SEMESTER 2

OCCUPATION **Project 4**

Weeks 7 - 9 **OCCUPATION** 14%



Seelenkiste - Spirit Shelter Finding Arcadie / allergutendinge https://www.archdaily.com/627266/seelenkiste-spirit-shelter-finding-arcadie-allergutendinge

"Any new project is my dream project. No matter how small it is, it's a space for dreaming."

Kumo, Kenga. A Ground Breaking Architect,

https://www.sanctuaryniseko.com/design-blog/2016/3/16/whayfi3sujkg4lxpuh6dvk2scljjk0

"The details are not the details. These make the design."

small houses Whare Kiato - to be tightly packed, compact

"The tiny-house movement (also known as the small house movement)^[1] is an <u>architectural</u> and <u>social movement</u> that advocates for downsizing living spaces, simplifying, and essentially "living with less."^[2]"

https://en.wikipedia.org/wiki/Tiny-house_movement

flexibility Hangore - be flexible, not firmly fixed, yielding

flexible occupation can be architecturally accommodated using built in furniture which transforms, maximising the utility of a space

sustainability Toitūtanga - to be sustainable

"Sustainable architecture is architecture that seeks to minimize the negative environmental impact of buildings through improved efficiency and moderation in the use of materials, energy, development space and the ecosystem at large."

https://en.wikipedia.org/wiki/Sustainable architecture#cite note-1

ergonomics Nōhanga Hāneanea – nōhanga - habitat, seat, seating, dwelling place; hāneanea – to be pleasant, comfortable

is a science aimed at creating "safe, comfortable and productive workspaces by bringing human abilities and limitations into the design of a workspace, including the individual's body size, strength, skill, speed, sensory abilities (vision, hearing), and even attitudes."

https://www.ergonomics.com.au/

AIMS

- To conduct basic site analysis, recording boundaries and physical features, both natural and constructed
- To research and analyse a precedent, as inspiration for exploration, gathering information regarding spatial arrangement and dimensions
- To initiate a creative design process, developing a clear, conceptual design strategy
- To address a simple architectural brief designed for a specific activity
- To design a small architectural intervention on a physical site

METHOD

Each brief, during this year long course, adds to and builds on previous content. The following principles and strategies introduced thus far need to be applied to this brief, which is our first engagement with a specific programme and site:

- conceptual development
- mass, planar and linear elements 3D, 2D, 1D composition and the creation of space
- structure, form and inhabitation
- thresholds and apertures the body moving through space and at repose and the quality of light
- the privacy gradient gestures of public/private occupation
- materiality structural capacity of materials and connecting systems

You will design in detail a structure for **OCCUPATION**, on a real site.

Programme Brief for OCCUPATION – a description of requirements

Design a Small Structure for 1 or 2 people

The following 'activities' will be accommodated – sleeping, cooking, eating, washing

- provide a space for cooking and for eating
- provide a space for 1 or 2 people to sleep
- provide a place for bodily washing and toilet facilities
- provide some storage for materials and personal items

You are not designing an empty room to be filled with separate furniture. Storage and facilities should be integrated into the structure.

Constraints and considerations

Size of structure – the structure will be 48 cubic metres or less e.g. $4m \times 4m \times 3m = 48m3$ but also $1.5m \times 10m \times 3.2m = 48m3$

Conceptual idea

It is important to have a clear conceptual idea for your structure. The concept will direct your strategy for resolving the requirements of the chosen programme.

The privacy gradient

Consider carefully the public and private spectrum of the different activities accommodated in relation to interior spaces and external environments.

Thresholds and Circulation

Consider carefully, the point of entry and exit from the structure and the passage through and between the internal spaces.

How is circulation managed as you rise to different levels and pass through the structure. Are there different level changes? Are stairs steep? Is there a ladder?

Apertures - Light management is essential to the structure.

Consider carefully, the entry of natural light for resting, for reading or working. Is shading required? Is defused light necessary for specific activities? Is a view out important? Or is privacy fundamental to the OCCUPATION of the space?

There will be 2 openable windows for air circulation.

Materiality and structure

Using **no more than three materials** design in detail the structure and the arrangement of the interior spaces, including appropriate thresholds, apertures and built-in furniture. Do the walls thicken? Do materials change from the exterior to the interior? Your architecture must have **a plausible structural system**.

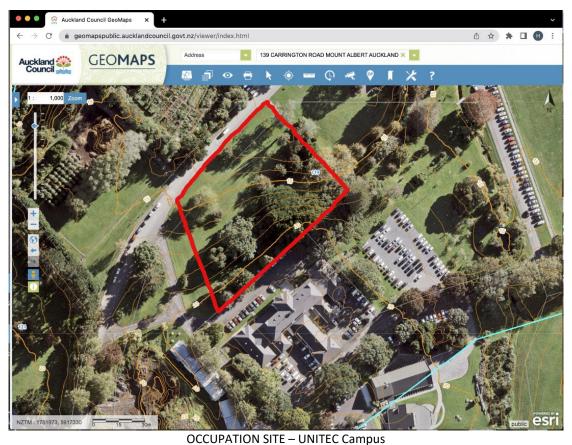
TASKS

1/ Select a site on the North-Western lawn in front of Building 48

Explore the site.

Select a specific location for your small 'OCCUPIED' structure.

The specific contour of the ground, orientation and location of trees on the site will relate to your chosen concept becoming important considerations in your design. These components will be clearly represented in your final project drawings.



Auckland Council GeoMaps. Accessed 15th September 2022. https://geomapspublic.aucklandcouncil.govt.nz/viewer/index.html

2/ Research and document a precedent

Following some research of existing small structure projects, select a precedent.

This could be a conventional 'tiny house', a yacht or caravan interior or a small apartment in Tokyo.

Reference correctly the designer and the source of information.

Analyse in your own words and diagrams the qualities, dimensions and strategies of the project.

3/ Design Process

Project development

Use sketches and sketch models to develop the arrangement of the programme of sleeping, cooking, eating and washing in the proposed structure.

Refer to the <u>Metric Handbook</u> to ensure the accuracy of your dimensions for comfortable sitting, lying, eating and washing places in your architecture.

The exploration of the privacy gradient of the programme will develop the circulation, thresholds and apertures.

A series of sketch models which explore iterations of the 3D,2D,1D qualities and materials may be useful.

2 or 3 sketches or images of models recording the design process work will be included in the presentation of the final project.

4/ Draw a location plan, architectural plan, section and elevation of your final design in context

Draw a location plan of the OCCUPATION structure at 1:500 scale, clearly indicating the context. This will include a north point, sun path, wind directions, trees size and shape, contours, pedestrian and vehicular paths and viewpoints (from the site and of the site)

Draw an architectural plan of your design at 1:20 scale.

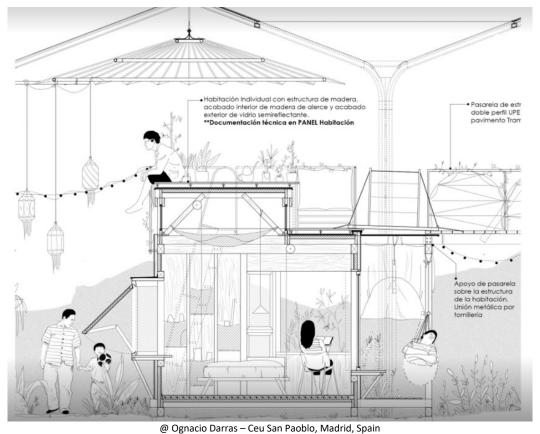
If there are a number of levels in the structure these must be represented clearly using standard drawing conventions.

Draw 1 section of your project at 1:20 scale, which clearly indicates the structural strategy, indicating the thickness and texture of proposed materials, circulation between spaces and relationship to ground. Some notion of foundation is required.

Draw an external elevation, at scale 1:20, which clearly illustrates the principal materials, apertures and relationship to ground and context.

NOTE: Select the section and elevation carefully to communicate the most information possible about the materiality, dimensions, and qualities of the spaces.

Figures in drawings are the most effective means to indicate scale and function. **All drawings MUST contain people.**



www.archdaily.com/912454/explore-the-potential-of-the-human-figure-in-architectural-representation

ASSESSMENT EVENT

Monday 2nd October 9:00am - 12:00pm

The pin up of your presentation MUST be completed by 9am.

This is the submission deadline.

Following pin up every student will verbally present their work in person to the group.

If for any reason you are unable to pin up and present your work on this occasion you can make an application for an Assessment Concession (AC).

If you pin up late during the morning of the presentation, a half grade point will be deducted from the assigned grade.

NOTE: Digital hand-in of the work presented is to be uploaded to the Occupation Hand-In Folder, by 4pm Tuesday 3rd October

The Digital Submission MUST include a photograph of the work pinned up in studio and a carefully composed document of each of the deliverables, drawings, photos and models.

OCCUPATION DELIVERABLES

- 1 selected, correctly referenced, precedent study with analysis		15%
- 2/3 design process sketches/model/images		15%
 1 x location plan 1 x architectural plan 1 x section - through entrance threshold into space 1 x exterior elevation 	Scale 1:500 Scale 1:20 Scale 1:20 Scale 1:20	55%
- Integrated well composed pinup of work + participation verbal presentation of project		15%

All drawings should be correctly annotated and labelled, clearly indicating North point, section lines, elevation titles, together with dimensions. Materials and spatial qualities should be shown using shading and texture competently.

Drawings MUST contain human figures to show clearly the OCCUPATION and scale.

GRADING CRITERIA

(Associated Learning Outcomes 1,2,3,5 – see Studio Introduction on Moodle page)

- Correctly referenced and clearly analysed precedent study
- Well-conceived and communicated Design Strategy and Design Development, including process work
- Clear, well-drawn plans, section and elevation, with clear graphic theme that can be read from 4m away in a crit.
- Good use of line weights and shading to add depth and modelling to the drawings, indicating material substance and qualities
- Plan and sections show clearly principal thresholds
- Effective, integrated pin-up + participation, with verbal presentation of work, communicating coherently the content and intentions of the design

RESULTS

A (100 - 80%), **B** (79 - 65%), **C** (64 - 50%), **D** (49 - 40%), **E** (39 - 0%)

Student feedback by arrangement with tutor during Week 10.