

CAÑAS DE LUZ

Amid muted shadows and vivid memories,
the land of Arsenal breathes history.
Here, where darkness once hid names,
the light reignites to
illuminate what still endures.
From the earth springs the cane,
green, stubborn, still sweet.
From its roots emerge stalks,
sprouting like beacons of remembrance.
They are voices rising toward the sky,
illuminating what time sought to silence.
Stalks of light rise across the land,
each holding a name, a sigh,
a gesture that memory transforms into life.
A landscape where pain takes root
and absence becomes presence.
Here silence has a voice,
and "Never Again" shines as a promise.



OUR TEAM



Bringas Nadine



Lazarte Agustina



Ramirez Maria Dolores



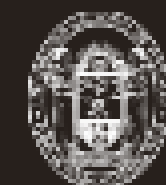
Mafud Camila



Vega Josefina

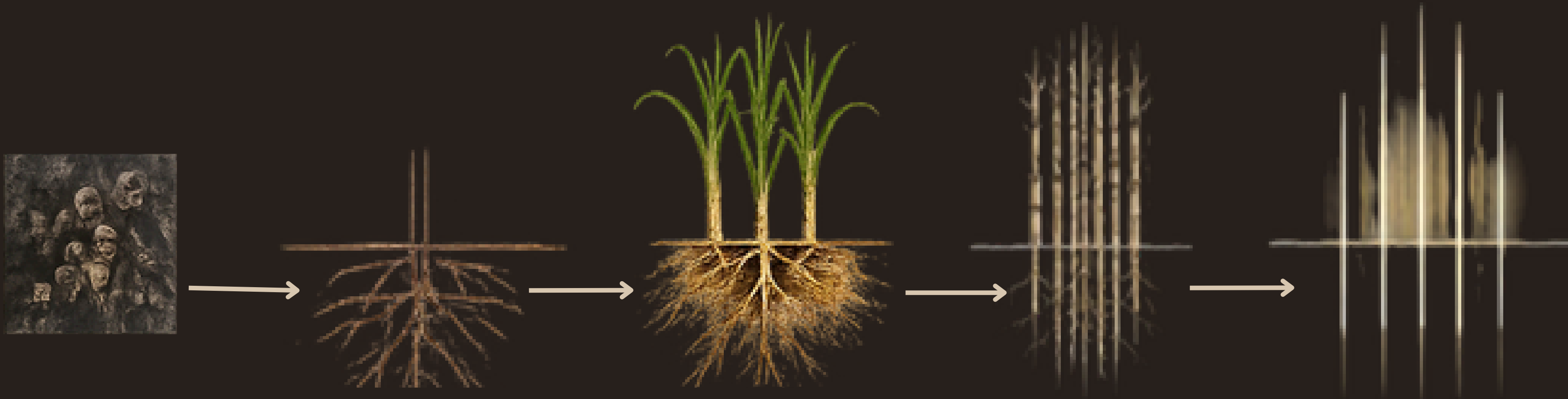


Witthaus Lucila



UNIVERSIDAD
NACIONAL
DE TUCUMÁN

CONCEPTUAL IDEA



EARTH

Memory and peace

ROOT

What sustains
and remains.

CANE

Life that grows
from memory.

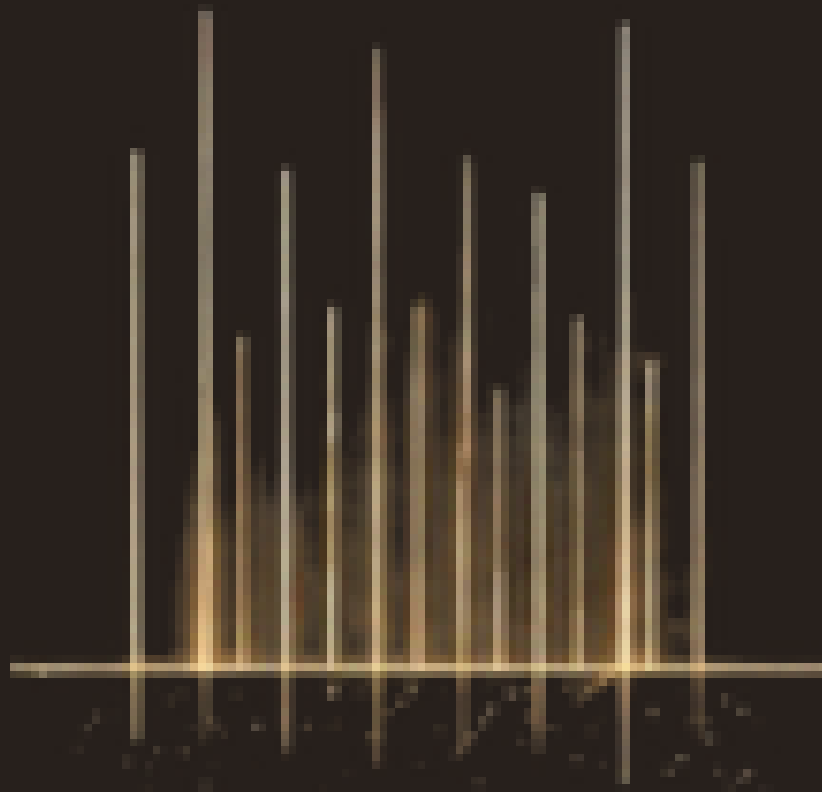
STEM

Signs of memory
that rise up

LIGHT

Living memory, justice
and hope.

Sugarcane is not just a crop: it is part of Tucumán's history, economy, and cultural landscape. For generations, it defined the province's horizon and sustained the livelihoods of many communities. But it also bore witness to deep wounds: the closure of sugar mills under the dictatorship, job losses, displacement, poverty, and, later, the violence, deaths, and disappearances that scarred the region. From this land marked by pain emerges the concept of Cañas de Luz.



1-OUTBREAK

The cane grows from the earth.



2-DISPERSION

The cane fall randomly within the territory.



3-CONNECTION

The canes transform into routes that connect and structure the territory.



4- LIVING TERRITORY

Routes that connect landscapes and community.



LOCATION



ARGENTINA



TUCUMÁN PROVINCIA

It is located in the center of
Northwestern Argentina



SECTOR

It is located north of AMET.

THEORETICAL FRAMEWORK

SOCIAL URBANISM

Cañas de Luz embraces social urbanism as a strategy to reconnect fragmented territories through mobility, public space, memory, and community. Inspired by Medellín, the project repurposes existing disused railways and transforms them into a new train corridor capable of bringing neighborhoods closer together, activating routes, and creating opportunities for social interaction.

In this way, the Former Arsenal ceases to be an isolated edge and becomes an active node within a more connected, inclusive, and livable metropolitan network.



SPONGE CITY

The Sponge Corridor is proposed as an environmental strategy in response to the high rainfall levels in our city. Through a green and absorbent route, it seeks to mitigate the impact of rainwater by reducing runoff and flooding in the most vulnerable areas.

Inspired by sponge cities around the world, it incorporates permeable spaces, green areas, retention ponds, and floodable parks, transforming water into an active part of the urban landscape while creating public spaces that are more livable, resilient, and connected.



MACRO SCALE

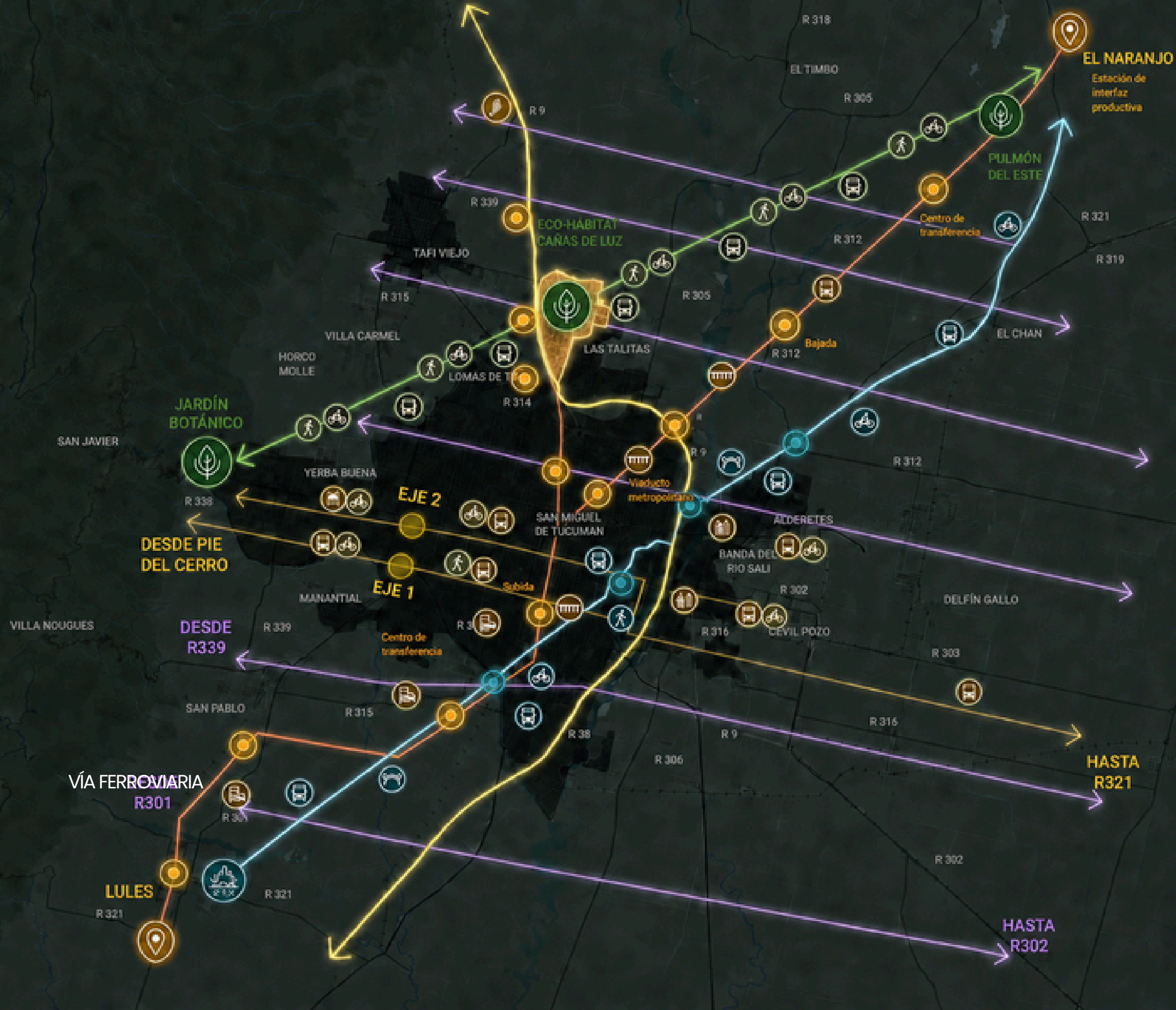
DESCRIPTIVE REPORT

The Cañas de Luz proposal outlines a new framework for integration in the Tucumán Metropolitan Area, capable of reconnecting a territory fragmented by physical barriers, scattered growth, and uneven centers of activity. Starting from the Ex Arsenal, the project's design elements transform into environmental, infrastructural, and mobility corridors, connecting currently isolated areas and creating new urban opportunities.

The intervention organizes a system of complementary pathways:

- The **Ecological Pathway** links the Horco Molle Botanical Garden, the Cañas de Luz Ecohabitat, and the Pulmón del Este, consolidating a continuous environmental corridor.
- The **Sponge Pathway** incorporates retention ponds, flood-prone parks, and absorbent surfaces to address water-related risks.
- The **Railway Route** repurposes existing tracks for an electric train between Lules and El Naranjo, with strategic transfer hubs.

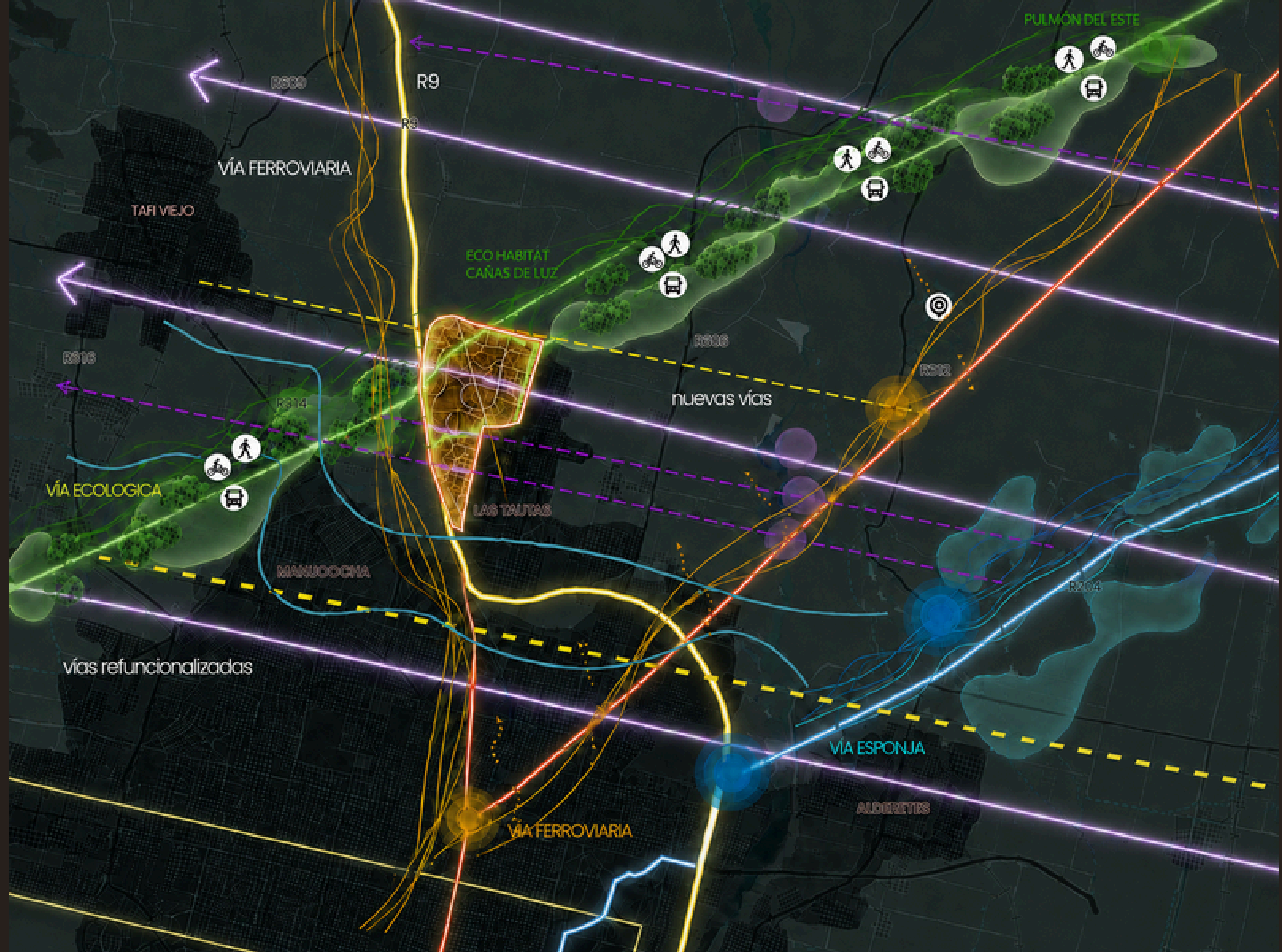
Together with the repurposed routes and new connections, these initiatives strengthen east-west connectivity and improve accessibility to outlying areas.



MESO SCALE

DESCRIPTIVE REPORT

At the meso-scale, the proposal focuses on the area surrounding the former Arsenal and its relationship with Taquí Viejo, Lomas de Taquí, Las Talitas, Alderetes, and the Pulmón del Este. The project aims to transform a sector marked by infrastructure, urban voids, and poorly integrated peripheries into an active component within the metropolitan structure. In this regard, the Ecological Corridor serves as the main axis of connectivity, while the Railway Corridor, the Sponge Corridor, and complementary connections link nearby centers, improve relations between neighborhoods, and strengthen the territory's environmental resilience.



SECTOR SCALE

DESCRIPTIVE REPORT

At the neighborhood level, the project focuses on the redevelopment of the former Arsenal site, transforming a historically closed-off area into a new public, livable, and connected landscape. The Parque de la Memoria establishes itself as the symbolic core of the project, preserving the site's traces and integrating them with the Cañas de Luz Ecohabitat, green spaces, community facilities, boulevards, pedestrian paths, and bike lanes. The proposal strengthens the connection with Route 9, Constitución Avenue, and the future Pelli Civic Center through new access points, crossings, and an elevated ecological pathway.

In this way, the Ex Arsenal ceases to function as an urban boundary and transforms into a vibrant hub of active memory, metropolitan integration, and collective healing, where mobility, the environment, public space, and community come together as part of a more connected, inclusive, and livable city.

- Arterial roads:
- Route 9
- Feeder roads:
- Greenway
 - Main boulevard
 - Secondary boulevard
 - Internal streets
 - Local streets



1- NORTH ENTRANCE

"CAÑAS DE LUZ"
MEMORIAL PARK

PELLI CIVIC CENTER



“CAÑAS DE LUZ”
MEMORIAL PARK

PELLI CIVIC CENTER



2- DIAGONAL ACCESS - DOWNTOWN

"CAÑAS DE LUZ"
MEMORIAL PARK

PELLI CIVIC CENTER



PELLI CIVIC CENTER

“CAÑAS DE LUZ”
MEMORIAL PARK



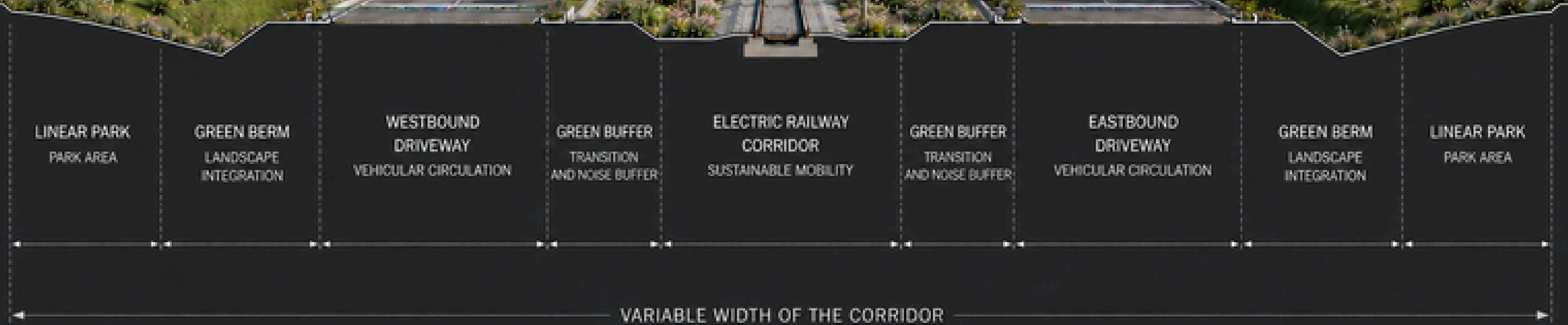
3-SOUTHERN TRIANGLE ACCESS

“CAÑAS DE LUZ”
MEMORIAL PARK



"CAÑAS DE LUZ"
MEMORIAL PARK





SECTION ROUTE 9



SIDEWALK



BIKE LANE



FAST
LANES



ECOLOGICAL GREEN SPACE

Native vegetation - Ecological corridor -
CO₂ absorption - Microclimate improvement



FAST
LANES



BIKE LANE



SIDEWALK

SECTION ECOLOGICAL PATHWAY



LINEAR PARK
PARK AREA

GREEN BERM
LANDSCAPE
INTEGRATION

WESTBOUND
DRIVEWAY
VEHICULAR CIRCULATION

GREEN BUFFER
TRANSITION
AND NOISE BUFFER

ELECTRIC RAILWAY
CORRIDOR
SUSTAINABLE MOBILITY

GREEN BUFFER
TRANSITION
AND NOISE BUFFER

EASTBOUND
DRIVEWAY
VEHICULAR CIRCULATION

GREEN BERM
LANDSCAPE
INTEGRATION

LINEAR PARK
PARK AREA

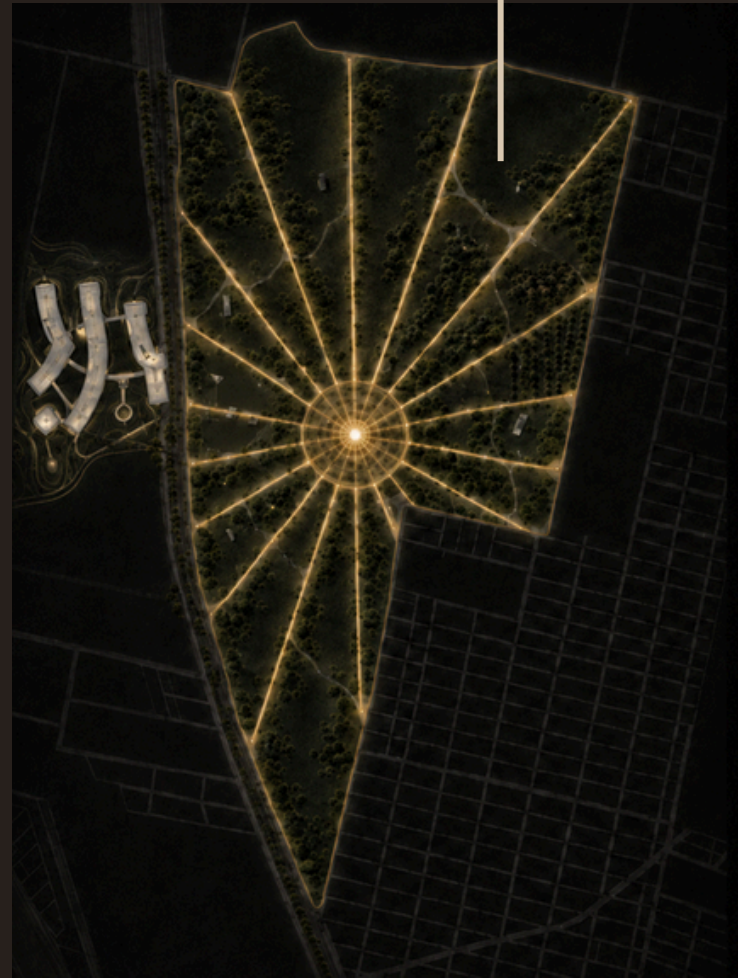
ANCHO VARIABLE DEL CORREDOR

SECTION SOUTHERN TRIANGLE ACCESS

URBAN DEVELOPMENT OF THE AREA

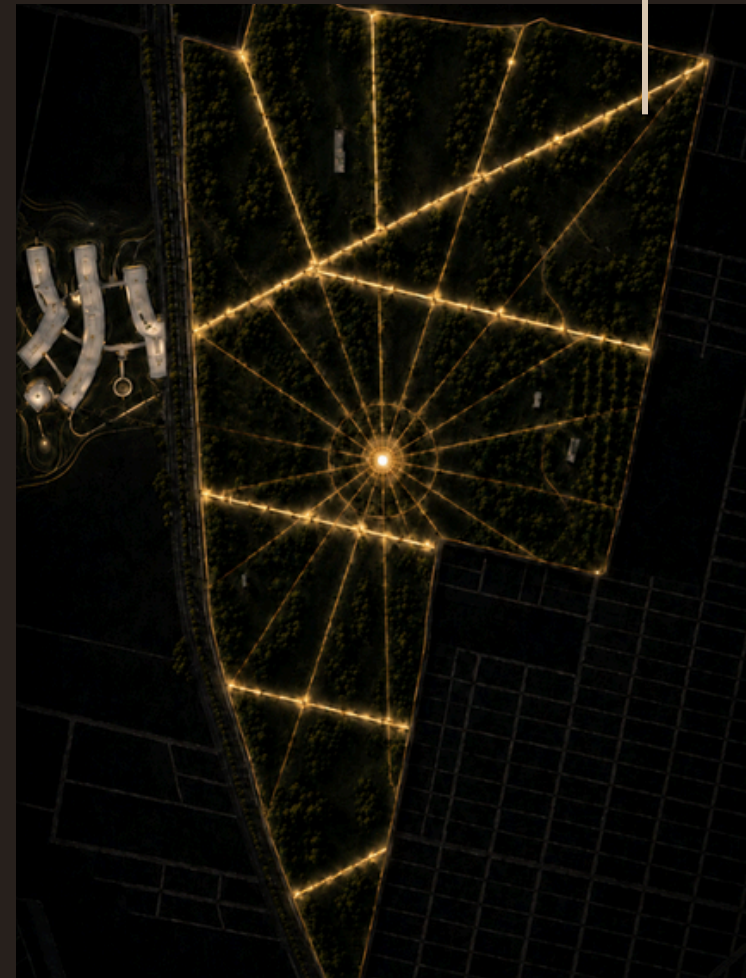
The Ex Arsenales Memorial Park project is structured around the concept of the "cañas de luz" a metaphor that transforms the site into a space where memory expands and becomes visible.

FLASHES OF LIGHT



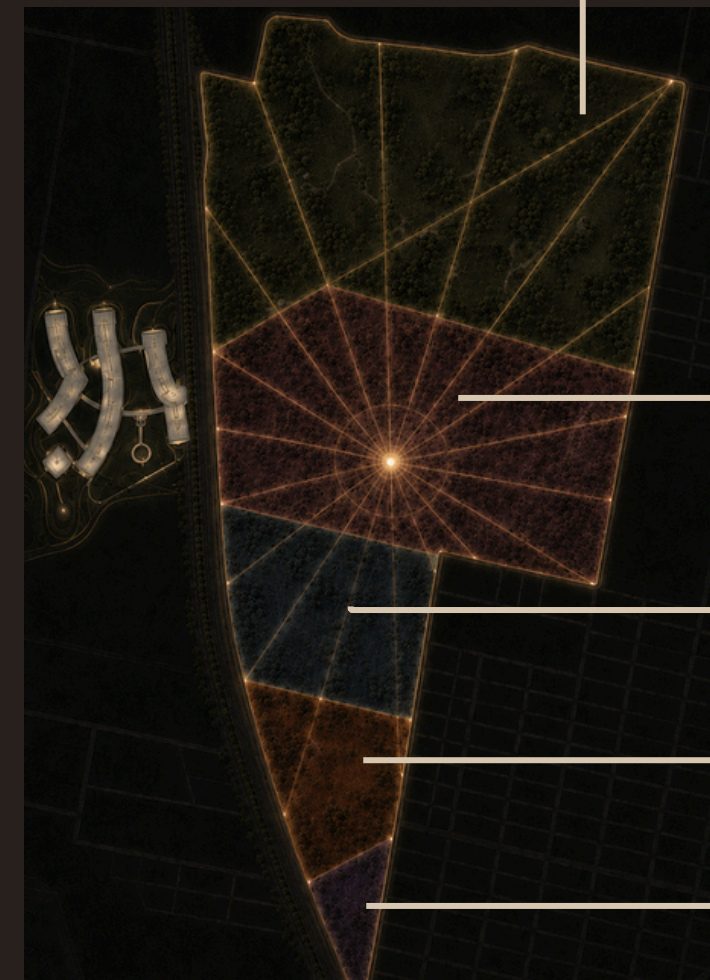
From the area of the pits, light spreads across the landscape: it scatters in flashes and takes different directions, tracing the first outlines of the new spatial order.

STRUCTURAL STALKS



A bundle of reeds falls across the property, spreading out in all directions.

NUEVO PROYECTO URBANÍSTICO «ECO HABITAT»



The expanding light and the supporting stems define the overall layout of the complex:

MEMORIAL PARK AREA

INTERPRETATION CENTER AREA

UNT SECTOR

AMPLIACIÓN DEL PROYECTO DE URBANISMO ACTUAL



"ECO HABITAT" HOMES

PELLI CIVIC CENTER

MEMORIAL PARK
"CAÑAS DE LUZ"

INTERPRETATION CENTER

UNT

ECOHÁBITAT CAÑAS DE LUZ

MEMORIA DESCRIPTIVA

This housing complex, designed for visiting scientists, tourists, and forest rangers, is conceived as an eco-habitat—an open, permeable, low-density fabric that emerges from the recognition of the area as one of high environmental and scenic value. The presence of the ecological conservation forest guides the proposal toward a respectful form of occupation, where the natural landscape is not viewed as a backdrop but as the project's primary structure.

Based on this concept, the proposal extends the Cañas de Luz into the surrounding urban territory and integrates the park, existing neighborhoods, and natural landscape into a single system of relationships, transforming a historically isolated area into an active hub of gathering, memory, and community life.

The Ecohabitat incorporates low-density housing, productive areas, common spaces, pedestrian paths, bike lanes, and renewable energy sectors, promoting a sustainable, collaborative way of living in dialogue with the site's history.

Guided by the Cañas de Luz and the existing natural features, the clusters of homes prioritize a balance between the built environment and the natural surroundings. It is conceived as a way to restore connections: between memory and the future, between landscape and city, between community and territory.



PHOTOZOOLOGICAL GARDEN

PHOTOVOLTAIC
PARK

"ECO HABITAT" HOMES

ECOLOGICAL CONSERVATION FOREST

PELLI CIVIC CENTER

FARMING AREA

1-URBAN FORM

An open, organic fabric integrated into the landscape.

The eco-villages are grouped into low-density clusters, surrounded by forests, green spaces, and pedestrian paths.

2-URBAN STRUCTURE

A hierarchical transportation network that organizes the area.

It connects Route 9, major avenues, local streets, sidewalks, and low-speed lanes.

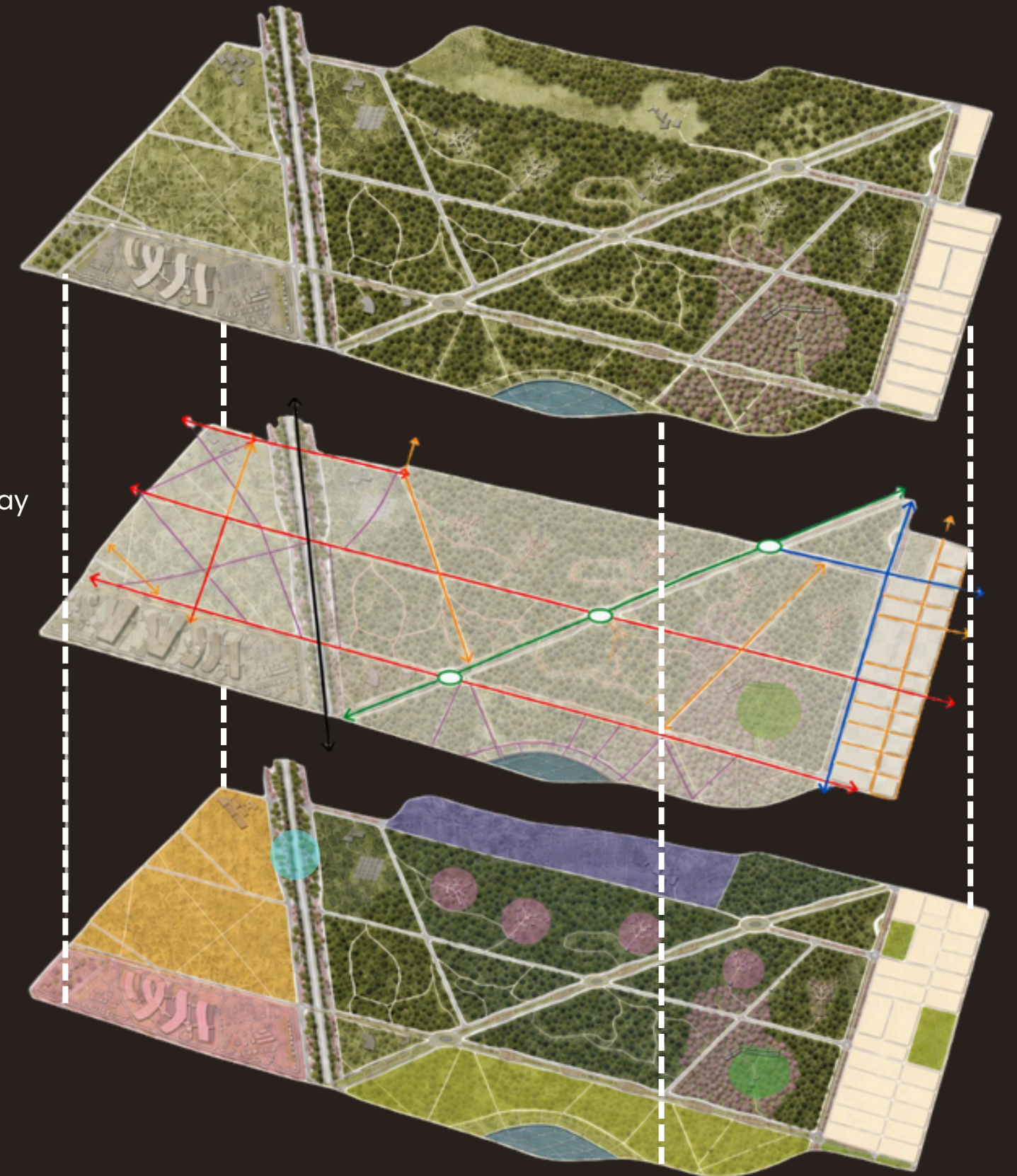
- | | |
|--|---|
| <ul style="list-style-type: none"> NATIONAL HIGHWAY - MAIN ROAD - BARRIER
Route 9: Metropolitan connector road. SECONDARY BOULEVARD - COLLECTOR ROAD
A neighborhood-scale thoroughfare. SECONDARY ROADS
Dirt roads and roads with less traffic. | <ul style="list-style-type: none"> MAIN BOULEVARD - COLLECTOR ROAD
It is an intermediate-level thoroughfare between the highway and local streets. STREETS - BUSINESSES
Side streets, one lane in each direction, with no median. SIDEWALKS
Paved pedestrian paths for internal connections. |
|--|---|

3-URBAN FUNCTION

Distribution of uses and activities that shape daily life in the eco-habitat.

It integrates housing, community areas, productive spaces, ecological conservation, and public green spaces.

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> Existing residential area Ecological conservation forest Public green spaces Community/Institution | <ul style="list-style-type: none"> EcoHabitat Crop Area Solar Farm Phytological Garden | <ul style="list-style-type: none"> Citrus fruits |
|--|--|--|

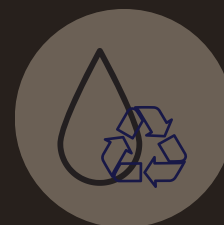


HOUSING, COMMUNITY, AND LANDSCAPE

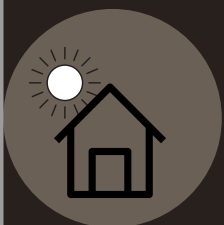
A low-density eco-neighborhood in the northern section of Parque de la Memoria (formerly the Arsenals). Residential complexes integrated into the landscape and connected by shared spaces for gathering, collaboration, and learning.



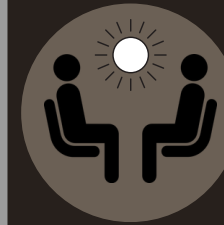
HOUSING
In small, low-rise
complexes



**SUSTAINABLE
MANAGEMENT**
Rainwater harvesting,
biogas digesters, and
recycling/composting



**BIOCLIMATIC
STRATEGIES**
Energy efficiency
and minimal impact
on the site



COMMON SPACES
Gatherings,
collaboration, and
community
learning



LOW-DENSITY
Low-rise homes
that blend into
the landscape

CAÑAS DE LUZ
MEMORIAL PARK

DESCRIPTIVE REPORT

The Park of Remembrance is conceived as a space for reflection, gathering, and community life, where memory, landscape, and the city reconnect.

The proposal stems from the concept of "Stalks of Light," materialized in a network of paths that radiate from different points on the site and converge in a large central circle, the symbolic heart of the park. Their twists and turns evoke stalks that emerge, grow, and expand, guiding visitors through a sensitive and meaningful spatial experience.

The landscape preserves the existing vegetation and enhances it with native species, creating shade, biodiversity, and spaces for contemplation.

In the center of the historic promenade, around the pits, water is incorporated as a retention pond: an infrastructure capable of regulating runoff while simultaneously creating a space of calm, life, and reflection. Its presence accompanies the walk, reflects the light, and transforms the site's silence into a contemplative experience.

Thus, the former site ceases to be an urban barrier and becomes a permeable, accessible park open to the community: a landscape where memory becomes presence, and absence finds a place to be inhabited.

4. CAÑAS DE LUZ: MEMORY AND SYMBOL

A symbolic feature that crowns the Historic Walkway. The illuminated reeds represent living memory, presence, and hope. The light guides, protects, and transforms the walk into a contemplative experience.

3. HISTORICAL LOOP WALK

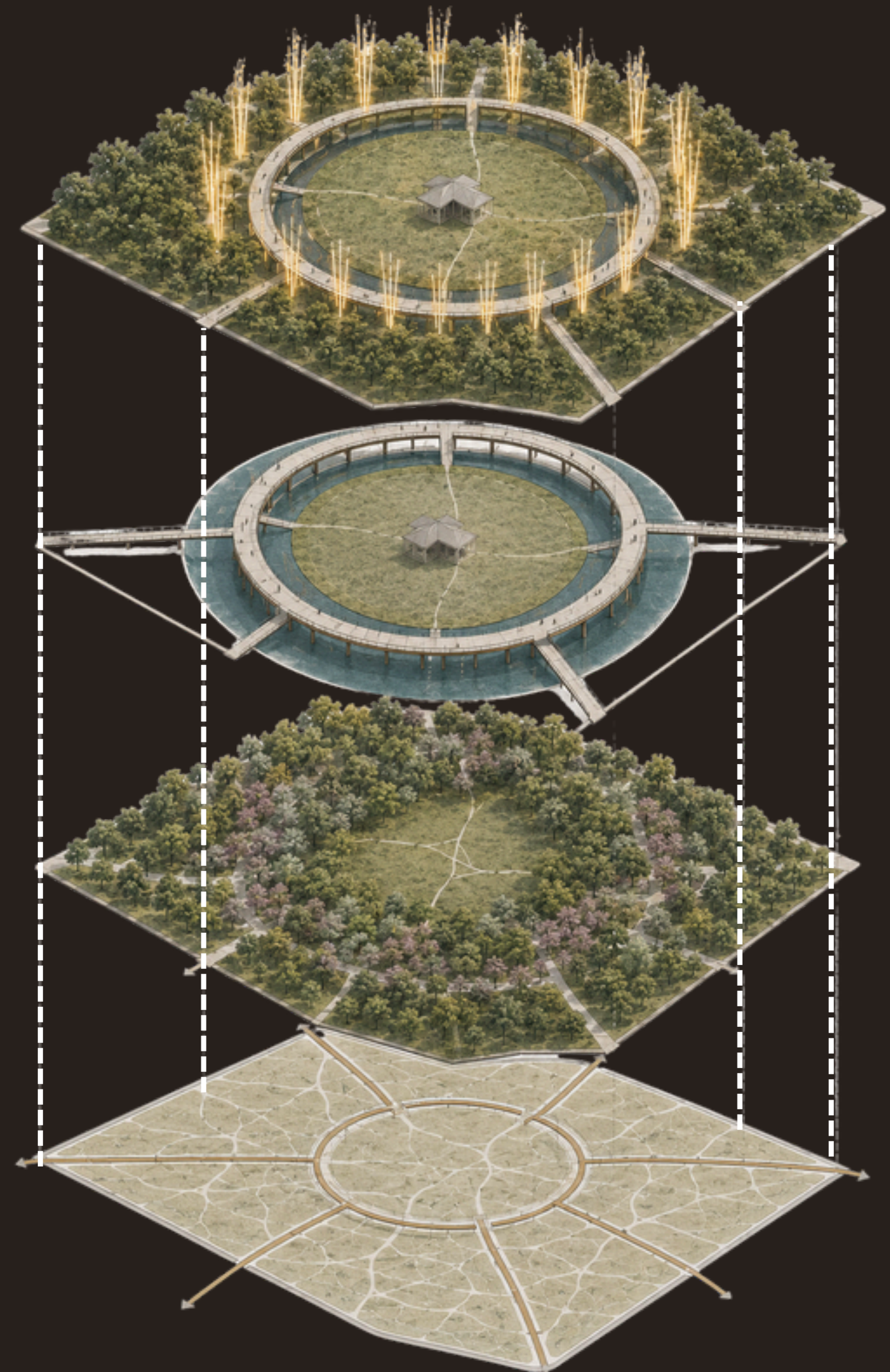
Recorrido elevado que envuelve las fosas de memoria. Pasarelas que conectan desde distintos puntos y permiten una mirada 360° del paisaje y del agua. El agua actúa como laguna de laminación, regulando y aportando calma y reflexión.

2. VEGETATIVE SYSTEM

Preservation and enhancement of existing vegetation. Introduction of native species, shrubbery, biodiversity, and protection of the memorial site.

1. HIKING TRAILS AND ROUTES

A network of paths that radiate from various points in the park and converge at the central circle. Organic lines that evoke the stems of reeds, guiding visitors toward the heart of memory.





PELLI CIVIC CENTER

D



A

BOTANICAL GARDEN

HISTORICAL WALK

FOSA

GALPON N9

B

C

B

C

INTERPRETATION CENTER

EDUCATION SECTOR

HEALTHCARE SECTOR

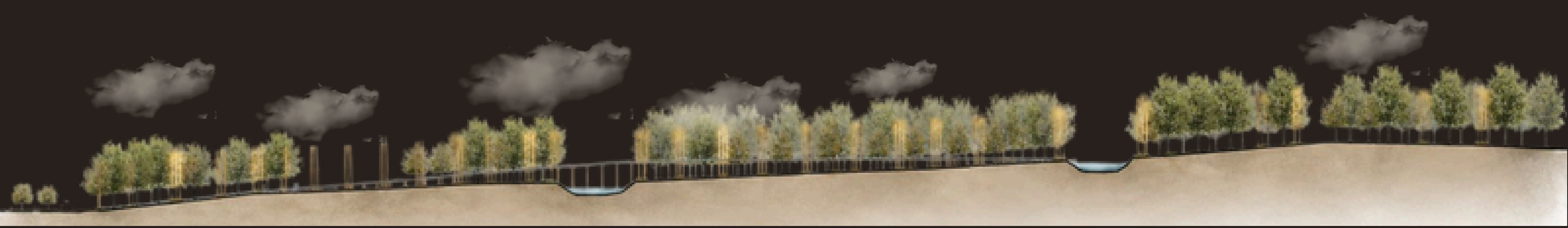
GAMING INDUSTRY

TRADE SHOW ZONE

D

A





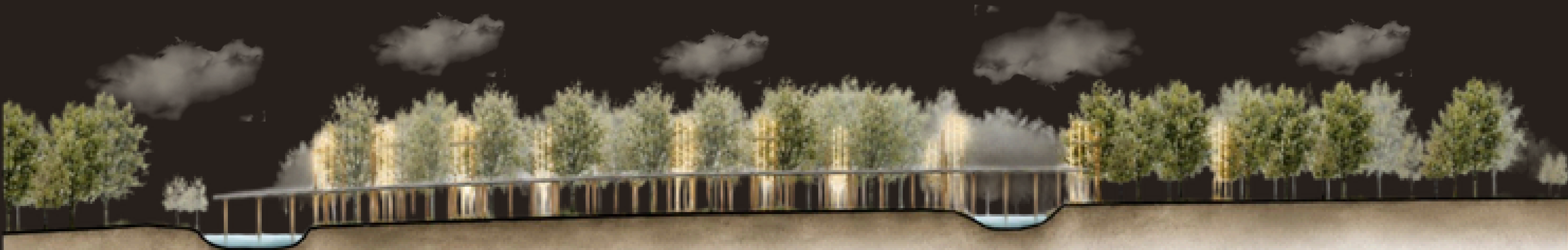
SECTION A-A SCALE 1:3500



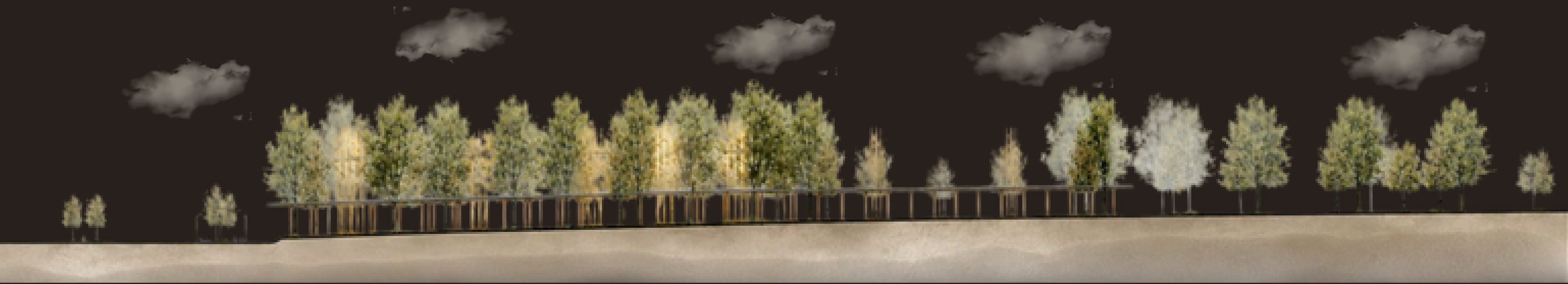
ZOOM ENTRANCE



ZOOM HISTORICAL TOUR



SECTION B-B SCALE 1:3500



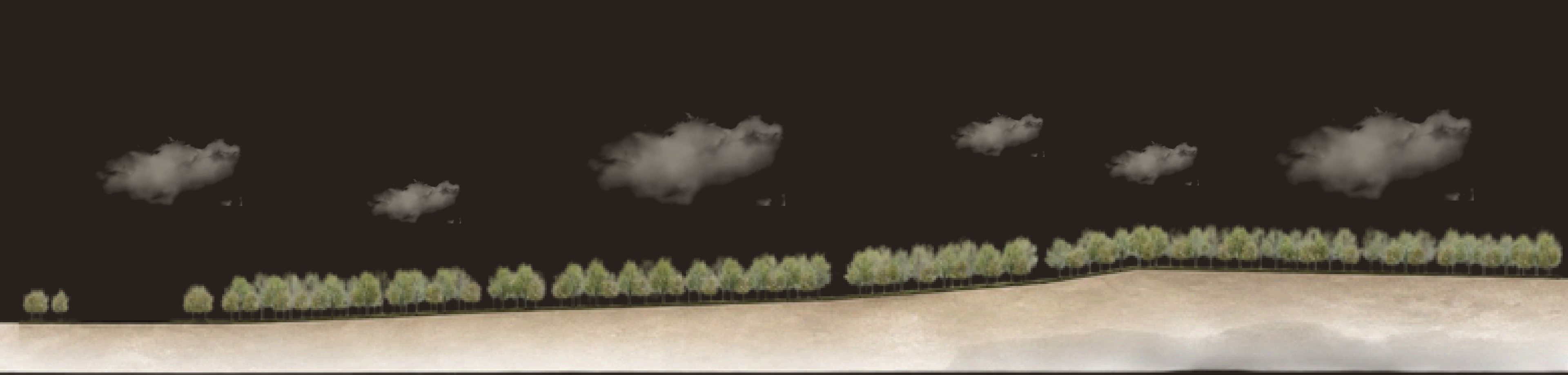
SECTION C-C SCALE 1:3500



ZOOM AMPHITHEATER



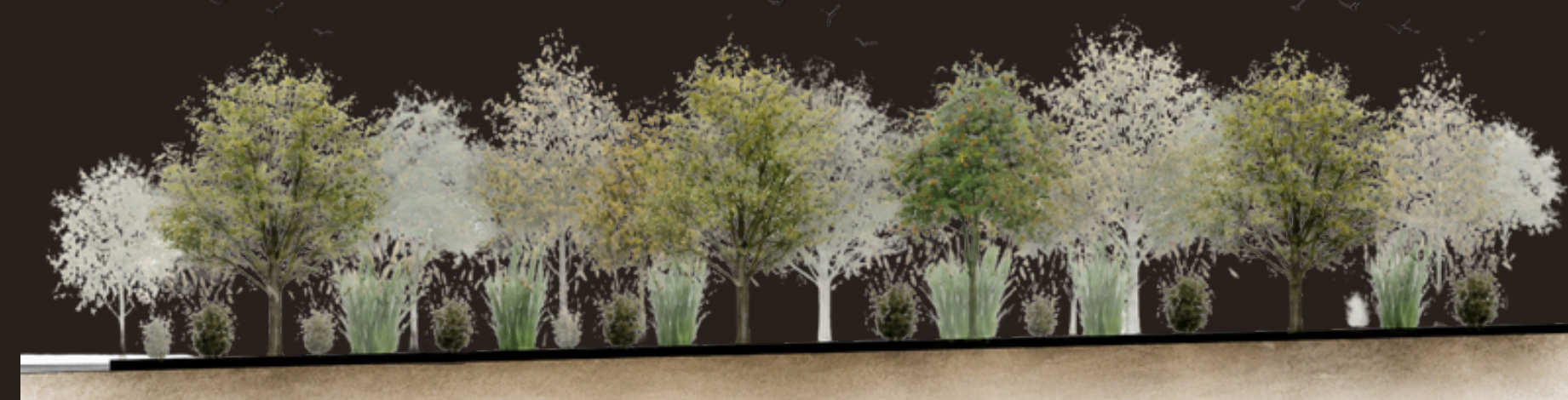
ZOOM TRADE SHOW ZONE



SECTION D-D SCALE 1:3500



ZOOM BOTANICAL GARDEN





PASEO HISTÓRICO CAÑAS DE LUZ

Parque Histórico
Cañas de Luz

- Plaza Central →
- Área Deportiva →
- Wander →
- Servicios →







The Historic Promenade forms the symbolic and structural heart of the Ex Arsenales Memorial Park. It is conceived as a space for calm and contemplation, designed to connect visitors with the history of the site. Its layout is inspired by the concept of “Cañas de Luz,” establishing it as the core of the park’s memory and meaning.

Its tranquil and introspective character invites visitors to stroll along it at a leisurely pace, conducive to reflection.

The landscape design, the use of understated materials, and the integration with the existing vegetation contribute to this atmosphere of respect and silence. In this space, memory becomes visible and tangible through the path and the light.





ÁREA EDUCATIVA
CAÑAS DE LUZ







JARDÍN BOTÁNICO
CAÑAS DE LUZ



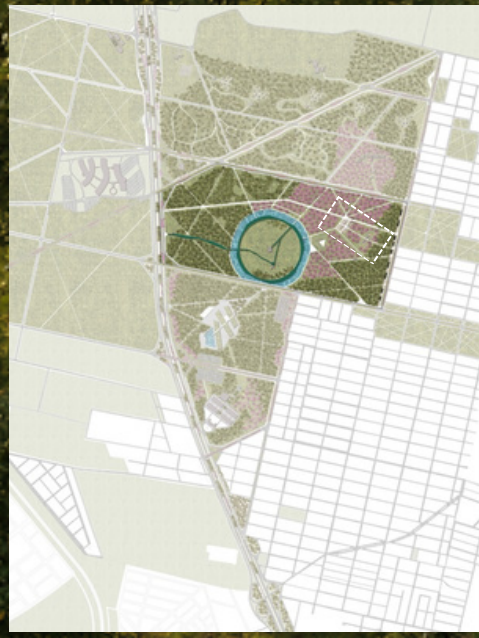




TRADE SHOW ZONE



SECTOR RECREACION



INTERPRETATION CENTER

DESCRIPTIVE REPORT



TERRITORY

History, Memory,
and Landscape

STALKS

Directions emerging
from the ground

VOLUMES

Three horizontal
pieces

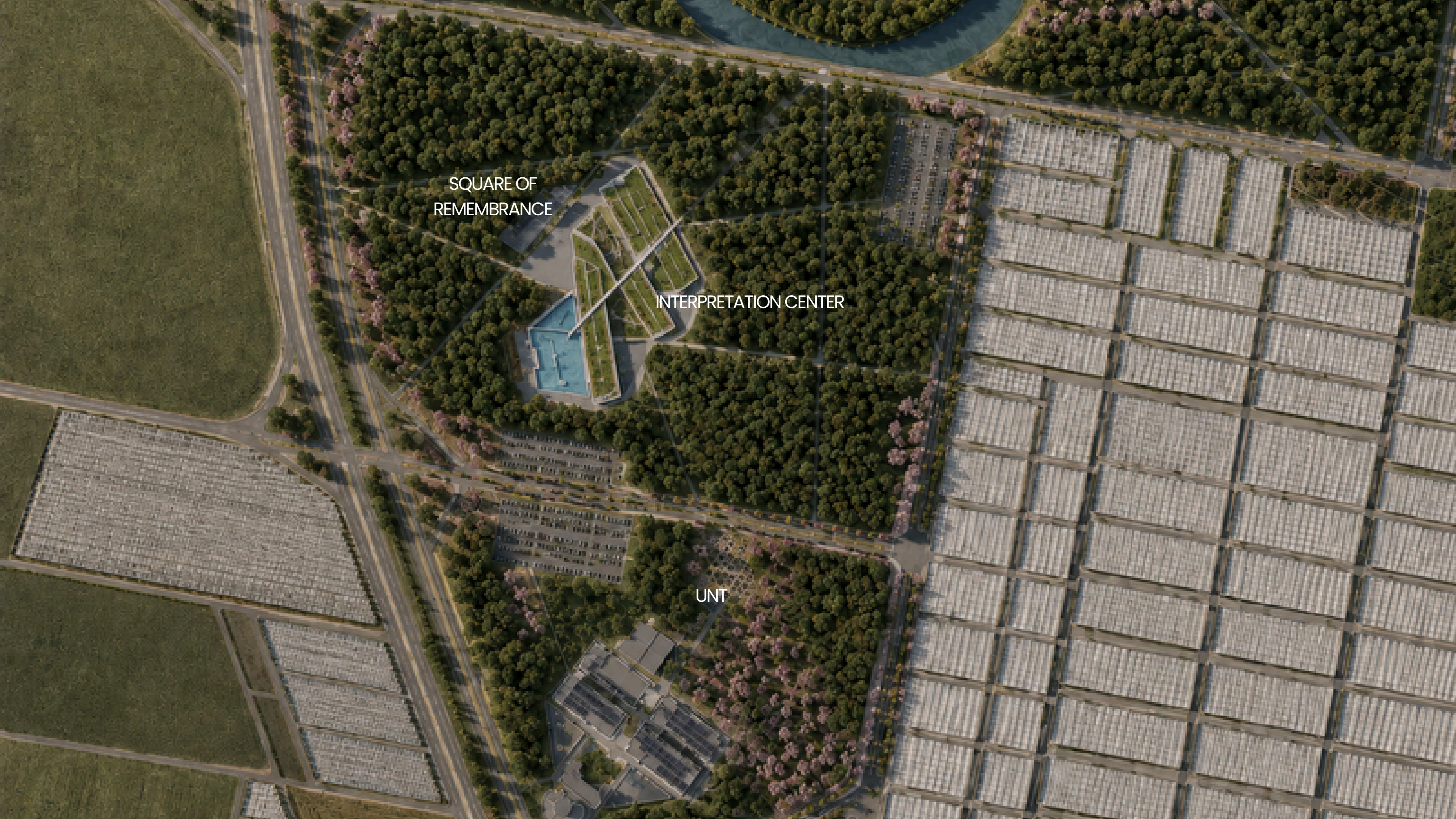
RECORRIDO

Linear circulation and
elevated walkway

MEETING

Memory, Community,
and a New Landscape

The proposal stems from a symbolic gesture: sugarcane stalks arranged across a landscape steeped in memory. Their outlines are transformed into three elongated volumes that organize the program and are embedded in the landscape as traces of a collective history. The Interpretation Center is conceived as a journey: an interior circulation route and an elevated walkway connect the buildings, creating new ways to traverse, view, and understand the site. In this way, the architecture transforms a land marked by the past into an active space of memory, landscape, and community.

An aerial architectural rendering of a campus. The scene is dominated by a large, dense forest of green trees. In the center, there is a cluster of buildings, including a prominent blue-roofed structure and several green-roofed buildings. To the right, a large, rectangular building with a grey, grid-like facade is visible. In the foreground, there are parking lots with several cars and a road. The overall atmosphere is serene and modern.

SQUARE OF
REMEMBRANCE

INTERPRETATION CENTER

UNT

FUNCTIONAL ZONING



BUILDING 1

- AUDIOVISUAL ROOM
- ADMINISTRATION
- ART GALLERY
- EXHIBITION HALL
- SERVICE

BUILDING 2

- COMMERCIAL SPACES
- LIBRARY
- AULICO COMPLEX
- MEETING ROOMS
- CONFERENCE ROOM
- MAIN CIRCULATION
- INTERNAL CIRCULATION

BUILDING 3

- CONCERT HALL

MATERIALITY

The materiality of the complex is defined by a main reinforced concrete structure, which provides durability, stability, and a sober presence for the three volumes. The metal frames with DVH glass ensure thermal efficiency, acoustic control, and a direct visual connection to the landscape.

As a complement, vertical metal sunshades are incorporated to provide solar protection and act as light filters. These elements build the initial concept of “stems,” creating an architectural language consistent with the project’s guiding vision.

On the buildings, accessible green roofs serve as natural extensions of the terrain, improve thermal comfort, and contribute to rainwater management.

DVH GLASS + ALUMINUM



METAL WALKWAY



EXPOSED CONCRETE



GREEN ROOF



**IMAGES OF THE
ARCHITECTURAL MODEL**



