Fucu di San Nicolas

The Hauntings of Colonization

P5 Graduation Presentation — Explore Lab 39

Carlo Profet

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TU Delft






ARUBA
one happy isla
TOSHIBA
Heineken
CONVERSE
FATUM
SEBASTIANI
XEROX
Budget
Tinkers
THIRST AID STATION
ESSO
LA PALOMA
BUCCANEER
FRIENDLY TOURS
ADVENTURE GOLF
BACARDI
AMSTEL BEER
TWINS OVER ARUBA CHARTER
TOPGUN


One
HOPE
ART
Island

Problem of Erasure

Aruba y Hulanda a anuncia cu ta bay desmantela refineria na San Nicolas

2025-11-10

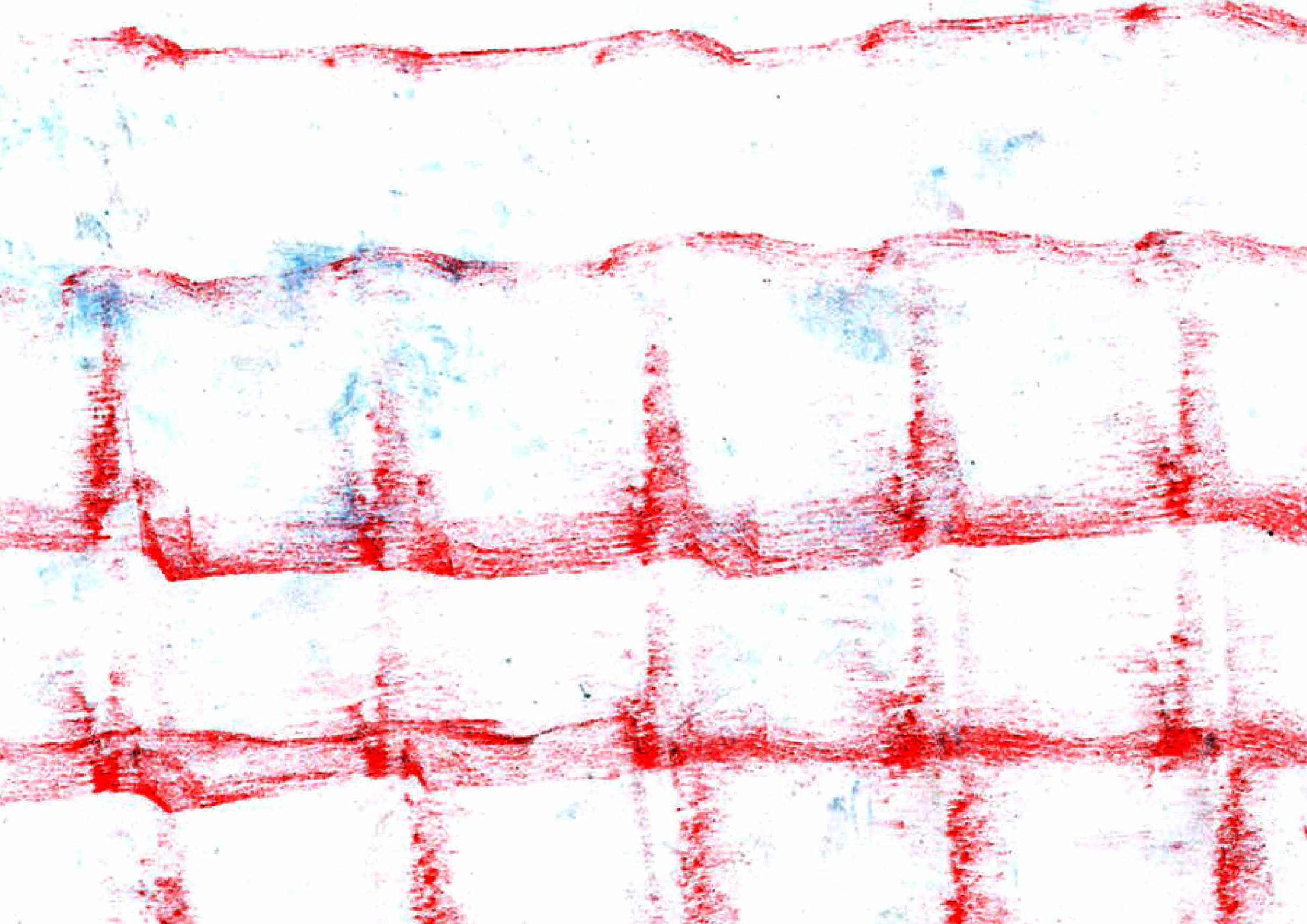


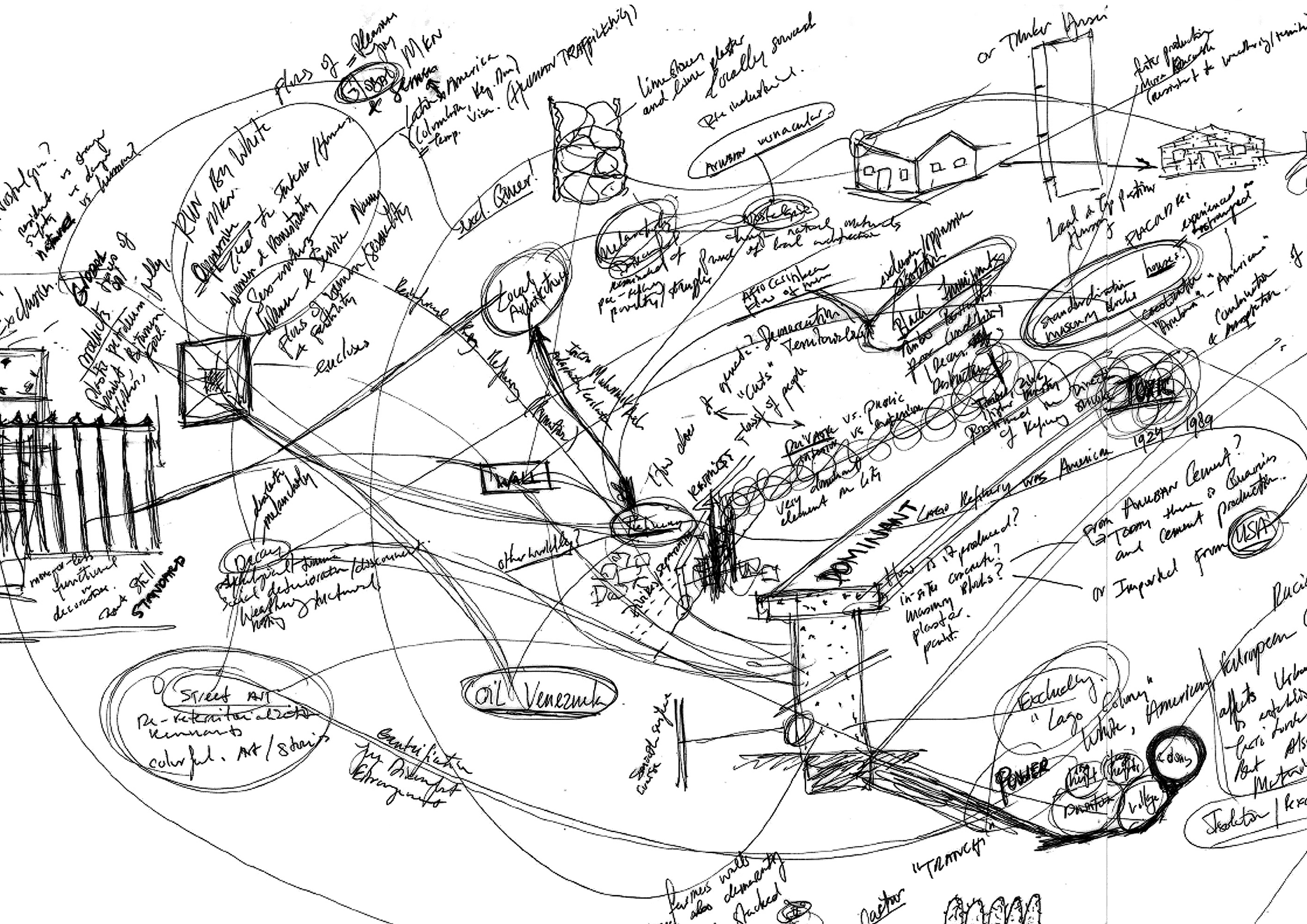
Zondag 9 november, 09:01

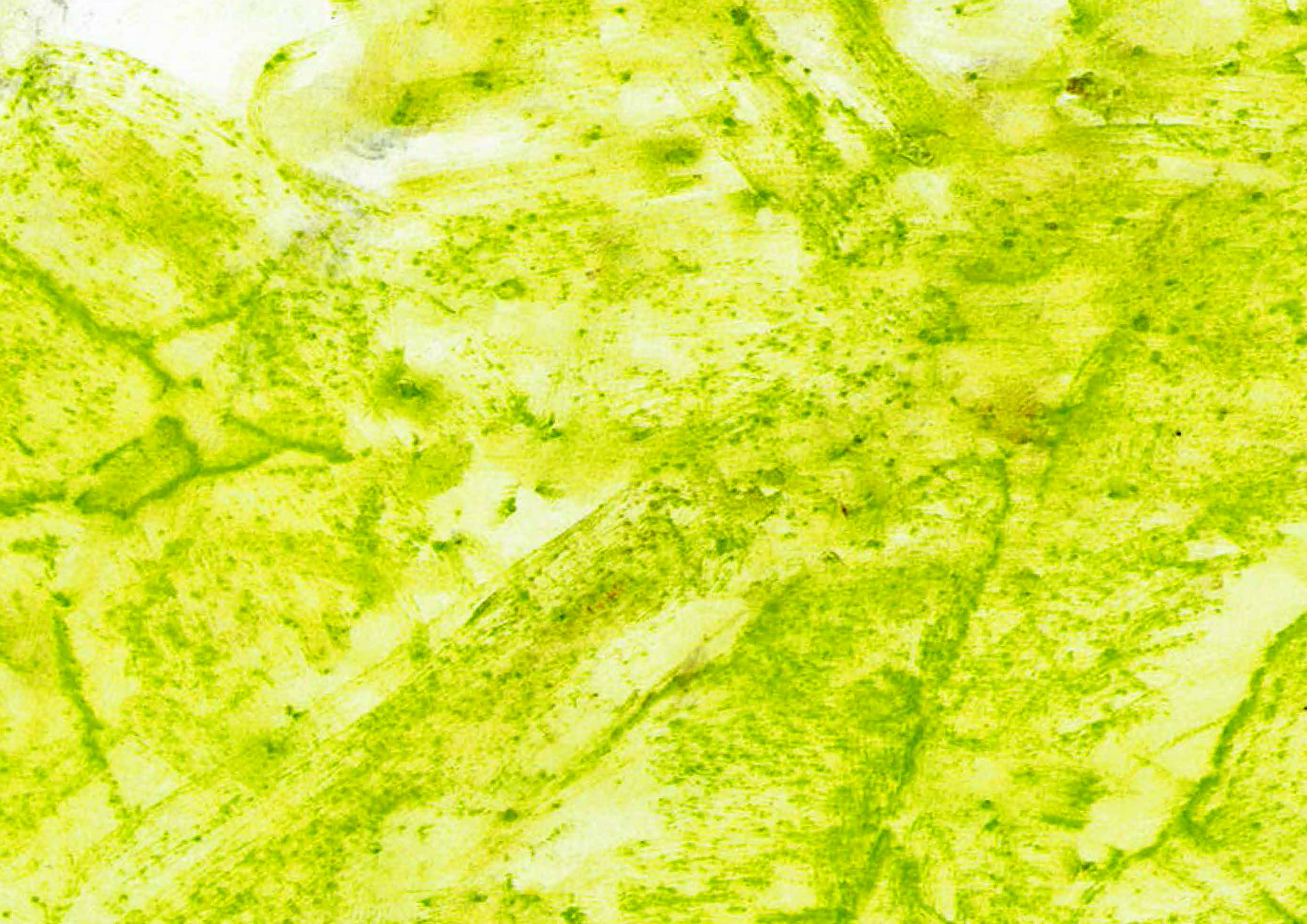
Raffinaderij op Aruba gaat definitief dicht, Nederland helpt bij ontmanteling

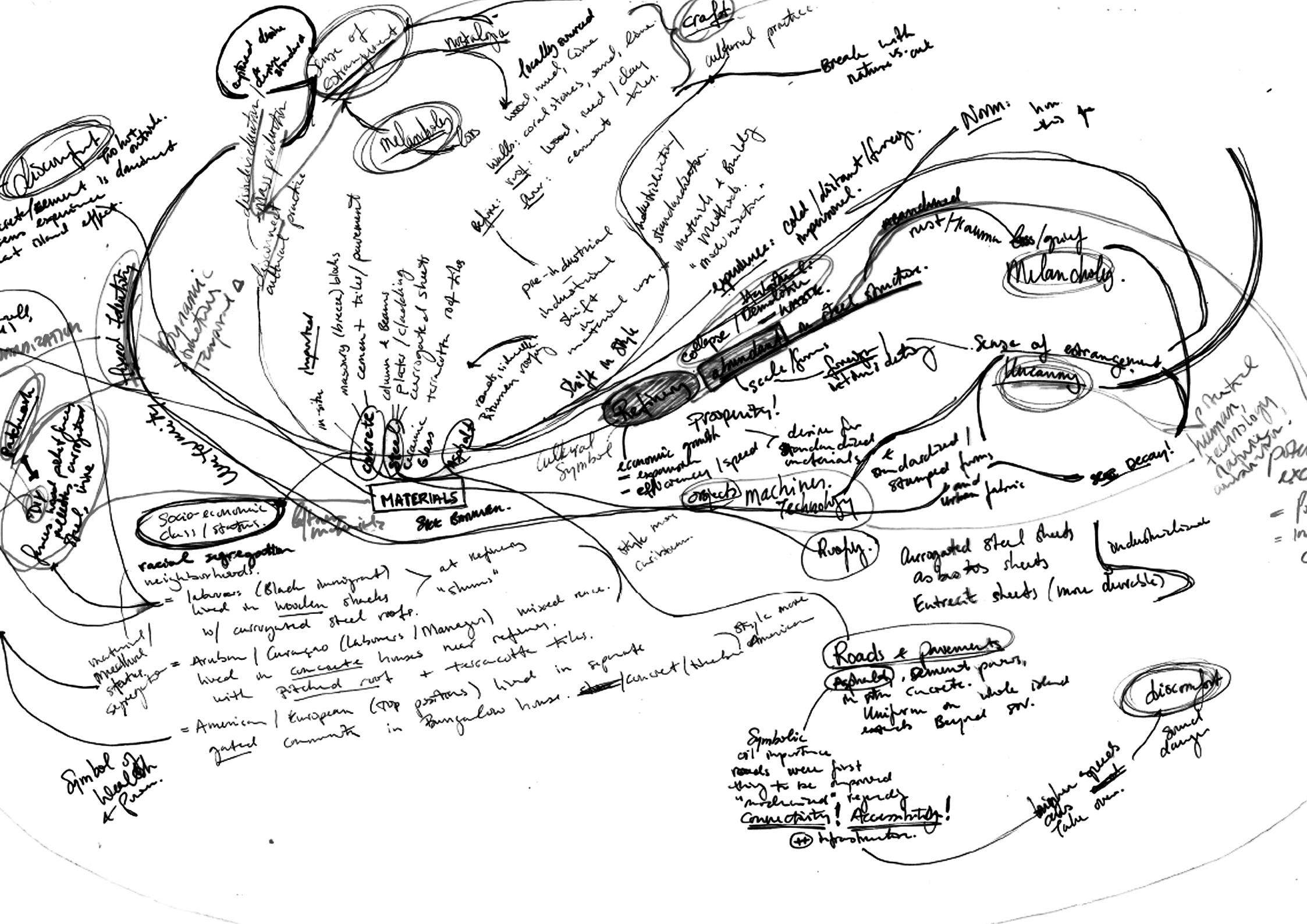
Gobierno di Aruba ta inicia un proceso pa desaroya e tereno di Refineria di San Nicolas

2025-12-10




Street Art
Re-territorialized
Remnants
colorful. Art / Stories
Oil Venezuela
DOMINANT
Cargo Refinery
Local Artists
Excluded
"Lago Colony"
White, American
POWER
Decay
Abandoned Homes
Social deterioration
Weathering structural
Gentrification
Displacement
Environments
Barriers
Fences walls
also elements
stacked
Factor
TRANSCEND
Oil
Gasoline
Plastics
Fertilizers
Pharmaceuticals
Detergents
Synthetic rubber
Explosives
Dyes
Solvents
Petrochemicals
Asphalt
Lubricants
Waxes
Jet fuel
Kerosene
Diesel fuel
Fuel oils
Naphtha
Liquefied petroleum gases
Refinery gases
Crude oil
Natural gas
Natural gas liquids
Petroleum
Coal
Lignite
Peat
Coke
Coal tar
Coal gas
Ammonia
Benzene
Toluene
Xylene
Naphthalene
Phenol
Cresol
Cumene
Cyclohexane
Ethylbenzene
Styrene
Vinyl chloride
Ethylene
Propylene
Butadiene
Methanol
Acetic acid
Acetone
Formaldehyde
Ethylene oxide
Ethylene glycol
Glycerol
Adipic acid
Caprolactam
Phthalic anhydride
Maleic anhydride
Terephthalic acid
Dimethyl terephthalate
Isophthalic acid
Aniline
Methylene diphenyl diisocyanate
Toluene diisocyanate
Hexamethylene diamine
Polyethylene
Polypropylene
Polystyrene
Polyvinyl chloride
Polyvinyl acetate
Polyvinyl alcohol
Polyacrylonitrile
Polyacrylates
Polyesters
Polyamides
Polyurethanes
Polycarbonates
Polyacetals
Polyimides
Polysulfones
Polyphenylene oxide
Polyphenylene sulfide
Polytetrafluoroethylene
Silicones
Epoxy resins
Phenolic resins
Urea-formaldehyde resins
Melamine resins
Alkyd resins
Unsaturated polyesters
Cellulose acetate
Cellulose nitrate
Ethyl cellulose
Carboxymethyl cellulose
Rayon
Acrylic fibers
Nylon
Polyester fibers
Spandex
Elastomers
Natural rubber
Styrene-butadiene rubber
Nitrile rubber
Chloroprene rubber
Butyl rubber
Ethylene-propylene rubber
Polysulfide rubber
Urethane rubber
Silicone rubber
Fluoroelastomers
Thermoplastic elastomers
Adhesives
Sealants
Coatings
Inks
Dyes
Pigments
Surfactants
Detergents
Emulsifiers
Dispersants
Flocculants
Coagulants
Plasticizers
Stabilizers
Antioxidants
Antiozonants
Flame retardants
Blowing agents
Foaming agents
Curing agents
Cross-linking agents
Catalysts
Initiators
Inhibitors
Chain transfer agents
Monomers
Oligomers
Prepolymers
Resins
Polymers
Copolymers
Terpolymers
Graft copolymers
Block copolymers
Random copolymers
Alternating copolymers
Stereoregular polymers
Isotactic polymers
Syndiotactic polymers
Atactic polymers
Linear polymers
Branched polymers
Cross-linked polymers
Network polymers
Ladder polymers
Semi-ladder polymers
Thermosetting polymers
Thermoplastic polymers
Elastomeric polymers
Fibrous polymers
Film-forming polymers
Water-soluble polymers
Water-insoluble polymers
Biodegradable polymers
Photodegradable polymers
Conductive polymers
Piezoelectric polymers
Pyroelectric polymers
Ferroelectric polymers
Liquid crystal polymers
Optical polymers
Electrical polymers
Magnetic polymers
Thermal polymers
Mechanical polymers
Rheological polymers
Surface polymers
Interfacial polymers
Colloidal polymers
Dispersion polymers
Emulsion polymers
Suspension polymers
Solution polymers
Bulk polymers
Gas-phase polymers
Supercritical polymers
Ionic polymers
Coordination polymers
Metallocene polymers
Ziegler-Natta polymers
Free-radical polymers
Anionic polymers
Cationic polymers
Step-growth polymers
Chain-growth polymers
Addition polymers
Condensation polymers
Ring-opening polymers
Ring-closing polymers
Metathesis polymers
Polymerization
Depolymerization
Recycling
Upcycling
Downcycling
Biodegradation
Photodegradation
Oxidation
Reduction
Hydrolysis
Hydrogenation
Dehydrogenation
Halogenation
Dehalogenation
Nitration
Sulfonation
Amination
Alkylation
Dealkylation
Acylation
Deacylation
Esterification
Saponification
Transesterification
Amidation
Imidation
Cyclization
Dehydration
Condensation
Addition
Elimination
Substitution
Rearrangement
Isomerization
Tautomerization
Resonance
Aromaticity
Antiaromaticity
Conjugation
Hyperconjugation
Inductive effect
Mesomeric effect
Steric effect
Electronic effect
Hydrogen bonding
Van der Waals forces
Dipole-dipole interactions
London dispersion forces
Ion-dipole interactions
Ion-ion interactions
Covalent bonding
Ionic bonding
Metallic bonding
Coordinate bonding
Hydrogen bonding
Pi bonding
Sigma bonding
Delta bonding
Phi bonding
Resonance hybrid
Molecular orbital theory
Valence bond theory
Crystal field theory
Ligand field theory
Band theory
Semiconductor
Insulator
Conductor
Superconductor
Quantum mechanics
Wave-particle duality
Uncertainty principle
Schrödinger equation
Hamiltonian
Eigenvalue
Eigenfunction
Wavefunction
Probability density
Electron density
Nuclear magnetic resonance
Electron paramagnetic resonance
Mössbauer spectroscopy
Photoelectron spectroscopy
Auger electron spectroscopy
X-ray diffraction
Neutron diffraction
Electron diffraction
Scanning tunneling microscopy
Atomic force microscopy
Scanning electron microscopy
Transmission electron microscopy
Optical microscopy
Fluorescence microscopy
Confocal microscopy
Raman spectroscopy
Infrared spectroscopy
Ultraviolet-visible spectroscopy
Circular dichroism
Optical rotatory dispersion
Polarimetry
Refractometry
Interferometry
Ellipsometry
Reflectometry
Scattering
Diffraction
Absorption
Emission
Fluorescence
Phosphorescence
Chemiluminescence
Bioluminescence
Electroluminescence
Photoluminescence
Thermoluminescence
Triboluminescence
Sonoluminescence
Radioluminescence
Cathodoluminescence
Crystallography
Spectroscopy
Spectrometry
Chromatography
Electrophoresis
Ultracentrifugation
Dialysis
Filtration
Sedimentation
Flocculation
Coagulation
Emulsification
Homogenization
Sonication
Milling
Grinding
Crushing
Pulverization
Calcination
Roasting
Smelting
Refining
Alloying
Forging
Casting
Welding
Soldering
Brazing
Riveting
Bolting
Screwing
Nailing
Gluing
Taping
Painting
Coating
Plating
Anodizing
Galvanizing
Tinning
Passivation
Corrosion
Oxidation
Reduction
Electrolysis
Electroplating
Electrorefining
Electrowinning
Electrochemical machining
Electrical discharge machining
Laser cutting
Water jet cutting
Plasma cutting
Flame cutting
Arc welding
Resistance welding
Gas welding
Laser welding
Electron beam welding
Ultrasonic welding
Friction welding
Explosion welding
Diffusion bonding
Soldering
Brazing
Riveting
Bolting
Screwing
Nailing
Gluing
Taping
Painting
Coating
Plating
Anodizing
Galvanizing
Tinning
Passivation
Corrosion
Oxidation
Reduction
Electrolysis
Electroplating
Electrorefining
Electrowinning
Electrochemical machining
Electrical discharge machining
Laser cutting
Water jet cutting
Plasma cutting
Flame cutting
Arc welding
Resistance welding
Gas welding
Laser welding
Electron beam welding
Ultrasonic welding
Friction welding
Explosion welding
Diffusion bonding



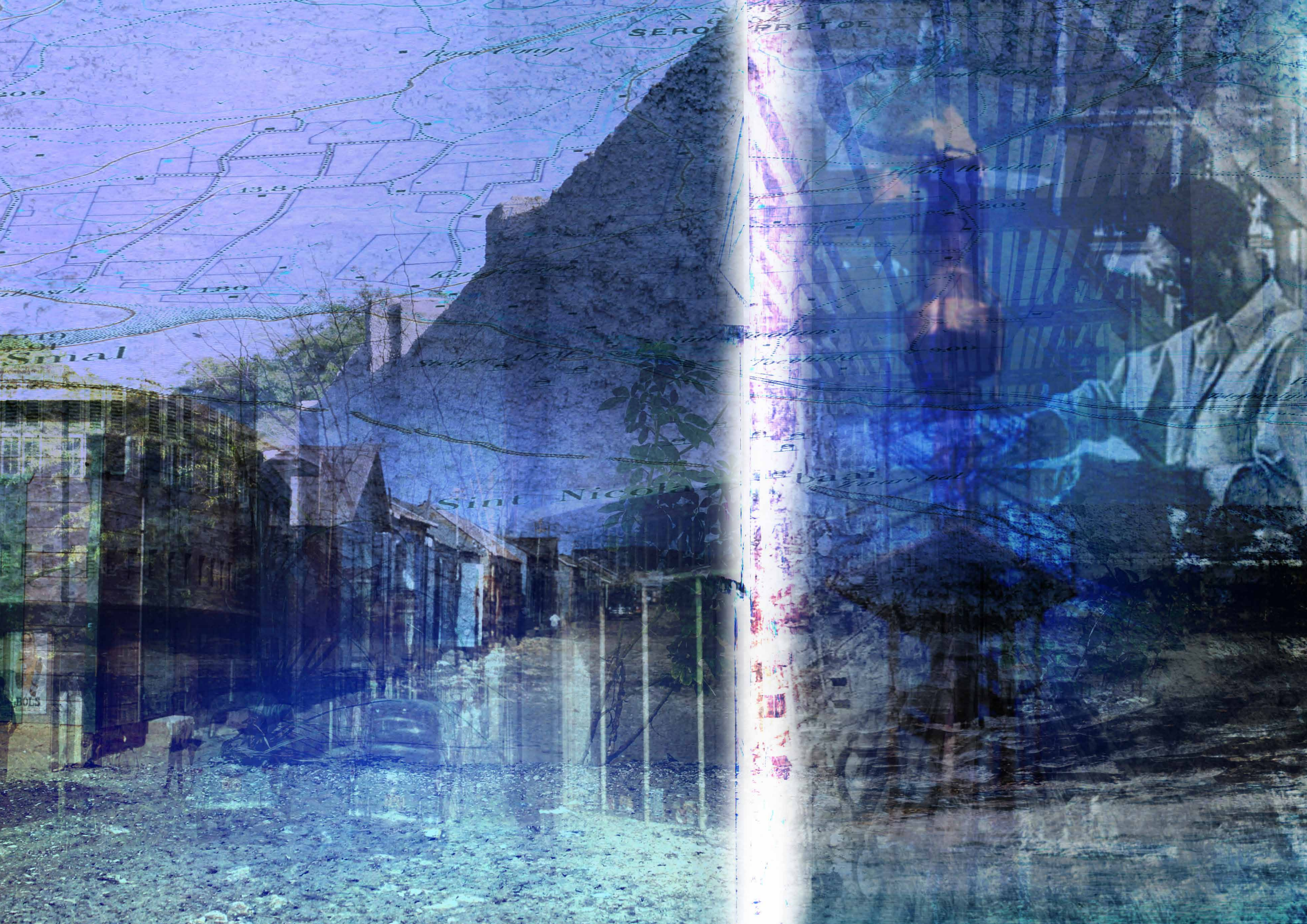

Sense of estrangement
nostalgia
locally sourced
wood, mud, lime
walls: coral stones, sand, lime
roof: wood, reed / clay tiles.
floor: cement
craft
cultural practice
Break with nature vs. art
Melancholy
Loss
Discomfort
Norm:
cold / distant / grey
expendence:
Uncanny
Sense of estrangement
MATERIALS
Concrete
Steel
Ceramic
Glass
Asphalt
Refinery
Machines. Technology
Objects
Economic growth
= expansion
- efficiency / speed
desire for standardized materials
standardized / stamped forms and urban fabric
Property!
Decay!
Roofs.
Corrugated steel sheets
asbestos sheets
Enteract sheets (more durable)
Roads & pavements
Asphalt, cement pavers, in plain concrete.
Uniform on whole island
Beyond DIY.
Symbolic
Connectivity!
Accessibility!
Infrastructure
Symbol of Wealth & Power.
Socio-economic class / status.
racial segregation
neighborhoods.
= Arubans / Curaçao (Laborers / Managers) mixed race.
lived in concrete houses near refinery.
with pitched roof + terracotta tiles.
= American / European (Top positions) lived in separate
gated community in Bungalow houses.
Style more American
= laborers (Black immigrant)
lived in wooden shacks
w/ corrugated steel roofs.
at refinery "slums"
Style more Caribbean
Pathways
DIY
Fences
Steel
Wall
Shift in Style
Cultural Symbol
Roads; shingle, Bitumen roofing
Pre-industrial
Industrial
Shift in material use
Corrugated steel sheets
Asbestos sheets
Concrete
Column & Beams
Plates / cladding
Corrugated steel sheets
Terracotta roof tiles
Imported
masonry (brick) blocks
cement + tiles / pavement
Dynamic
Interactions
Transparent
Fixed Industries
Displacement
cultural practice
Discomfort
Create / Element is dominant
Uncanny
Sense of estrangement
Melancholy
Loss / grief
Trauma
Norm:
Collapse / Demolition
Height
Demolition
Wreck
Standardized
Steel Structure
Scale / forms
Symbolic
Oil industries
roads were first
thing to be improved
"modernized" regardly
Connectivity!
Accessibility!
Infrastructure
Roads & pavements
Asphalt, cement pavers,
in plain concrete.
Uniform on whole island
Beyond DIY.
Discomfort
Source
danger
Infrastructure speeds
cars
take over.



Problem-Questions

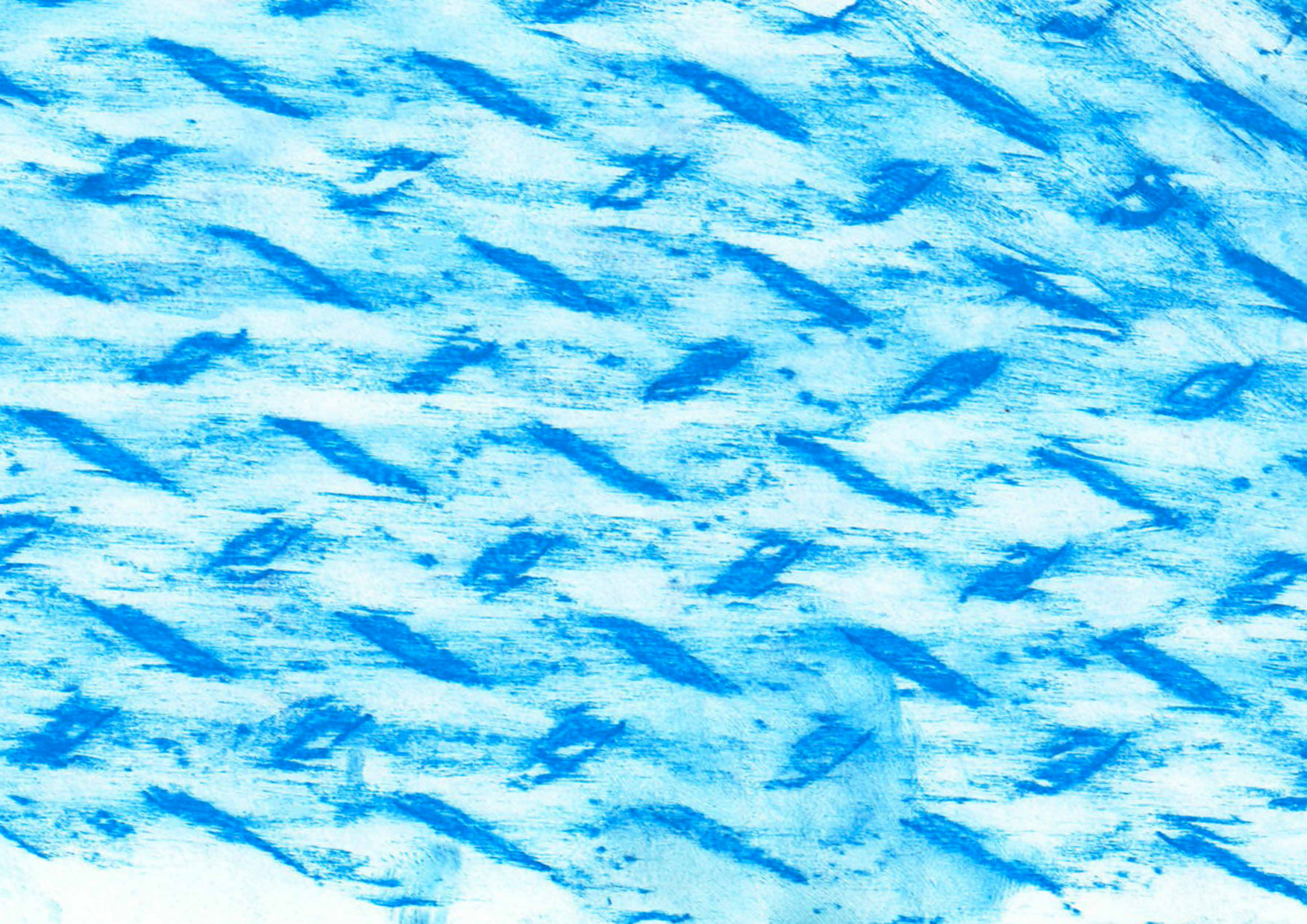
How can hauntology help foster response-ability towards the ongoing injustices of colonization?

- How do fucus (specters) haunt the material and immaterial flows of disturbed sites? What affects do they produce?
    - How can we reveal and revalue these fucus (specters) haunting disturbed sites to produce new modes of ethopoietic co-habitation?
- How can architecture ground itself into the assemblage of a San Nicolas yet-to-come?


SEROE PRETOE
Smal
Sint Nicolaas baai



The Limit of Representation: Imposed Fixed Identity and the Inescapable Decay



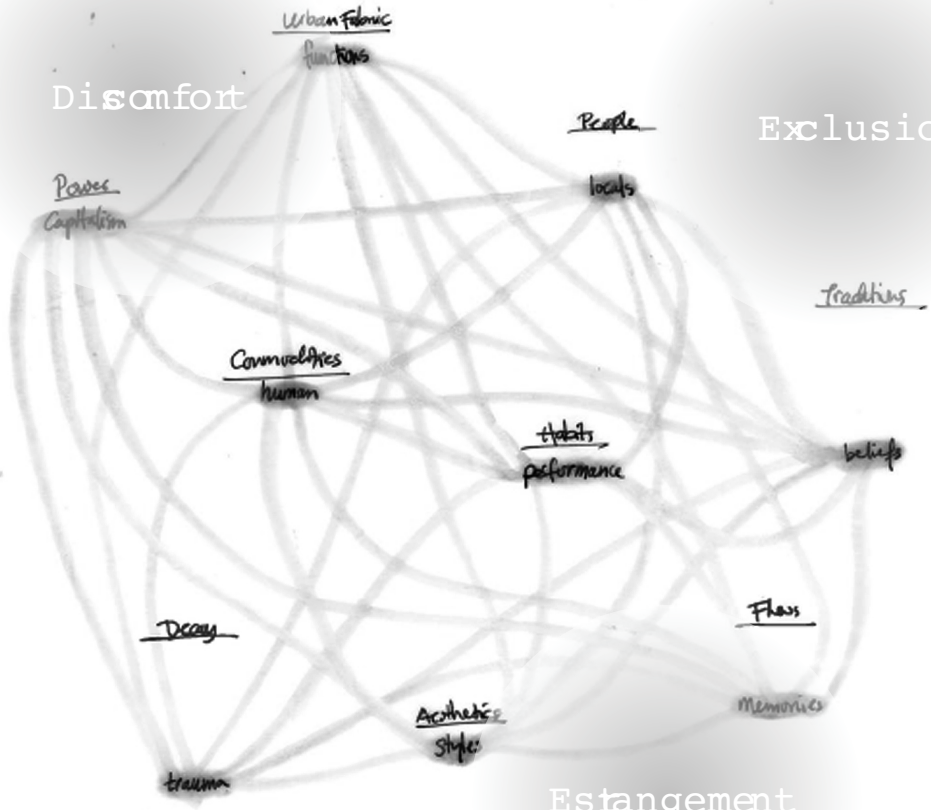
Functions
* Industrial, Household, Agriculture, Horeca, Sexwork
enforce / facilitates
sanitate / essentialist values.

Capitalism Capture & oppress
* Exploitation of humans as capital.
* Recoding / recoding
→ essentialist / transcendental ideology.
* Cultural Amnesia
* Laws / policies

locals recoded.
* Internalize amnesia, repeats habit
* Oppress / discriminate / exploit "others"

Performance
* women in house
* Black women as caretaker / [illegible]

Beliefs
* stereotypes racial / gender / sexuality / count
* Racial stratification: colonism.

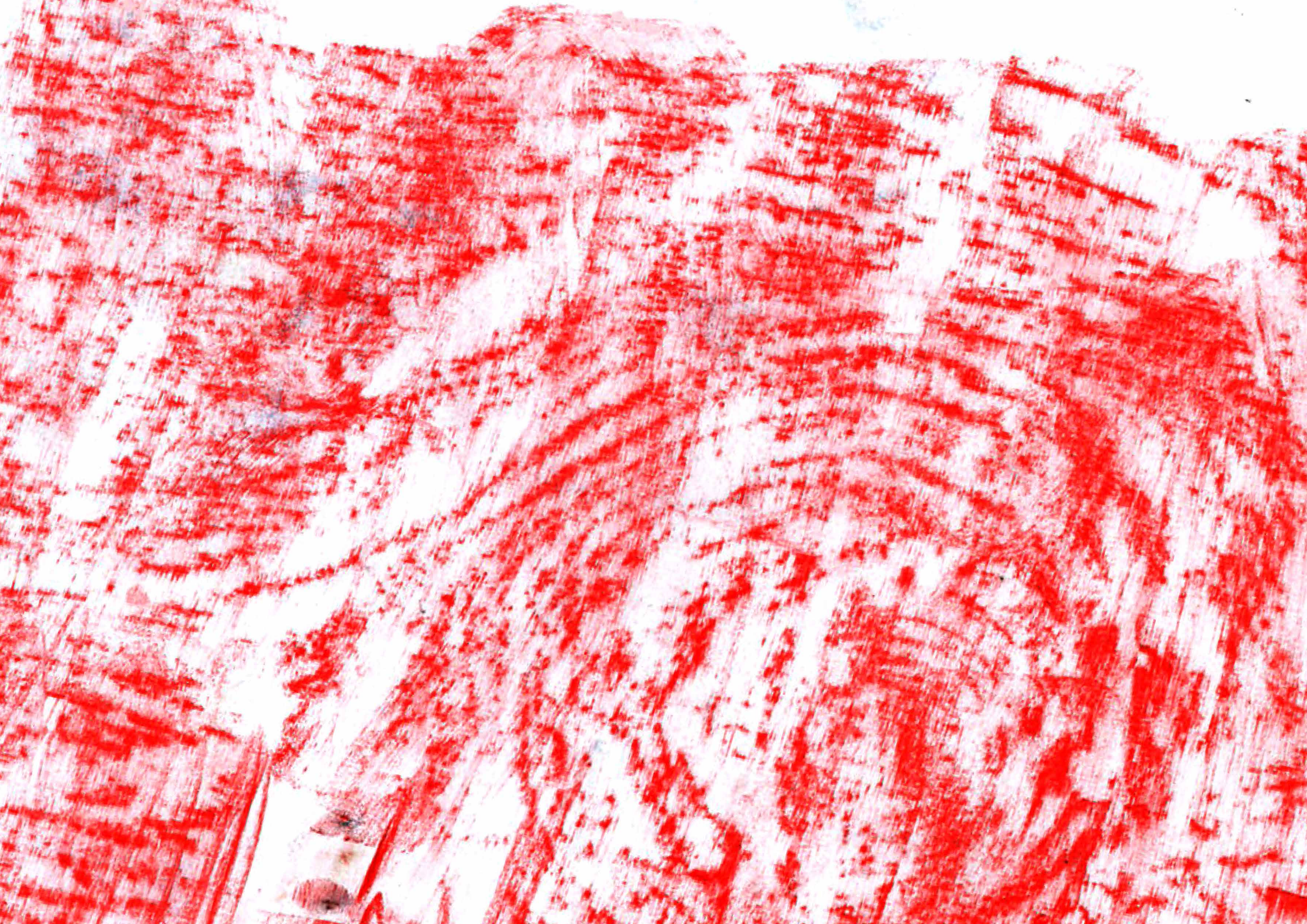


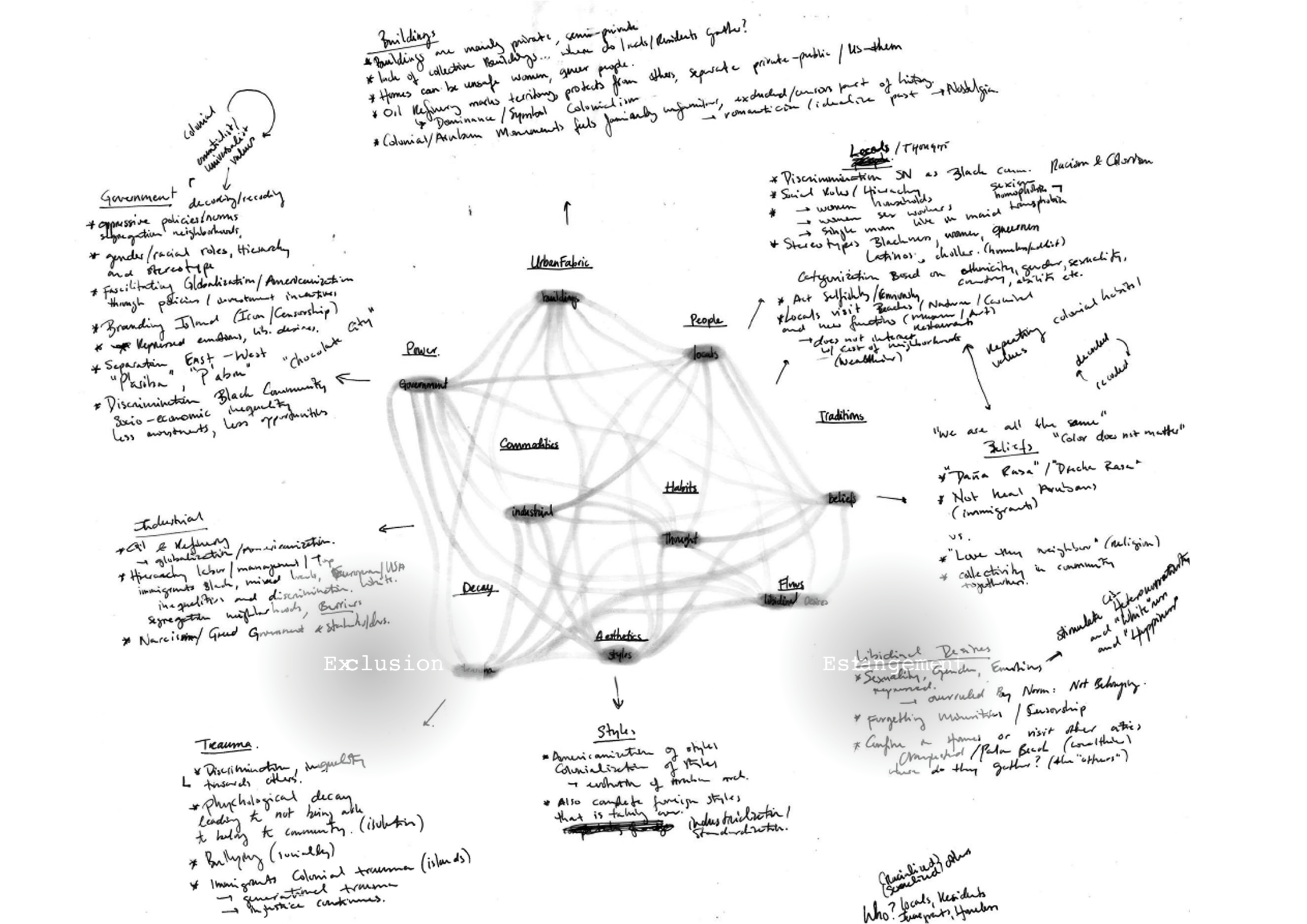
Human Commodities
* Slavery (colonial), (Lago)
* Mass-Migration
* Human Trafficking (Lago-today) } labor - hotels - industrial - sexwork - domestic
exploitation, oppression, repression

memories
* Amnesia (colonial) allows history to repeat ... not coming to terms.
cannot relate because it "never happened."

TRAUMA:
* psychological pain, suffering, shame
isolation, not Belonging, Restrained
* Lack of Resolution.

Styles
* Romantization Past (Styles)
* Globalization & Standardization (Icons not adapting) } hinders
* Creolization styles




Buildings
* Buildings are mainly private, semi-private
* Lack of collective Buildings... where do locals/Residents gather?
* Homes can be unsafe women, queer people.
* Oil Refinery marks territory, protects from others, separate private-public / Us-them
* Dominance / Symbol Colonialism
* Colonial/Arubian Monuments feels familiarly unfamiliar, excluded/censors part of history.
→ romanticism (idealize past → Nostalgia
Locals / Thought
* Discrimination SN as Black Comm. Racism & Colorism
* Social Roles / Hierarchy
* → women households
→ women sex workers
→ single man live in maid
sexism homophobia transphobia
* Stereotypes Blackness, women, queerness
Latinos, cholles. (homeless/addict)
Categorization Based on ethnicity, gender, sexuality, country, ability etc.
* Act Selfishly / Ignorantly
* Locals visit Beaches / Nature / Carnival and new functions (museum / Art) restaurants
→ does not interact w/ cost of neighborhoods (wealthier)
Repeating colonial habits!
values
decoded
recoded
Government
colonial
essentialist/universalist
values
decoding/recoding
* oppressive policies/norms
segregation neighborhoods,
* gender/racial roles, Hierarchy and stereotype
* Facilitating Globalization / Americanization through policies / investment incentives
* Branding Island (Iron / Censorship)
* Repressed emotions, lib. desires.
* Separation East - West "Pariba", "Pabon" "Chocolate City"
* Discrimination Black Community
Socio-economic inequality
less investments, less opportunities
UrbanFabric
buildings
People
locals
Power
Government
Commodities
industrial
Habits
Thought
Traditions
beliefs
Flows
libidinal Desires
Decay
Aesthetics
styles
Trauma
Exclusion
Estangement
"We are all the same"
"Color does not matter"
Beliefs
* "Daña Rasa" / "Dreche Rasa"
* Not real Arubans (immigrants)
vs.
* "Love thy neighbor" (Religion)
* collectivity in community togetherness.
Industrial
* Oil & Refinery
→ globalization / Americanization.
* Hierarchy labor / management / Top
immigrants Black, mixed locals, European/USA White.
inequalities and discrimination.
segregation neighborhoods, Barriers
* Narcissism / Greed Government & stakeholders.
Libidinal Desires
* Sexuality, Gender, Emotions
repressed.
→ overruled By Norm: Not Belonging.
* Forgetting Minorities / Censorship
* Confine in Homes or visit other cities
Orangestad / Palm Beach (wealthier)
where do they gather? (the "others")
stimulate cis-Heteronormativity and "White"ness and "Happiness"
Trauma.
* Discrimination, inequality towards others.
* Psychological decay leading to not being able to belong to community. (isolation)
* Bullying (socially)
* Immigrants Colonial trauma (islands)
→ generational trauma
→ injustice continues.
Styles
* Americanization of styles
Colonialization of styles
→ evolution of Arubian arch.
* Also complete foreign styles that is taking over.
industrialization / standardization.
(Racialized) (Sexualized) others
Who? locals, Residents
Immigrants, Homeless



Project Site

Political Value: limit of control and separation



The Wall: 7km East to West



The Limit of Control: Highly Controlled Human Flows & Free Flowing Ecological Flows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Political Value: post-industrial site facing erasure


1.


2.


3.


4.


5.

Area: 3,4km²

Estimated steel: ±307.000 tons

Machines (incl. pipes): ±1.738.000 tons
Tanks: ±42.000 tons (80 tanks)
Pipes: ±265.000 tons (±265km)



The Limit of Abandonment: Devaluation and Erasure of the More-Than-Human Heritage

Ecological Values: psycho–social–environmental destruction



6.



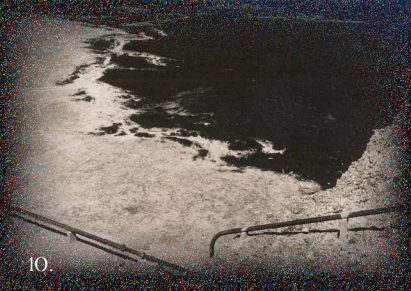
7.



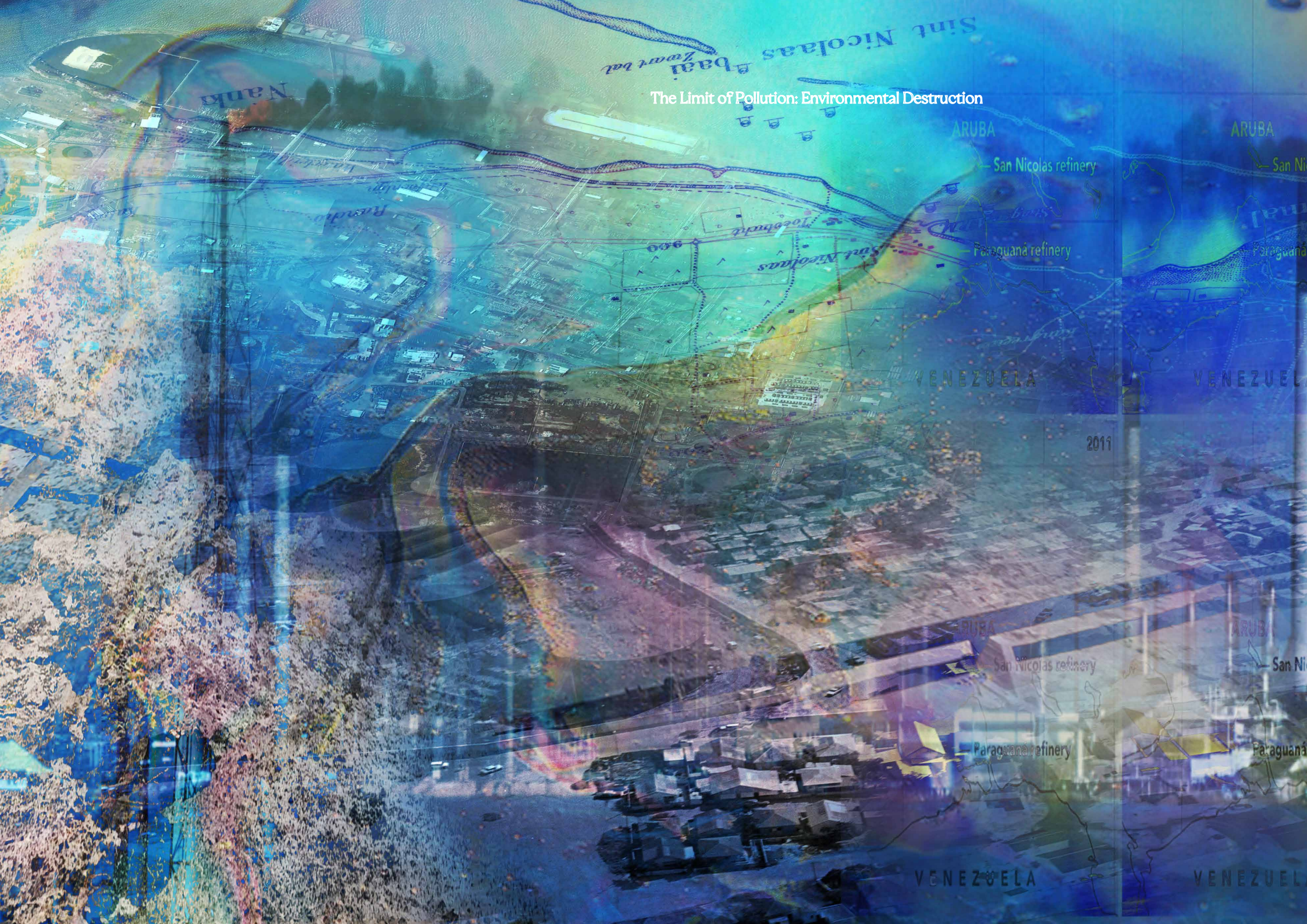
8.



9.



10.


The Limit of Pollution: Environmental Destruction
ARUBA
San Nicolas refinery
Paraguana refinery
VENEZUELA
2011



The Limit of Pollution: Social Health Problems and Deaths

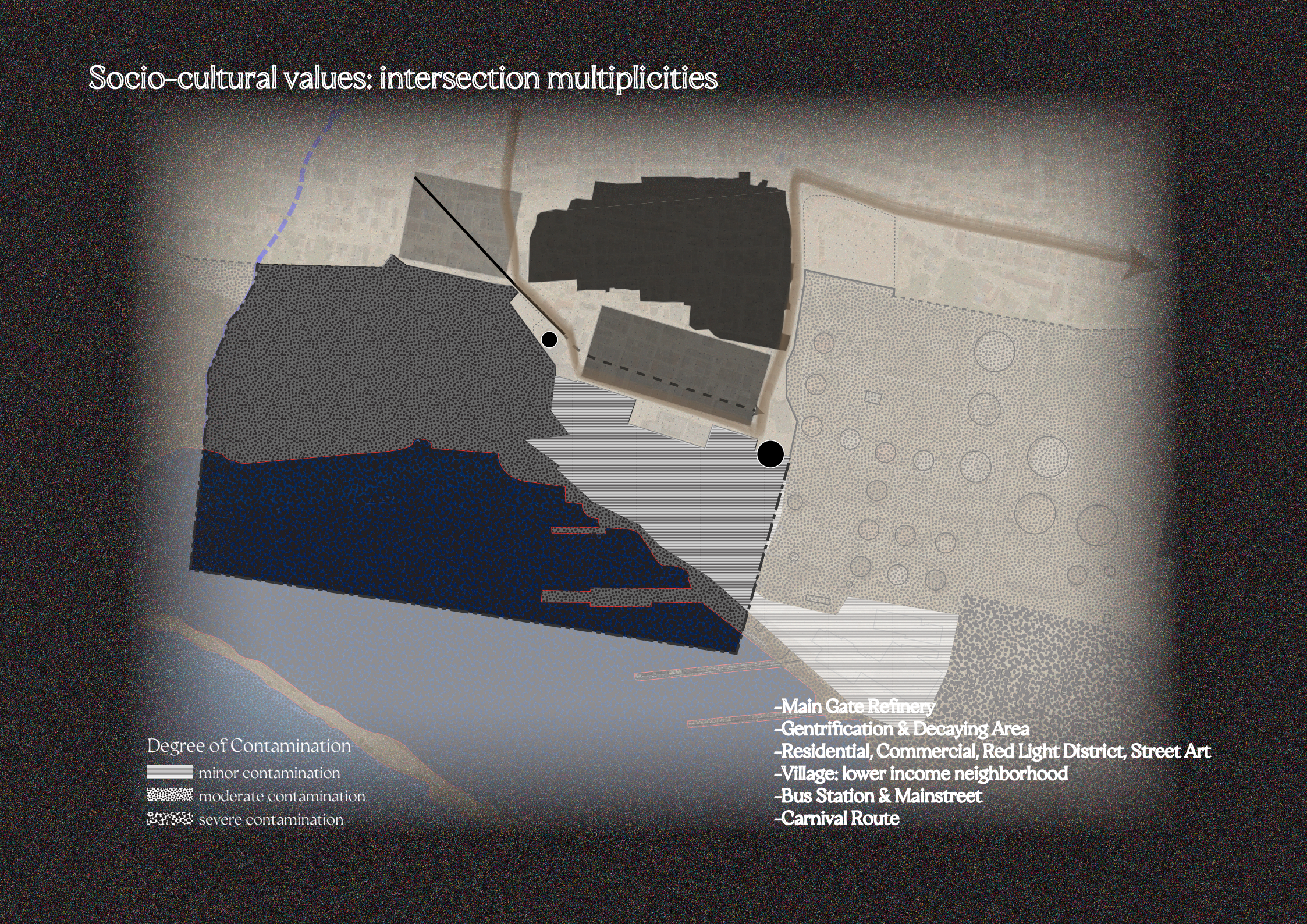
Threshold Value: the weakest point of the site



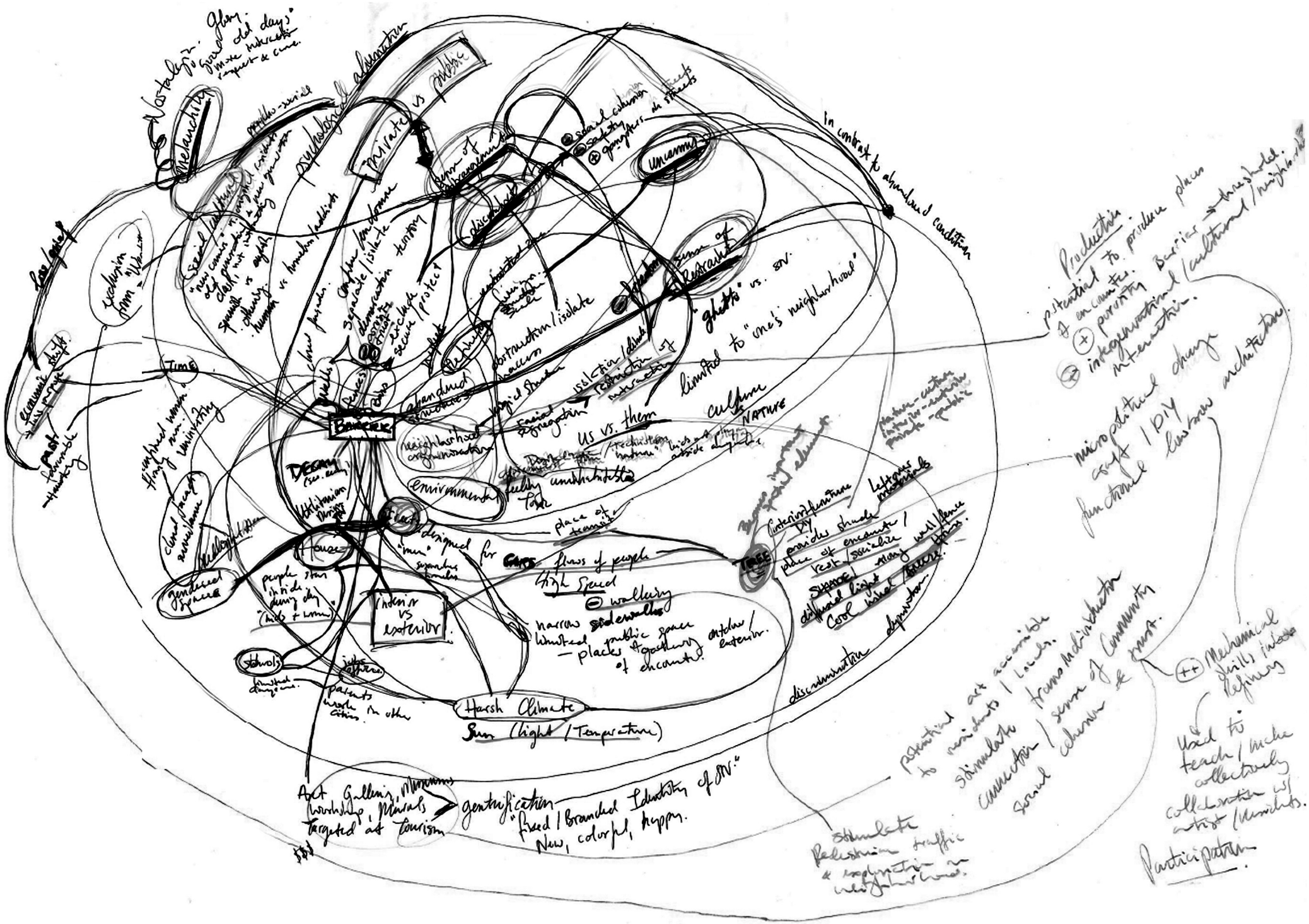
Site-Selection: the weakest point in Downtown

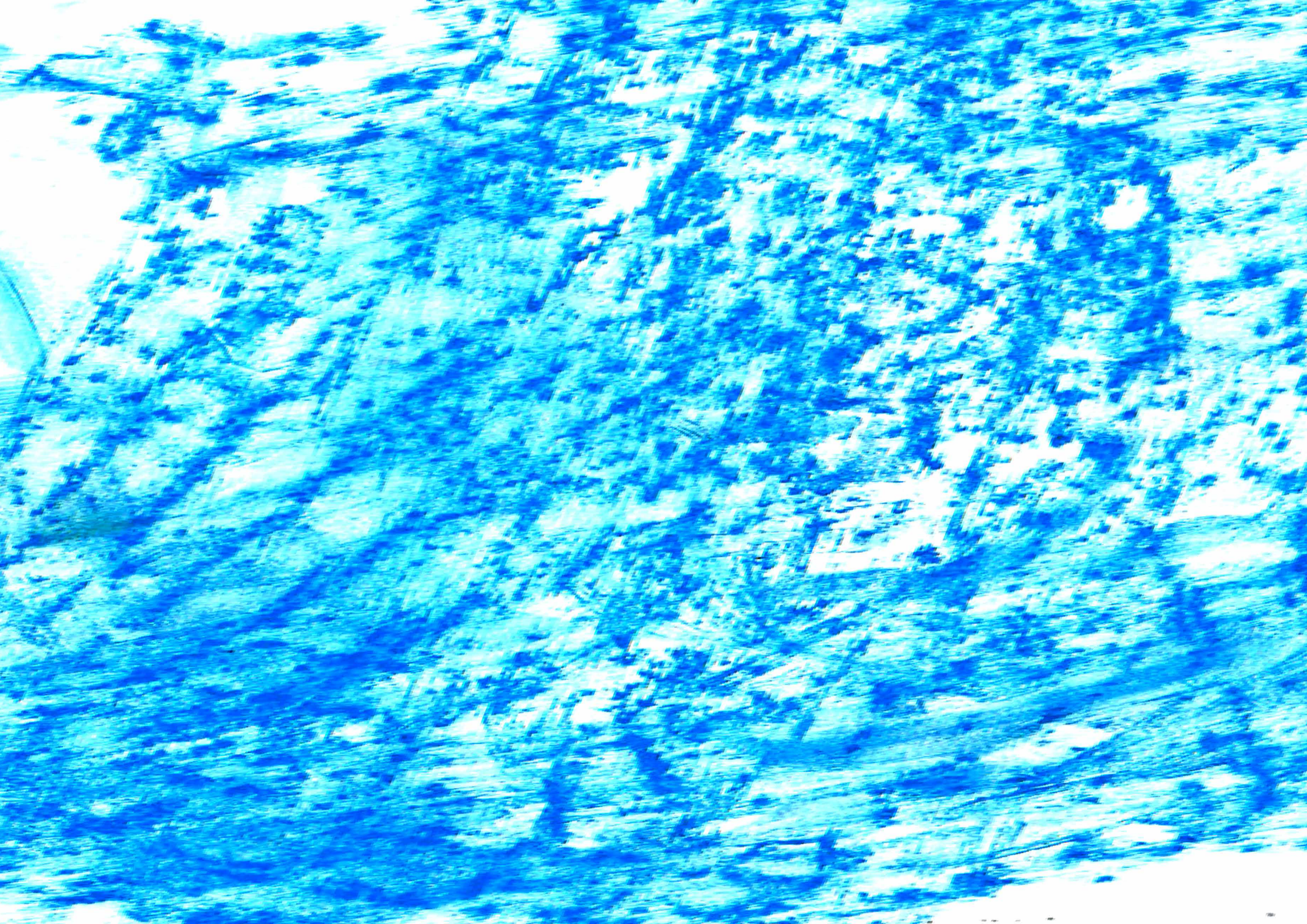


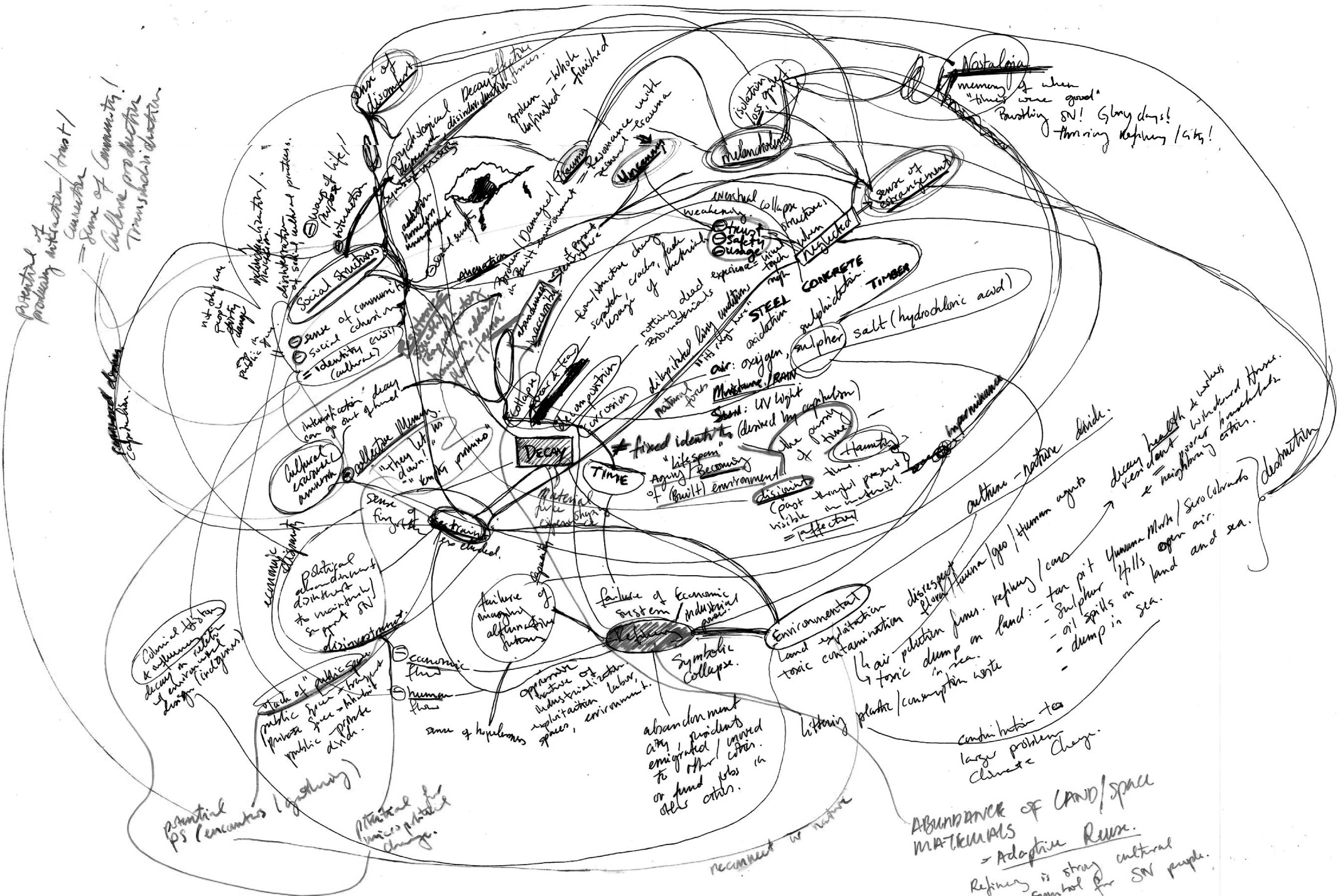
Socio-cultural values: intersection multiplicities






Nostalgia
Glory
good old days
more interaction
respect & care
Melancholia
psycho-social
psychological alienation
private vs public
sense of
social cohesion
safety
gangsters on streets
uncanny
in contrast to abandoned condition
low grief
economic shift
past
favorable
Haunting
exclusion from "Utopia"
TIME
confined women
finally men
uninviting
closed facade
surveillance
gendered space
BARRIER
DECAY
(sec. city)
Utilitarian
Design
Fences
Walls
abandoned structures
construction/isolate
access
rigid structure
isolation/limit
restriction of
interaction
limited to "one's neighborhood"
"ghetto" vs. SN
sense of
Restraint
Us vs. them
culture
NATURE
neighborhood
organization
racial
segregation
environmental
feeling uninhabitable
place of
transit
designed for
CARS
flows of people
High Speed
wallking
narrow sidewalks
limited public space
— places of gathering
of encounter
outdoor/
exterior
House
people stay
inside
during day
(kids + women)
interior
vs
exterior
stoops
limited
daycare
jobs
offices
parents
work
in other
cities
Harsh Climate
Sun (light / Temperature)
discrimination
deprivation
TREE
Interior furniture
DIY
Leftover materials
provides shade
place of encounter /
rest / socialize
SHADE
diffused light
Cool wind / breeze
Art Galleries, Museums
Workshops, Murals
Targeted at Tourism
gentrification
"fixed / Branded Identity of SN"
New, colorful, happy.
Production
potential to produce places
& encounters.
(+) porosity. Barriers → thresholds.
(+) intergenerational / cultural / neighborhood
interaction.
micropolitical change
soft / DIY
functional low-brow architecture.
(++) Mechanical
skills
Refining
Used to
teach / make
collectively
collaboration w/
artist / residents.
Participation
potential act accessible
to residents / locals.
stimulate transindividuation
connection / sense of Community
social cohesion & trust.
stimulate
Pedestrian traffic
& exploration in
neighborhood.



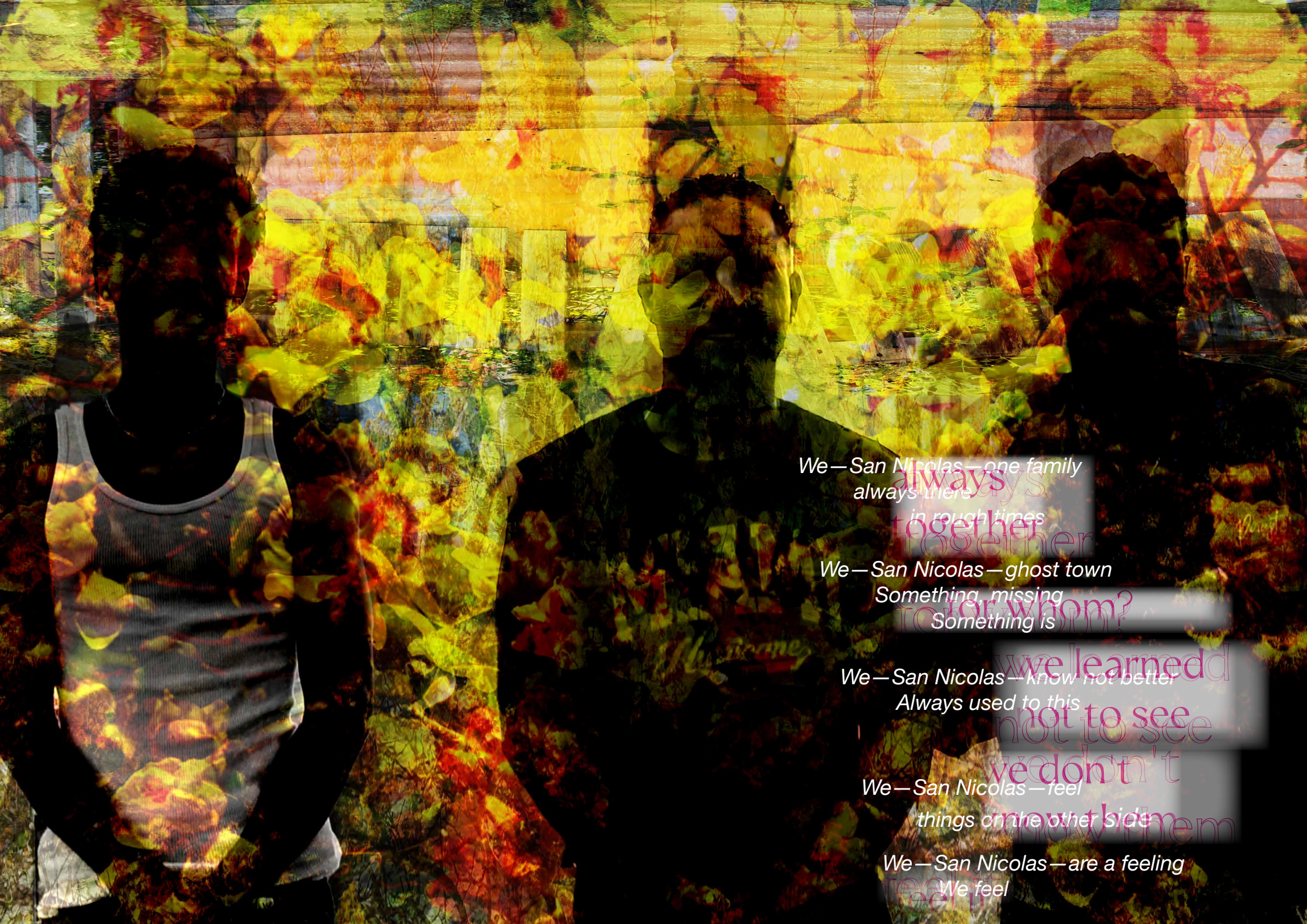


Nostalgia
memory of when "times were good"
Bustling SN! Glory days!
Thriving Refinery / City!
Melancholia
isolation loss
sense of estrangement
Uncanny
Trauma
Resonance with Personal Trauma
Social Structures
sense of community
social cohesion
identity crisis (cultural)
Collapse
Decay
TIME
Corrosion
Decomposition
STEEL
CONCRETE
TIMBER
sulphur
salt (hydrochloric acid)
oxidation
air: oxygen, sulphur
Moisture / RAIN
Sun: UV light
fixed identity (desired by capitalism)
"Lifespan"
Aging / Becoming of (Built) environment
Haunting
disjoints time
(past through present visible in material)
= affective
Impermanence
Environmental
Land exploitation
toxic contamination
disrespect flora / fauna / geo / human agents
air pollution fumes. refinery / cars
toxic dump on land: - tar pit Yuma Mesa / Sero Colorado
- Sulphur Hills open air.
- oil spills on land and sea.
- dump in sea.
destruction
culture - nature divide.
decay health & workers
resident Windward Houses.
poorer households & neighboring cities.
Symbolic Collapse.
failure of Economic system / industrial power.
failure of imaging alternative futures
Refinery
economic flow
human flow
sense of hopelessness
oppressive nature of industrialization
exploitation labor, spaces, environment.
abandonment city, residents emigrated / moved to other cities. or fund jobs in other cities.
Colonial History & influence
decay in relation of environmental design (indigenous)
economic disparity
political abandonment disinterest to maintain / support SN
disinvestment
"lack of" public space
public space = transport
private space = inhabit
public - private divide.
potential PS (encounters / gathering)
potential for micro political change.
reconnect w nature
ABUNDANCE OF LAND / SPACE MATERIALS
= Adaptive Reuse.
Refinery is strong cultural symbol for SN people.
potential of producing interaction / trust / connection
= Sense of Community!
Culture production
Transindividuation
sense of disomfort
psychological Decay affective
disindividuation forces.
problem - whole
unfinished - finished
Social Structures
Ownership
Interaction
Ownership
Interaction
Social sensitivity
Anomalies / Damaged / Trauma
Problem in Built environment
Resistance
Sustainability
Capitalism
Cultural economic amnesia
collective Memory
"they let us down!"
"empty promises"
Sense of fingertip
Restraint
ex-eluded.
Material force experience
Collapse
Decay
Corrosion
Decomposition
dilapidated living conditions
natural forces
rotting dead experience
scratch, cracks, fade
usage of materials
form / structure change
weakening
trust
safety
usage
eventual collapse
structures
when neglected




For Whom?

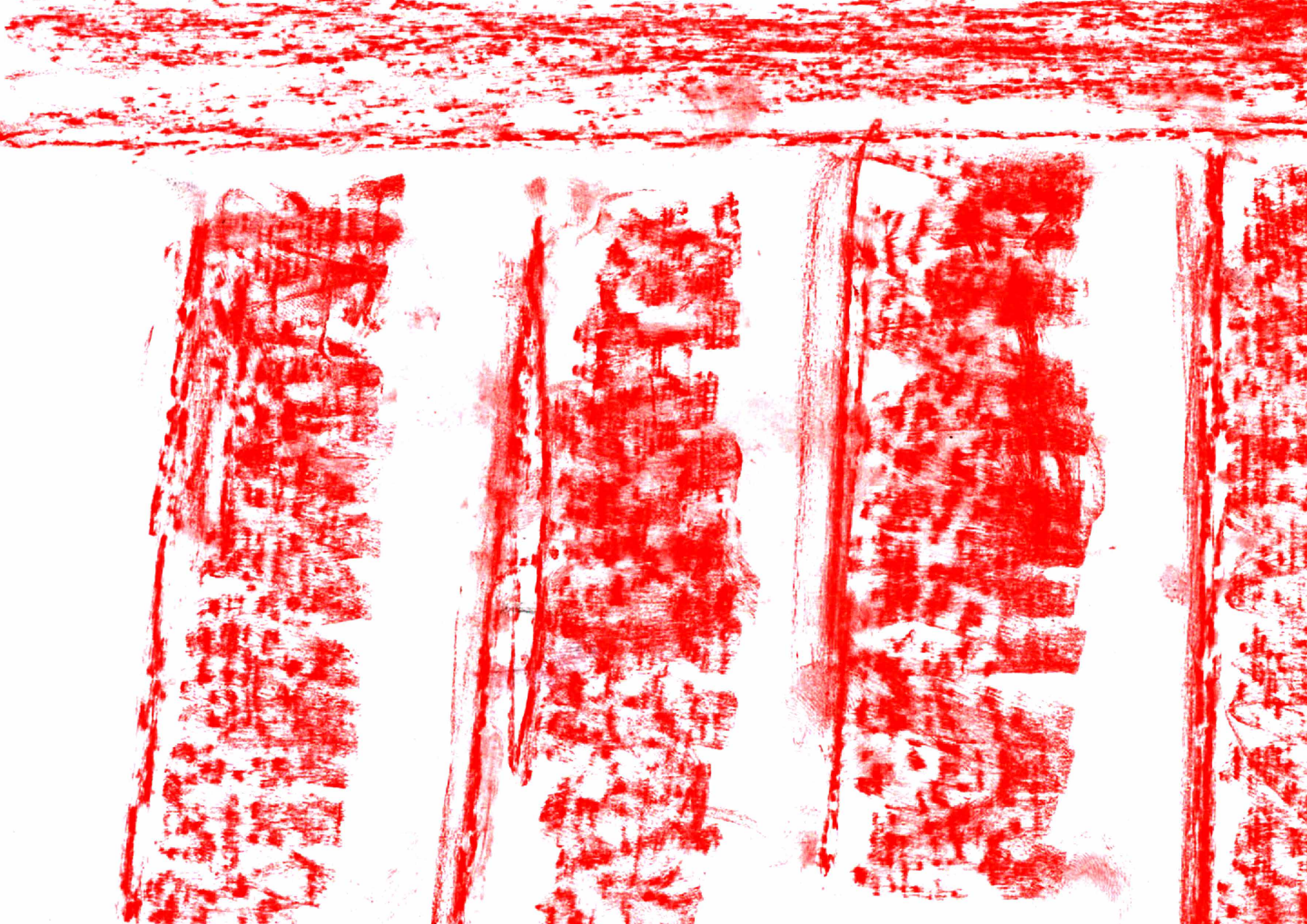

We — San Nicolas
before we
We felt it
understood it
When it shut
down
not
Something
shifted
visible
Depression
settled
never
It lingered
in the ground
left
the wall
us


We—San Nicolas—one family
always there
in rough times
We—San Nicolas—ghost town
Something, missing
Something is
We—San Nicolas—know not better
Always used to this
We—San Nicolas—feel
things on the other side
We—San Nicolas—are a feeling
We feel
always
together
for whom?
we learned
not to see
we don't
know them


something
nothing's changed!
should have
hey don't
empty promises!
are!
We will have
we wait
and wait
We—San Nicolas
We expected
change
We—San Nicolas
We go backwards
Slowly
when?
something
changed
We could have
changed
otherwise

Ambition


Global Colonial Hauntings
Caribbean Colonial Hauntings
Aruban Colonial Hauntings
Fuqu di San Nicolas
Architectural Research & Design

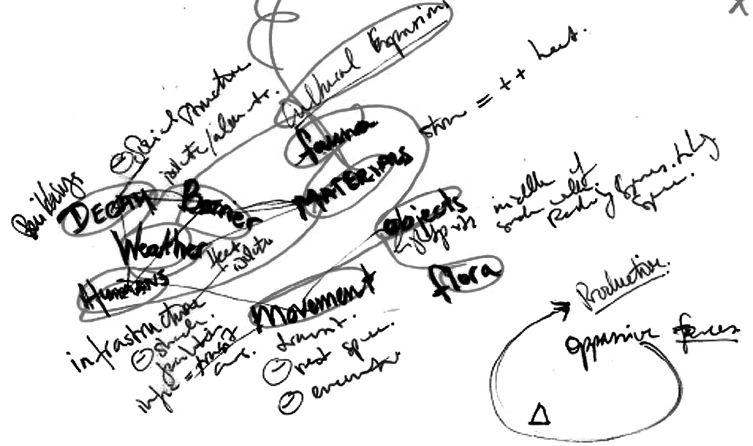


Residents Beach Private - Public Divide.
appropriation interior furnitures
Domino table
> Gulf.

Analyze spatial elements bus. + wet/hot/temp.
how they condition [illegible].

complicate further.
1. combination (current).
→ forces.
→ Ruptures
→ potentials.

Residents:
Desire for Encounter Support
& Socialization / Connection
→ Appropriation of space
along edges Build
shade Shade
Tree + chairs
Tree + chairs + camp.
+ street + fence.



Resistance Rupture.

→ appropriation space. (shade + act)
→ appropriation / personalization (fences etc) patchwork
→ "Abandoned Building" = home for non-humans. oddish / Homeless flora, fauna.
→ Food + Clothing Social Network Support.
→ Carnival Political Protest through Music.
→ Sex workers: live on threshold + appropriate streets.

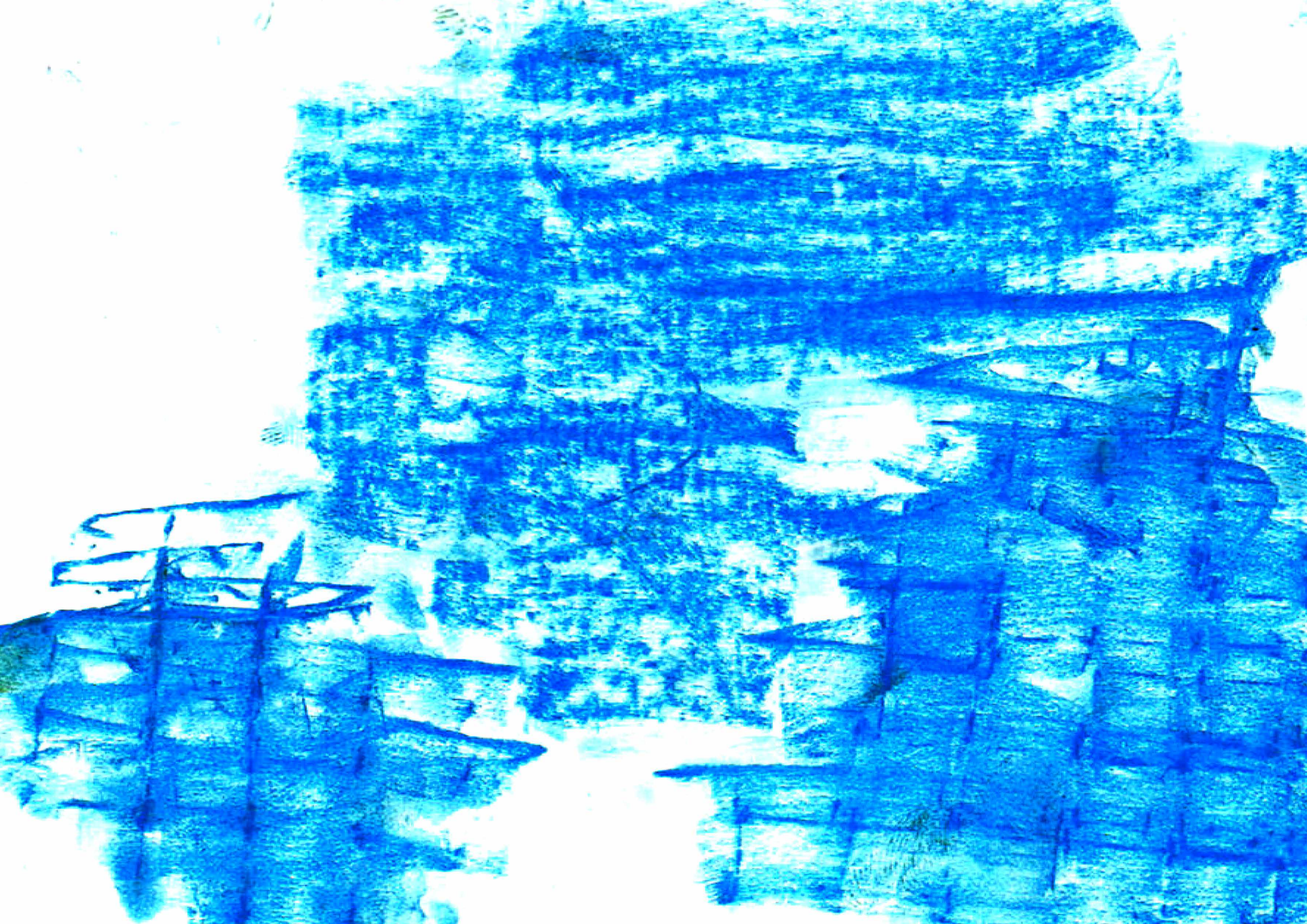
Tension Rupture

→ Tourism
→ Art Murals.
→ Food.
} Gentrification.

⊕ Potentials.

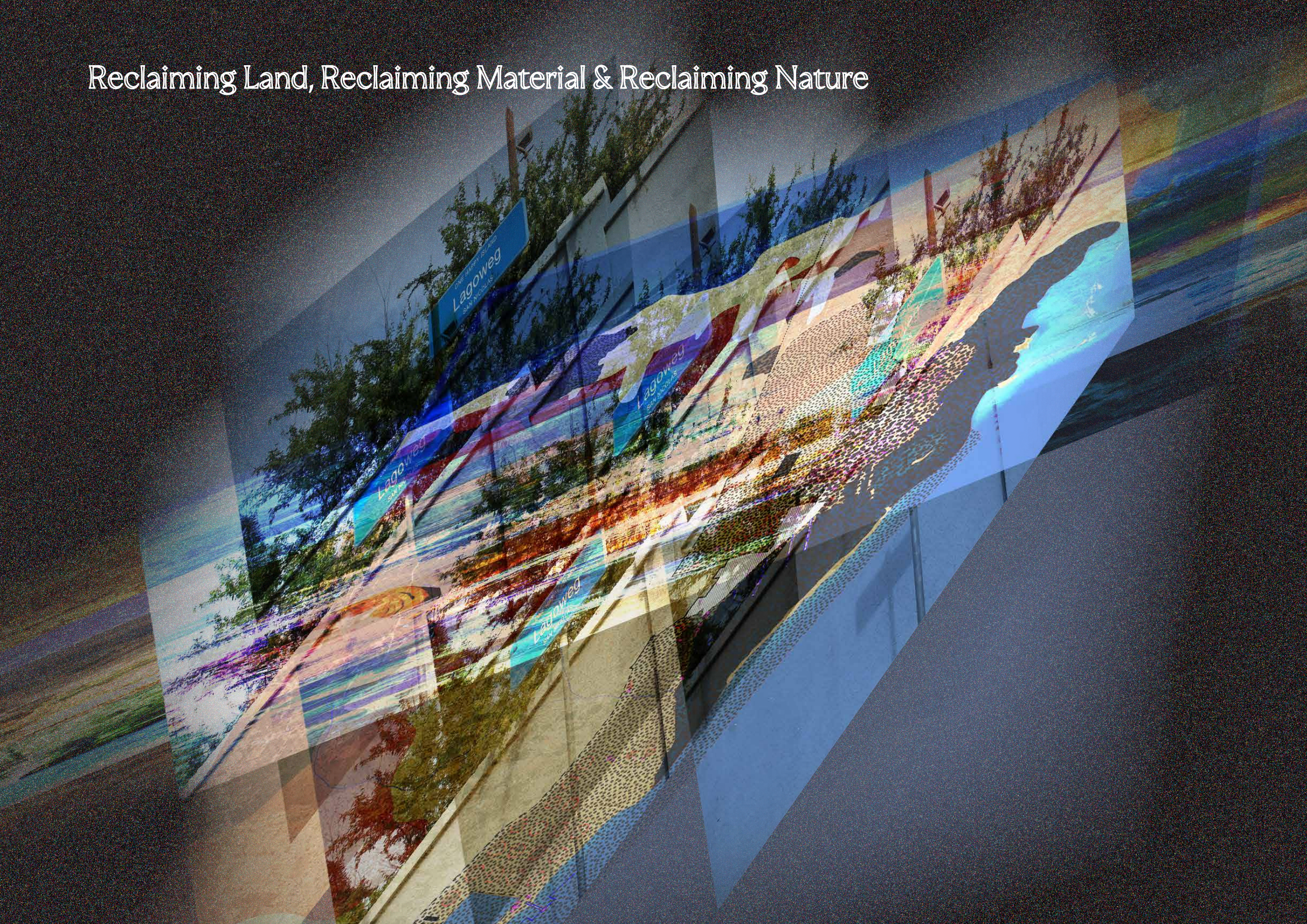
(+) A Cultural Economy:
- Desire freedom & Connection
- Potential place of encounter & gathering.
- Desire for shade + pass time
- Potential intergenerative interaction cross-cultural.
- Potential skills learning / Teaching = Mechanics (Refinery)
- Potential Reconnection w/ Nature.
- potential to acquire responsibility & become active (instead waiting for Gov)

⊖ Potentials Future plans discover.
- Reopening Refinery
- Dismantling Refinery
- Intro Cruiseship Terminal
- Boutique Hotels & Condos (Luxury)
- Art & Culture Centre
- Art & Farmer's Market



Concept

Reclaiming Land, Reclaiming Material & Reclaiming Nature





Fucu of Regeneration

The limit that could have endured life


Fucu of Permeability
Fucu of Permeability
The limit that could have become a threshold


Fucu of Impermanence
Fucu of Impermanence
The limit that could have decayed with grace


Fucu of Creolization
The limit that could have become otherwise


Fucu of Collectivity
Fucu of Collectivity
The limit that could have been shared

Scope



±45ha site (±27ha land)
±1,2km refinery wall
±9km waterfront

Qualities: Uncanny-Toxicity-Decay-Openness-Serenity-Porosity-Colors



11.

12.



13.



14.



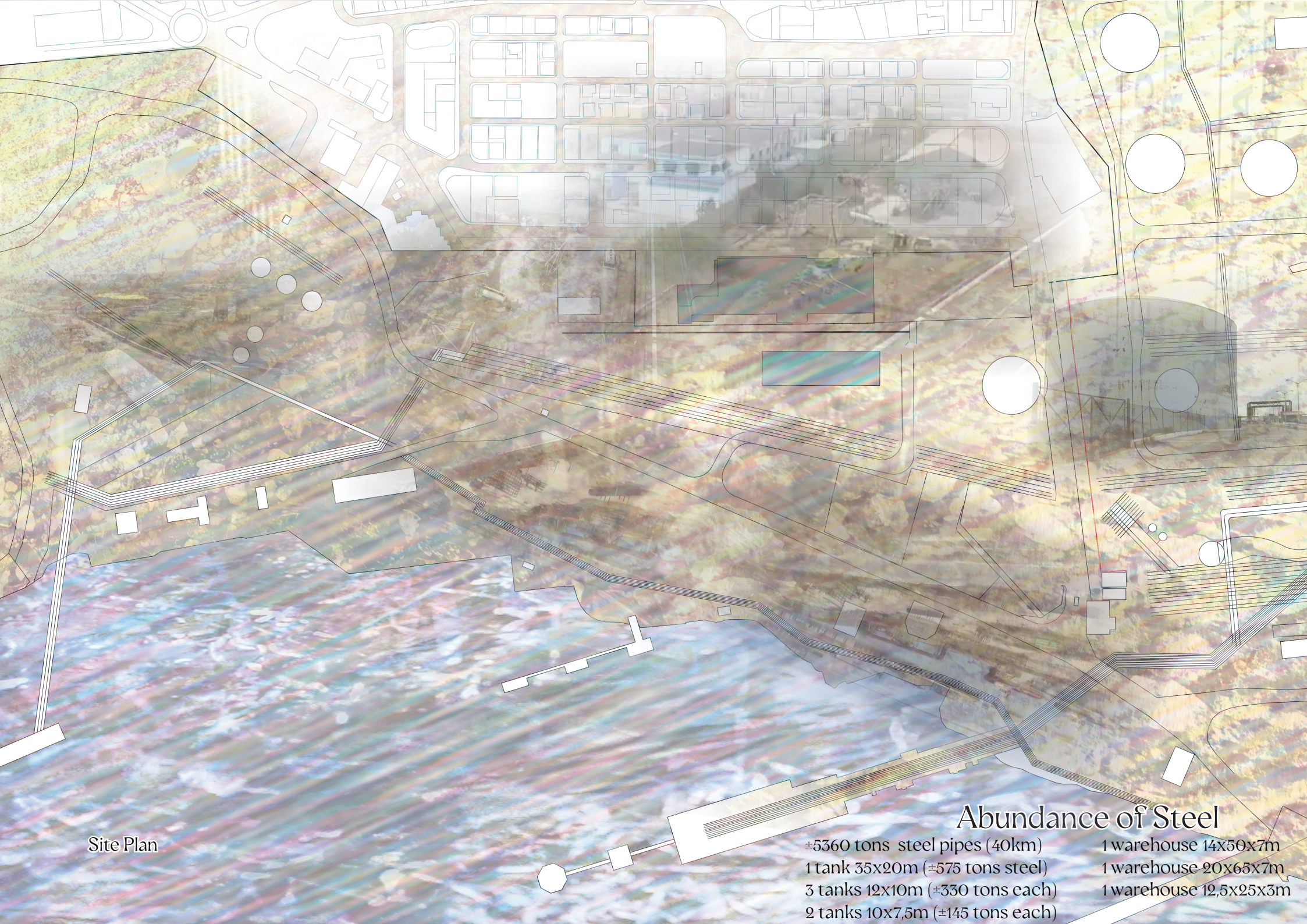
14.


Community Center
Communal Kitchen
Workshop Spaces
Exhbition spaces
Community (Wild) Garden
Tree Nursery
Program
Program


Design Social Processes
Design Social Processes
Collective removal, modification & addition

1 Cleansing

Cleansing



Site Plan

Abundance of Steel

±5360 tons steel pipes (40km)
1 tank 35x20m (±575 tons steel)
3 tanks 12x10m (±330 tons each)
2 tanks 10x7,5m (±145 tons each)
1 warehouse 14x50x7m
1 warehouse 20x65x7m
1 warehouse 12,5x25x3m

2 Groundwork

Site Regeneration - Phytoremediation



Phytovolatilization
Plant extracts contaminant and transpires it through the leaves and stems into the atmosphere as gas.

Phytodegradation
Plant destroys contaminant through photosynthesis or internal enzymes/microorganisms co-habiting with the plant, and absorbs degration in its roots, stems and leaves

Phytometabolism
Plant absorbs contaminants as nutrients for growth, incorporated into plant's biomass

Phytoextraction
Plant extracts and stores contaminants into above-ground tissues, ready for harvest to remove contaminant off site

Rhizodegradation
Soil microbes destroy contaminant, as sugars and exudates produced in plants are released by roots, creating a favorable environment for degradation in soil

Phytostabilization
Exudates facilitate thick roots to stabilize and bind contaminants into soil, preventing mobilization

Phytohydraulics
Plant changes groundwater hydrology, take up water and contaminants, potentially stopping migrating plumes

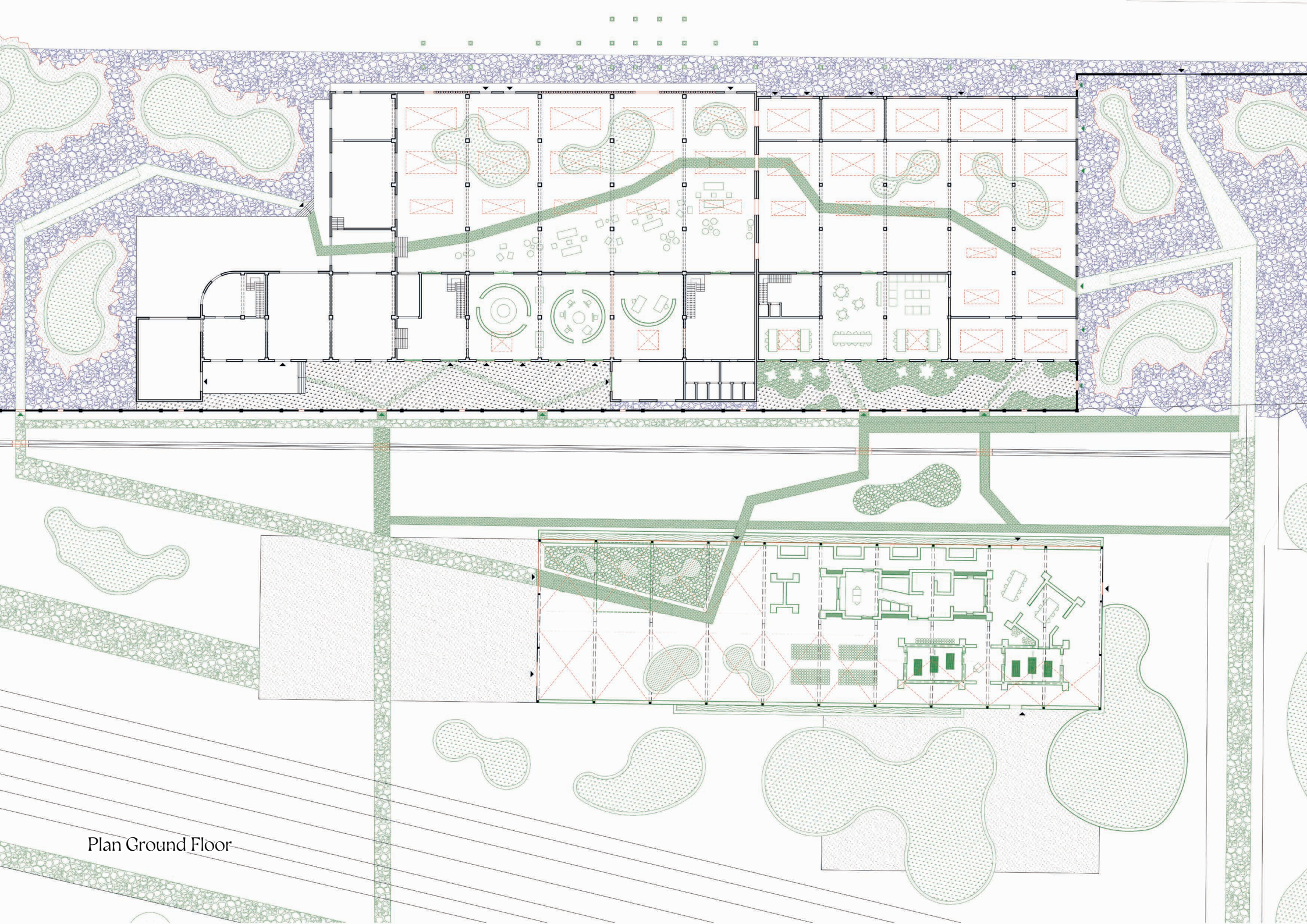
Hydrocarbons: 5-10 years
Heavy Metals: 10-20 years
PAHs: 3-10 years

Depending on:
-Depth and type of contamination
-Soil quality
-Plant species' remediation capacity

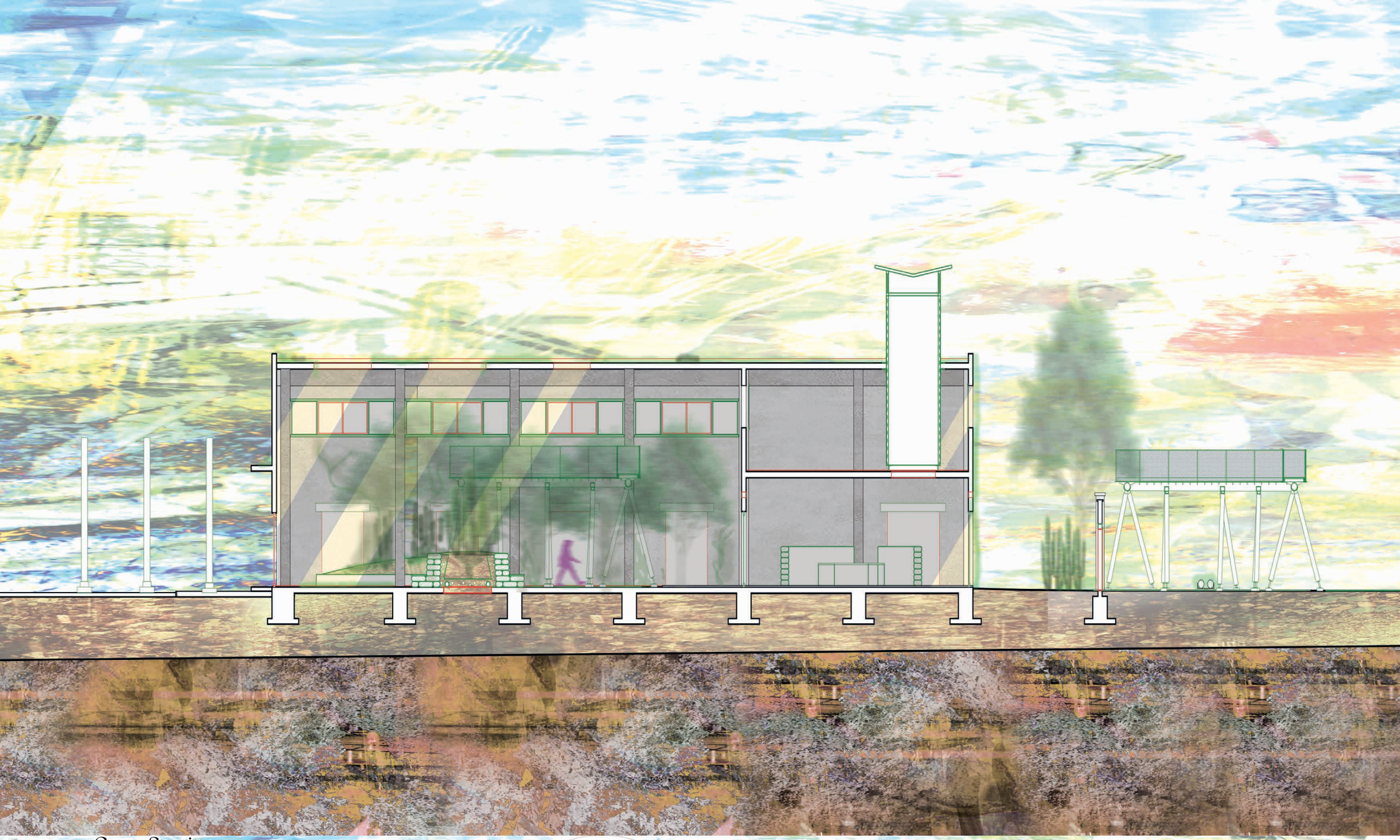
Site Plan



Site Plan



Plan Ground Floor



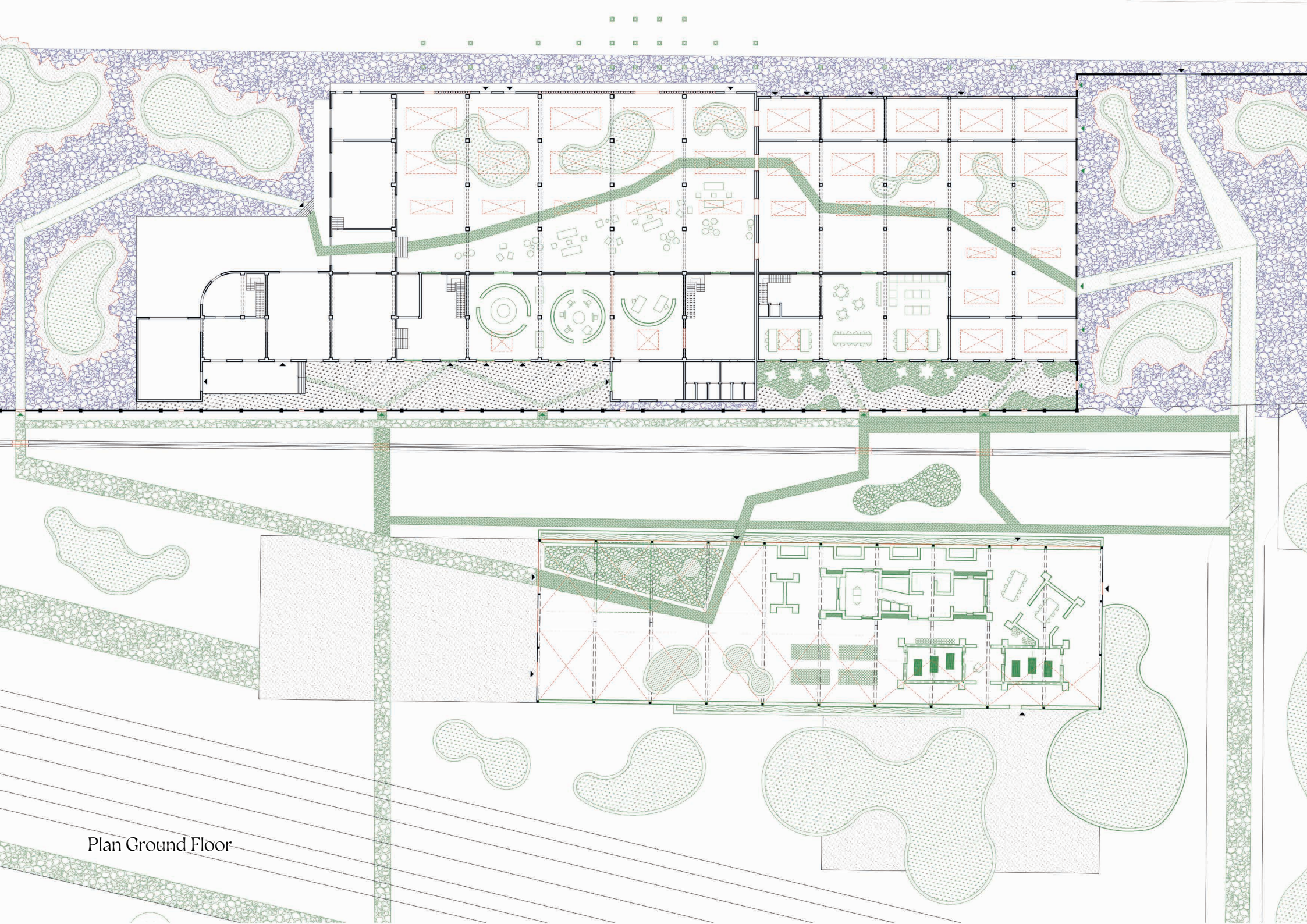
Cross Section


Fragment Berms

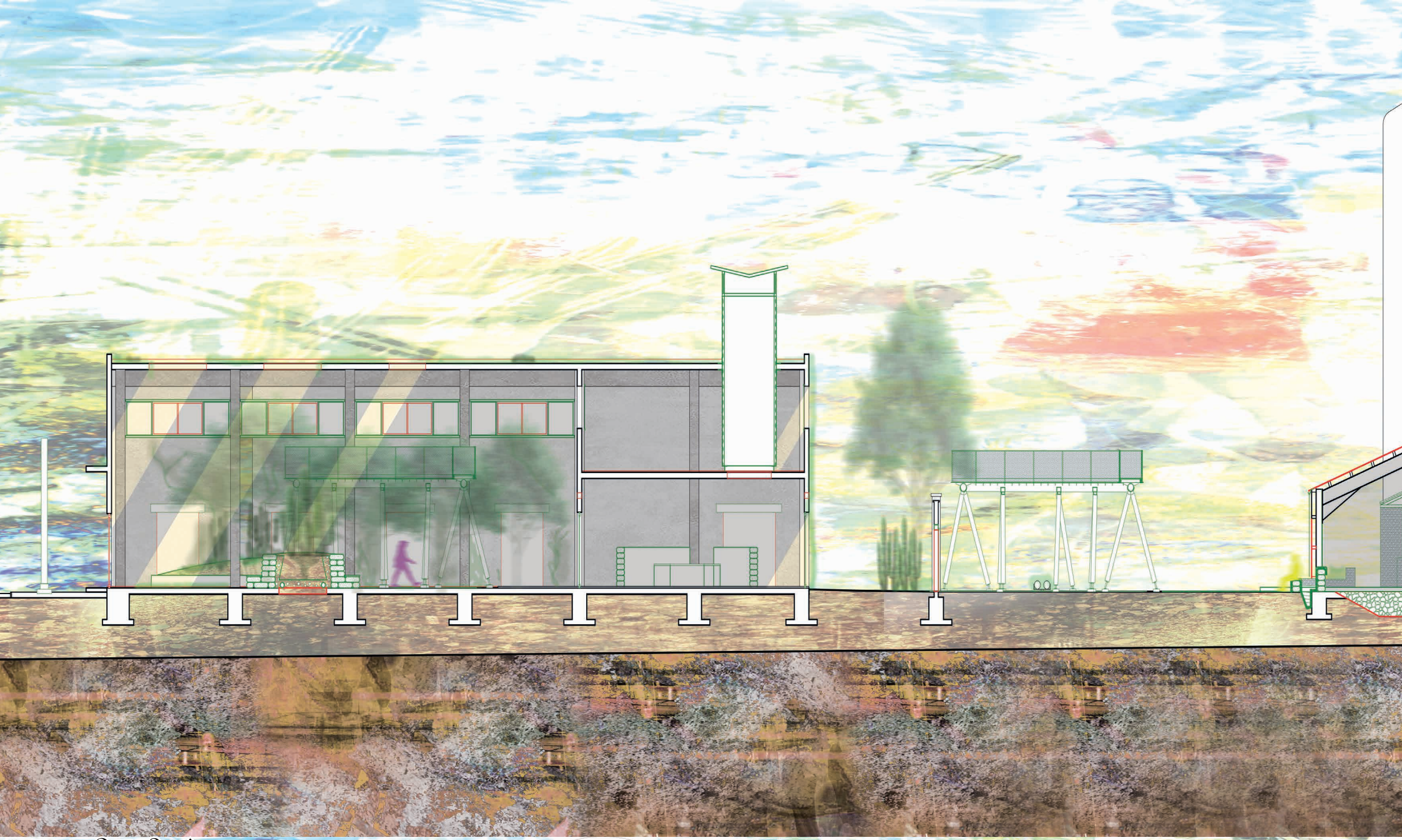
3 Wall Transformation



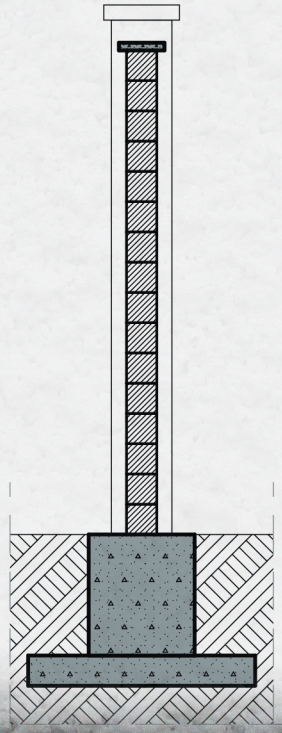
Site Plan

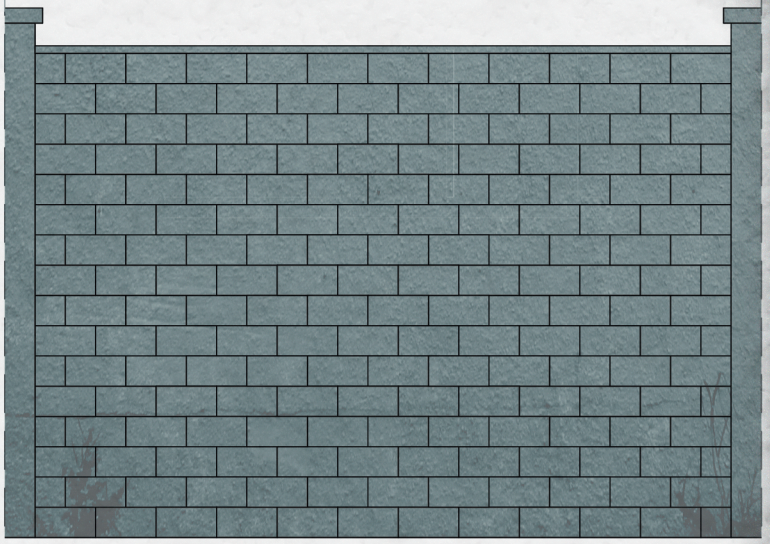


Plan Ground Floor

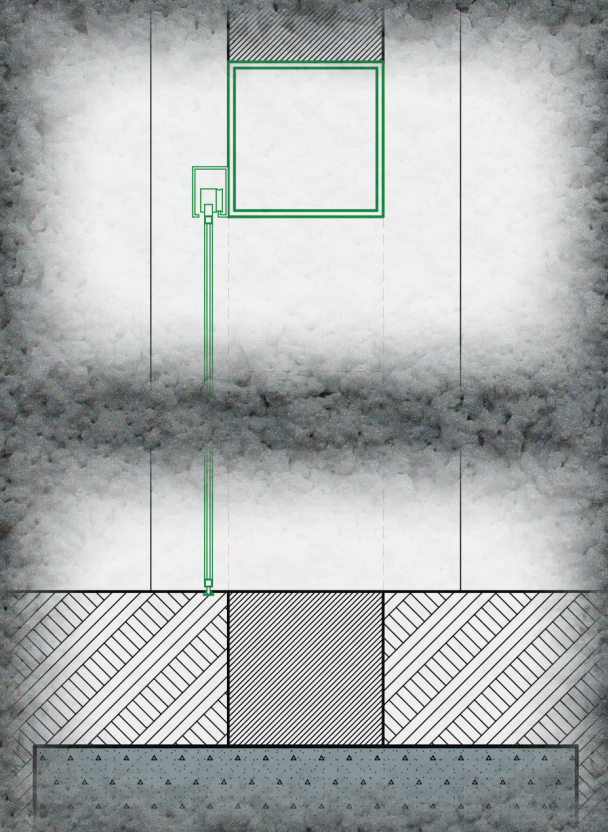


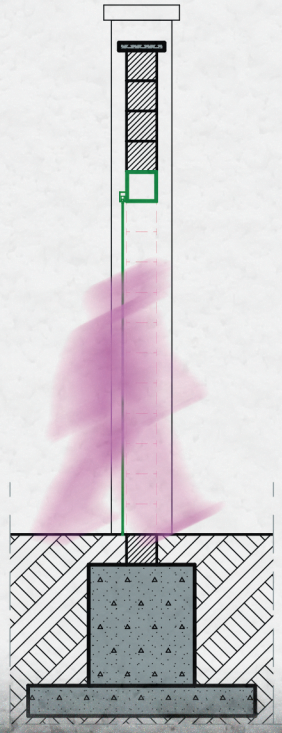
Cross Section

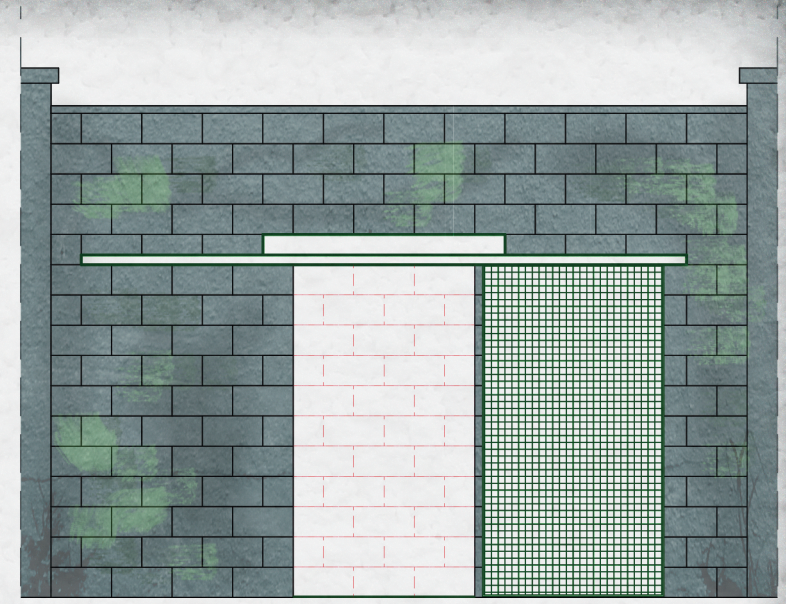




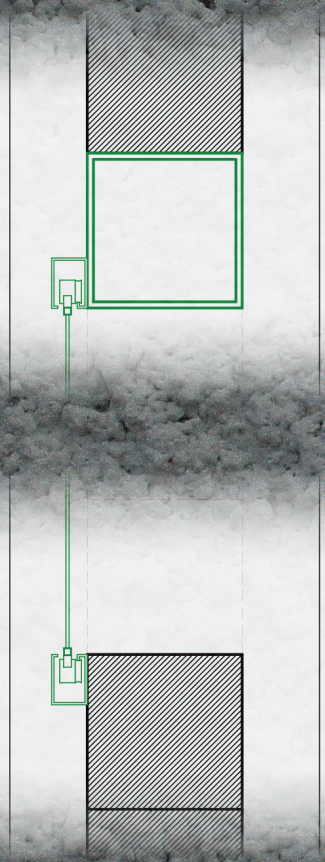
Fragment Wall – Existing

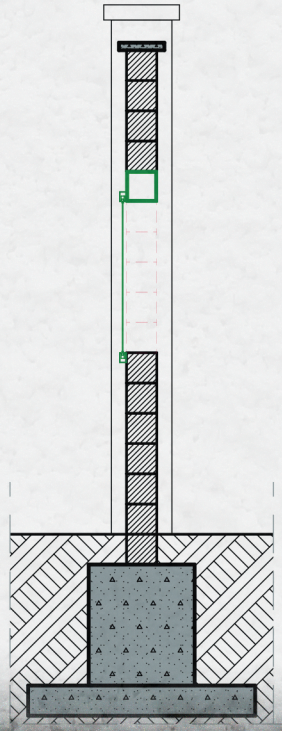


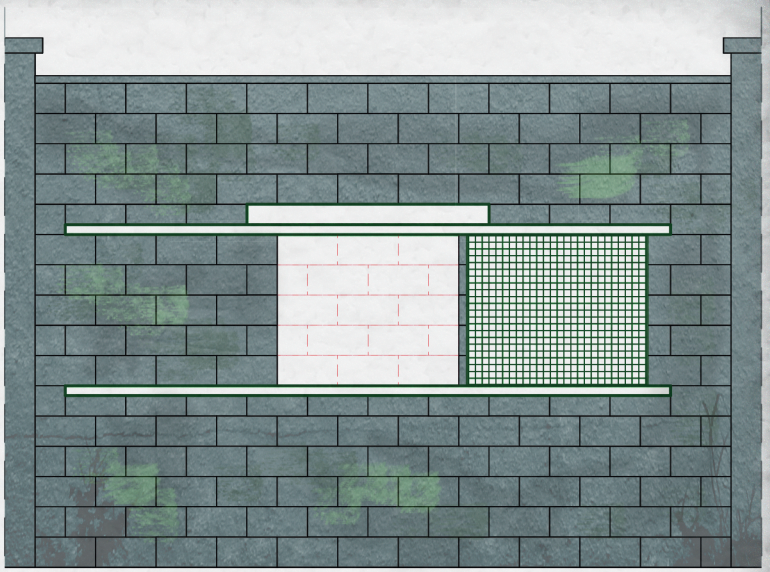




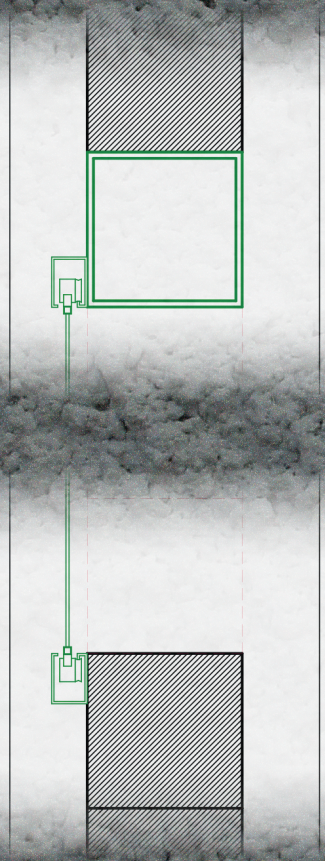
Fragment Wall – Doorway

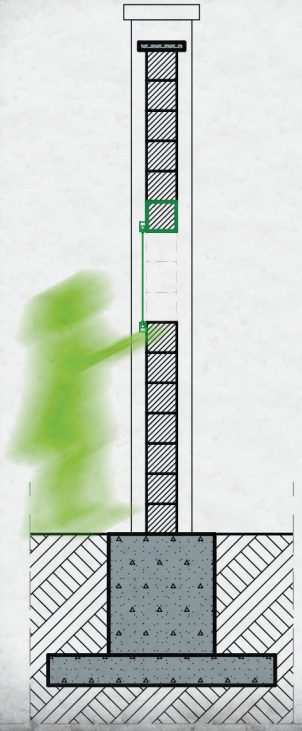


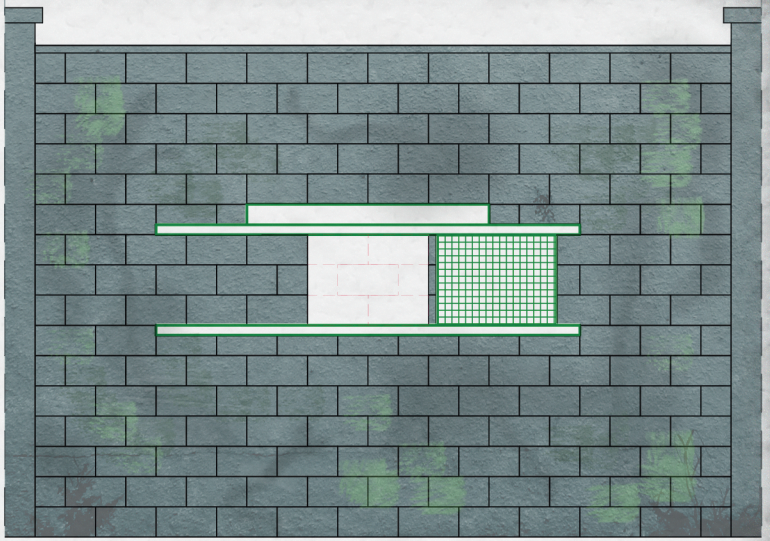




Fragment Wall – Window





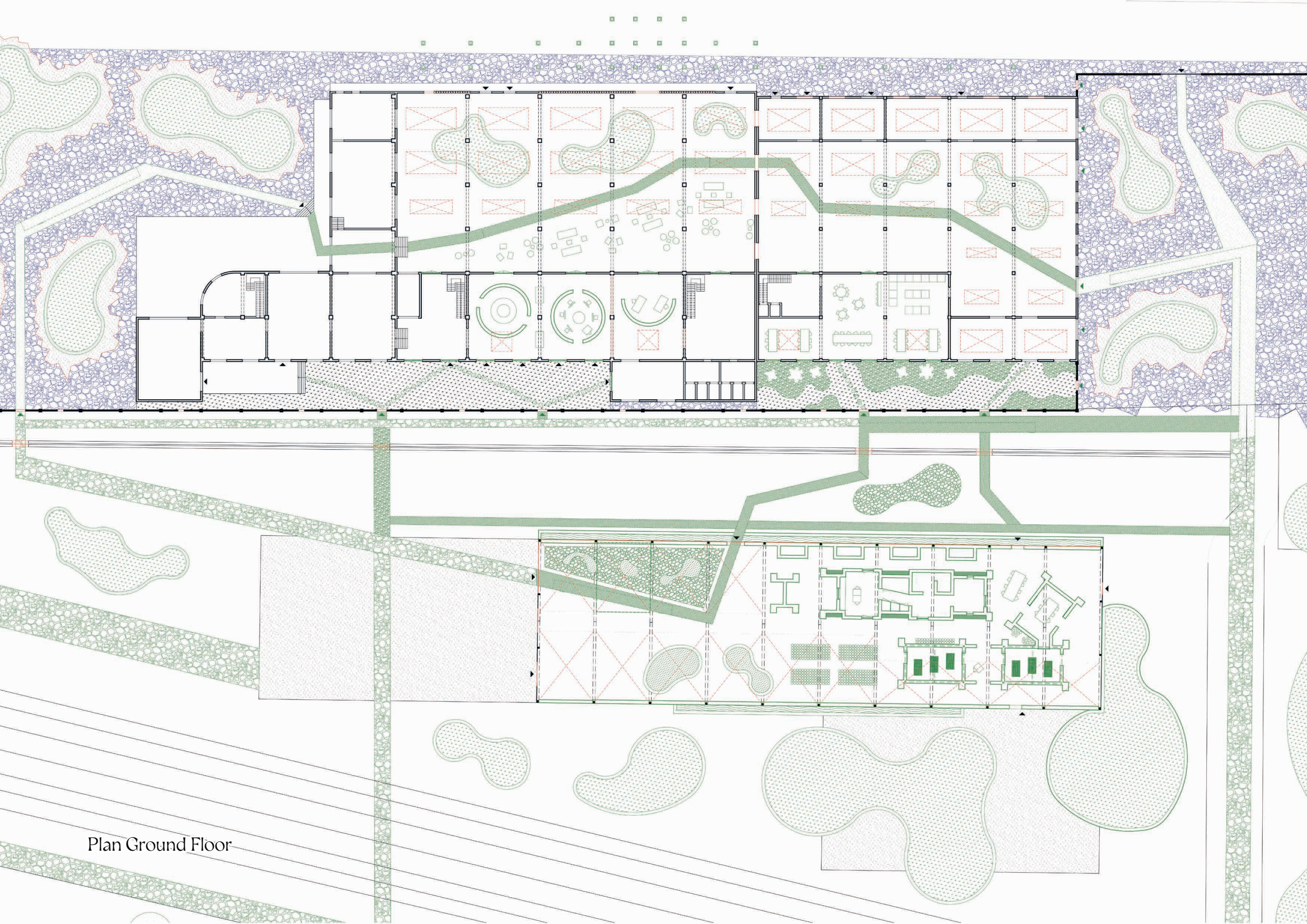


Fragment Wall – Window

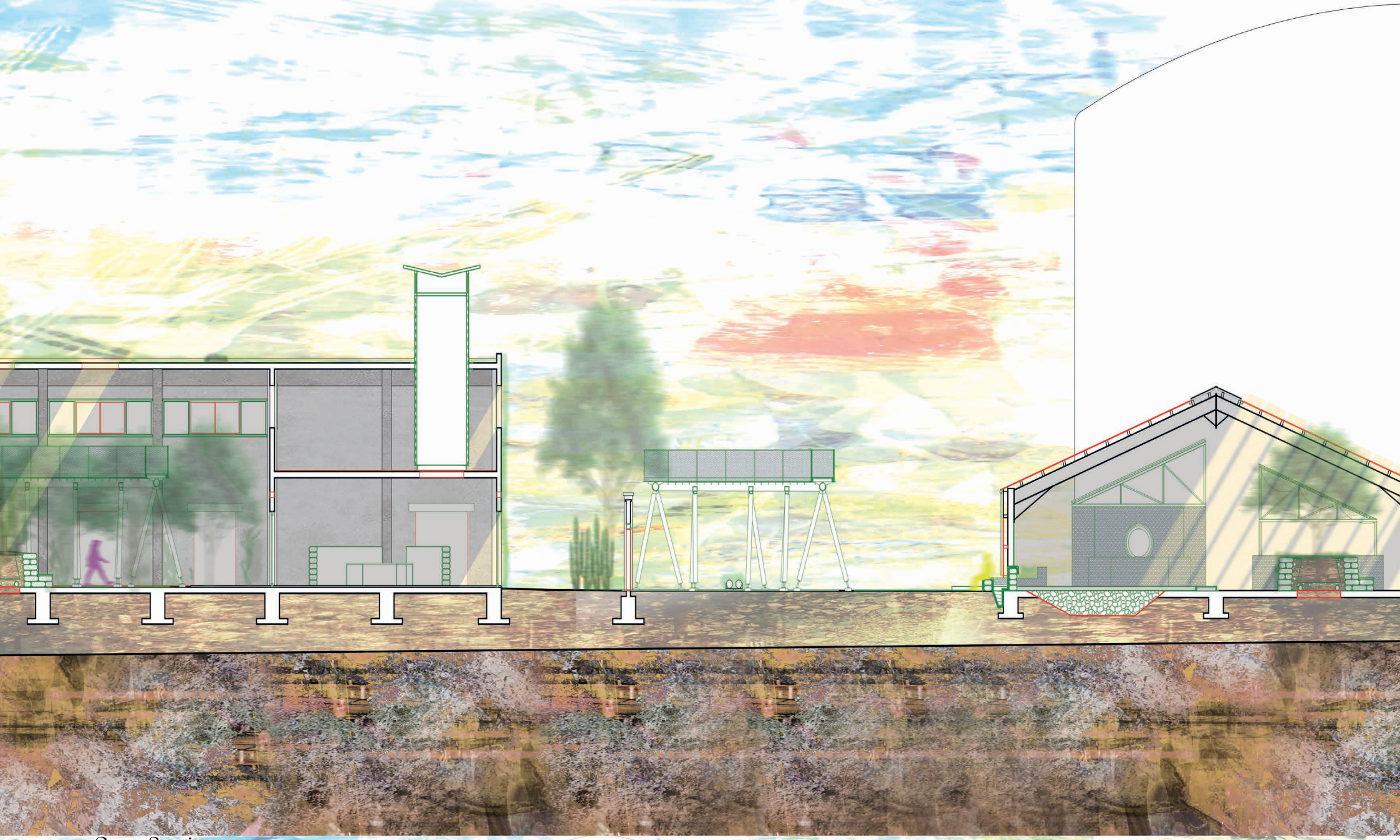
4 Connections



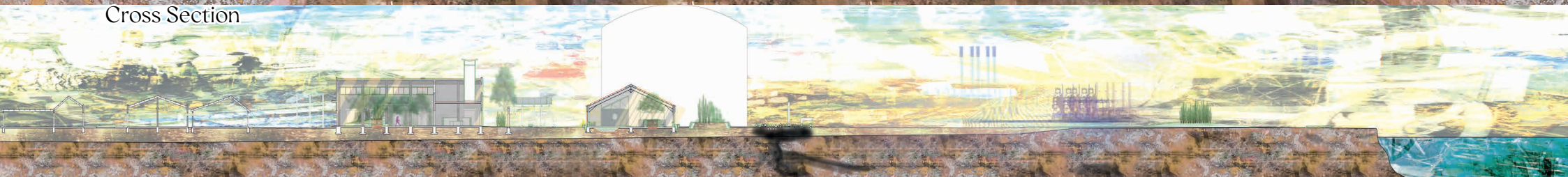
Site Plan



Plan Ground Floor



Cross Section





Fragment Path & Footbridge

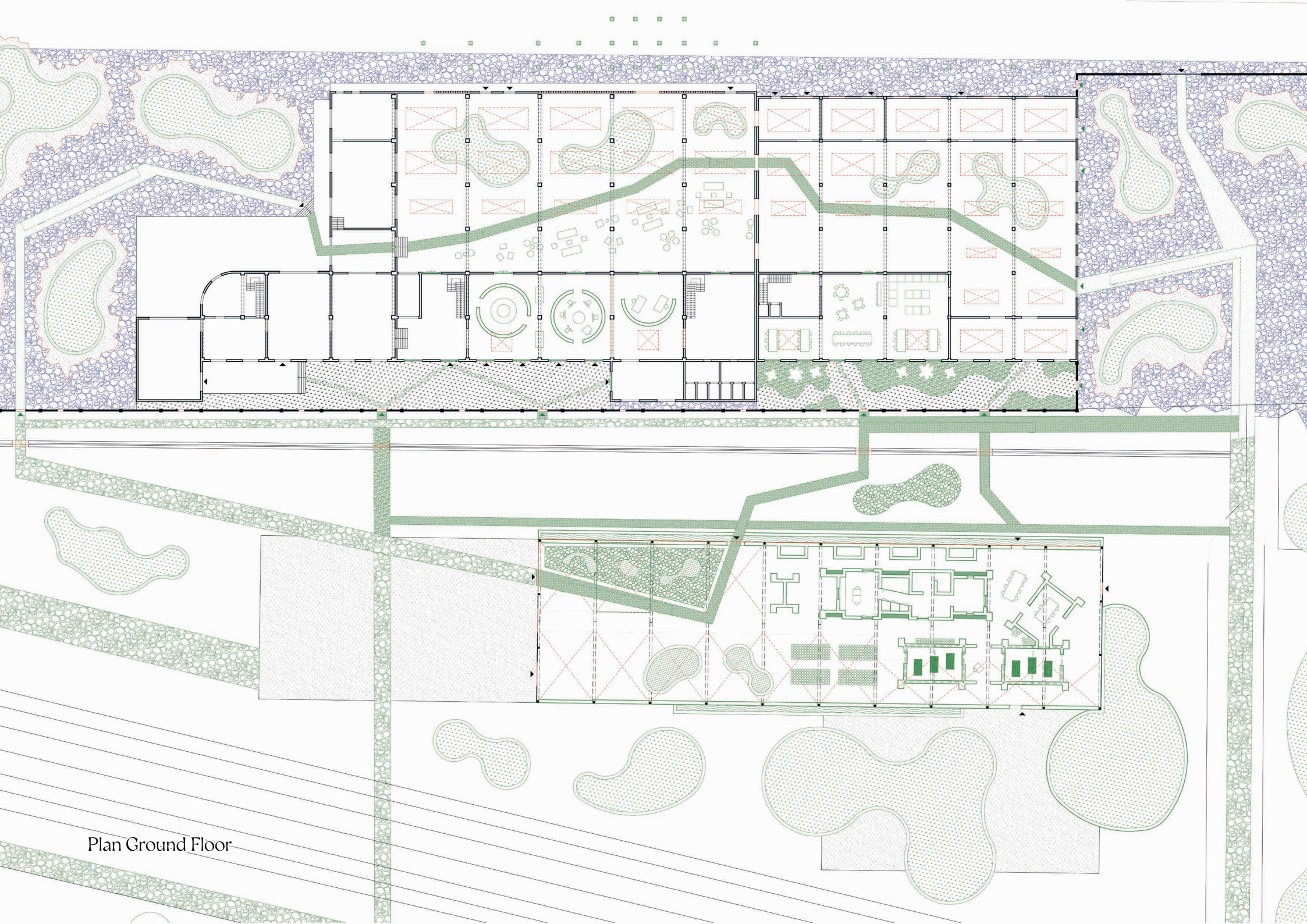
5 Repurpose



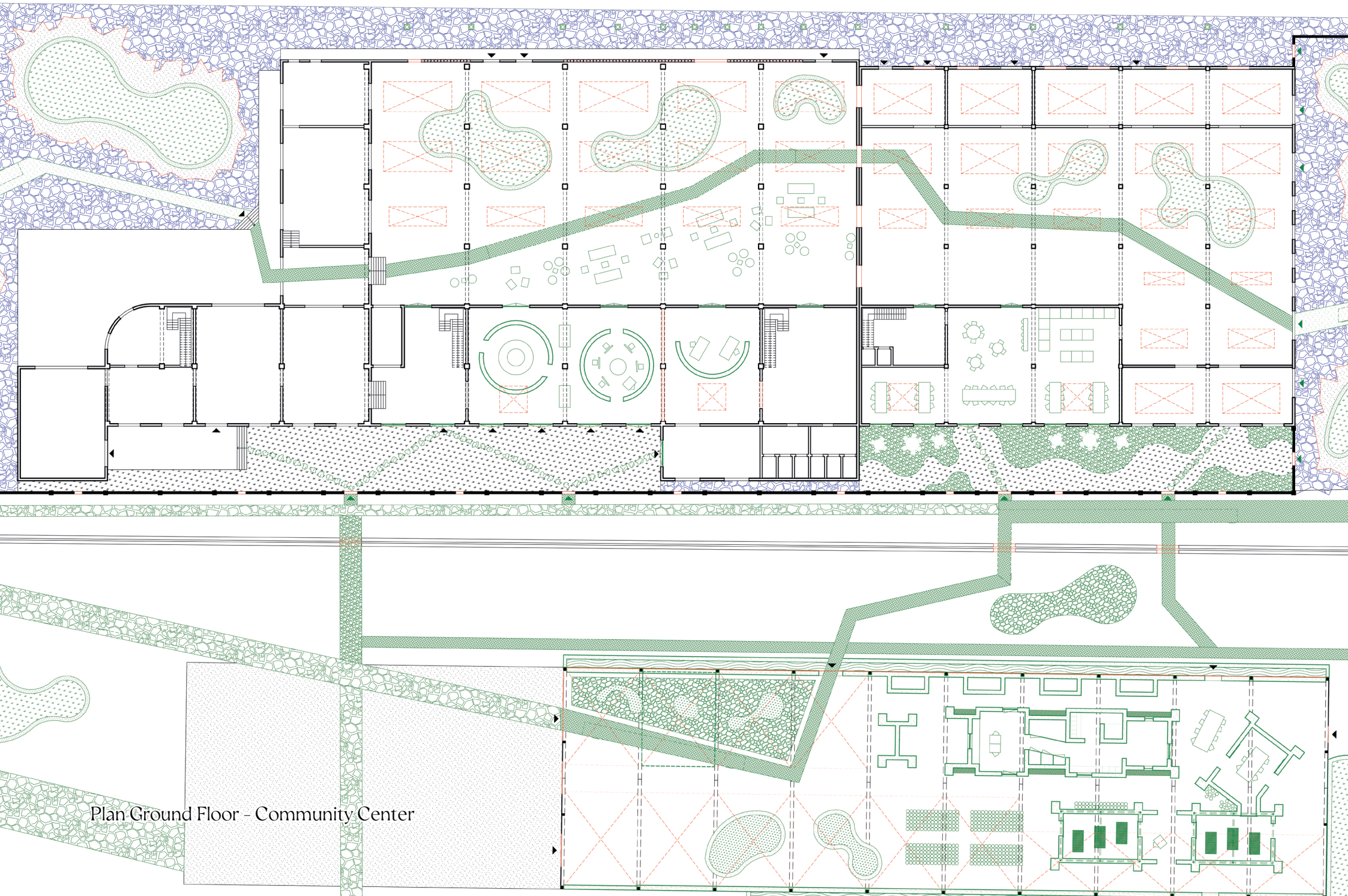
Site Plan



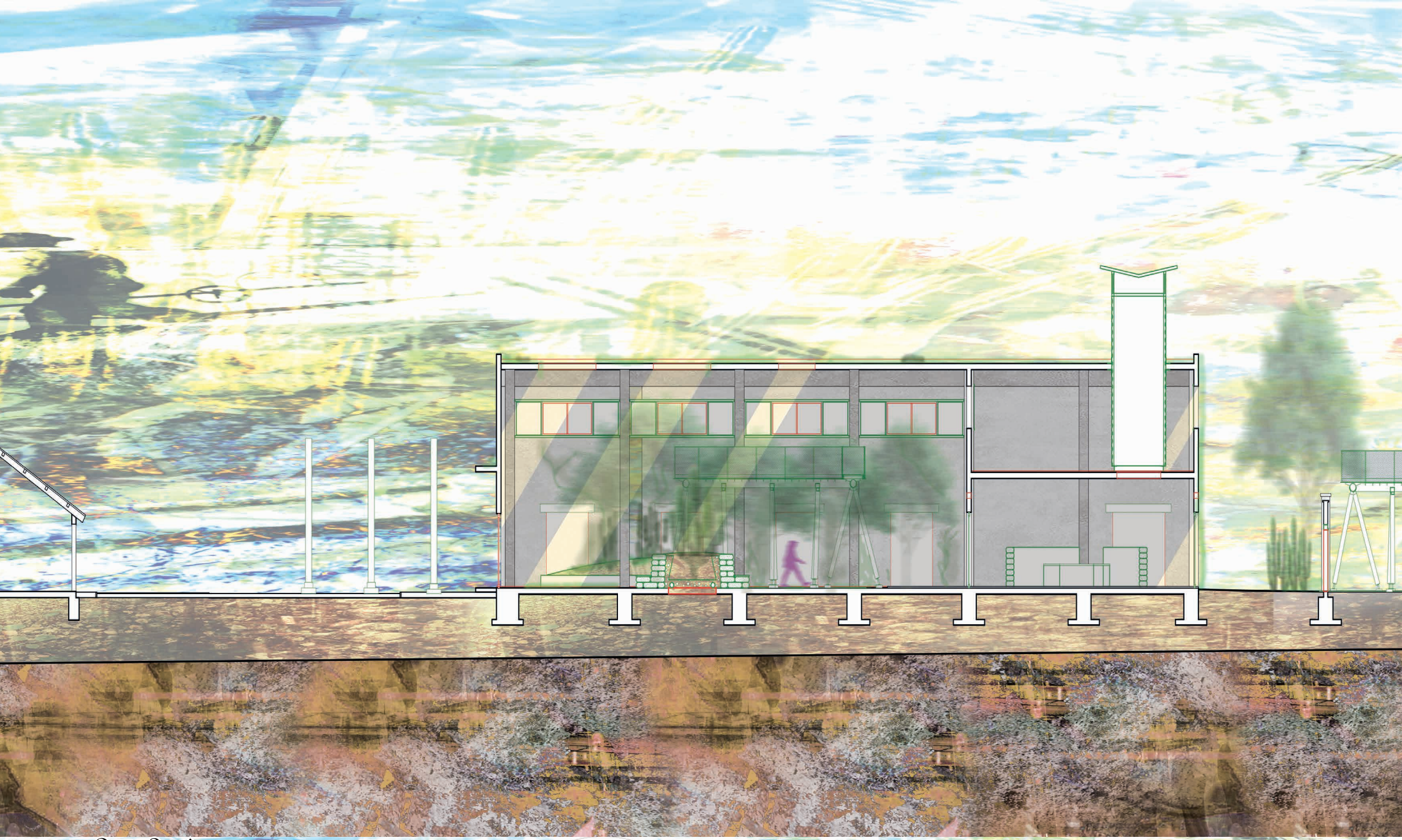
Elevation – Façades City Side



Plan Ground Floor



Plan Ground Floor - Community Center



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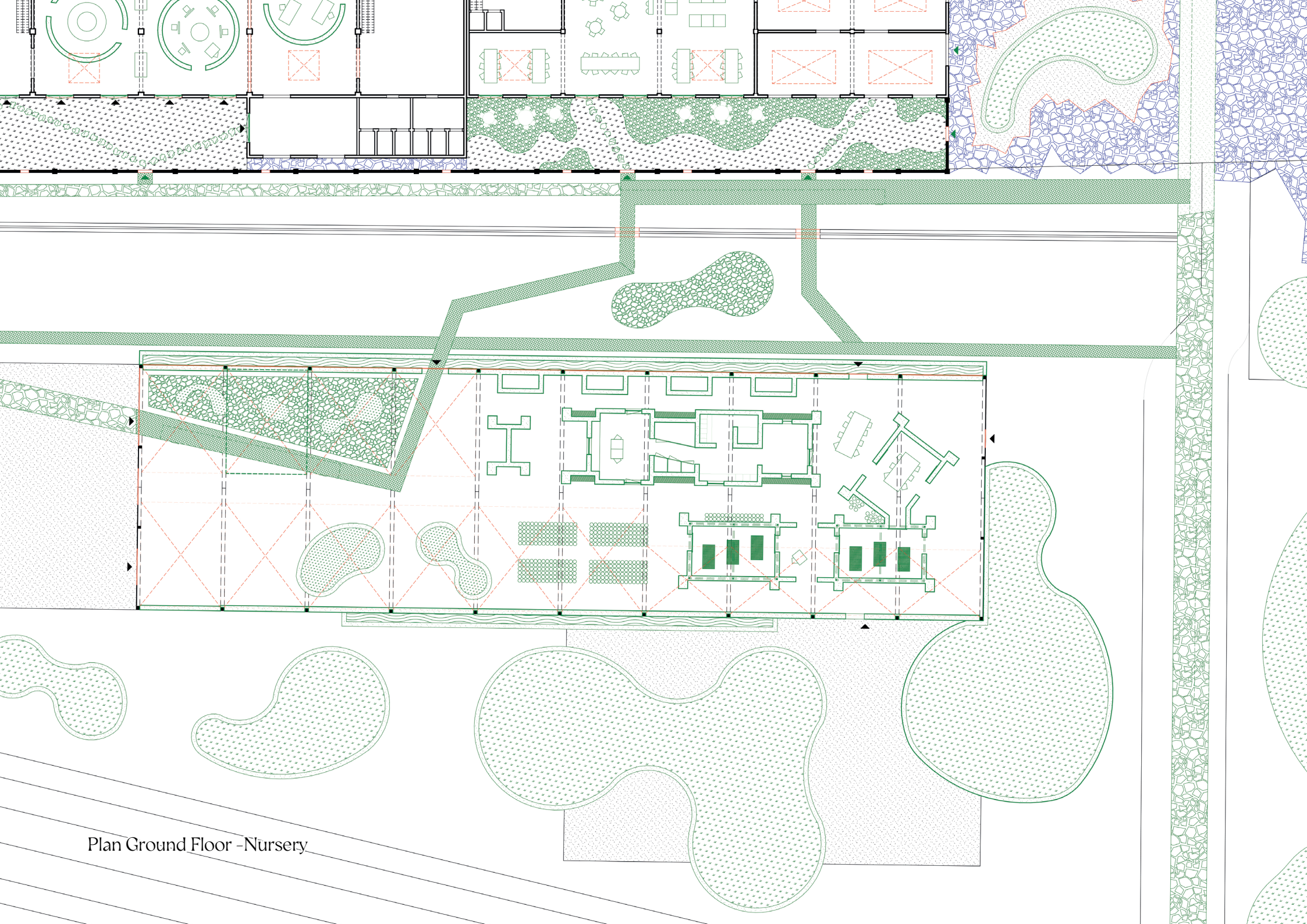
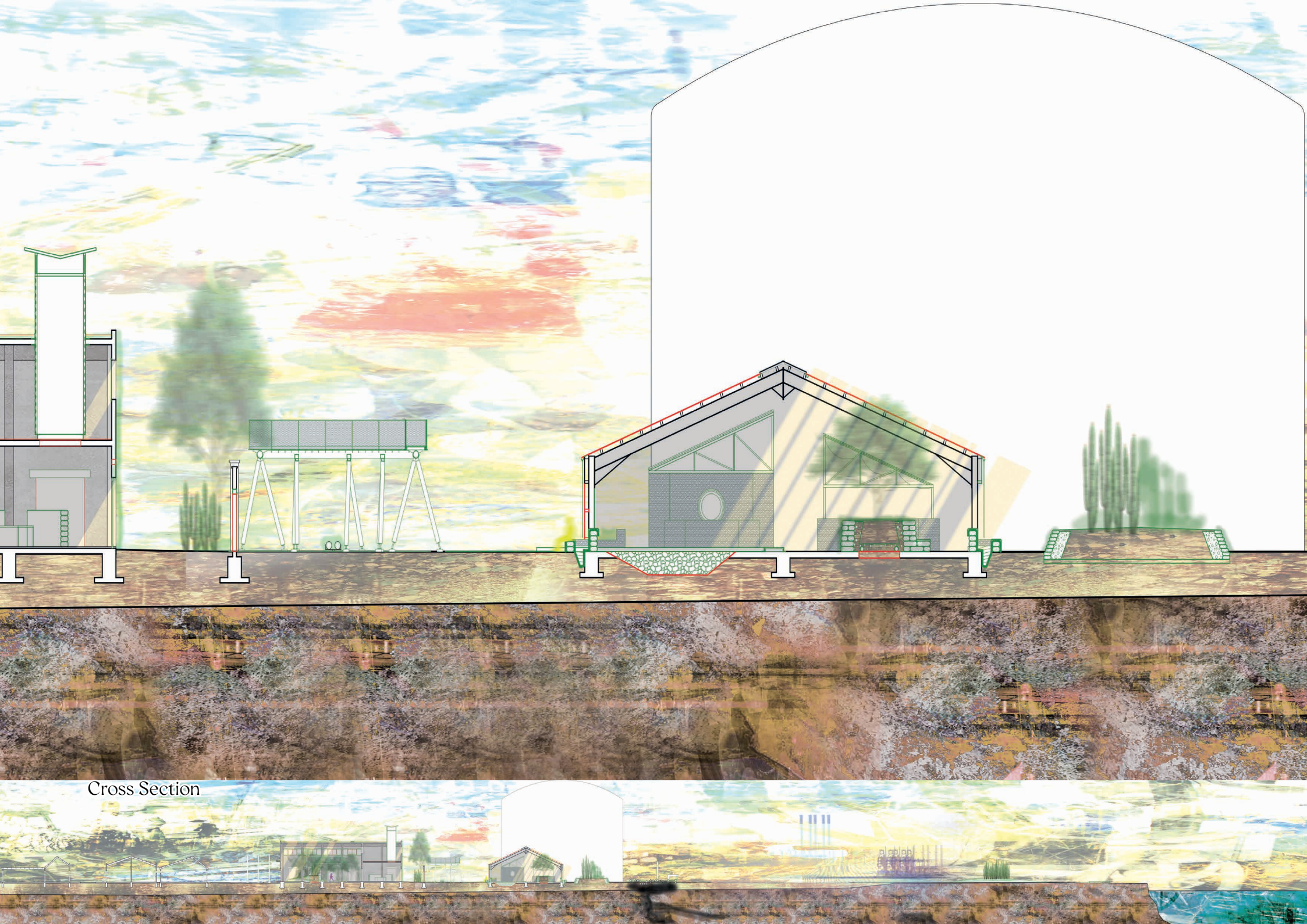


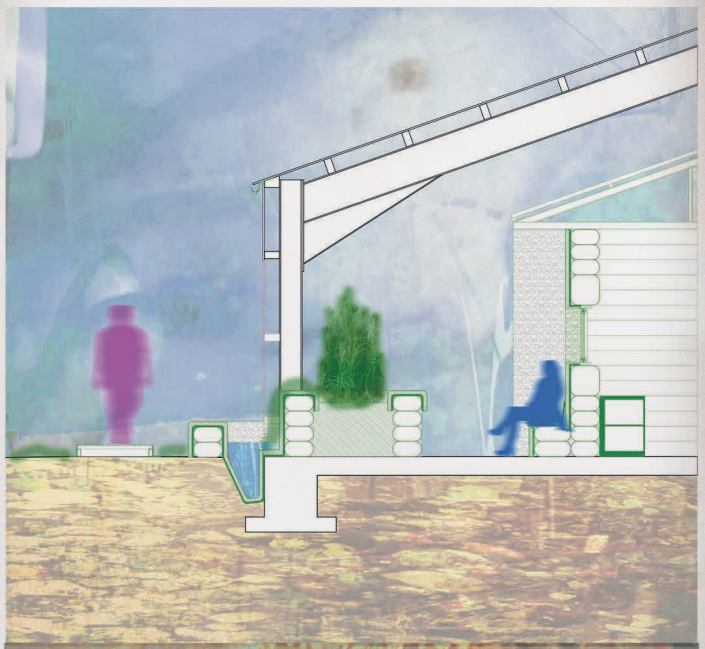
Plan Ground Floor -Nursery



Cross Section



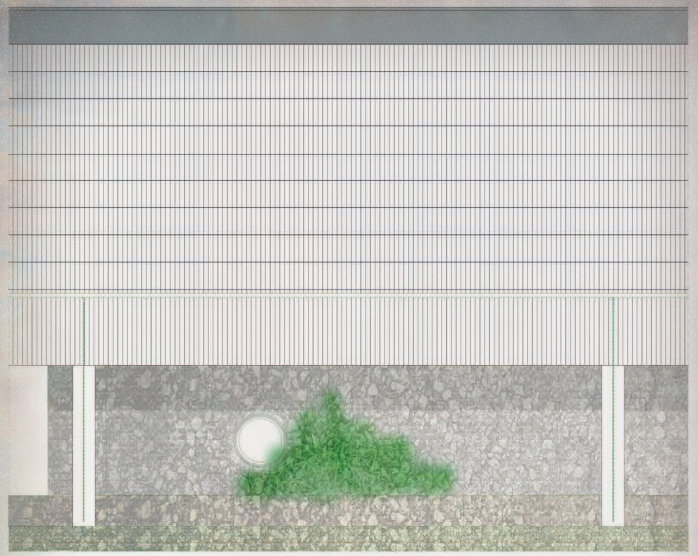
Cross Section - Nursery



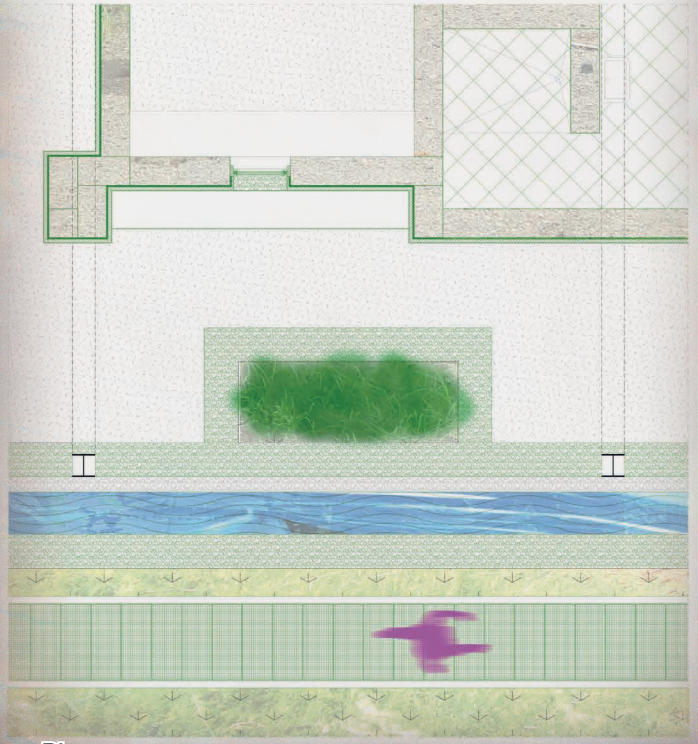


Facade Fragment – Nursery Northside

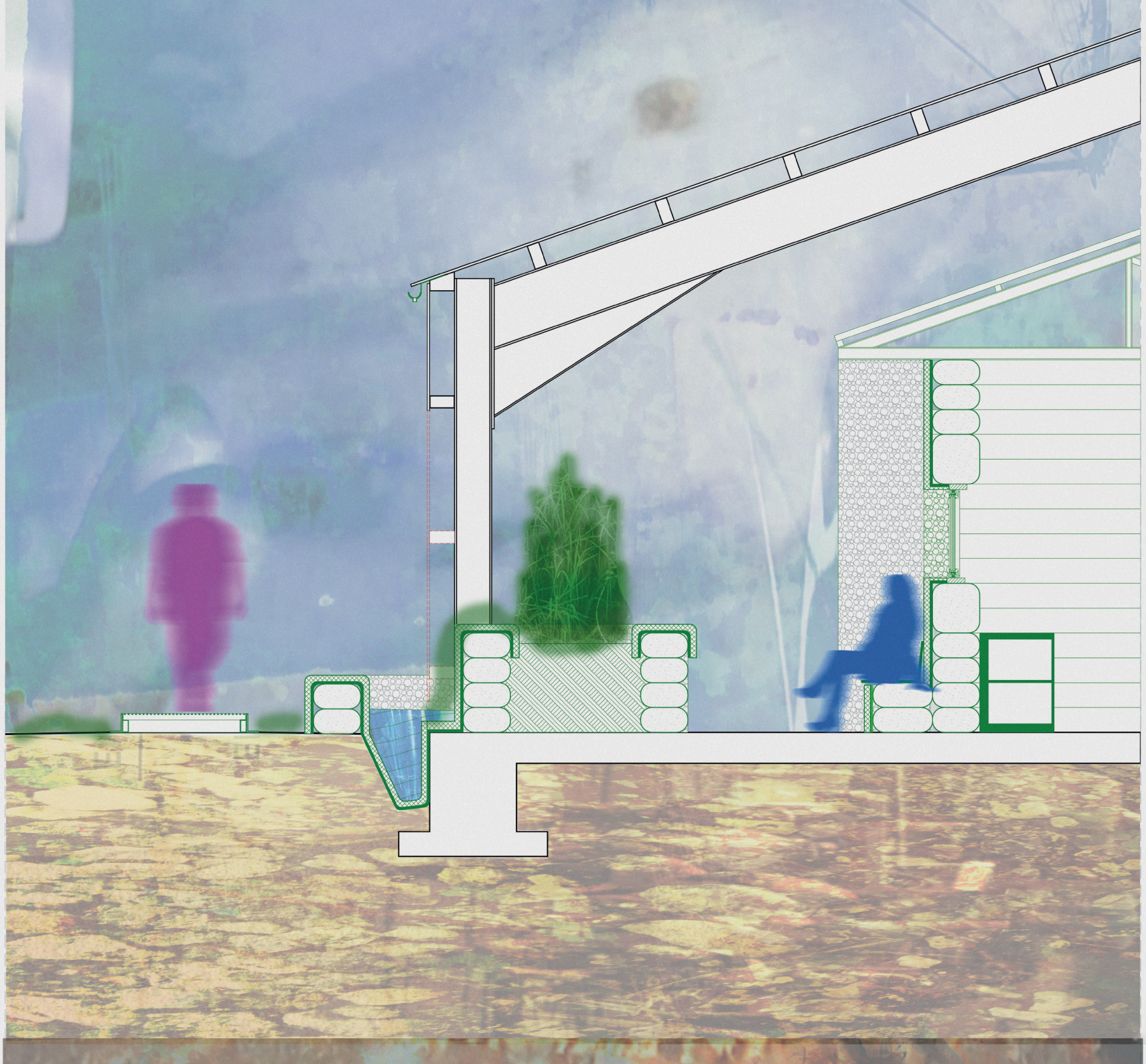
Cross Section

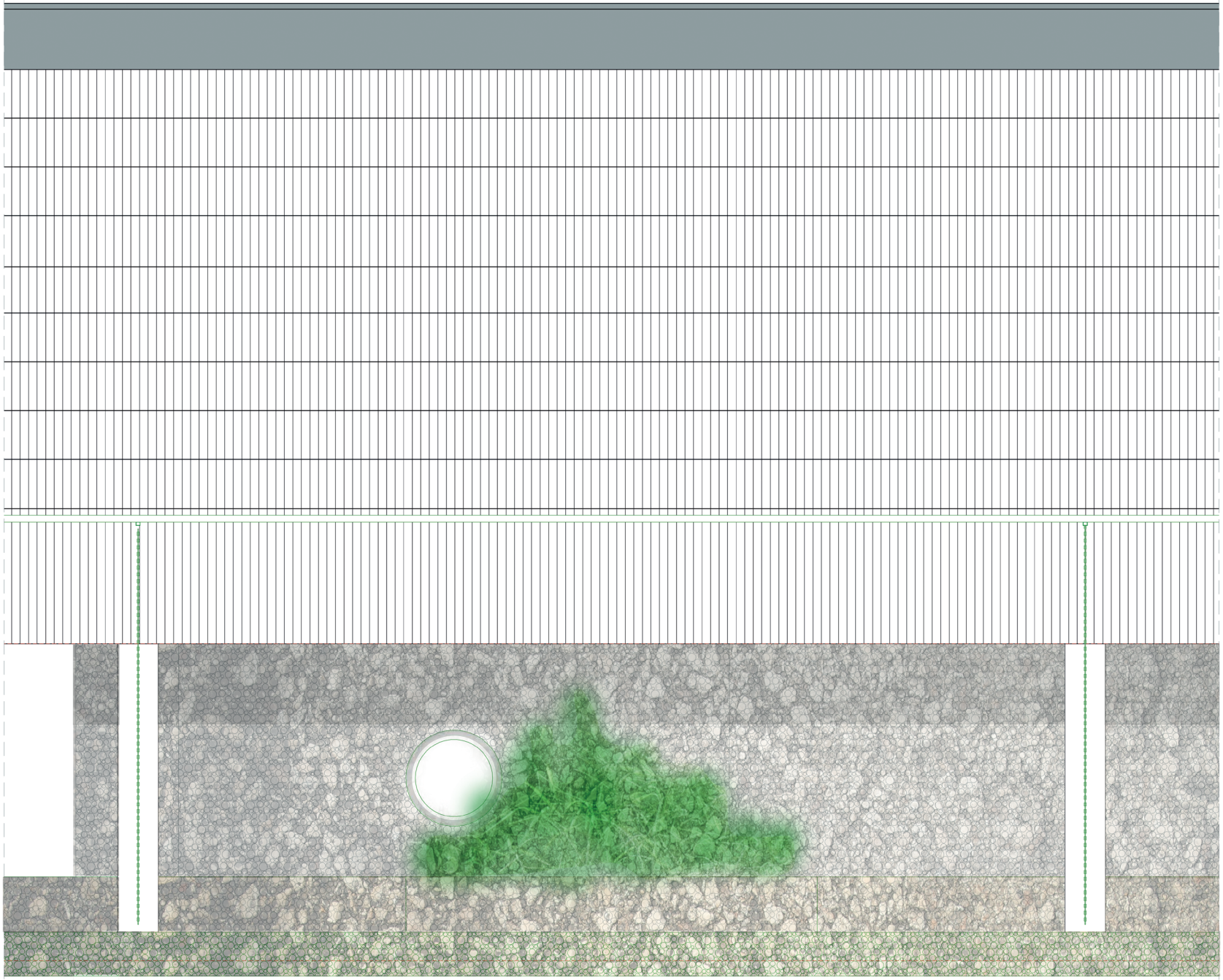


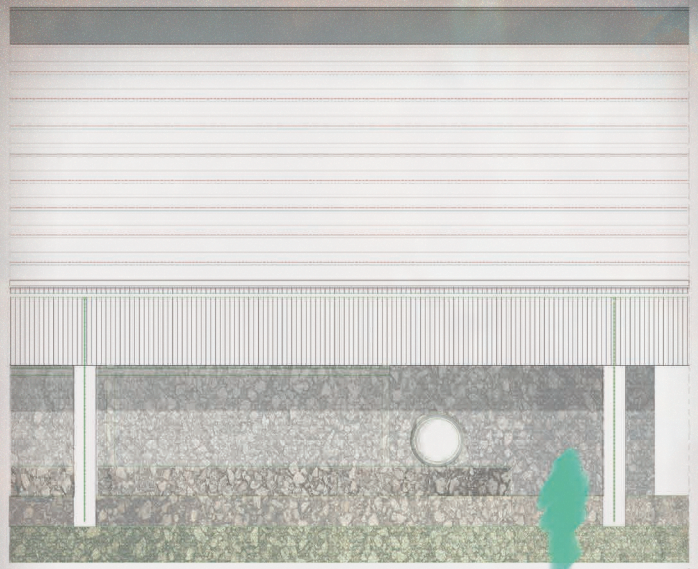
Elevation



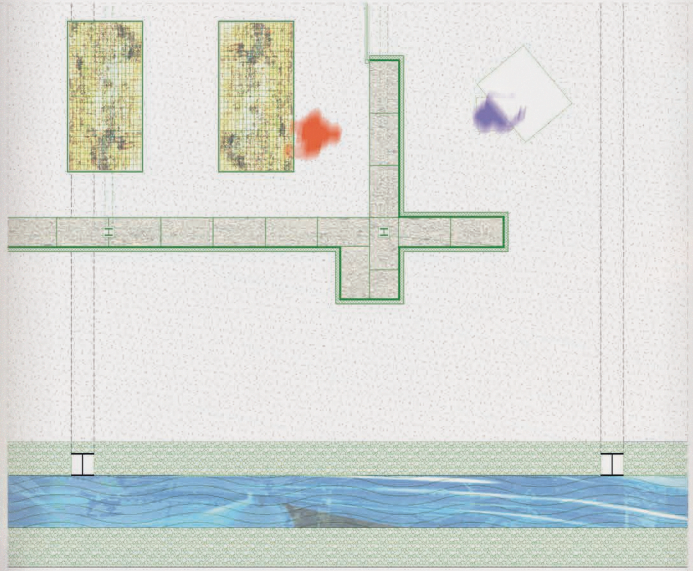
Plan



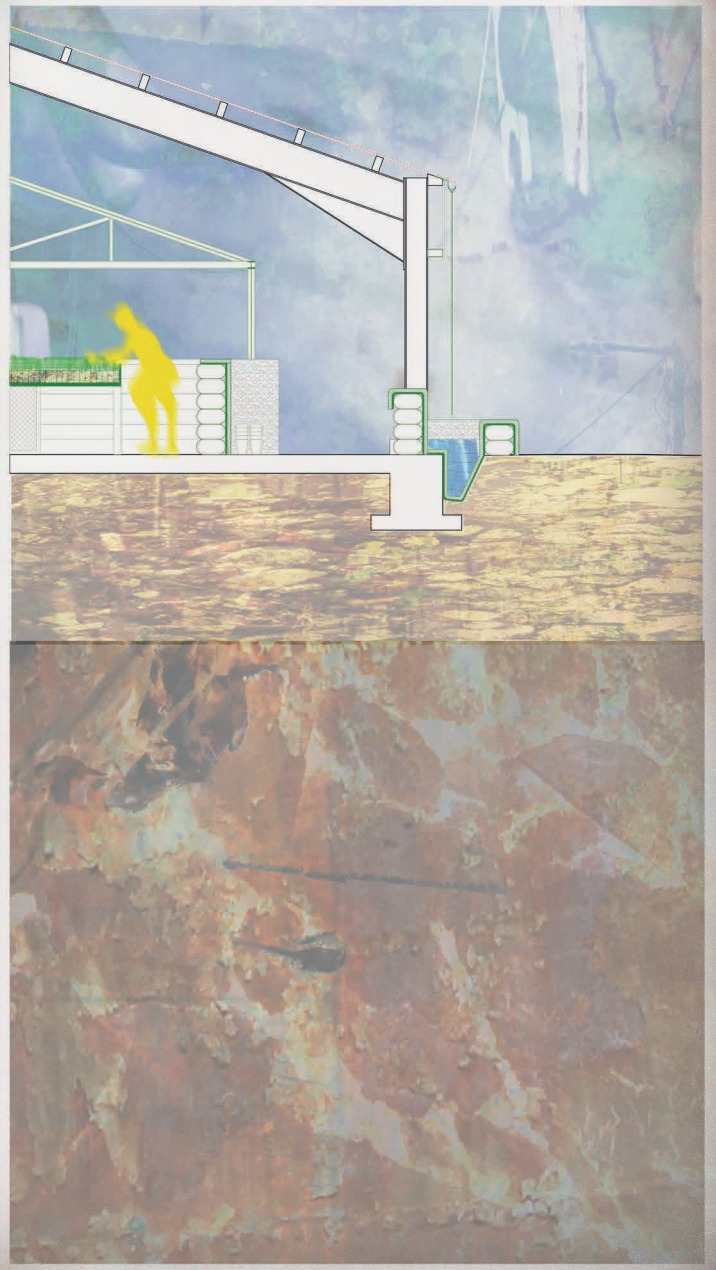




Elevation

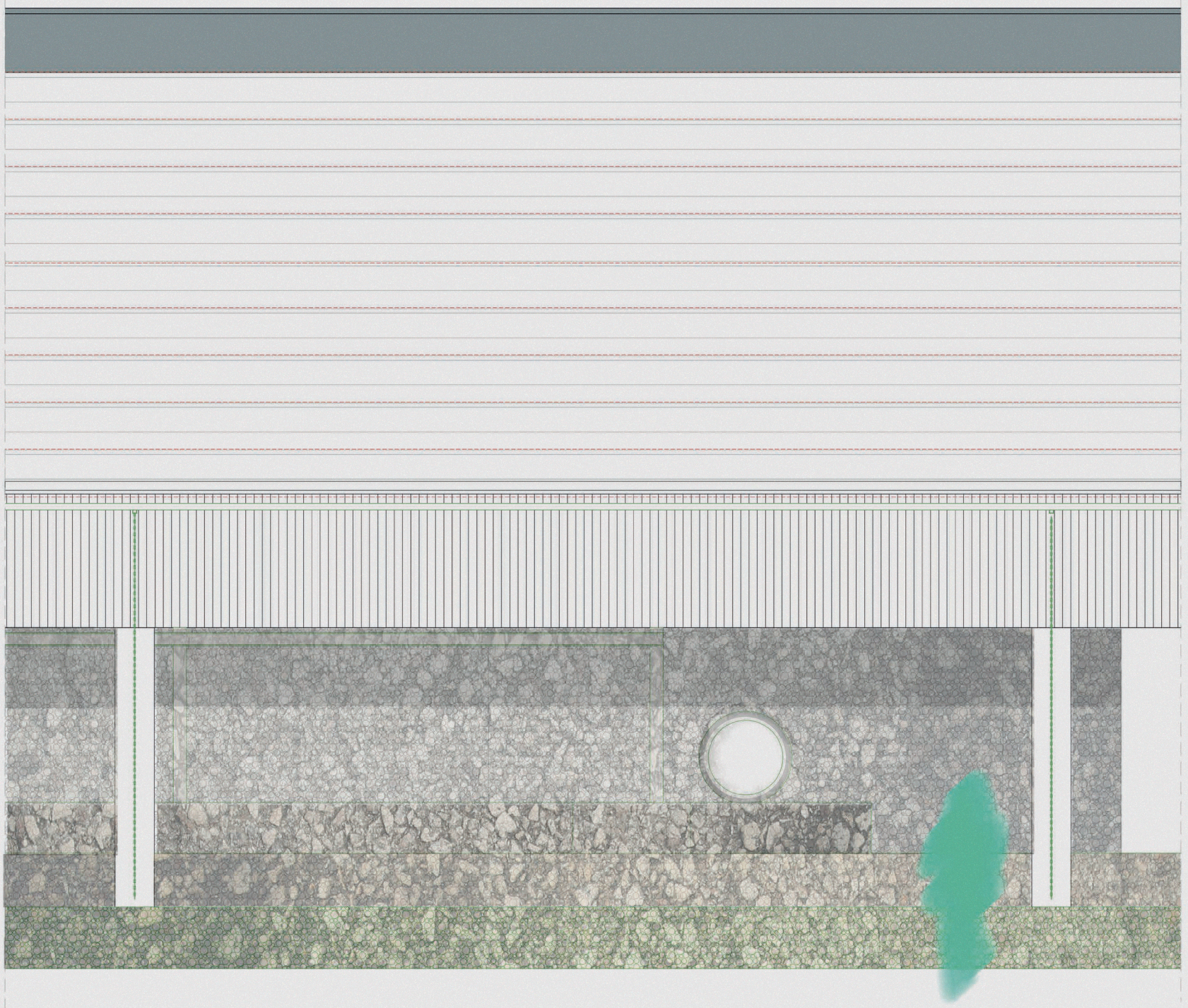


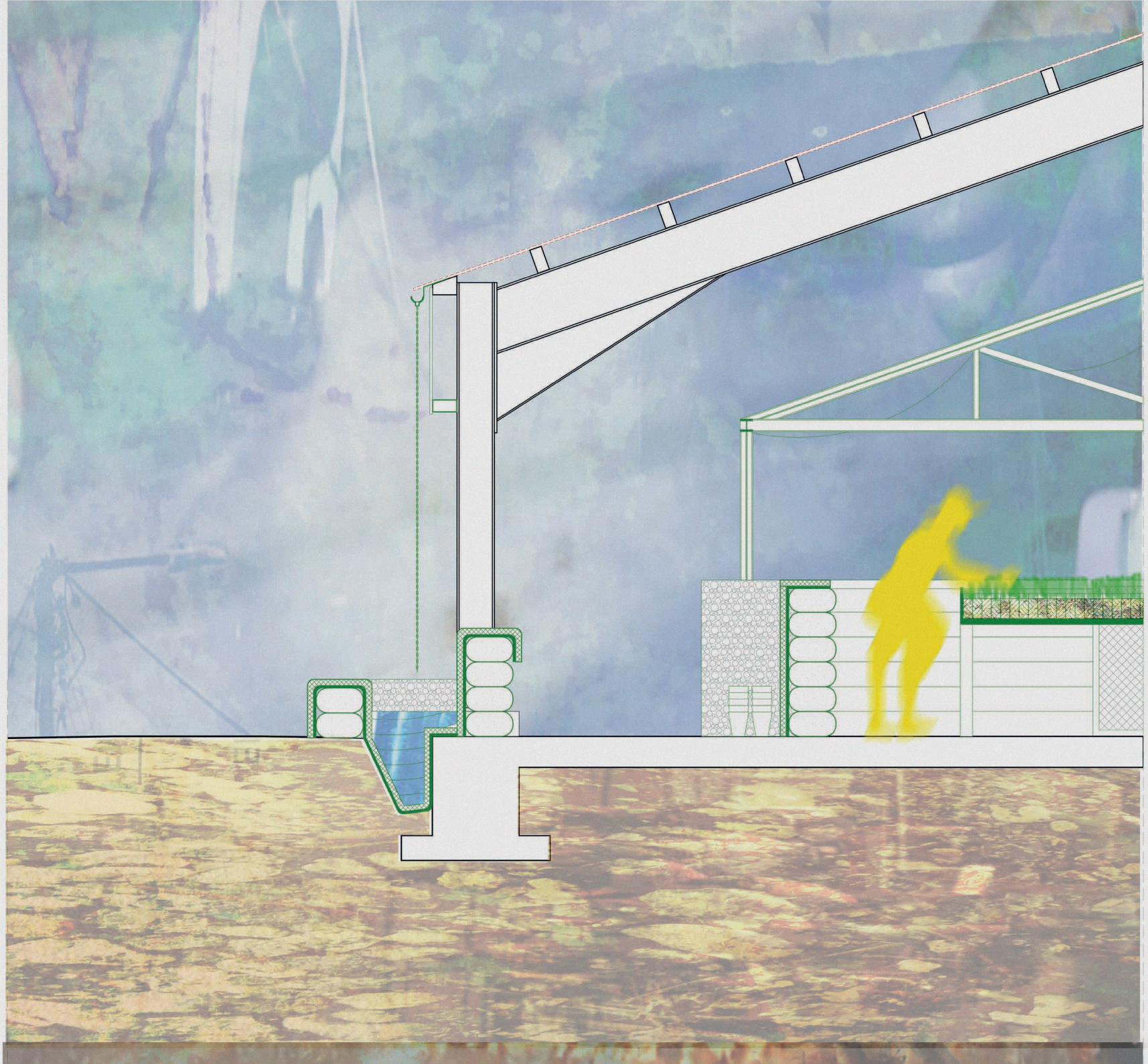
Cross Section

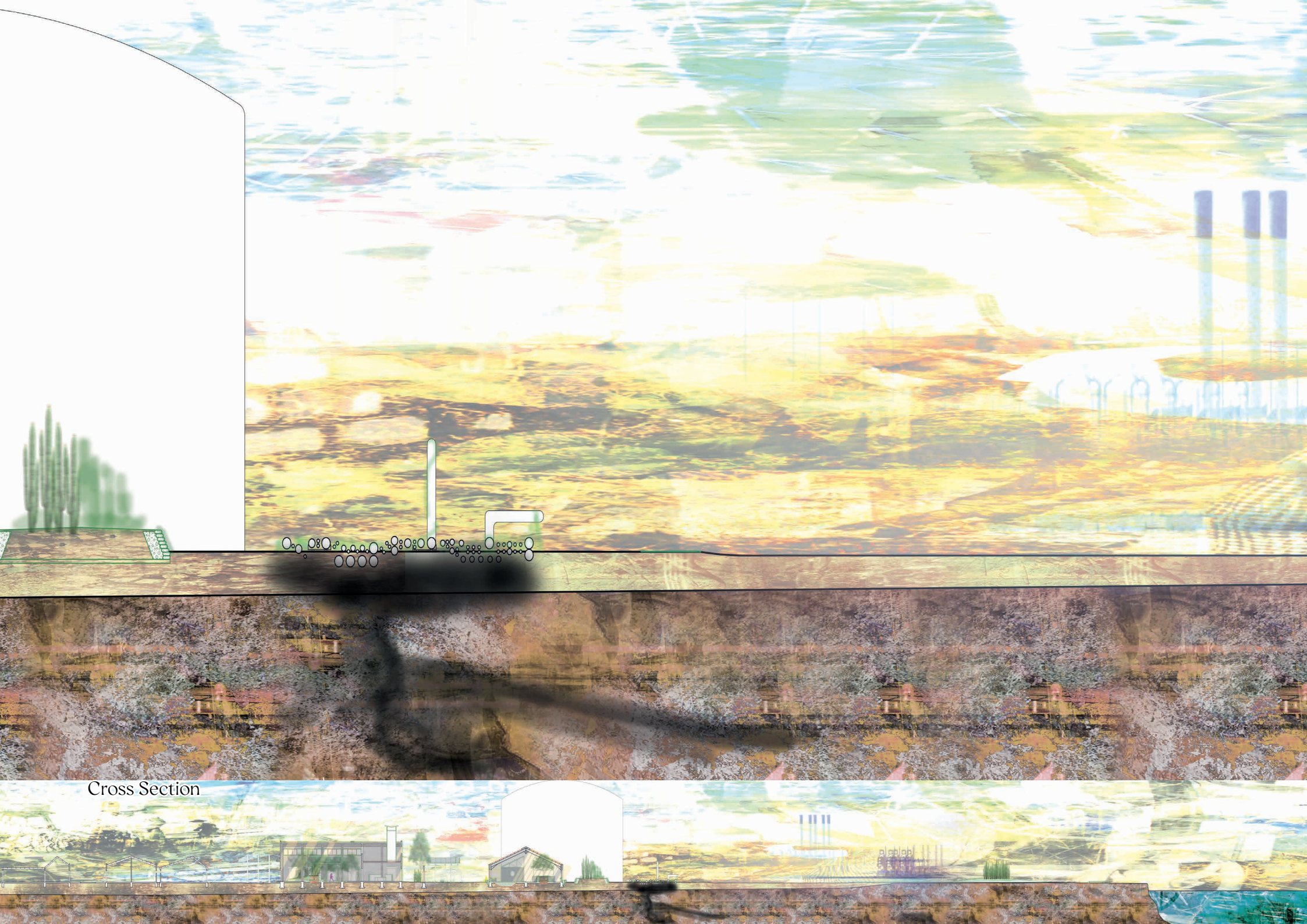


Plan

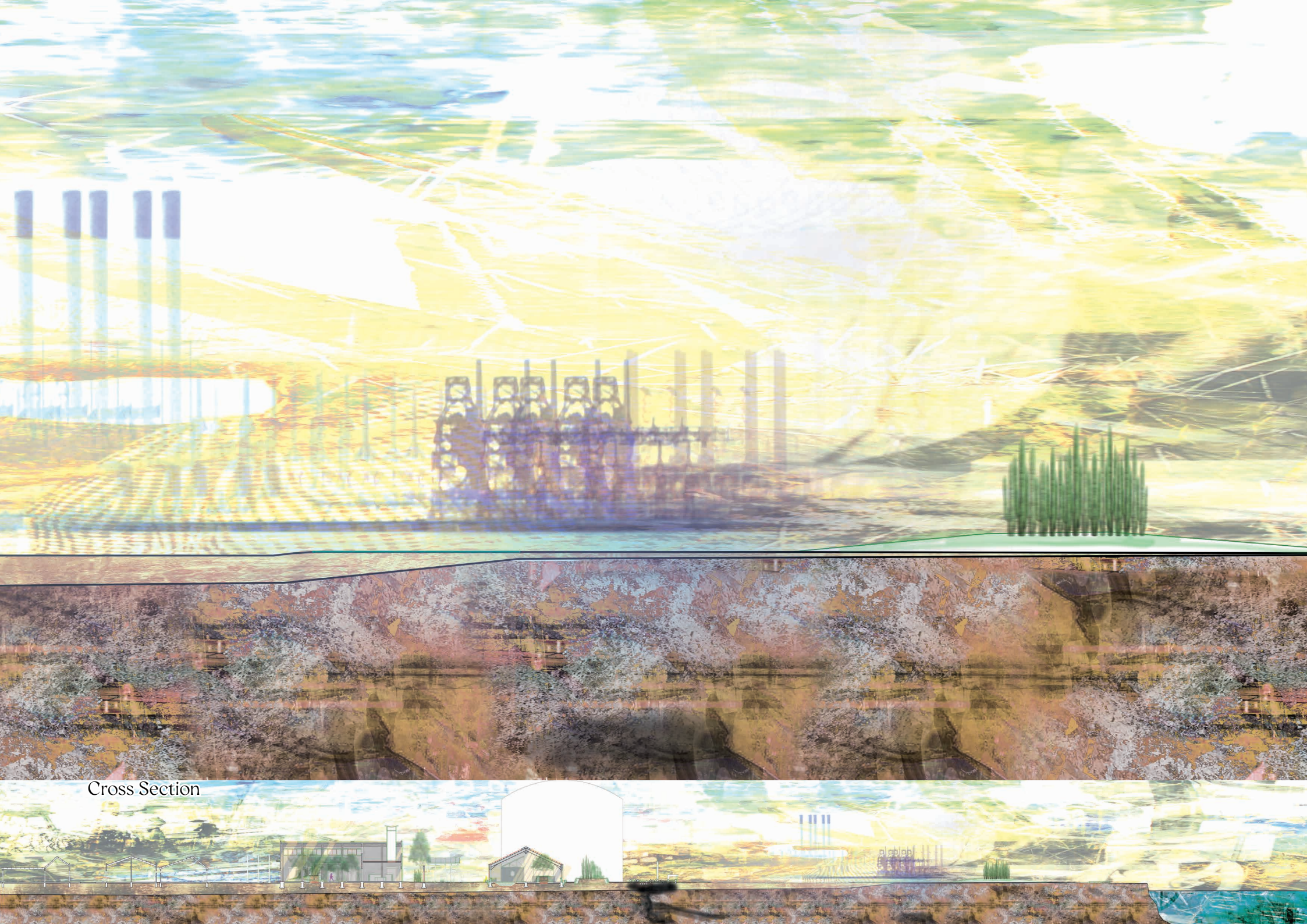
Facade Fragment – Nursery Southside







Cross Section



Cross Section



Cross Section


Masha Danki!

Image Credits

Image Credits: All collages presented in this work are produced by the author and are composed of a combination of original fieldwork photography; diagrams; drawings; archival materials (Courtesy of Coleccion Aruba); public Youtube videos and news reports. These materials are edited and assembled as part of a speculative counter-mapping research method.

"Coleccion Aruba." Uploaded by Archivo Nacional Aruba (ANA), Biblioteca Nacional Aruba (BNA), and Union di Organisacion Cultural Arubano (UNOCA), accessed through September 2024 through April 2026, https://coleccion.aw/.

Archival Images can be accessed from the https://coleccion.aw/ and their designated image address:

Image 1: ?BNA-DIG-LAGO-SLIDES-036-014
Image 2: ?BNA-DIG-LAGO-SLIDES-020-007
Image 3: ?BNA-DIG-LAGO-SLIDES-007-104
Image 4: ?BNA-DIG-HARTOG-CAHA-001-012-055
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Image 12: ?ANA-DIG-VANEERDEN-II-189
Image 13: ?BNA-DIG-SNAPSHOTS-002-007
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Pueblo Prome [MICHAEL WILLIAMS]. "Aruba Refinery Video 04 - June 13 2021," June 24, 2021. https://www.youtube.com/watch?v=CM-VjLYpYhM.

Image 11

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Image 15