LinruWang GSAPP 2020-2024



paths



The Field Paths

Slow Ablution

Inwood Arc

The Porch

Constructed Grounds

Thermal Layering

-

Planetary Hermitage

The Field Paths is created in relationship with the existing landscape. By connecting key ecological points across the canal and between the watershed, working with the existing conditions and adapting the design to the locale, the presence of the paths upholds the patterns of the farming fields. With a seasonal wetland habitat surrounding the trees, the visible conditions of the landscape form a natural force that resists rigidity and the linear.

Advanced VI, Spring 2024 Instructors: Sandro Marpillero, Sonal Beri Site: Godhavi, Ahmedabad, India



The Field Paths

A Natural Extension

immersing. walking. the field paths.

Monsoon, the soul of India, has been vital for thousands of years, it gives life to India's ecology and culture. With the geographic surface drained by rivers, seasonal rainfall has been nurturing the land and its people.

Narmada River supplies water to the Sarbamati River that runs through the city of Ahmedabad, and supplies water to hundreds of communities with the expanded canal system. Life cycles in these countries depend greatly on the rain.





Currently confronted with overriding infrastructural expansion, pollution and farmland losses. What does harmonious ecology mean in the context of Godhavi, for whom it is intended, at what scale is it achievable, and through what means can it be realized?

4

3





Visible Conditions

The area between Godhavi and Manipur has been consistently transforming at a micro scale; temporality reshapes navigation patterns between seasons. Recent developments in the peri-urban area has refigured the ways in which local communities engage with water, as infrastructures rearrange connectivity. This practice challenges the encroaching Town Planning Scheme's grids with a low-impact system of paths to access wetlands and sustain the ground.

Godhavi Site Conditions, Infrastructure



Site Monsoon Conditions, Section

Т Η Π FΙΕ Г \square Ρ ATHS

5









7

Left Site Master Plan RIght Progress clay model, Design clay mode







ないの



Progress sketch





Natural Extension

As versatility defines conditions of water, seasonality and gravity redefine its movement. The expanse of water in the summer farming fields becomes the initial moment for this sensible practice. Expanding the landscape of organic wetlands as a way of honoring the monsoon and extending water's presence into all seasons.





Slow Ablution is the interface of water; it encompasses altered landscapes and built structures that direct, collect, and filter rainwater, run-off water and melted snow in the winter. The interface proposes a bridge-over-wetland typology and reintroduces water flows not as problems, but as opportunities to foster new relationships between watershed, rural community, and the city.

Advanced IV, Spring 2022 In collaboration with: Karen Tong Wang Instructor: Ziad Jamaleddine Site: Islamberg, NY, USA



Slow Ablution Ritual Water, Holy Water



Watershed Community

The Cannonsville water reservoir is located less than 2 miles away from Islamberg and plays a crucial role in supplying New York City with approximately 50% of its drinking water, traveling 129 miles to join the Delaware Aqueduct. While the large reservoir primarily serves New York City residents, villages and hamlets rely on drilled wells for their water supply. Watershed communities, often unseen, serve as stewards responsible for protecting the city's water supply.





Water Crisis Extended in Chelsea



к,

18

SLOW ABLUTION

New York Water Systems



WAQF, ENDOWMENT

Waqf "object"

The Waqf is the interface of water; it's the altered landscape and built structures that directs, collects, filters rainwater, run-off water and melted snow in the winter.

Waqf Assets

The waqf will partner with New York department of environmental protection and financed by Zakat Foundation of America who distribute muslims zakat duty for charity projects.

Water is a central charity program of Zakat foundation of America, who has been building water wells around the world. However, the groundwater isn't an inexhaustible resource offered by nature.

At a time of climate crisis, this new type of charity is necessary to help repair the natural hydrologic cycle.



The Waqf, Charitable endowment:

A general feature of Islamic social history, the Waqf produced and financially supported varied architectural typologies serving society's poor and those in need.

The waqf envisions a 15-year plan for Islamberg, beginning with the creation of mini-reservoirs and constructed wetlands. Phase 2 involves the construction of ablution bridges using filtered rainwater, while phase 3 expands into community programs incorporating rainwater harvesting and wastewater filtration systems. Throughout these phases, water wells will be gradually closed.

R

20

Water Conditions in Islamberg



To make water visible in Islamberg, the approach involves redirecting water flow, retaining it in designated areas, and reusing it after filtration processes. Water captured by the wetlands will undergo filtration for daily use. This slowed process introduces an alternative approach to water use, moving away from reliance on wells.

The slowed typology can be adopted in other rural hamlets around the reservoir, with the local community serving as stewards and taking ownership of the reservoir as a shared resource in the future.









Redirect Water Flow



Rain Drop



Community Space

Rain Drop

Bridge over Water





Mosque Plan 1 Mosque 2 Library 3 Ablution Bridge 4 Kitchen 5 Pavilion



Axon over Library, Ablution Bridge and Kitchen Z









к,







Inwood Arc Works intends to create an urban theatre that emphasizes on daily commoning and knowledge sharing that would stitch together the people of Inwood through various performance spaces. The theatre borrows space from a void in-between the sloping terrain. With a system of arcs weaving together experiences of light and performance, it creates a network of spaces for social engagement, information exchange, and for people to celebrate their cultures.

Core I, Fall 2020 Instructor: Josh Uhl Site: Inwood, NYC, USA



Inwood Arc A Sharing Ground



Redefining the Abandoned Path

Western Inwood has a unique natural landscape. The topography, however, disrupts communal continuity. The segregation persists, with Broadway Street and elevated tramway dividing the neighborhood. The Seaman-Drake Arch, once the gate to the hilltop, now offers the opportunity to redefine this abandoned path.

Stair and ramp typologies define and enhance the spaces of the theatre, with each arc serving as a threshold for performances, giving places to stay, and offering various levels of enclosure throughout the day.



Left: Map of Inwood 19th-C arch, Northern Manhattan; sketch Right: Diagrams top to bottom: arcs + roof steps + wall arcs + landscape arcs + steps + vacant lot



Z \gtrsim \bigcirc $^{\circ}$ \geq R Ω

Left: Existing Inwood Arch Inwood base sections, existing landscaping apartment entrance, 215th St. Steps, inbetween self-claimed yards and parking lots

Right: Concept Models theatre outdoor dance floor street level market extension











INWOOD ARC



The tiny clusters reclaim the in-between corners, giving these spaces back to the community and opening up a corridor on each side, creating an extended network of platforms for local exhibition. 35







Top to Bottom: roof terrace, inwood overlook, lower gallery



The Porch is a communal block consisting of a porch over apartment towers to search for new and inclusive frameworks for living in the contemporary city. This communal block fosters a seamless shared porch and a dynamic network of interconnected and potentially nuanced relationships. Within this block, various elements such as furniture, building components, rooms, units, shared amenities, and gardens intertwine to form the foundation for social connections.

Core III, Fall 2021 In collaboration with Priscilla Auyeung Instructor: Eric Bunge Site: Bronx, NY, US



The Porch A Communal Threshold

The "porch": A place for gathering, to connect with the outside, To engage with the street, Mediator of public & private, A threshold.









In the context of mixed environments and cultures, the neighborhoods of the Bronx have historically lacked public spaces. However, with community-owned programs, community gardens, the Bronx Documentary Center, and senior housing, the site presents existing potential for creating inclusive and shared spaces for current residents. It also offers an opportunity to extend the programs of the community space that people have been working on for decades.

41 42 BRONX, NY



THE PORCH







The Porch level is connected to the ground via three towers and existing buildings on the site. Residents share amenities, and community members are welcomed into the garden. The ground floor serves as a communal space for shared interests, family gatherings, and individual wanderings.









Porch Level Combination 300-530 sq. ft per unit









The proposed laboratory-school focuses on studying the city's natural environments, drawing inspiration from its existing geological conditions. It is based on the belief that children can actively interact with and learn through constructed topographical conditions. The design features overlapping playing and learning spaces with research-centric, subject-based programs. The interplay of introduced sloped structures with existing buildings allows for interchangeable programs, offering various modes of habitation.

Core II, Spring 2021 Instructor: Miku Dixit Site: New York, NY



Constructed Grounds Experimental Laboratory-School



New York City, shaped by land formation and geo-processes, serves as a natural history museum in itself. Operating within the city's established network of research centers in earth science and climate studies, the post-carbon school becomes an integral part, functioning as a testing ground. It invites local professionals to contribute to experimentation and discovery.





Ο \bigcirc Ζ \sim Τ R \Box Ω Τ \Box G R \bigcirc \Box Z \Box \sim

51

52











ΤΕD G R \bigcirc \Box Z D

Ρ

Thermal Layering is about rethinking the layers of the interior, creating a spatial-prototype through re-configuration. Working with office-to-housing agendas, the design prioritizes the adaptability of privacy and openness in residential units to varying thermal conditions while minimizing the need for active thermal control. By creating a semi-exterior corridor, the design allows residents to live with the environment by embracing seasonality both indoors and outdoors.

Advanced V, Fall 2023 Instructor: Katie Shima Site: NYC, USA



Thermal Layering An Open Corridor





Communal Space



Corridor Corner



Unit Interior













Hemp-crete

Existing Office Building 550 7th Ave

Planting

Substrate

Recycled Concrete

Rammed Earth





THERM Α ${\boldsymbol{\sqsubset}}$ LA YERIN G





Thermal Layers

Windows being the first, operable layer, allowing natural ventilation. Planting as the second, natural layer, creating indoor micro-climate. The sliding glass doors and paper screen system form the third, also intermediate layer between the unit and the shared corridor, providing controlled privacy to the units.



ТН ER \leq \geq Г LA \prec ERIN Γ

61 62











Upper Level with Micro-Units Lower Level with Offset Corridor



63

ΤΗΕR \leq \geq Г Г \supset \prec ERIN G



Planetary Hermitage Recontextualizing Acrosanti

Architectural Drawing & Representation I, Fall 2020 Critic: Farzin Lotfi-Jam Instructors: Josh Uhl, Lexi Tsien, and Zachary White







Arcosanti, Workshoup and Lanndscape Pencil on paper, Sketch

These drawings explore the visionary project, Arcosanti, by architect Paolo Soleri, who relentlessly pursued archology.













1. Concrete Slab

01 I-Beam 02 Steel Pourstop 03 Metal Deck 04 Rebar 05 Deck Fasterer 06 Steel Plate 07 Pour Concrete 08 Base Plate 09 Pour Concrete 10 Curtain Wall Unit

2. Two-Way Horizontal

11 Typical Female Mullion 12 Typical Male Mullion 13 Vertical Fin Blade 14 Spandrel Glass 15 Lift/Alignment Lug 16 Anti-Buckling Clip 17 Structural Silicone

3. Two-Way Vertica

18 Silicone Weatherseal Shop Applied 19 Structural Silicone 20 Rainscreen Gasket Shop Attached 21 Head Horizontal at Stack Joint 22 Gutter Horizontal at Stack Joint 23 Sill Horizontal at Stack Joint 24 Lift/Alignment Lug

4. Fireproofing and Insulation

25 Cont. Angle for Firesafing Support 26 Impaling Pin and Self-Locking Clip Washers 27 3" Thermafiber Firespan Foil Backed Insulation 28 Firesafing Insulation 29 Smoke Seal 30 Gypsum Board

Four-Way Commercial Curtain Wall Assembly

Architecture Technology V, Spring 2022 In Collaboration with Lucas Pereira, Elena Yu, Mingyue Zhang Instructor: Nicole M. Dosso