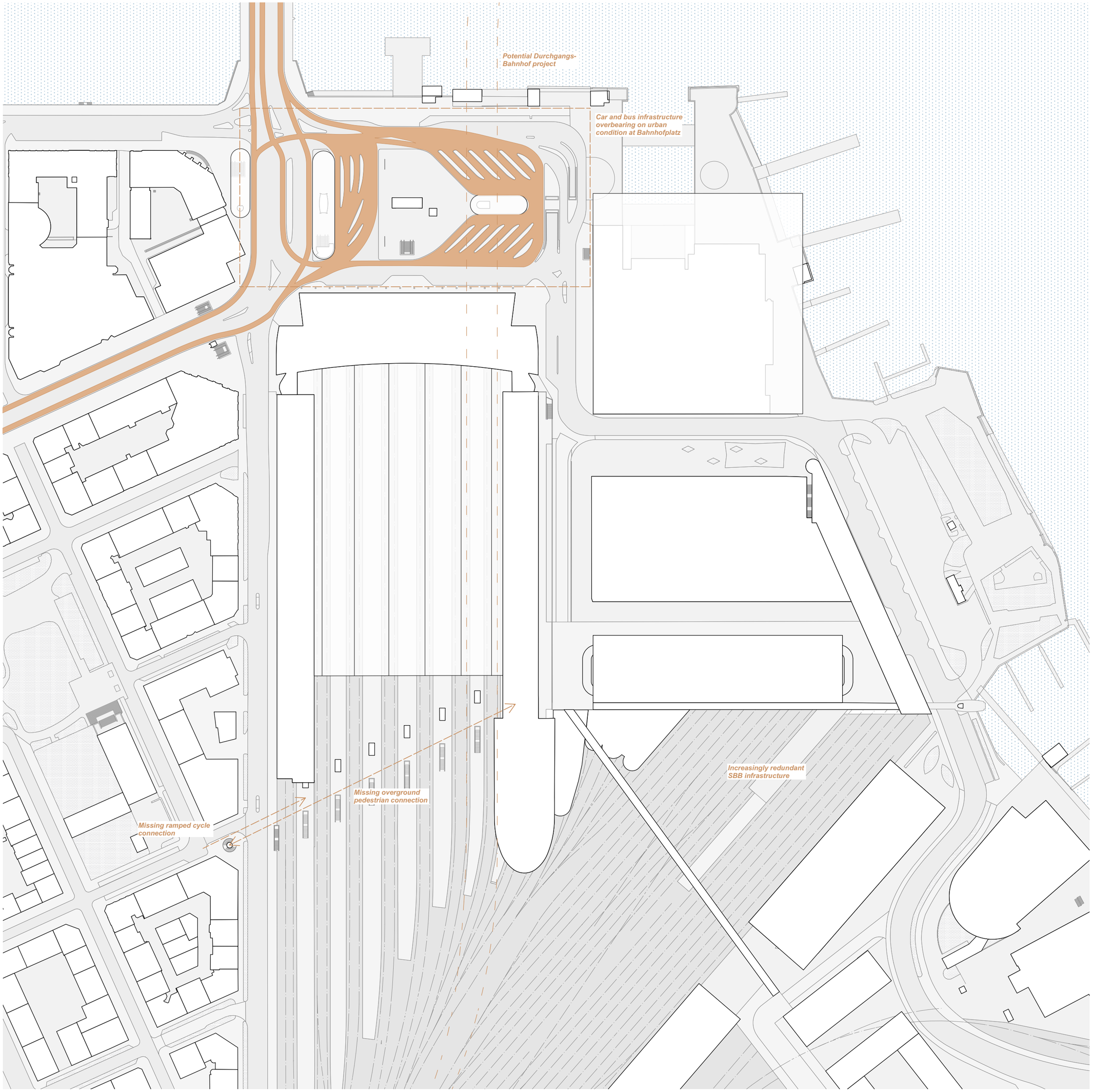
Masters's thesis at the Lucerne School of Engineering and Architecture

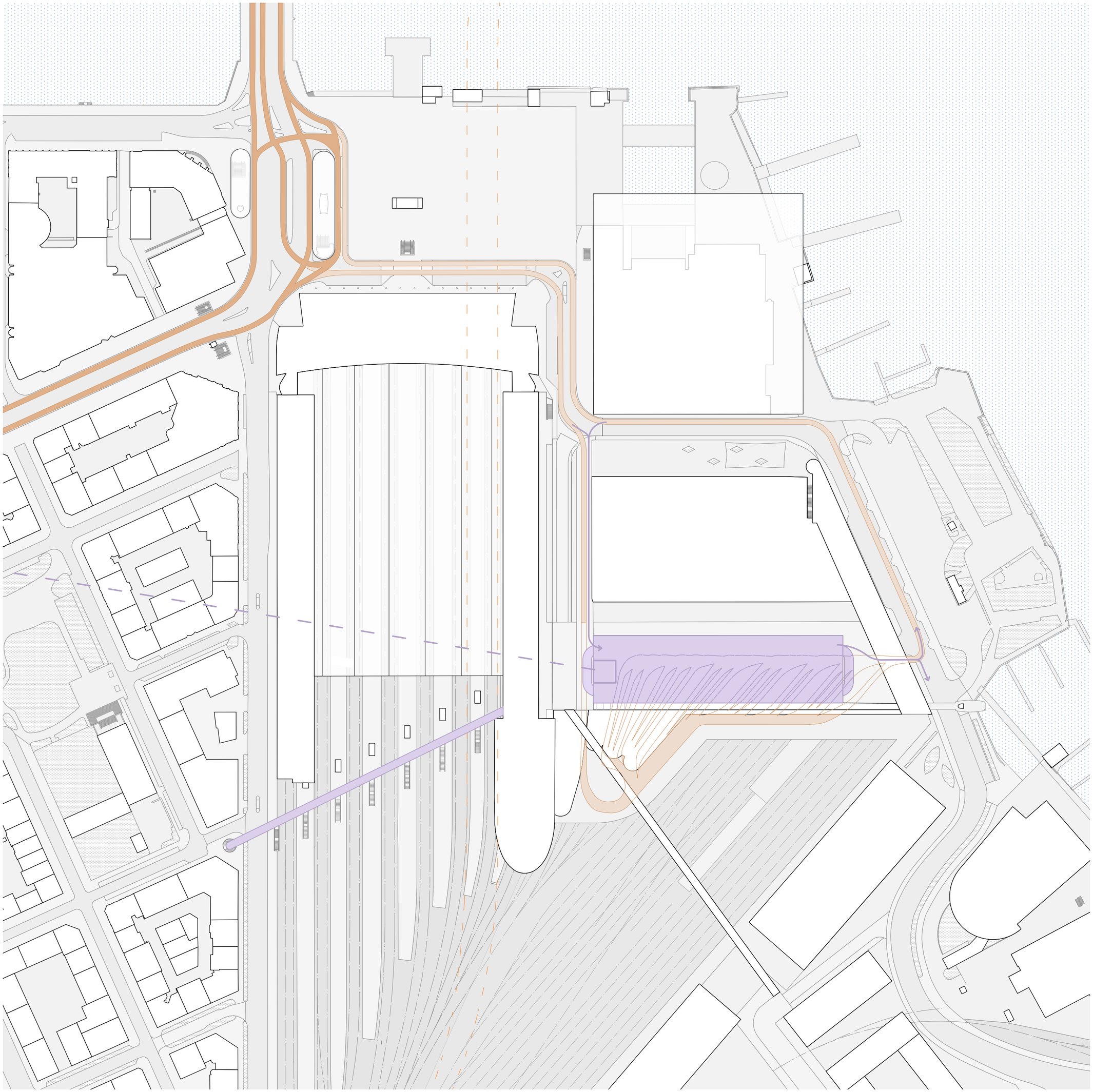
Title	**Cargo en Flux: A Divergent Logistics Paradigm for Switzerland and Luzern**
Student	**Redwood, Joseph**
Master's degree program	**Architecture**
Semester	**FS22**
Lecturer	Käferstein, Johannes
External examiner	Graber, Niklaus / Lütyens, Oliver

The underground logistics project Cargo Sous Terrain has quickly become an accepted part of a Swiss infrastructural future without a critical reflection on its fundamental logics. Logistics has become an increasingly integral part of urban life and its processes, successfully and abstractly navigating the various infrastructures that support it. Cargo en Flux is an alternative paradigm to Cargo Sous Terrain that speculates on a divergent infrastructural future for Switzerland and specifically the agglomeration of Luzern. Resisting the Swiss impulse for tunnelling, Cargo en Flux places its infrastructure at surface level so that it might have a meaningful interface with the public life that it has become such a key part of. This divergent paradigm makes the argument that by treating infrastructure as a designed ecology, the network of city distribution infrastructure can become an 'urban generator', while also promoting a healthier relationship with the complex network of logistical flows. The Cargo en Flux paradigm finds 'bundling' to be essential for both achieving network efficiencies and developing a rich urban interface with the infrastructural ecology.

Place, date Luzern 17.06.2022

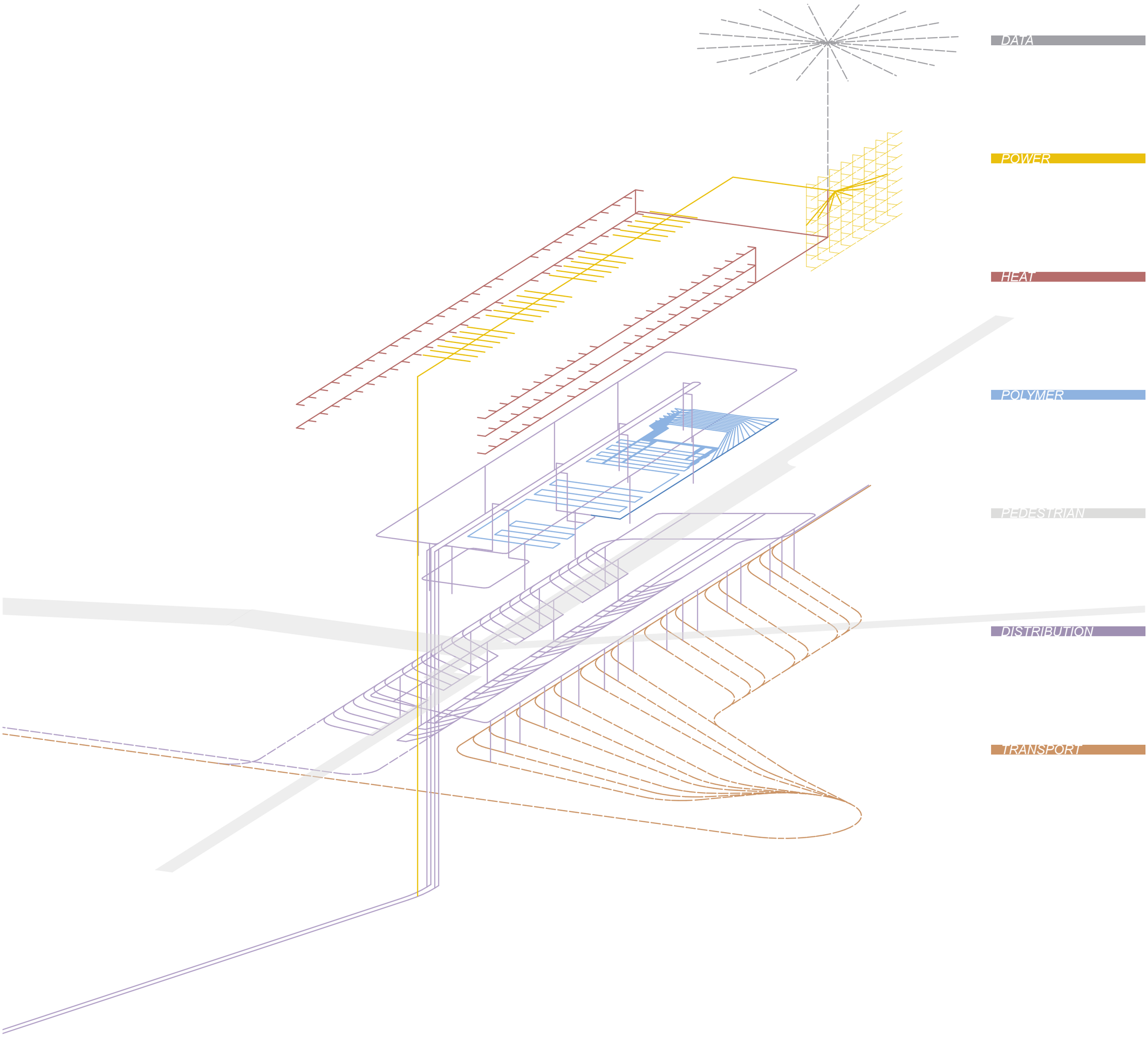


SITE PLAN AS EXISTING 1:2000

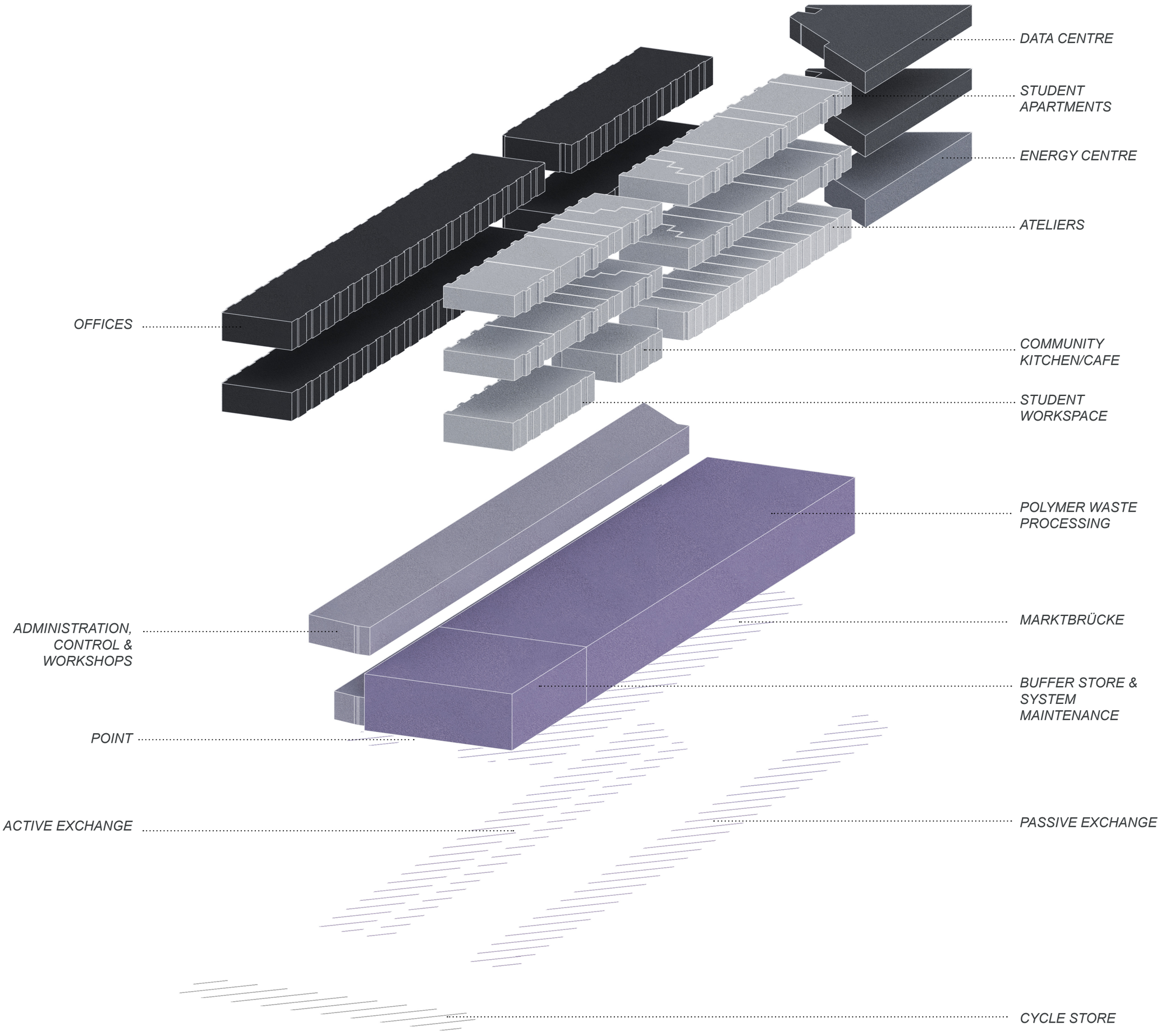


SITE PLAN AS PROPOSED 1:2000

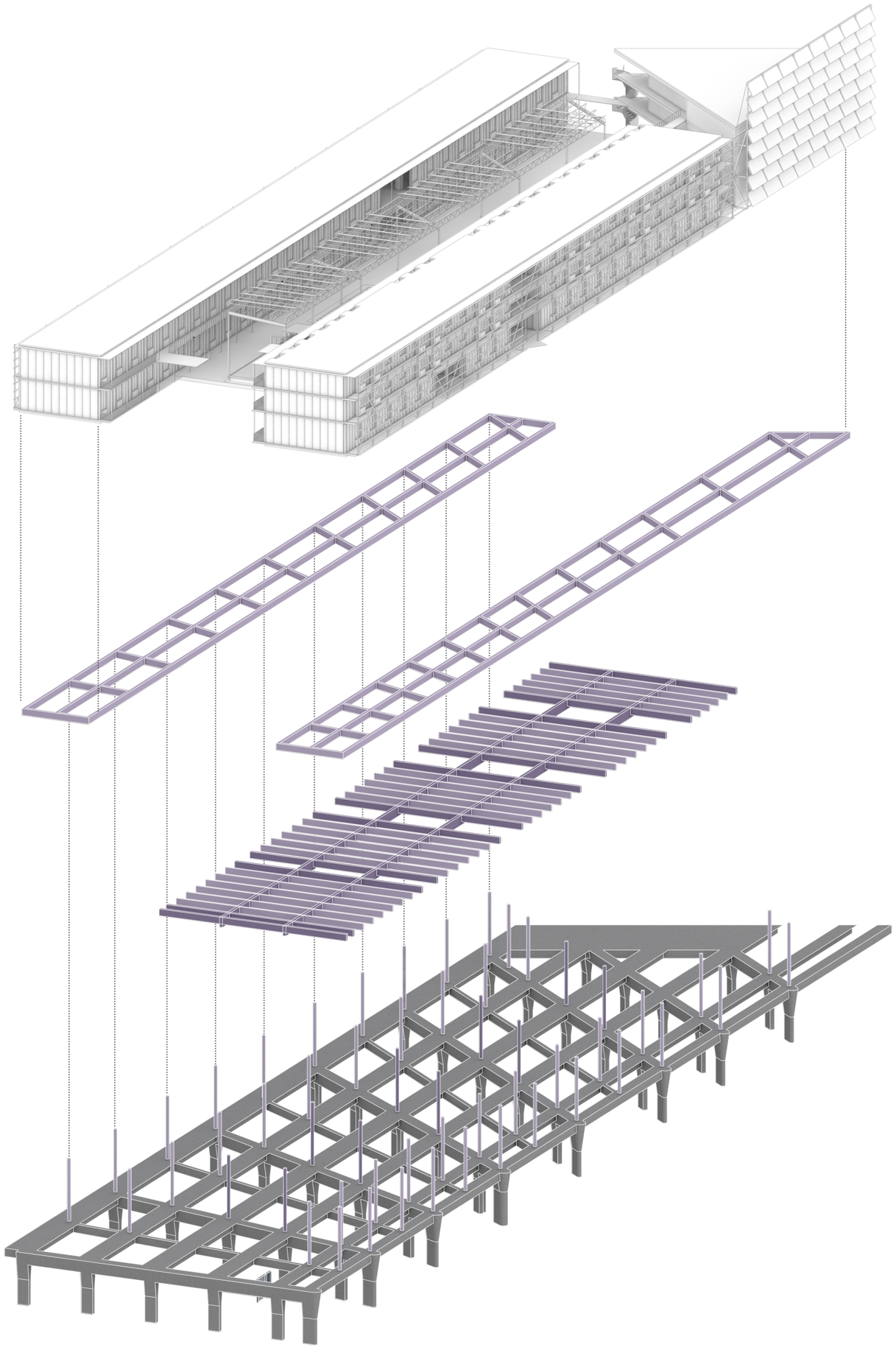
BAHNHOFPLATZ


DATA
POWER
HEAT
POLYMER
PEDESTRIAN
DISTRIBUTION
TRANSPORT

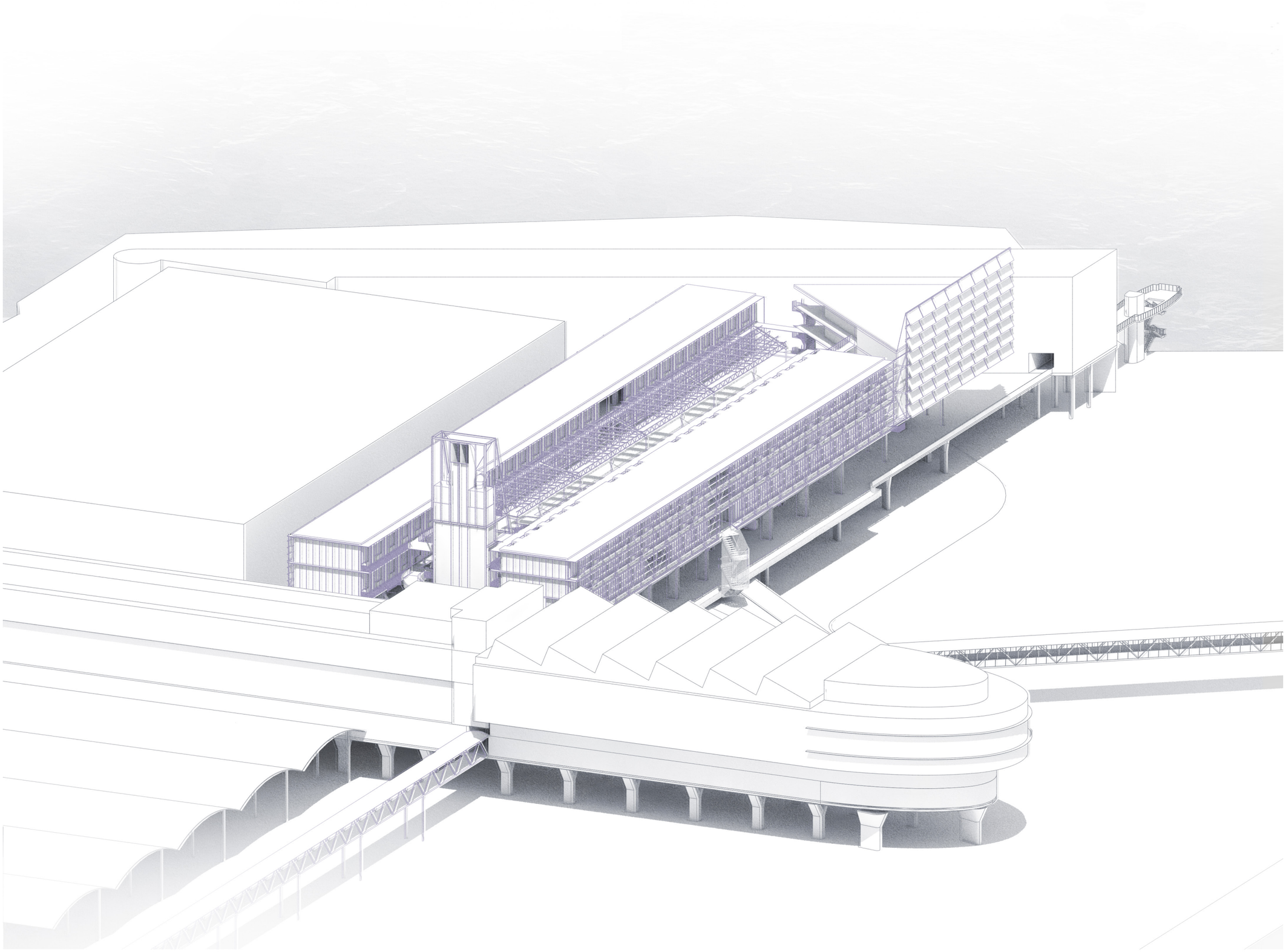
FLOWS 1:500



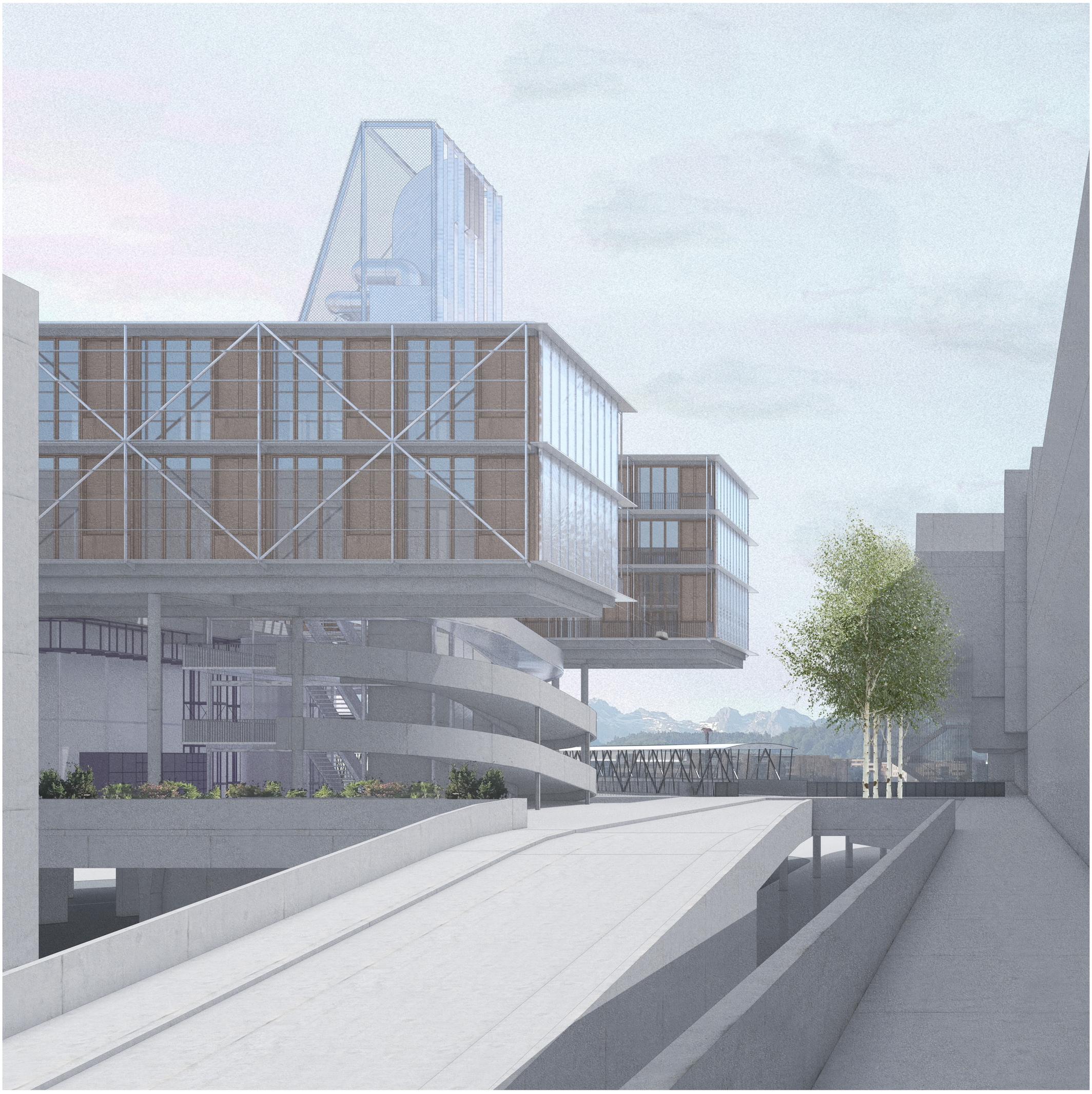
PROGRAM 1:500



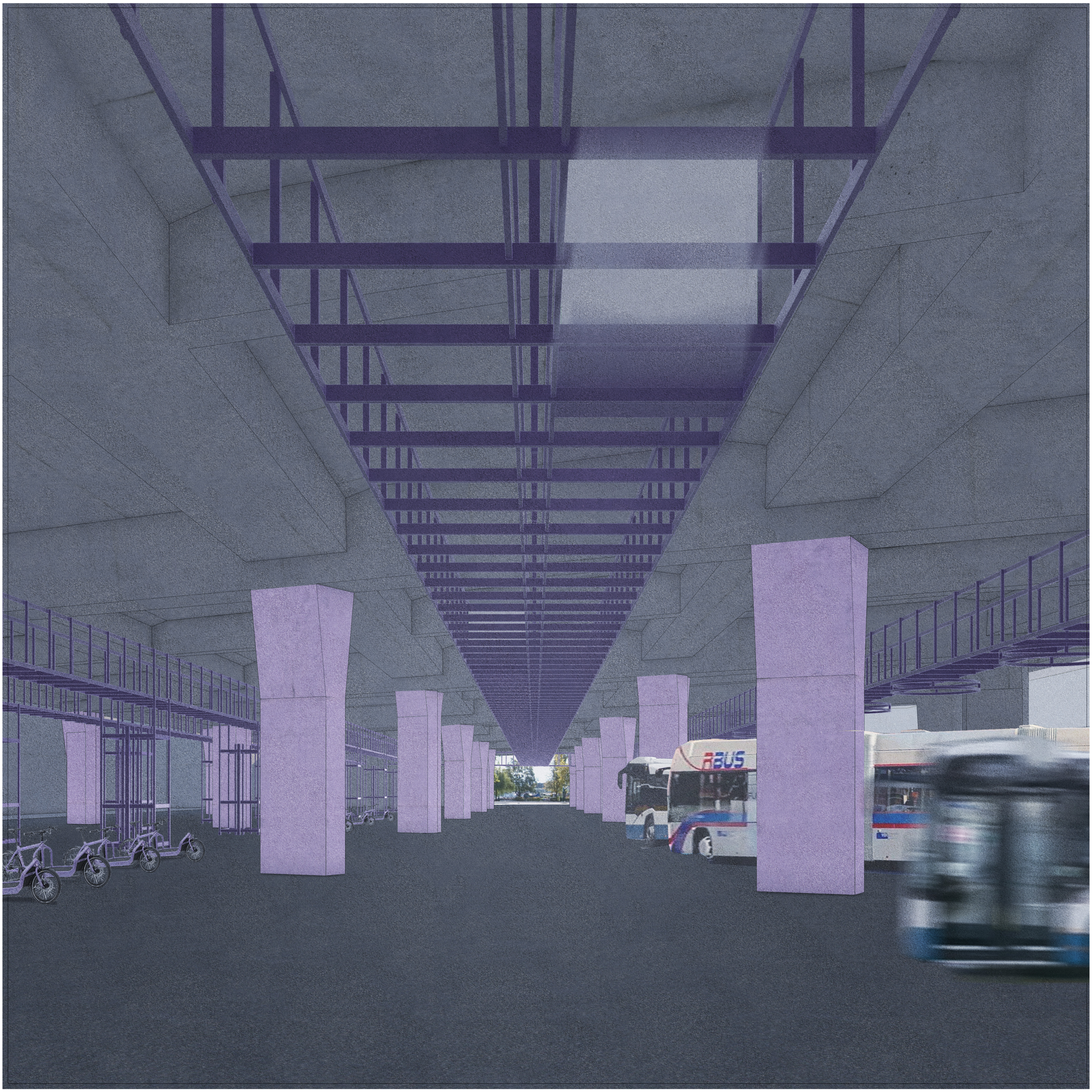
STRUCTURE 1:500



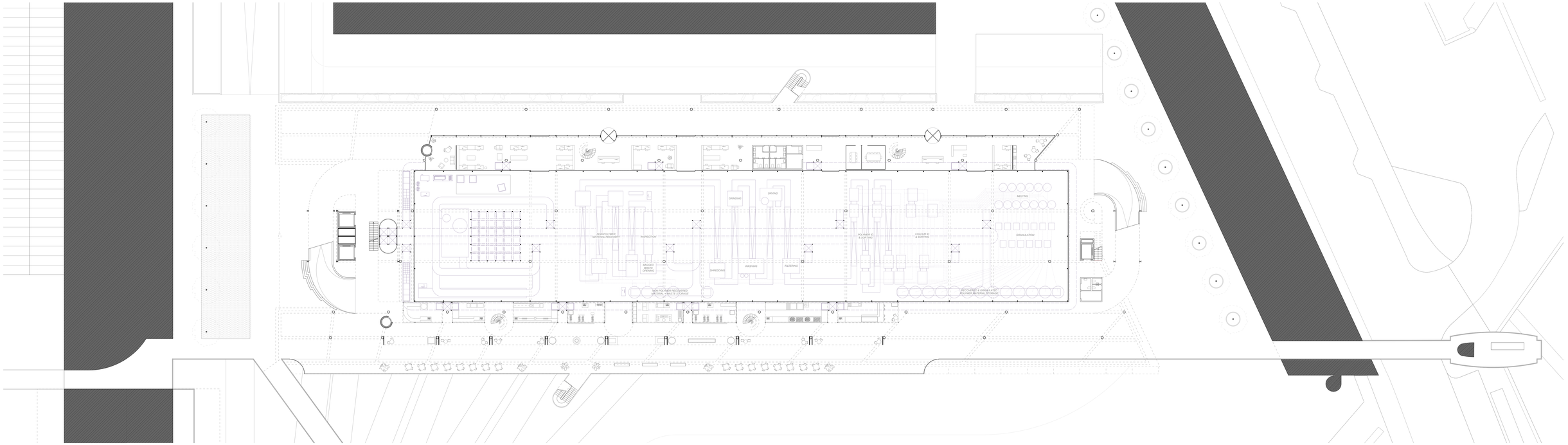
HALL OF FLOWS 1:500



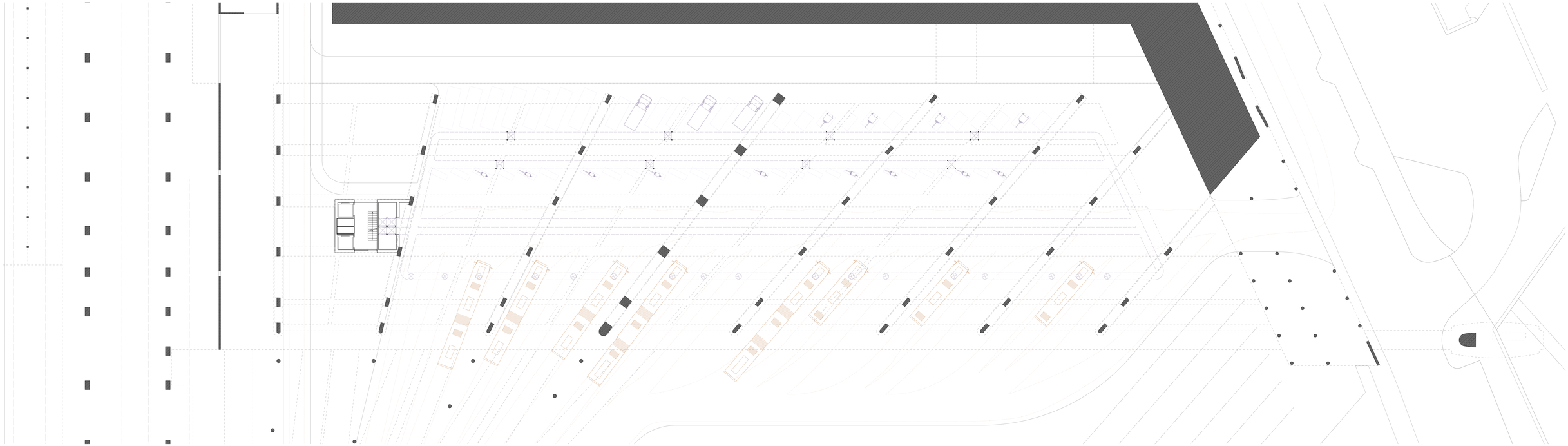
PLATZ DER STRÖME



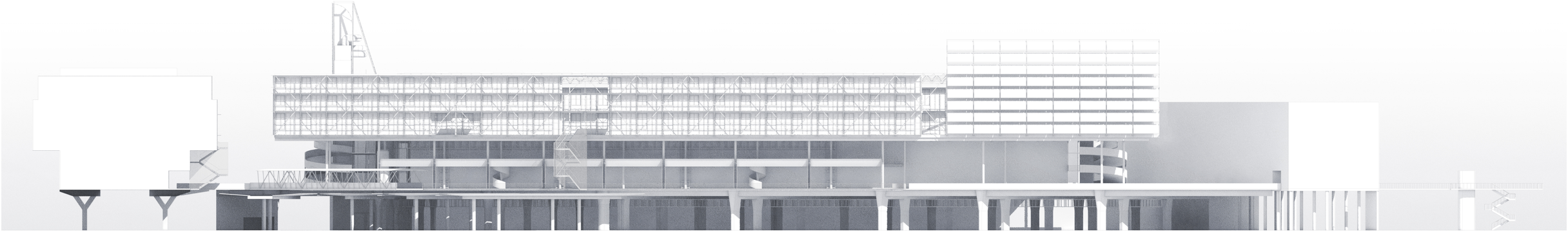
EXCHANGE



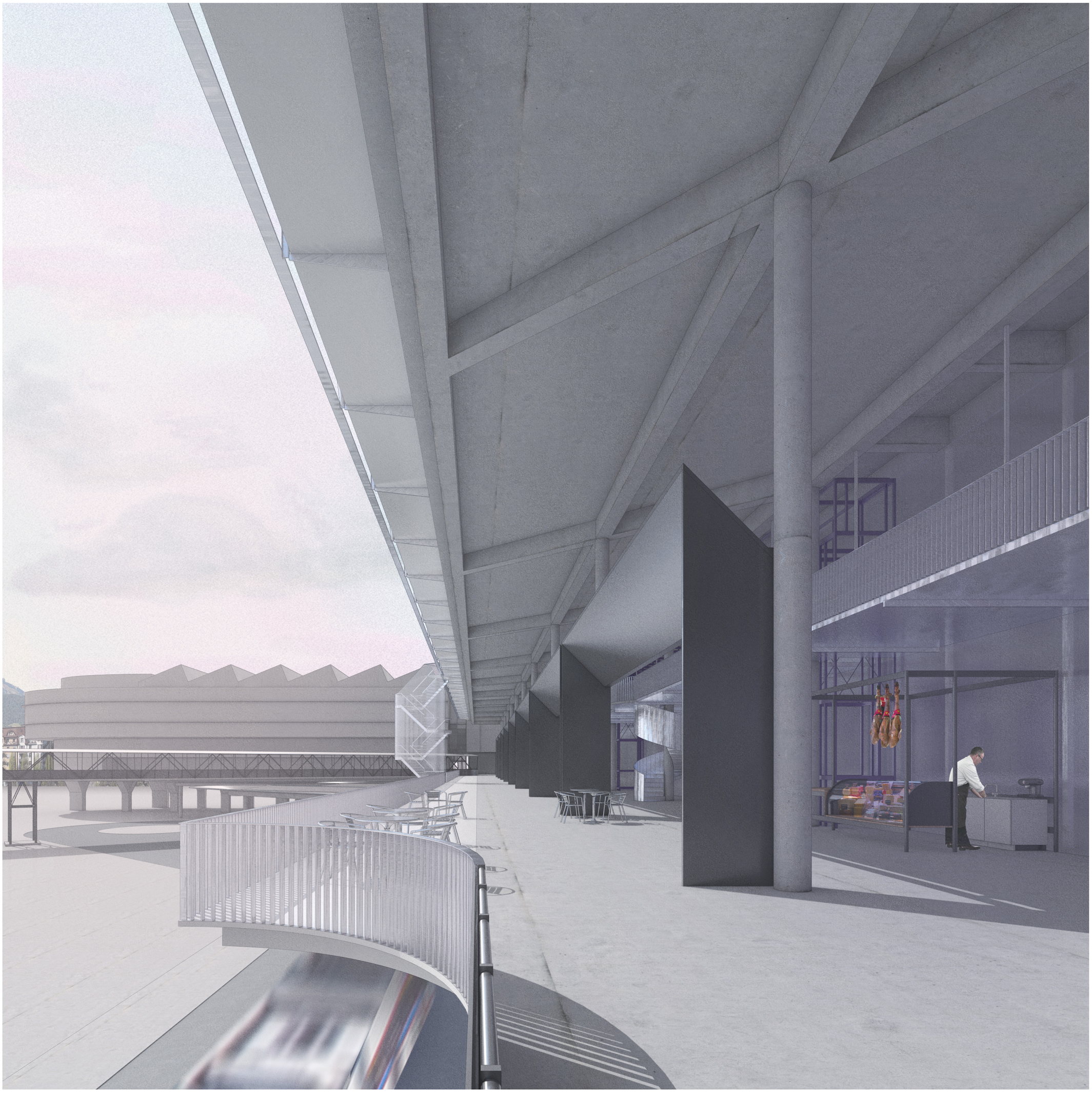
FIRST FLOOR PLAN 1:200



GROUND FLOOR PLAN 1:200

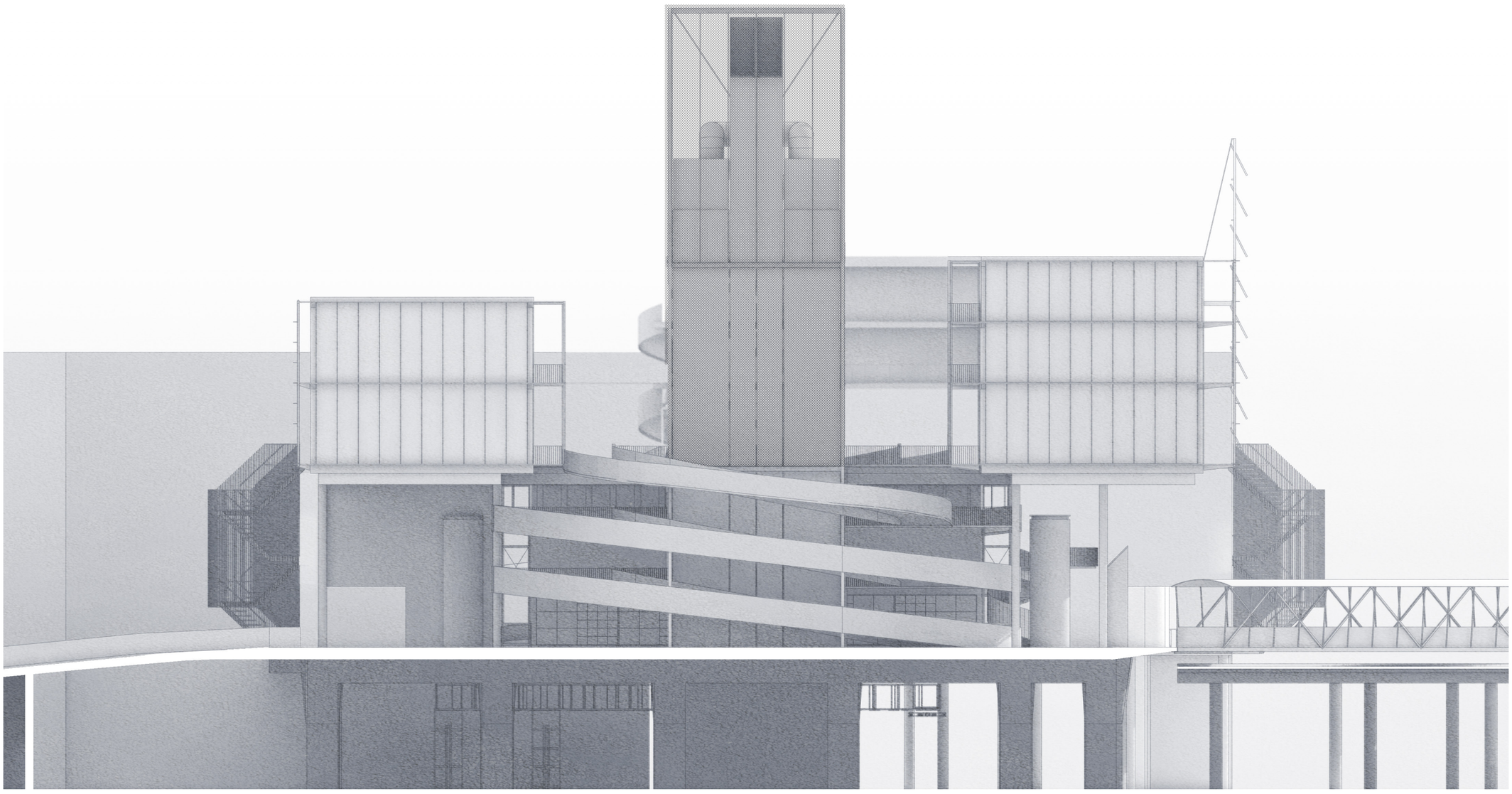


SOUTH ELEVATION 1:200

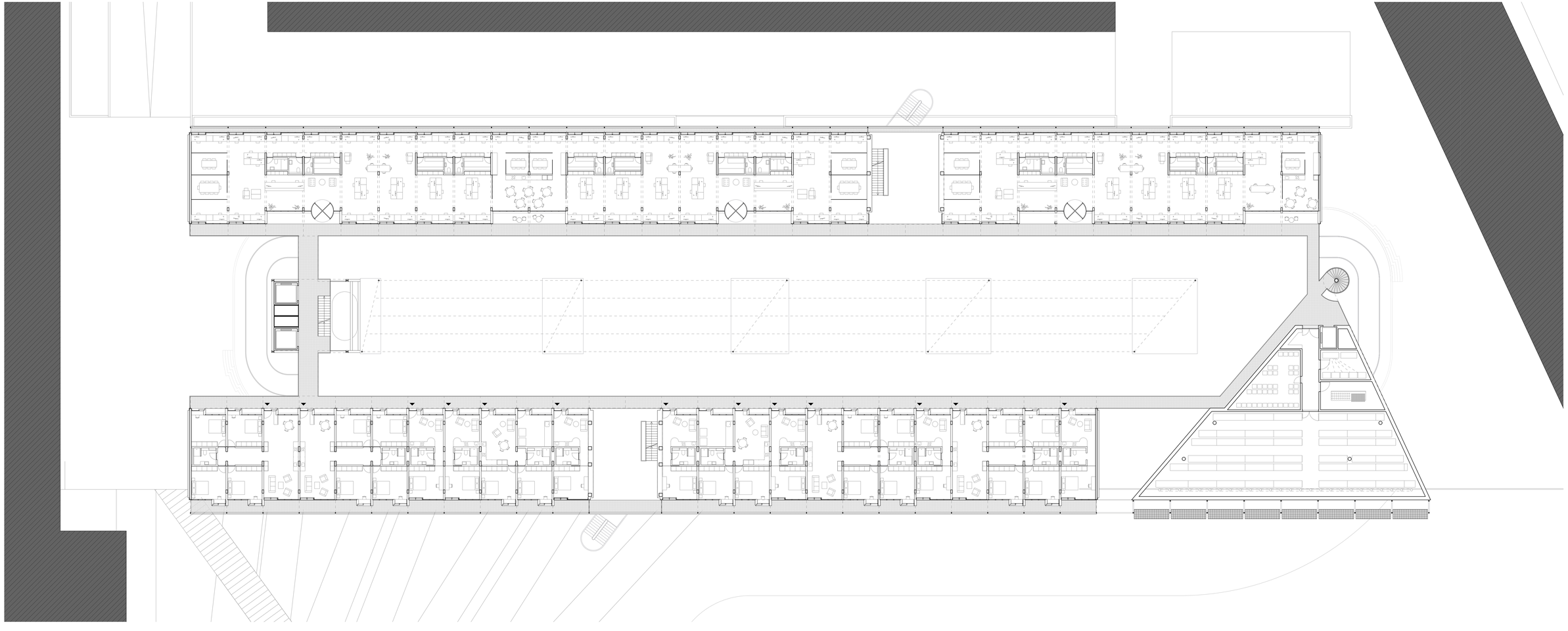


MARKTBRÜCKE

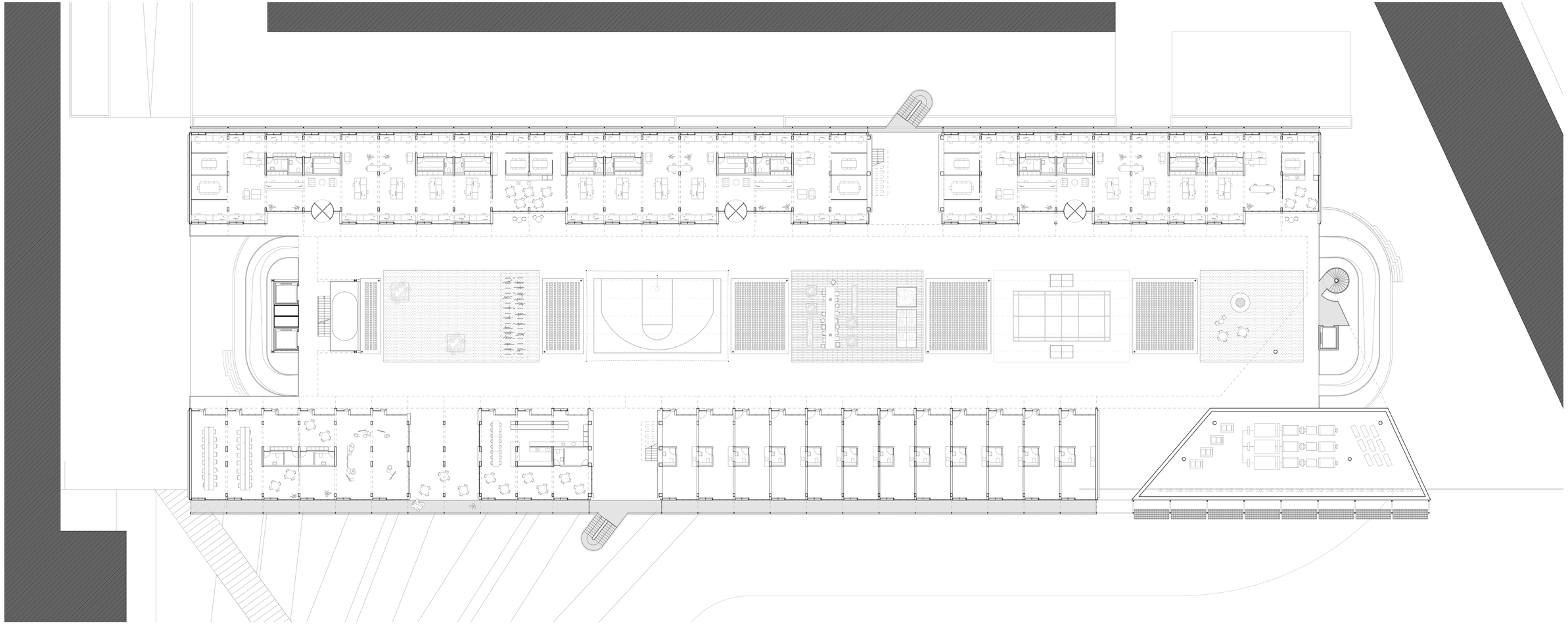
INDUSTRIEHALLE



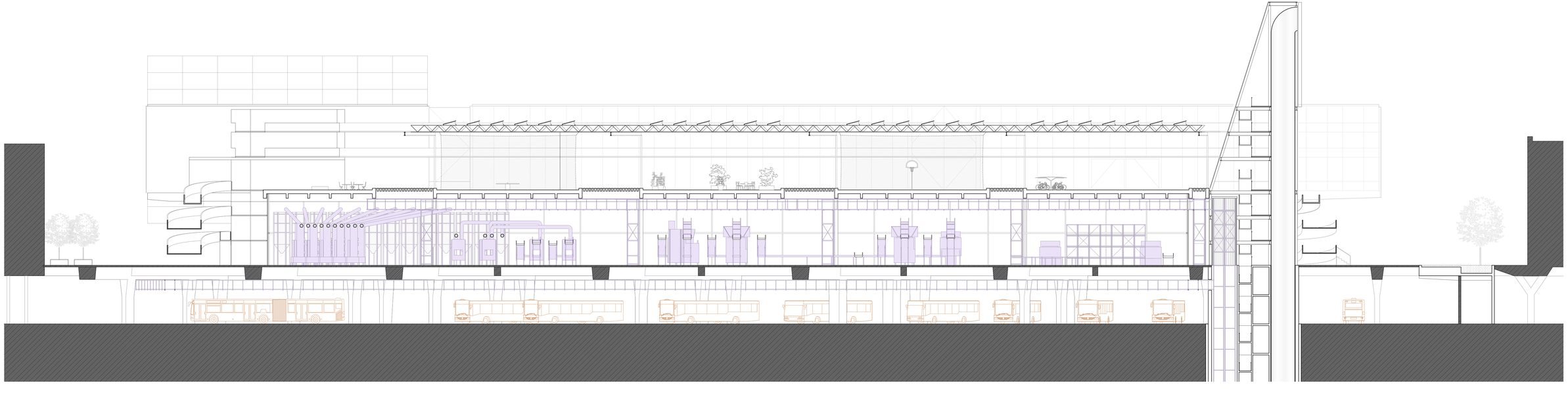
WEST ELEVATION 1:200



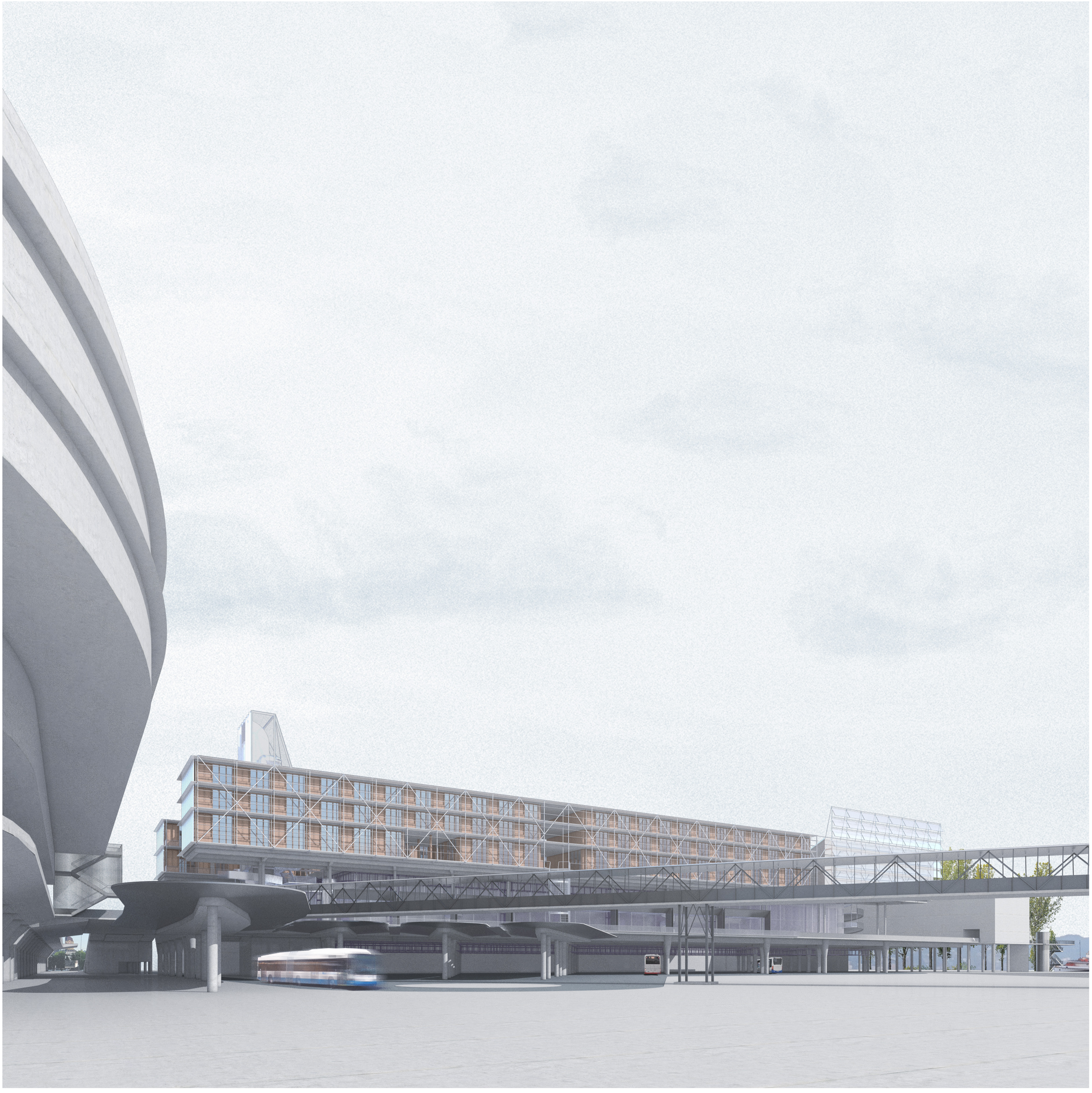
THIRD FLOOR PLAN 1:200



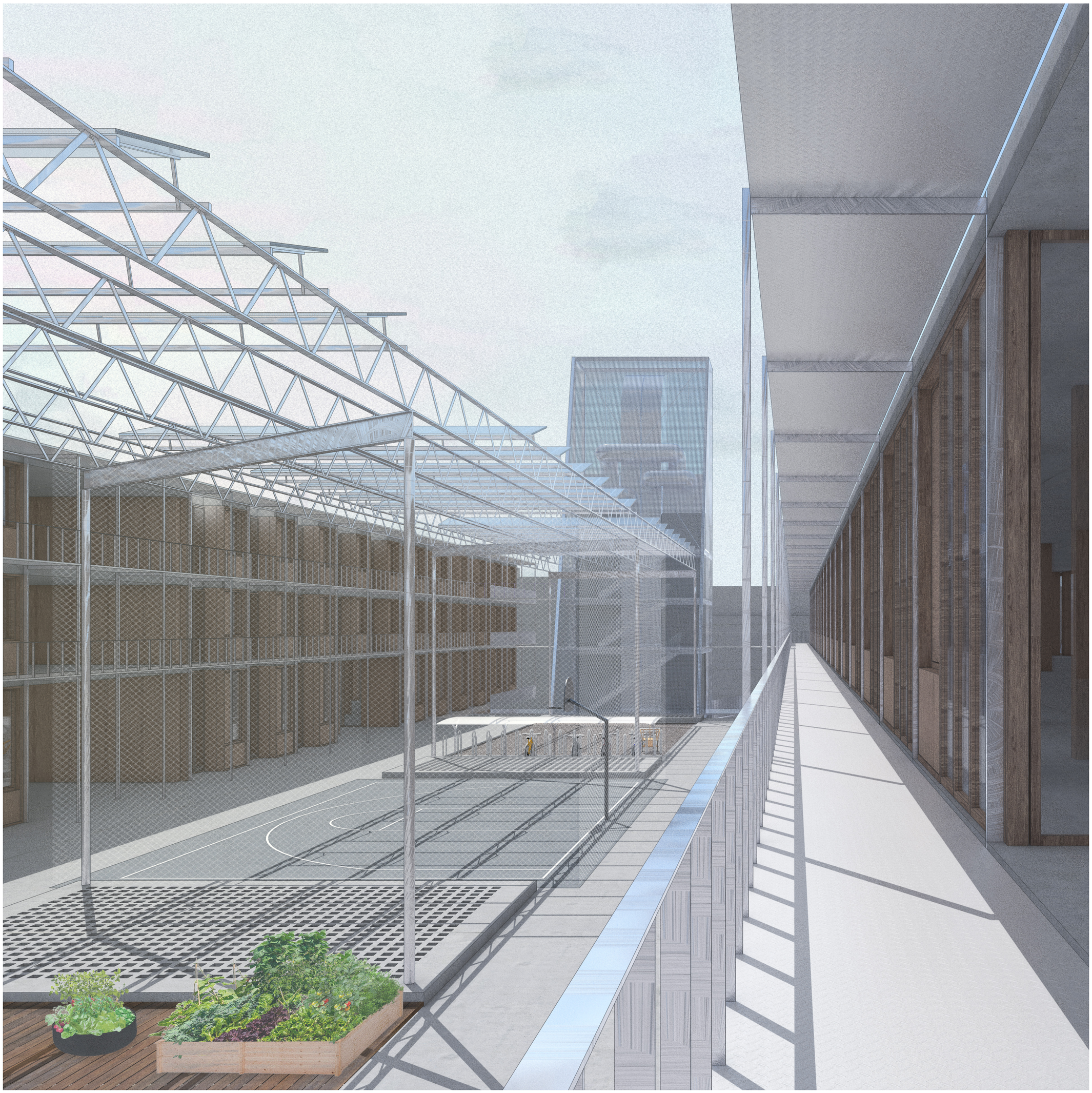
SECOND FLOOR PLAN 1:200



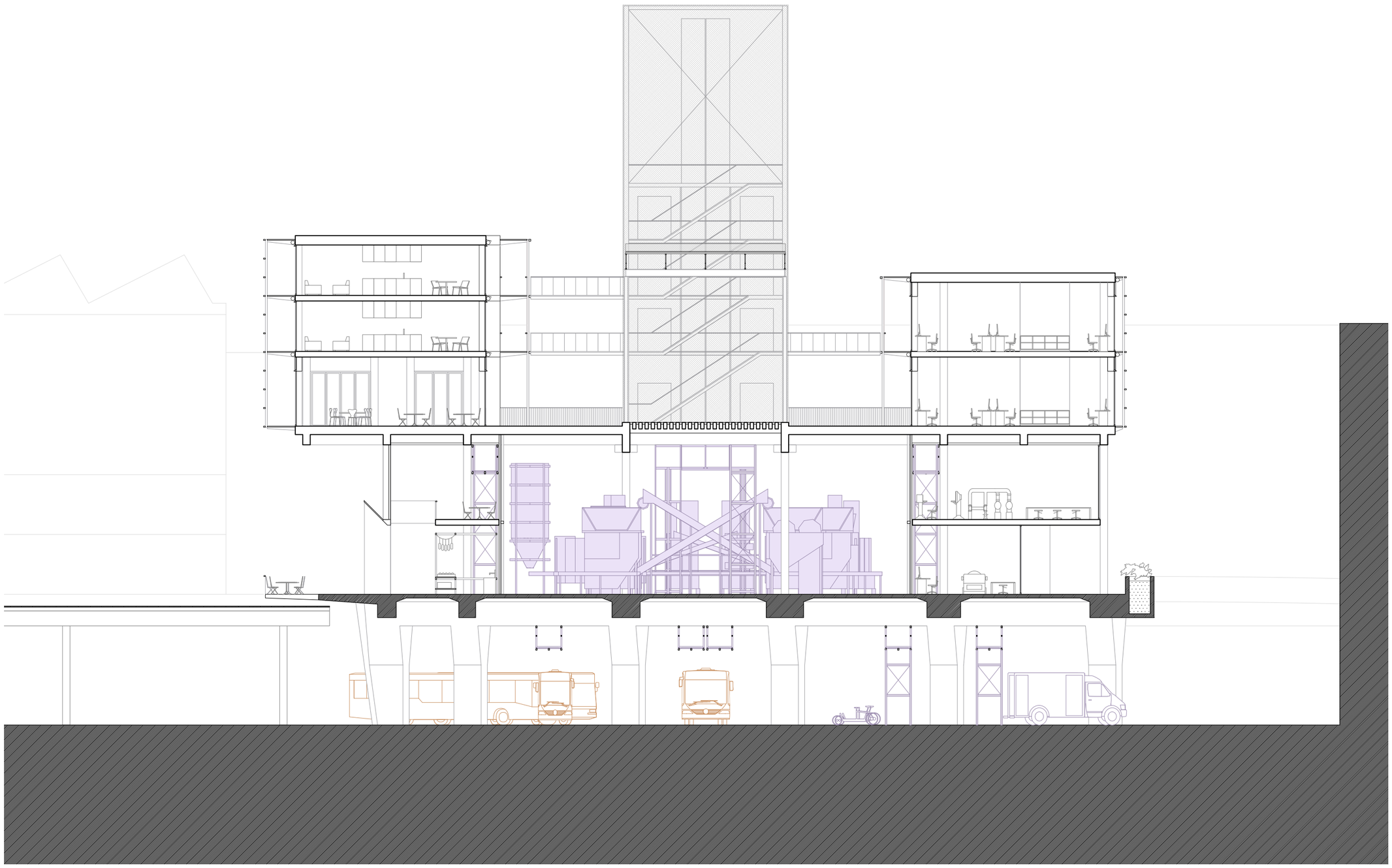
SECTION A-A 1:200



FRONTIER



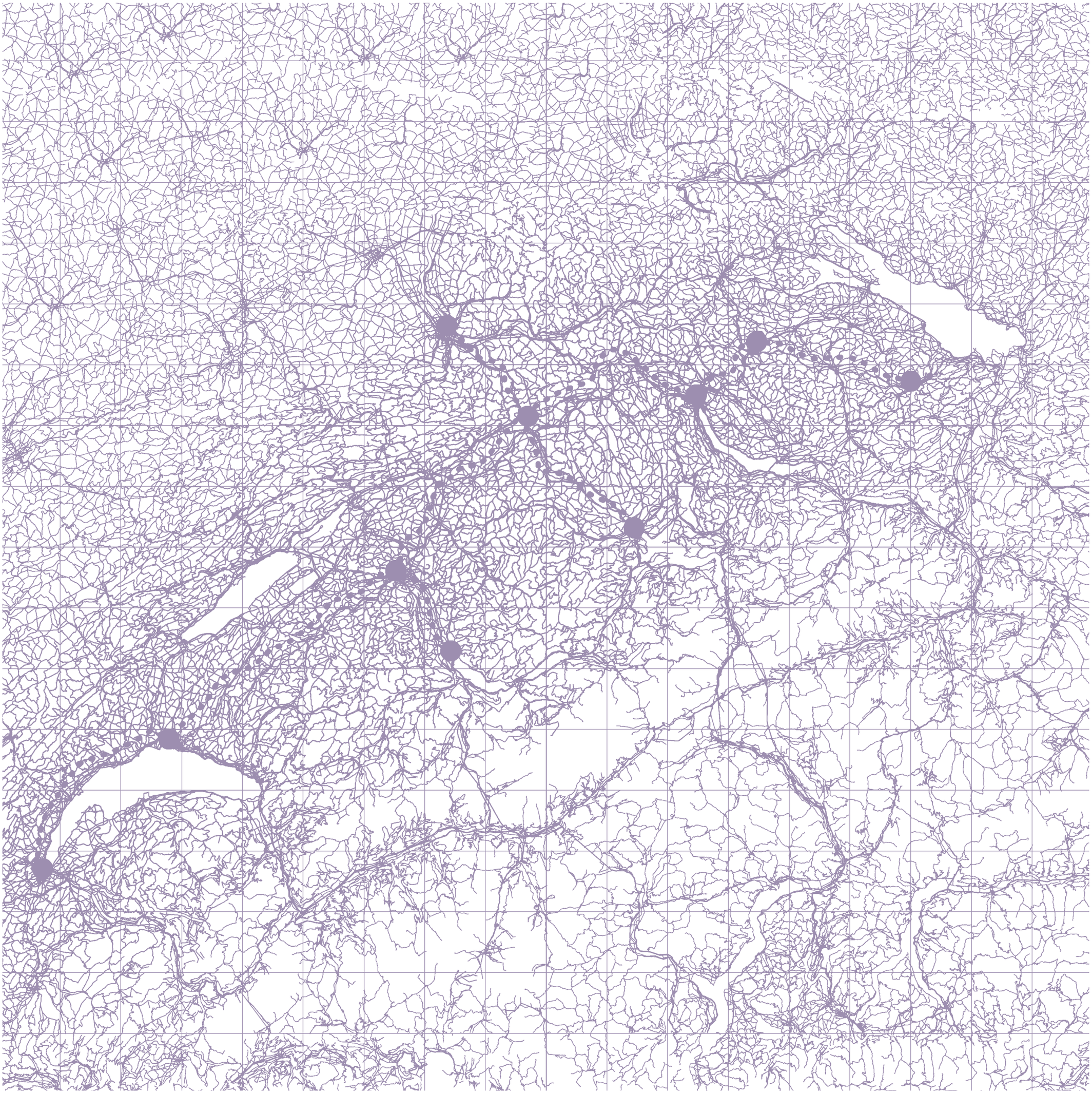
COMMERCIAL/RESIDENTIAL ROOFSCAPE



SECTION Z-Z 1:200

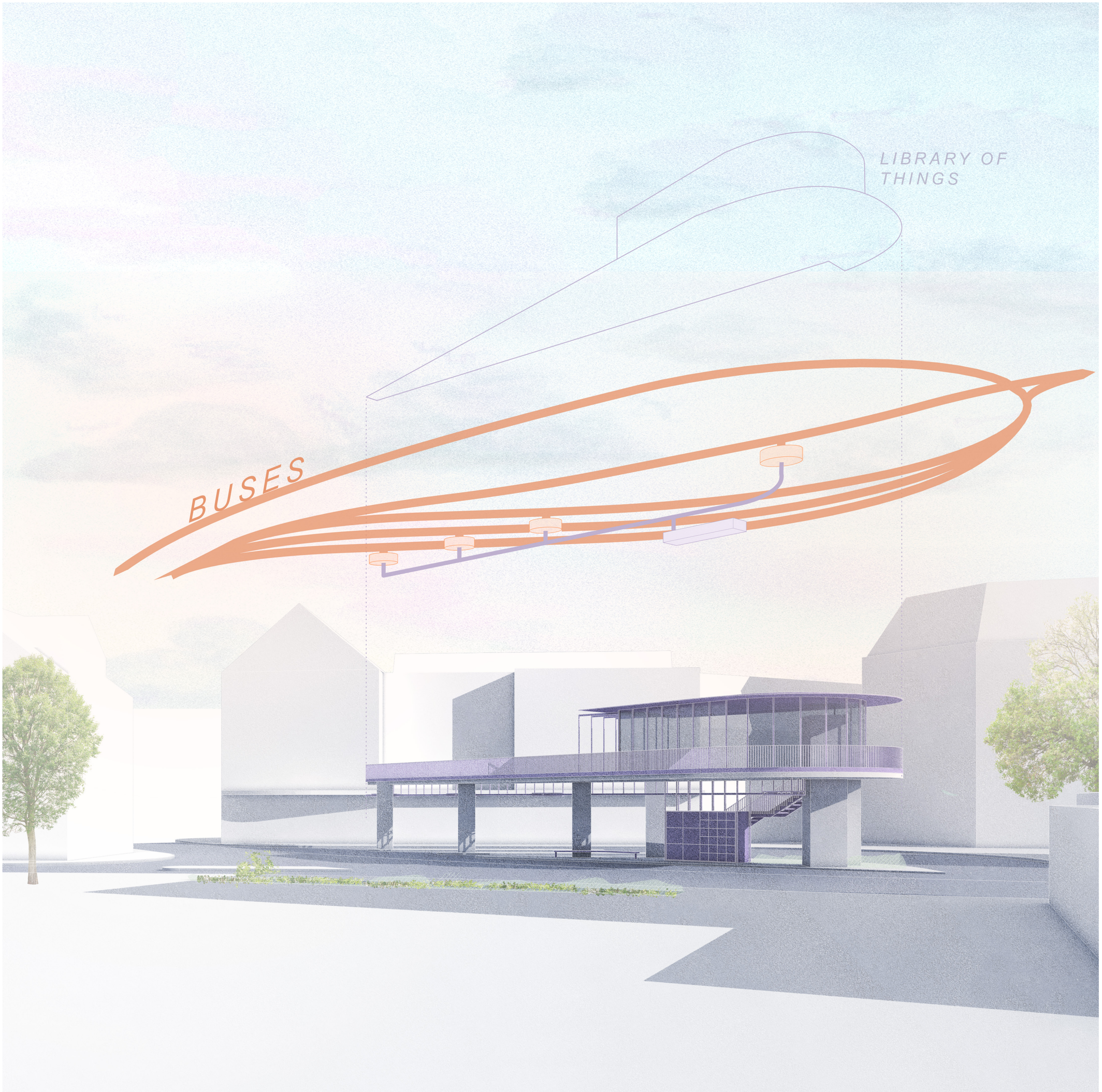
A WOUND THE LENGTH OF SWITZERLAND


Pilatus

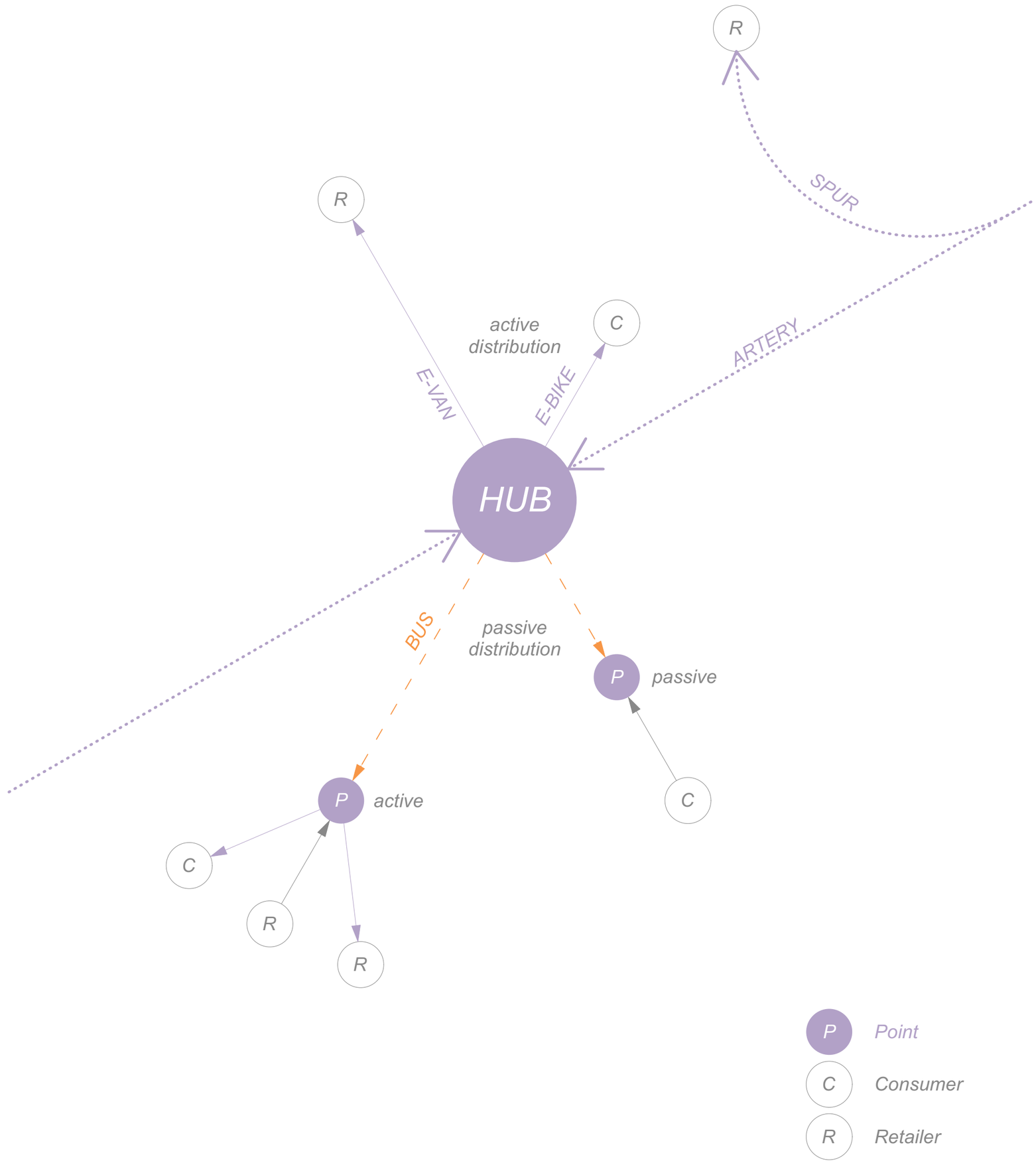


NETZWERK SCHWEIZ

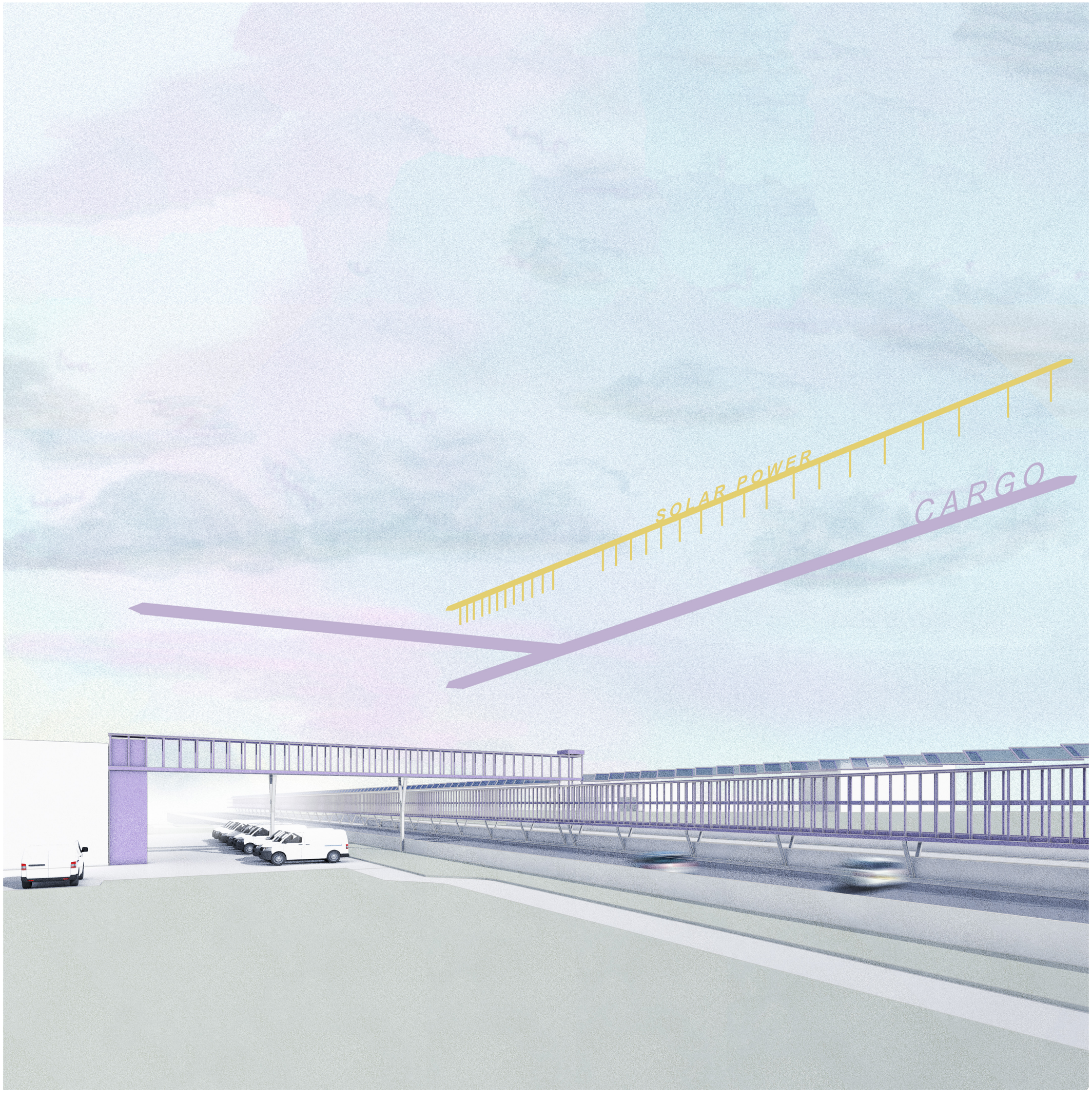
ARTERY



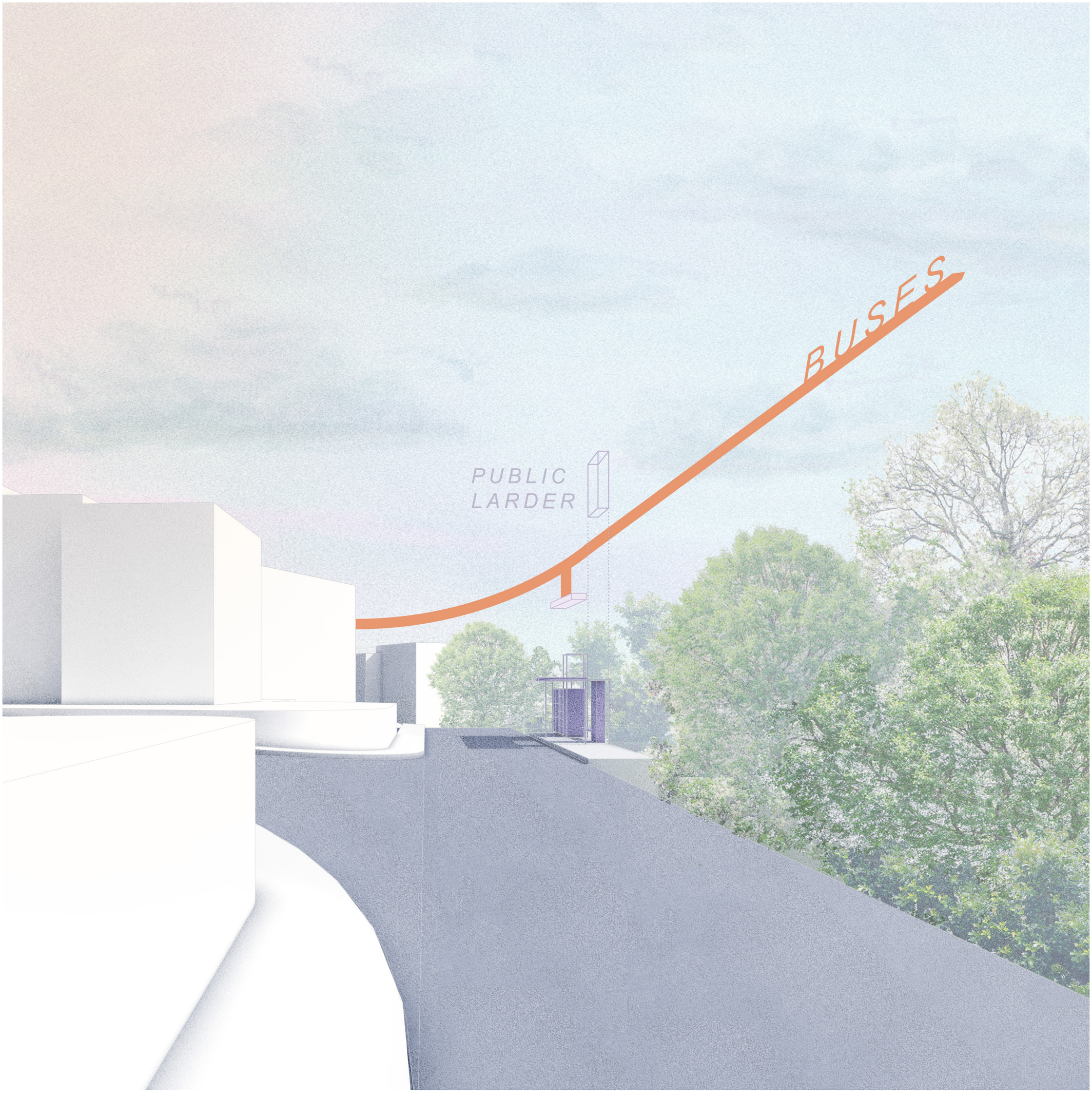
ACTIVE POINT



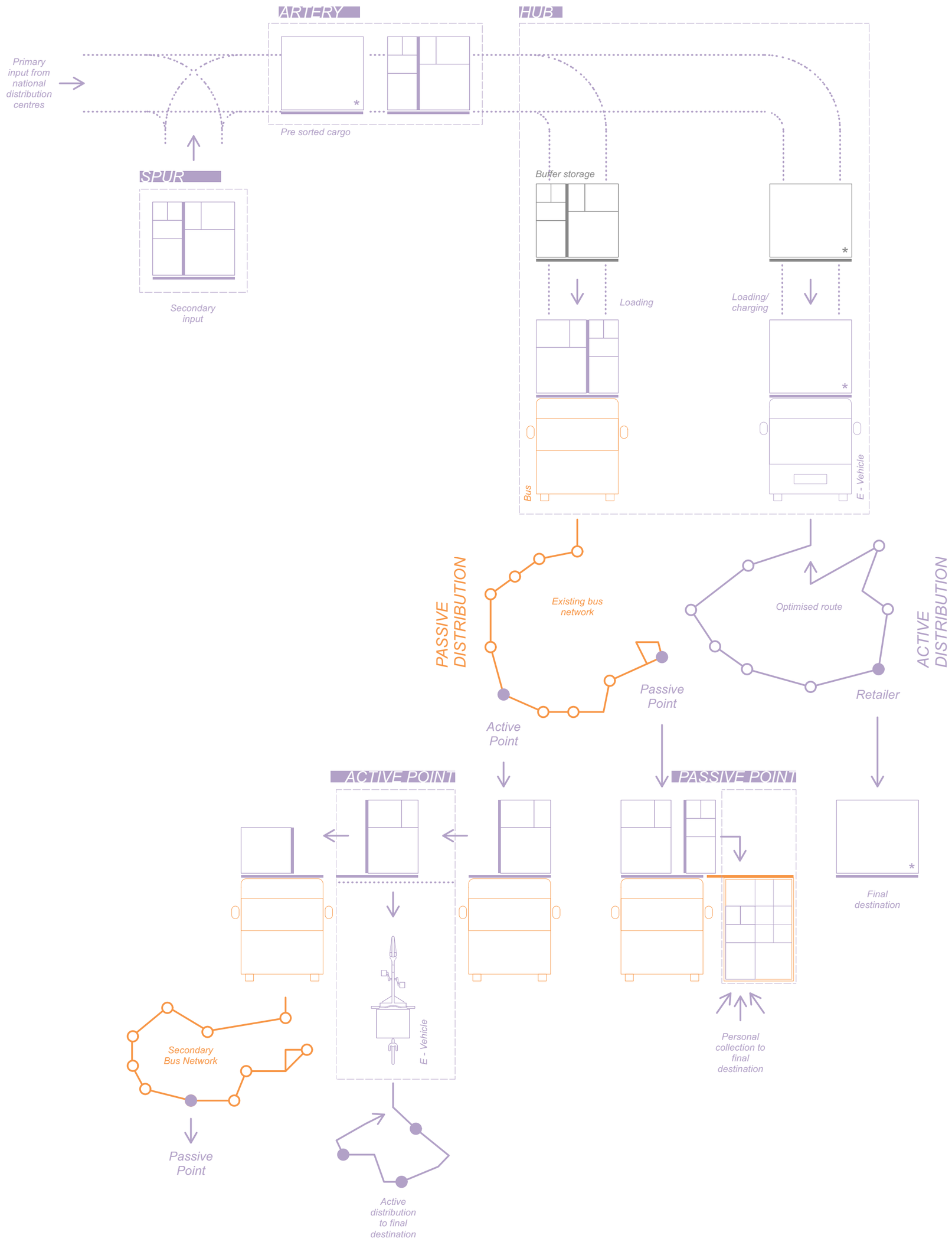
CITY LOGISTICS CONCEPT



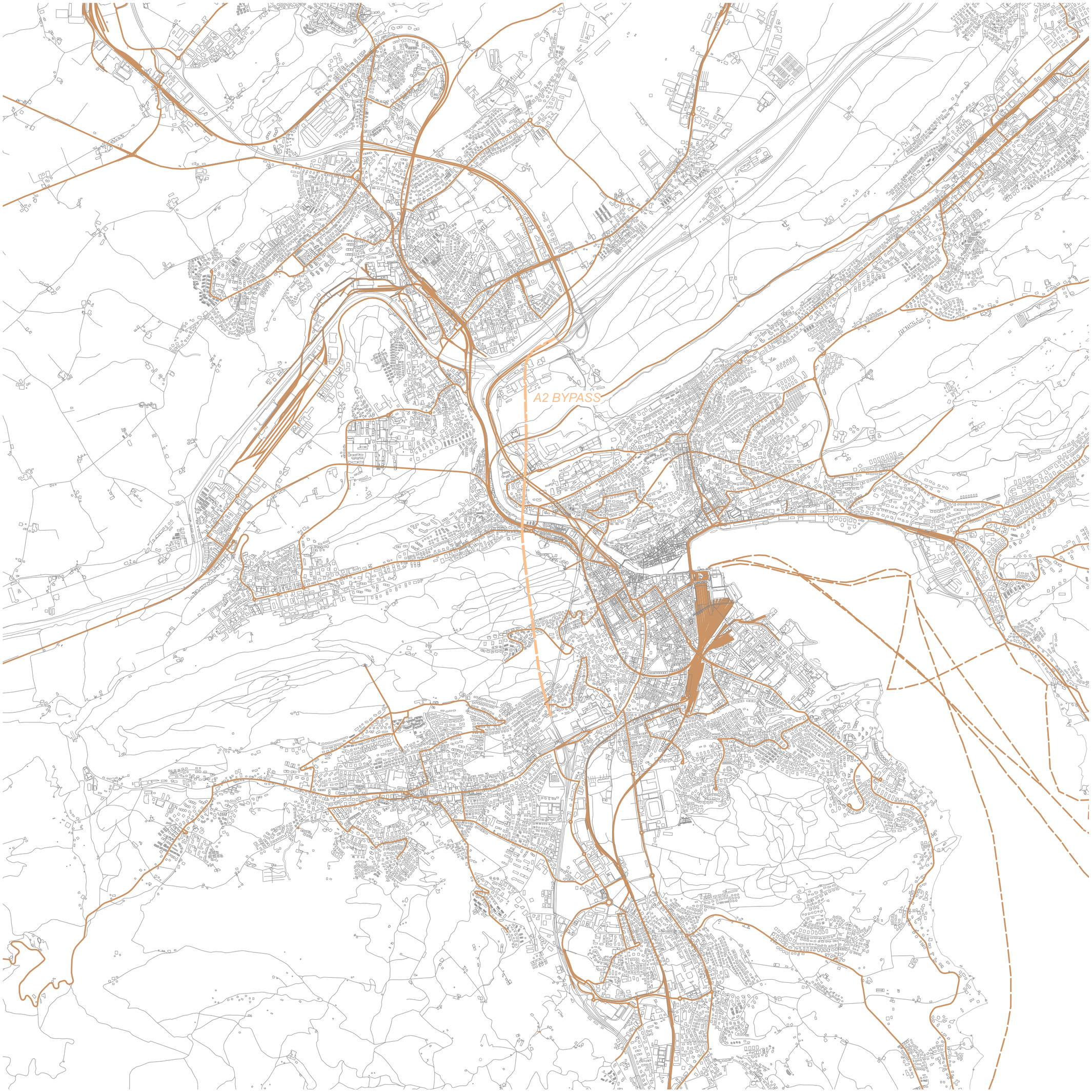
SPUR



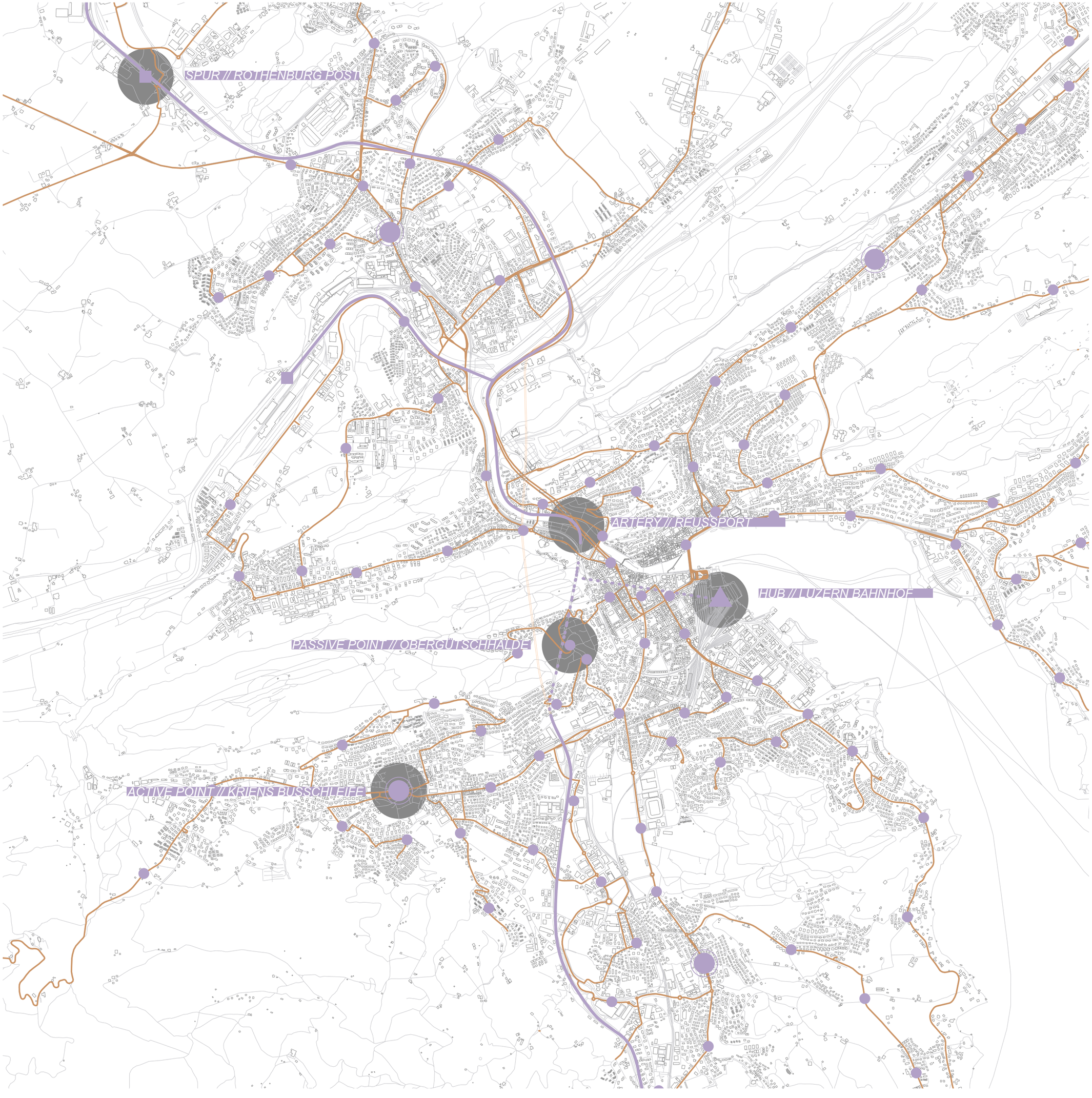
PASSIVE POINT



DISTRIBUTION CONCEPT



NETWORK LUZERN, AS EXISTING



CARGO EN FLUX NETWORK LUZERN, AS PROPOSED

ST GALLEN

BASEL

DISTRIBUTION INFRASTRUCTURE

BUS INFRASTRUCTURE

ROAD INFRASTRUCTURE