

DESIGN STUDIO EFLER

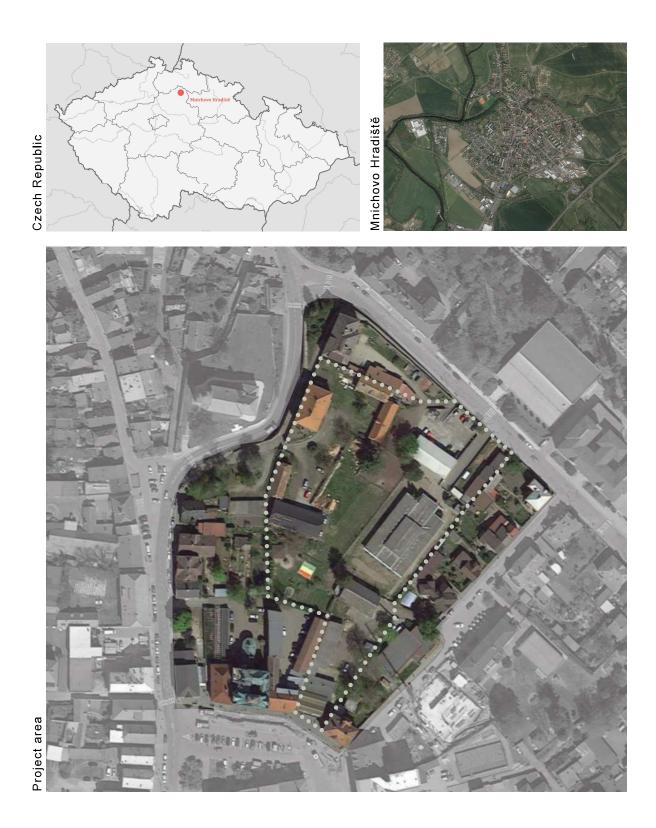
DEPARTMENT OF ARCHITECTURAL CONSERVATION FA CTU IN PRAGUE

CHANTAL PLANTÖR, GERMANY / LOUIS LE BRETTON, FRANCE CONNECTING AN URBAN FARM WITH THE TOWN SQUARE / EDUCATION MNICHOVO HRADIŠTĚ - CENTER REGENERATION WINTER SEMESTER 2022/23

STRUCTURE



. general location





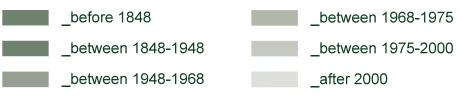








HISTORICAL MAP







URBAN FARM

how to revitalize a historical city center?

Located in the historical city center of Mnichovo Hradiste, our intervention's aim was to preserve the urban coherence of this zone. As the edges are mainly

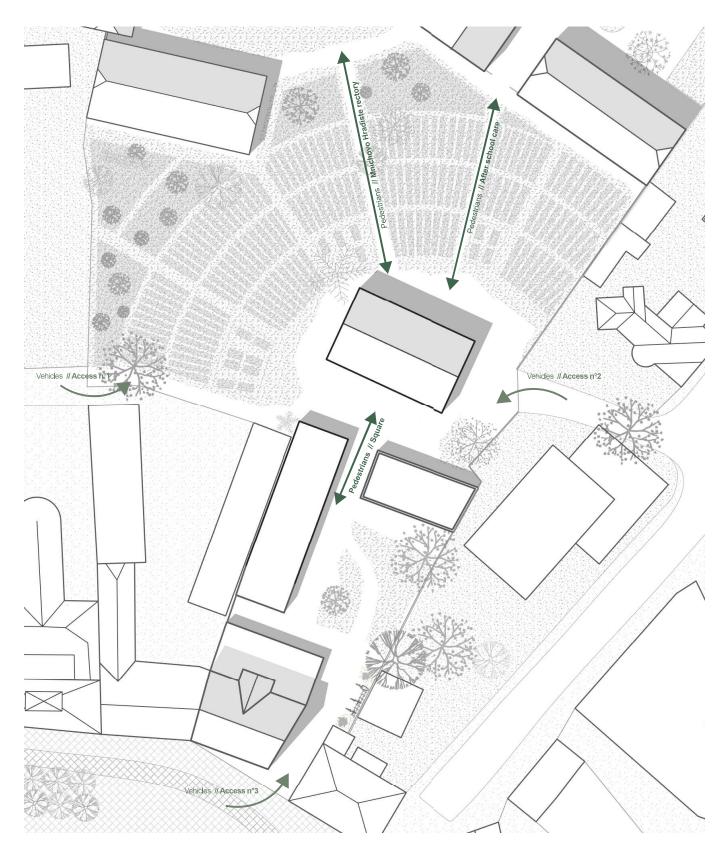
occupied by high and historical buildings, our intervention attempts to bring a new breath to the area by creating an contemporary urban farm in its core.

As a former barn was located in the center of the plot, we decided to shed lights on its vernacular architecture.

Thus, we restore it in a conservative way and bring it back to its initial function of agricultural building.

Cornerstone of the project, this urban farm connects so numerous actors of the area, and particularly the new after school care and the main square area.

2. urban concept



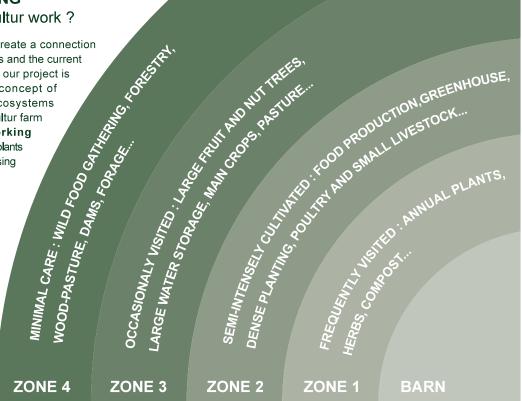
URBAN FIELDS PLAN

How to connect city actors around a farm?

FIELDS FUNCTIONNING

How does the permacultur work?

As our urban farm aim is to recreate a connection between former agricultural fields and the current Mnichovo Hradiste inhabitants, our project is based on the contemporary concept of **permacultur** based on the ecosystems functionning. Thus, our permacultur farm creates **differents zones working together in symbiosis** to increase plants productivity without any biocide using and any industrial machine.



FIELDS PRODUCTION

According to the year

Veek 2

/eek1

Veek 3

eek 4

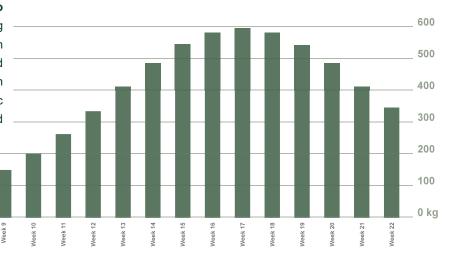
In order to understand the needs of our food production and storage, it was **important to modelize the fields productivity** all along the year. Based on the experience of Julien Leray, a french civil engineer who launched a crowdfounded project in 2018 to design a permacultur project with his scientific backround, we finally determined that our food production should reach 6,5 tons a year.

Veek 5

Veek 6

Veek 7

Veek 8



STORAGE FUNCTIONNING

How to design food storage?

As our urban farm will produce tons of vegetables a year, it was nescessary to design a storage system which fits perfectly with the farm production. Our research drove us to imagine three different storage spaces in the café basement.

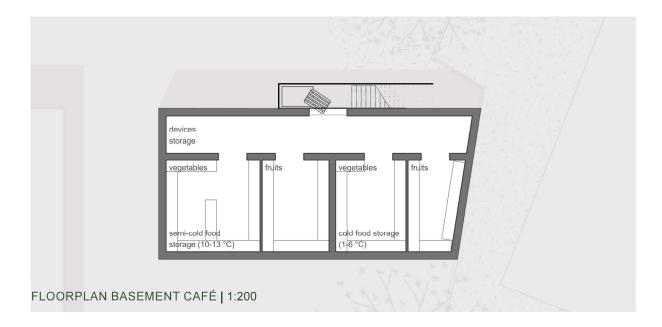
STORAGE SPACE N°1 | 14 - 18°C

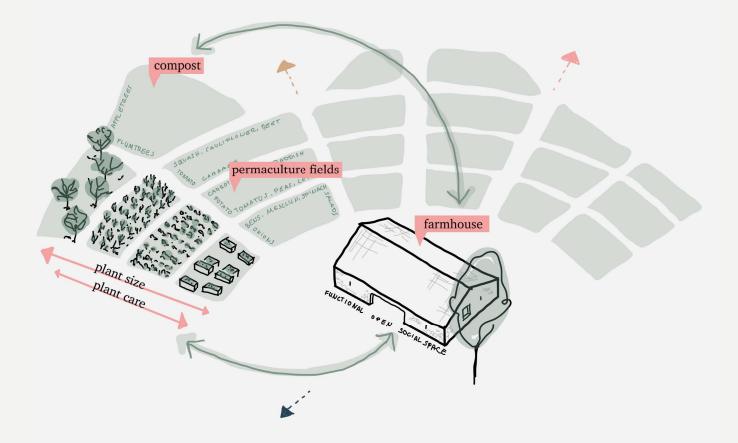
Tomato: 280 kg

STORAGE SPACE N°2 | 8 - 13°C



STORAGE SPACE N°3 | 0 - 7°C Apple : 180 kg Beet and carrot : 600 kg Cauliflower and cabbage : 420 kg Pear : 120 kg Plum : 120 kg New potato : 310 kg





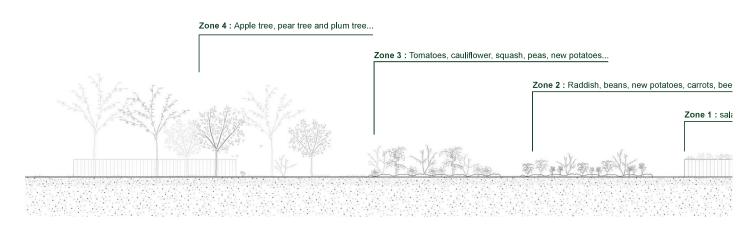


DESIGN CONCEPT

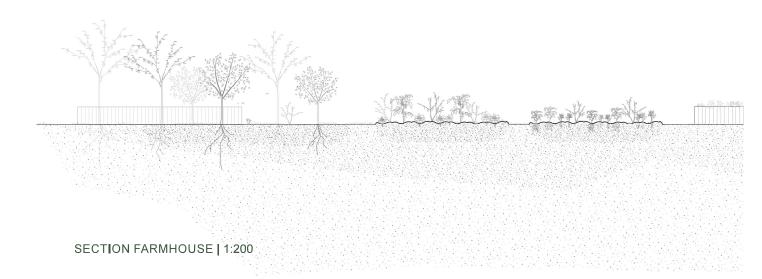


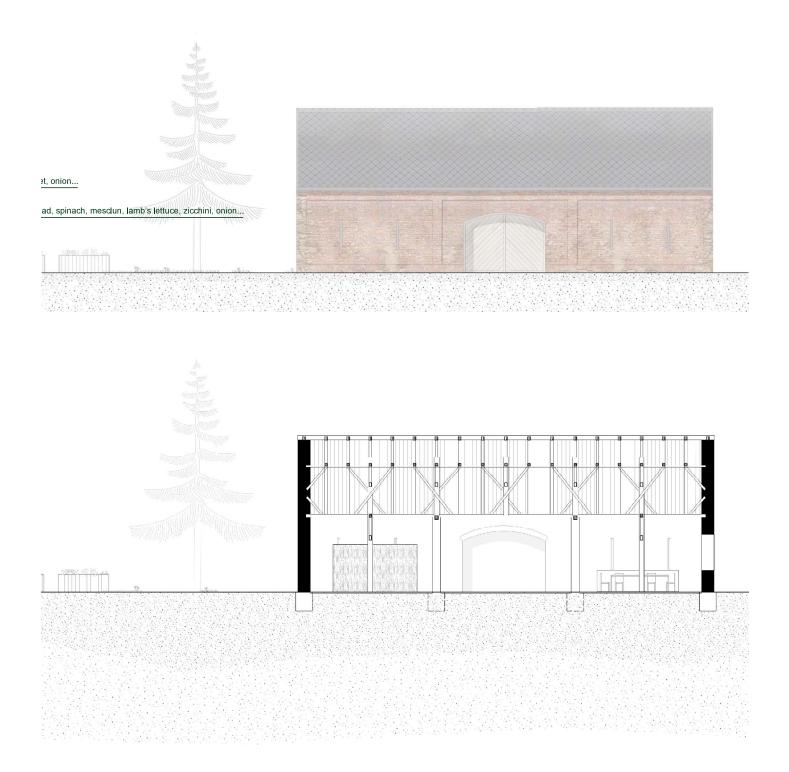
URBAN FARM

How to apply permacultur principles in Mnichovo Hradiste ?

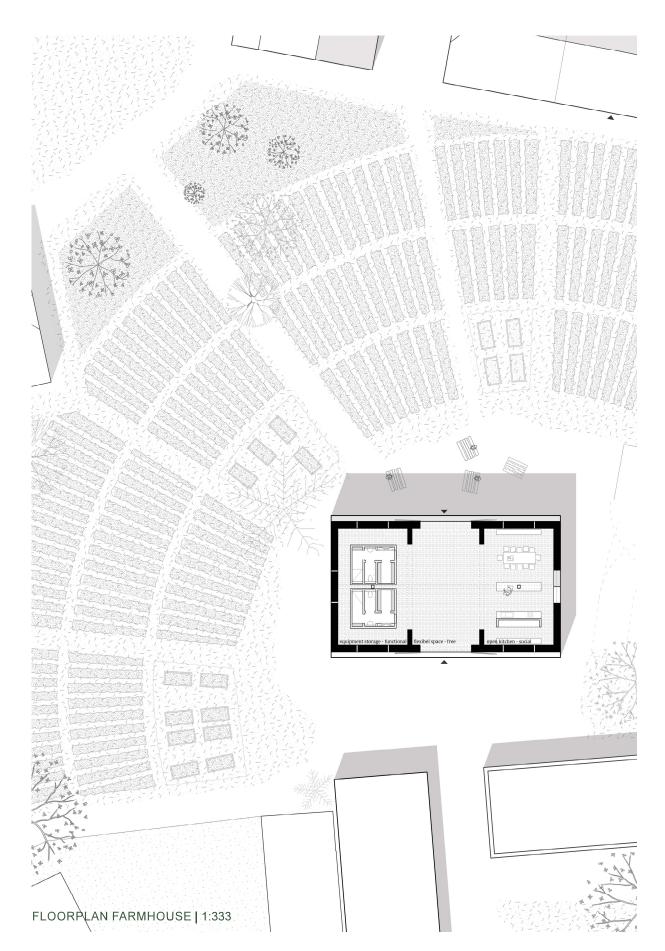


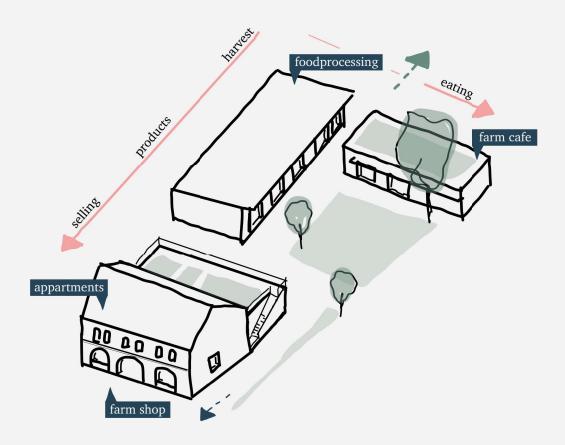
ELEVATION FARMHOUSE | 1:200





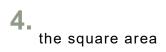
3. the farm

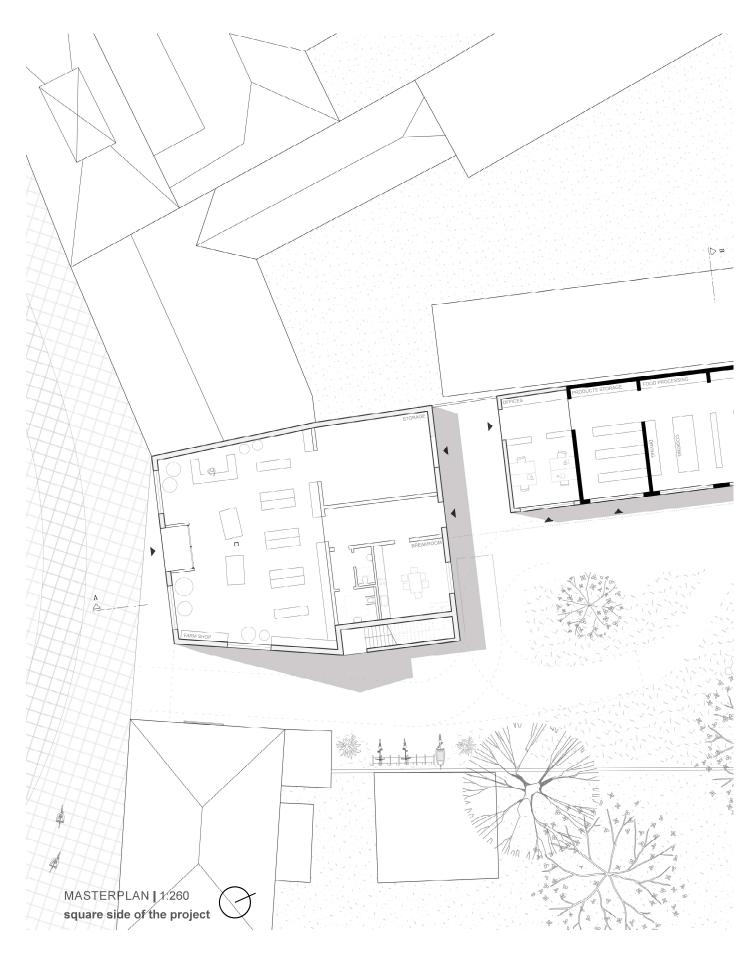


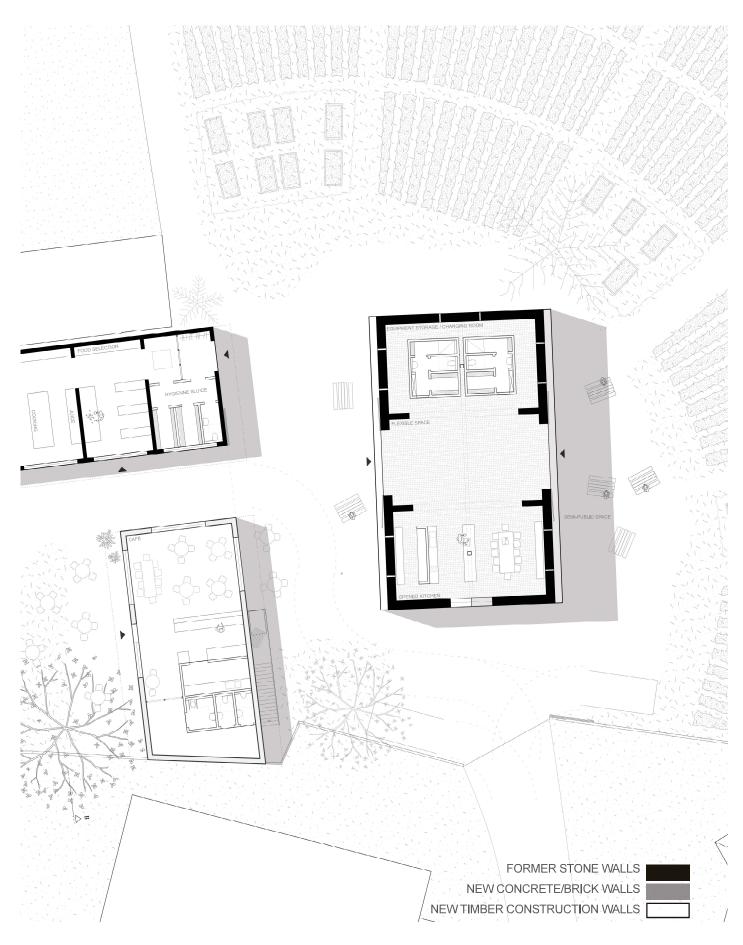


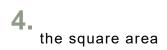


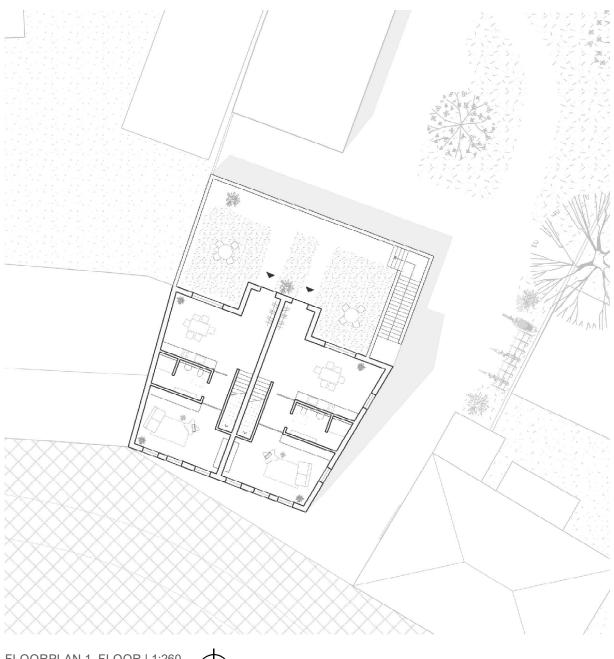
DESIGN CONCEPT



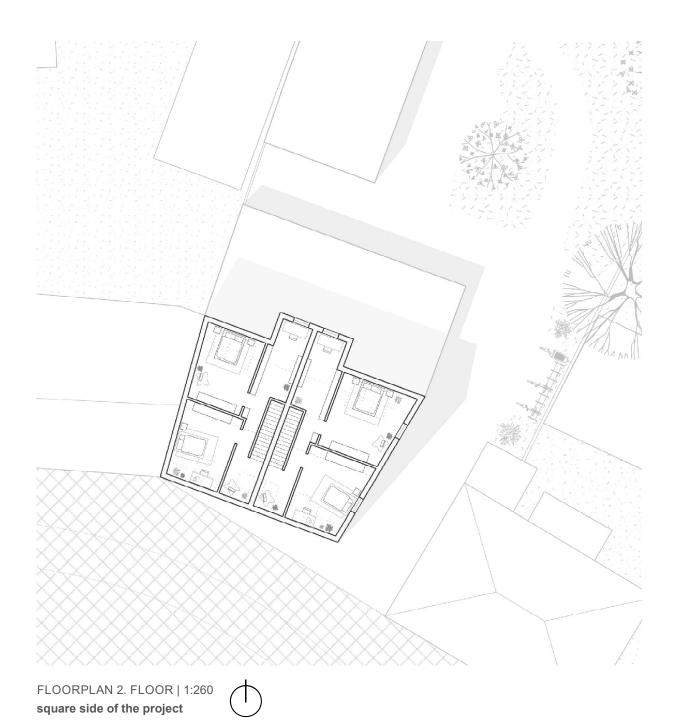


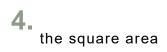






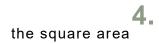
FLOORPLAN 1. FLOOR | 1:260 square side of the project

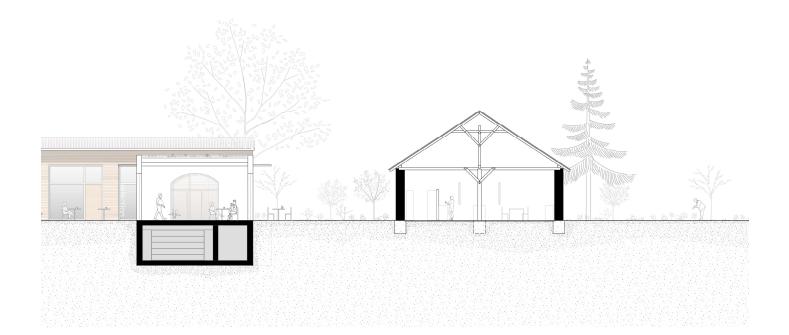




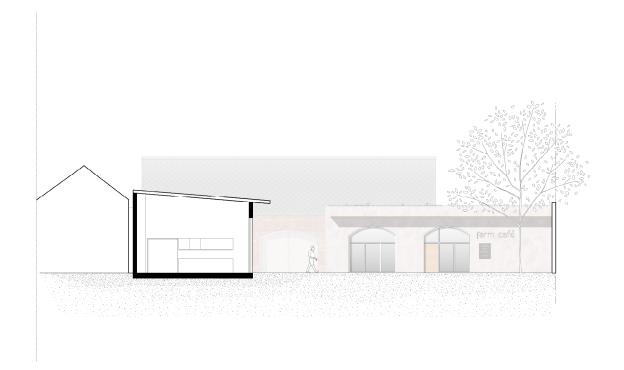


SECTION AA' | 1:260 square side of the project





4. the square area

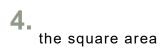


SECTION BB' | 1:260 square side of the project

4. the square area



ELEVATION SOUTH | 1:260 square side of the project



SQUARE BUILDING residential house & farm shop

FOODPROCESSING BUILDING treatment of farm products preparation for the café and the shop

CAFÉ

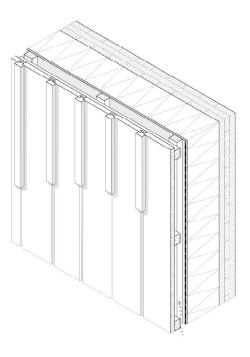
degustation of farm products & meeting place for the neighbourhood, tourists and workers



FACADE CHARACTER | 1:100

WALL CONSTRUCTION

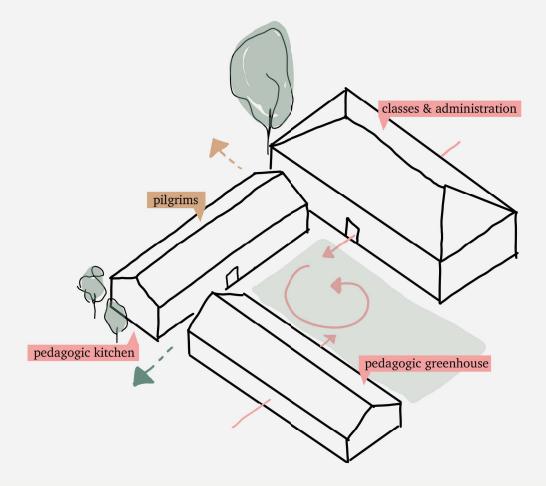
3-layer solid wood panel Insulation Gypsum fibreboard Diffusion-open foil Battens & rear ventilation Counter-battening Wooden boarding, light grey glazed Wooden battens, light grey glazed





FACADE DETAIL | 1:20







DESIGN CONCEPT

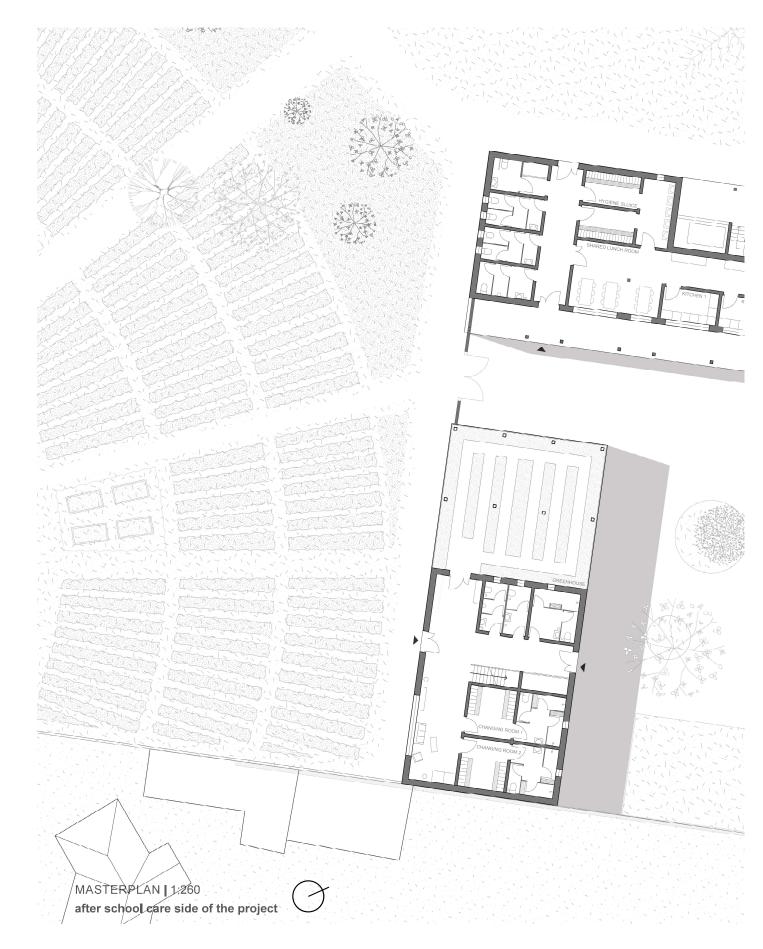
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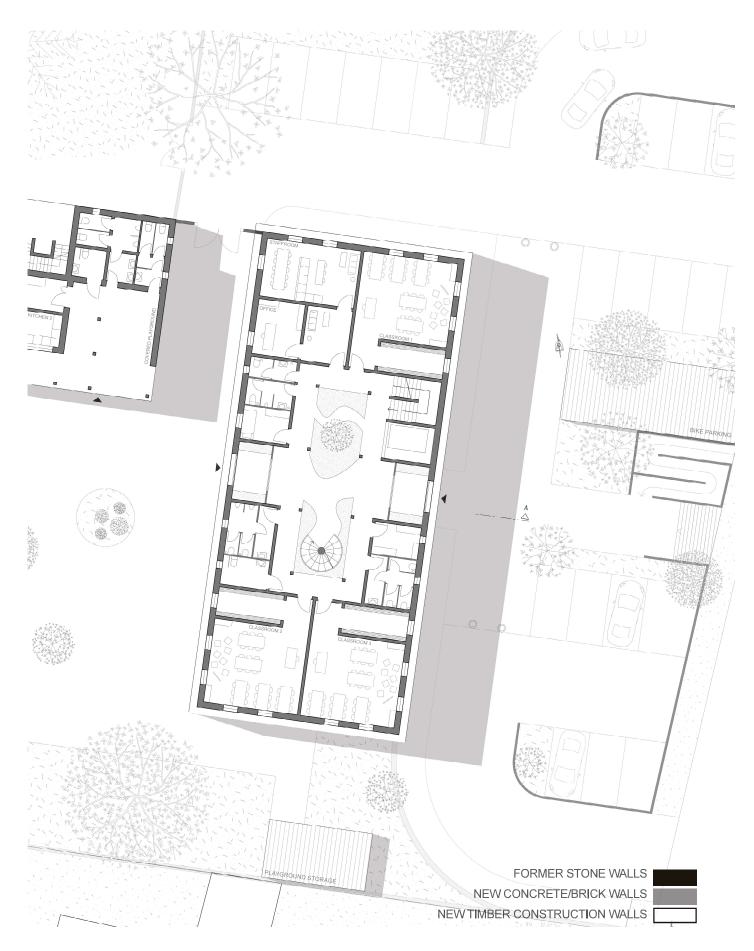
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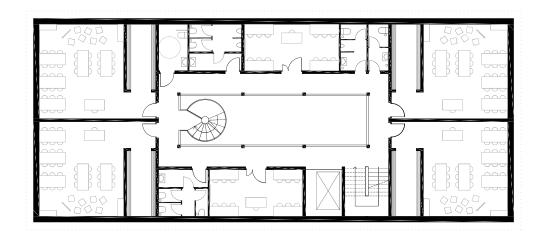
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5. the after school care area

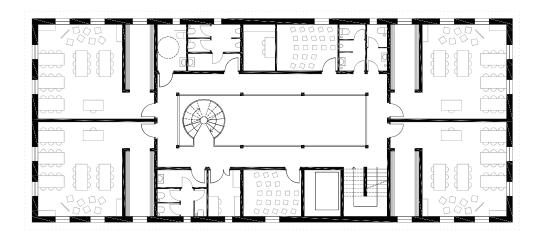


the after school care area



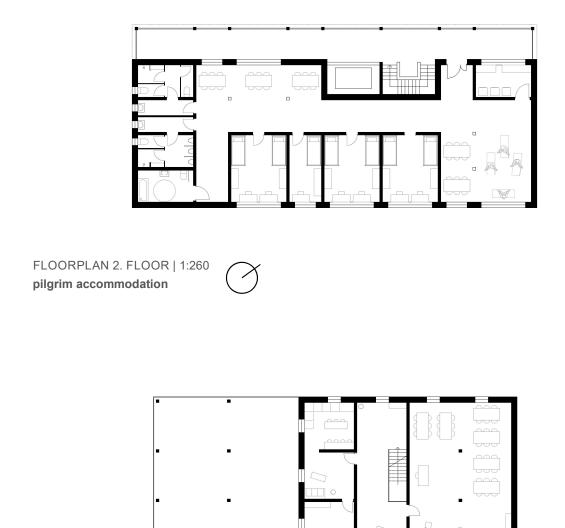


FLOORPLAN 2. FLOOR | 1:260



FLOORPLAN 1. FLOOR | 1:260 after school care



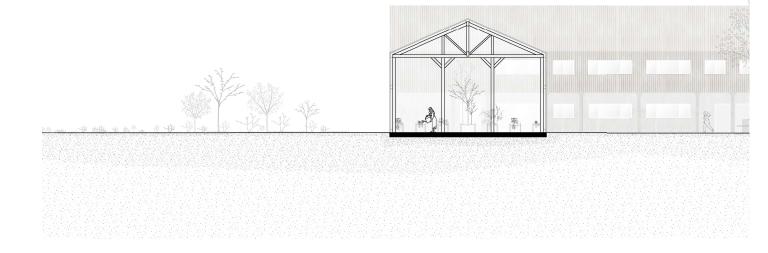


FLOORPLAN 2. FLOOR | 1:260 educational greenhouse



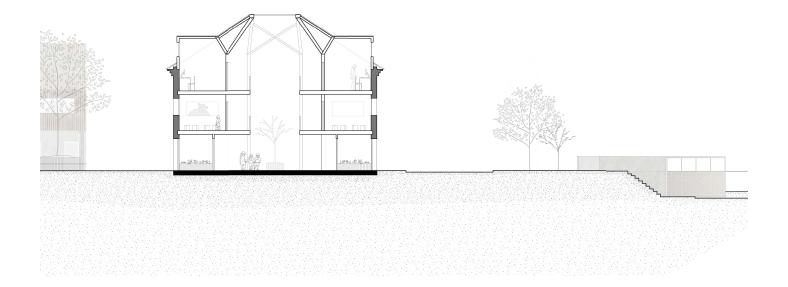
5.

the after school care area



SECTION AA' | 1:260 after school care side of the project

the after school care area



5. the after school care area



SECTION BB' | 1:260 square side of the project

the after school care area

PEDAGOGICAL GREEHOUSE Classroom for mediation Children adapted greenhouse

AFTER SCHOOL CARE Accomodations for farm volunteers Kitchen workshops for children

AFTER SCHOOL CARE Classrooms and computer rooms & Projection rooms



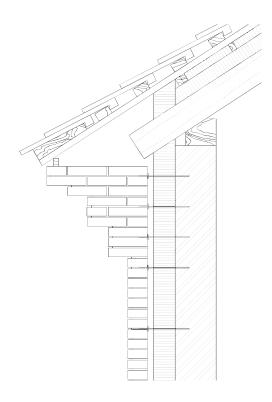
FACADE CHARACTER | 1:100

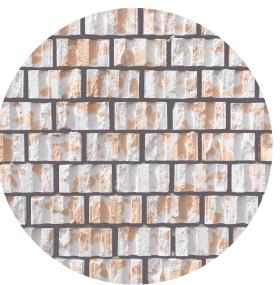
WALL CONSTRUCTION

hand-broken bricks air chamber thermal insulation brick wall white plaster finish

WALL CONSTRUCTION

2 layers solid wood panel air chamber thermal insulation concrete wall white plaster finish





FACADE DETAILS | 1:20

