

Kinderdijk

FROM START TO FUTURE

Drawing set



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Kinderdijk from Start to Future

Architecture graduation project
MSc Architecture, Urbanism & Building Sciences
Department Architecture & Heritage
Studio Revitalising Maritime Heritage

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Chapter 1

Masterplan

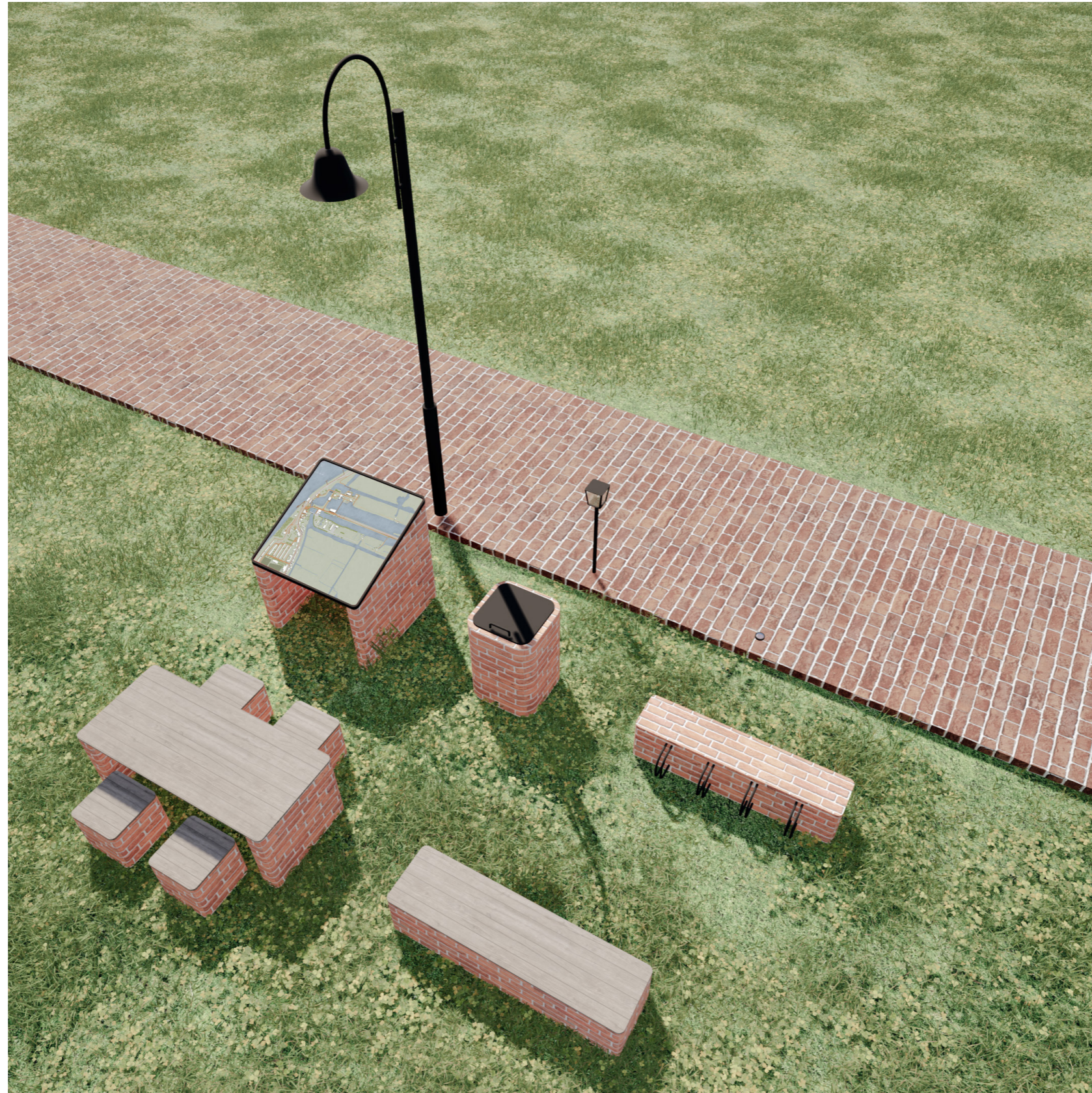


Figure 1.1 - Street furniture design: brick, wood, and steel with straight lines and curved corners



0 m 25 m 50 m 75 m 100 m





Functional

- 1 Group entrance and souvenir shop
- 2 Exhibition: Nature
- 3 Exhibition: Introductory movie
- 4 Exhibition: Wisboom steam pumping station
- 5 Exhibition: Workers in Kinderdijk
- 6 Kok pumping station
- 7 Bike rental
- 8 Café
- 9 Exhibition: Waterboards in Kinderdijk
- 10 Sluices
- 11 Exhibition: Current and future water management
- 12 Individual entrance and souvenir shop
- 13 Restaurant
- 14 Bakery shop and meeting rooms
- 15 Bed & Breakfast
- 16 SWEK offices and workshop
- 17 House instead of bakery
- 18 Apartments instead of restaurant

Greenery

- 1 Elshout forest
- 2 Greening quay
- 3 Green instead of asphalt
- 4 Green instead of asphalt
- 5 Green instead of walking path

Routing

- 1 New bridge
- 2 Shuttle bus stop
- 3 Educational entrance square
- 4 Refuge island
- 5 New street profile with wider sidewalks
- 6 Parking lots for restaurant, bakery, B&B, and winter visitors
- 7 New bridge
- 8 Relocating terrace to next to café
- 9 Extending footpath

Figure 1.2 - Masterplan 1:1000



Figure 1.3 - Current ticket office and parking lot

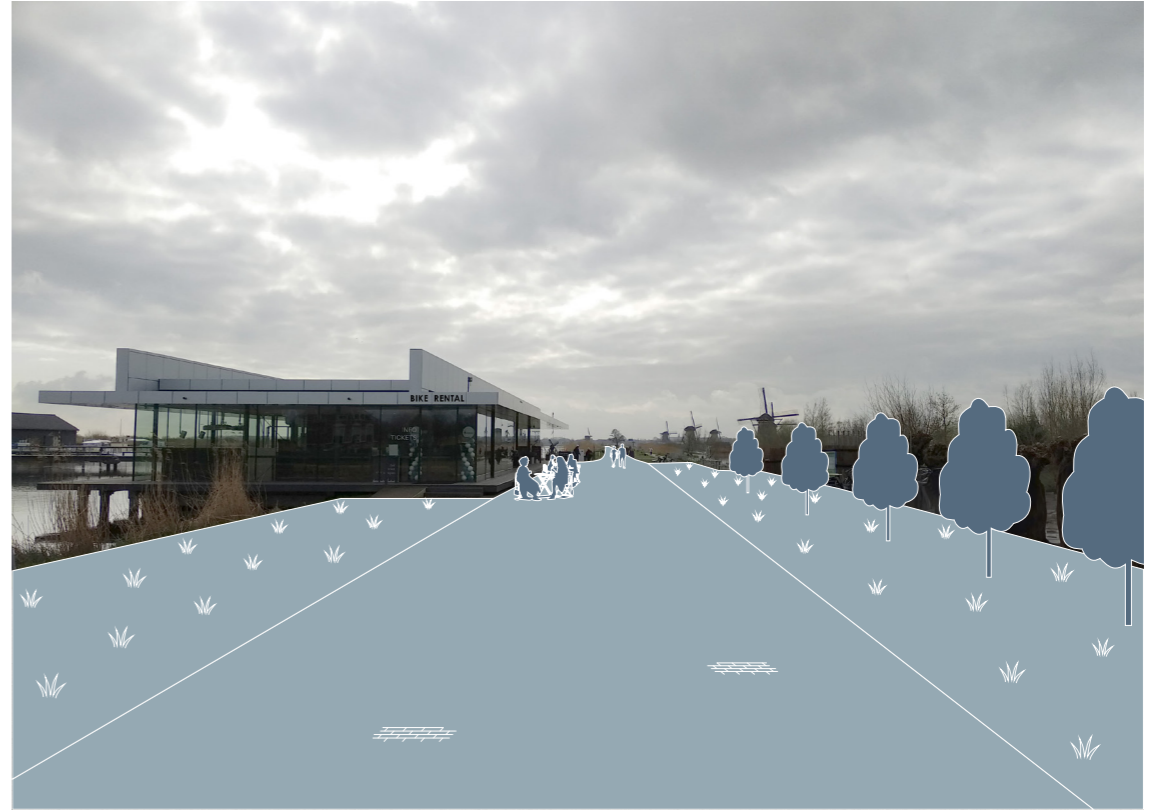


Figure 1.4 - Future bike rental; grass reintroduced; café terrace relocated



Figure 1.5 - Current Kok pumping station



Figure 1.6 - Future new bridge



Figure 1.7 - Current quay

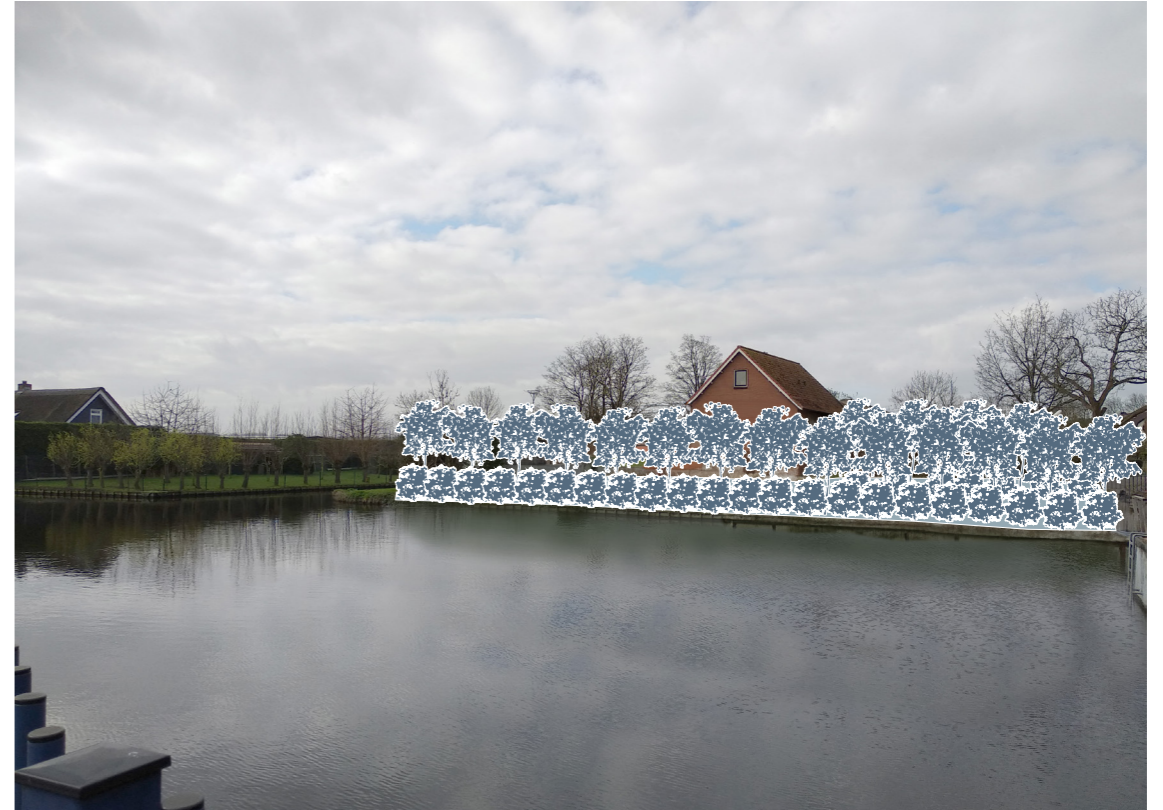


Figure 1.8 - Future greened quay



Figure 1.9 - Current end of footpath



Figure 1.10 - Future extended footpath



Figure 1.11 - Masterplan 1:500 current situation



Figure 1.12 - Masterplan 1:500 future situation

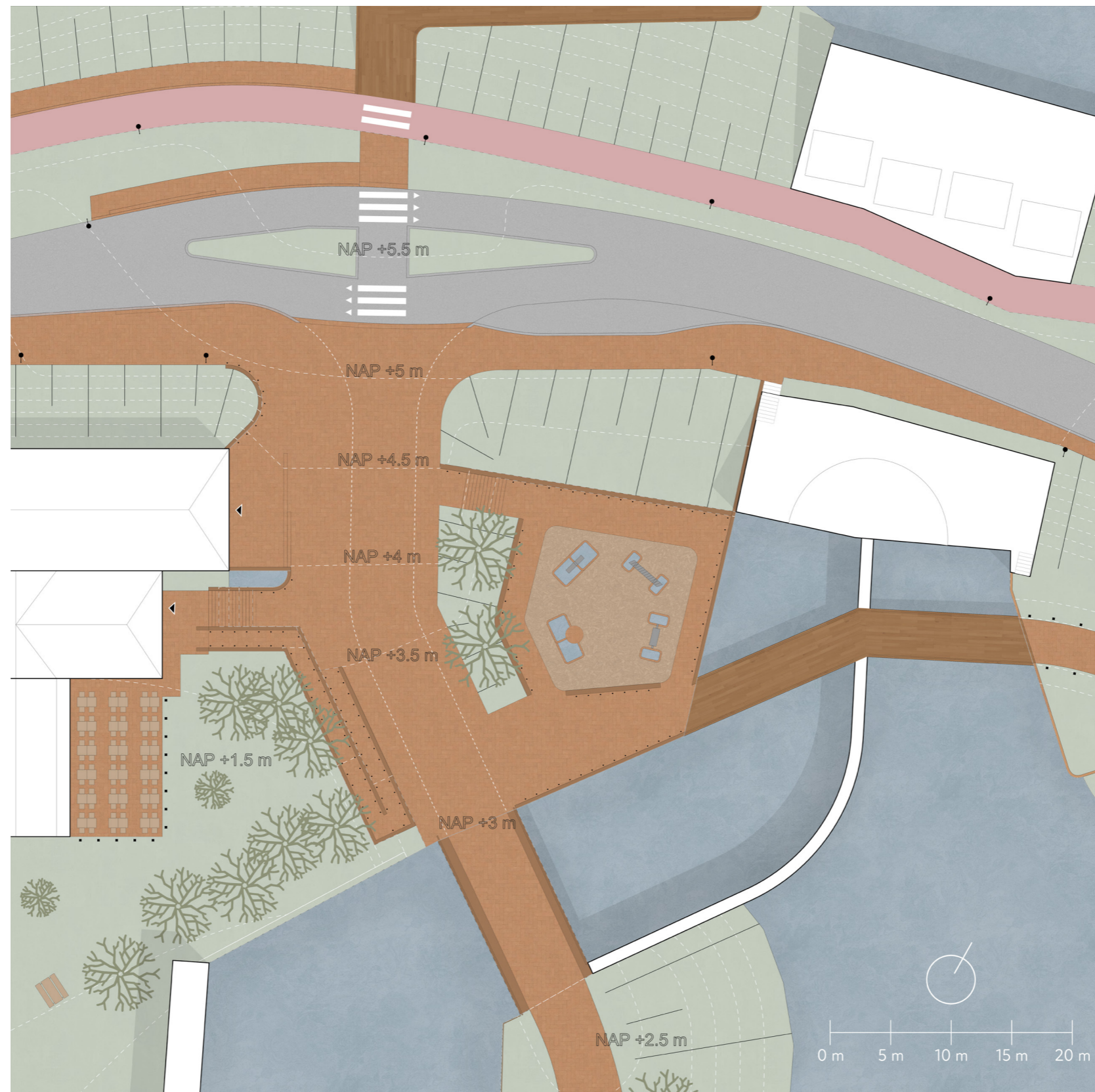


Figure 1.13 - Masterplan 1:100 Entrance square with educational playground

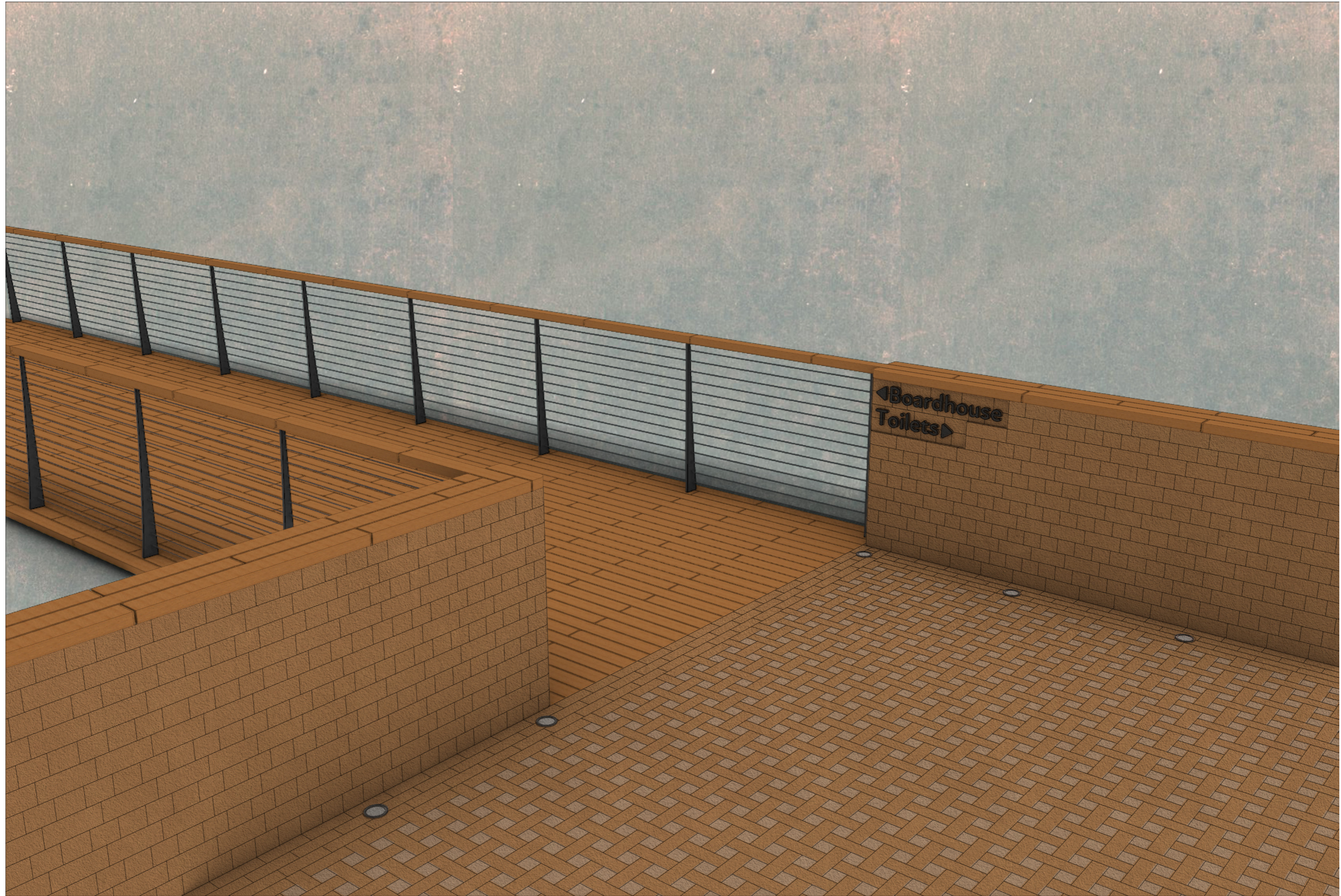


Figure 1.14 - Connection land to water with steel, wood, and brick (windmill pattern)

Chapter 2

Gemeenlandshuis Nederwaard

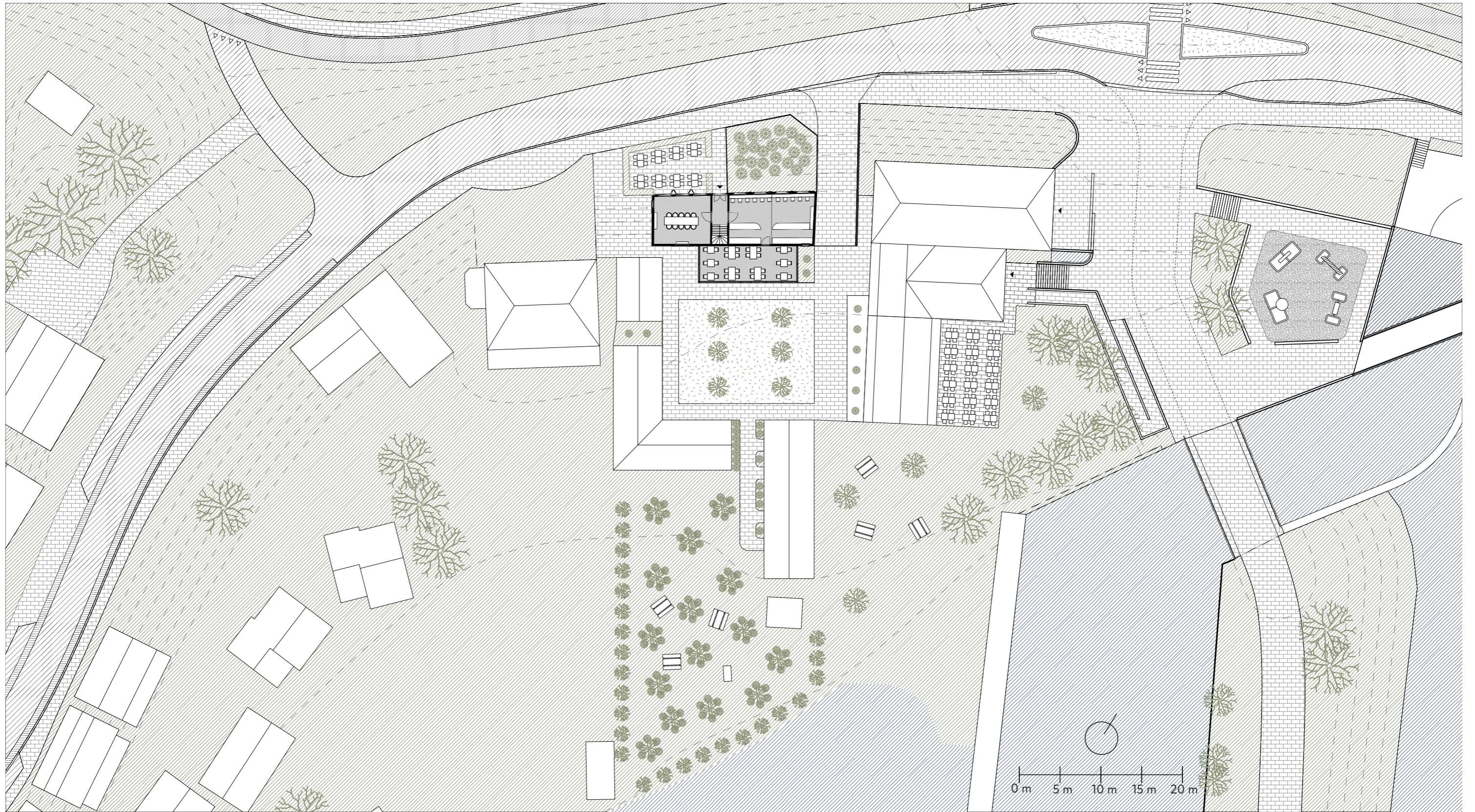


Figure 2.1 - Gemeenlandshuis in context 1:500

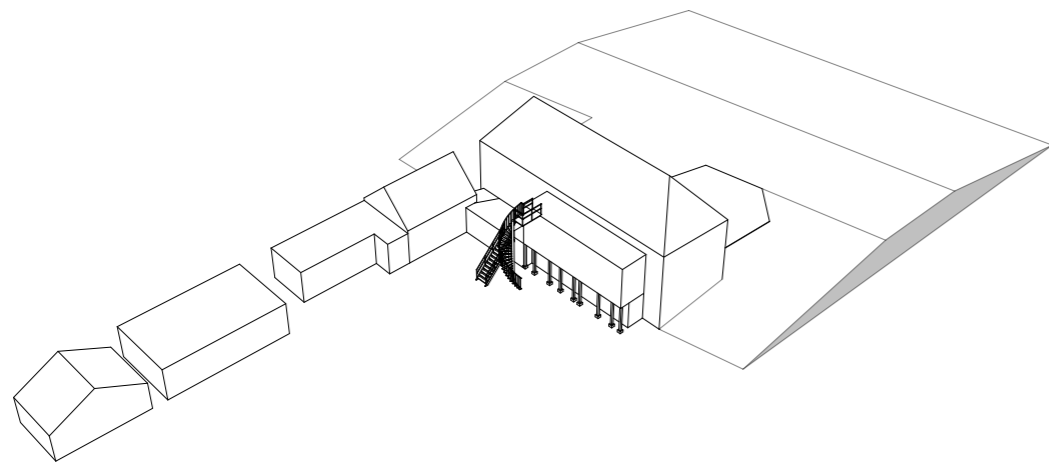


Figure 2.2 - Current situation

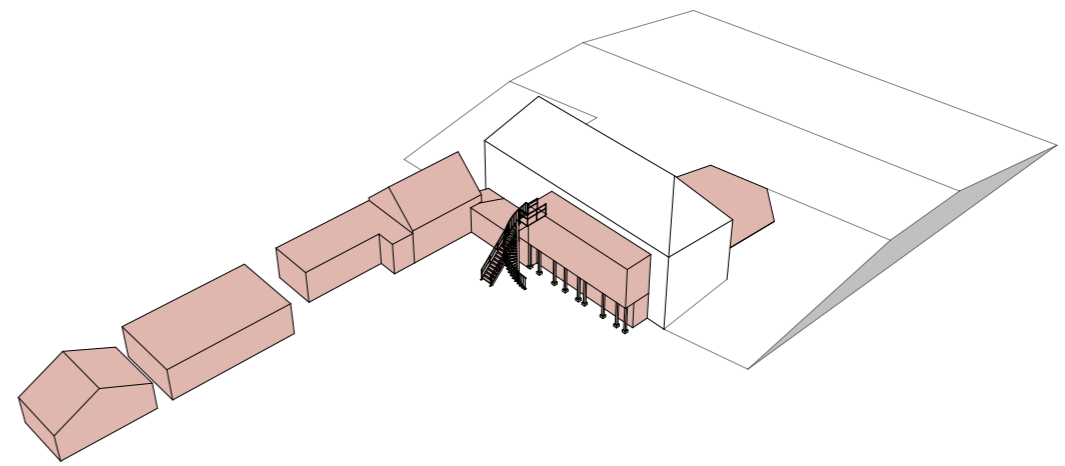


Figure 2.3 - Remove extensions, other buildings, and terrace

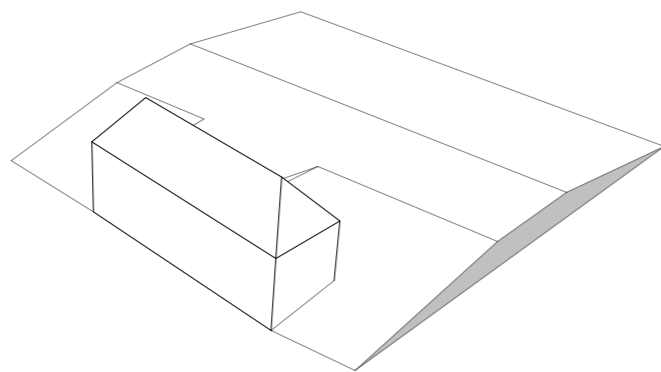


Figure 2.4 - Gemeenlandshuis main volume remains

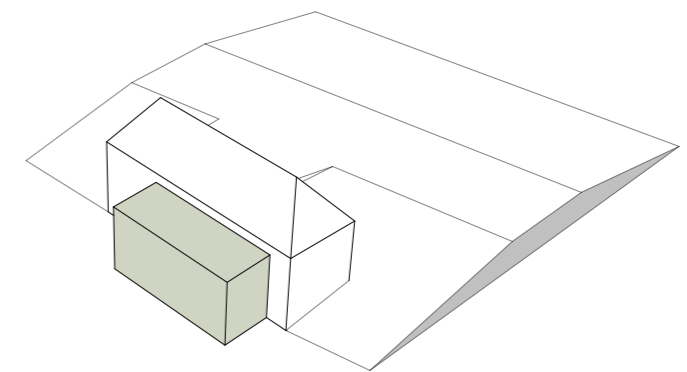


Figure 2.5 - Add sunroom, based on 1906 sunroom

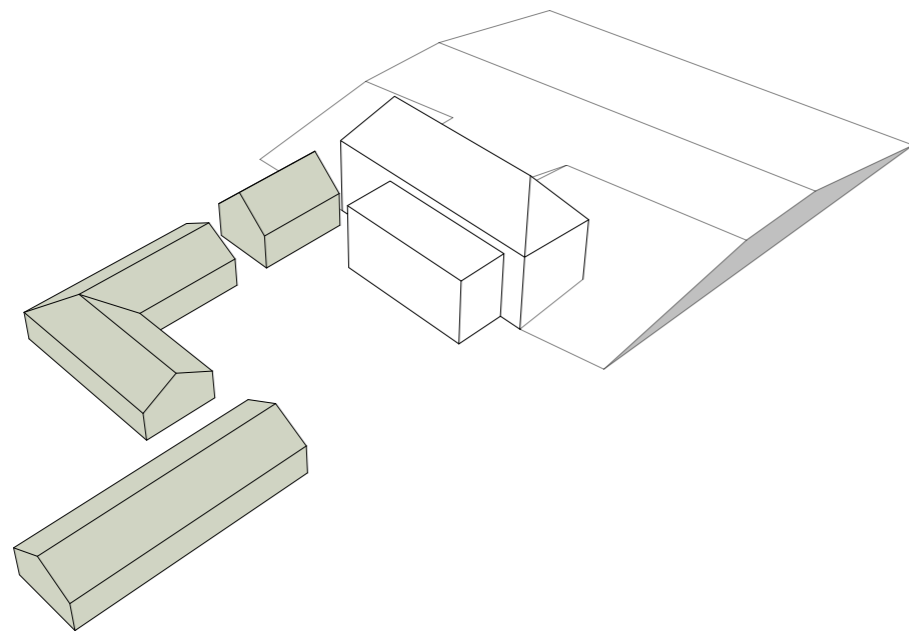


Figure 2.6 - Add timber barns

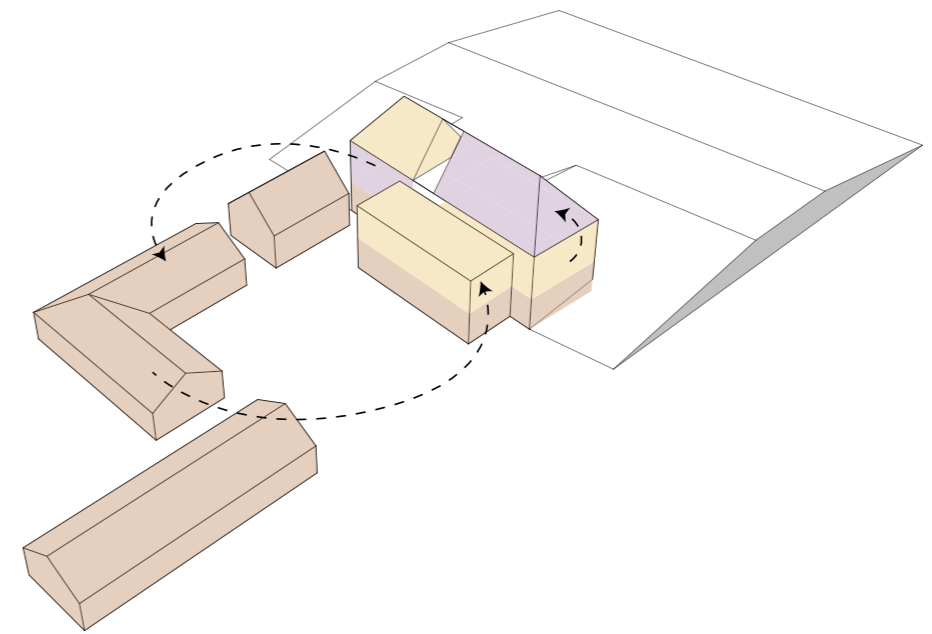


Figure 2.7 - Functions support each other (brown = B&B, yellow = bakery shop, purple = meeting rooms)

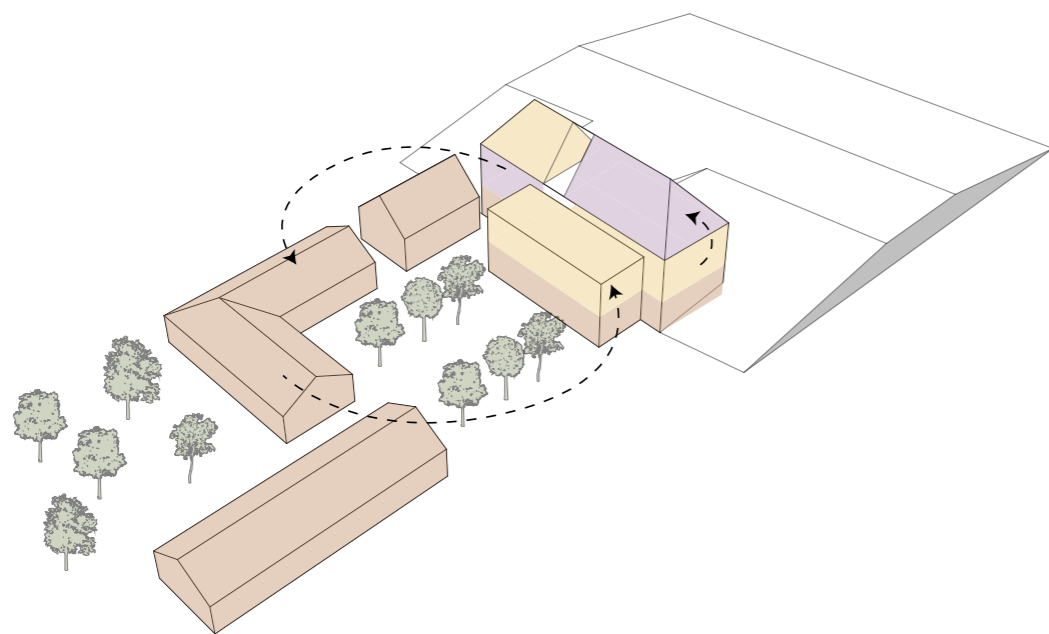


Figure 2.8 - Orchard produces fruits to be used by the bakery shop

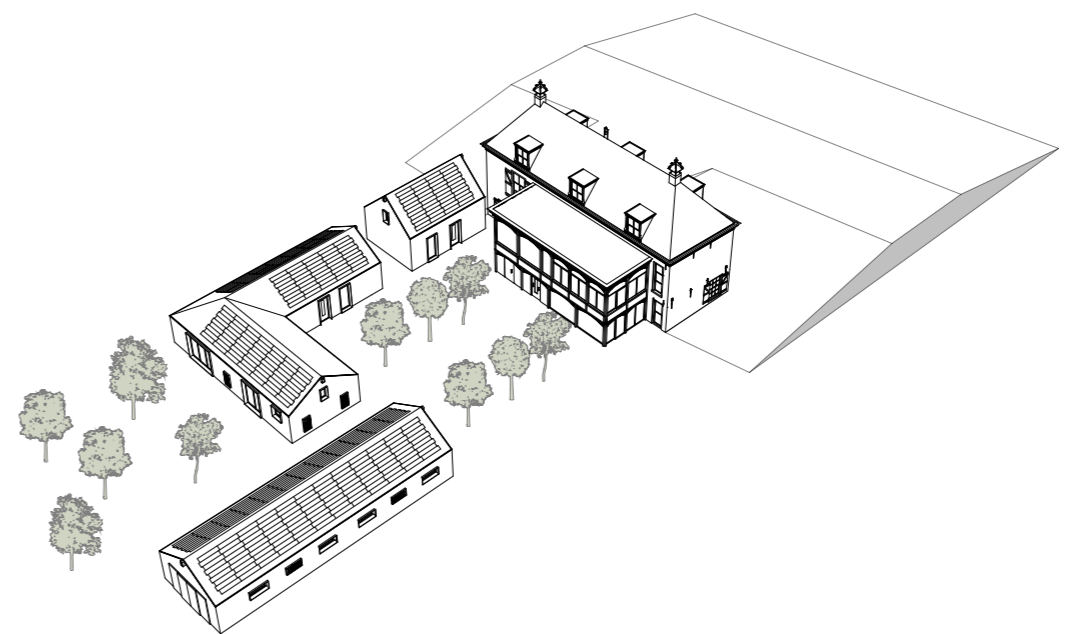


Figure 2.9 - Final design



Figure 2.10 - Current northern elevation



Figure 2.11 - Future northern elevation



Figure 2.12 - Current western elevation



Figure 2.13 - Future western elevation



Figure 2.14 - Current southern elevation



Figure 2.15 - Future southern elevation



Figure 2.16 - Current eastern elevation



Figure 2.17 - Future eastern elevation

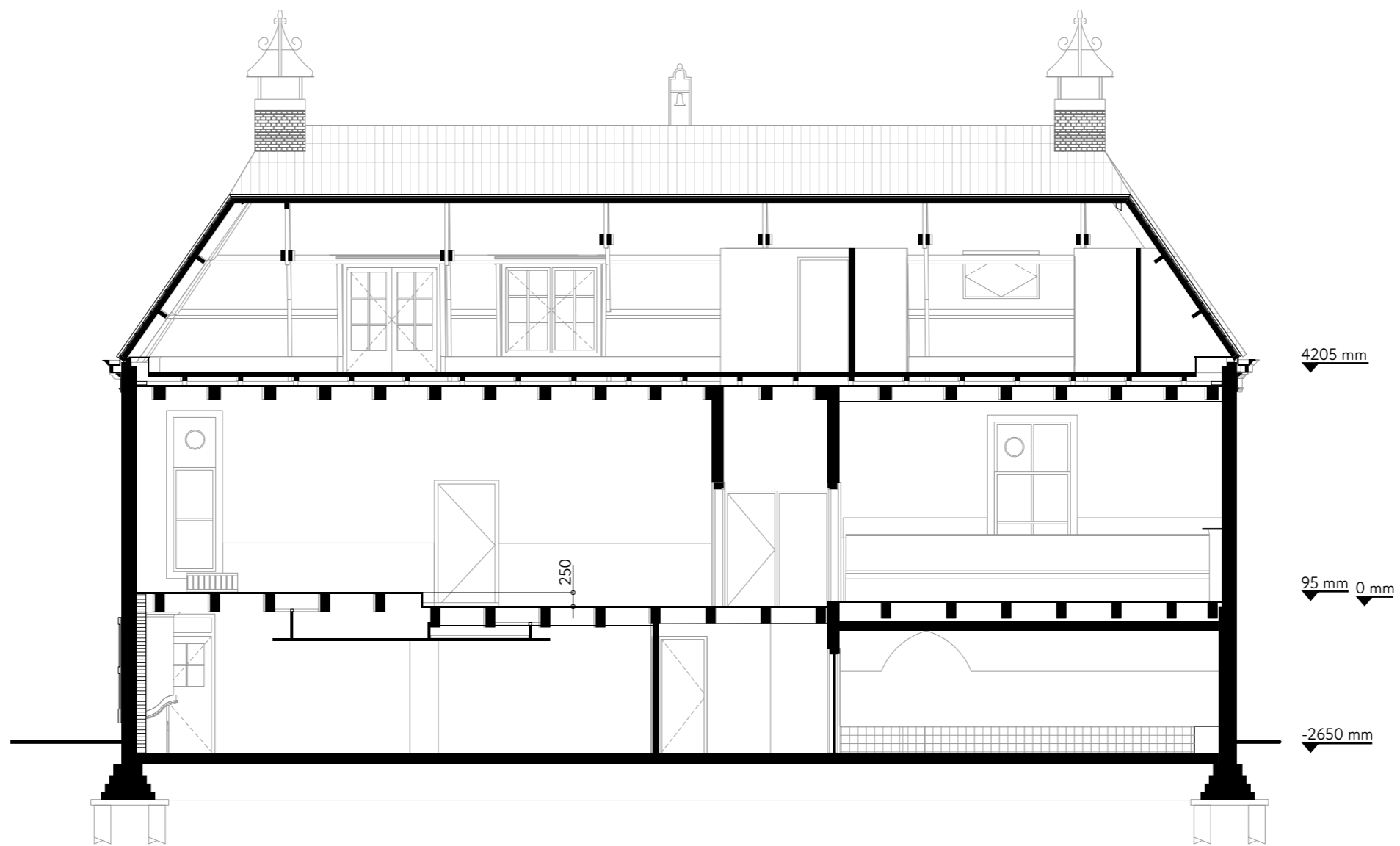


Figure 2.18 - Current section A-A

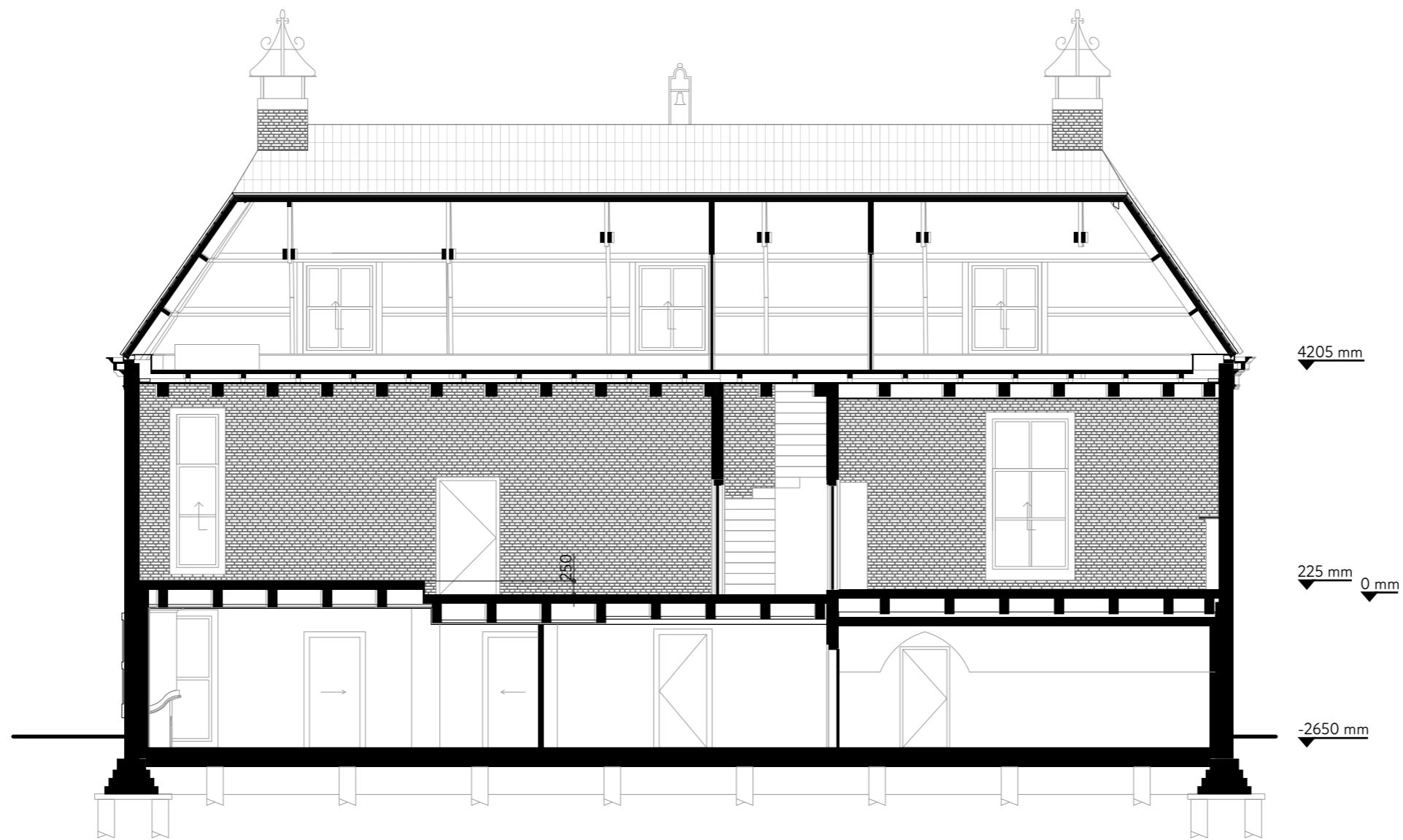


Figure 2.19 - Future section A-A

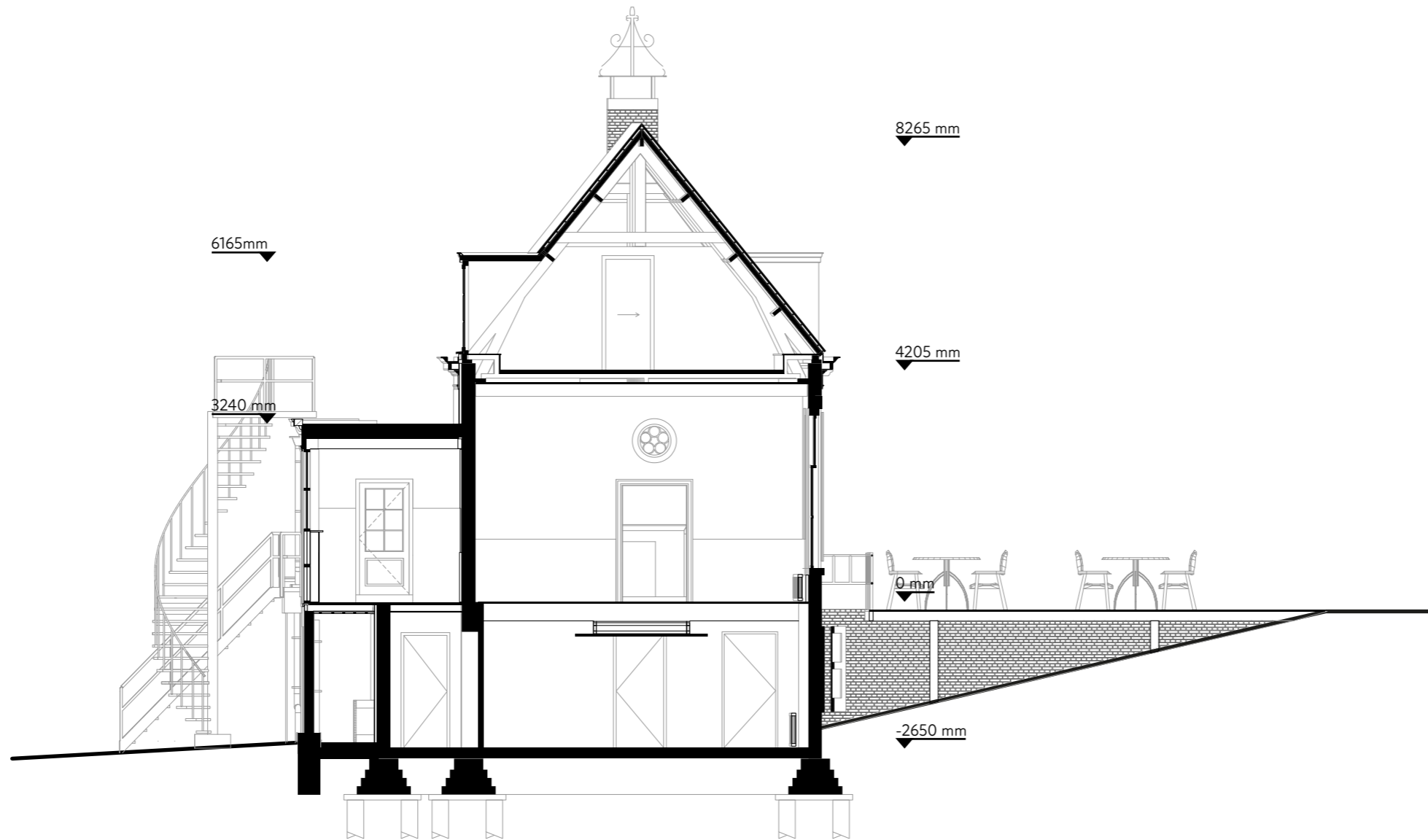


Figure 2.20 - Current section B-B

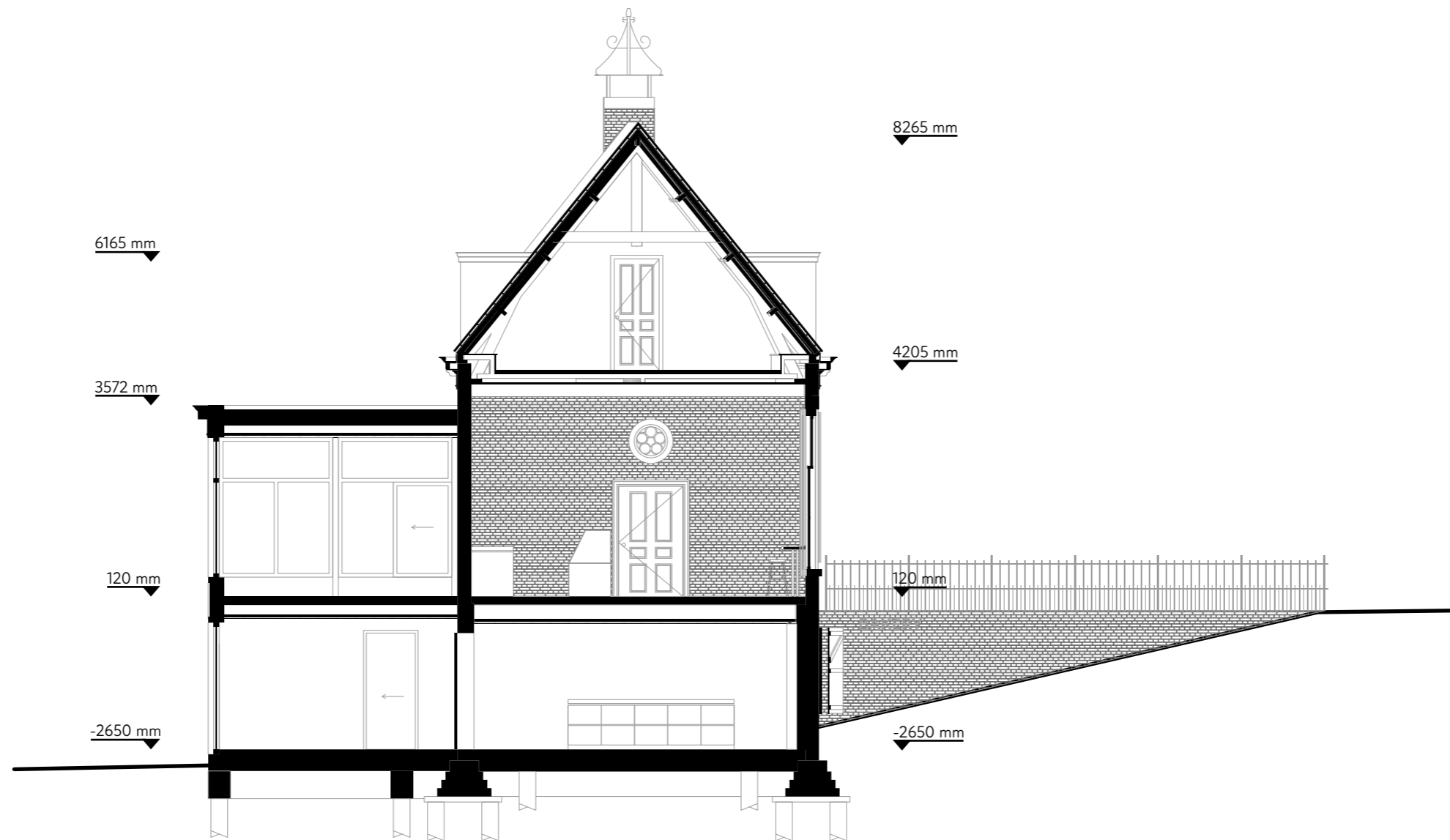


Figure 2.21 - Future section B-B

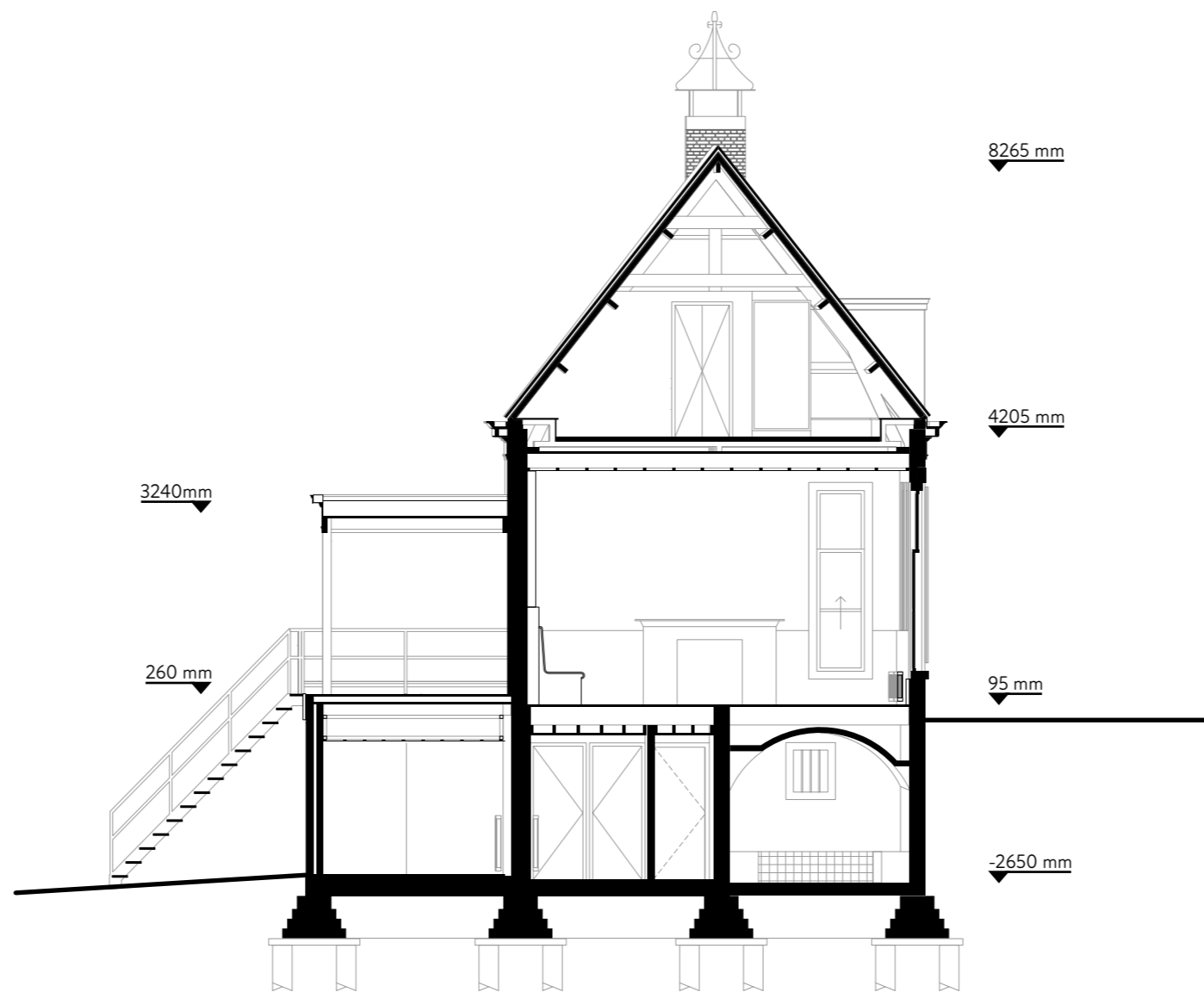


Figure 2.22 - Current section C-C

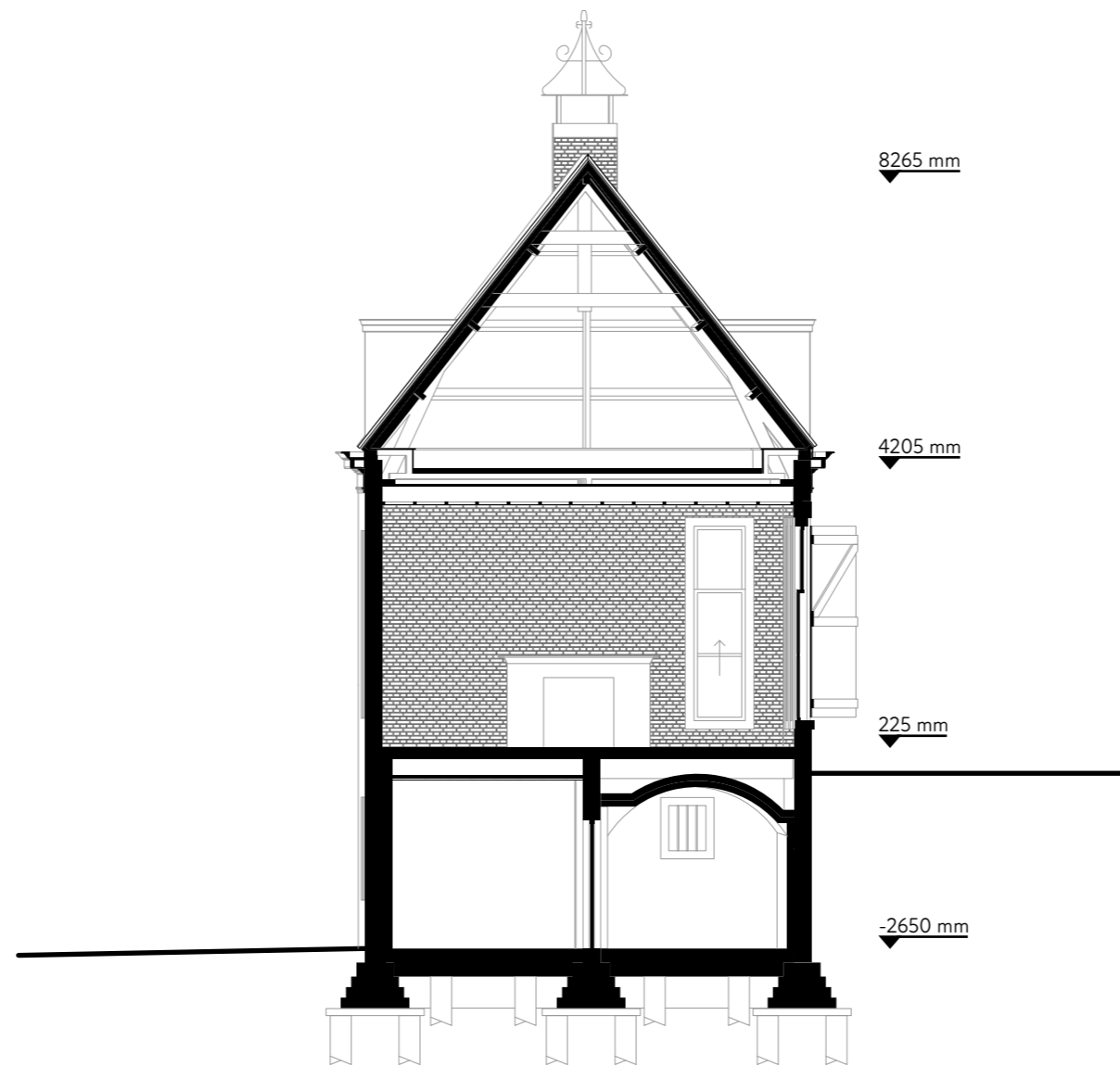


Figure 2.23 - Future section C-C

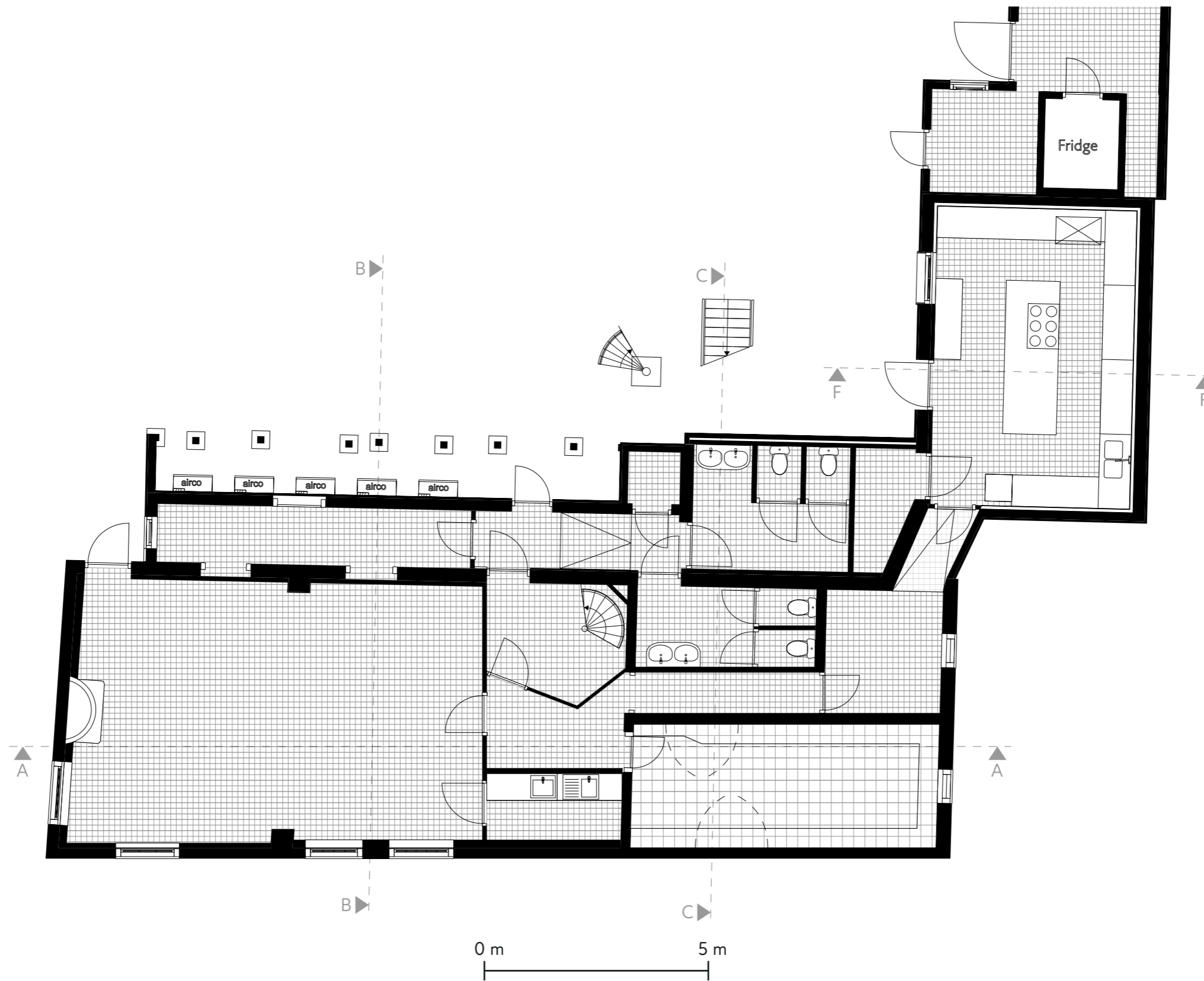


Figure 2.24 - Current floor plan of the ground floor

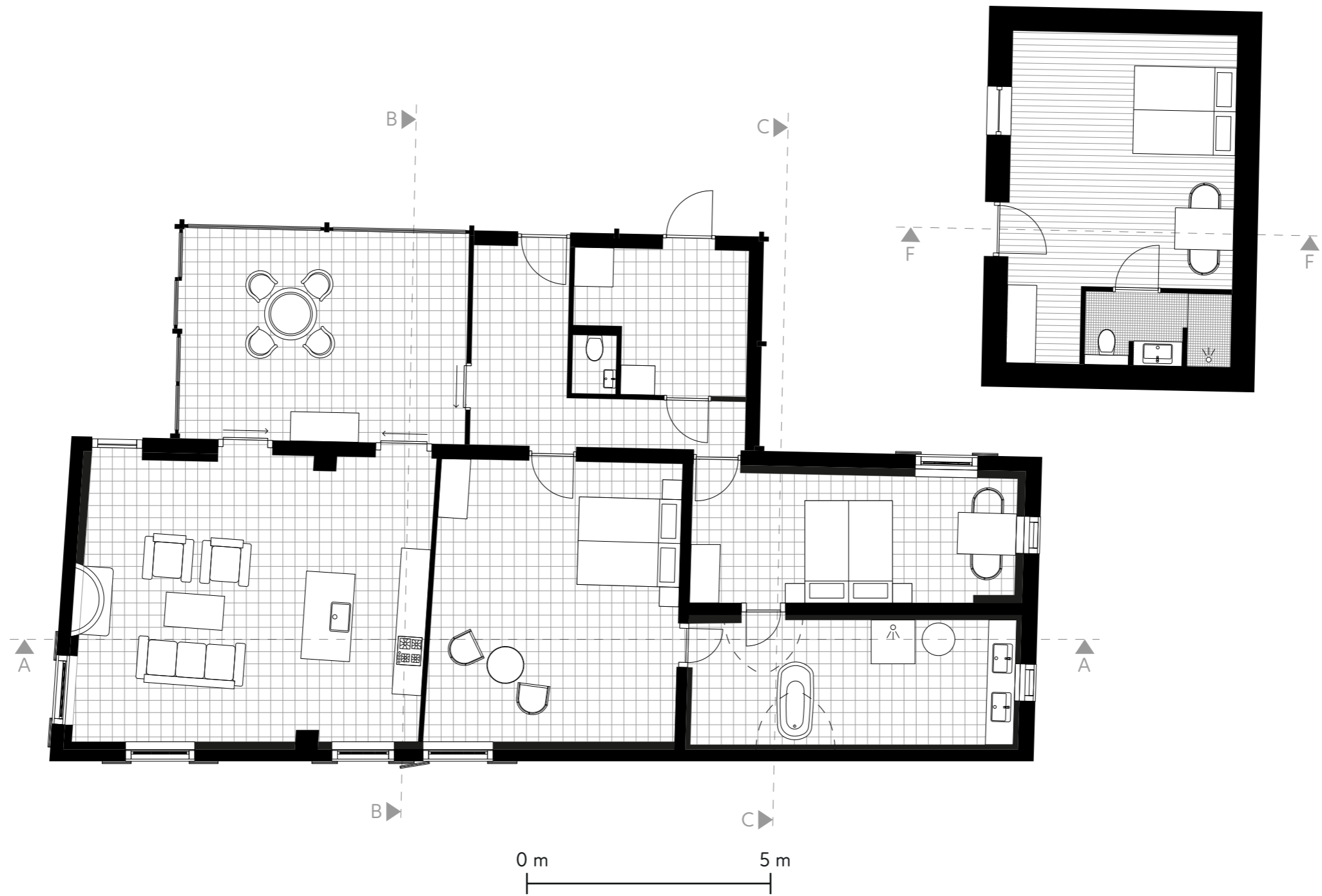


Figure 2.25 - Future floor plan of the ground floor

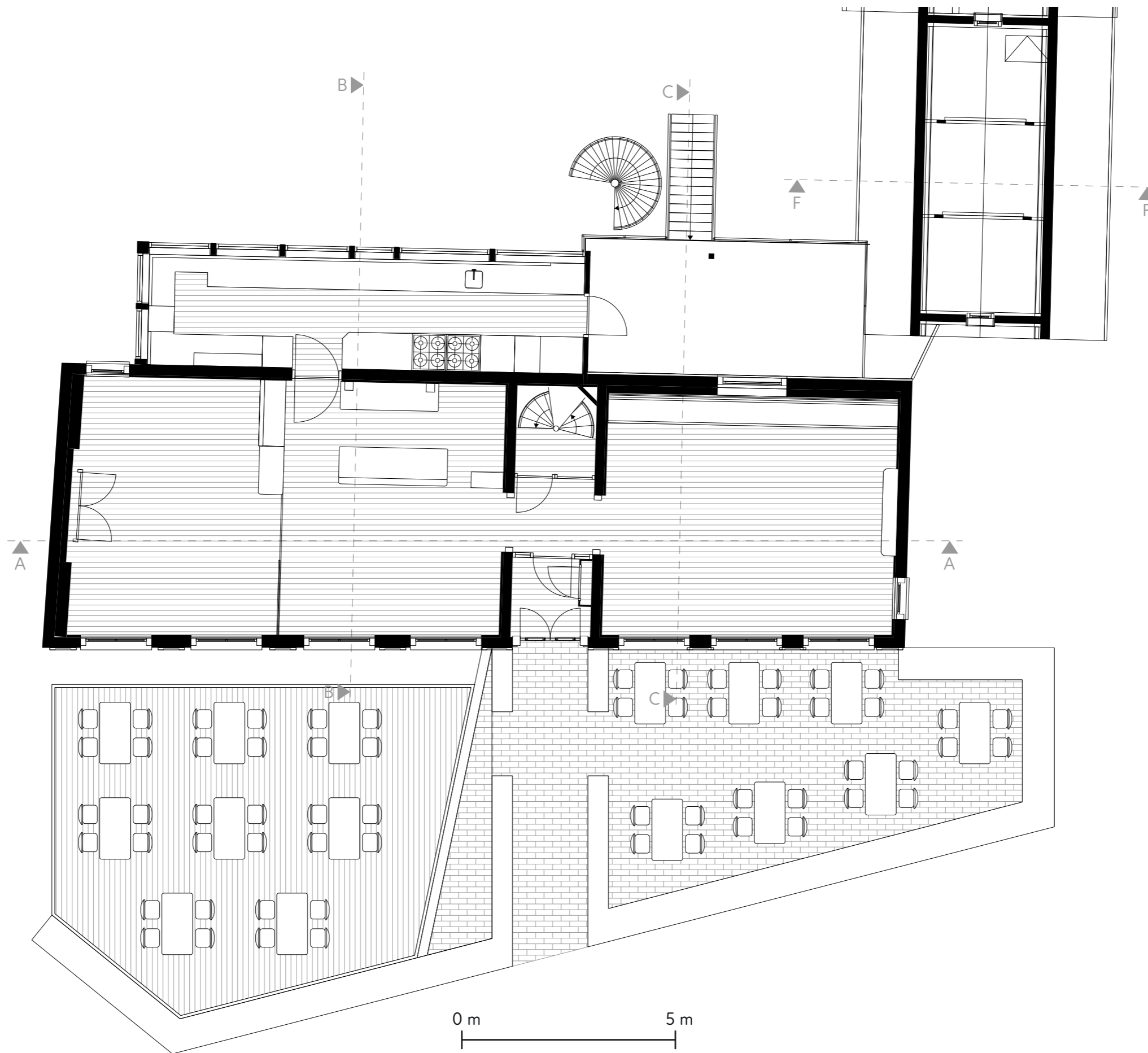


Figure 2.26 - Current floor plan of the first floor

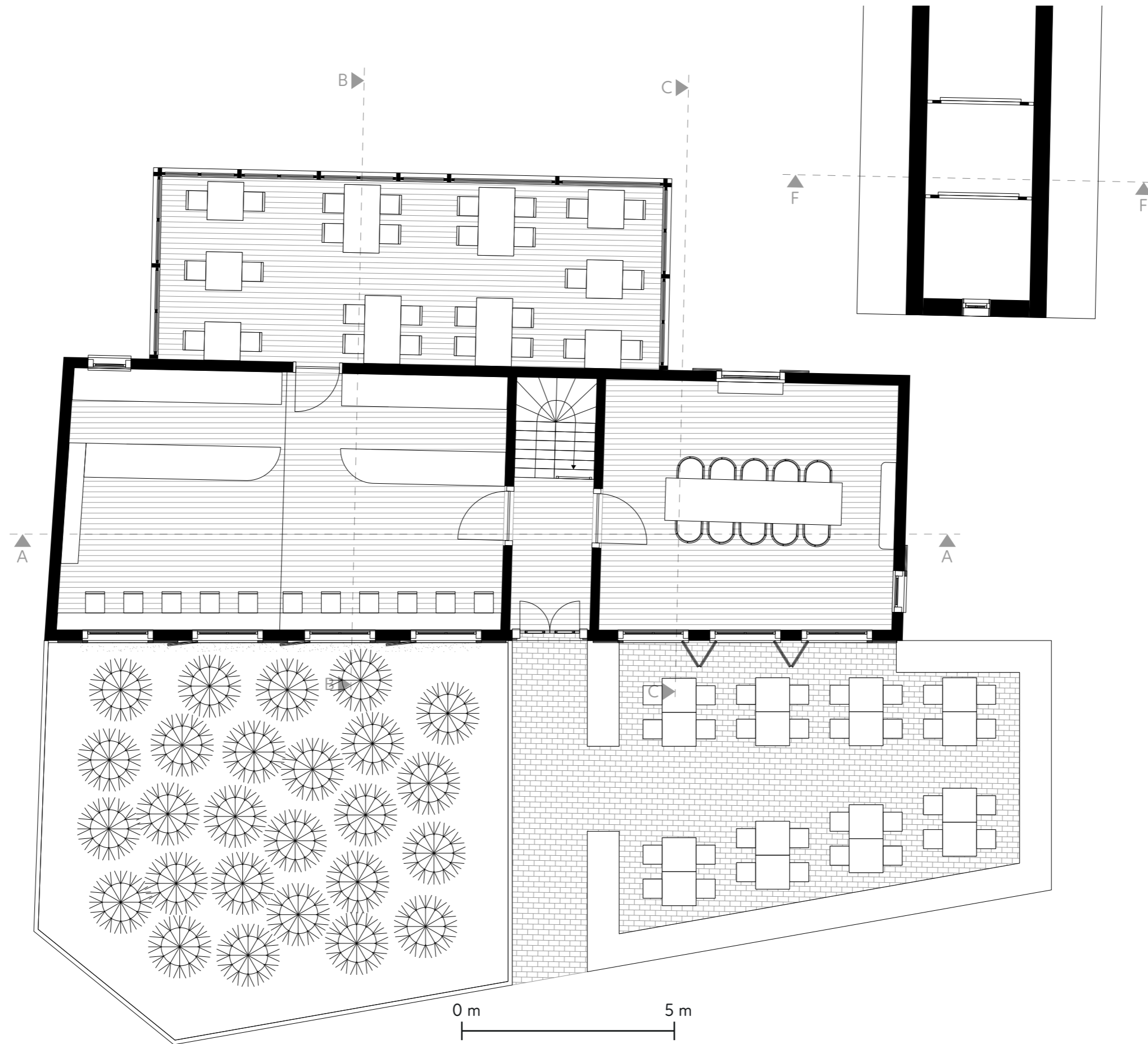


Figure 2.27 - Future floor plan of the first floor

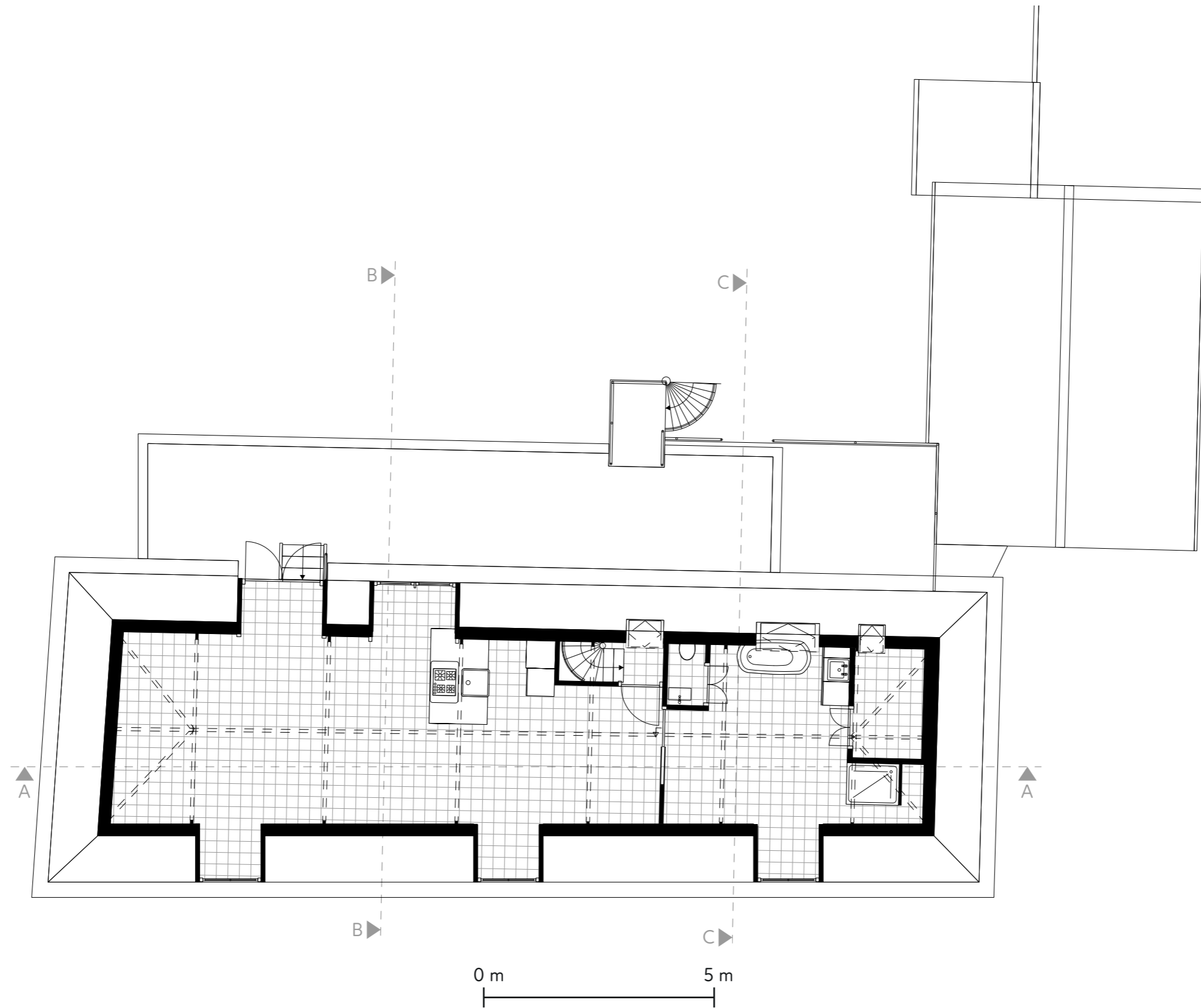


Figure 2.28 - Current floor plan of the attic

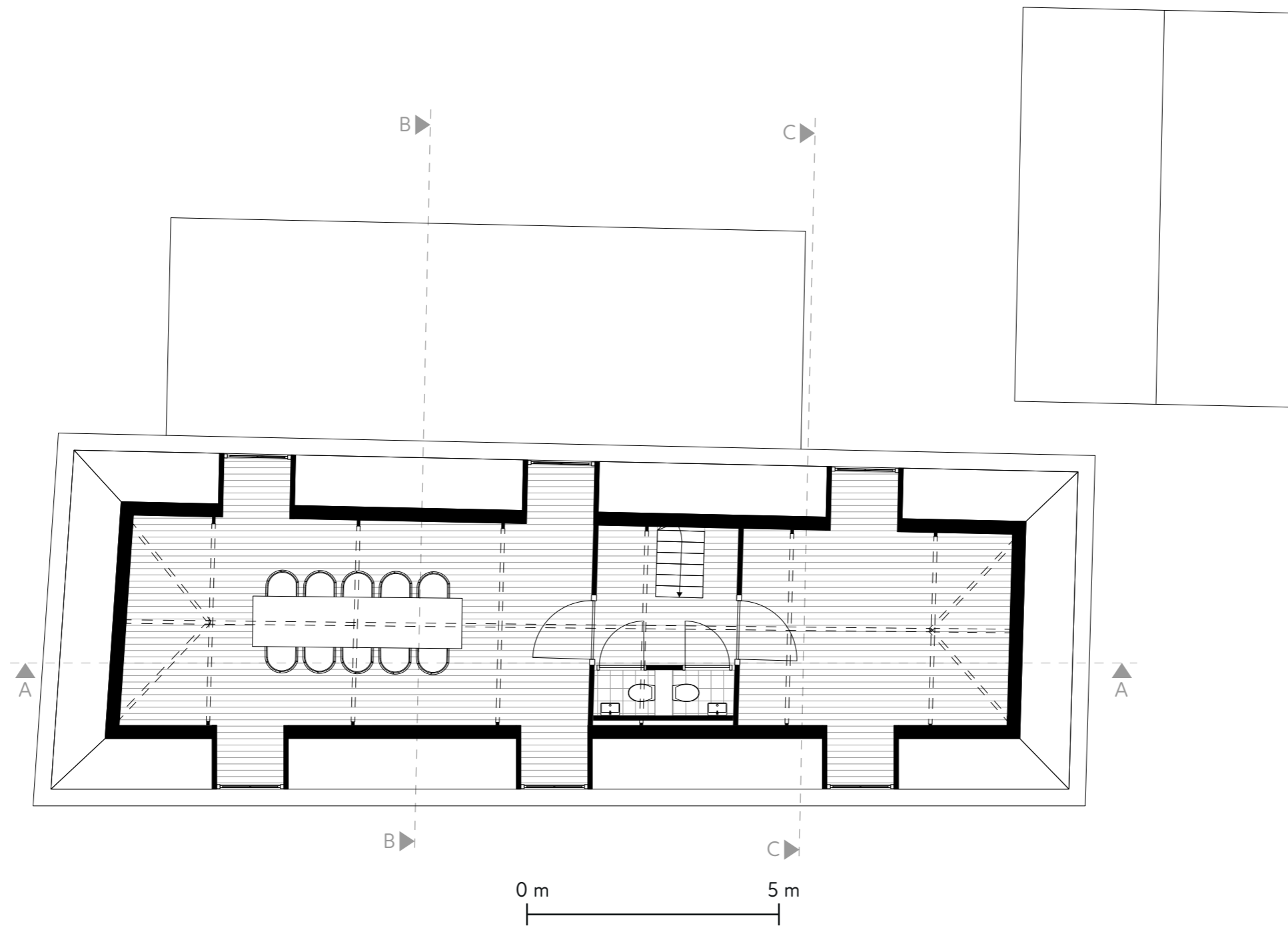


Figure 2.29 - Future floor plan of the attic

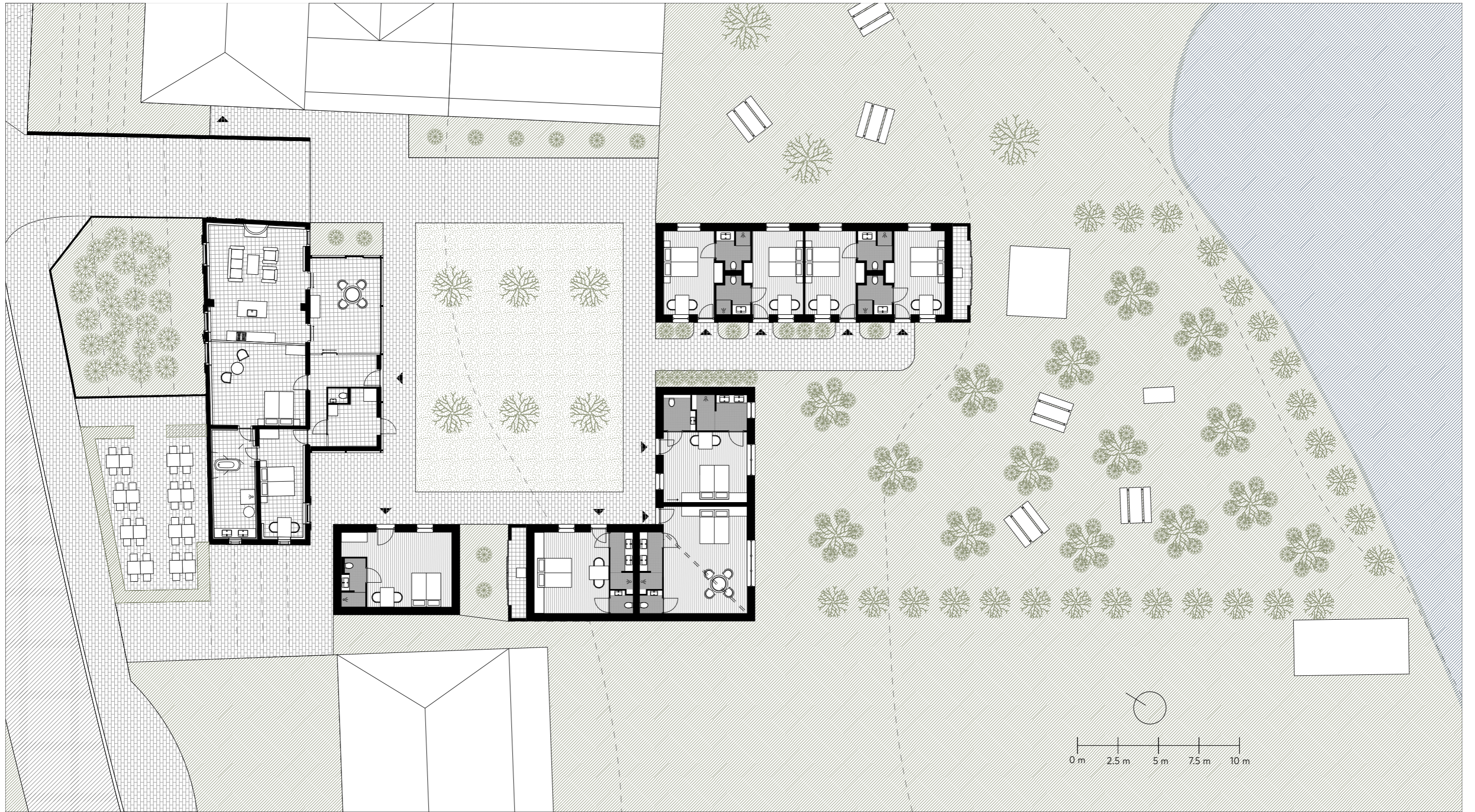


Figure 2.30 - Bed & Breakfast in context 1:200

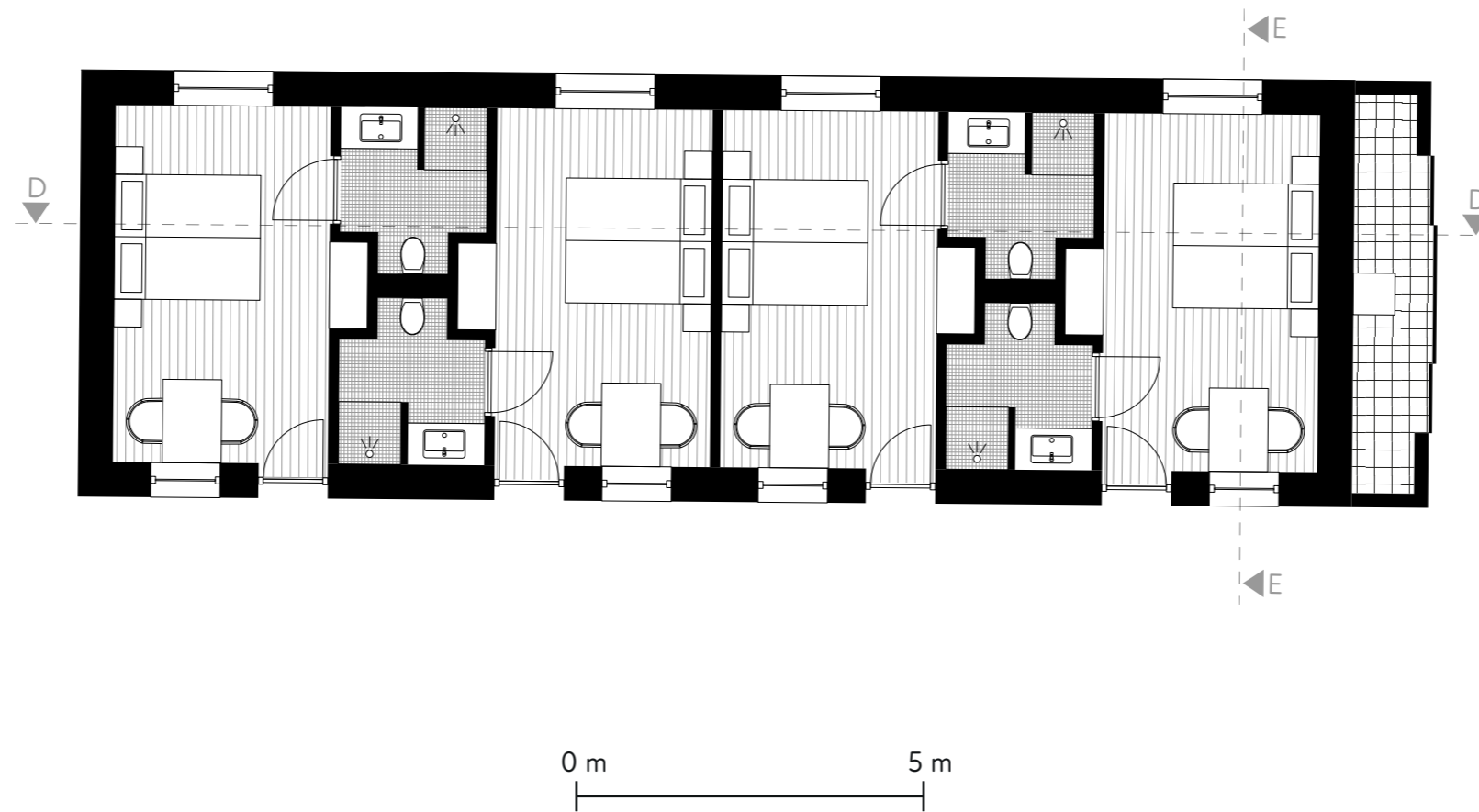


Figure 2.31 - Future floor plan of the straight B&B barn

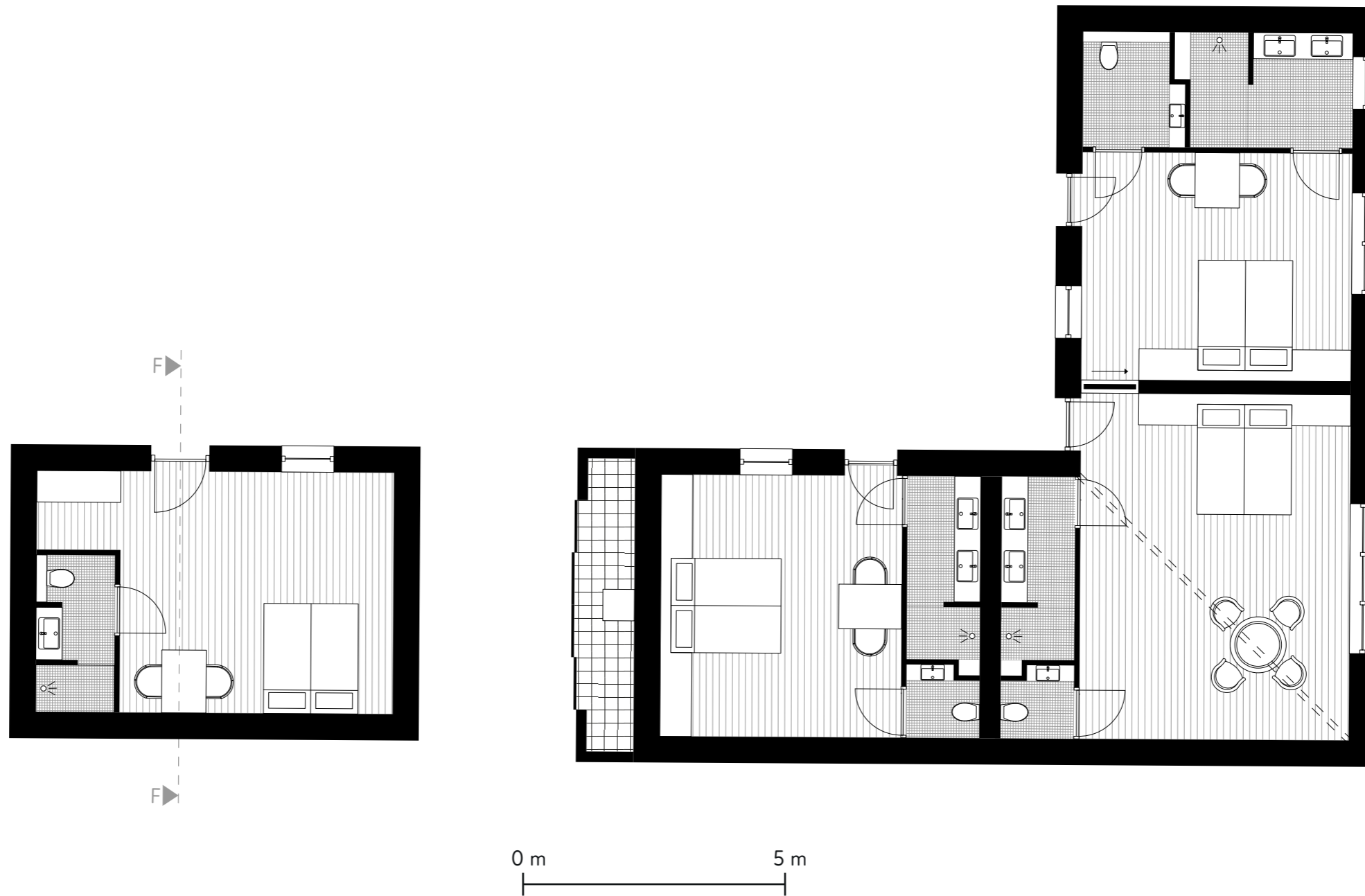


Figure 2.32 - Future floor plan of the corner and 1906 B&B barn

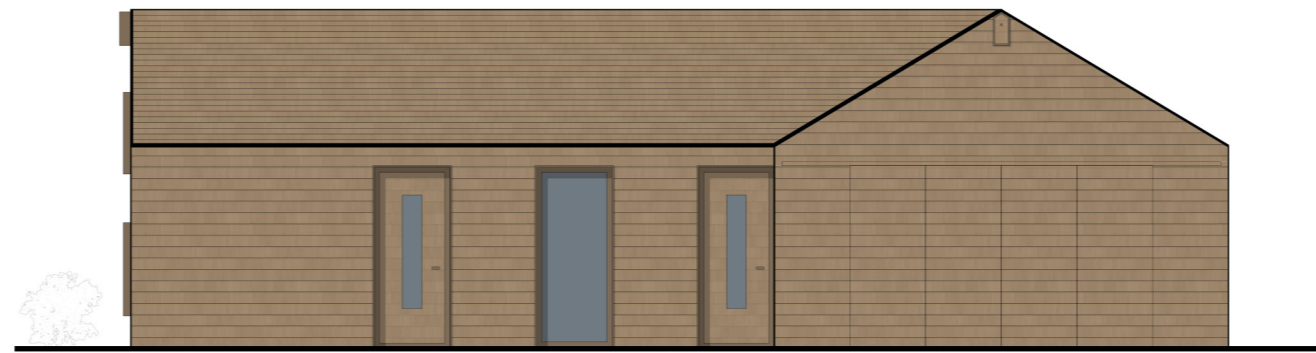


Figure 2.33 - Northern elevation of the corner B&B barn



Figure 2.34 - Western elevation of the corner B&B barn



Figure 2.35 - Southern elevation of the corner B&B barn

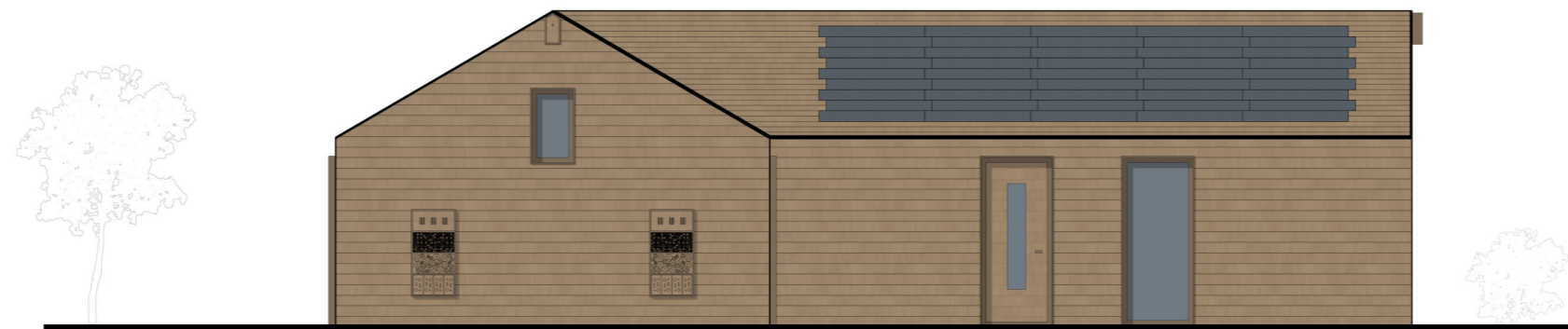


Figure 2.36 - Eastern elevation of the corner B&B barn

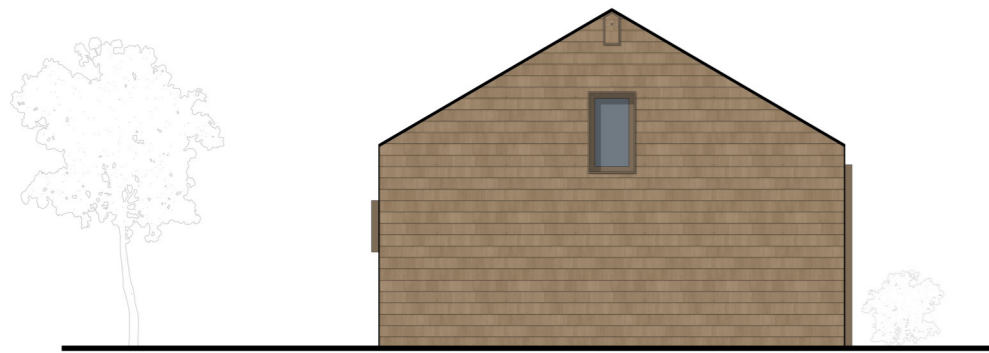


Figure 2.37 - Northern elevation of the straight B&B barn



Figure 2.38 - Western elevation of the straight B&B barn

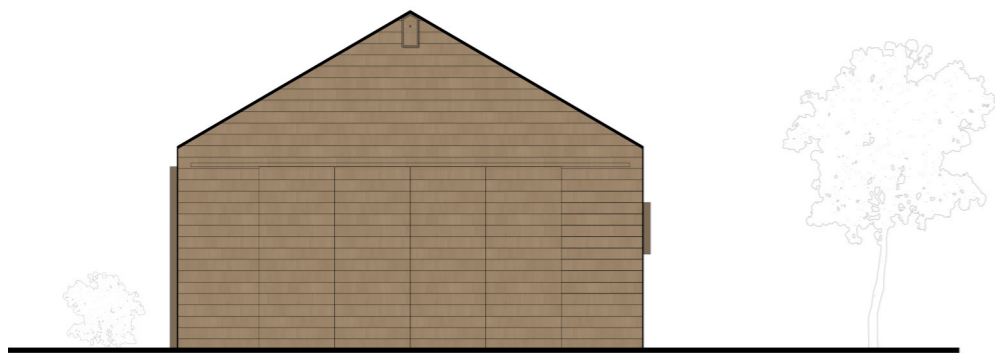


Figure 2.39 - Southern elevation of the straight B&B barn

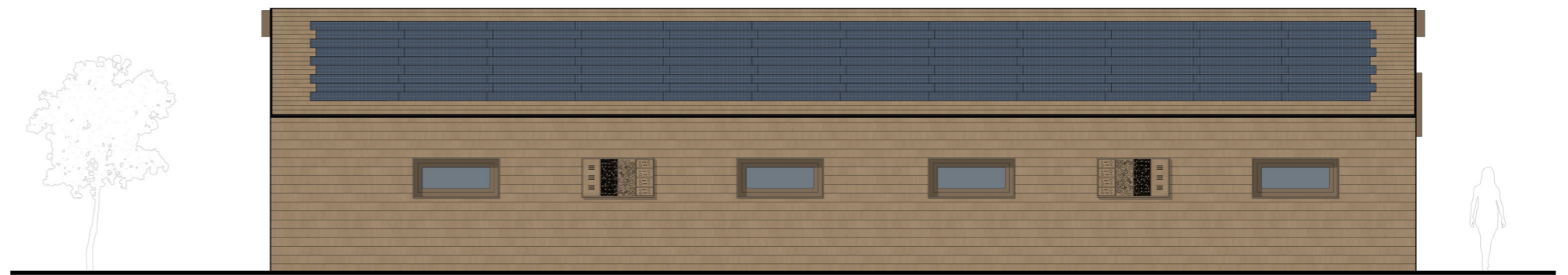


Figure 2.40 - Eastern elevation of the straight B&B barn

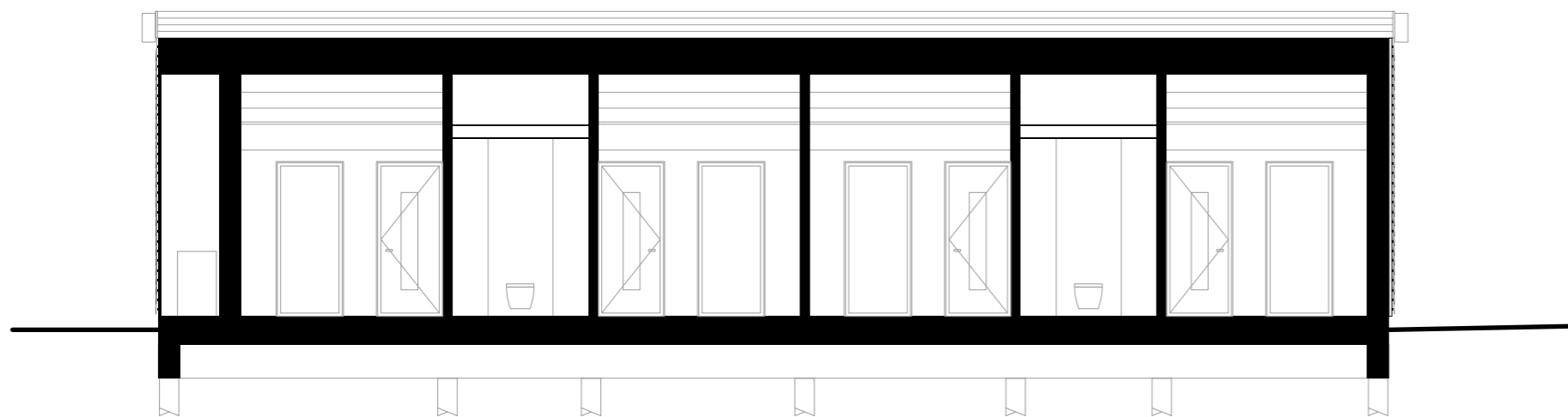


Figure 2.41 - Section D-D

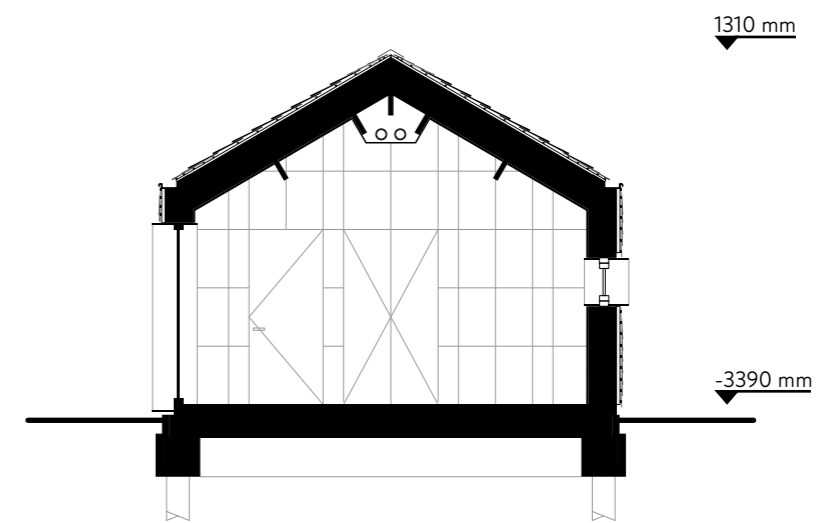


Figure 2.42 - Section E-E

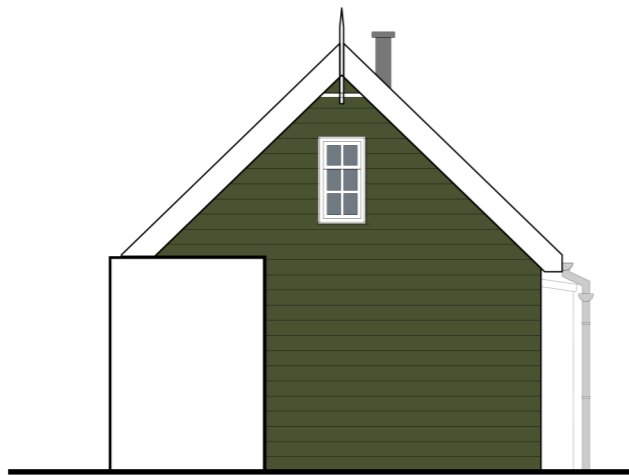


Figure 2.43 - Current northern elevation of the 1906 barn



Figure 2.44 - Future northern elevation of the barn

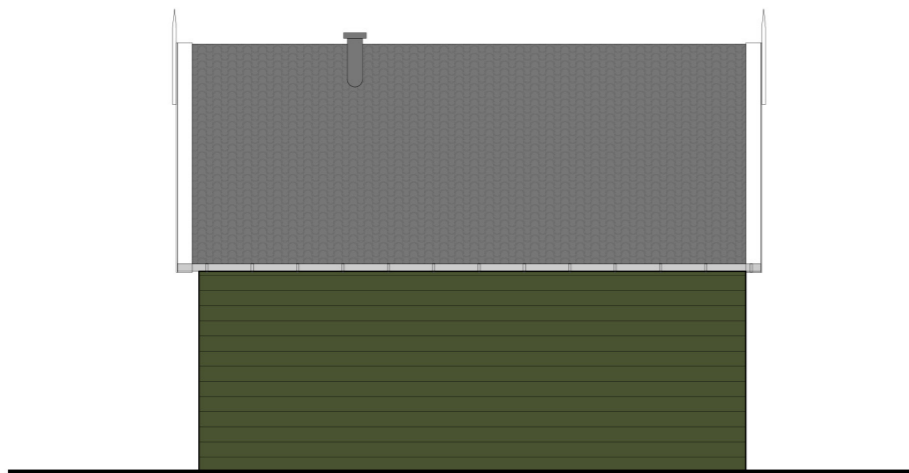


Figure 2.45 - Current western elevation of the 1906 barn

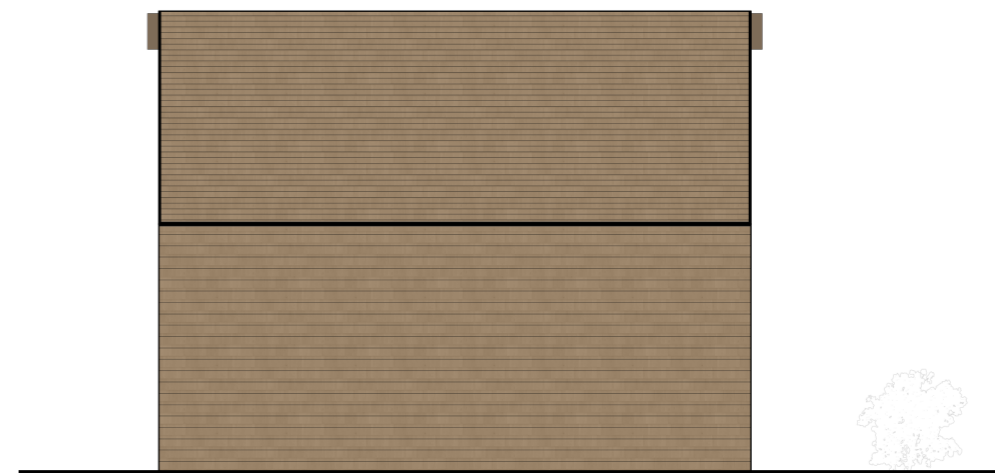


Figure 2.46 - Future western elevation of the barn

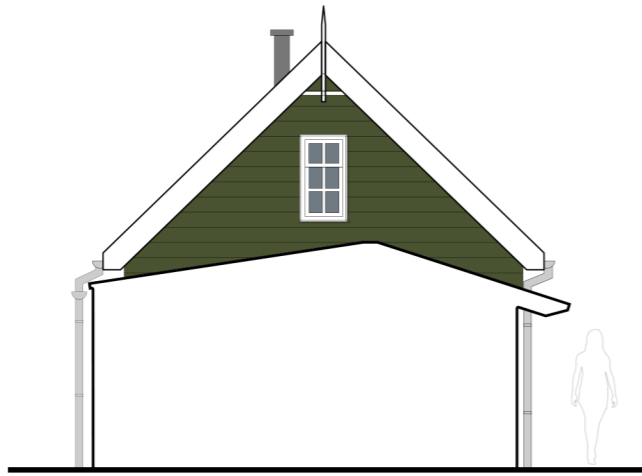


Figure 2.47 - Current southern elevation of the 1906 barn

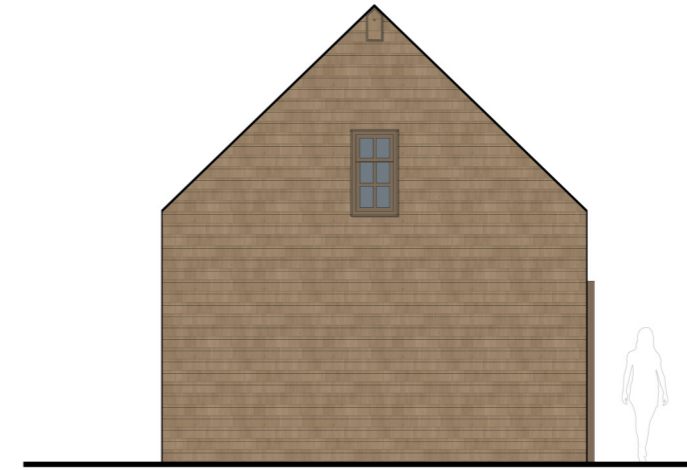


Figure 2.48 - Future southern elevation of the barn

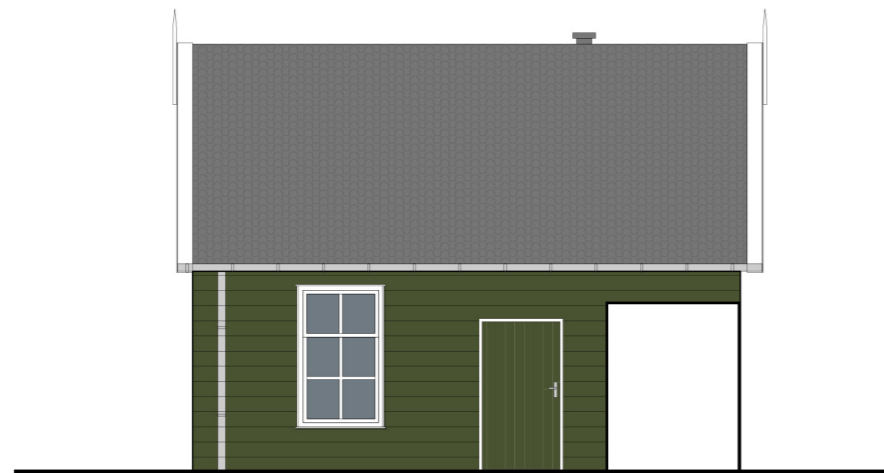


Figure 2.49 - Current eastern elevation of the 1906 barn



Figure 2.50 - Future eastern elevation of the barn

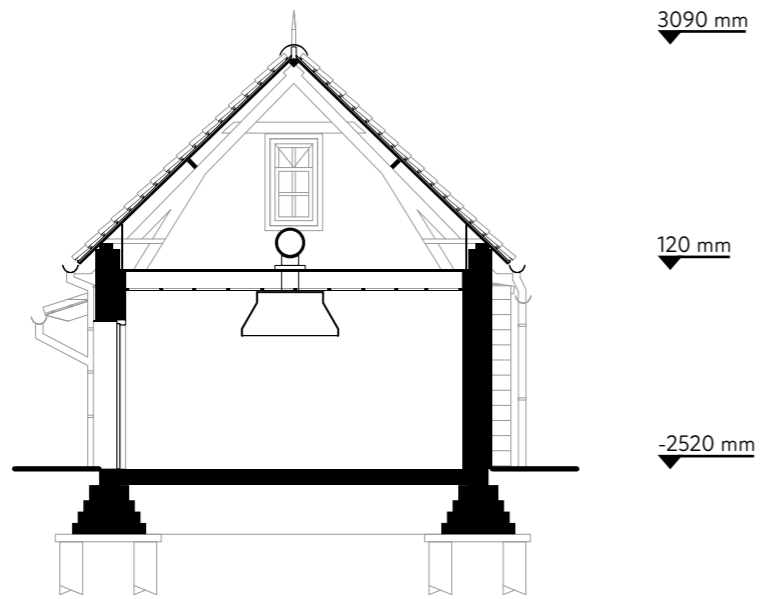


Figure 2.51 - Current section F-F

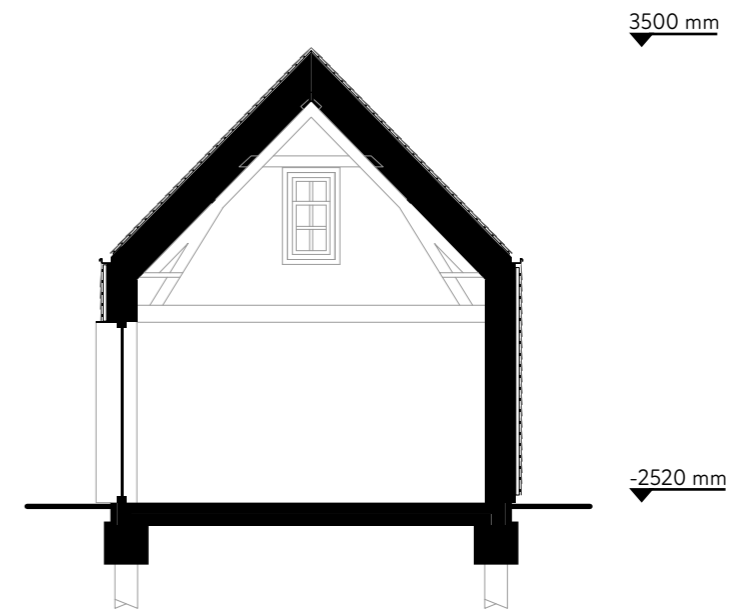


Figure 2.52 - Future section F-F

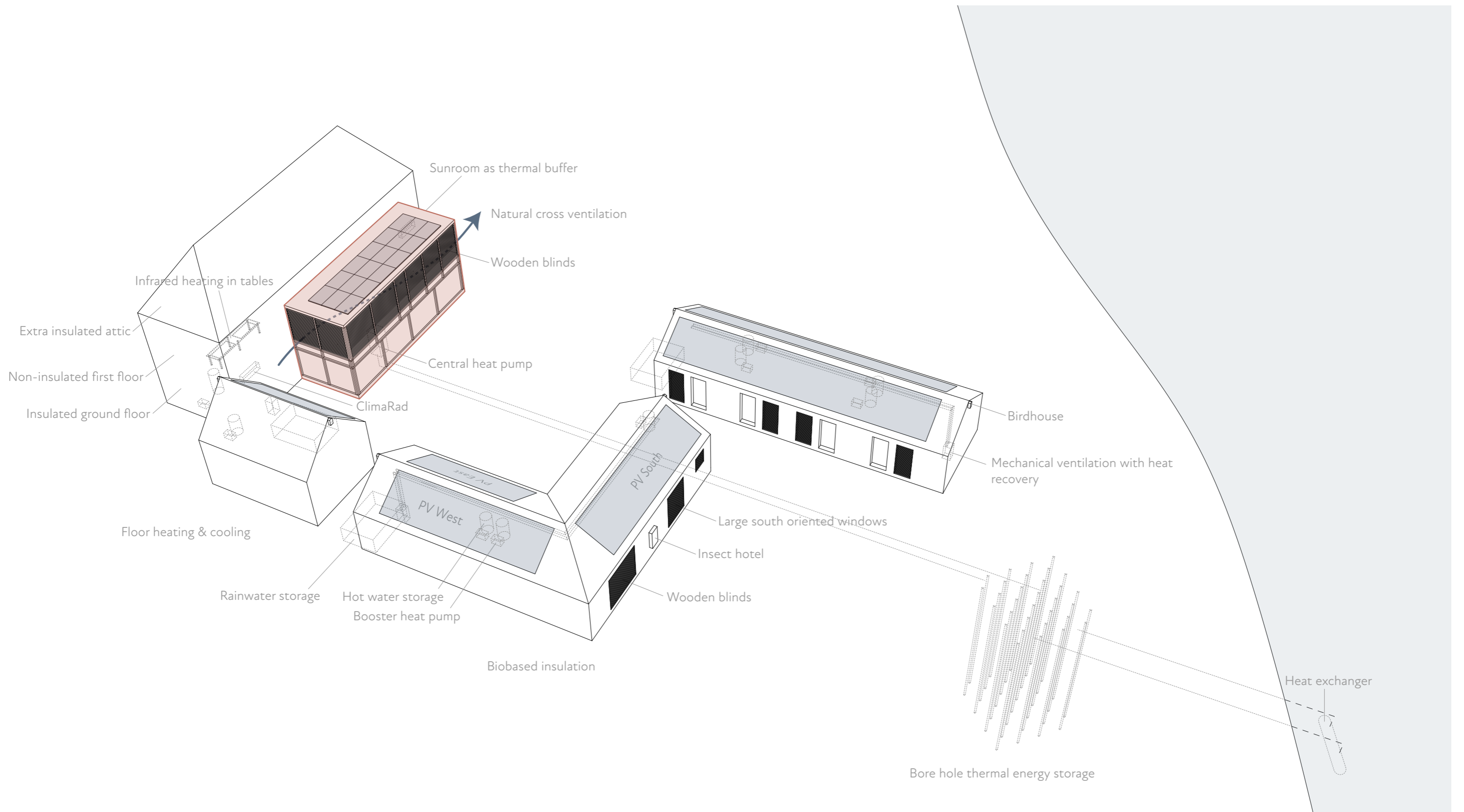


Figure 2.53 - Climate scheme: B&B barns, Gemeenlandshuis and surrounding working together

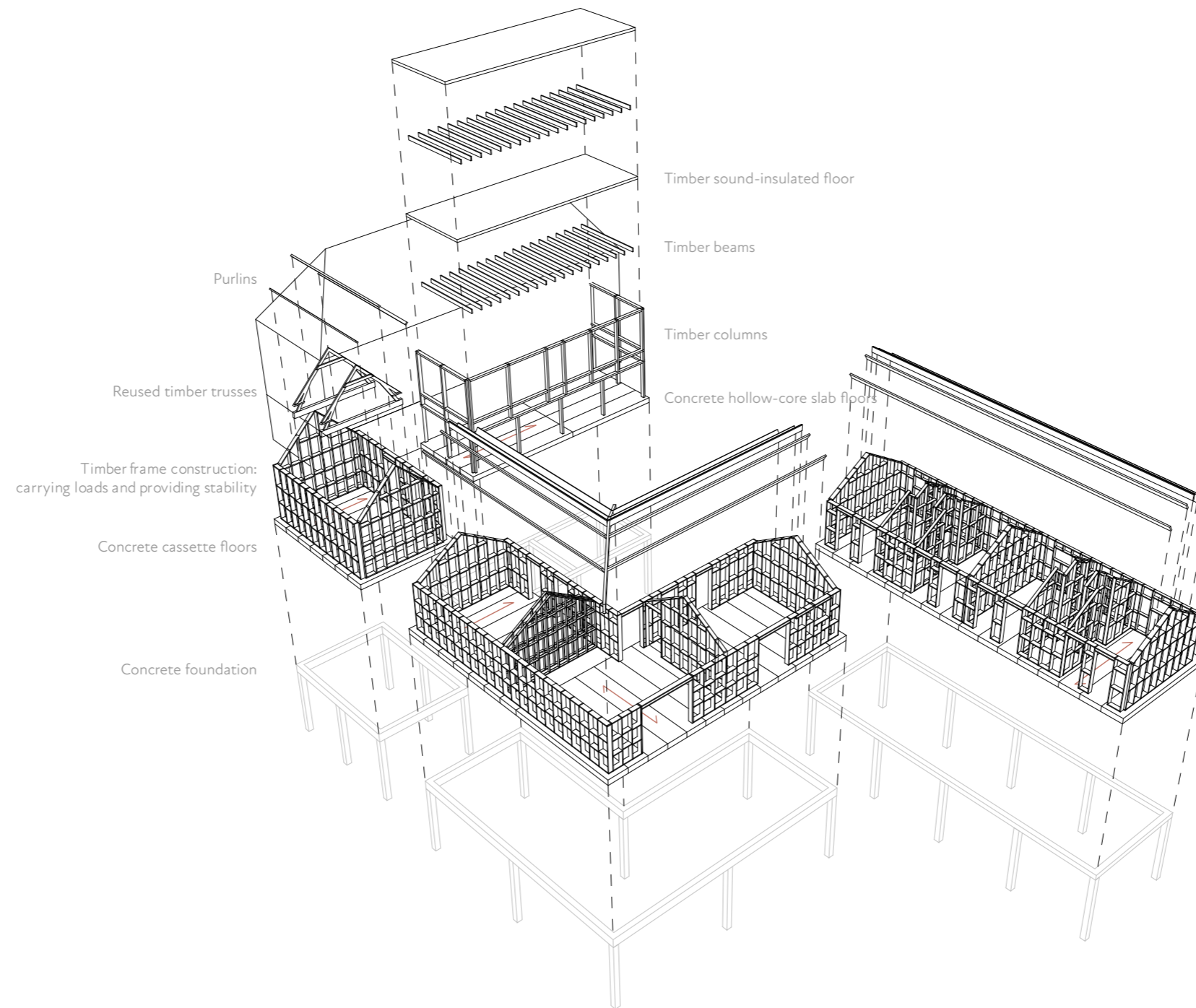


Figure 2.54 - Structure of B&B barns and sunroom



Figure 2.55 - Entering the orchard courtyard



Figure 2.56 - The sunroom and courtyard viewed from in between the barns.



Figure 2.57 - View from within the sunroom to the mills and Natura 2000 area

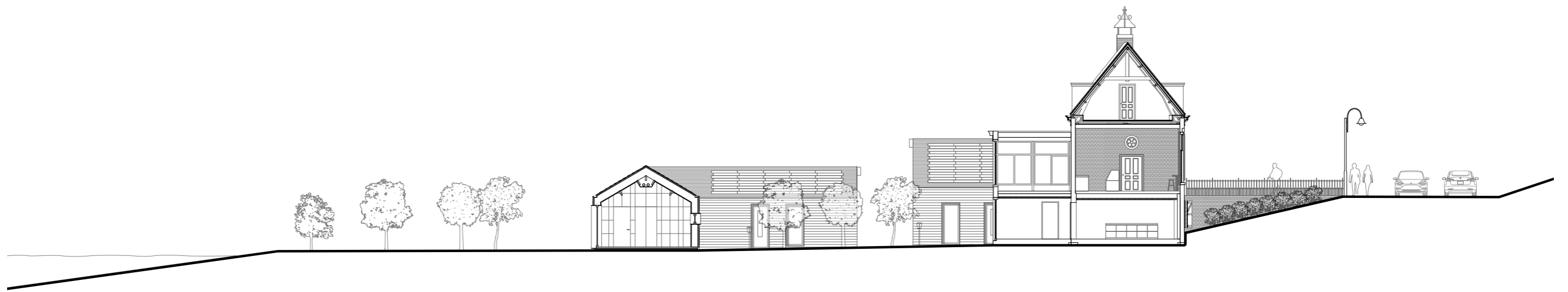
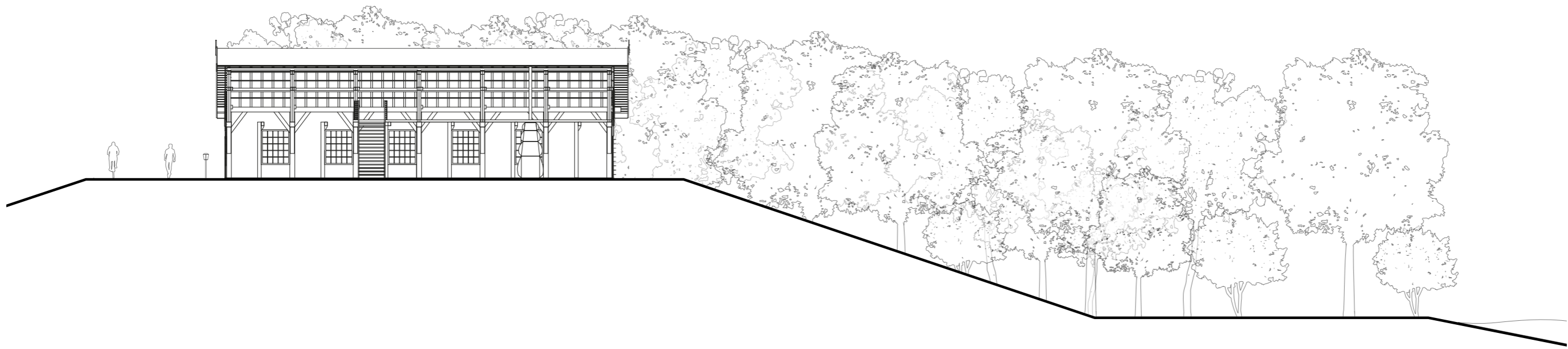


Figure 2.58 - Section through B&B barns, Gemeenlandshuis, and Pot barn



Chapter 3

Pot Barn

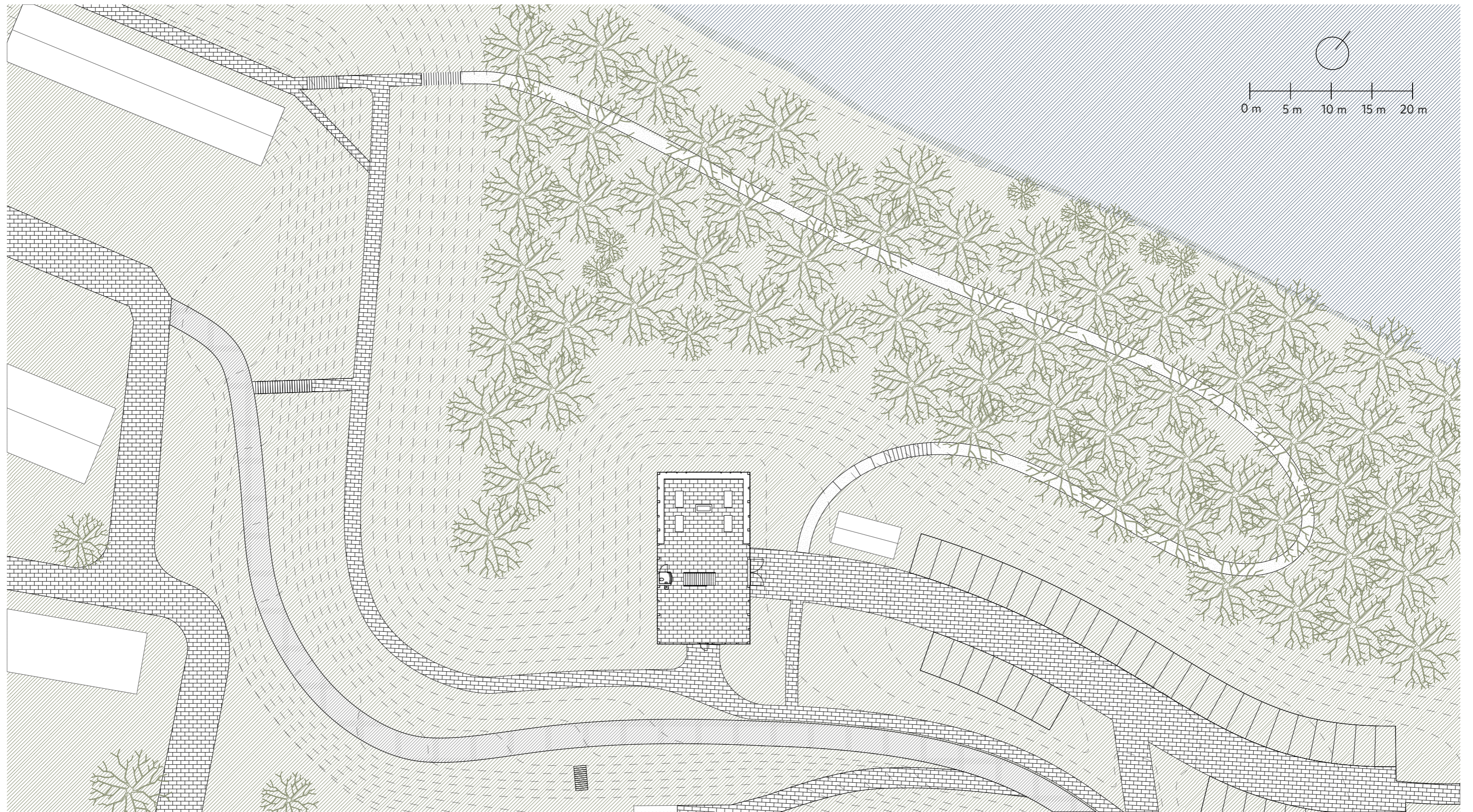


Figure 3.1 - The Pot barn in context 1:500

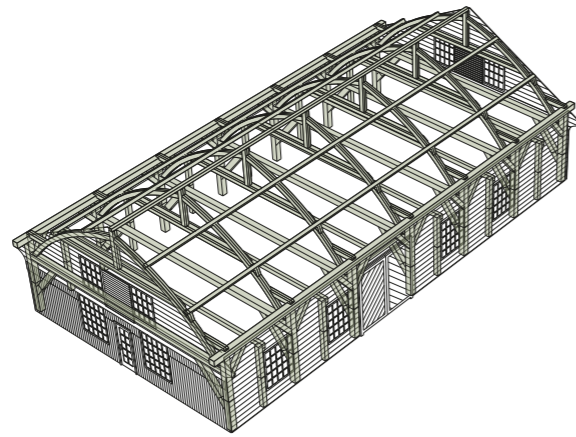


Figure 3.2 - The highly valued Philibert trusses

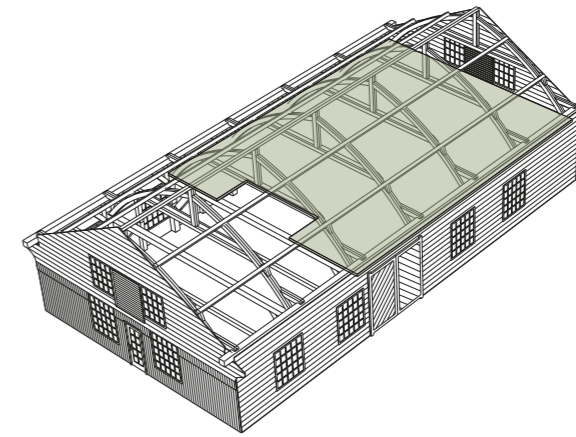


Figure 3.3 - Create a void

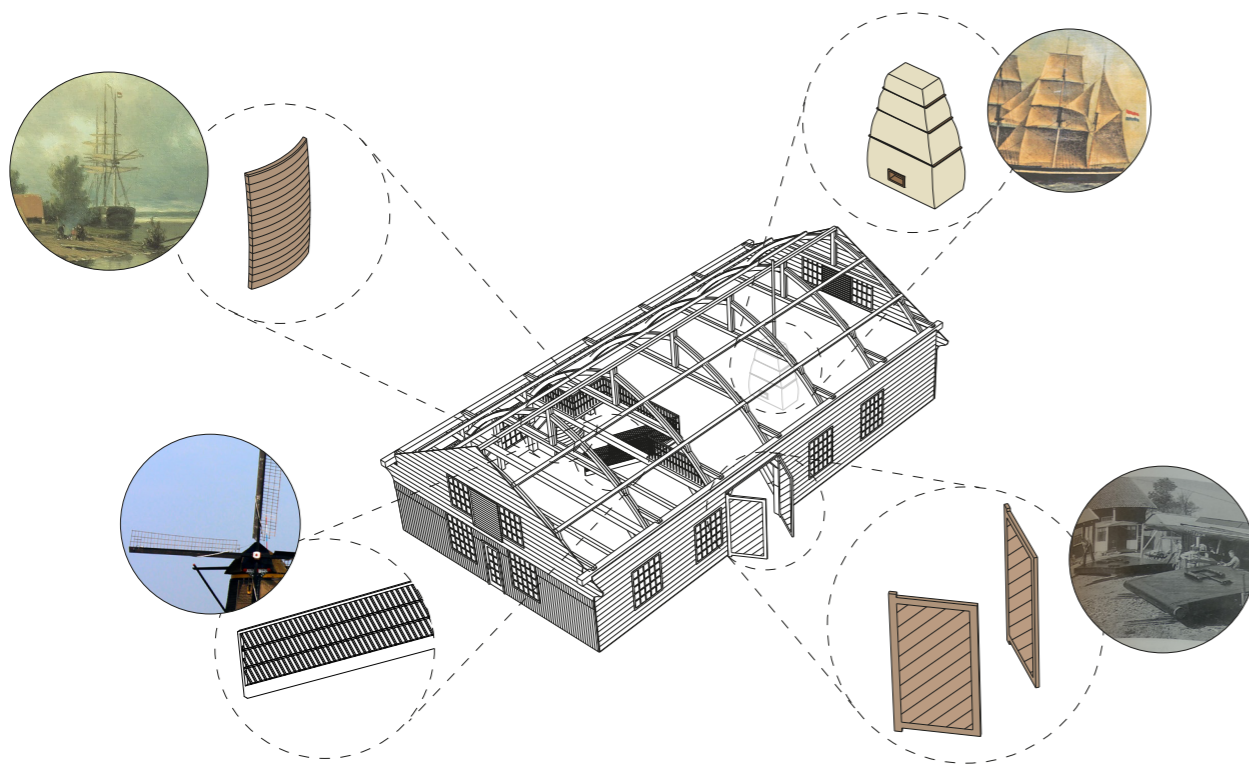


Figure 3.4 - Added elements refer to previous practices in the barn. Top left: From *Nieuw-Lekkerlandse winkels en bedrijven in vroeger jaren* (p. 349), by Deelen, J. W., Janse, G., De Jong, A., & Van der Wulp, A., 2002, Stichting Publicaties West-Alblasserwaard.; Top right: From "Werf Gusto," unknown author, n.d. (<https://werf-gusto.com/bouwlijst-de-nijverheid/>); Bottom left: From "Jadescapades," by Jade, 2015 (<https://www.jadescapades.com/kinderdijk/>); Bottom right: From "Haarlems Dagblad," by J. Weissenbruch, n.d. (https://www.haarlemsdagblad.nl/cnt/dmf20181019_26464770?utm_source=google&utm_medium=organic).

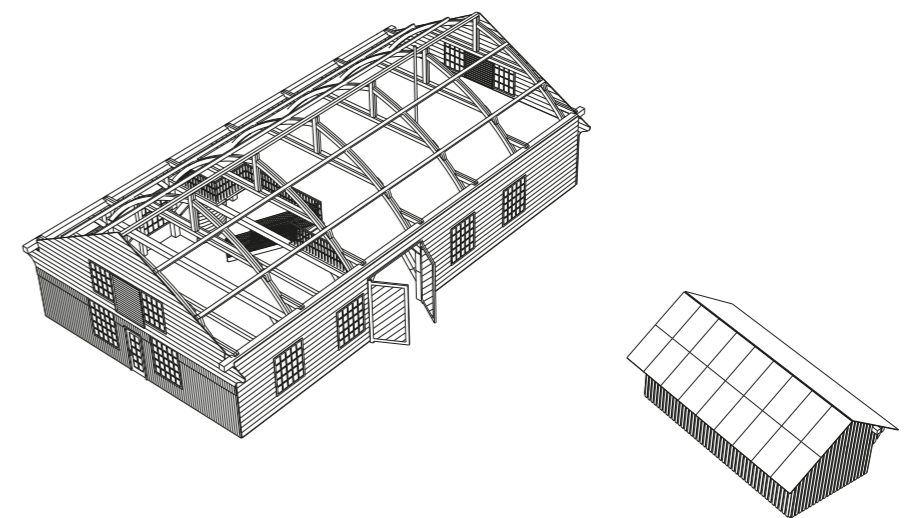


Figure 3.5 - Timber storage barn completes design

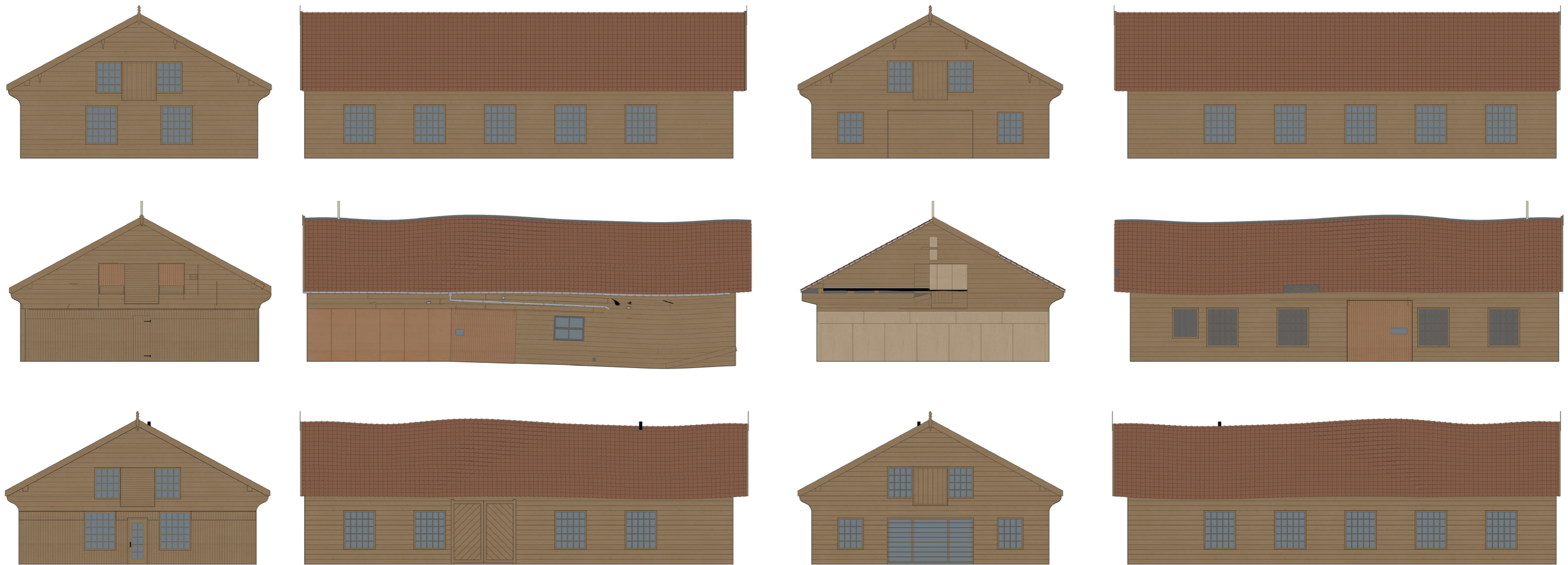


Figure 3.6 - From top to bottom: original, current, and future elevations. From left to right: southern, eastern, northern, and western elevations.

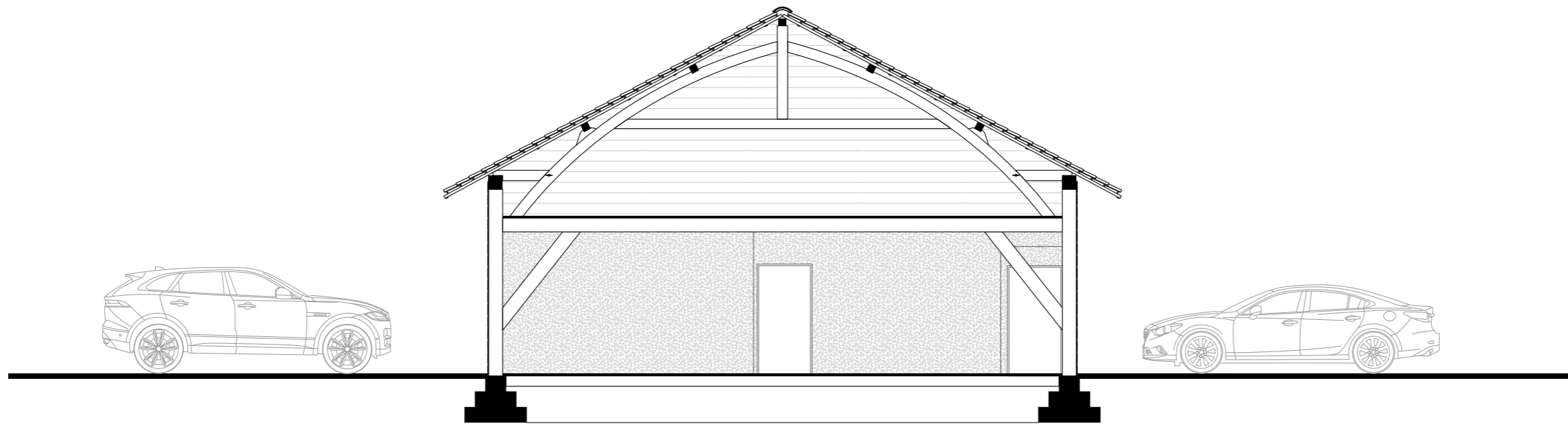


Figure 3.7 - Current section short

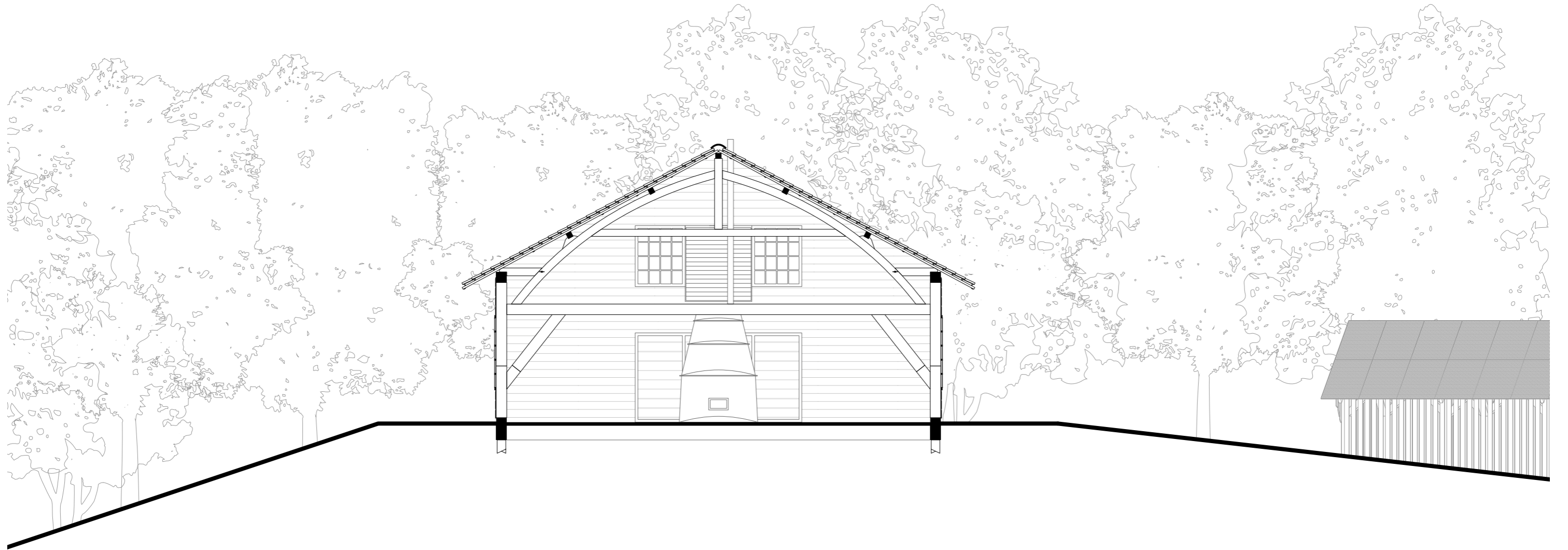


Figure 3.8 - Future section short

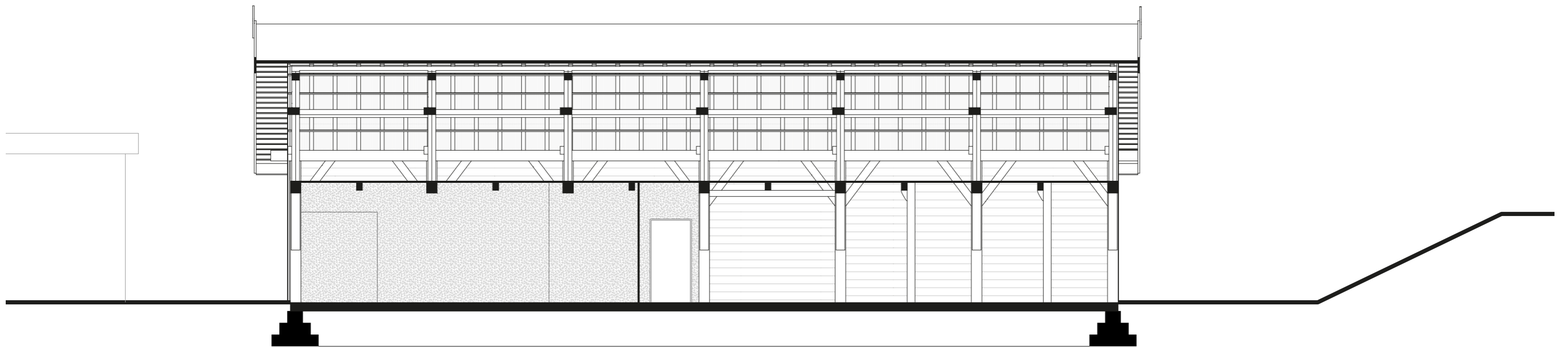


Figure 3.9 - Current section long

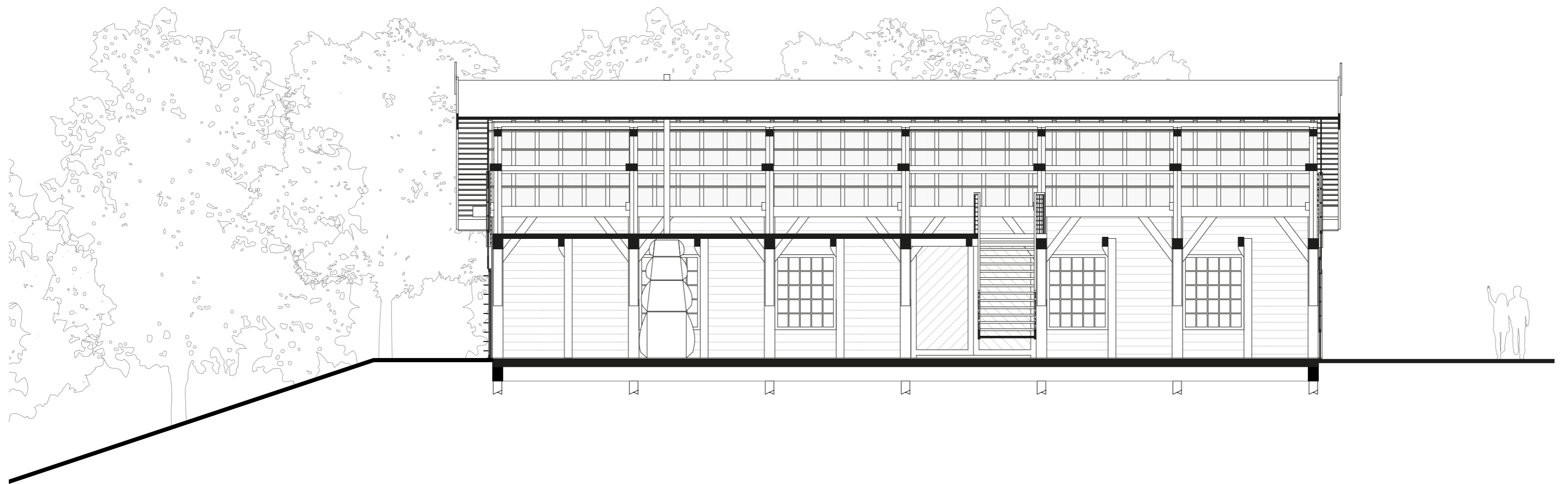


Figure 3.10 - Future section long

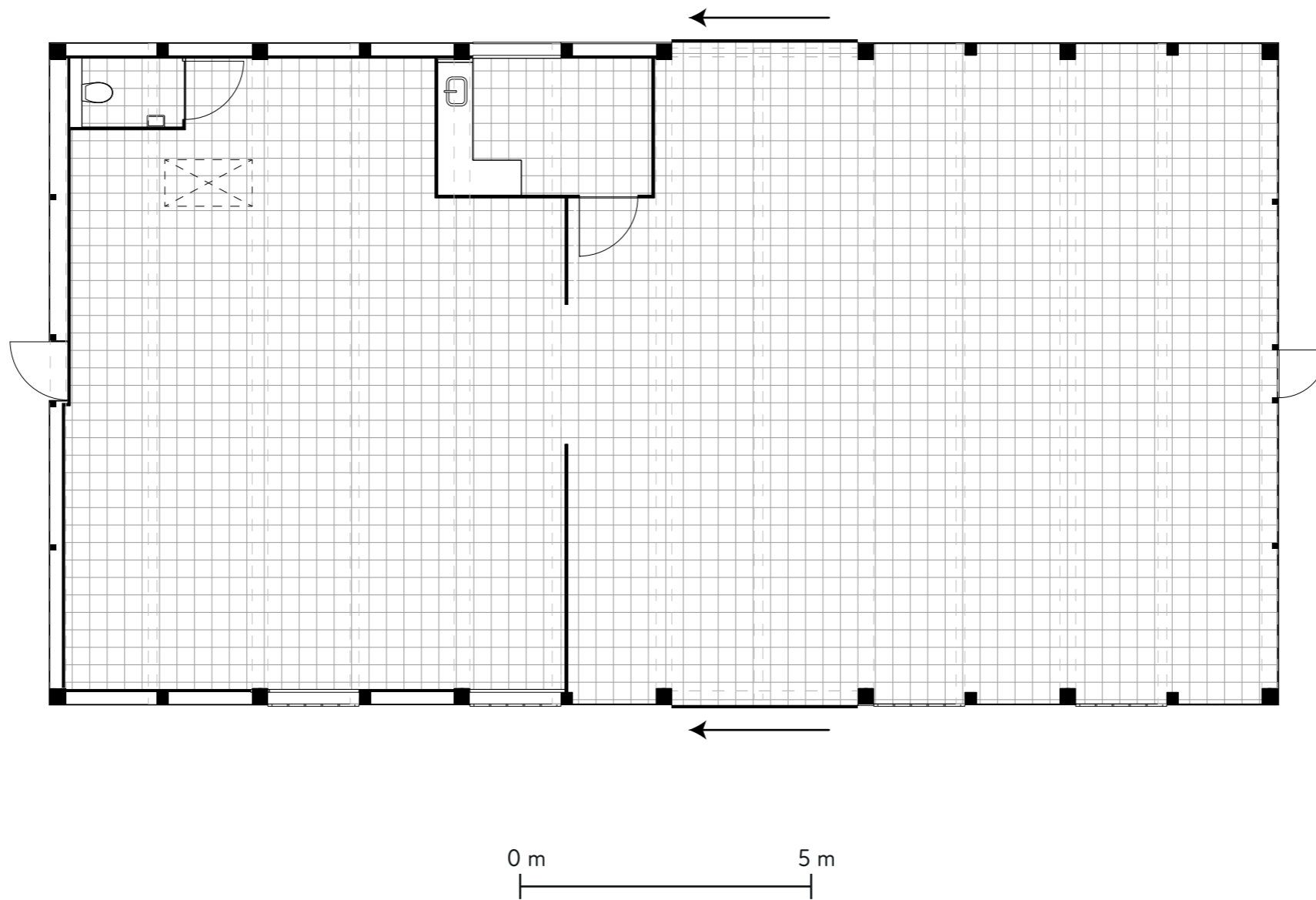


Figure 3.11 - Current floor plan of the ground floor

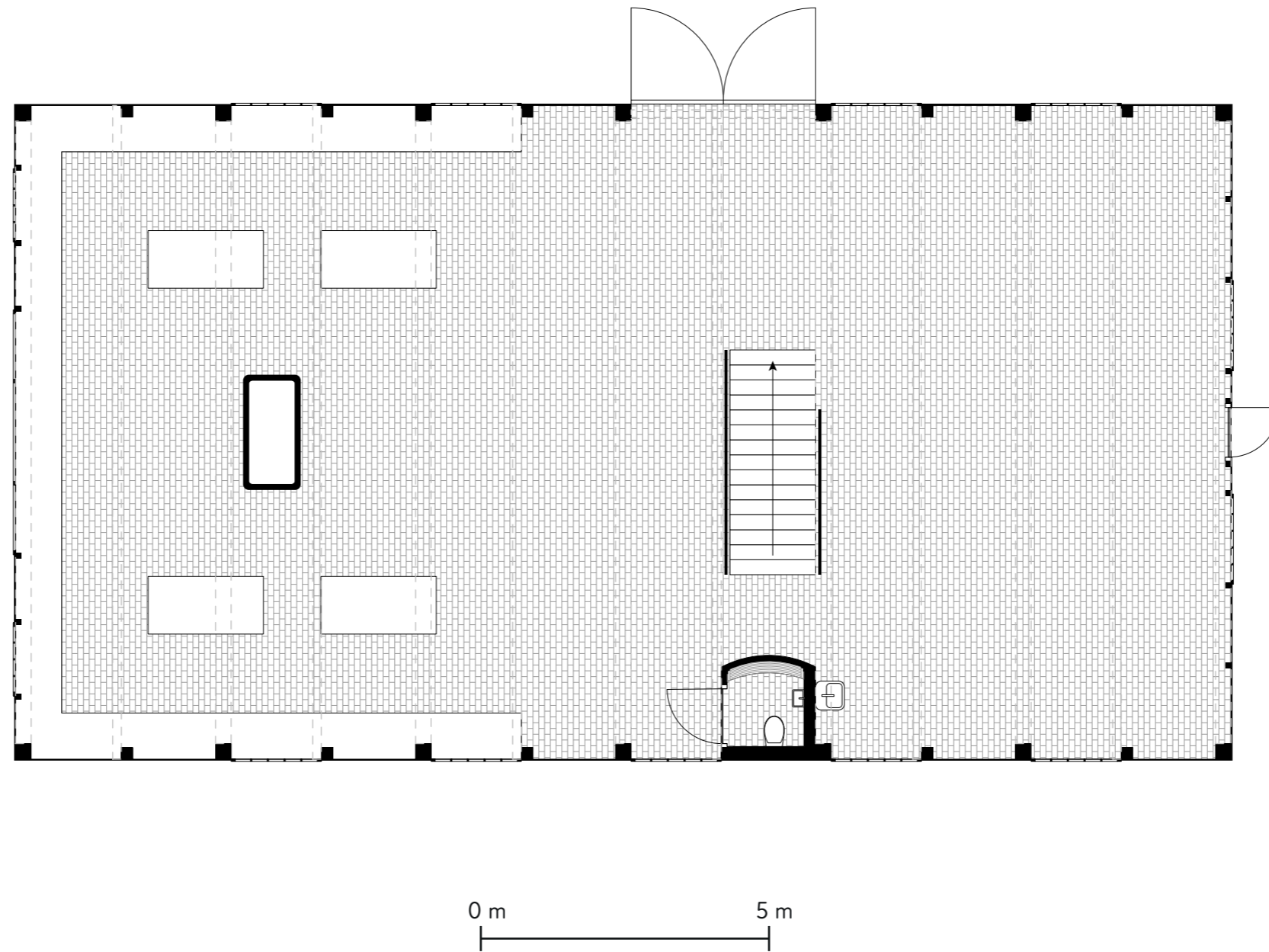


Figure 3.12 - Future floor plan of the ground floor

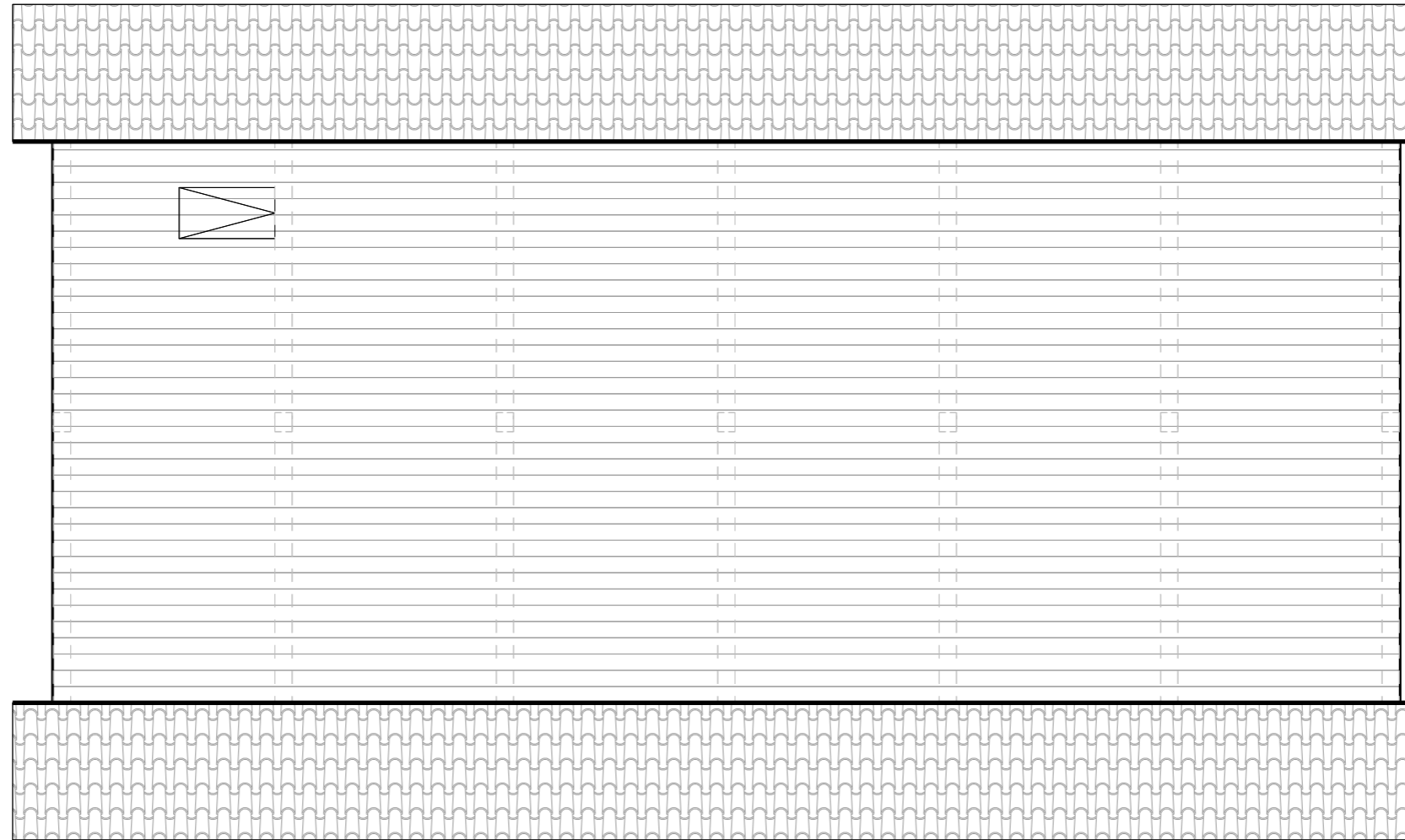
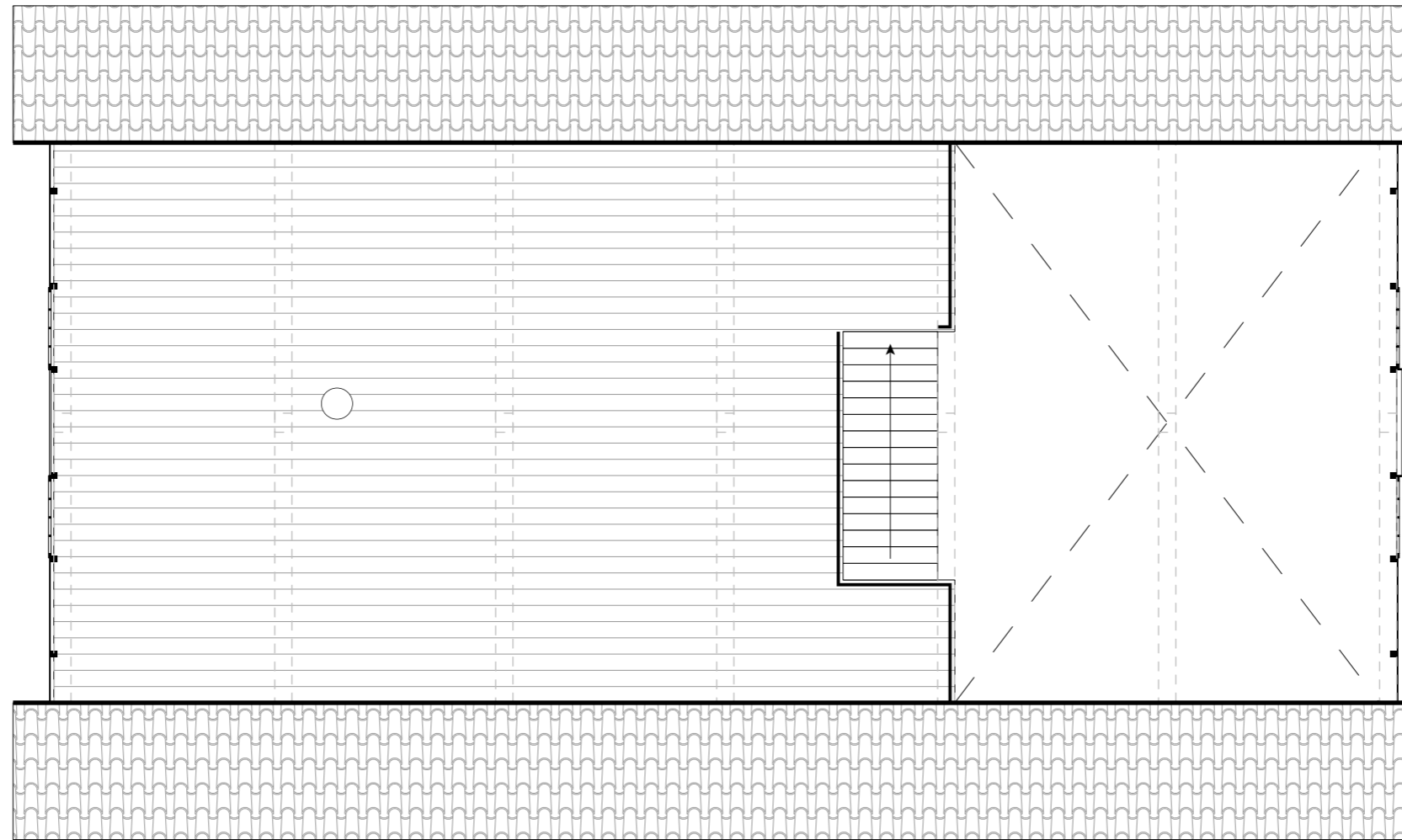


Figure 3.13 - Current floor plan of the attic



0 m 5 m

Figure 3.14 - Future floor plan of the attic

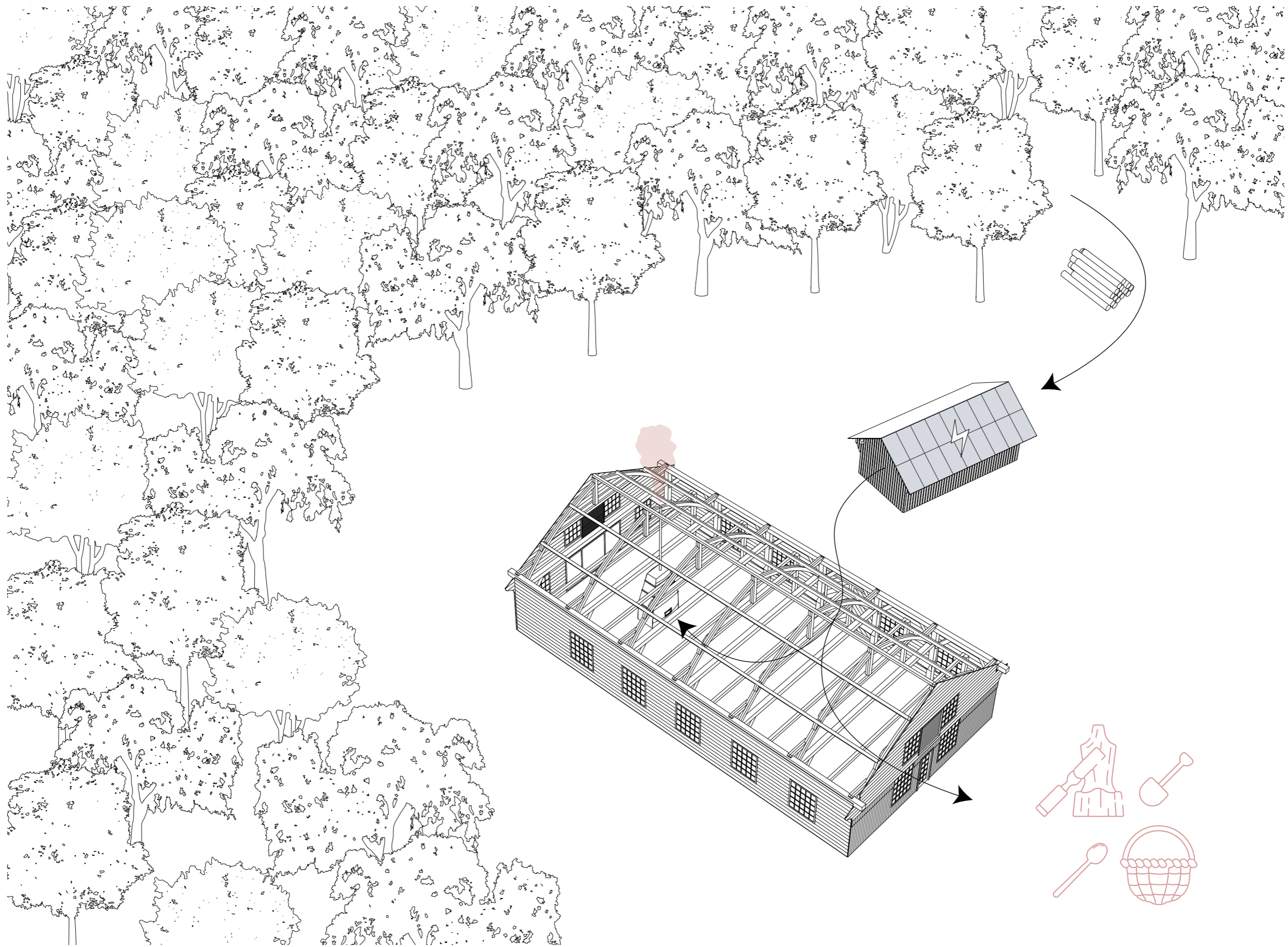


Figure 3.15 - Climate scheme: the Pot barn will form a micro-system together with the Elshout forest

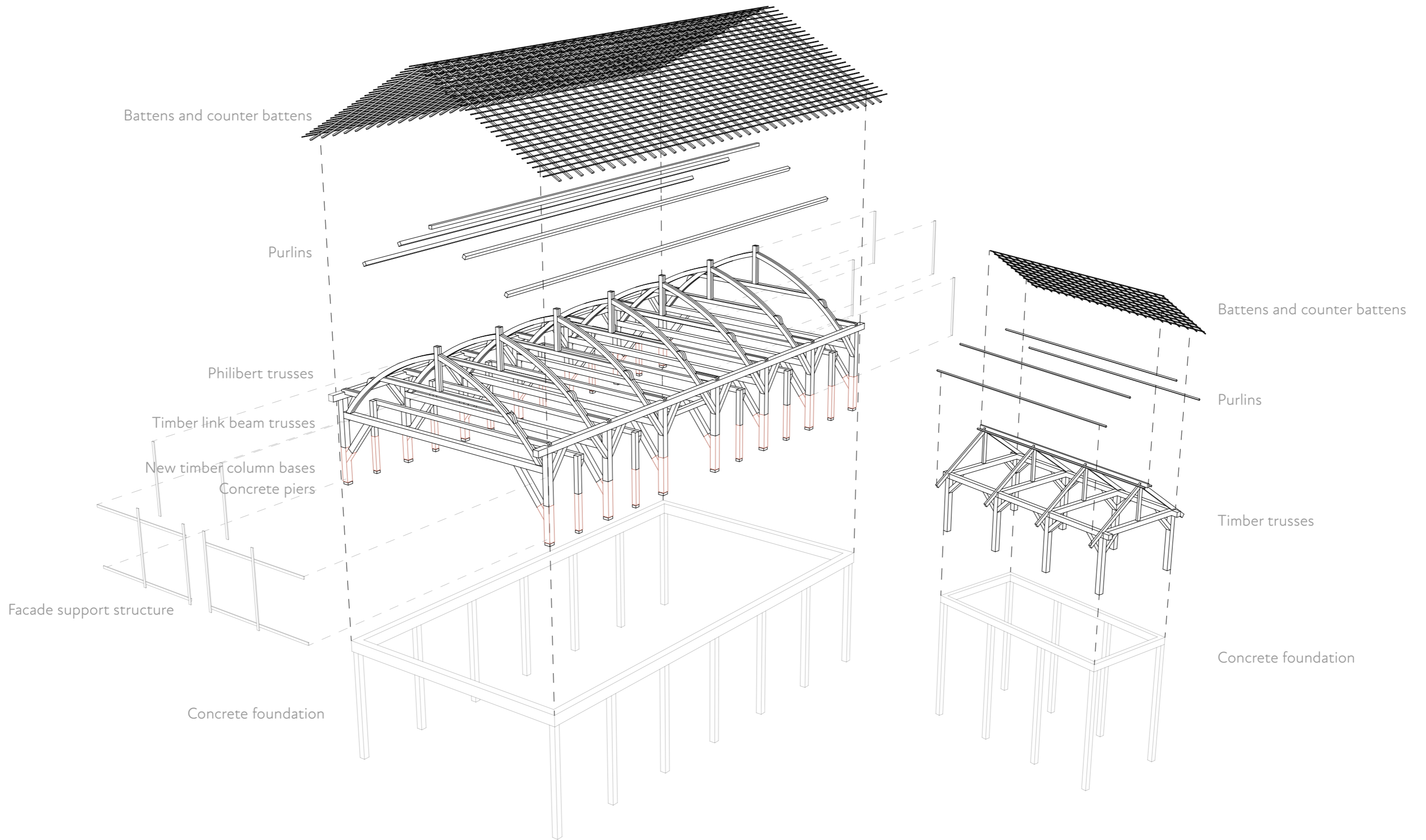


Figure 3.16 - Structure of the Pot and storage barn



Figure 3.17 - The Pot barn as viewed from the Elshout forest



Figure 3.18 - The Pot barn viewed from the dike



Figure 3.19 - The interior of the Pot barn

Figures

Figure 3.4 – Added elements refer to previous practices in the barn. Picture of repairing sluice gates: Deelen, J. W., Janse, G., De Jong, A., & Van der Wulp, A. (2002). *Nieuw-Lekkerlandse winkels en bedrijven in vroeger jaren*. Stichting Publicaties West-Alblasserwaard.

Figure 3.4 – Added elements refer to previous practices in the barn. Painting of ship and Pot barns: Weissenbruch, J. (n.d.). A painting of the Pot shipyard as seen from the sluices of 't Elshout in the 19th century [Painting]. https://www.haarlemsdagblad.nl/cnt/dmf20181019_26464770?utm_source=google&utm_medium=organic

Figure 3.4 – Added elements refer to previous practices in the barn. Picture of windmill blade: Jade. (2015). [Photograph]. <https://www.jadescapades.com/kinderdijk/>

Figure 3.4 – Added elements refer to previous practices in the barn. Painting of ship with sails. Unknown author. (n.d.). [Painting]. <https://werf-gusto.com/bouwlijst-de-nijverheid/>