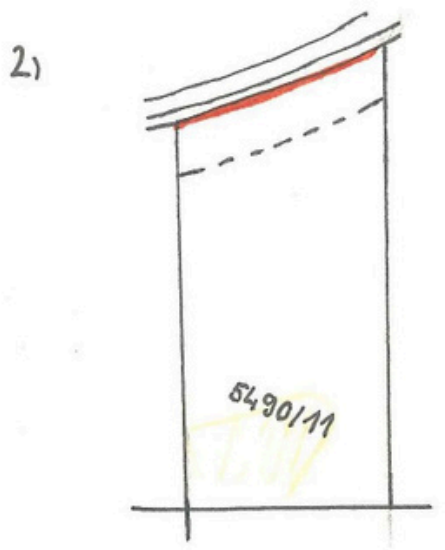
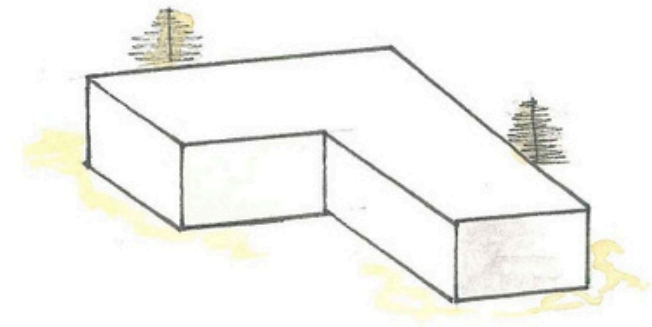
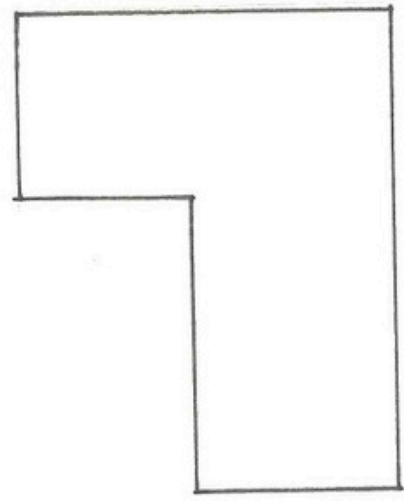
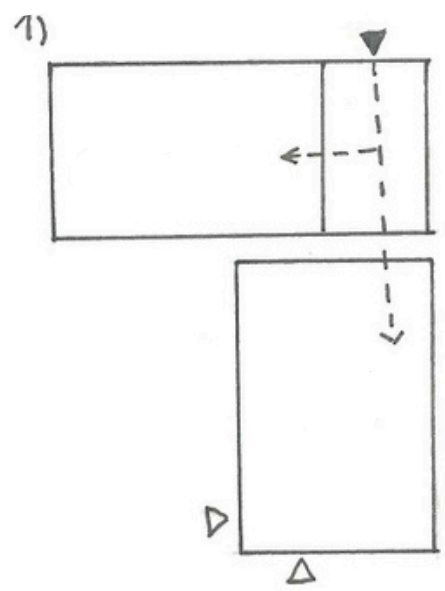
The day zone, oriented towards the south and southwest, includes the kitchen, dining area, and living room, with direct access to the swimming pool and covered terrace.

The night zone, oriented towards the southeast, includes the parents' bedroom with an en-suite bathroom and walk-in wardrobe, two children's bedrooms, an additional bathroom, and a study.

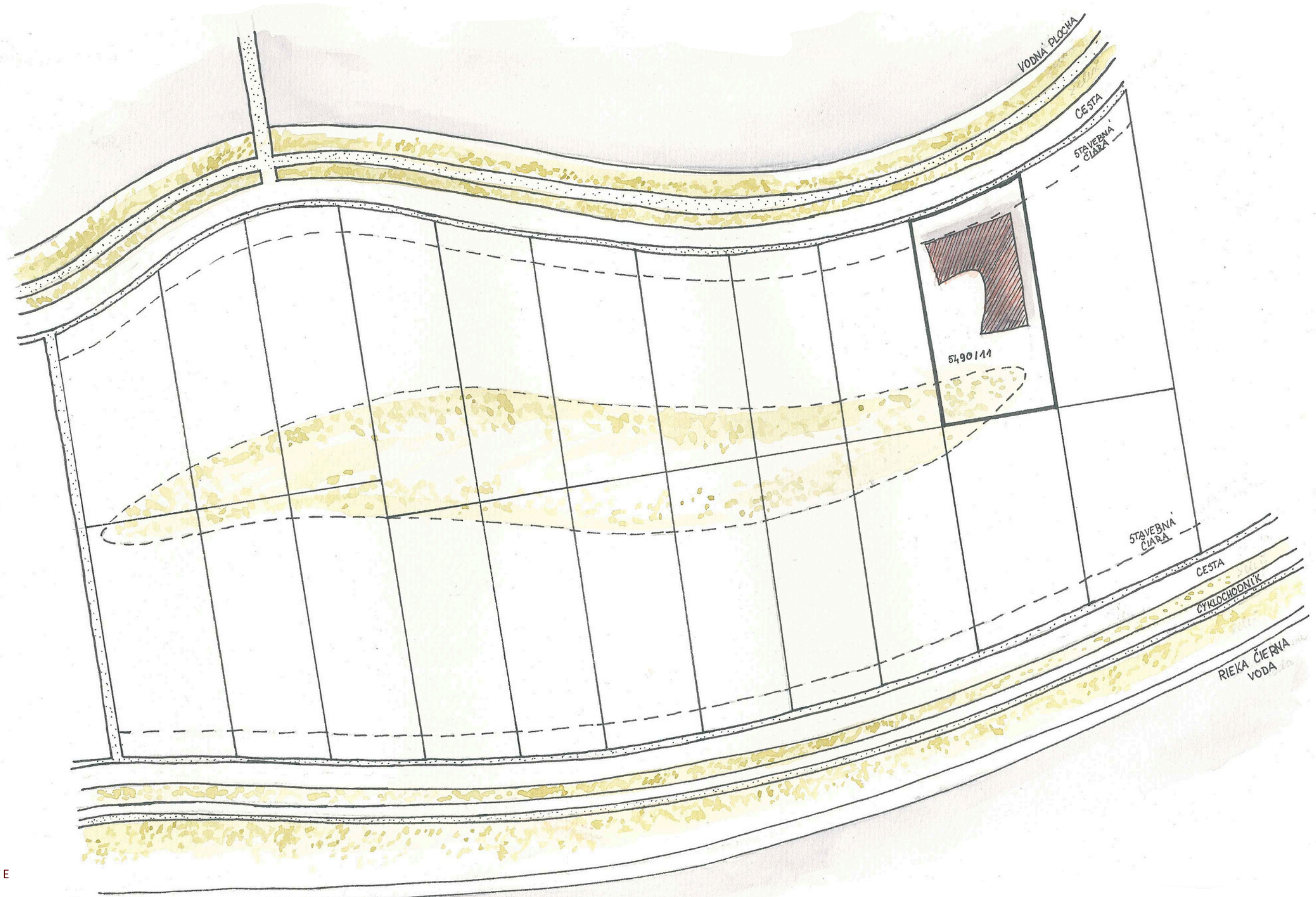
The technical and utility zone includes a utility room with a laundry area and a storage room.

Access to the plot is provided from the existing road. Static transport is resolved through a carport for vehicles.


The building is designed using a prefabricated structural system with sandwich panels and reinforced concrete columns. The façade is complemented by wooden sliding panels. Window openings are designed using aluminium window systems. The roof structure is envisaged as reinforced concrete.



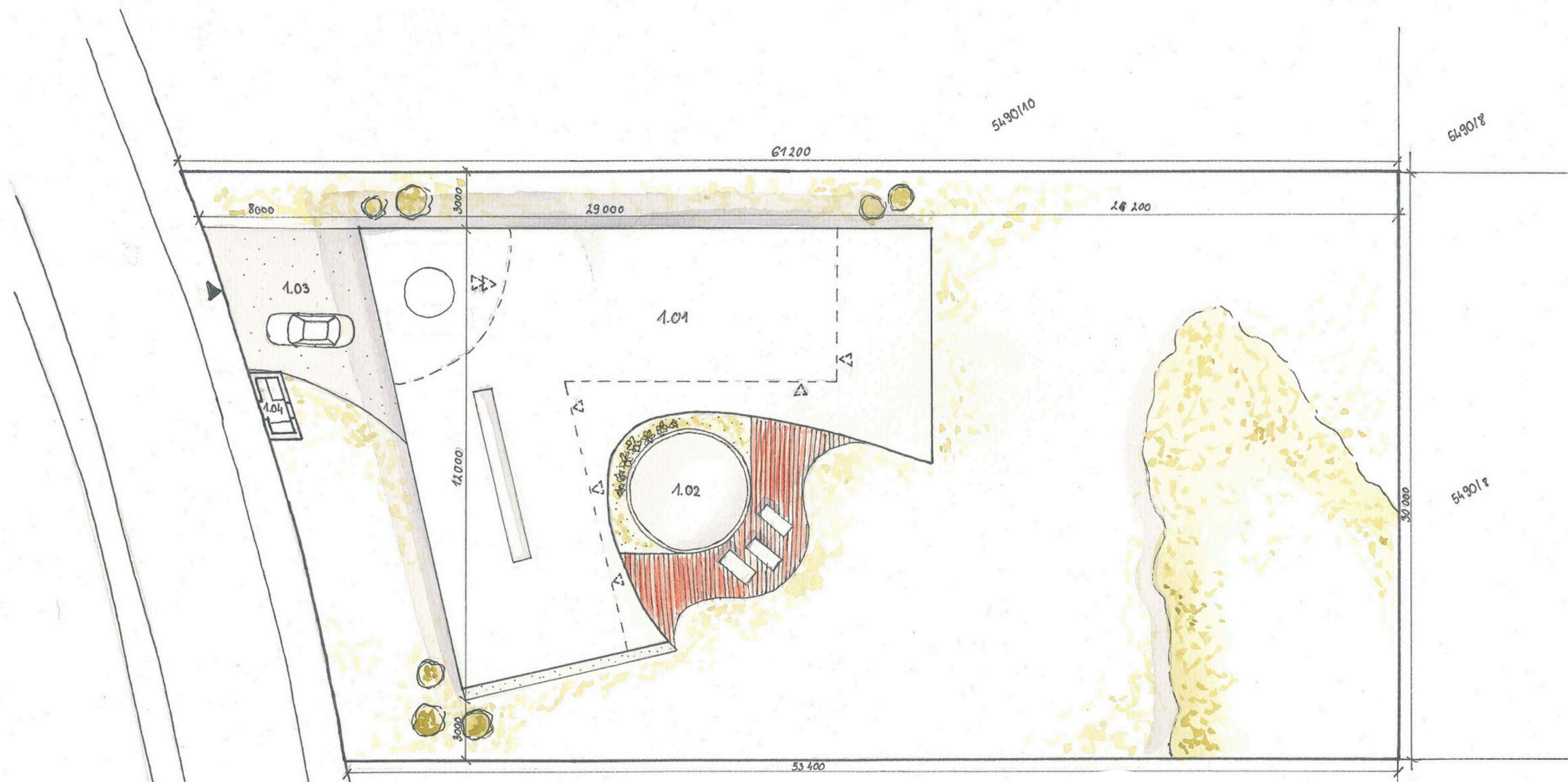
MAIN CONCEPT



-  PROJECT SITE
-  PROPOSED BUILDING
-  SHORT VEGETATION
-  TALL VEGETATION
-  SIDEWALK

M 1:1000 

SITE PLAN



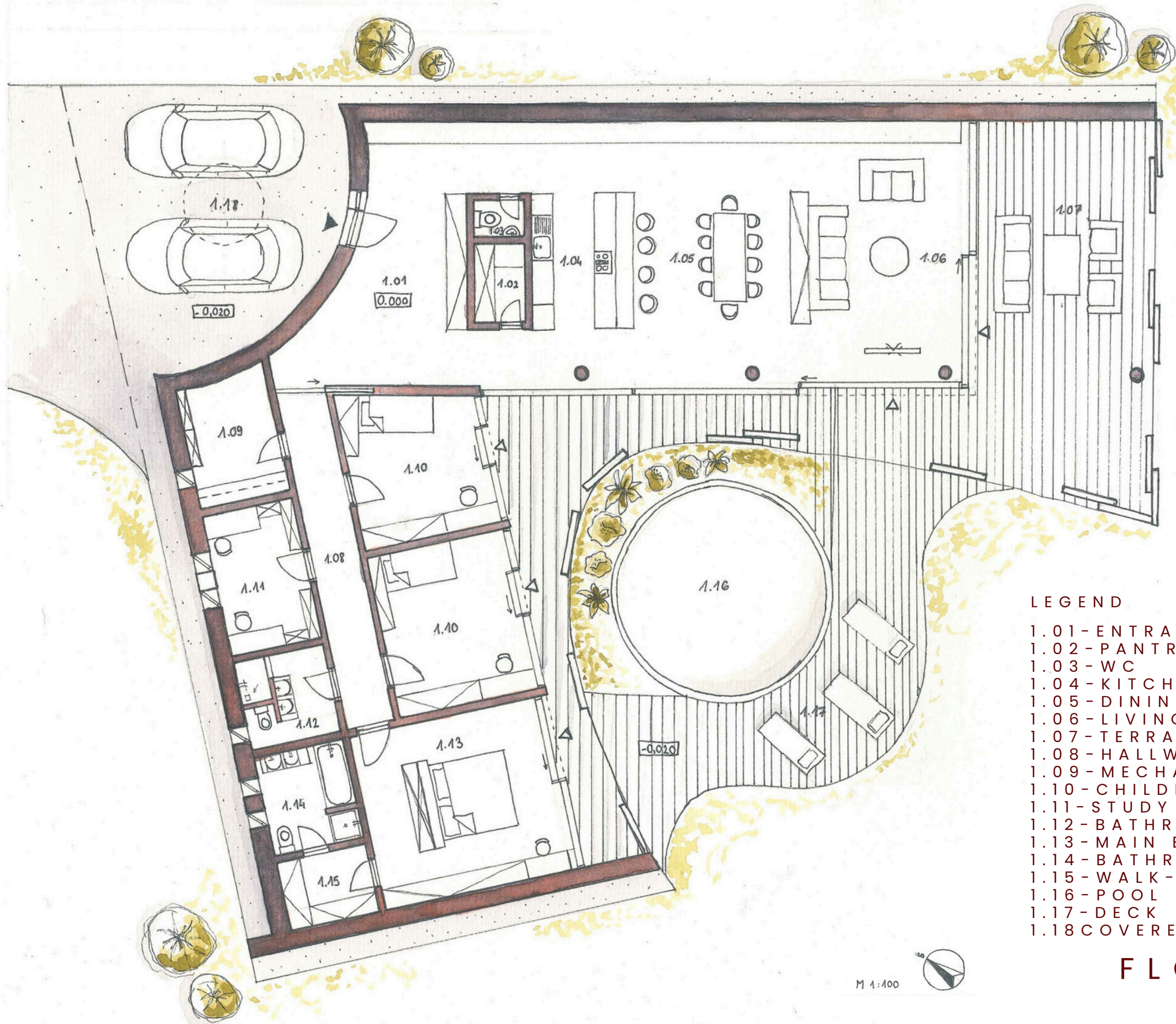
1.01 - PROPOSED BUILDING
 1.02 - POOL
 1.03 - DRIVEWAY

- ▲ MAIN SITE ENTRANCE
- △ MAIN ENTRANCE
- △ SECONDARY ENTRANCE
- TALL VEGETATION
- PAVED PARKING AREA
- PAVED AREA
- PROJECT SITE

M. 1:200



SITE PLAN



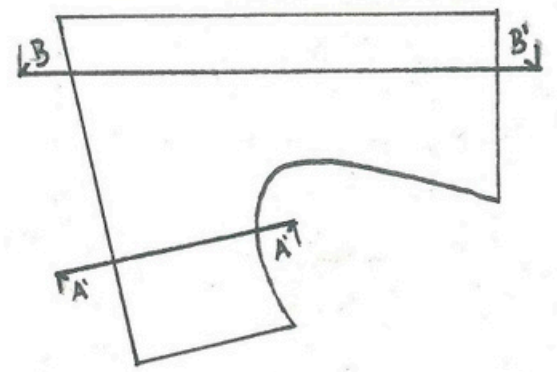
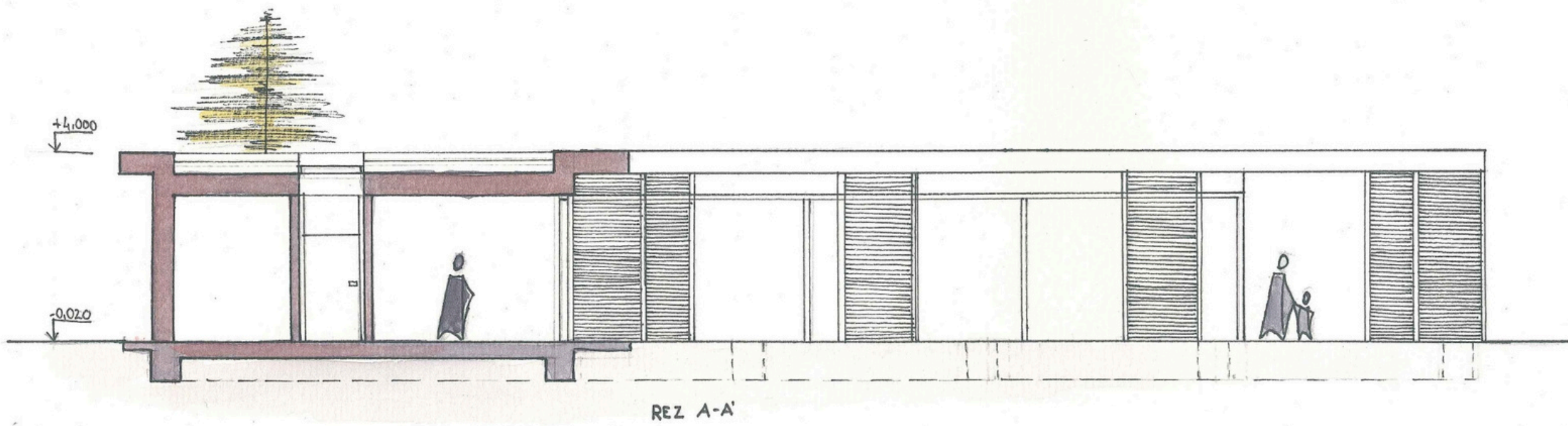
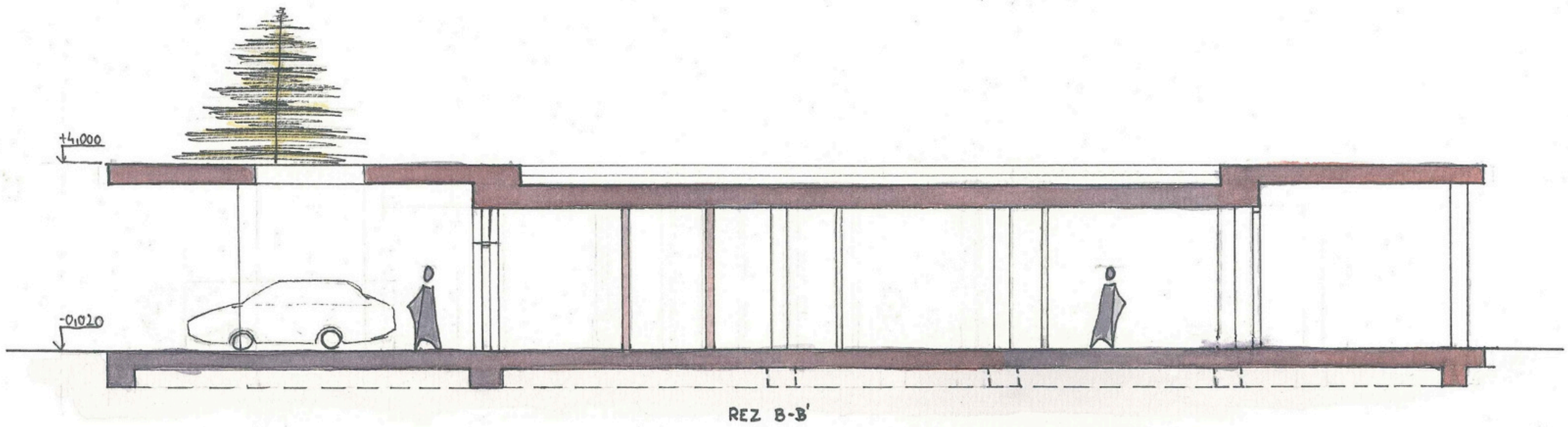
LEGEND

- 1.01-ENTRANCE HALL
- 1.02-PANTRY
- 1.03-WC
- 1.04-KITCHEN
- 1.05-DINING ROOM
- 1.06-LIVINGROOM
- 1.07-TERRACE
- 1.08-HALLWAY
- 1.09-MECHANICAL ROOM
- 1.10-CHILDREN'S ROOM
- 1.11-STUDY
- 1.12-BATHROOM
- 1.13-MAIN BEDROOM
- 1.14-BATHROOM
- 1.15-WALK-IN CLOSET
- 1.16-POOL
- 1.17-DECK
- 1.18COVERED ENTRANCE PORCH

FLOORPLAN

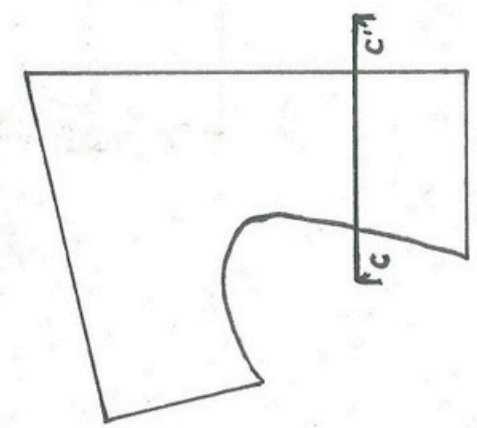
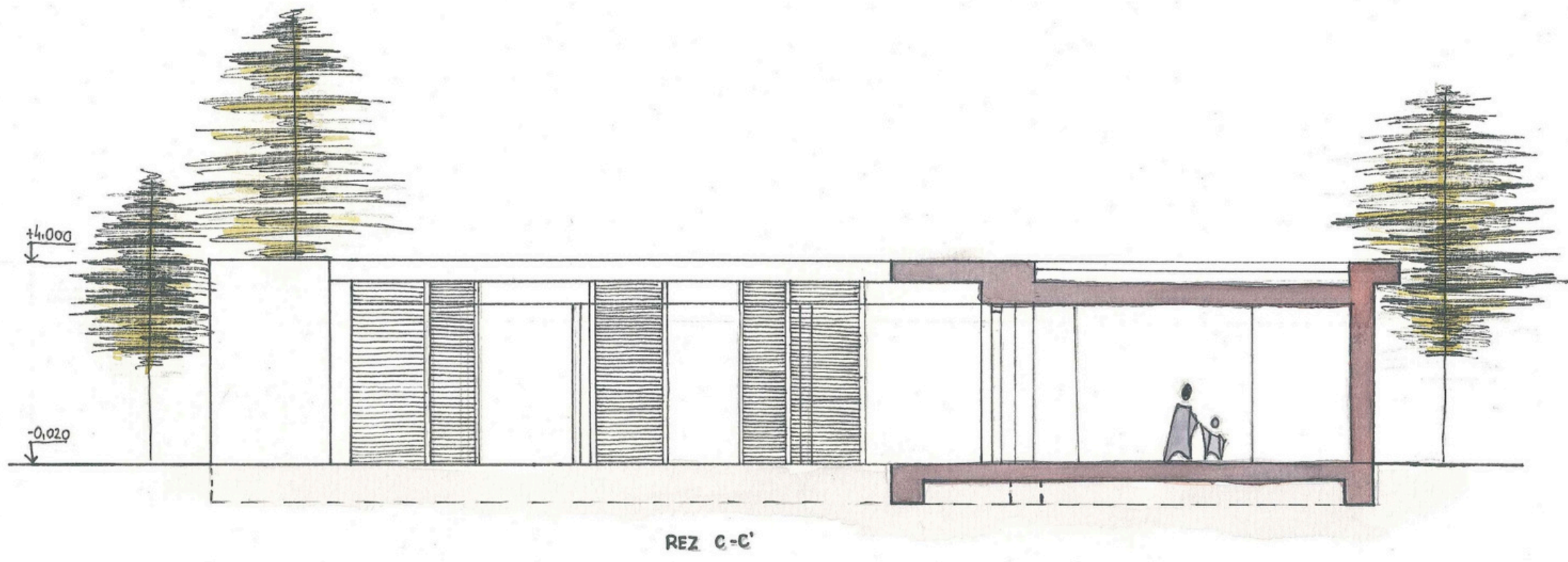
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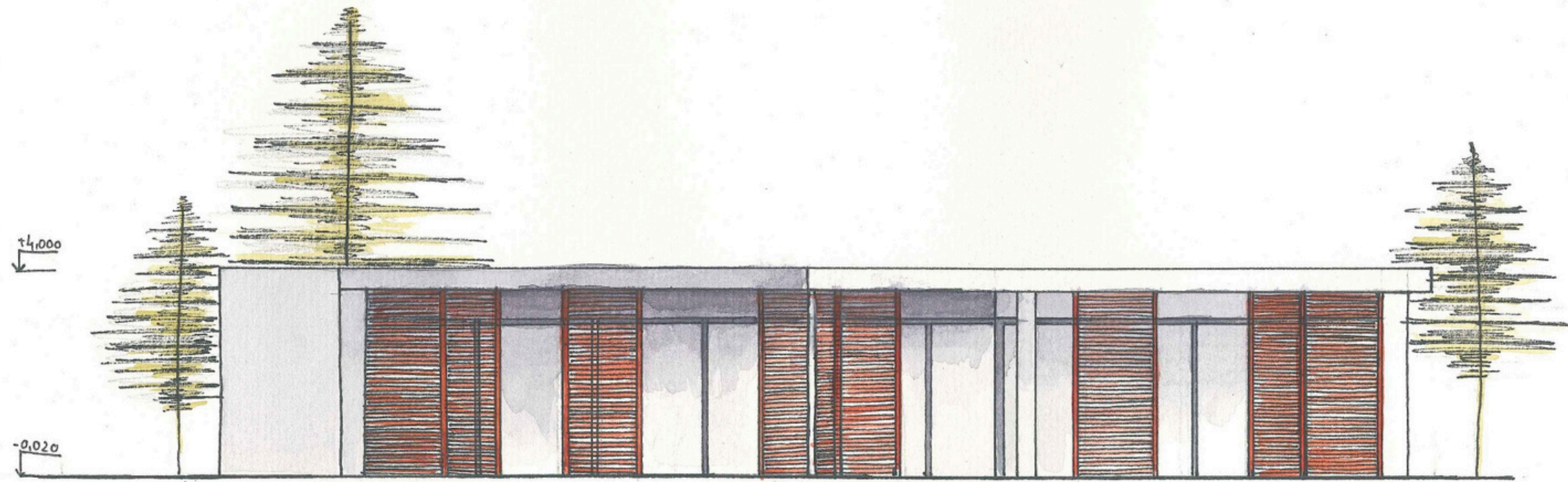
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SECTIONS

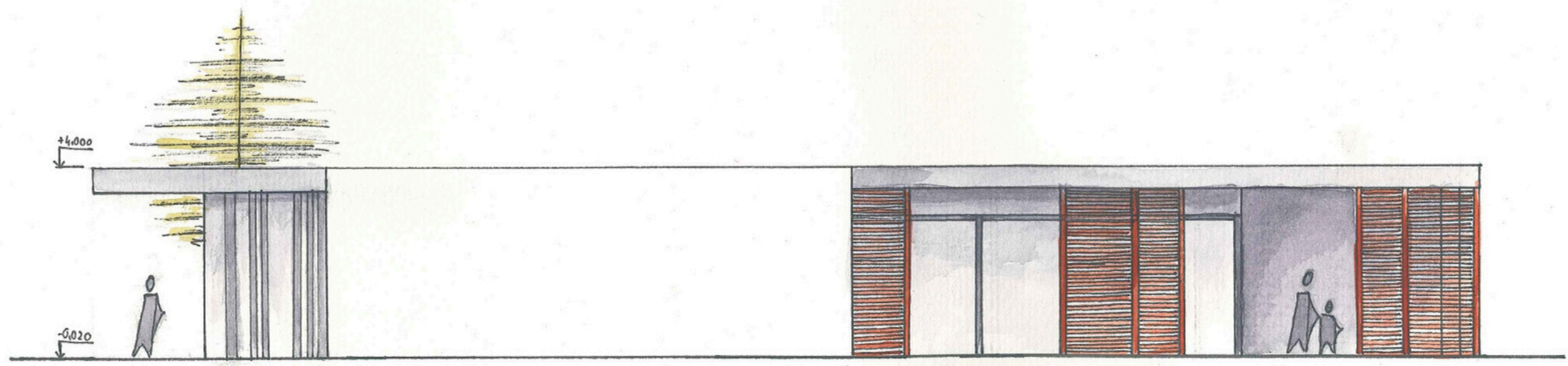


M: 1:100

SECTIONS

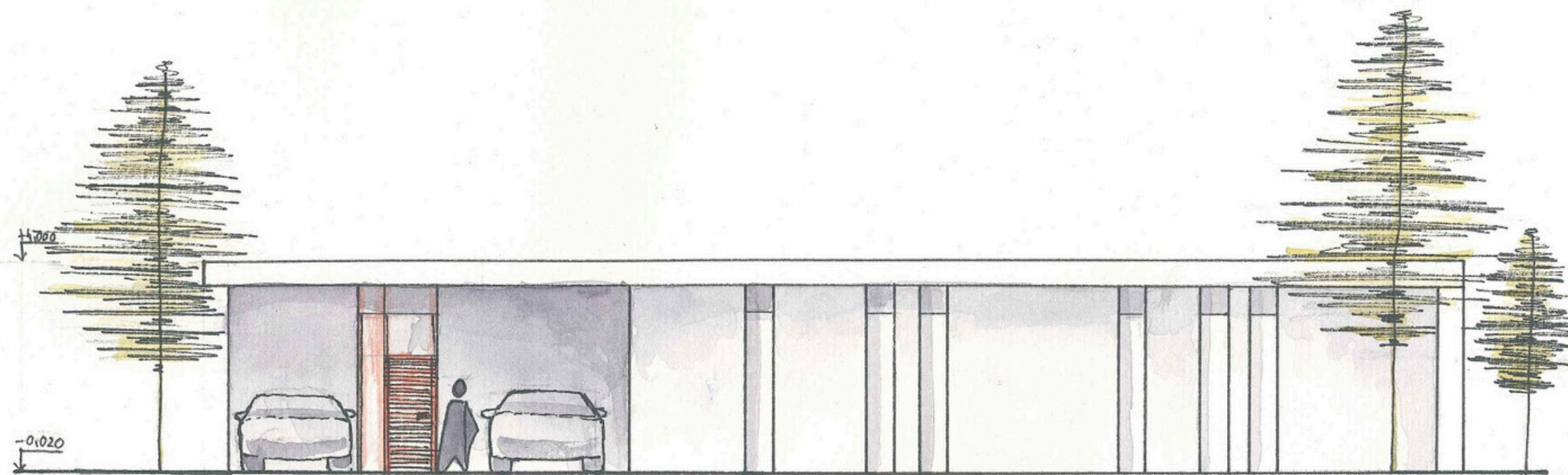


POHLAD - JUHOVÝCHODNÝ



POHLAD - JUHOZÁPADNÝ

ELEVATIONS

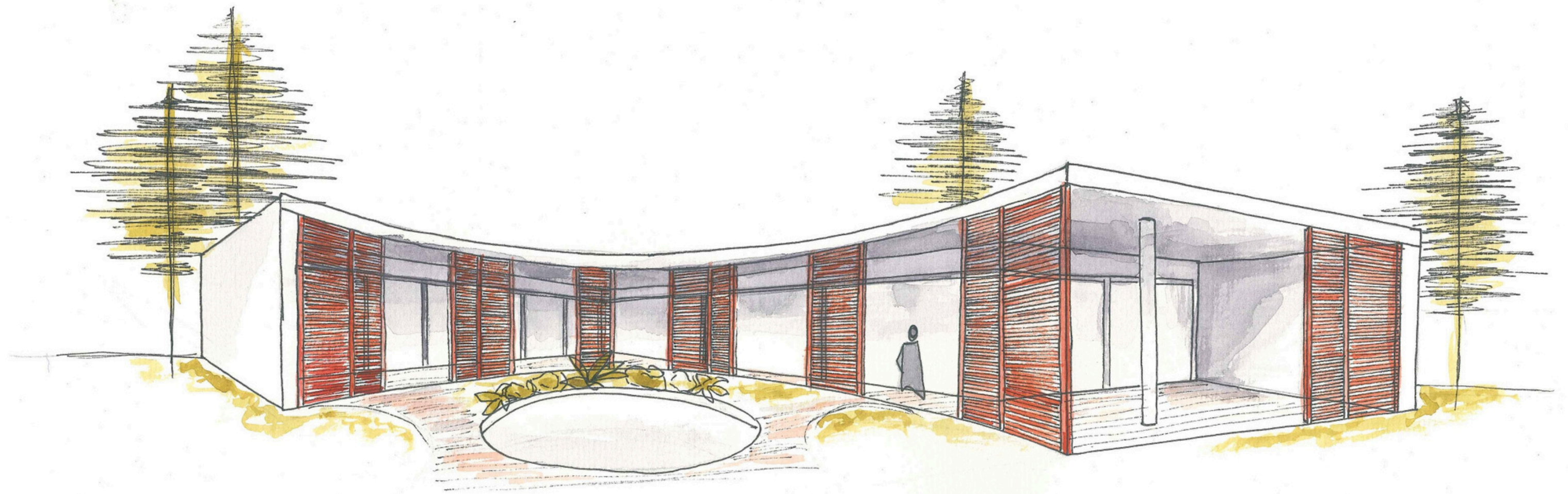


POHLAD - SEVEROZÁPADNÝ

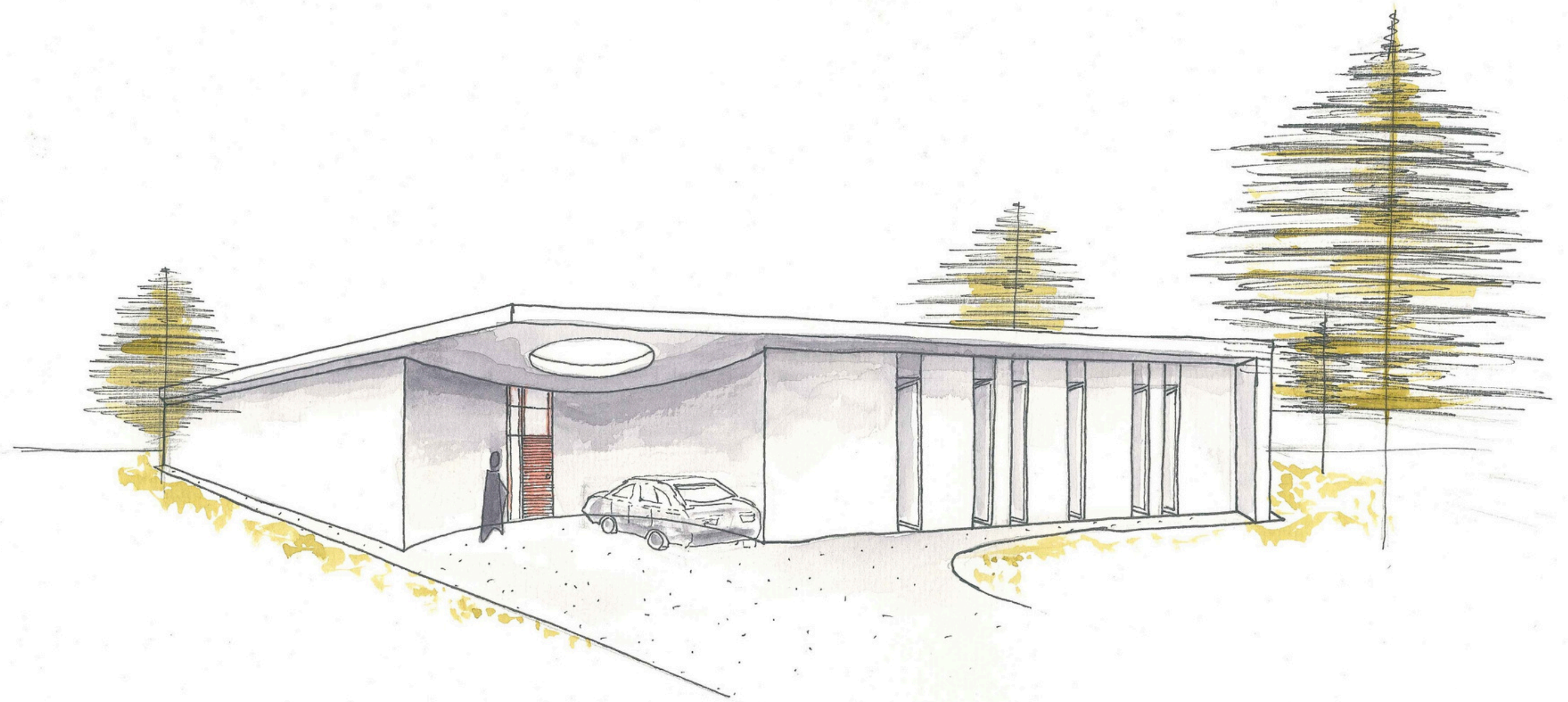


POHLAD - SEVEROVÝCHODNÝ

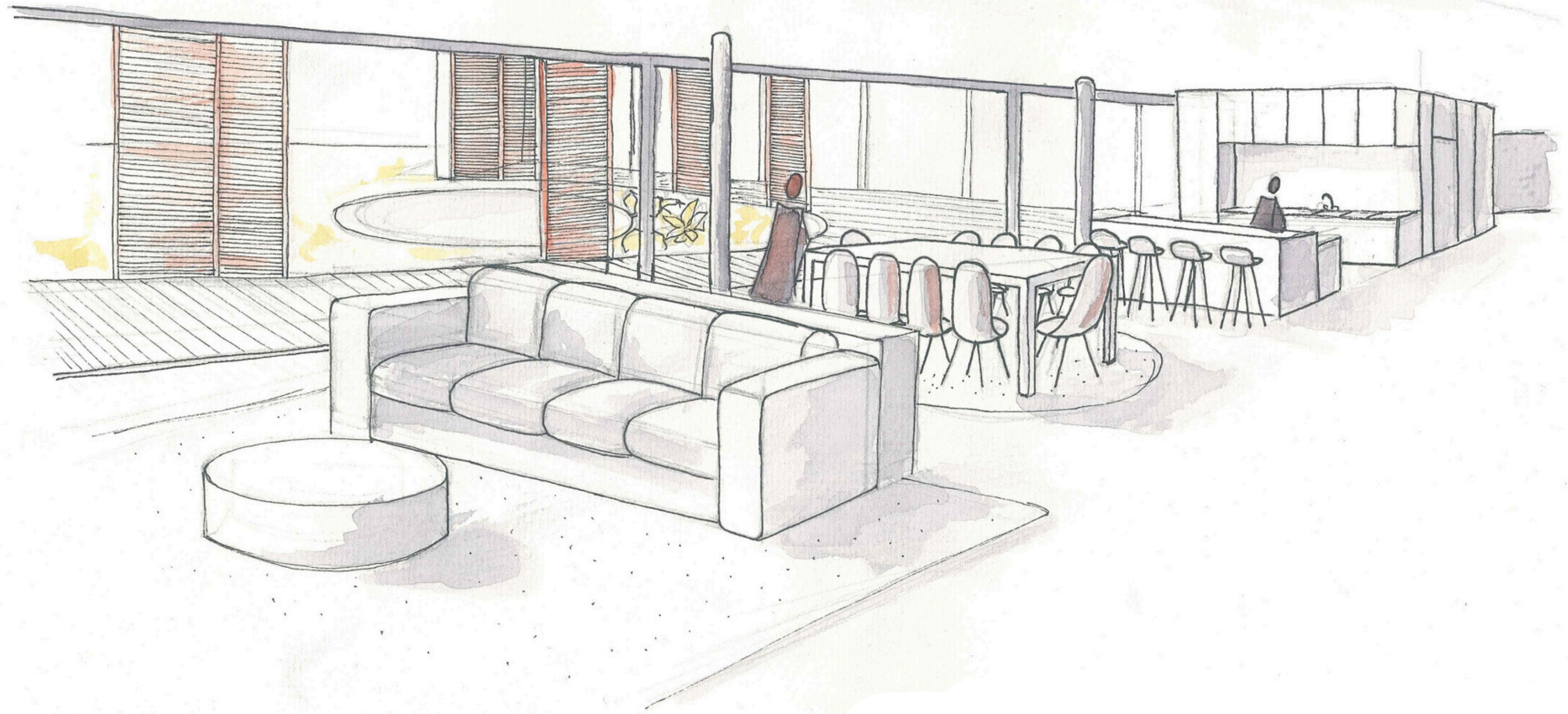
ELEVATIONS



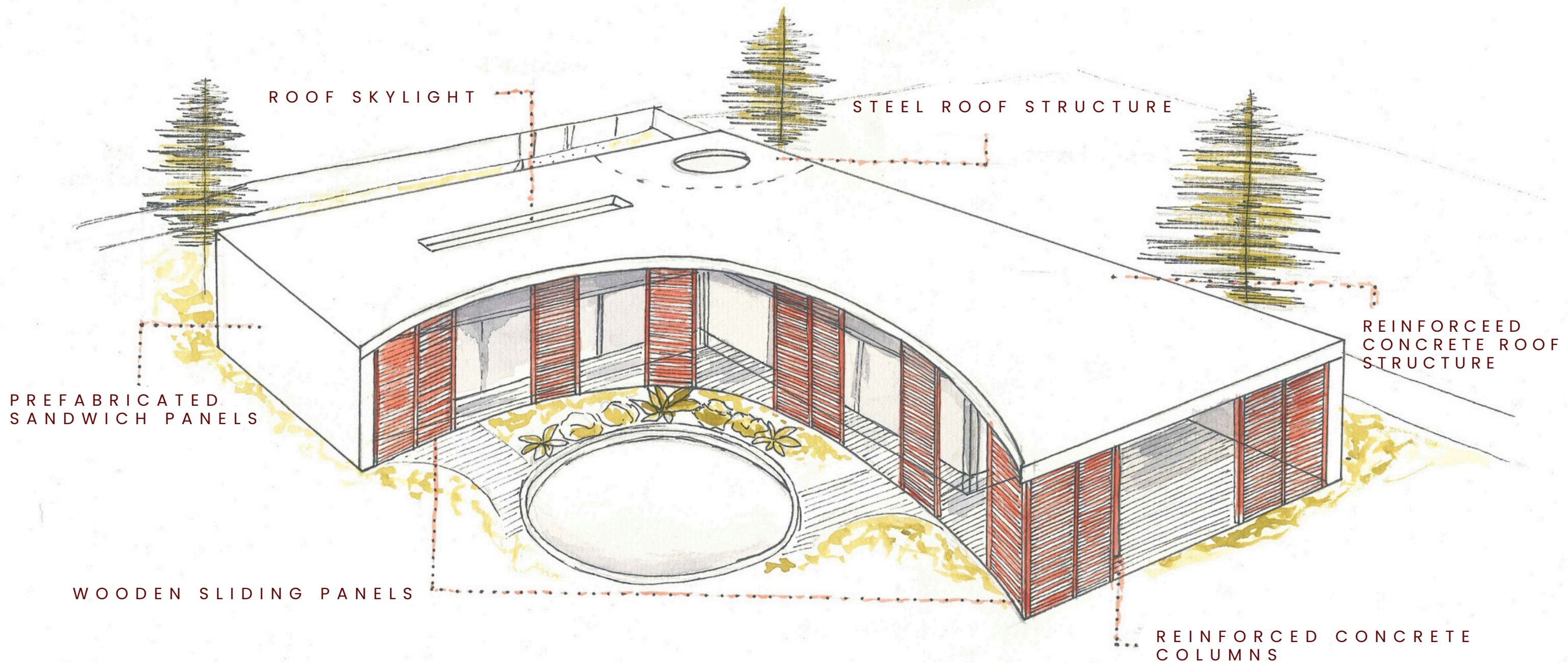
MAIN PERSPECTIVE



PERSPECTIVE
- exterior



PERSPECTIVE
- interior





V I S U A L I Z A T I O N

VISUALIZATION





V I S U A L I Z A T I O N

VISUALIZATION

