

Brief



Ballenberg, Open Air Museum

Reuse & upcycling, zero-waste initiatives, repair and second-hand movements are now part of the political program of an evolving change in the sustainable use of resources and buildings. The study of our architectural heritage in the Alpine region, however, shows that such concepts are not new - they have just been forgotten. Necessity and scarcity have always forced sustainability through improvisation and creativity.

The task for the coming semester is the survey, digital disassembly and inventory of a historic knit building in Eschen FL. Object and inventory thereby form the material and planning basis for solutions for the preservation, reuse or further use of these resources. The idea of a concise architectural work as a repaired, translocated or newly assembled and inhabited warehouse of building elements, characterized by tectonic clarity and great atmospheric density, is the goal of the studio.

Seminar week: Alpine Timber Architecture

Berner Oberland & Graubünden: Caminada, Capaul & Blumenthal, Clavuot, Olgiate, Zumthor

Lecturers: Patrik Birrer (Guided visit on site; regional and architectural history); N.N. (monitoring, building survey, digital support); Stephan Zimmerli (Atmosphere & Presentation); Ramun Capaul & Gordian Blumenthal (Lecture during seminar week, Midterm and Final Crits)

Entrepôt Building # The House as Inventory & Construction Kit # From Inventory to Re-Design
Principles of relocation, storage and reuse of a historical log house construction

Organisation

Semester program WS2023

13.09.2023
14:00, Atelier

Semester start

welcome & intro,
formation of groups and distribution of work

PHASE I – BUILDING SURVEY

13.09.2023
02-04.10.2023

I.1 Kick-off “Building Survey”
I.2 Seminar Week “Alpine Timber Architecture” -
presentaion of buildings
I.3 Presentation “Building Survey”

11.10.2023

PHASE II – DESIGN

11.10.2023
25.10.2023
13.12.2023

II.1 Presentation “First Intentions”
II.2 Midterm Review with Ramun Capaul
II.3 Final Review with Ramun Capaul

**The projects are presented as PowerPoint
presentations on the TV screen in front of the
printed AND pinned-up posters and physical
models.**



PHASE I – ANALYSIS

I.1 BUILDING SURVEY

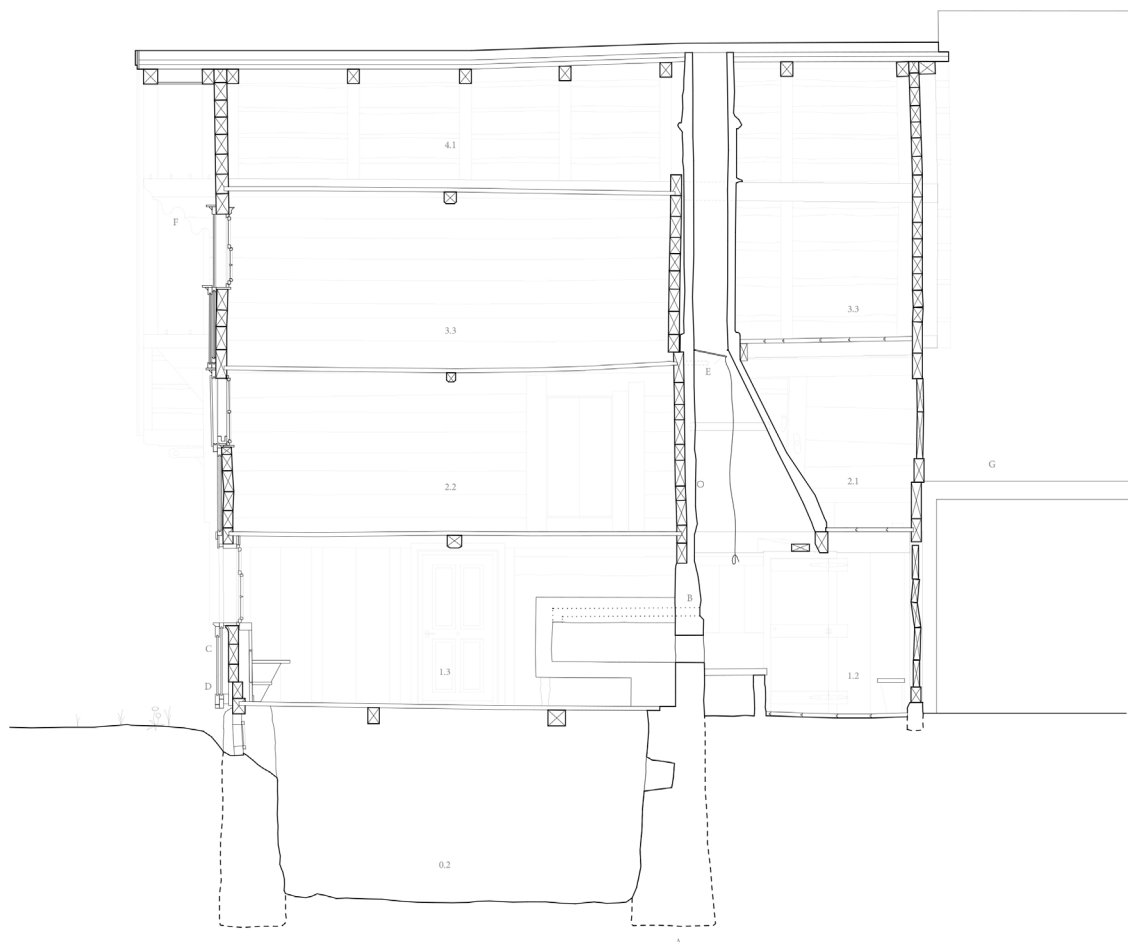
Support by Raimund Rhomberg.

13./14. September: Getting to know the building and surveying and drawing details (windows, doors, joints etc.) 1:5, 1:2, 1:1.

20./21.09. September: Deformation-compliant digital survey. Support by tachymetry. The plans are plotted in size (118.9 x 594 mm) in scale 1:33 to create a base that is completed by hand.

27./28. September: Finalizing plans.
4 floor plans, 1 longitudinal section, 2 cross sections, 1 main elevation

from 05. October: damage documentation, inventory



All analysis documents are presented physically and digitally on moodle.
Documents for table critiques are uploaded weekly on moodle.

The files are put in a folder with the following name:

Nr. hand-in_exercise title_groupX (eg: A3_site analysis_A)

The files are named according to the folders:

Nr. hand-in_exercise title_groupX_document title
(eg: A3_site analysis_A_axonometry)

For individual works:

Nr. hand-in_exercise title_groupX_surname name_document title
(eg: A3_site analysis_A_Dupont Jean_axonometry)

When not indicated otherwise:

- drawings are saved as high resolution PDF with a resolution of 300dpi
- images are saved as JPG with a resolution of 300dpi (no PSD, TIFF etc.)

I.2 Seminar Week “Alpine Timber Architecture”

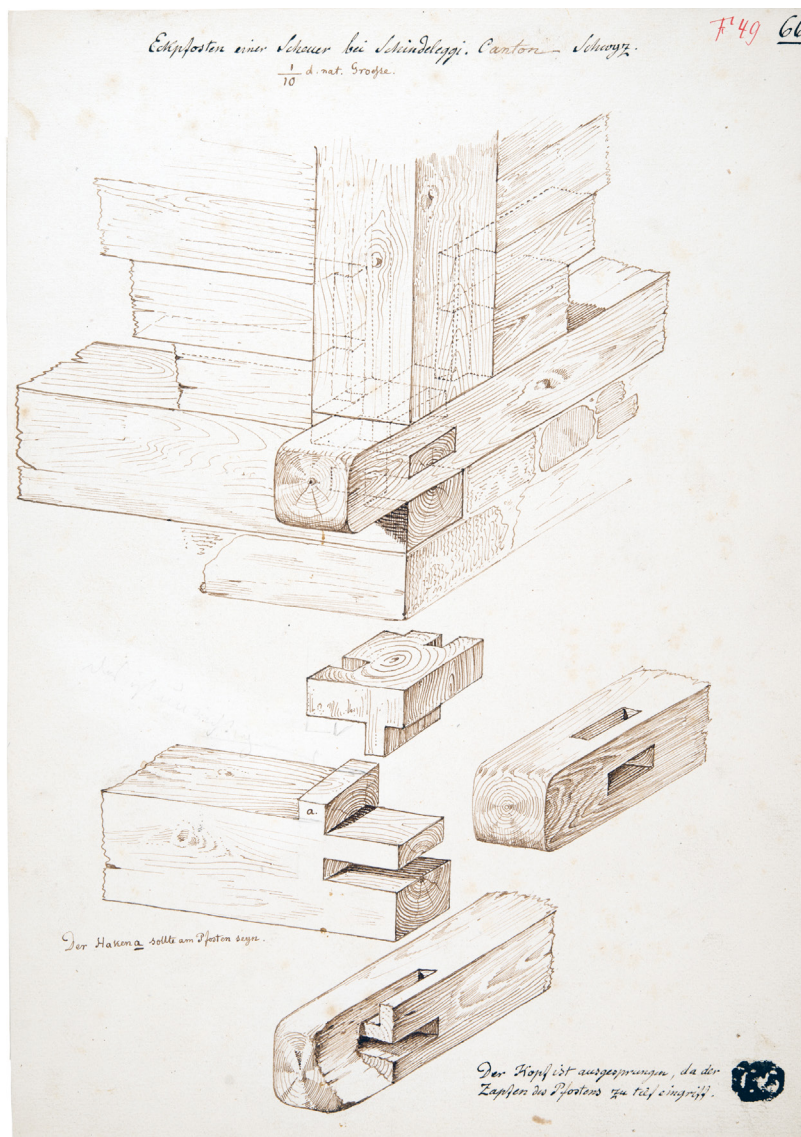
Start: Monday, 02.10.2023, 10 Uhr, Ballenberg Ost (3856 Brienzwiler)
End: Wednesday, 04.10.2023, end of day in Chur

Costs: around 400 CHF

Bring: sketchbook, folding chairs (UniLi or other), drawing utensils

Selected buildings and constructive details are sketched. The sketches are to be included in the semester portfolio.

The sketchbook is scanned until the end of the seminar week and uploaded to moodle.



II.1 – Design Synthesis

In the Design Phase two types of different approaches will be explored. We agree on the strategies at the start of the Design Phase and each group will have a fix objective. Within the strategies, the implied freedom and constraints are to be fully explored.

01. Repair & Monument Preservation Plus (4 groups)

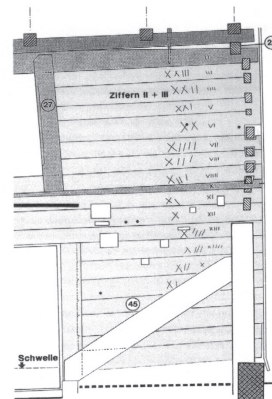
on original or new site

Programme: residential building
Structural repair, e.g. replacement of rotten beams.
Replacement or retrofitting of windows. Etc.
Adaptation of spaces, spatial configuration, room heights to contemporary standards.

02. Partial Translocation & Re-use (4 groups)

on new site

Programme: youth center
Rearrangement of the inventory on a new site to create a new building.



Critiques

II.2 – Midterm Review

October 25, 2023 Requirements

The results of **Phase I (Analysis)** are pinned up and are part of the review.

Layout:

All plans, illustrations and visualizations are to be presented on min. 6 **horizontal** A0 sheets. The number and layout of the sheets is adapted to the individual project.

Color code for architectonic drawings: black and grey.

Color code for construction drawings:

Demolition: **yellow**; new: **red**; reuse elements: **green**; repair: **blue**;

vegetation: **grey**

- **Space and atmosphere**: Images are shown in A1 size.

- One A0 is dedicated to **structure**, explaining structural principles, connections, constructive details of relevant joints.

- At least one A0 is dedicated to **construction**. A constructive section is next to the elevation, as in competition drawings.

a) 1:500 site plan (Schwarzplan)

always including the site and its surroundings

b) 1:100 site model

c) 1:33 floor plans, sections, elevations, *always including context!*

d) 1:33 Working model, fragment

e) 1:5 details, if relevant

f) Visualization (A1), interior or exterior

The image is created by means of the working model 1:33 (e) that is photographed. It is imperative that you only build the strictly necessary.

II.3 – Final Review

December 13, 2023 Requirements

a) 1:500 site plan (Schwarzplan)

always including the site and its surroundings

b) 1:100 site model

c) 1:33 floor plans, sections, elevations, *always including context!*

d) 1:33 Working model, fragment

e) 1:5 details, if relevant

g) min. 1 Exterior visualization (A1)

Showing relation to context. Photoshop collage.

h) min. 1 Interior visualization (A1)

showing light and spatial atmosphere. This atmospheric image will be moderated in a workshop with Stephan Zimmerli.

Layout:

All plans, illustrations and visualizations are to be presented on min. 8 A0 sheets.

