



EXPERIENCE

TODD HAIMAN LANDSCAPE DESIGN 2021-2023 JUNIOR DESIGNER

- Practice focused on high-end residential spaces in Manhattan, NY
- Designed sustainable outdoor spaces with native plant selections, an informed sense of place, and imaginative solutions to clients' needs
- Oversaw a team of contracted professionals including architects, engineers, horticulturists, arborists, irrigation and lighting specialists
- Prepared detailed renderings and construction documents for schematic designs

OPIARY 2019-2021 PROJECT MANAGER

- Boutique design studio specializing in handmade biophilic furniture
- Collaborated with head designer to create design-build landscape architecture concepts for commercial and residential clients
- Coordinated project budgeting, management, and installation
- Designed media campaigns including website, newsletters, publications, and social media

VEHICLE MONITORING SYSTEMS 2018-2019 SALES ASSOCIATE

- Startup enhancing urban street design through distributed sensor networks
- Created sales presentations and drafted RFP bids
- Researched smart parking competition and potential markets in an entrepreneurial environment
- Offered data-driven analysis of network performance for existing clients

EDUCATION

UCL (THE BARTLETT SCHOOL OF ARCHITECTURE) 2023-2025 MASTER OF LANDSCAPE ARCHITECTURE

- Gaining advanced technical and professional skills for a career in landscape architecture
- Developing innovative design research skills, interdisciplinary knowledge, and critical thinking to address environmental, urban, and social challenges
- Applying climate-focused design principles to address issues like biodiversity loss and ecological crisis

MCGILL UNIVERSITY 2014-2018 BACHELOR OF ARTS IN URBAN SYSTEMS GEOGRAPHY

- Applied urban planning principles and GIS for spatial analysis
- Explored interconnected social, economic, and environmental aspects of urban environments
- Developed strong research and communication skills through projects on urban development trends

SKILLS

3D RENDERING

- AutoCAD
- Rhino
- Grasshopper
- Sketch Up

ADOBE SUITE

- Photoshop
- InDesign
- Illustrator
- HTML+CSS

GIS / MAPPING

- QGIS/ArcGIS
- LIDAR datasets

OFFICE MANAGEMENT

- Salesforce CRM
- Quickbooks accounting
- Excel
- SEO & Google Analytics

ACHIEVEMENTS

URBAN PLANNING

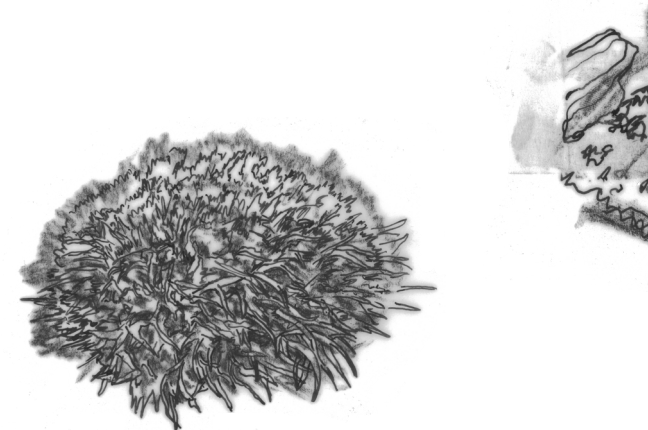
- Student Guide / 12th Metropolis World Congress of Mayors / 2017
- 2nd Place Design Proposal / NXT City Toronto competition / 2016

COMMUNICATIONS

- Communications Consultant / Climate Reality Project CA / 2017-2018
- VP Communications / McGill Geography Society / 2017-2018

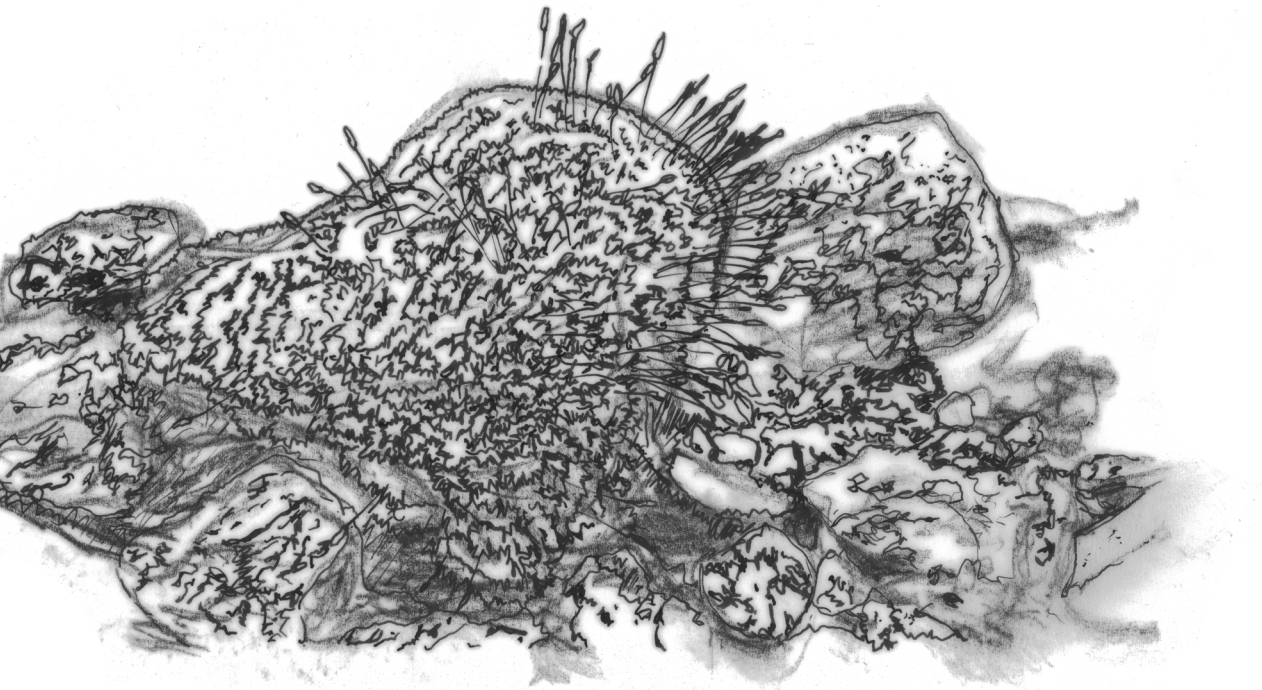
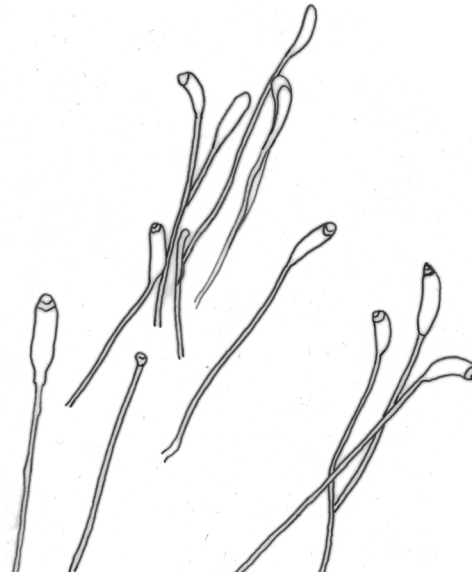
GRAPHIC DESIGN

- Featured submission / NYC x DESIGN Mag / 2021
- Creative Director / Branches: The McGill Undergraduate Environmental Journal / 2018



CONTENTS

TRIBECA PENTHOUSE	4
THE MILLENIA ATRIUM	6
ROOF GARDEN OASIS	8
P.S. 159 POLLINATOR GARDEN	10
REWILDING SUBURBIA	12
URBAN MOSS FARM	14
MIDNIGHT SUN	16



TRIBECA PENTHOUSE

ORG: OPIARY
YEAR: 2019
ROLE: PROJECT MANAGER
STATUS: COMPLETE
SIZE: 3,687 SQ FT

This project sought to create a calm repose from urban life. Minimalist organic forms and evergreen foliage selections aesthetically connected three levels of terraces framing views of the Hudson River. We introduced winding pathways, several distinct zones, and a tiered water feature to stimulate wandering and contemplation. The design included a large number of custom pieces which were fabricated in studio.



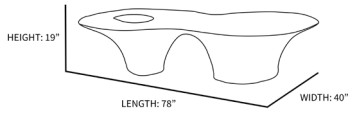
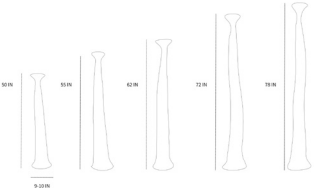
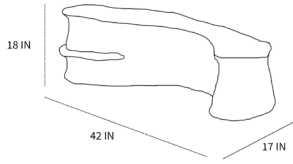
EXISTING SITE - MANHATTAN, NY



SOUTH FACING VIEW

BIOPHILIC DESIGN

Opiary is a biophilic design studio that handmakes furniture pieces with integrated plant specimens. As part of the small, close-knit team my responsibilities ranged from project management, to designing, gardening, and sculpting forms out of concrete.



NORTH FACING VIEW

THE MILLENIA ATRIUM

ORG: OPIARY
 YEAR: 2021
 ROLE: PROJECT MANAGER
 STATUS: COMPLETE
 SIZE: 5,000 SQ FT

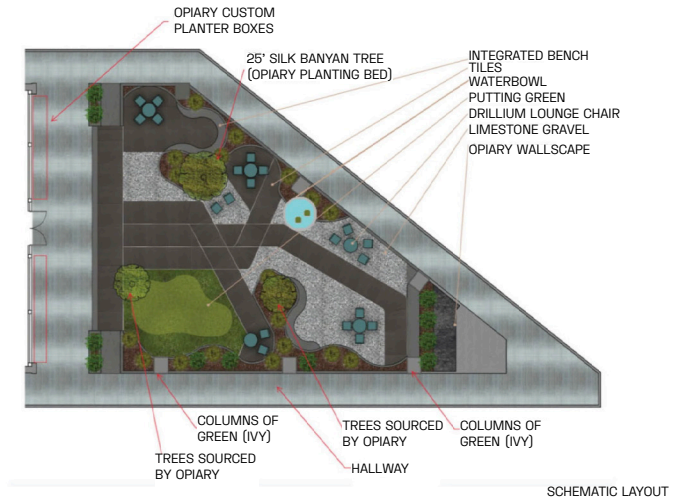
The goal of this project was to design, procure, and install an upscale interior landscape in the atrium of a new apartment building. The developer wanted to activate the space by constructing a lively, tropical garden for residents to enjoy, and we proposed a schematic design which included a "jungle" of silk plants, curvilinear planting beds, built-in benches/furniture, suspended planters, and a freestanding fountain.



EXISTING SITE - NEW ROCHELLE, NY



PHOTOSHOP RENDERING



PROJECT MANAGEMENT

I assisted our head designer with the procurement and installation of this project. Covid 19 affected our initial cost estimates, and in order to maintain the original budget, I price negotiated with Chinese silk plant manufacturers and learned to blacken steel in-house.



PROMOTIONAL VIDEO OF FINISHED PROJECT

ROOF GARDEN OASIS

ORG: THLD
YEAR: 2023
ROLE: LEAD DESIGNER
STATUS: COMPLETE
SIZE: 950 SQ FT

Drawing inspiration from our client's Irish heritage, this intensive green roof showcases a trellis of hops vines, native grasses, and wildflowers, evoking the charm of an Irish meadow. Despite the challenge posed by unsightly mechanicals, our consultations with a roofer and green roof specialist resulted in a structurally sound final plan.



EXISTING SITE - BROOKLYN, NY



RESIDENTIAL LANDSCAPE DESIGN

As the sole designer of this project, I enjoyed participating in every step of the process – including sourcing flagstones, custom planters, furniture, and plant selections.



SCHEMATIC PLAN



P.S. 159 POLLINATOR GARDEN

ORG: THLD
YEAR: 2022
ROLE: ASSOCIATE DESIGNER
STATUS: PERMITTING PHASE
SIZE: 4,800 SQ FT

Brooklyn-based, P.S.159 approached us after receiving funding for an educational garden in front of their school. The space comprised of two long strips flanking the main entrance stairs. Our proposal created two distinct gardens united by a coherent aesthetic.

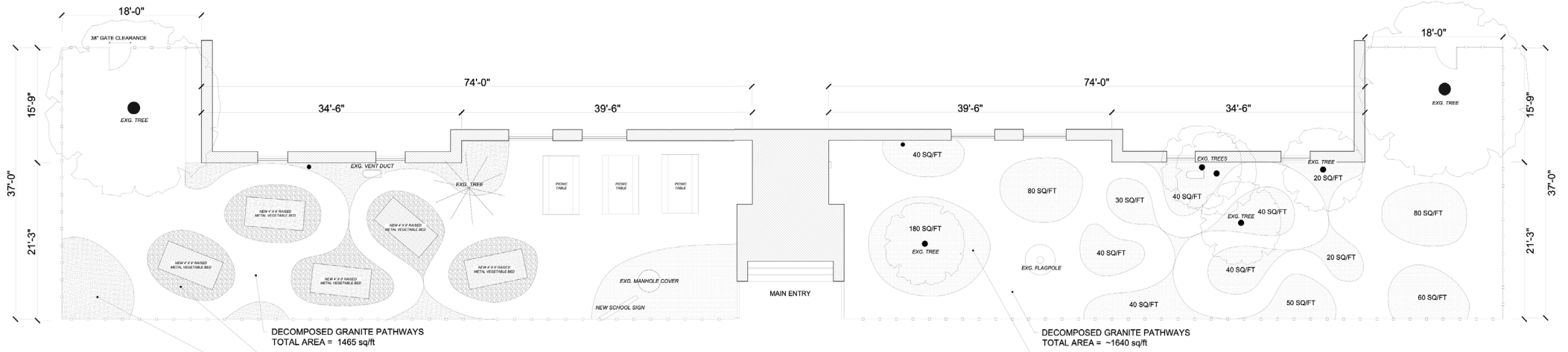


EXISTING SITE - BROOKLYN, NY



PUBLIC SPACE DESIGN

On Side A: kinetic learning and a pollinator garden; on Side B: classroom learning and a vegetable garden. In both spaces, we used a winding path motif to cultivate a sense of adventure and wonder for the students.



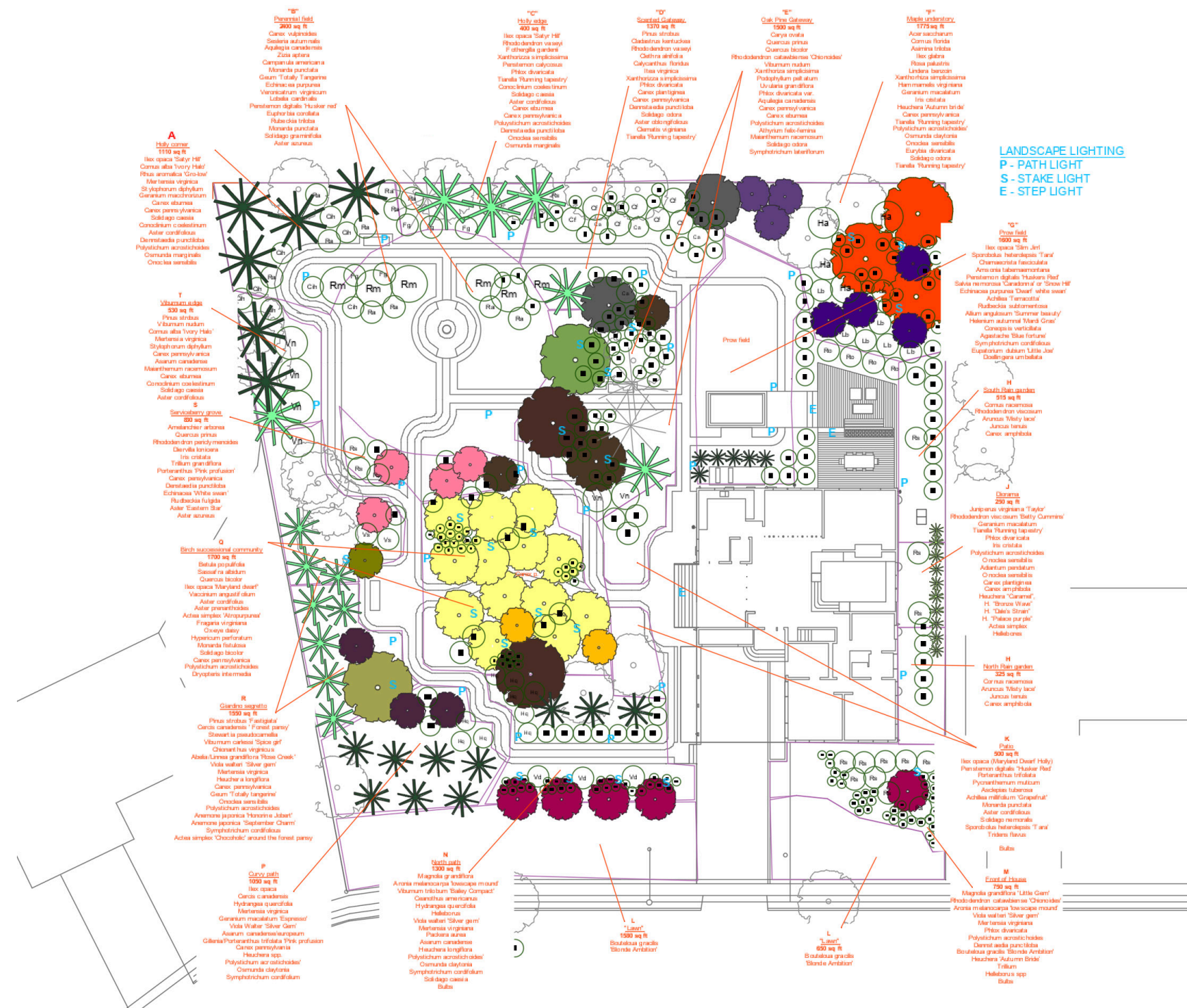
REWILDING SUBURBIA

ORG: THLD
 YEAR: 2022
 ROLE: ASSOCIATE DESIGNER
 STATUS: COMPLETE
 SIZE: 4,800 SQ FT

The clients of this project combined two lots in Clifton, New Jersey with the idea of having one as their home and one as their garden. They approached us with the hope of creating a wilderness in the suburbs and asked that we design a large meadow for native plants and pollinators.



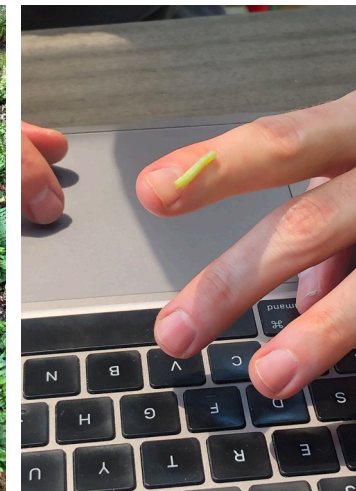
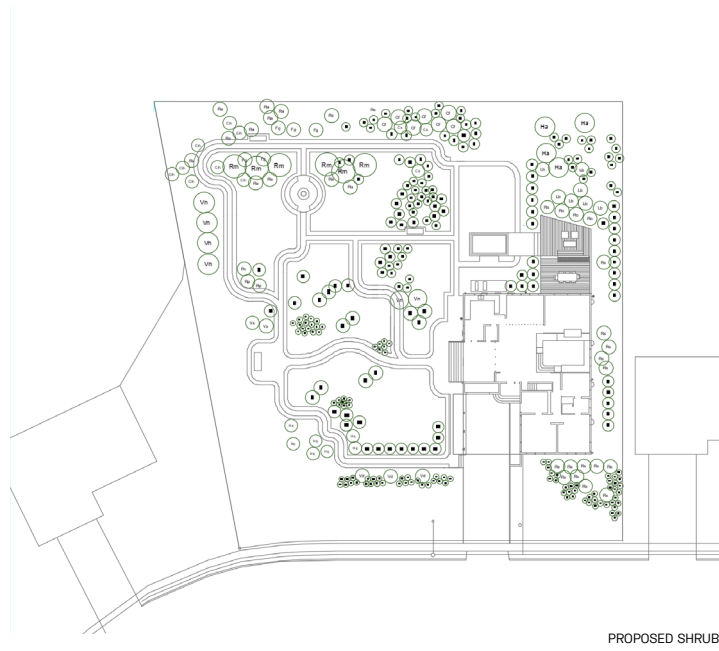
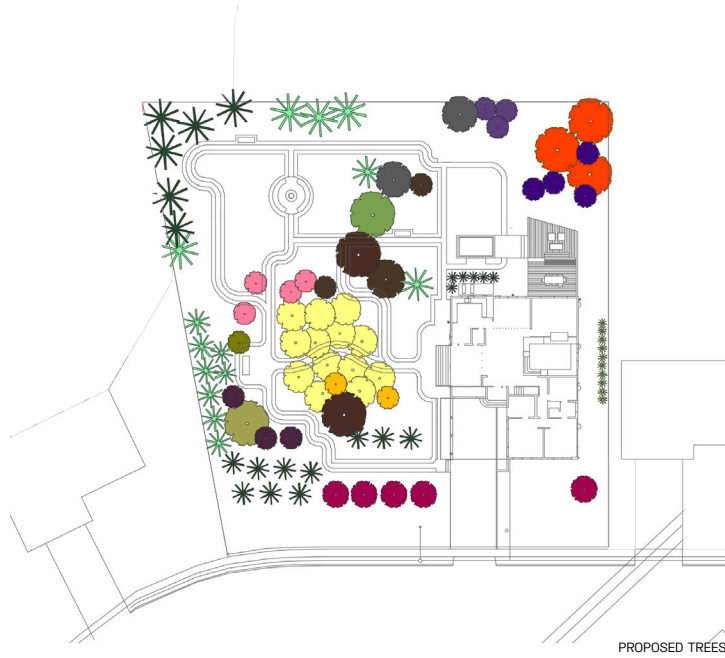
EXISTING SITE - CLIFTON, NJ



LANDSCAPE LIGHTING
 P - PATH LIGHT
 S - STAKE LIGHT
 E - STEP LIGHT

RIGHT PLANT, RIGHT PLACE

We analyzed the project site using a wide variety of strategies (surveying, soil testing, sun studies, functionality diagramming, etc.) and conceptualized an english garden schematic with experiential paths and follies. The extensive planting plan identifies the "right plants" for the microclimate and the "right place" for each.



20,000 PLUGS

Our team supervised the installation and helped the landscaping team with planting. I managed the "plant nursery" tent pictured left.

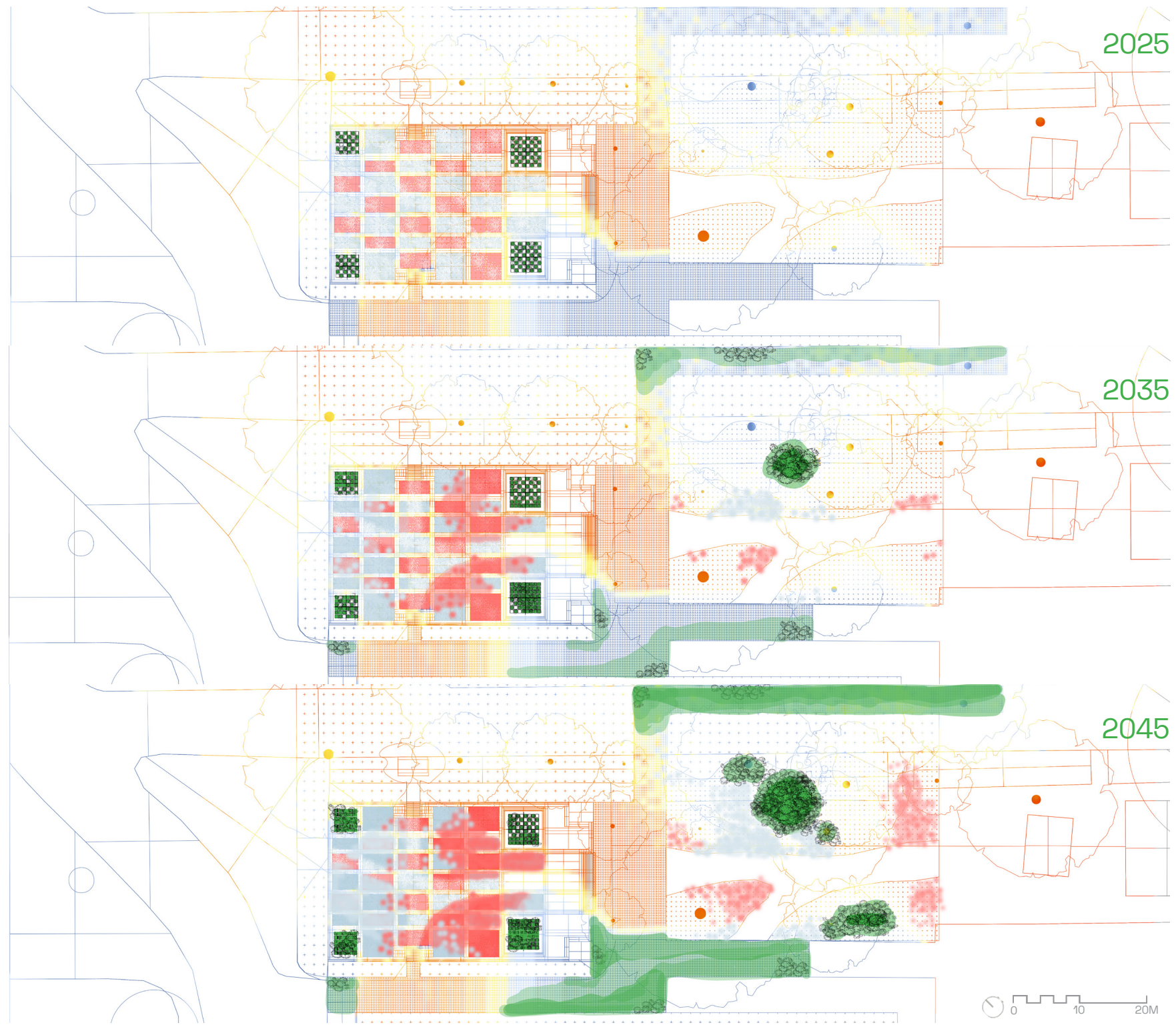
URBAN MOSS FARM

ORG: THE BARTLETT
YEAR: 2023
ROLE: STUDENT WORK
SIZE: 10,000 SQ FT

This project addressed compaction and drainage issues in an urban area heavily affected by foot traffic. I proposed a design that reframes human disturbance as an asset, integrating visitors into the remediation process. Utilizing existing built environment features, I outlined a strategy to cultivate moss colonies and use pedestrian foot traffic to help their rhizoids establish.



EXISTING SITE - LONDON, UK



2025

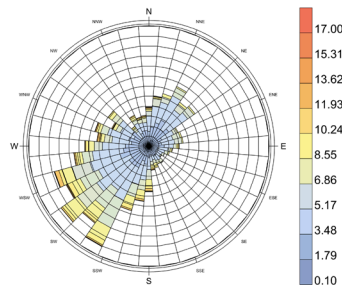
2035

2045

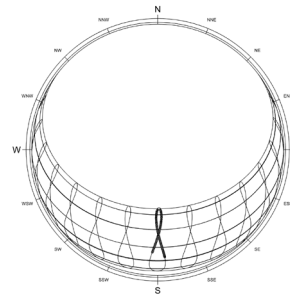


ENVIRONMENTAL MODELLING

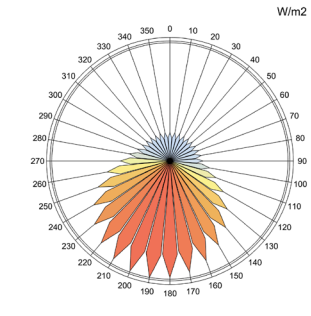
To accurately model the development of moss and other selected species over time, it was necessary to conduct environmental analyses using Rhino and Grasshopper. These findings informed the sequence of illustrated drawings on the previous page.



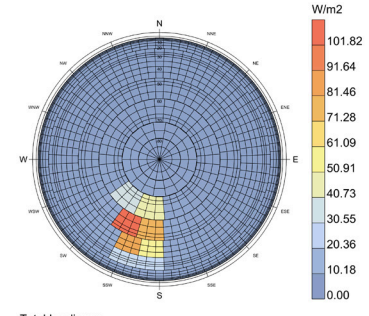
ANNUAL WIND SPEED (M/S)
CALM FOR 0.43% OF THE TIME (36 HRS)



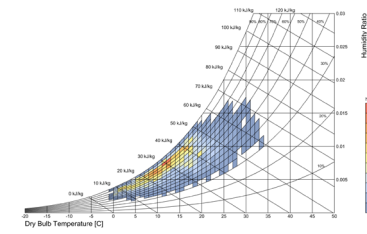
ANNUAL SUN PATH



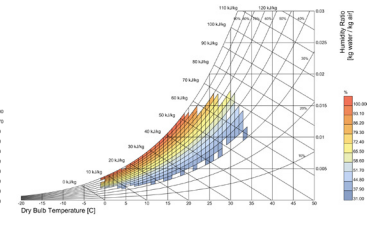
AVERAGE DAILY IRRADIANCE (W/M2)
DIRECT SUN EXPOSURE



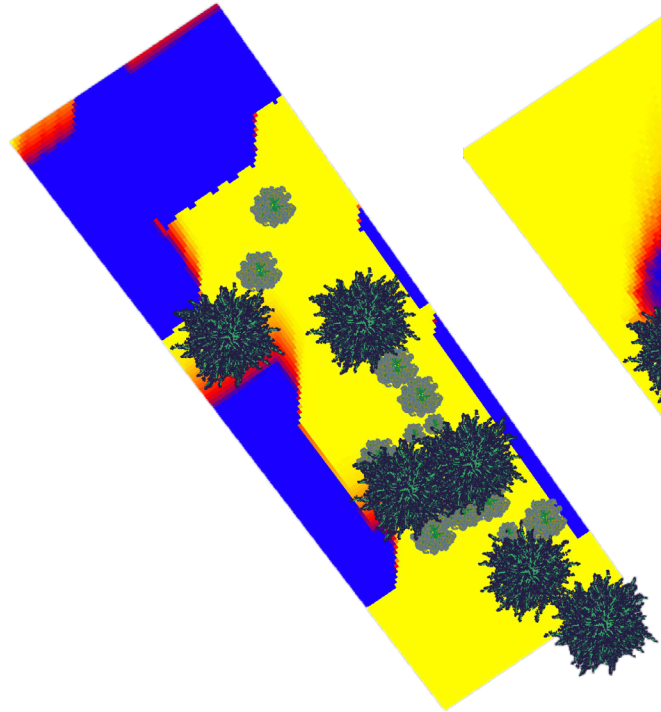
AVERAGE DAILY IRRADIANCE (W/M2)
INDIRECT SUN EXPOSURE



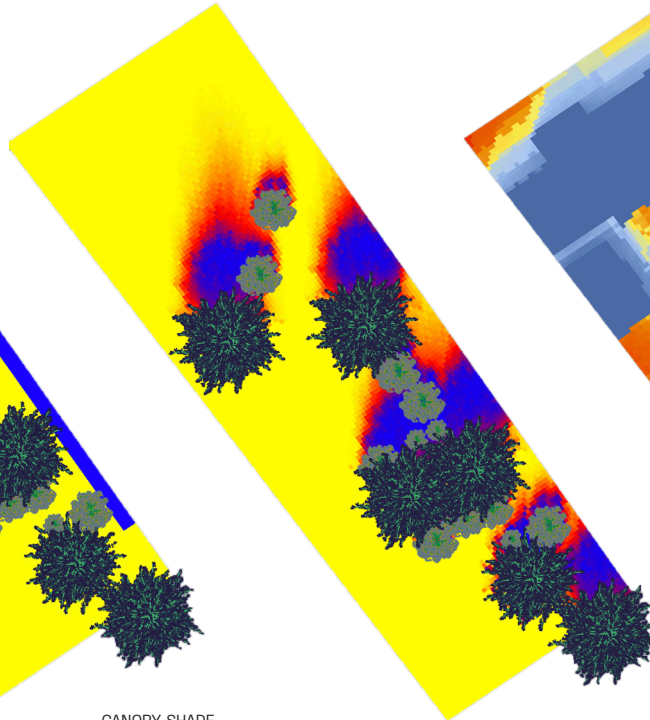
ANNUAL HOURLY HUMIDITY RATIO (%)
TOP CURVE IS SATURATION LINE



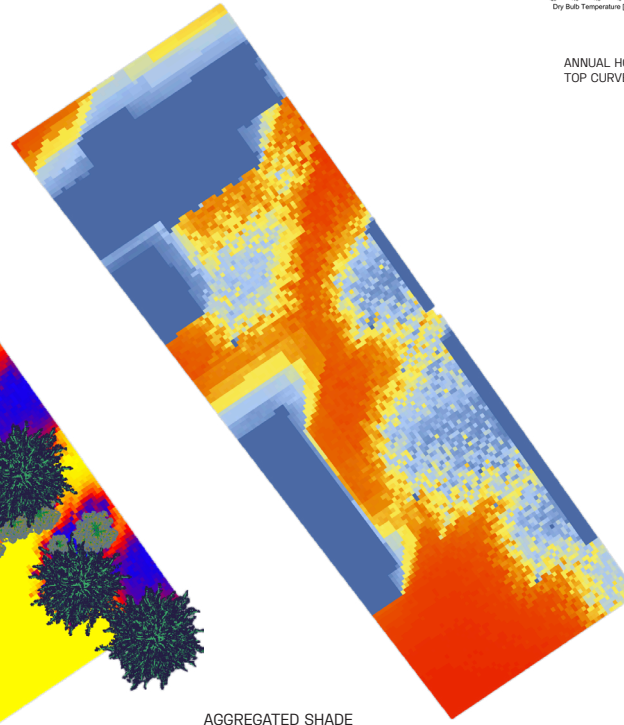
RELATIVE HOURLY HUMIDITY RATIO (%)
FOR REFERENCE



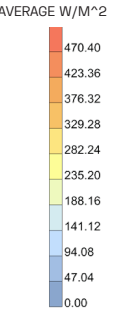
BUILDING SHADE



CANOPY SHADE



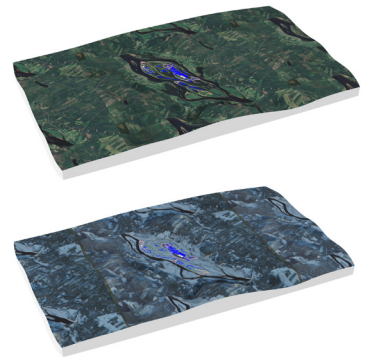
AGGREGATED SHADE



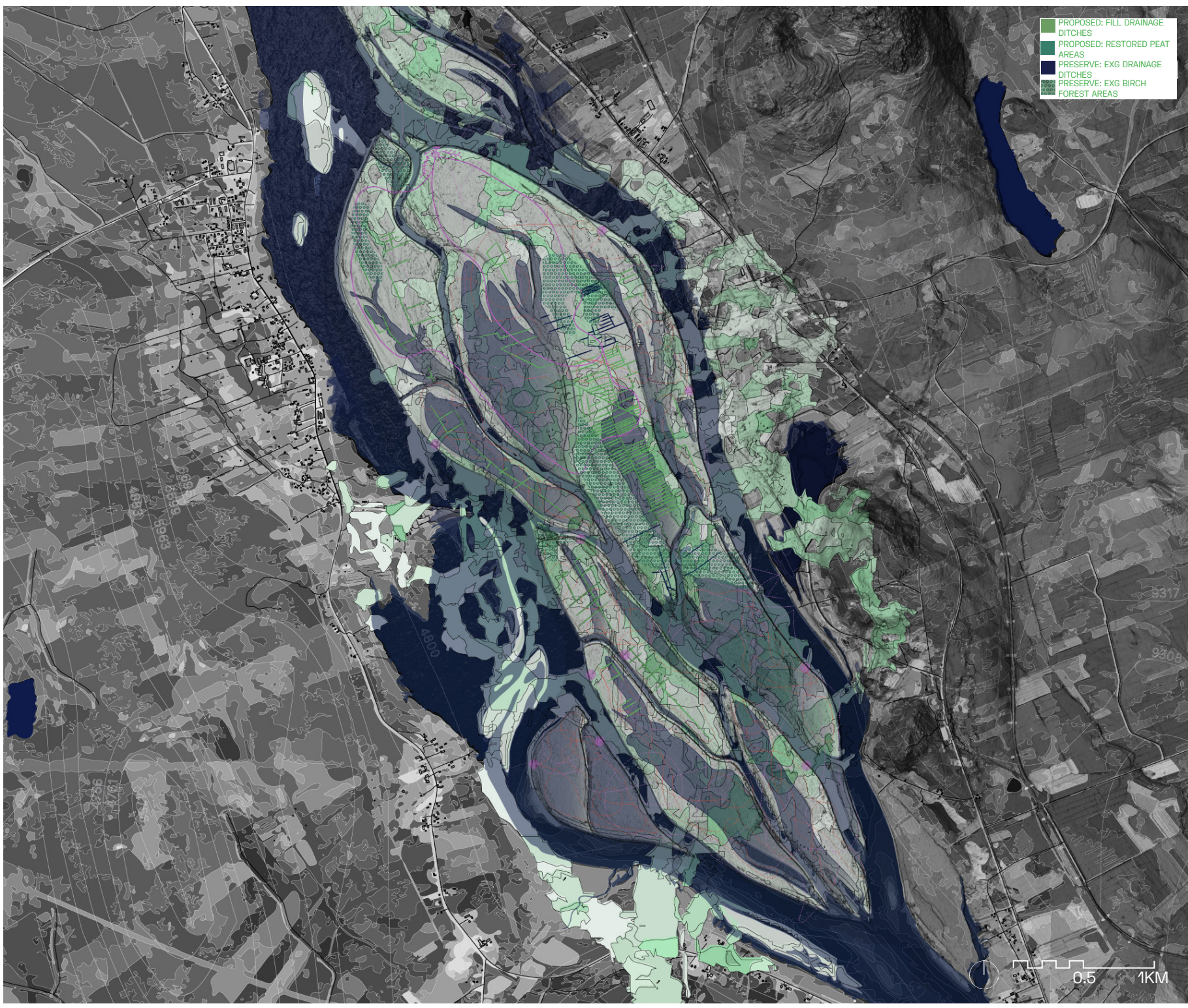
MIDNIGHT SUN (PEATLAND RESTORATION)

ORG: THE BARTLETT
YEAR: 2024
ROLE: STUDENT WORK
SIZE: 1235 ACRES

This project proposed using peatland restoration as a solution for regional flooding, eutrophication, and biodiversity loss near the Torne River on the border of Finland. As part of the design, visitors to the site were encouraged to create seed paths, which served to jumpstart the restoration process and create an iterative, collaborative planting scheme.



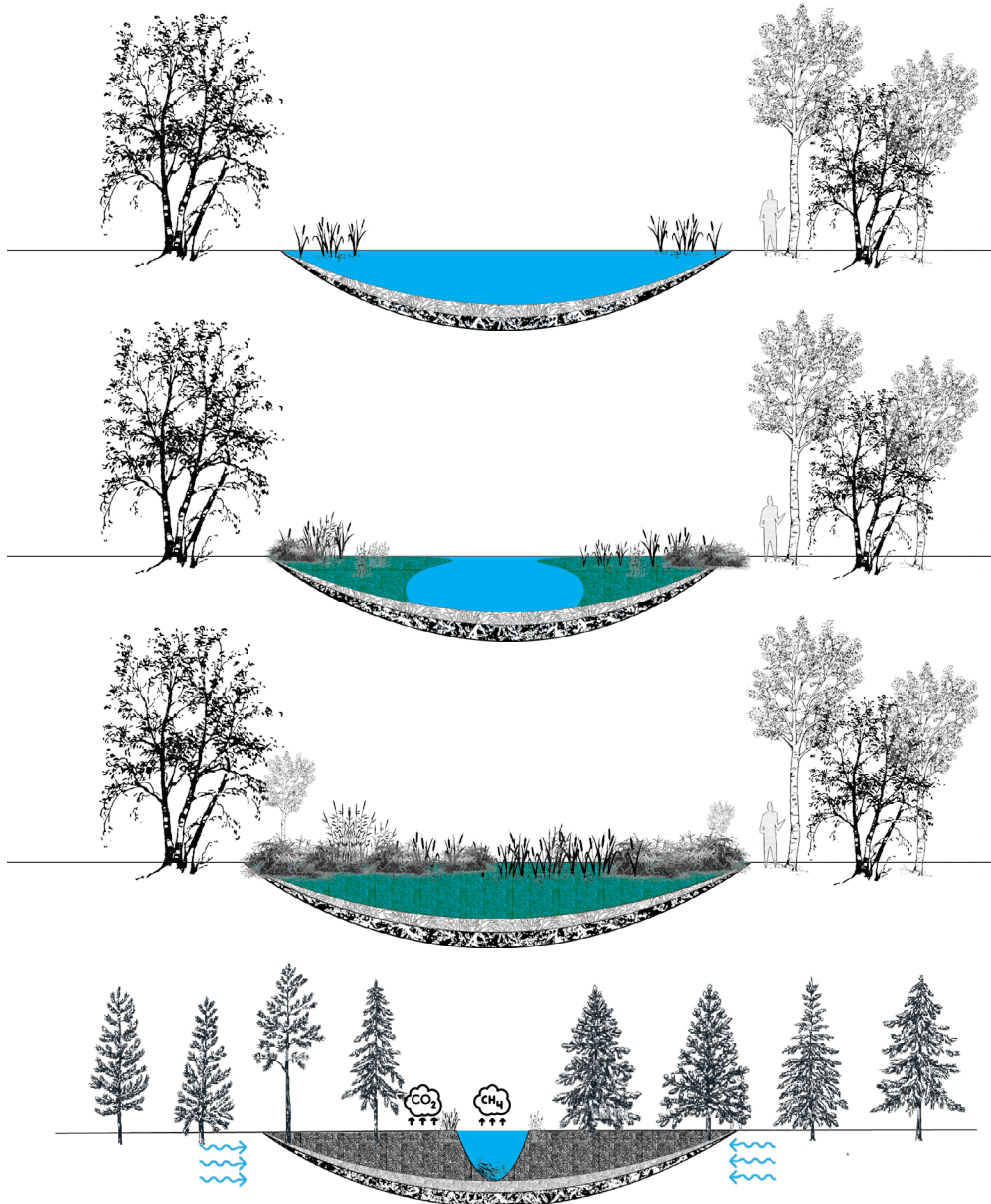
EXISTING SITE - YLITORNIO FINLAND
(3D MODELS OF SUMMER / WINTER CONDITION)



UNDERSTANDING ECOLOGICAL PROCESSES

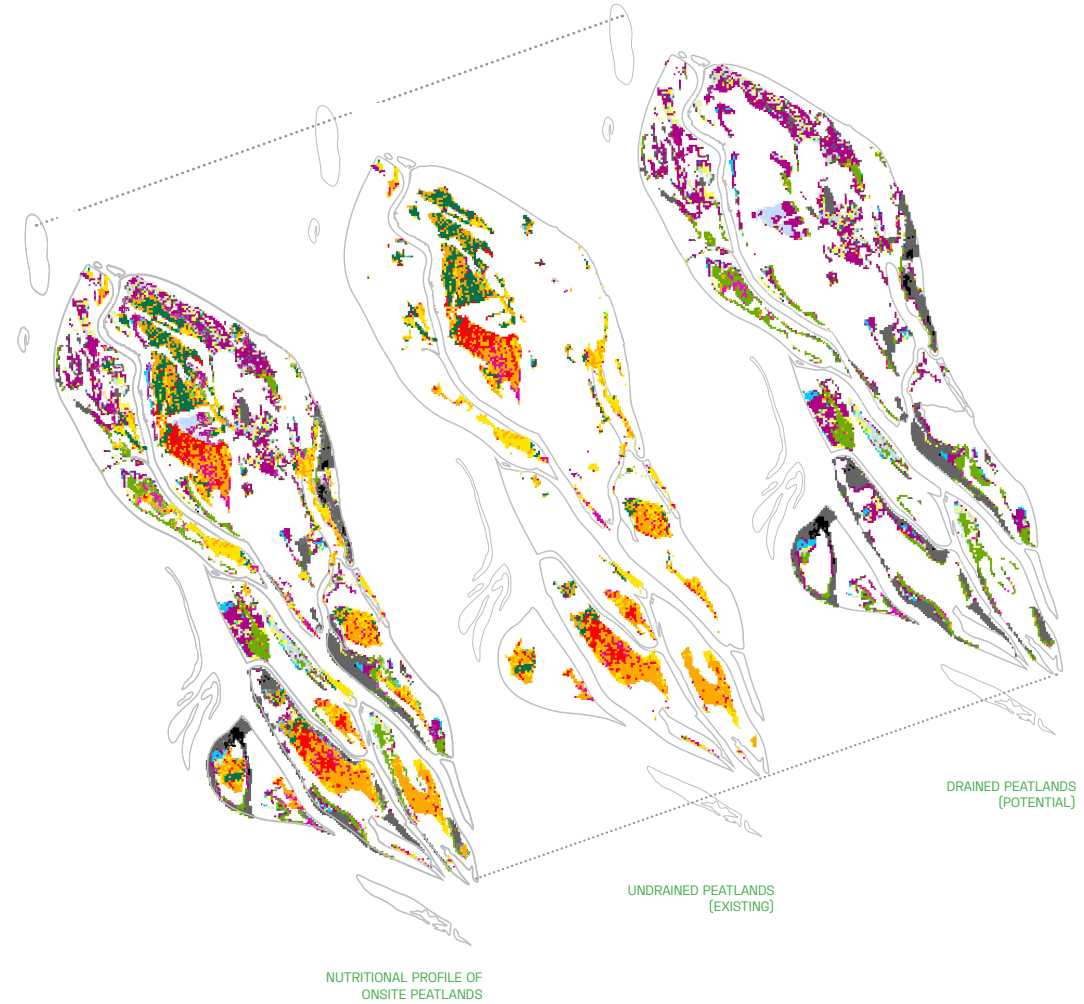
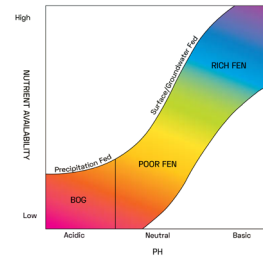
All peatlands are characterized by the process of paludification, whereby a floating moss mat encroaches into a body of standing water and subsequently raises the local water table.

In 20th century Finland, foresters drained peatlands using drainage ditches to create more arable land. This had devastating effects on the local ecology.



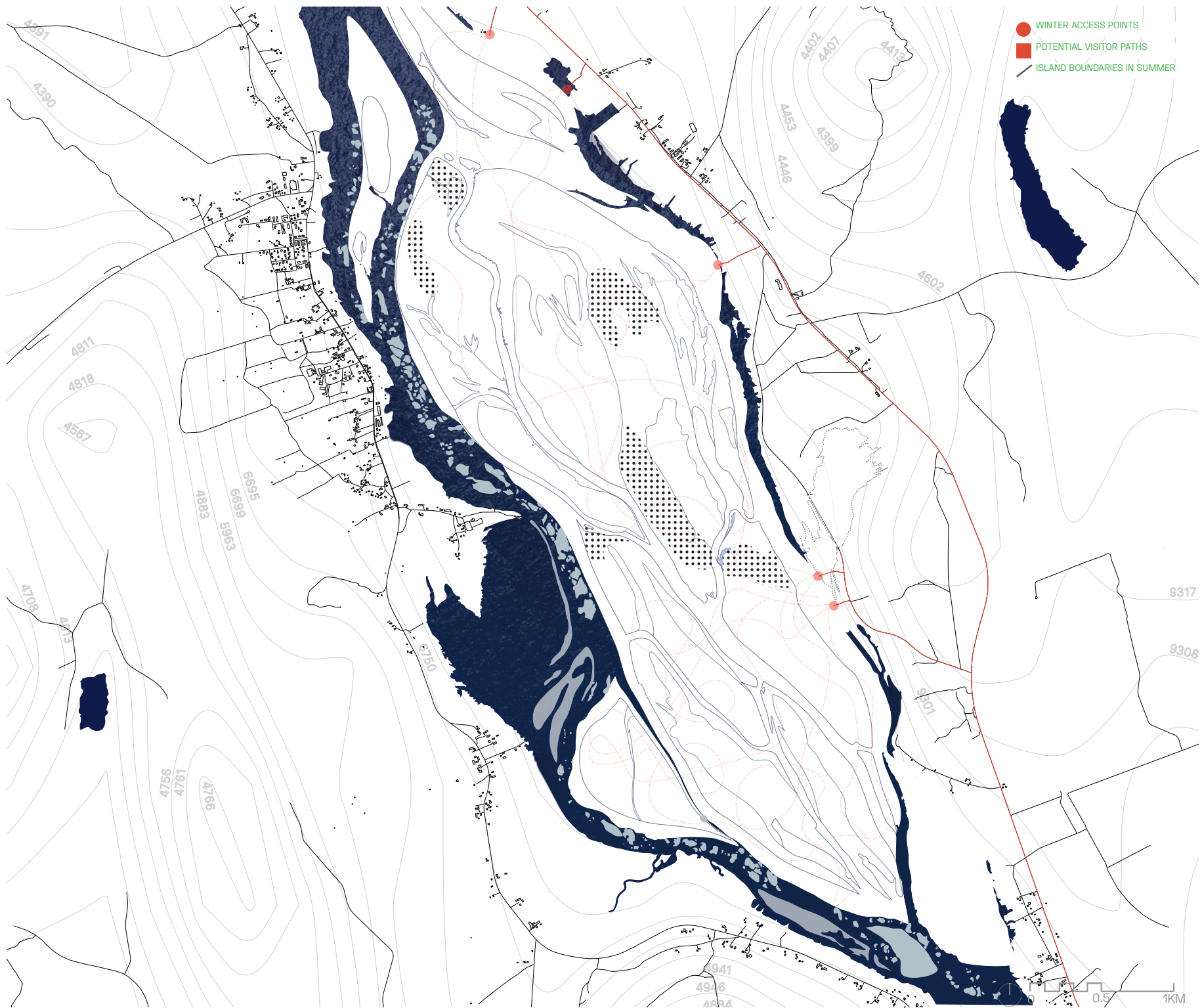
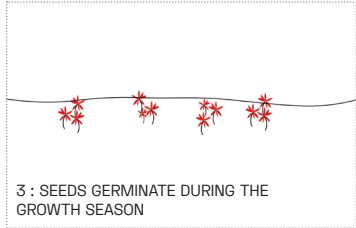
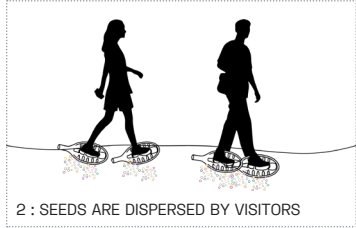
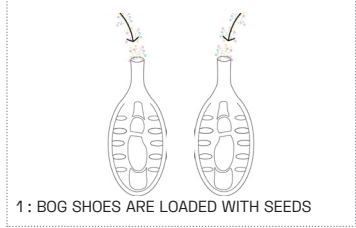
MAPPING NUTRIENT AVAILABILITY

Bogs, poor fens, and rich fens are all subcategories of peatlands distinguished by their water source, access to nutrients and general acidity. The Torne River islands exhibit a wide range of nutritional conditions and by extension, ecological niches.



COMMUNITY ENGAGEMENT

Participatory seeding is a key element of this restoration project. Wetlands are extremely delicate ecosystems, and their soil is too saturated for industrial equipment, so the simplest and most effective way to disperse seed mixes is via humans on foot. To coordinate this effort, a system of seed dispensing bog shoes and seed-refilling cabins will be established at key locations on site.



AN EVOLVING PLANTING PLAN

The planting plan for this site is designed to embrace significant variability and uncertainty. The random paths taken by visitors will create trails of plant species, whose propagation will lead to the formation of more unique patterns. Over time, this intricate web of cause and effect will become too complex to disentangle.

