

The growing library



A collection of knowledge

The library collection

- printed
- digital
- people, speech
- living
- non-living
- processes
- materials

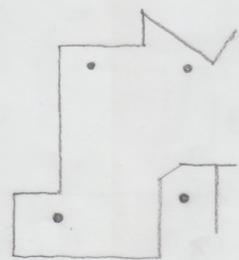


CONCEPT DIAGRAMS

The growing library

The growing programme

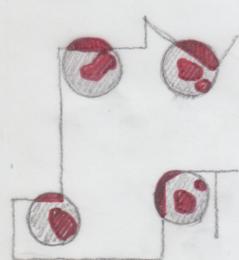
0-10 y



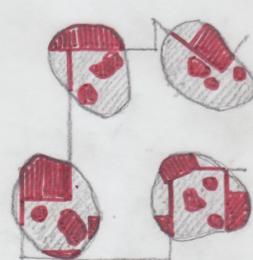
10-20 y



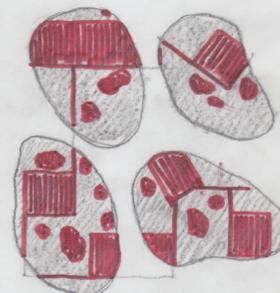
20-30 y



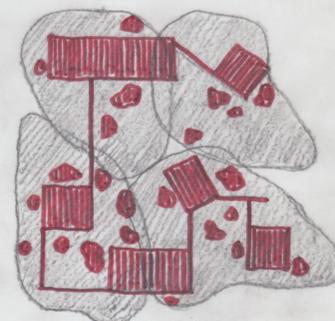
30-40 y



40-50 y



50-60 y



60-100 y



1:1000 PLAN

▨ canopy coverage

■ programme footprint

— spine

outdoor spaces

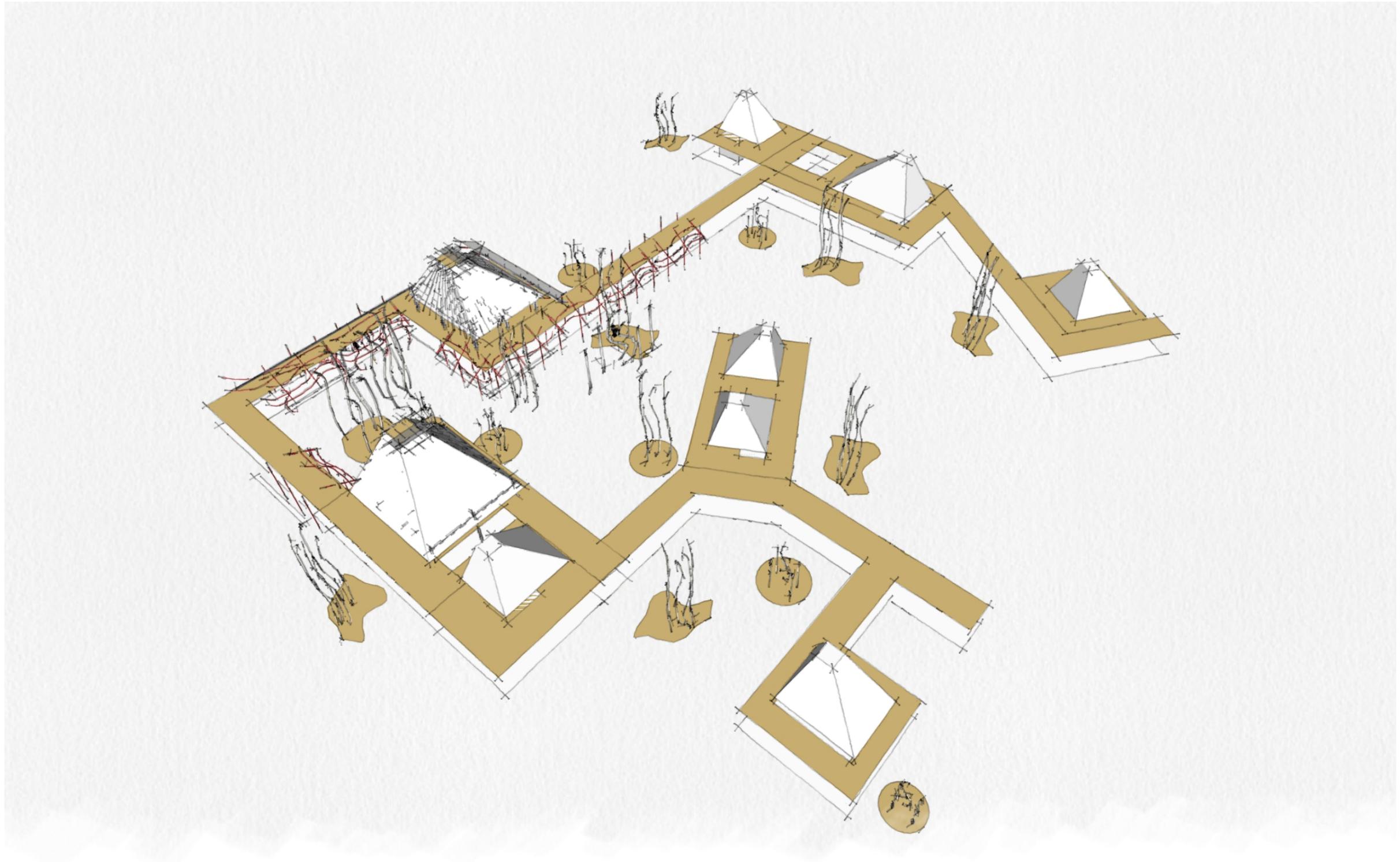
→ FIRST AERIAL ROOTS

semi-outdoor spaces

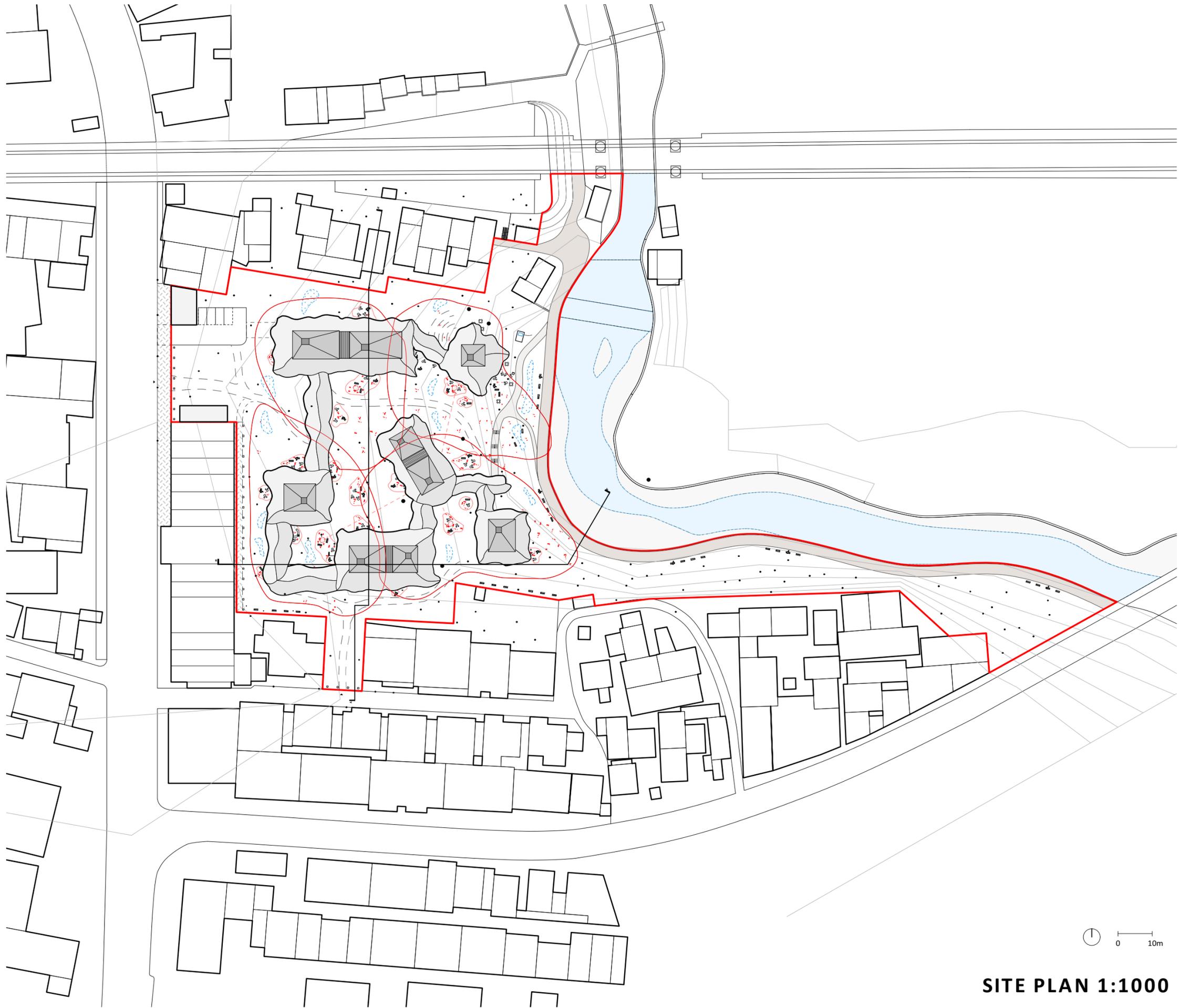
indoor spaces



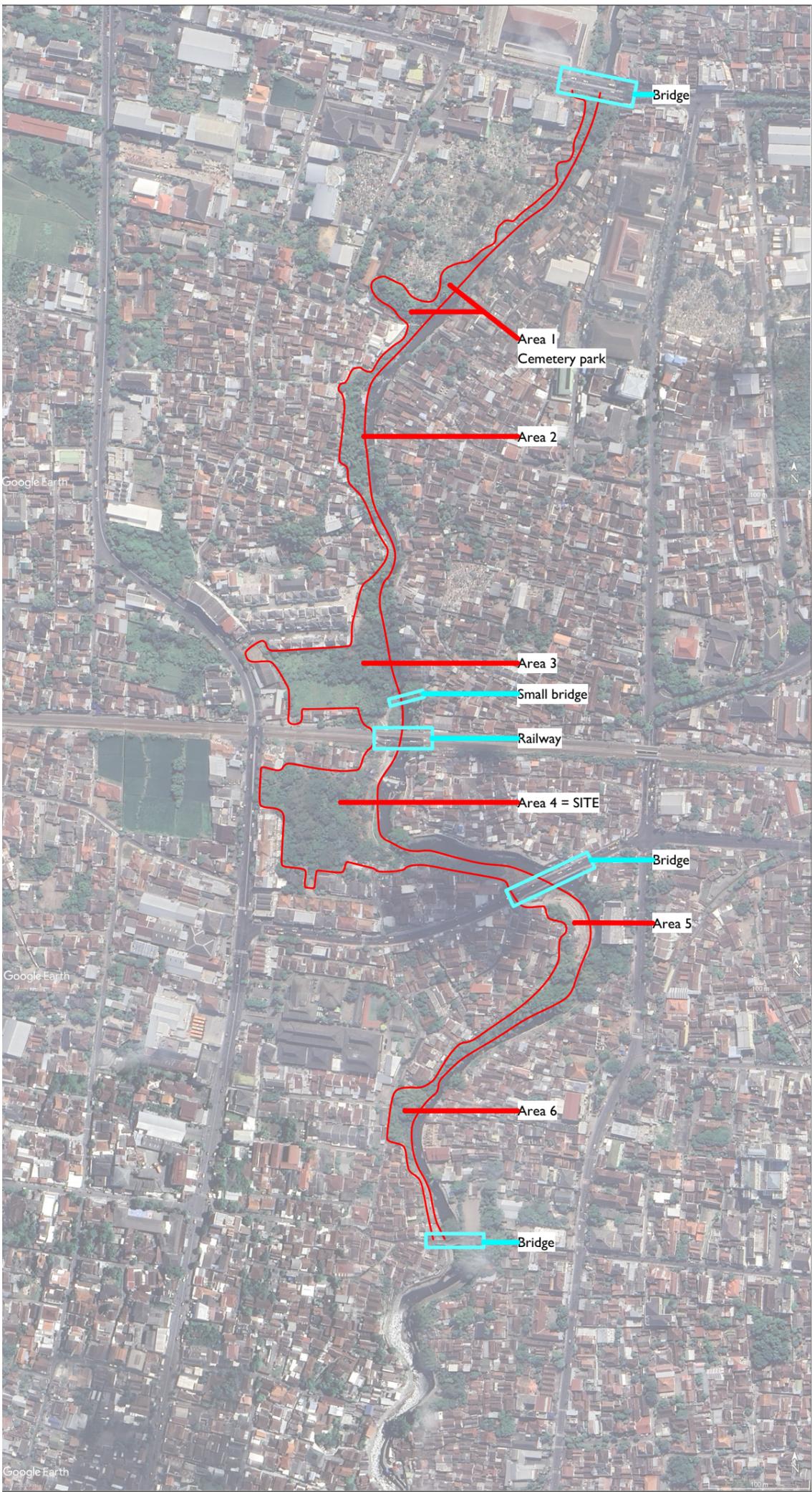




SKETCH 3D VIEW

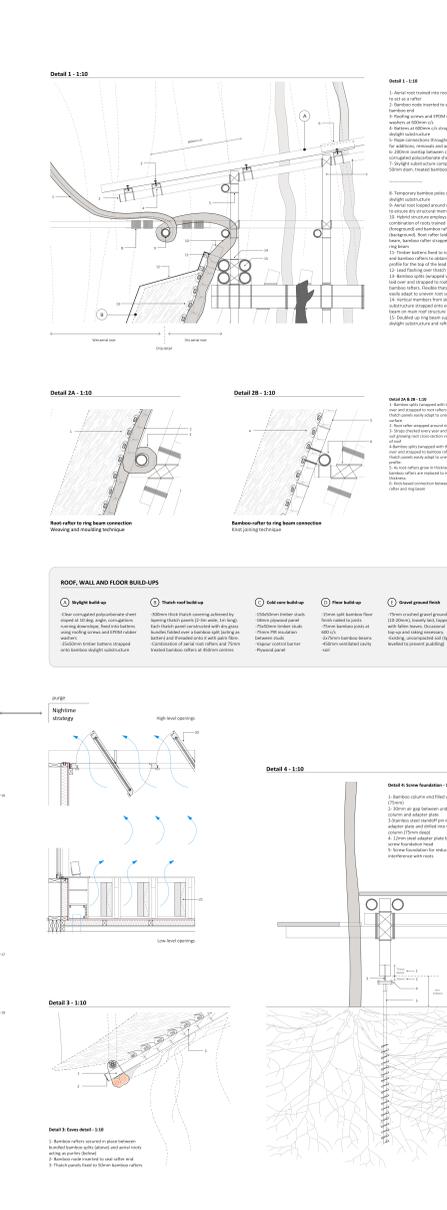
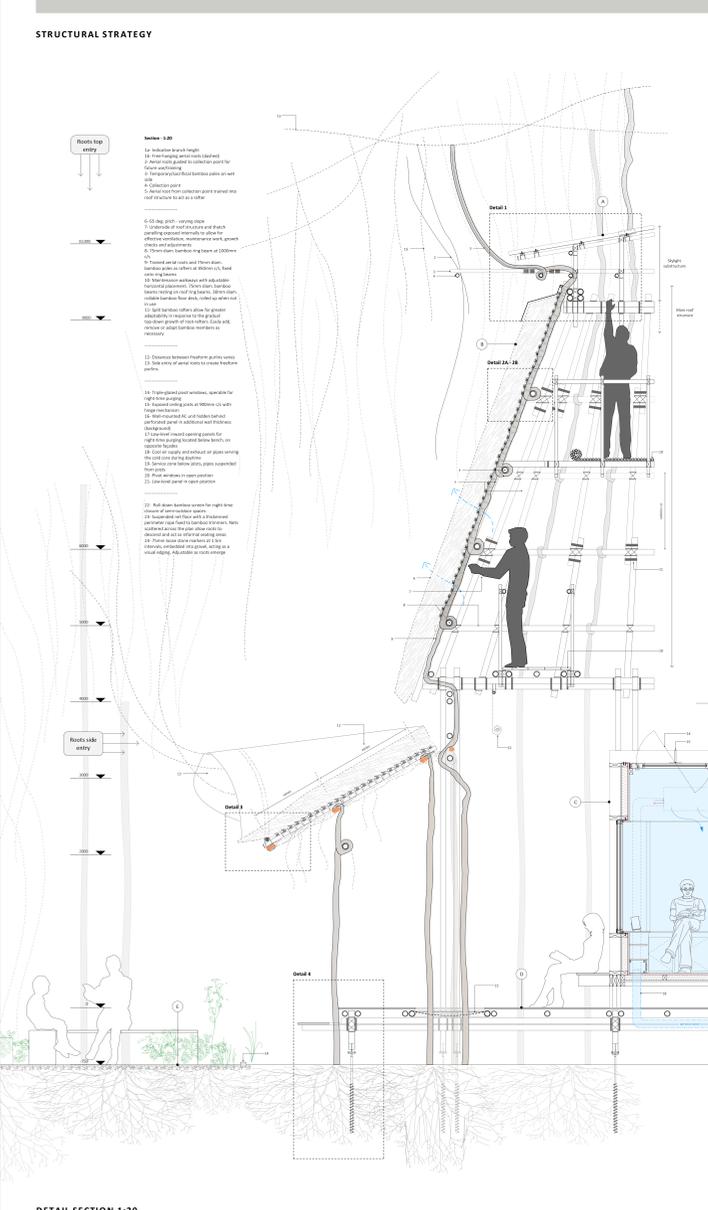
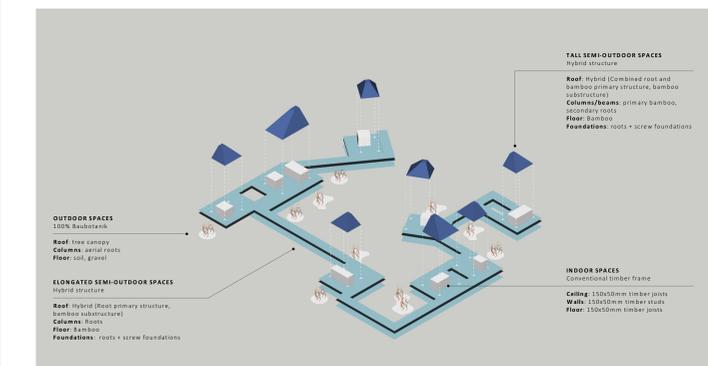
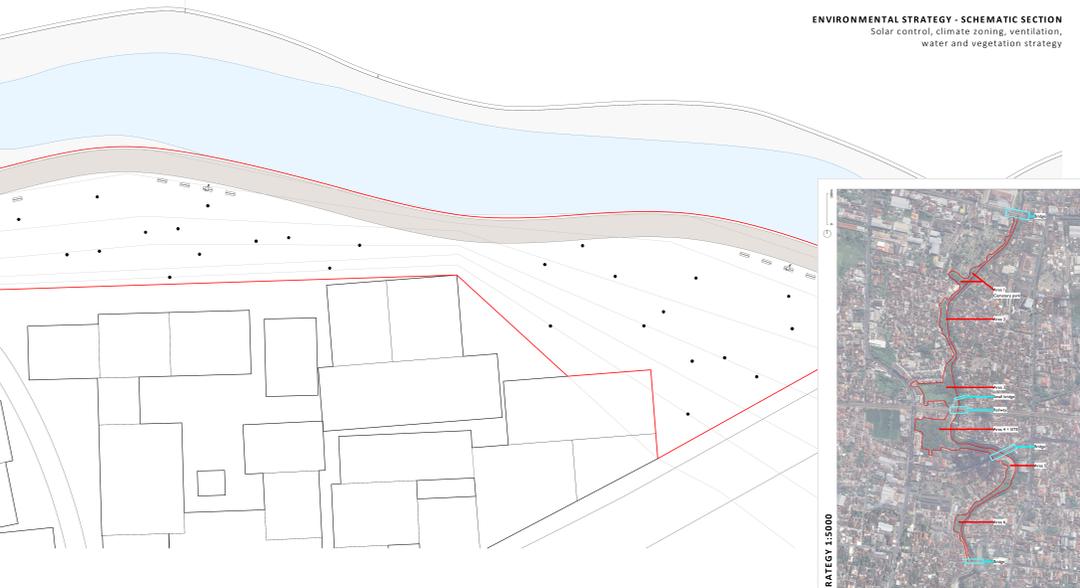
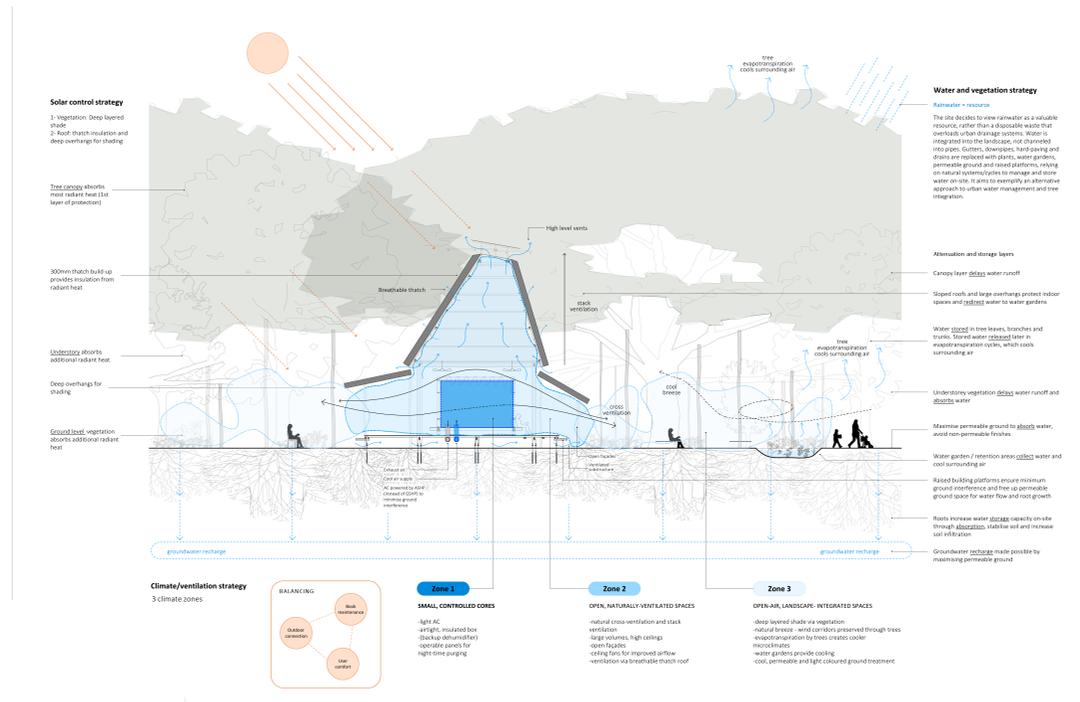


SITE PLAN 1:1000



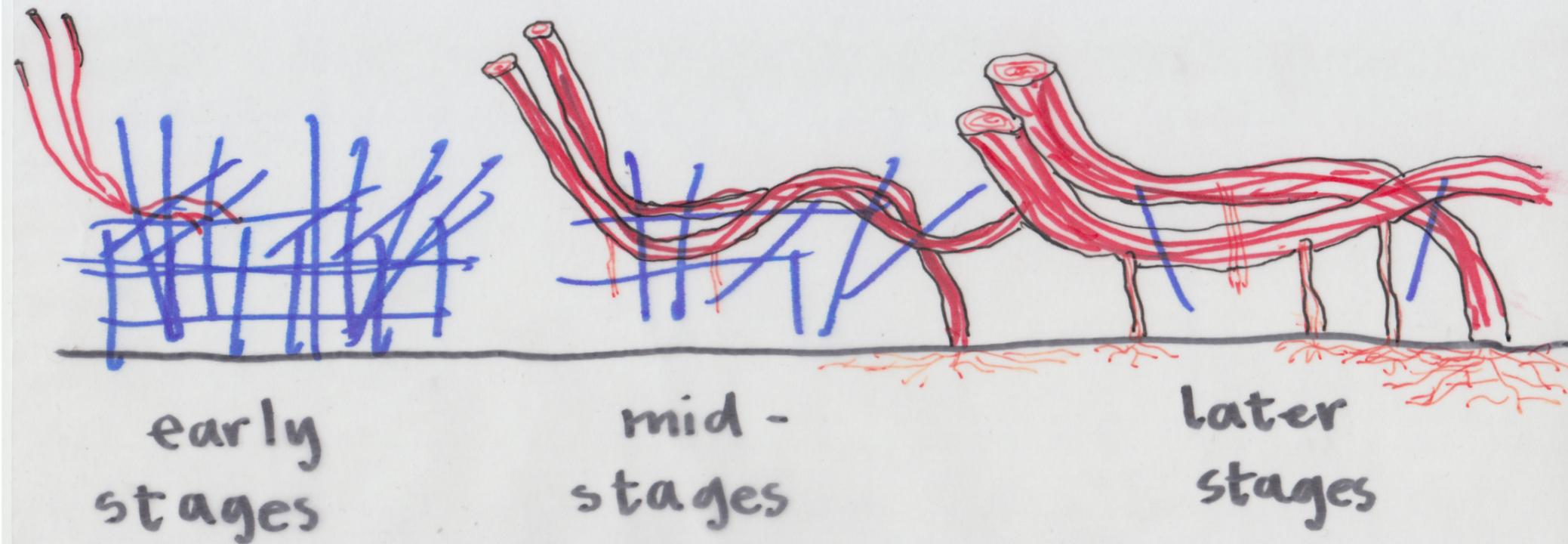
URBAN STRATEGY 1:5000





The growing structure

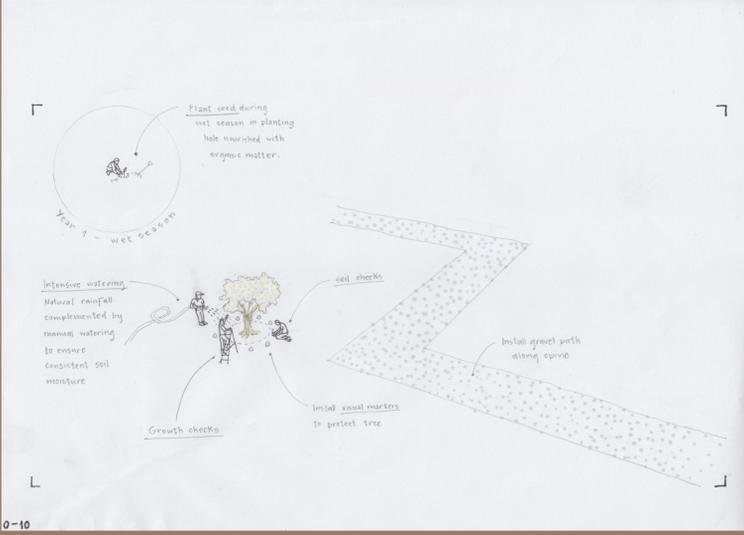
- bamboo removed step by step



CONCEPT DIAGRAMS

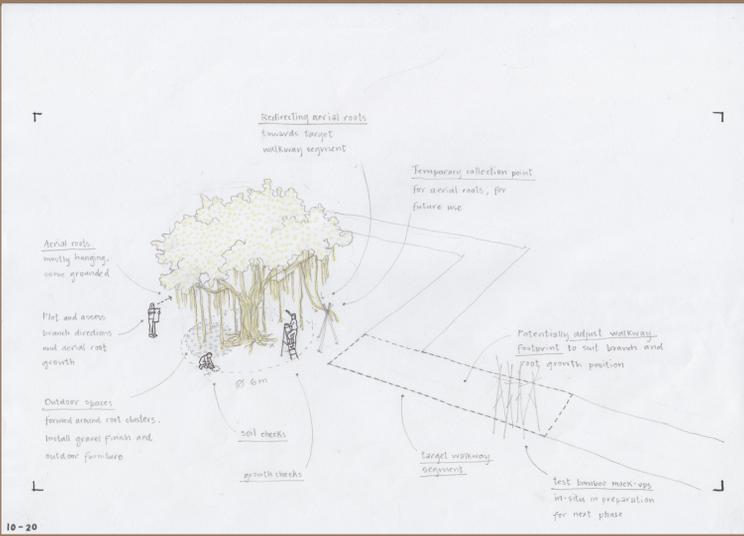
The growing structure

pre-training stage



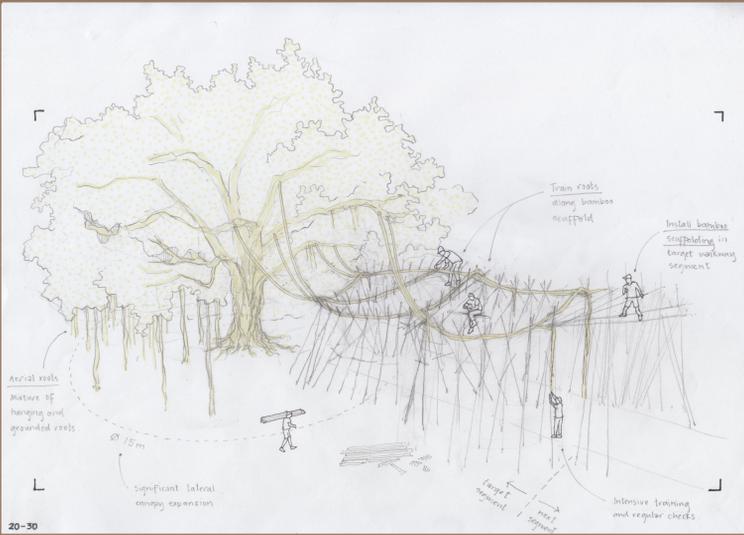
YEAR 0-10

- Plant ficus benghalensis seed at the start of the wet season (November)
- Support and monitor natural tree growth
- No root training (no aerial roots yet)



YEAR 10-20

- First aerial roots emerge
- Roots not within reach of walkway segment.
- Minimal training: collect and redirect nearby roots towards walkway segment for future use



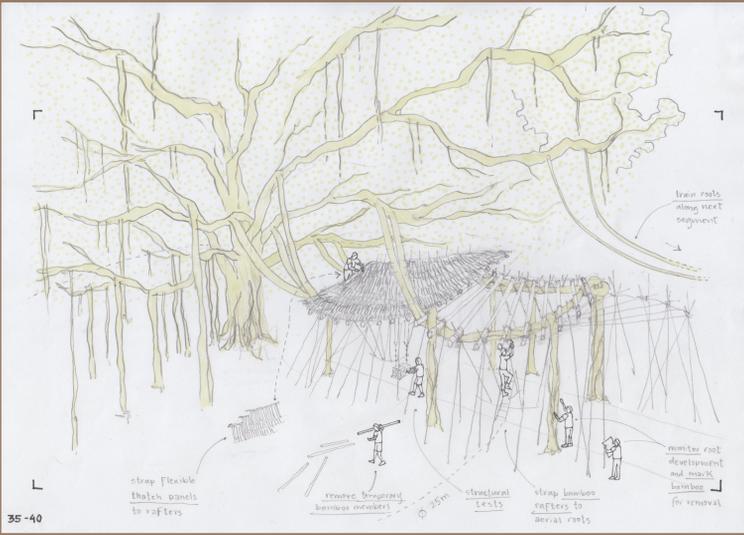
YEAR 20-30

- Canopy coverage reaches walkway segment.
- Install bamboo scaffolding along spine to guide roots
- Intensive training during wet season: Train flexible roots along bamboo scaffold (as purlins) and downwards (as columns)
- Regular monitoring of root development



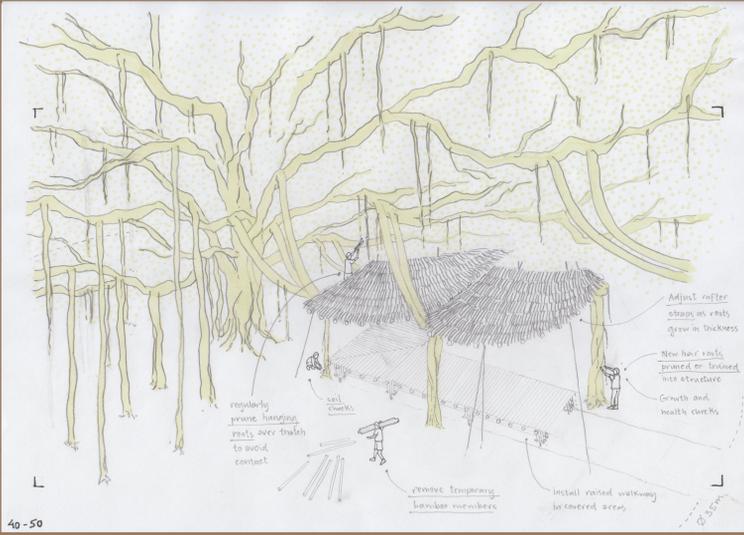
YEAR 30-35

- Bamboo scaffold remains in place for support.
- Trained roots establish themselves in the soil. They become lignified (rigid) and thicker in diameter
- Secondary hair roots trained into structure.
- Regular monitoring of root development and live structural/load tests, to determine if roof can be installed.



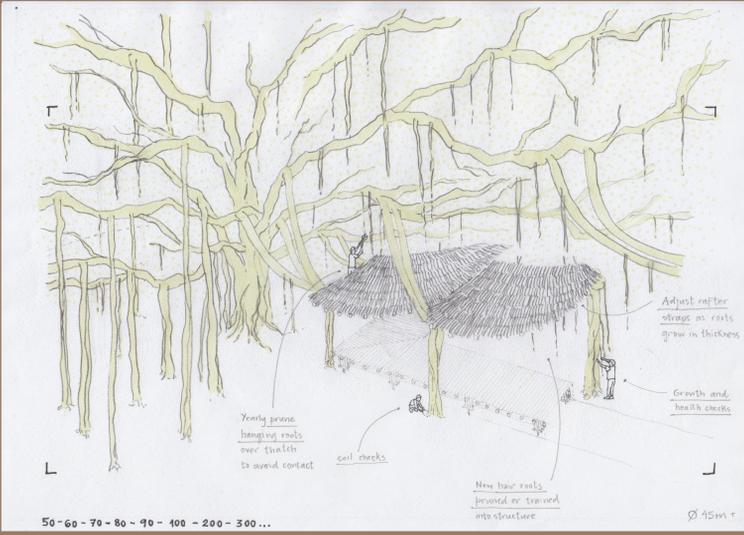
YEAR 35-40

- Roots continue to grow thicker and stronger
- Install roof while scaffolding in place. Bamboo rafters strapped to roots. Thatch panels strapped to bamboo rafters.
- Re-perform structural tests and monitor root development.
- Identify areas that are strongest and weakest. Mark bamboo members for early removal versus later removal
- Start removing bamboo members step-by-step.



YEAR 40-50

- Roots become more stable
- Continue removal of additional bamboo members step-by-step
- Roof: Adjust straps between root and bamboo rafter, as roots grow in thickness.
- New hair roots pruned or incorporated into structure
- Install raised walkway



YEARS 50-60-70-80-90-100-200+

- Regular monitoring of root development and health checks
- New hair roots pruned or incorporated into structure
- Periodical adjustment of straps to suit root thickness

early stages

mid-stages

later stages