

A Critical Response_

Transformation of an industrial hangar into architecture school

Critical Response_

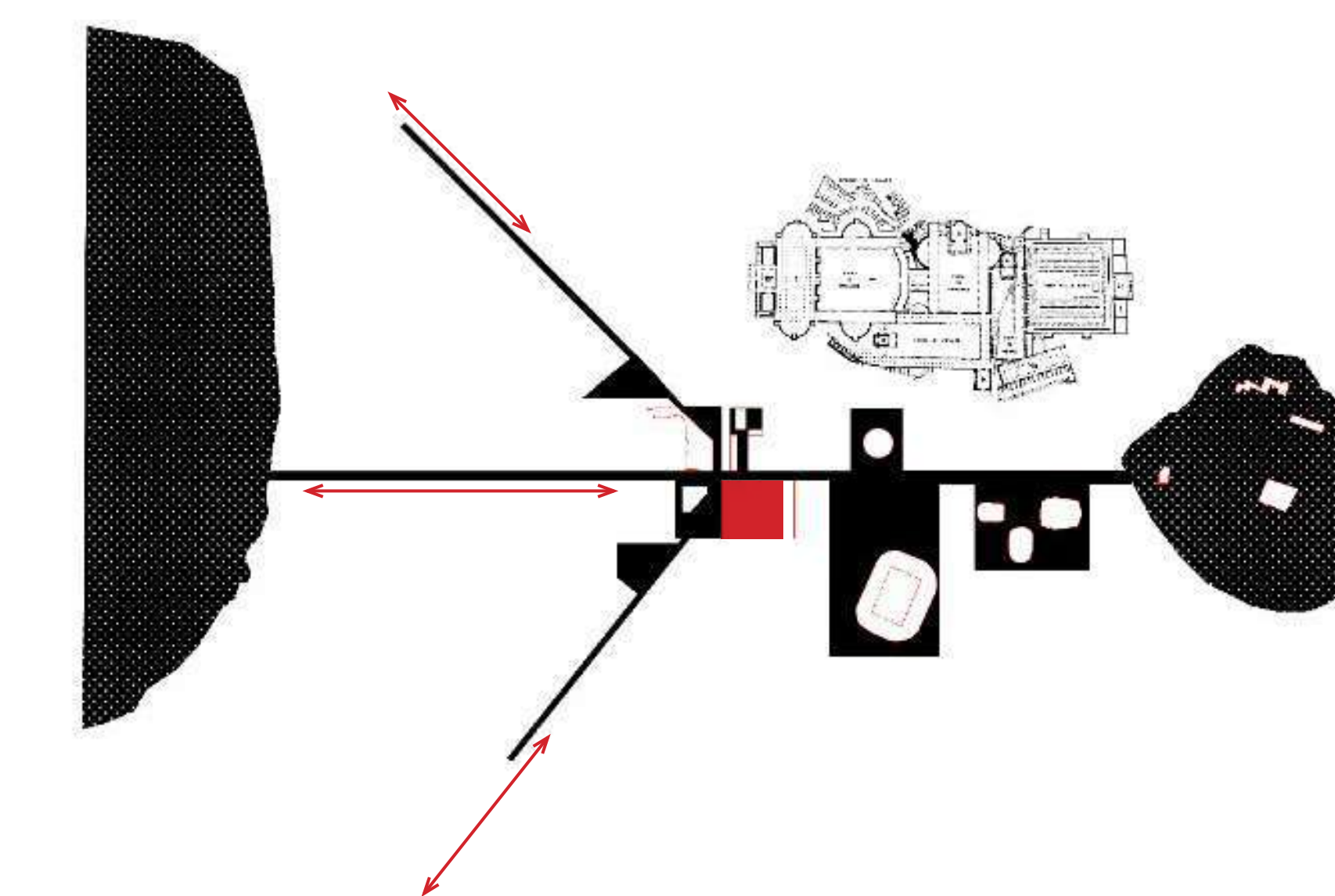
A critical response is a serious examination of a topic or literary work for its own sake, without reference to personal views, biases, values or beliefs.

Goals to Achieve_

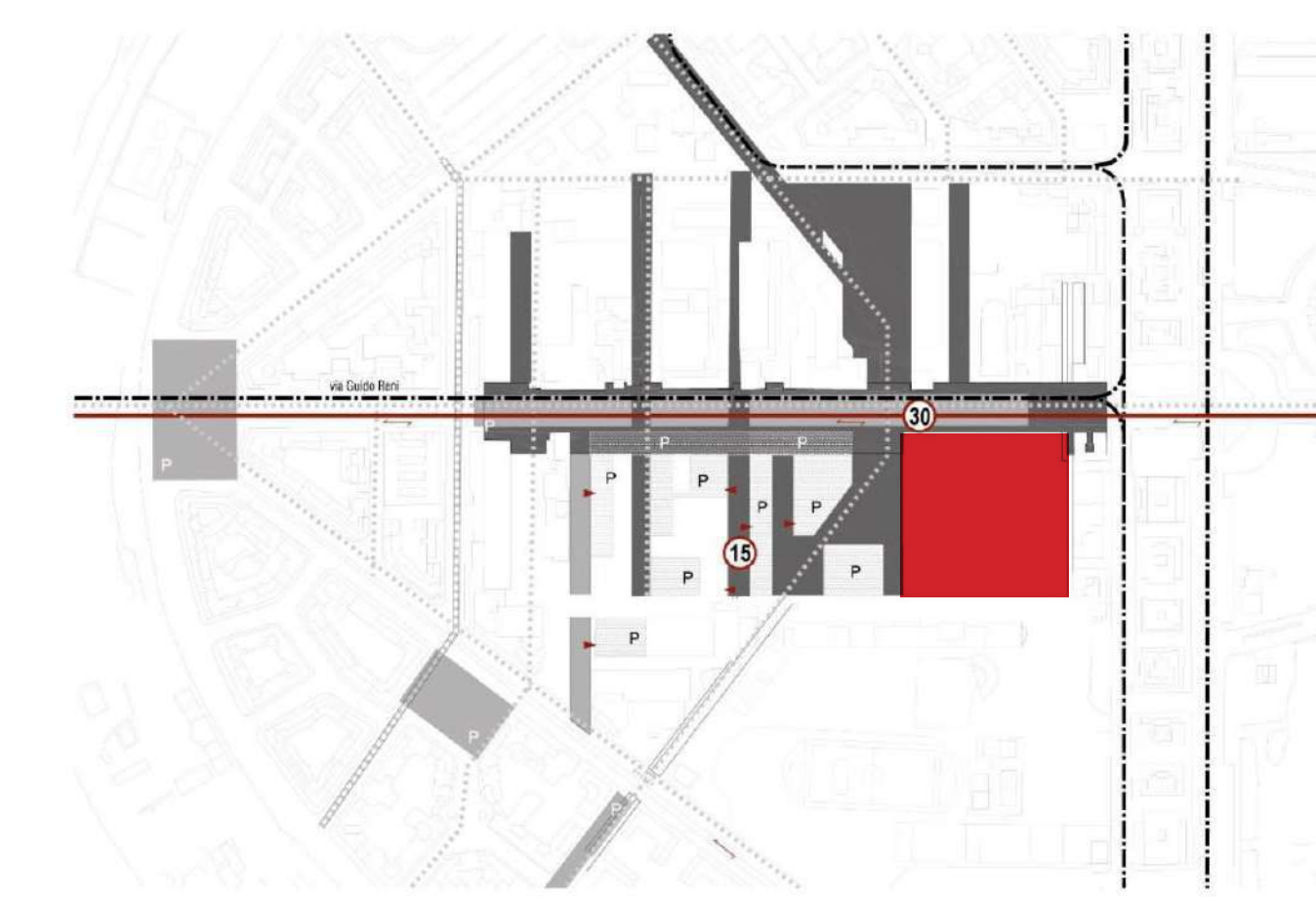
- Doing less and achieving more
- Integrate the building with surrounding public spaces
- More flexible spaces to ensure different uses
- Enhance the spatial quality of interior+ exterior spaces
- Improve the structural condition to last longer
- Improve climatic condition of interior spaces
- Collecting material from the dismantled buildings

How do i see my architecture school?

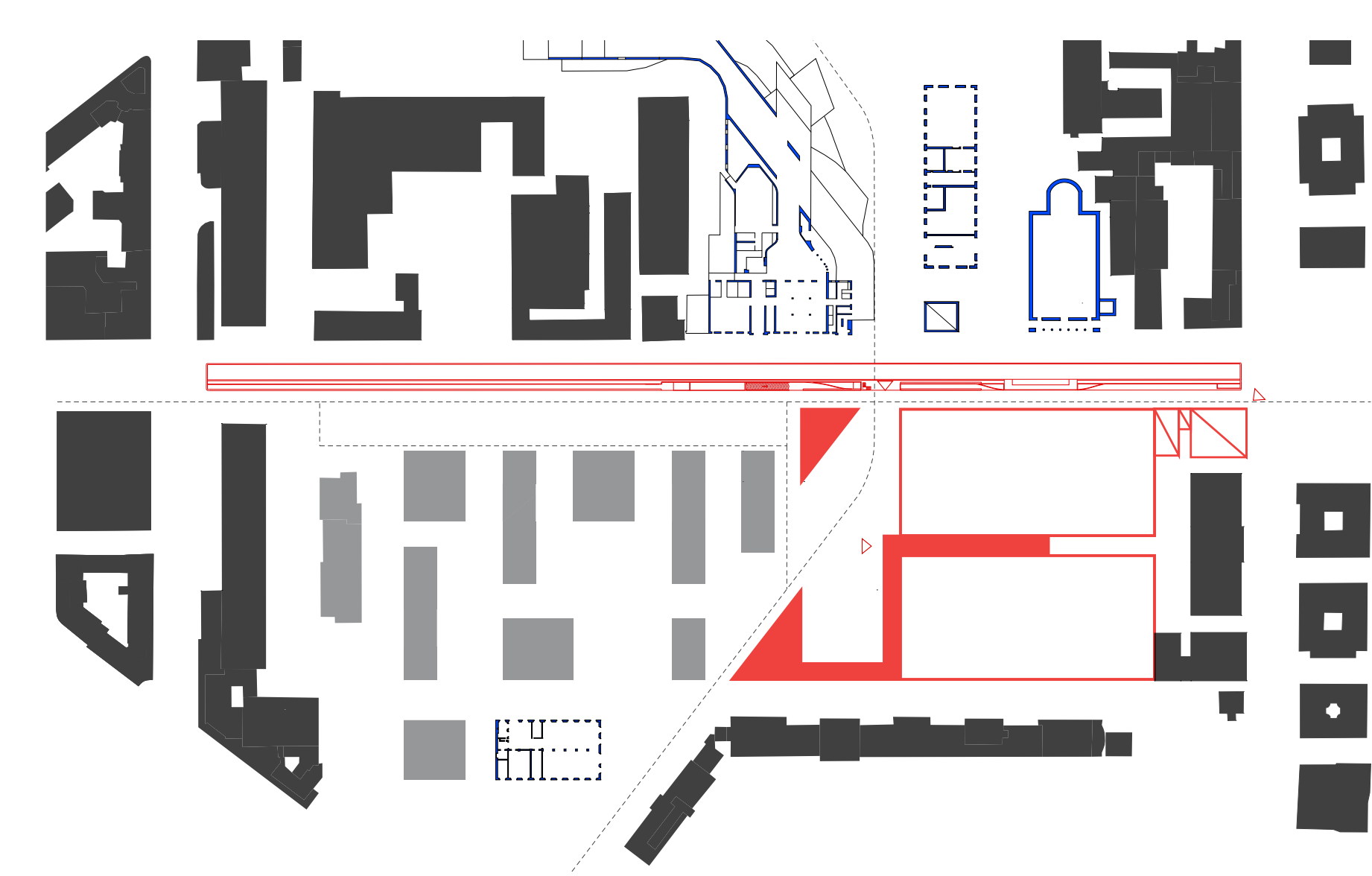
There should be a give-and-take between the building and the surrounding. The aim is to have an unadorned architecture which is deeply rooted in the urban landscape. The building should be constructed out of available material which can be found near the site or in the local market. The activity of the school should allow the students as well as the teachers to experiment with new and contemporary ways of architecture. The spatial organisation should be transparent and visible to all the students. All in all, the school should be inspiring and encouraging to the students and the community!



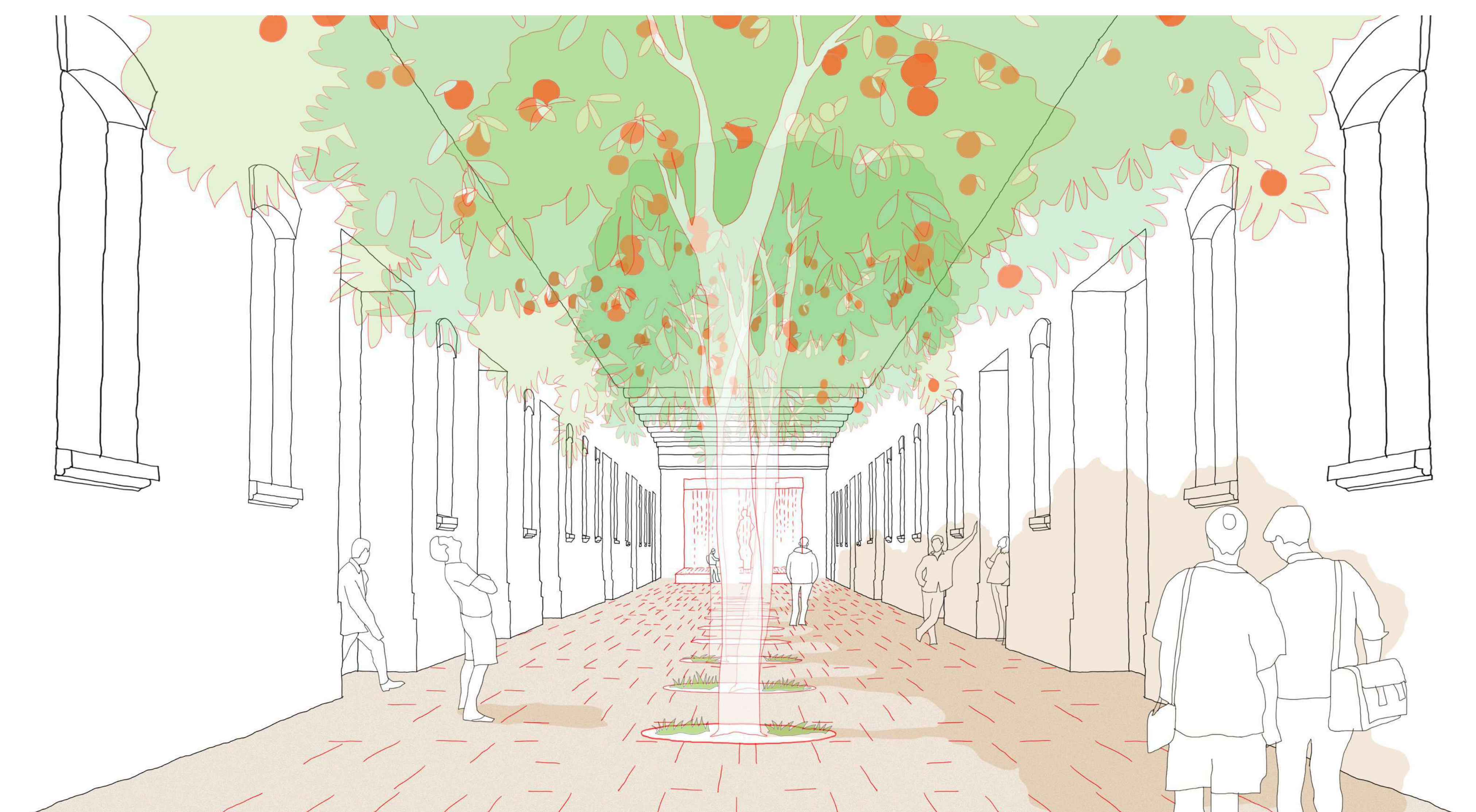
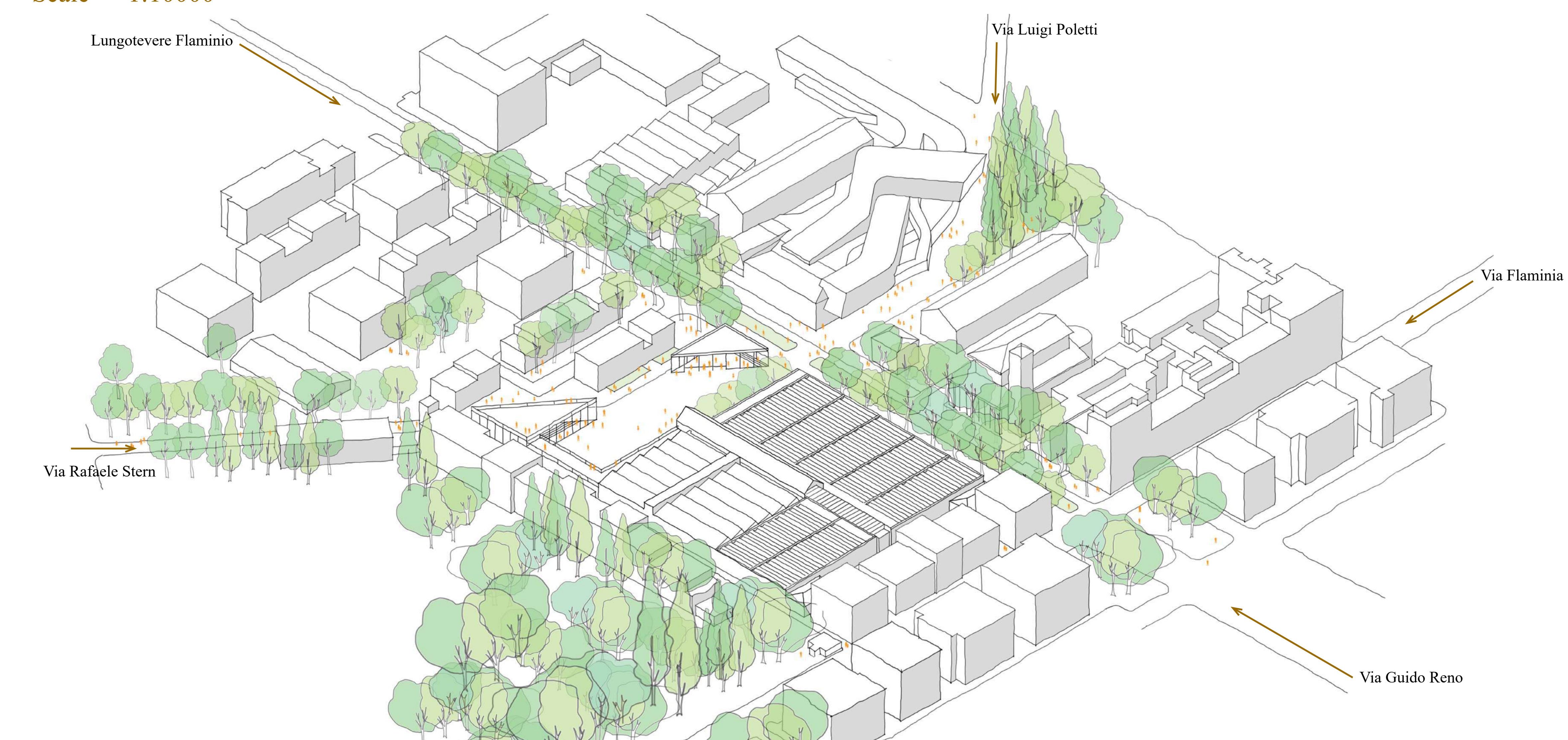
Circulation of the Masterplan and via Guido Reni

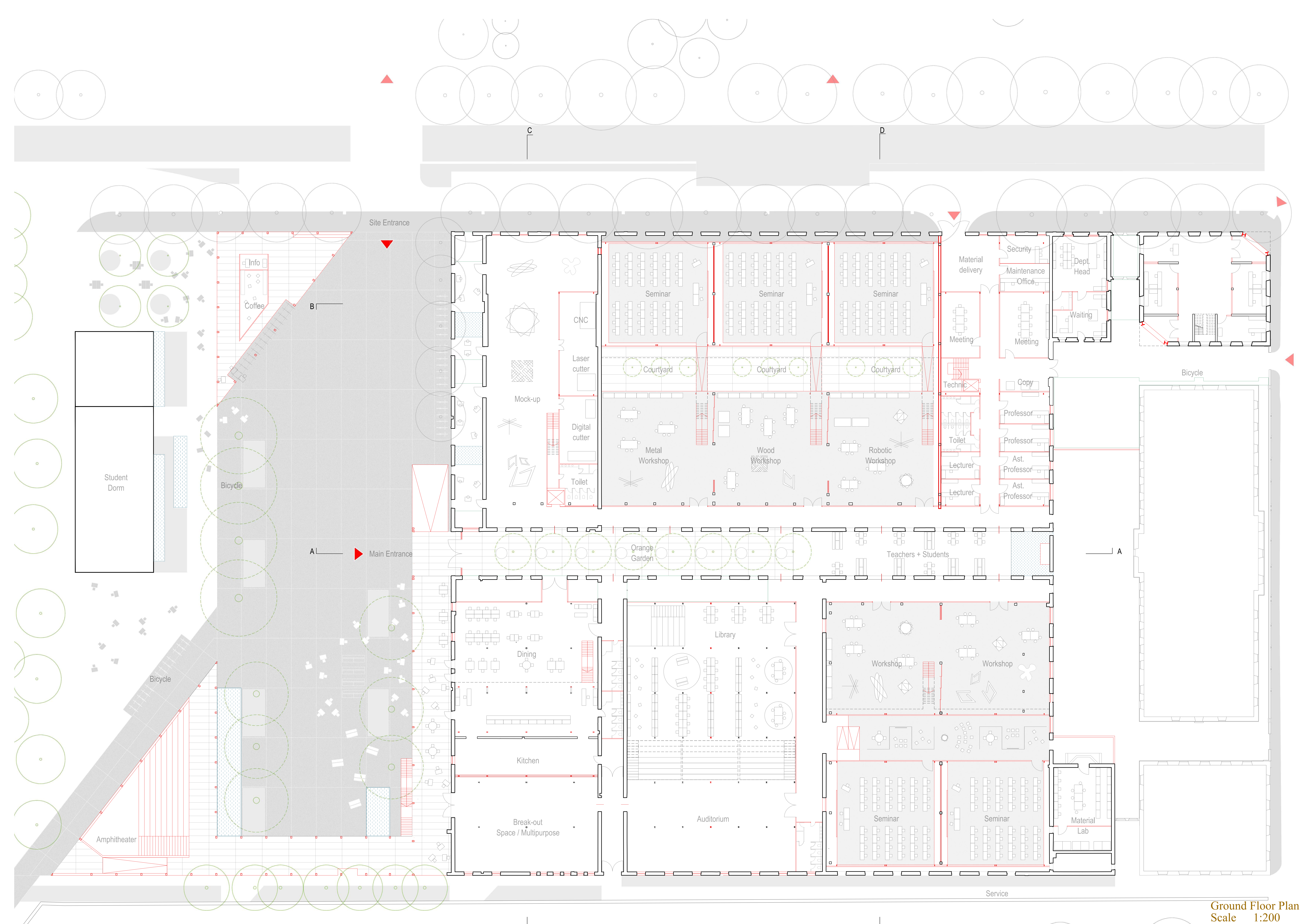


estensione nella tramviaria P.U.M.
 ciclo pedonale
 Tram linea 2
 parcheggio pubblico
 parcheggio privato di progetto - riservato P
 parcheggio ad uso pubblico di progetto - riservato



Plan of Rome
 Scale 1:10000





Ground Floor Plan
Scale 1:200



First Floor Plan
Scale 1:200

SWOT

- S**
- The structure has bigger span thus allowing flexibility in space making
 - Good connectivity with the city (Tram + Bus + Car)
 - Popular public area because of MAXXI museum + Library
 - Defused light from the ceiling could be helpful for some functions (studio + workshop)
 - High ceiling is helpful for some functions (Installation + Model workshop + Mock up models + Robotic / 3d printing)
 - The atmosphere inside the building is strongly associated with the past, it gives us a feeling of history

- W**
- Do not have sufficient openings thus no visual connection with the street, it feels like a solid mass just sitting there.
 - Extra loads on the existing structure is not possible.
 - Not enough height for new mezzanine floor
 - Lot of light from the roof could be inappropriate to some functions (Seminar + Auditorium)
 - Most of the parts of metal frames are badly damaged
 - Some parts of the roofing material have been deteriorated

- O**
- The special shape of the roof element can allow alternative uses (ex. Planter box + Rain water collector etc.)
 - The structure allows the facades to be opened up to allow more natural light into the interior space
 - Interior walls could be easily removed to allow more flexible spaces.
 - Moderate height for bigger functions / gathering (Mock up space + Workshop + Auditorium)
 - The special rec roof structure could be a strong guiding element

- T**
- Some of the metal sheets on the ceiling are about to fall, could be hazardous
 - East side of the building is not fully accessible because of the military building
 - Some glass on the roof are also about to fall, which could be dangerous



Site Plan
Scale 1:500



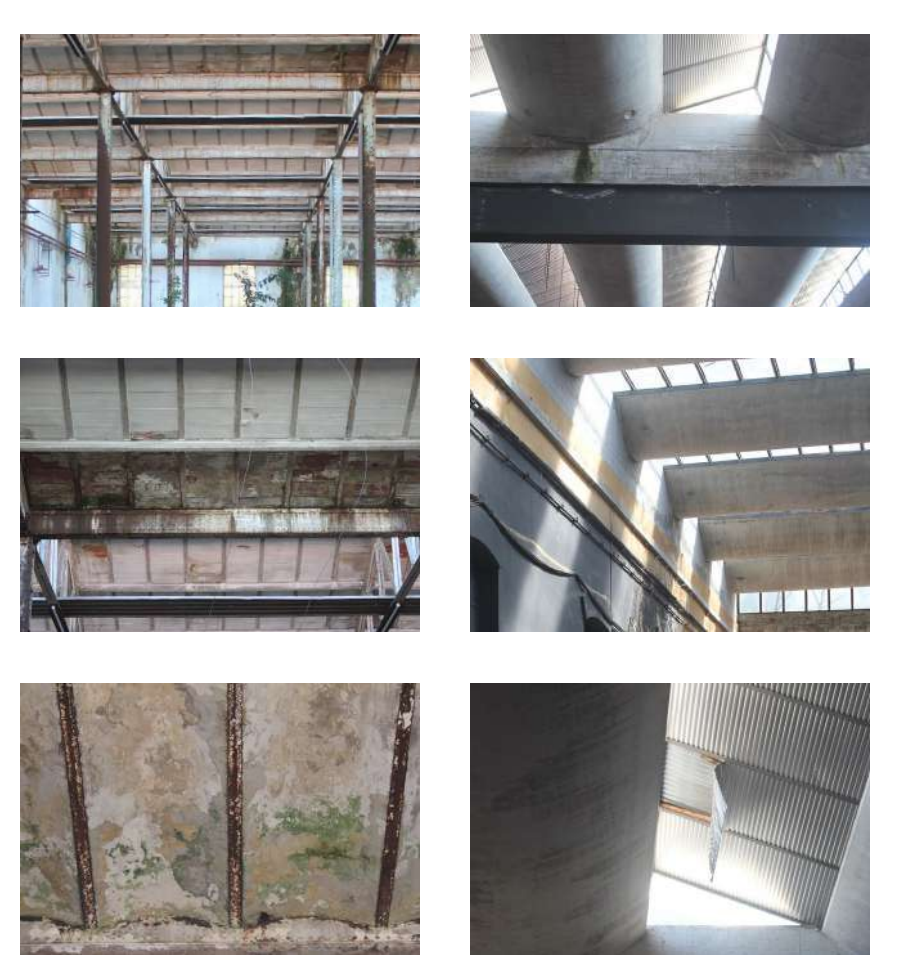
Value of the Existing
Study of the basic elements of architecture in the existing building

Floor



Value of the Existing
Study of the basic elements of architecture in the existing building

Wall

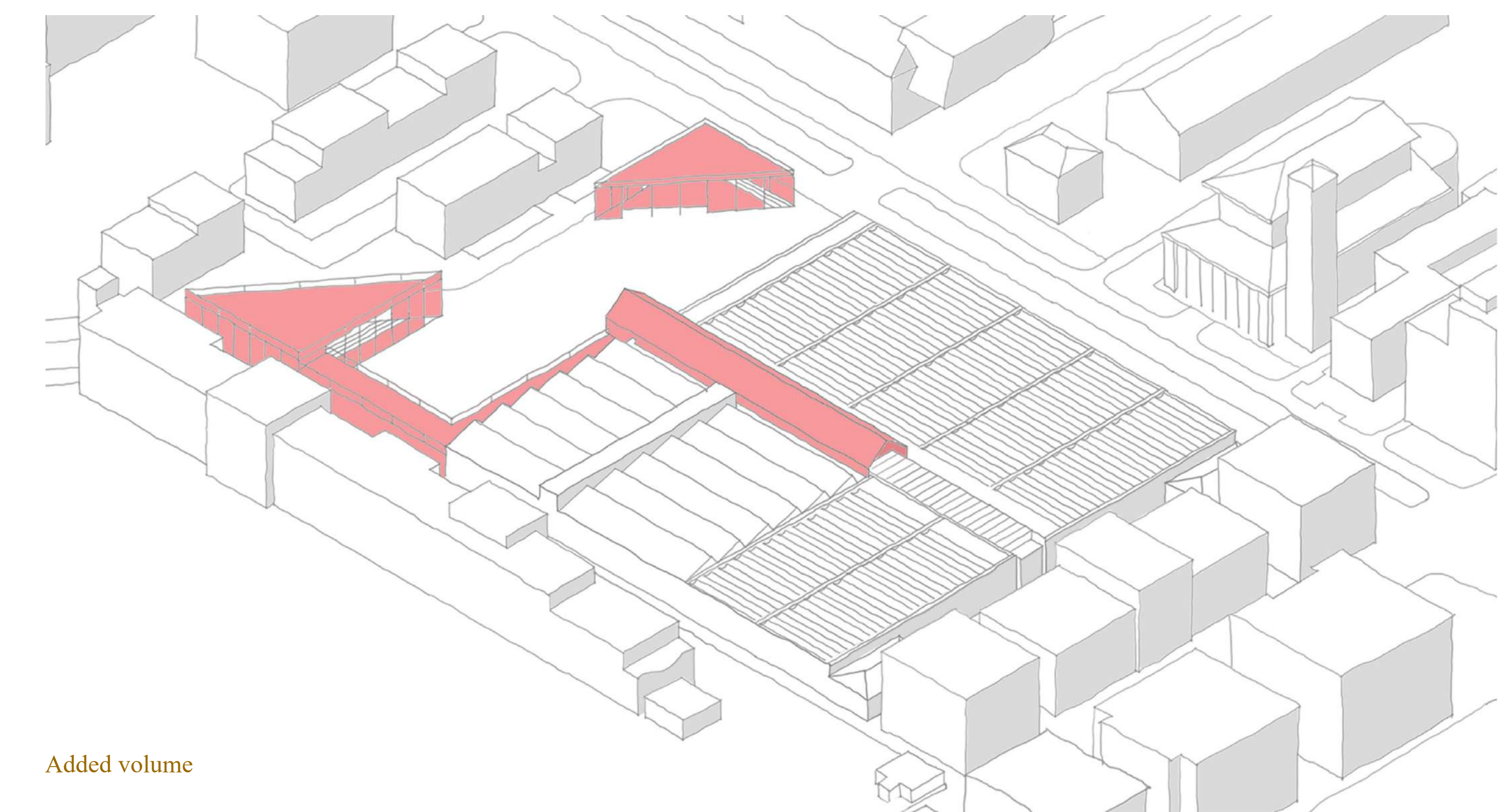


Value of the Existing
Study of the basic elements of architecture in the existing building

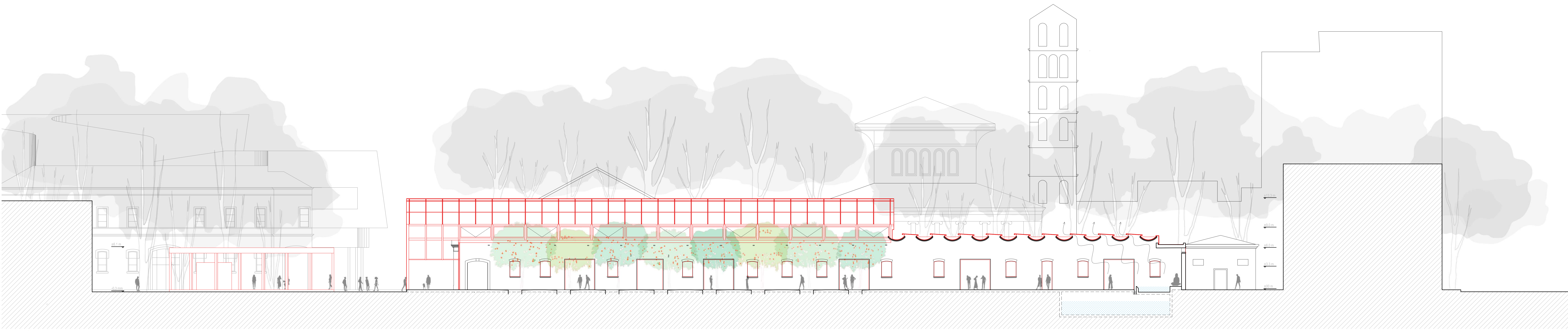
Ceiling + Beam



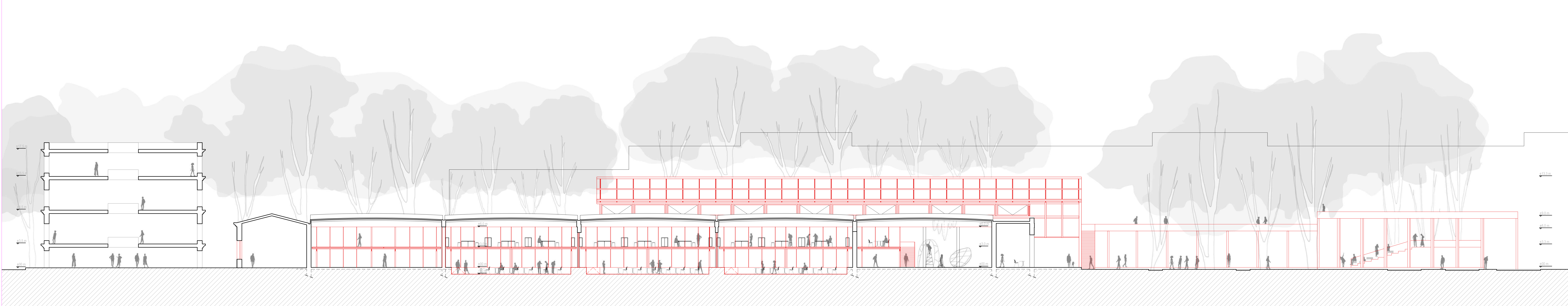
Level of intervention



Added volume



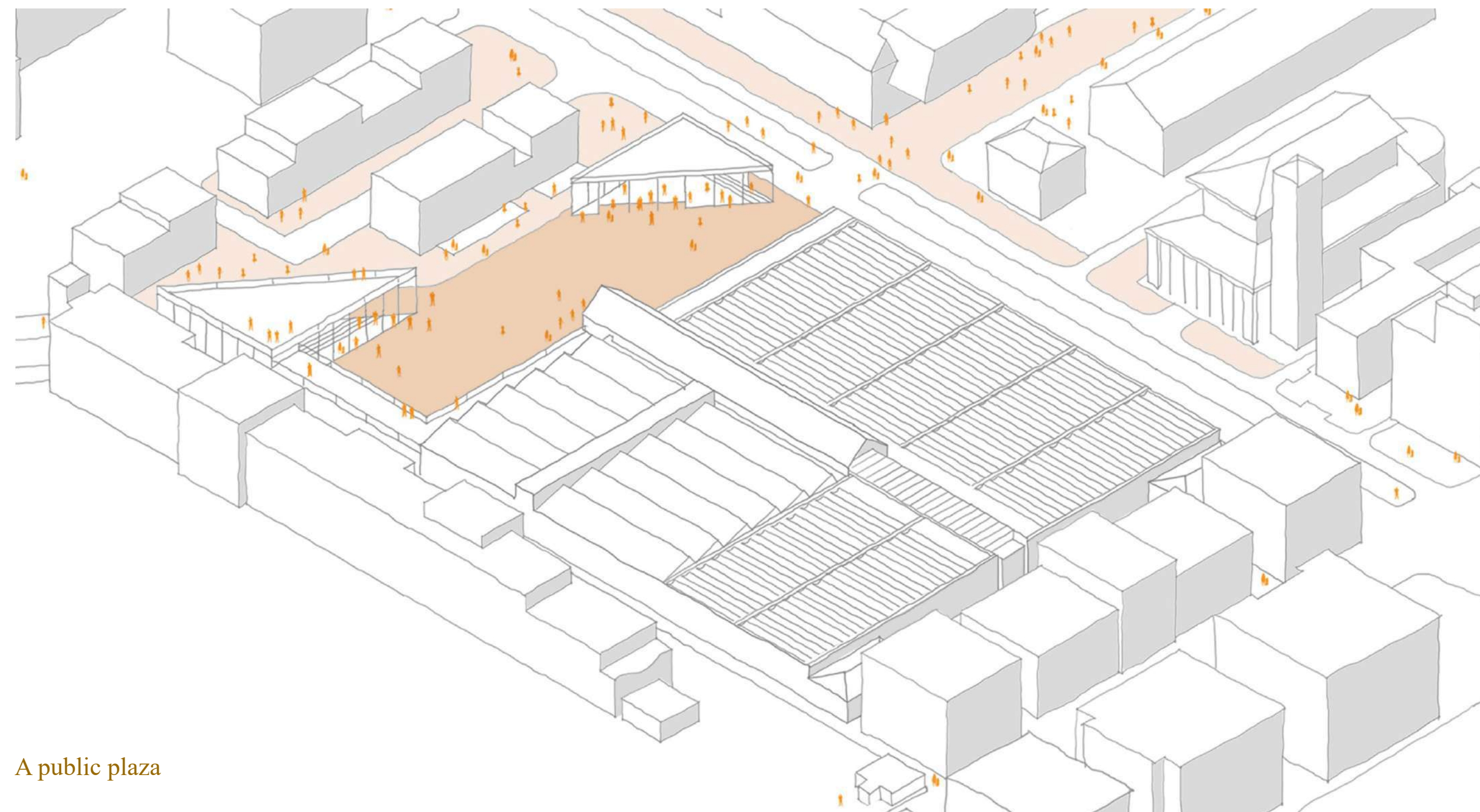
Section AA
Scale 1:200



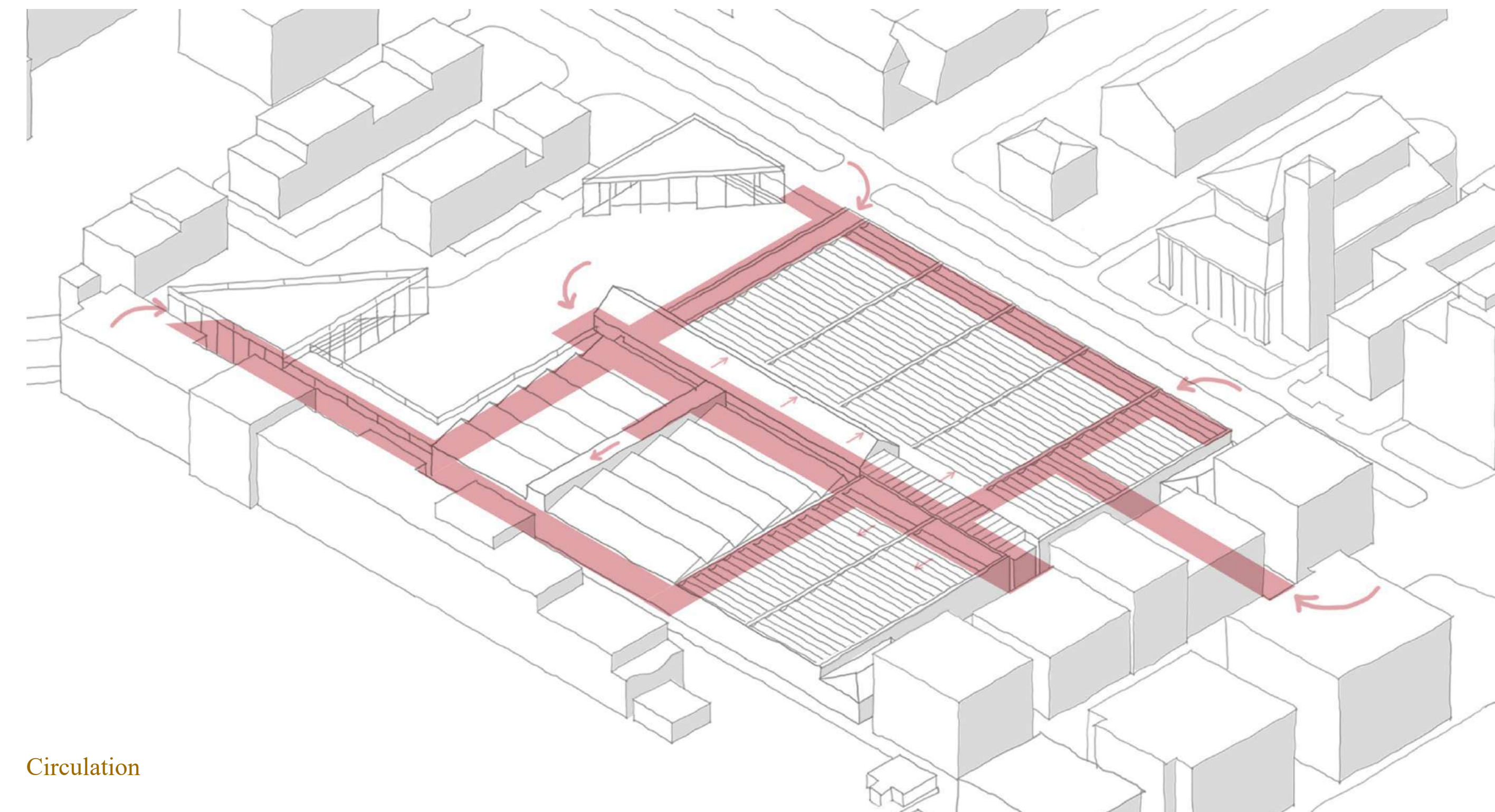
Section BB
Scale 1:200

The first question is:
How can a building complex as isolated as the two hangars in via Guido Reni be opened up and related to its city context?

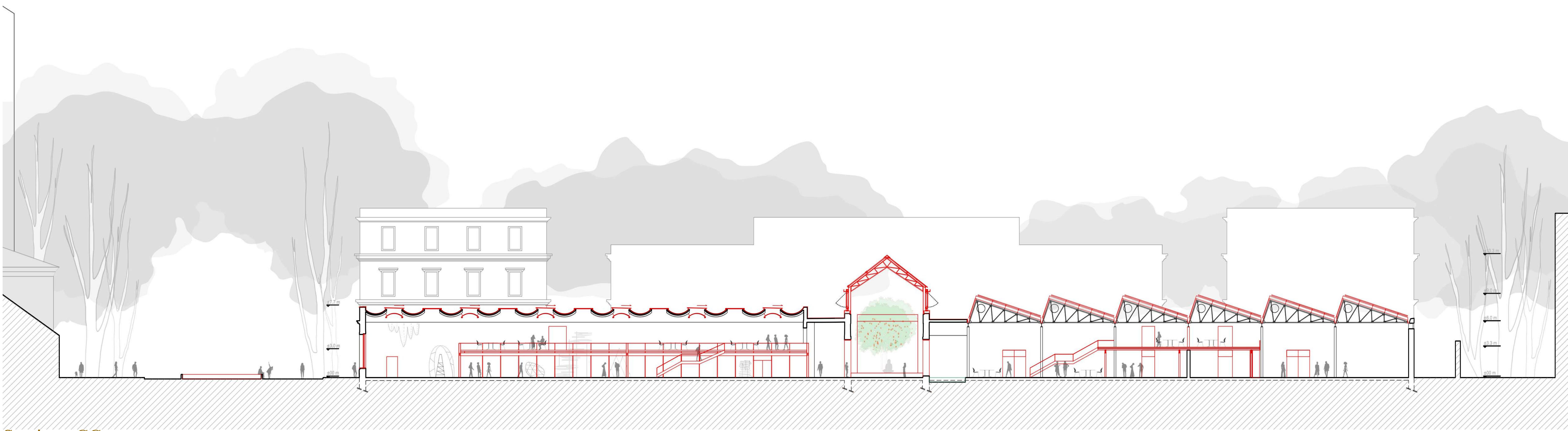
The second question is:
How can structures as the ones supporting the two hangars' sheds and vaults be included / englobed into a rehabilitation and reuse project?



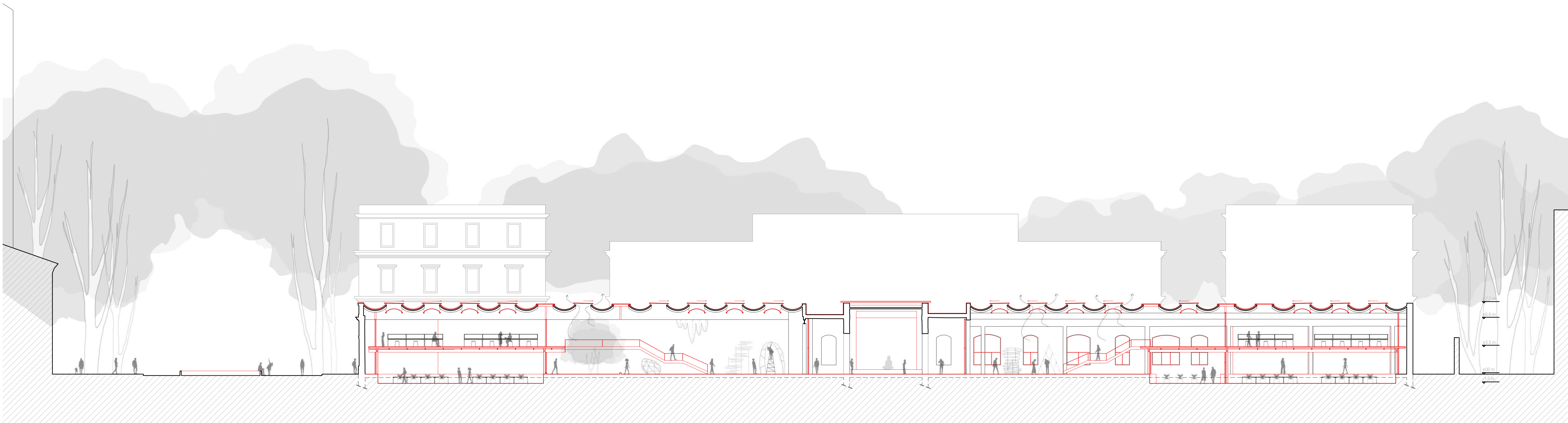
A public plaza



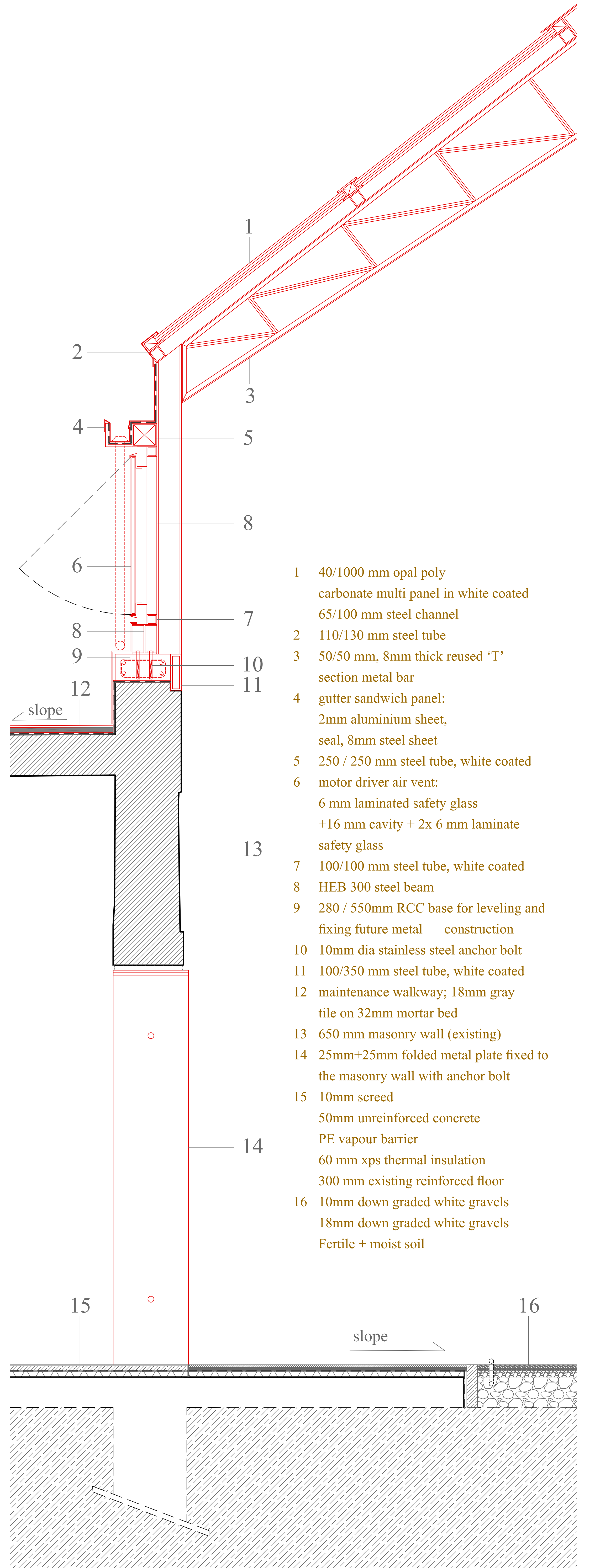
Circulation



Section CC
Scale 1:200



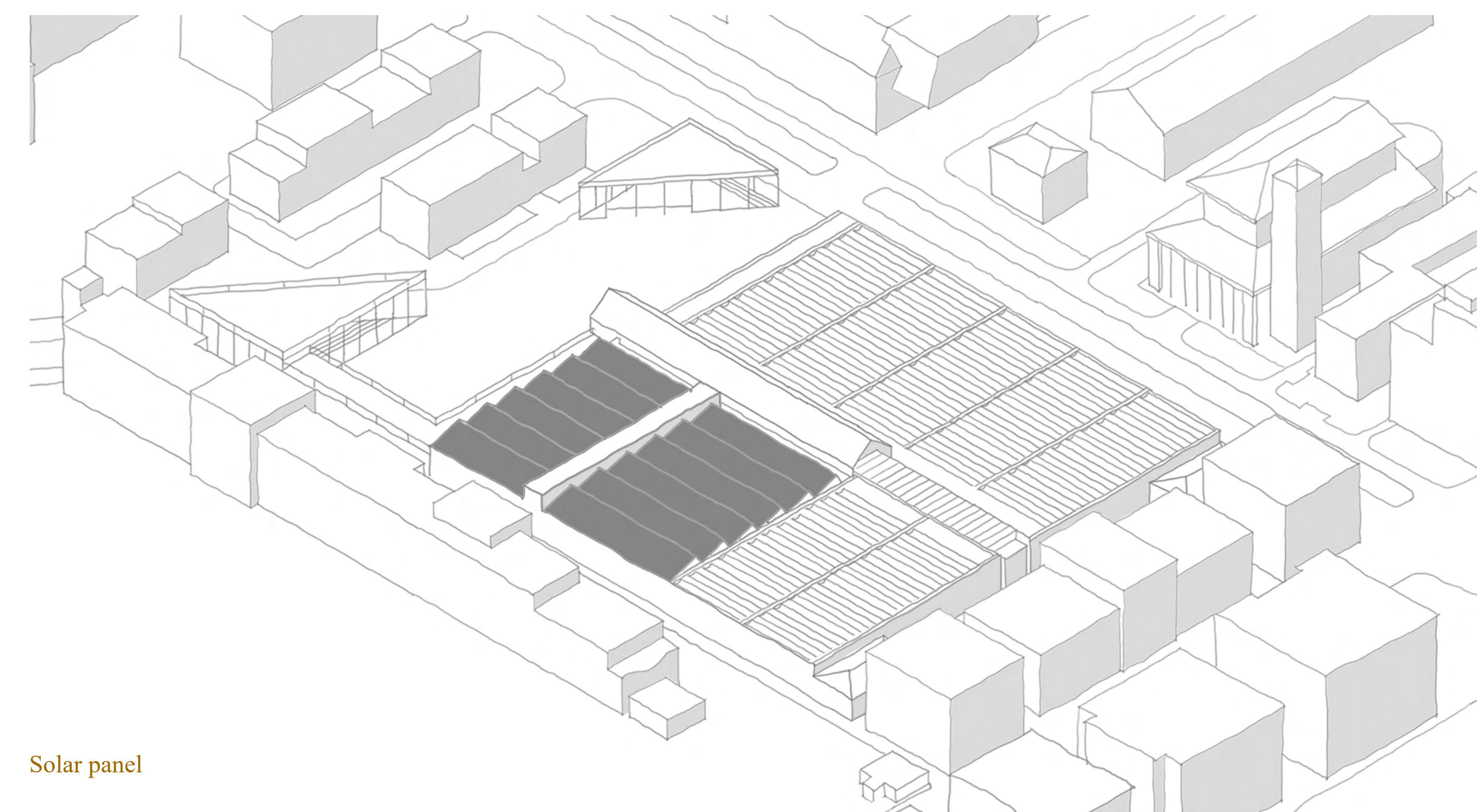
Section DD
Scale 1:200



- 1 40/1000 mm opal poly carbonate multi panel in white coated
- 2 65/100 mm steel channel
- 3 110/130 mm steel tube
- 4 50/50 mm, 8mm thick reused 'T' section metal bar
- 5 gutter sandwich panel: 2mm aluminium sheet, seal, 8mm steel sheet
- 6 250 / 250 mm steel tube, white coated
- 7 motor driver air vent: 6 mm laminated safety glass +16 mm cavity + 2x 6 mm laminate safety glass
- 8 100/100 mm steel tube, white coated
- 9 HEB 300 steel beam
- 10 280 / 550mm RCC base for leveling and fixing future metal construction
- 11 10mm dia stainless steel anchor bolt
- 12 100/350 mm steel tube, white coated
- 13 maintenance walkway; 18mm gray tile on 32mm mortar bed
- 14 650 mm masonry wall (existing)
- 15 25mm+25mm folded metal plate fixed to the masonry wall with anchor bolt
- 16 10mm screed
- 50mm unreinforced concrete
- PE vapour barrier
- 60 mm xps thermal insulation
- 300 mm existing reinforced floor
- 10mm down graded white gravels
- 18mm down graded white gravels
- Fertile + moist soil



Greenery



Solar panel