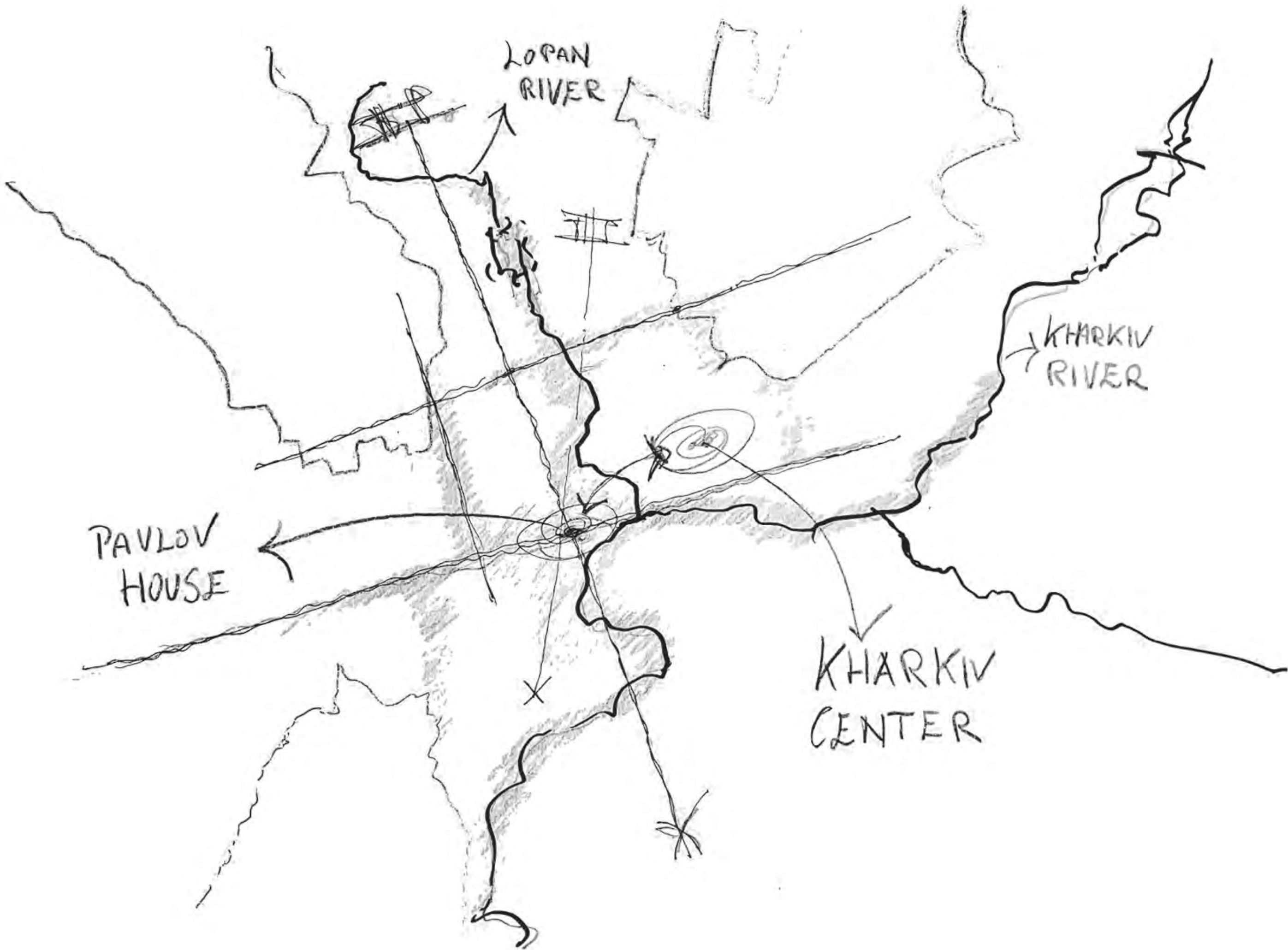


A NEW URBAN PLAN FOR KHARKIV

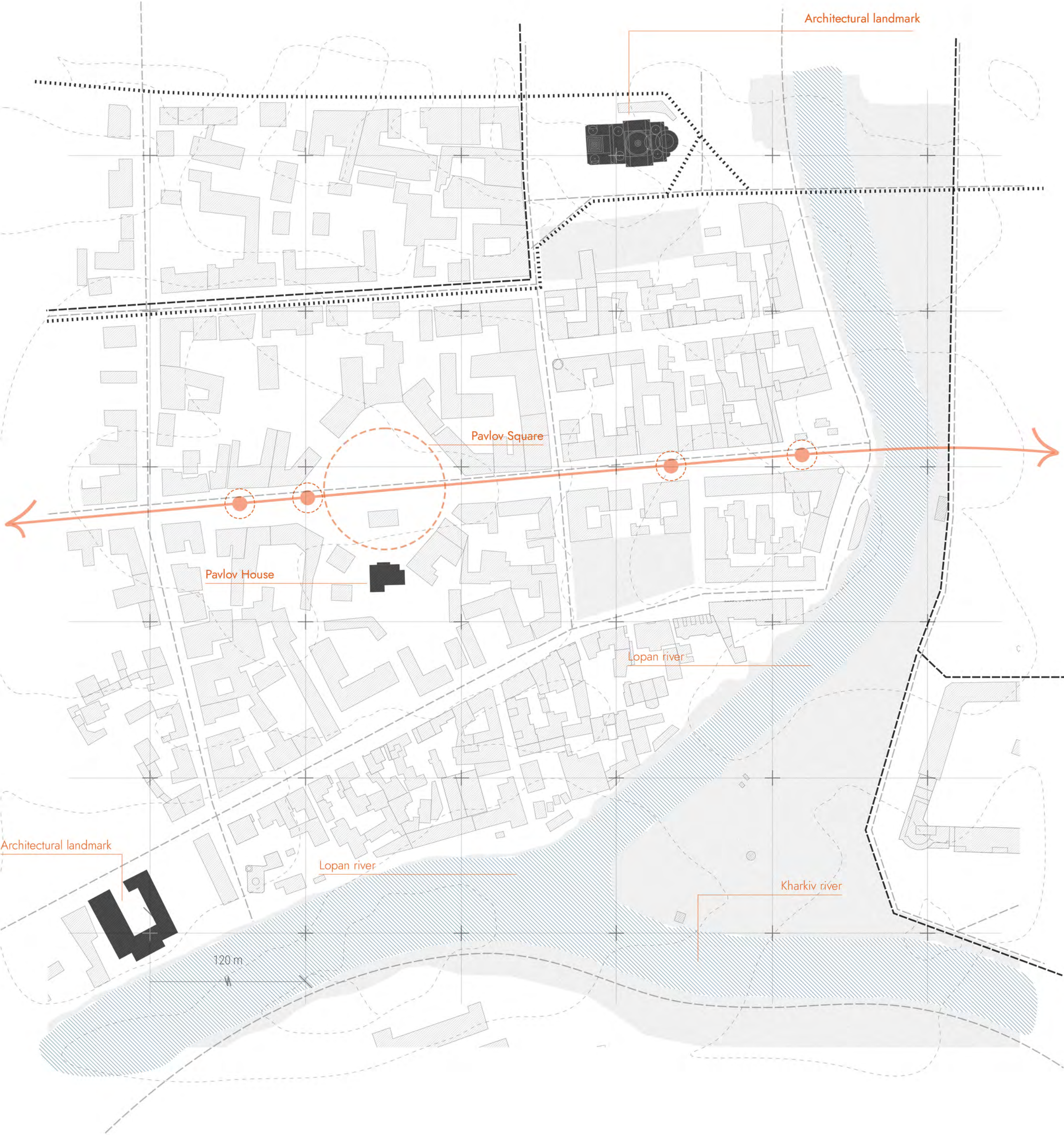
First sketch



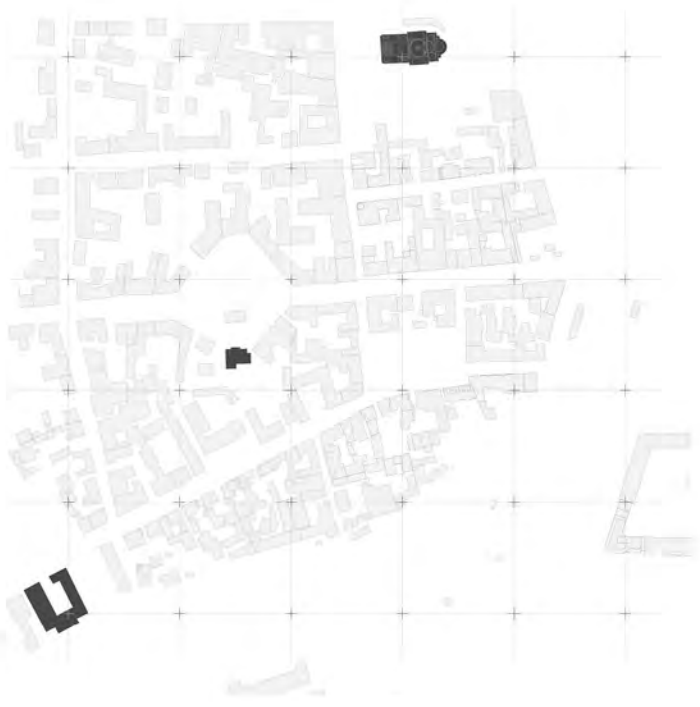
**KHARKIV REBORN.
PAVLOV HOUSE CONSERVATION AS A DRIVER OF URBAN RECOVERY.**

URBAN ANALYSIS

Site analysis synthesis



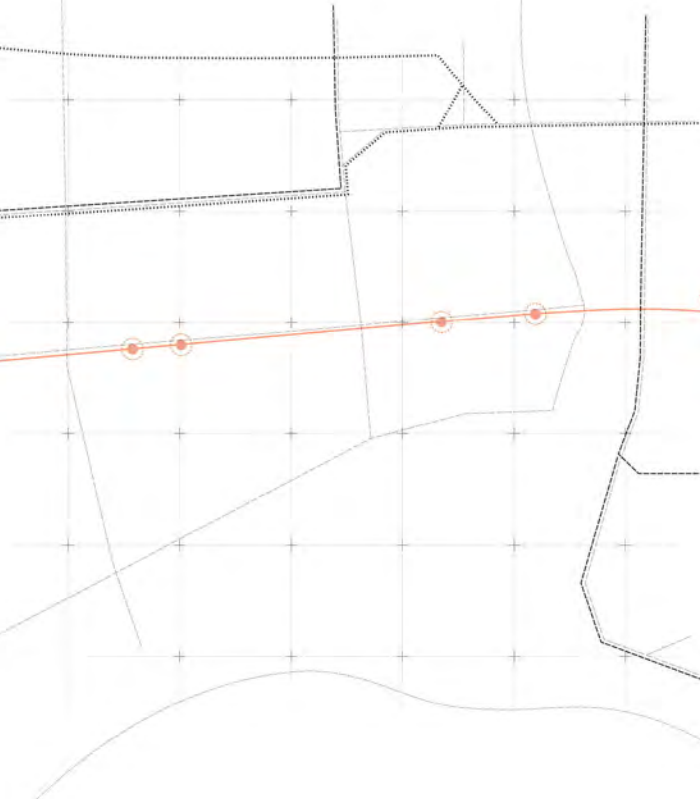
Solid and void analysis



Ecological system analysis



Circulation analysis

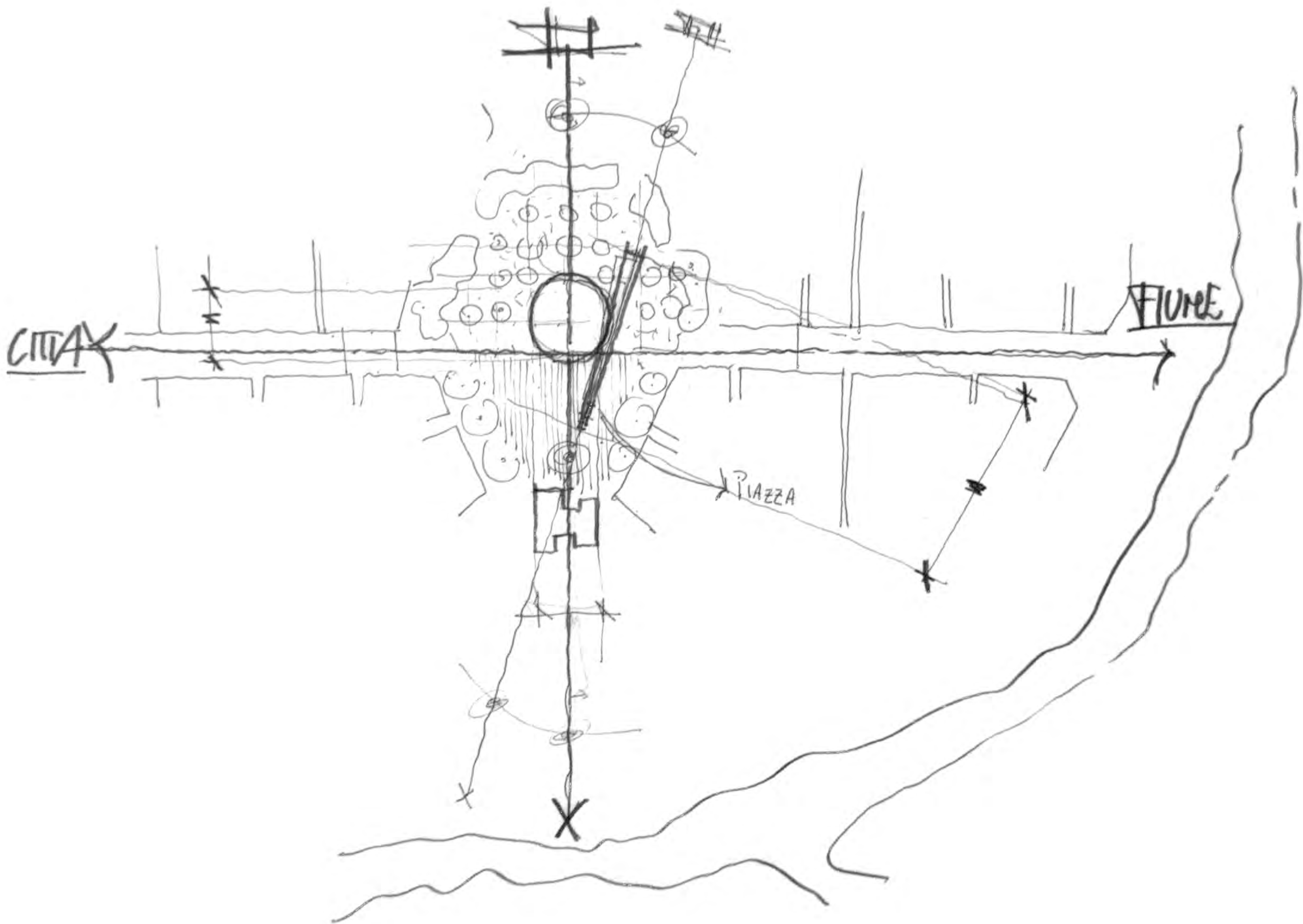


Legend

	River		Ecological system		Tram line		Tram stop		Bus line		Trolleybus line
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MASTERPLAN

The idea through the sketch



MASTERPLAN

Urban project



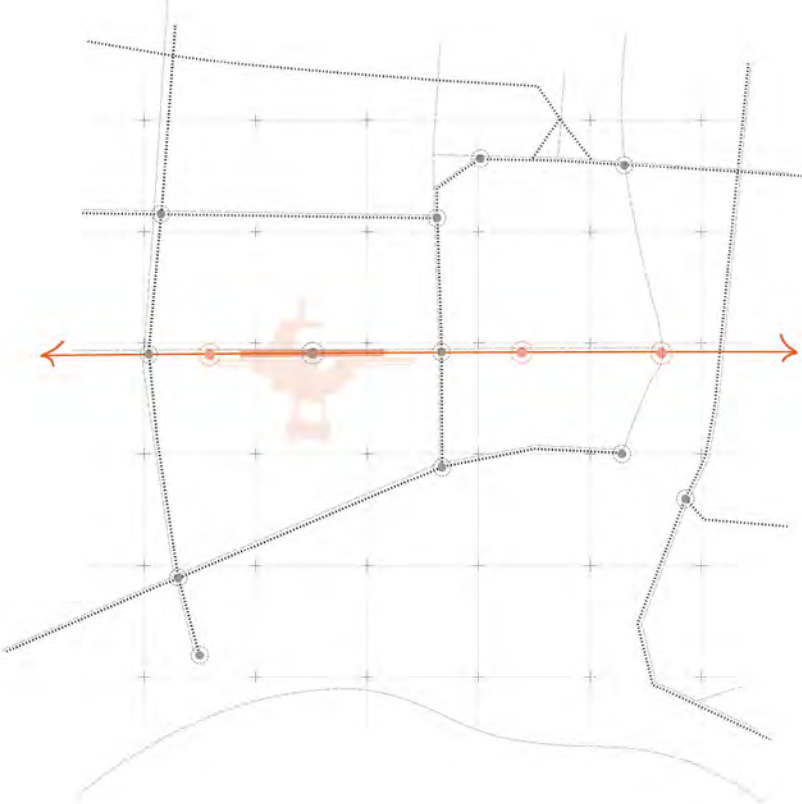
Solid and void project



Ecological system project



Circulation project

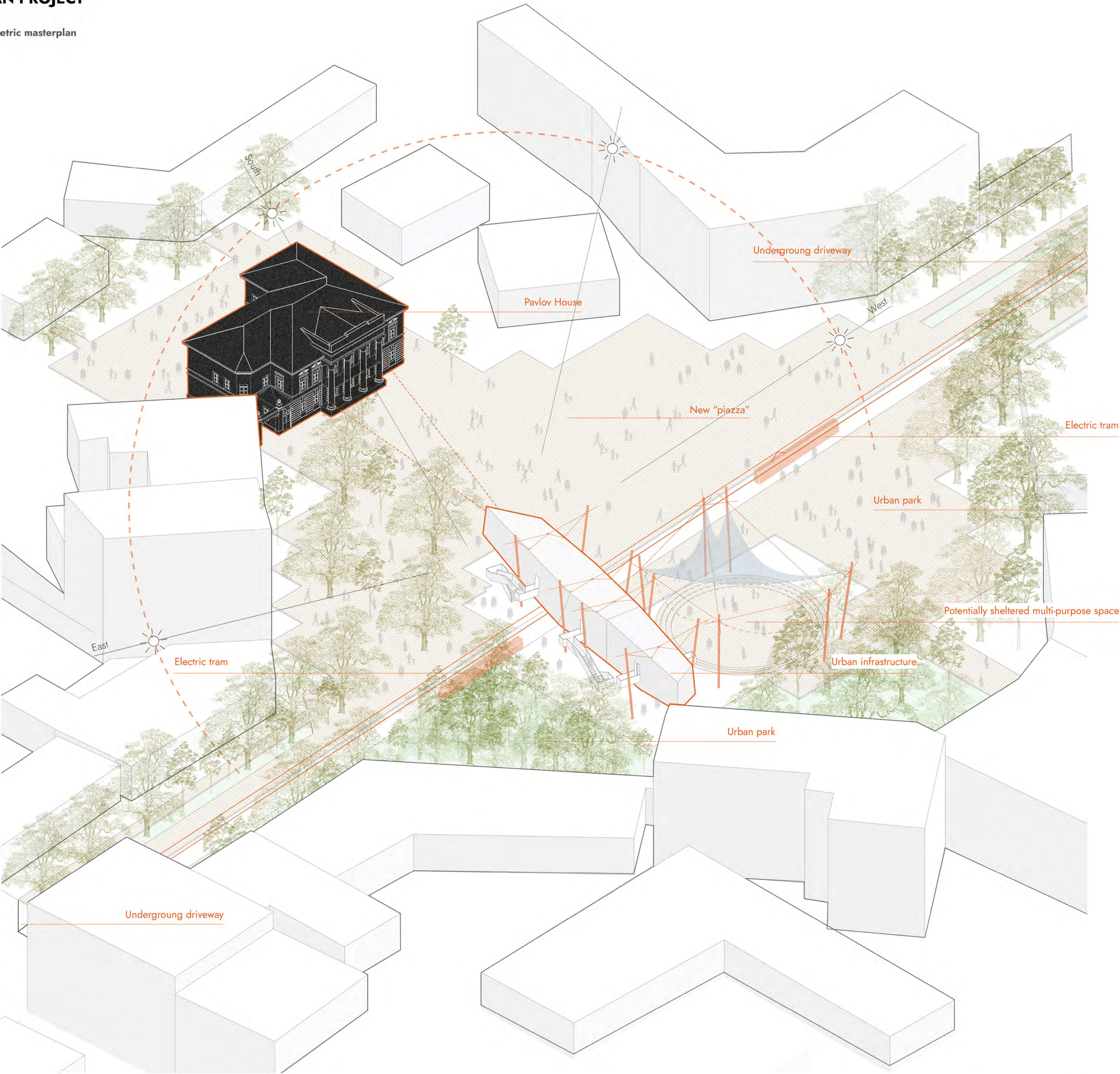


Legend

- River
- Ecological system
- Electric Tram line
- Tram stop
- Trolleybus line
- Underground driveway

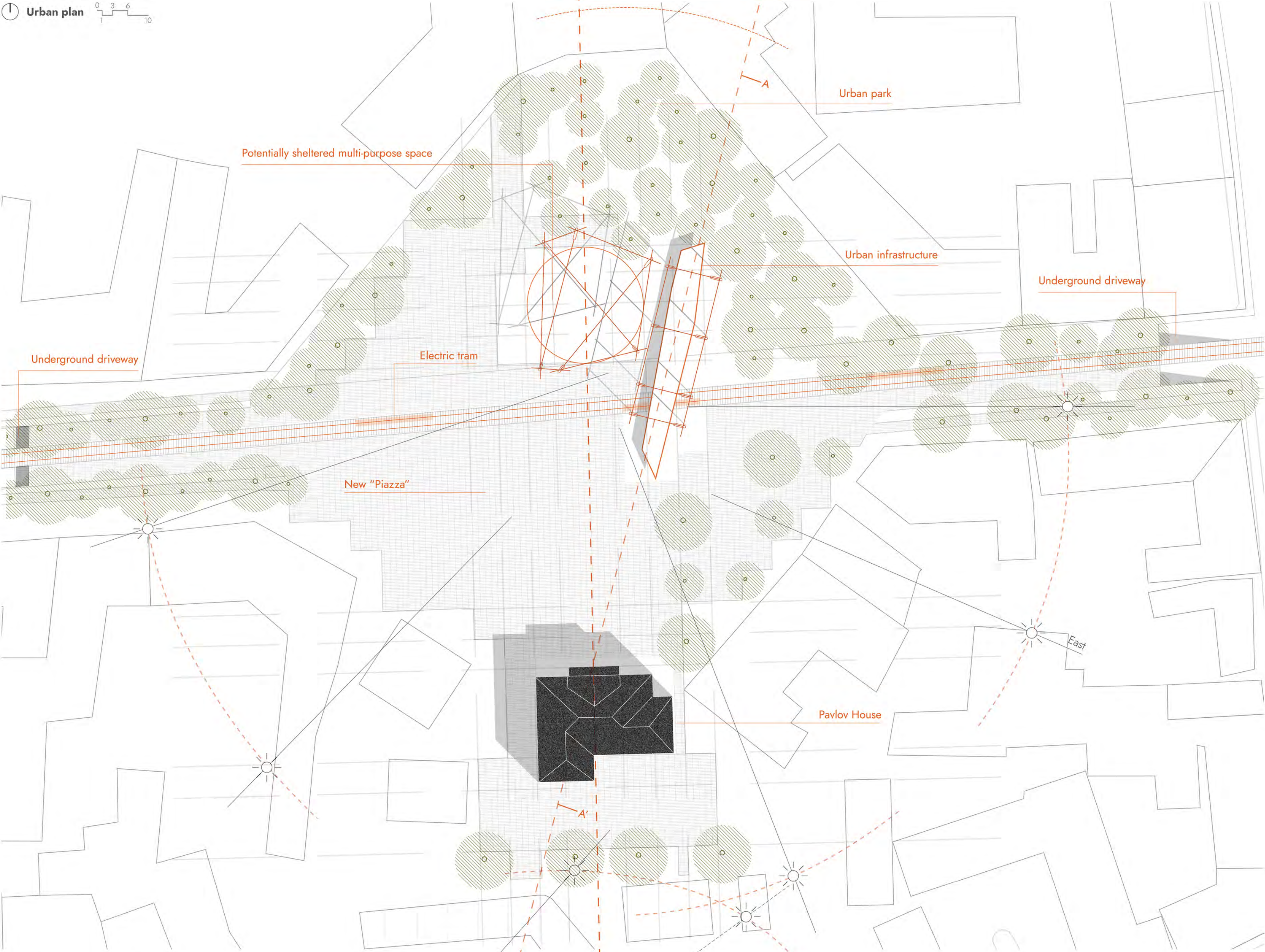
URBAN PROJECT

Axometric masterplan

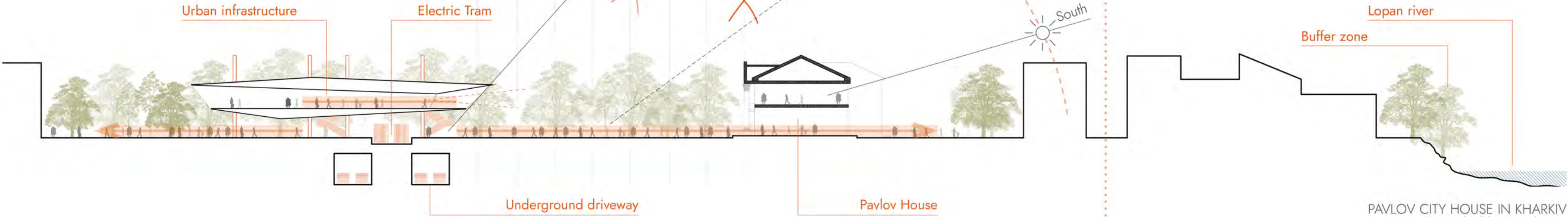


URBAN PROJECT

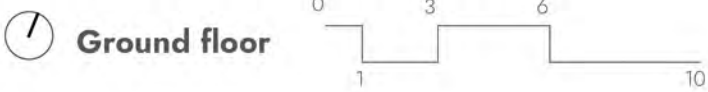
Urban plan 0 3 6 10



Urban Section A-A' 0 3 6 10

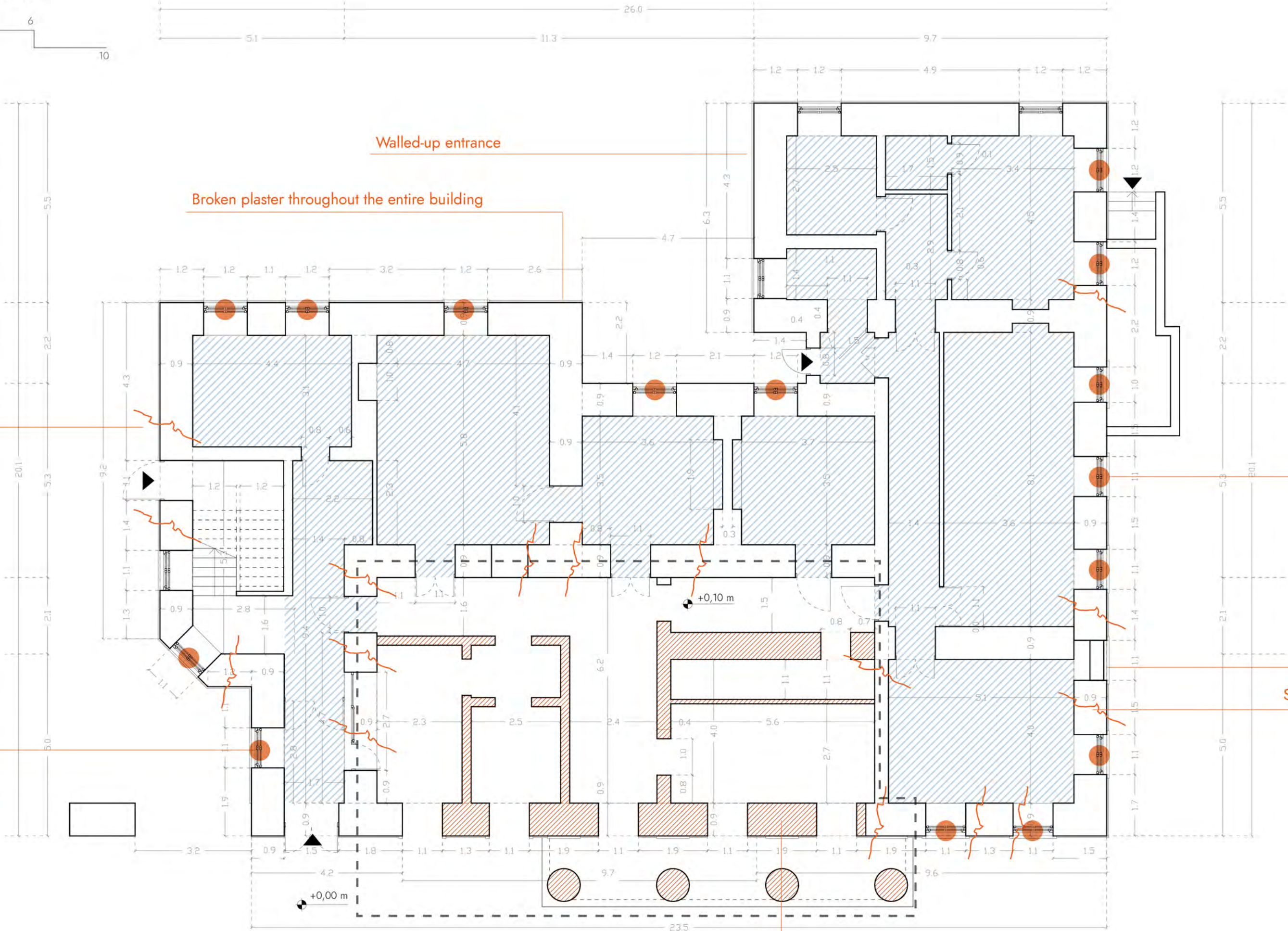


EXISTING CONDITIONS



Legend

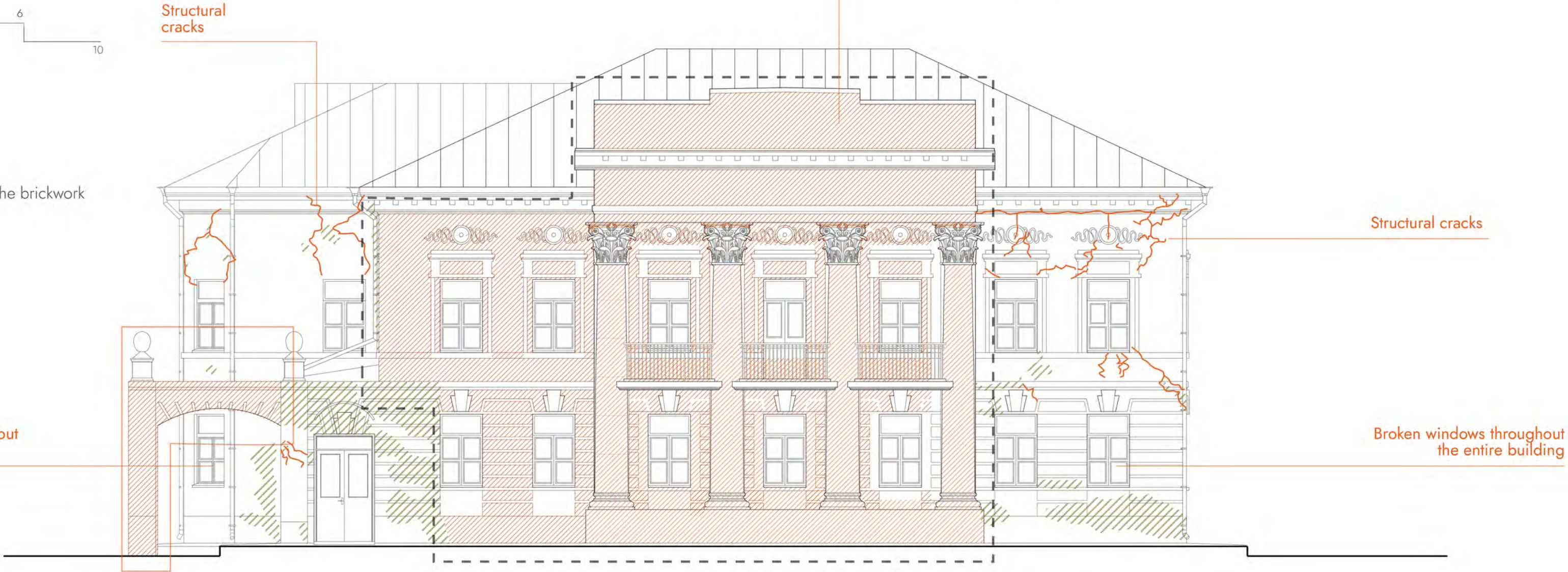
- Ceiling or slab damage
- Complete destruction
- Complete destroyed part
- Cracks
- Broken windows



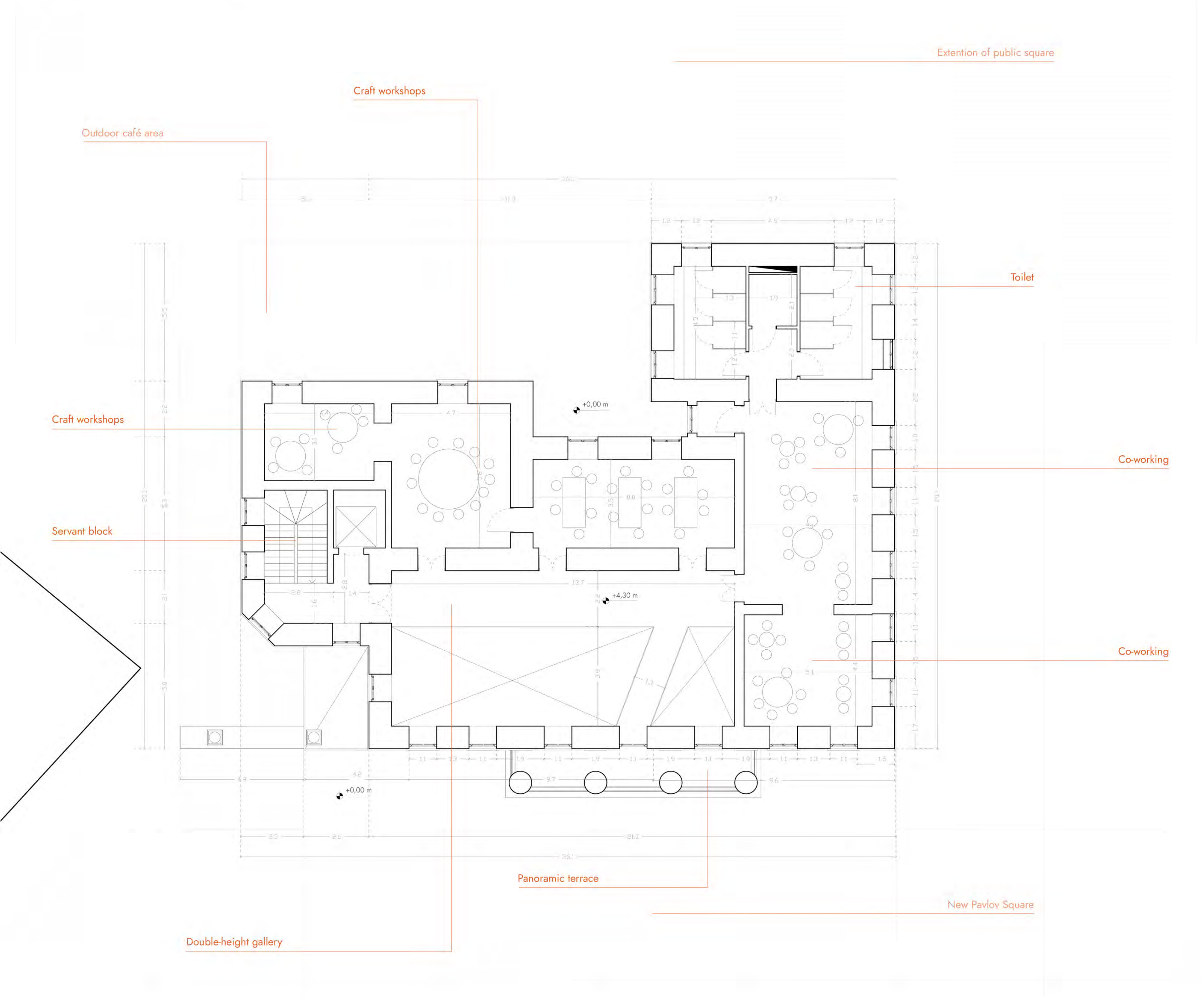
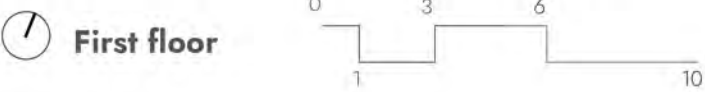
Main elevation

Legend

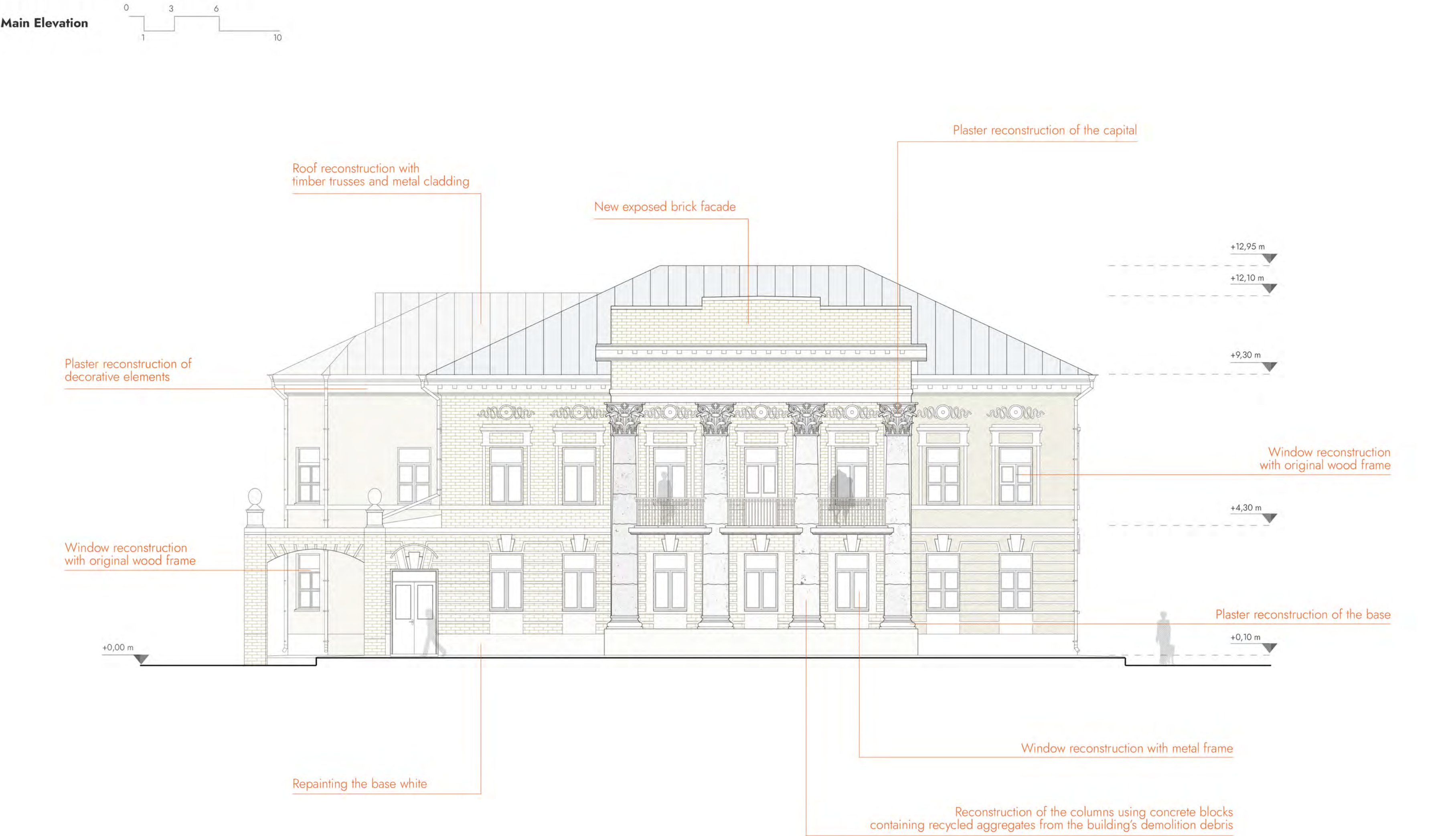
- Complete destruction
- Complete destroyed part
- Spalling of plaster down to the brickwork
- Cracks
- Arch system completely destroyed



PROPOSED CONDITIONS



PROPOSED CONDITIONS



Consolidation works

Conservative restoration

The design approach embraces conservative restoration as the fundamental tool to safeguard the historical identity of the complex. Following Cesare Brandi's teachings, the building is not conceived as a stage set to be returned to a hypothetical original state, but as a living organism marked by the passage of time. The project intervenes in the 'present time', recognizing the value of the 'historical time' sedimented within the material. The objective is to halt decay and consolidate the existing fabric—such as through delicate masonry stitching interventions—while introducing new functions through a contemporary architectural vocabulary, thus preserving the documentary and spatial truth of the architecture.

Consolidation of the masonry through lime grout injections

The injections of the lime-based binder (composed of materials compliant with the CAM regulations, Ministerial Decree 24.10.25) will be carried out from bottom to top using controlled-pressure pumps

Structural strengthening using a reinforced masonry ring beam

The lamellar ring beam is an innovative structural strengthening system for masonry structures. It involves a layering of brick elements with tensile-resistant reinforcing materials (galvanized steel) embedded in mortar beds. This approach combines the compressive strength of the masonry with the tensile strength of the composites

Masonry stitching

In strict compliance with the principles of conservative restoration and minimum intervention, the operation is confined solely to the areas where the wall retains its potential structural qualities and has not been completely destroyed by the explosion

Existing masonry

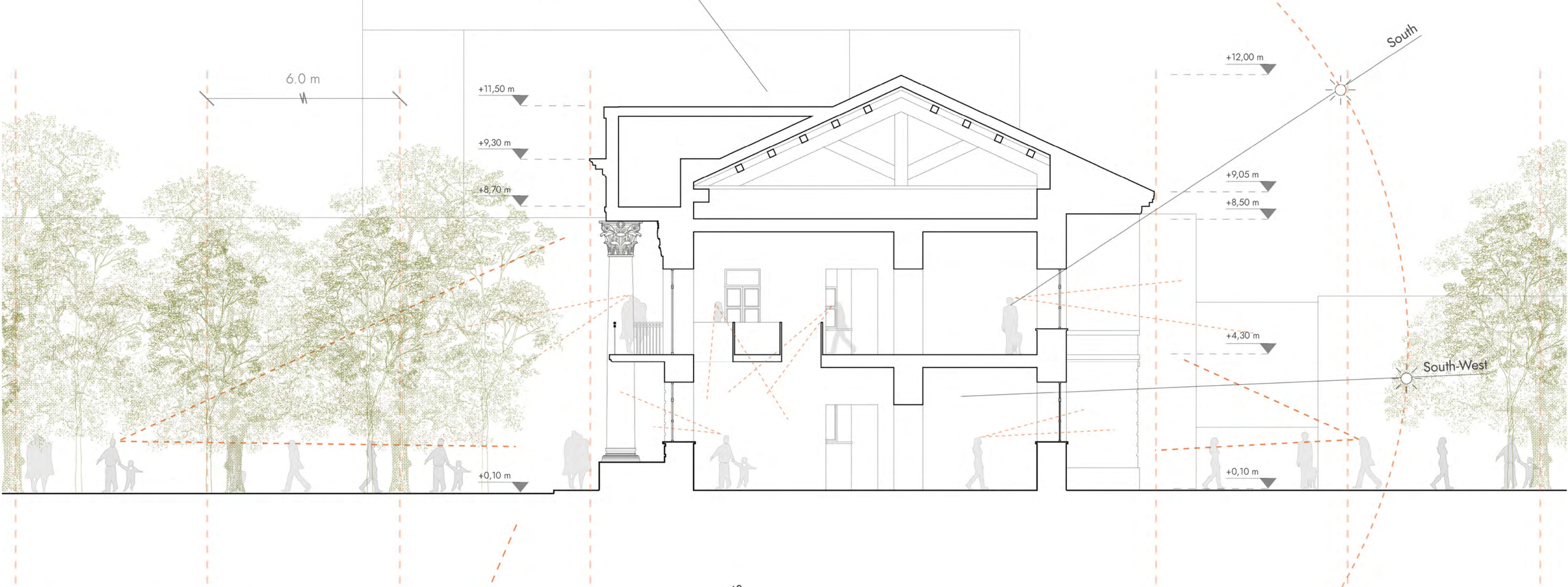
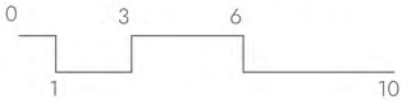
Excavation area

Stitching

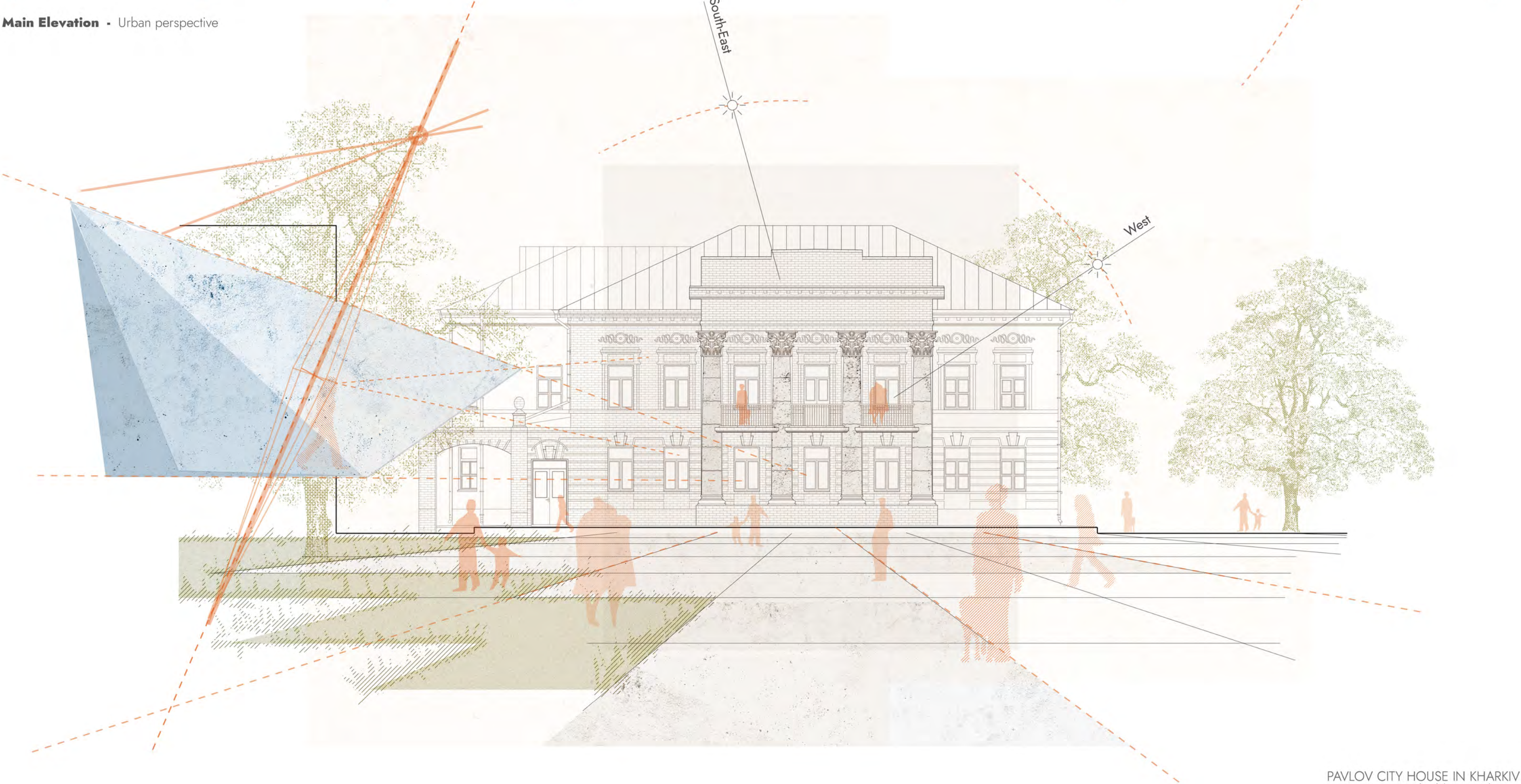
Cracks

URBAN PROJECT - "LA PIAZZA"

Trasversal Section



Main Elevation - Urban perspective

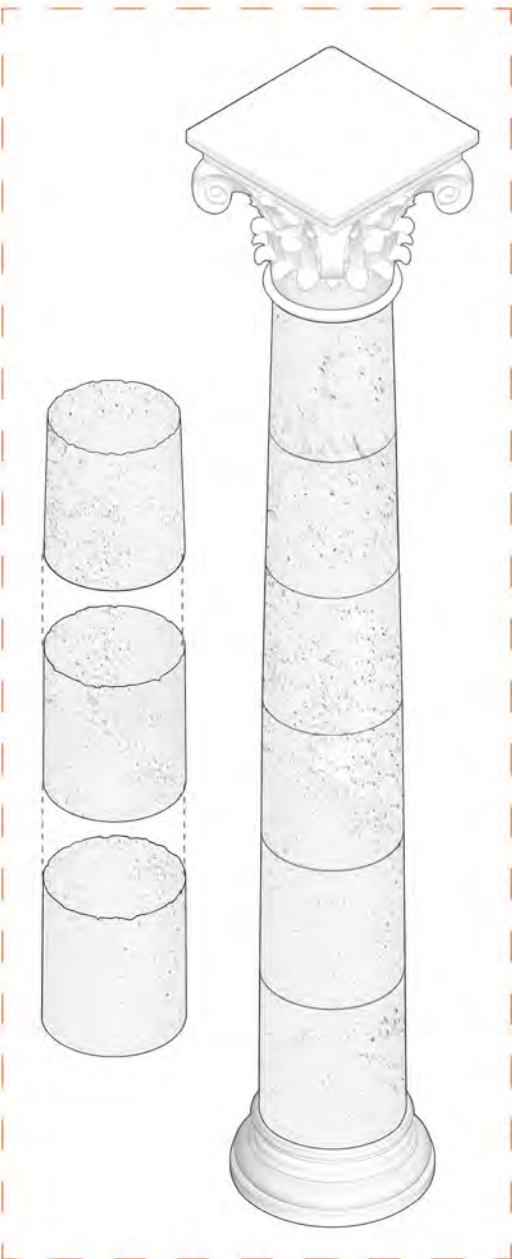


DETAILED DESIGN

Axonometric cutaway



Reconstruction of the column capital in white stucco



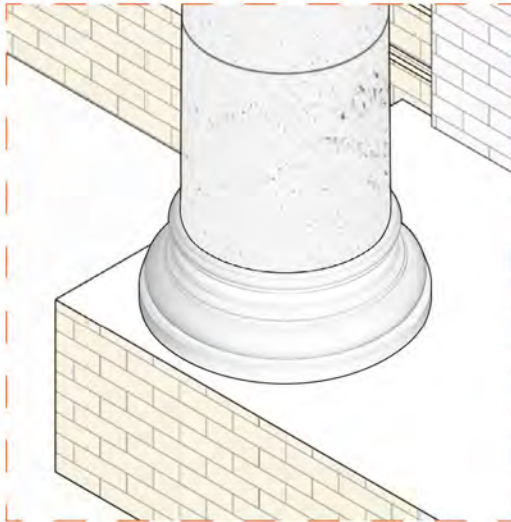
Shaft of each column made of six separate drums stacked without mortar

Limewashed brick masonry

The original masonry, completely destroyed by the missile impact, is reconstructed using limewashed brickwork. This technical choice evokes the materiality of the original wall, while simultaneously ensuring the full recognizability and contemporary nature of the intervention.

Limewashed brick base

Reconstruction of the column base in white stucco



Metal roofing panels

The roof finish features metal panels from local foundries and workshops, bolted on site. Utilizing local suppliers and labor significantly reduces overall costs. Additionally, proximity to the site eliminates transport downtime, accelerating installation and lowering the environmental footprint.

Primary and secondary wooden floor joists

Timber and steel roof truss

Timber principal rafters, king post, and struts

Steel tie beam and brackets

Natural lime plaster

Timber floor system

Double height hall

Ground floor slab with a ventilated crawl space using plastic void formers

Matter and Genius Loci: Some of materials used for conservative restoration

The restoration of the Pavlov House transforms the scars of conflict into an opportunity for sustainable regeneration. By adopting an Urban Mining approach, the project relies entirely on local Ukrainian resources :

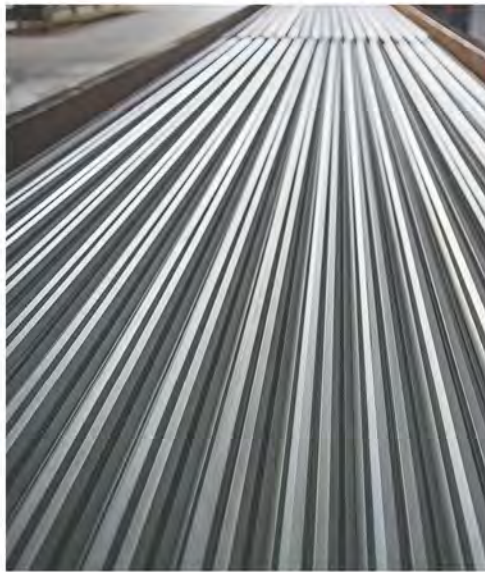
- 1 Rubble as a Circular Resource** Instead of discarding the war-torn debris, destroyed stone and brick fragments are systematically crushed and repurposed as recycled aggregates. This material is integrated into new screeds, sub-bases, and specifically formulated conglomerates used to plastically reconstruct the missing drums of the classicist pronaos columns, literally healing the architecture with its own matter.
- 2 Local metal for roofing** The roof finish features metal panels from local foundries and workshops, bolted on site. Utilizing local suppliers and labor significantly reduces overall costs. Additionally, proximity to the site eliminates transport downtime, accelerating installation and lowering the environmental footprint.
- 3 Local Timber for the Roofing** The original pitched roof configuration is meticulously restored using a traditional wooden truss system. This structural intervention sustainably harnesses Ukraine's vast forest resources, promoting short supply chains and bringing back the original architectural volume.
- 4 Hemp-Based Thermal Insulation** Honoring Ukraine's historical identity as an agricultural giant, the building's thermo-acoustic efficiency is achieved through hemp bio-composites (hempcrete).
- 5 Clay and Natural Lime Plasters** To preserve the structural health and breathability of the 19th-century masonry, modern Portland cement is strictly avoided due to its rigidity and impermeability. The project utilizes natural lime and local sands, enriched with the abundant raw clay from the Kharkiv territory, to create highly compatible, moisture-regulating exterior plasters.

1. Rubble as a circular resource



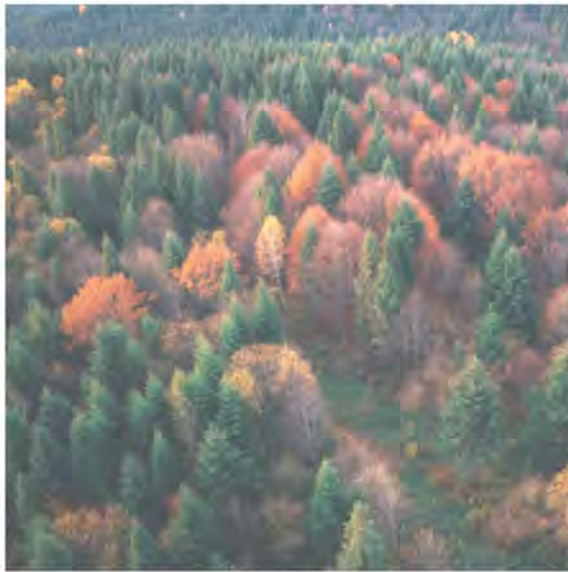
Photo of Pavlov Building rubble

2. Local metal for roofing



Relying on local resources and workshops sustainably cuts emissions and costs. More importantly, it boosts the local economy, driving both architectural and social rebirth

3. Local timber for the roofing



The Kharkiv region in eastern Ukraine is rich in mixed forests. The most common and used local wood species are oak and other broadleaf trees such as beech and birch-shades

4. Hemp based thermal insulation



Industrial hemp fields in the Kharkiv region. The widespread local cultivation of this crop offers a short, carbon-negative supply chain for the building's insulation

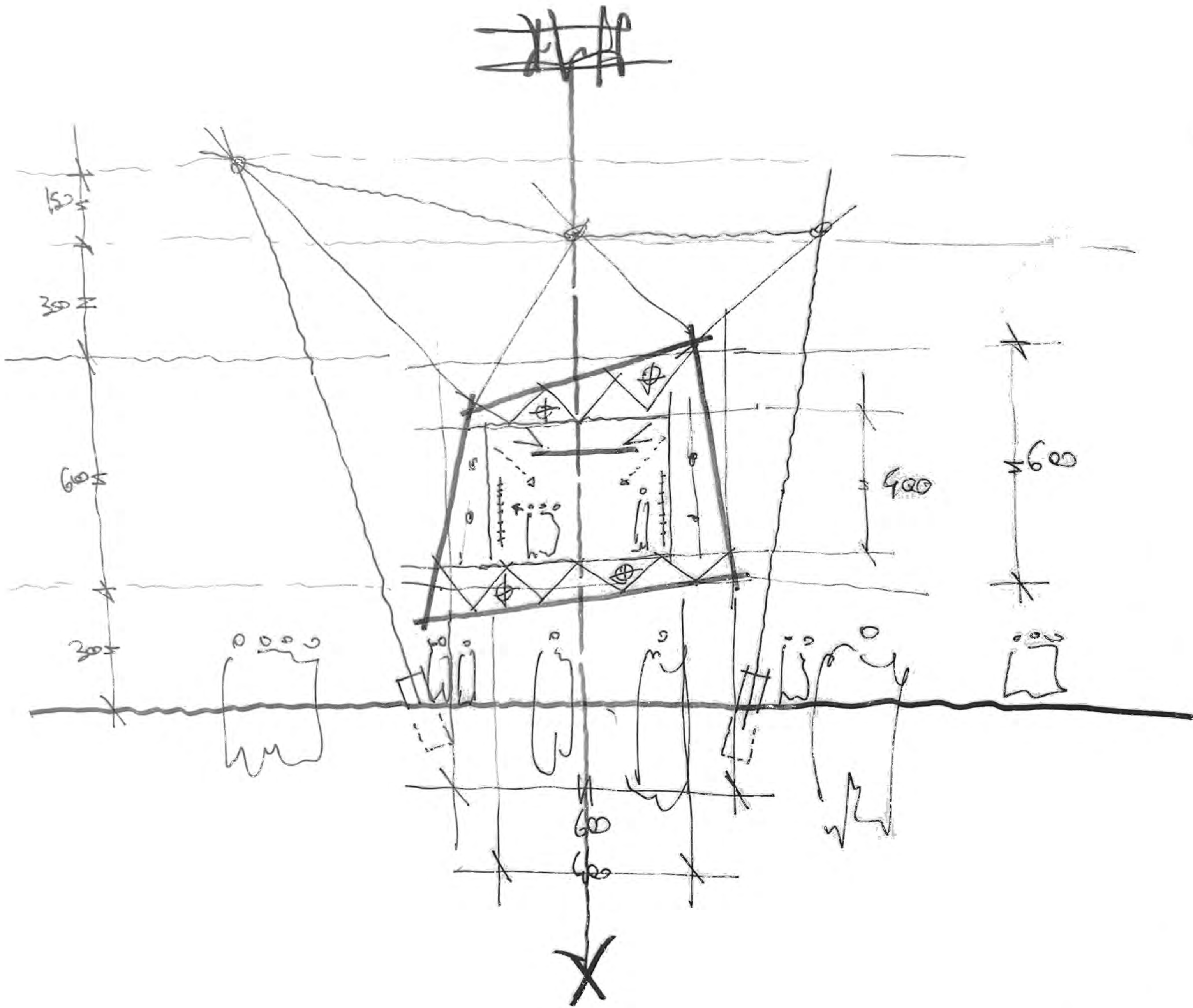
5. Clay and natural lime plaster



Natural clays mined in the Kharkiv area are known for their exceptional purity and warm shades

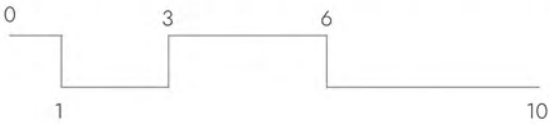
"SPACE AND TIME" - THE DESIGN FOR THE CITY

The idea through the sketch

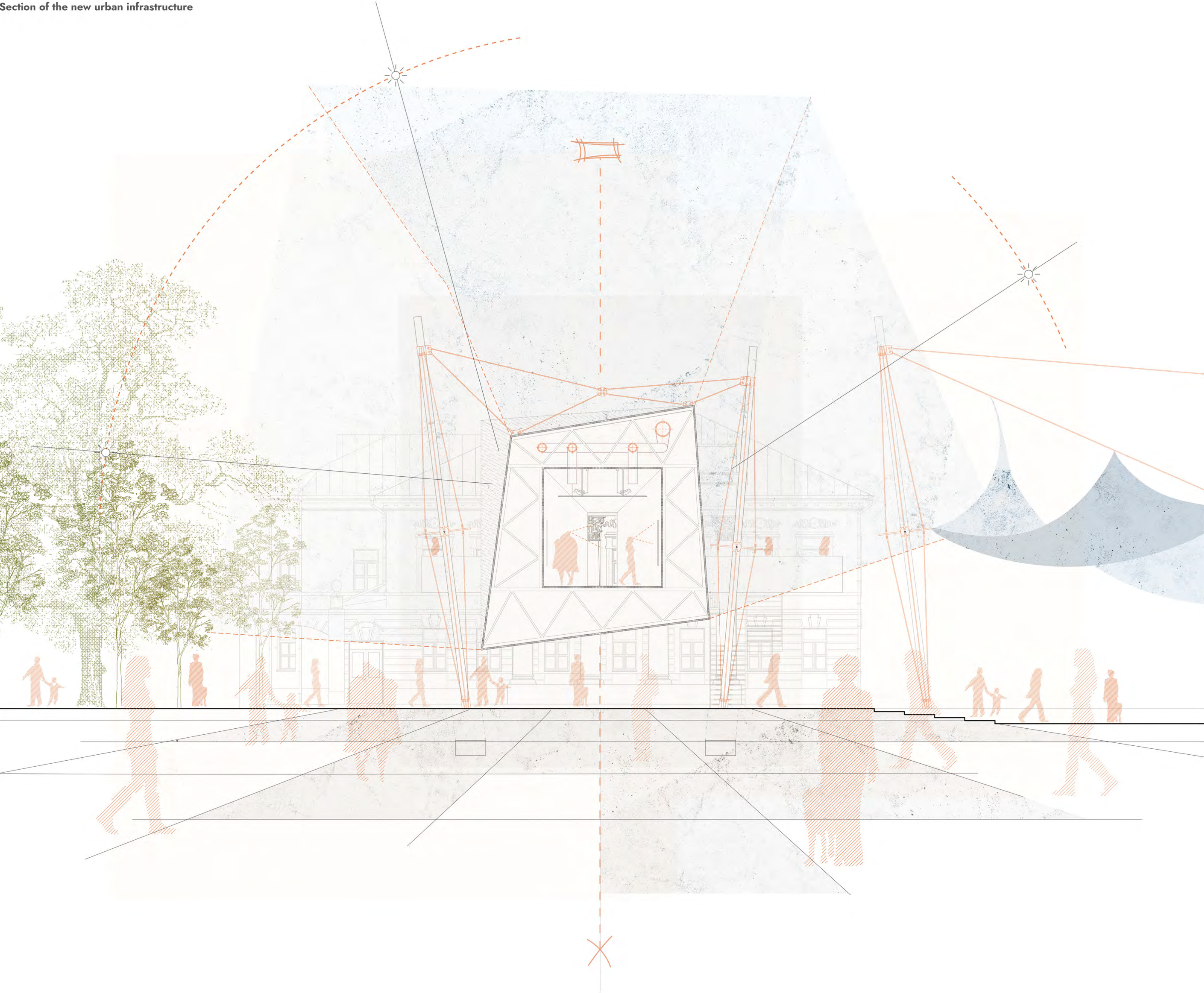


“SPACE AND TIME” - THE DESIGN FOR THE CITY

From idea to design



Section of the new urban infrastructure



ATMOSPHERES AND PERCEPTIONS - THE HUMAN SCALE

A new "piazza" for everyone



Across time

The project is conceived as a **spatial and perceptual journey traversing the historical eras of Ukraine**, embodied by the architectural stratifications of the Pavlov House in Kharkiv. From its glorious classicist genesis, the narrative path guides the observer to the tragedy of the present, integrating the memory of the recent, brutal destruction inflicted by the war: a deep wound caused by a moment of **blind human madness**. The climax of this architectural promenade takes place in front of what, at first glance, appears to be a framed painting. Upon closer inspection, the artwork reveals itself as a **window**, a physical and temporal opening that points the gaze straight toward the newly restored pronaos of the building. This visual and conceptual device **closes the circle of history**: it emphasizes how the legacy of a violated past can be healed and mended. The framing of the reconstructed columns is not merely architecture, but the symbol of an immense effort of **solidarity and humanity**; a visual manifesto where unity of purpose and **collective resilience** triumph in post-war reconstruction, ultimately returning the Pavlov House to its future.

ATMOSPHERES AND PERCEPTIONS - THE HUMAN SCALE

A look for the future



The ethics of building

The restoration of the Pavlov Building goes far beyond mere architectural recovery: it becomes an opportunity to reveal the true, most authentic nature of the **human spirit**. This project reminds us that a shared sense of **purpose, solidarity**, and the **collective effort** to rebuild are not exceptions, but should represent our natural state of being. In this context, this window takes on a profound and symbolic significance. It serves to shine a spotlight on this extraordinary network of empathy, framing and elevating it just as one would a painting in a museum. Looking through this window means understanding a fundamental truth: the art of building spaces for people, joining forces to restore life and hope, is the exact, luminous opposite of the act of destruction

ATMOSPHERES AND PERCEPTIONS - THE HUMAN SCALE

The new Pavlov House



The ethics of restoration

The restoration project of the Pavlov House aims to restore **historical dignity** to the original building through a rigorous conservative approach. However, this respect for the pre-existing structure is not a simple return to the past, but rather the starting point for a **profoundly contemporary intervention**, designed to respond to the evolution of society and the new needs of people. Where the building has suffered total collapse, the reconstruction rejects faux-historical imitation. Instead, the destroyed portions are rebuilt using distinctive technical elements that allow the “**figure**” to be clearly separated from the “**background**,” clearly highlighting the new contemporary insertion. This architectural choice has a profound objective: it is not meant to be a mere exercise in style to showcase the project’s innovation, but rather intends to leave an honest trace of the catastrophic events that caused its destruction. The intent is not to monumentalize war, but to celebrate its exact opposite: **the immense effort** and **human solidarity** required to rebuild. It is an architecture that does not hide its wounds, but displays them as a reminder of how **collective unity** can restore to these places **the spatial dignity** that only the violence of conflict had tried to strip away

ATMOSPHERES AND PERCEPTIONS - THE HUMAN SCALE

Architectural model

