

FACULTY OF INFORMATION TECHNOLOGY

DANIEL BAIN STUDIO ACHTEN-PAVLIČEK CZECH TECHNICAL UNIVERSITY PRAGUE // UNIVERSITY OF STRATHCLYDE





CONTENTS

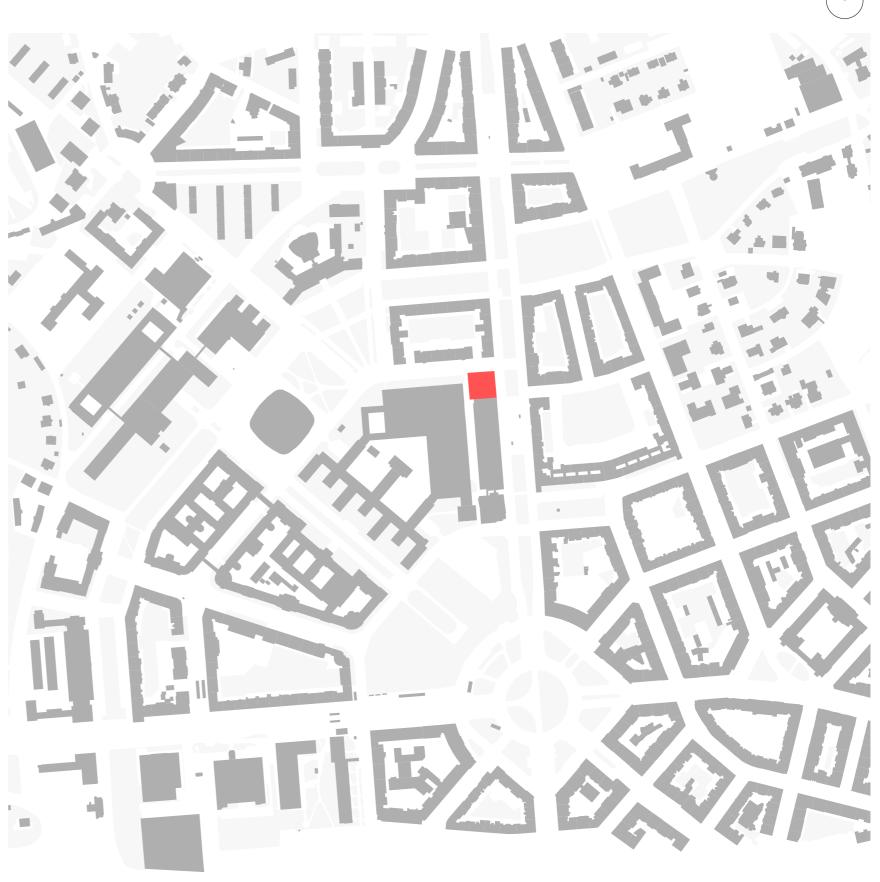
PART 1 - ANALYSIS PAGES 3 - 9

PART 2 - DESIGN PAGES 10 - 20

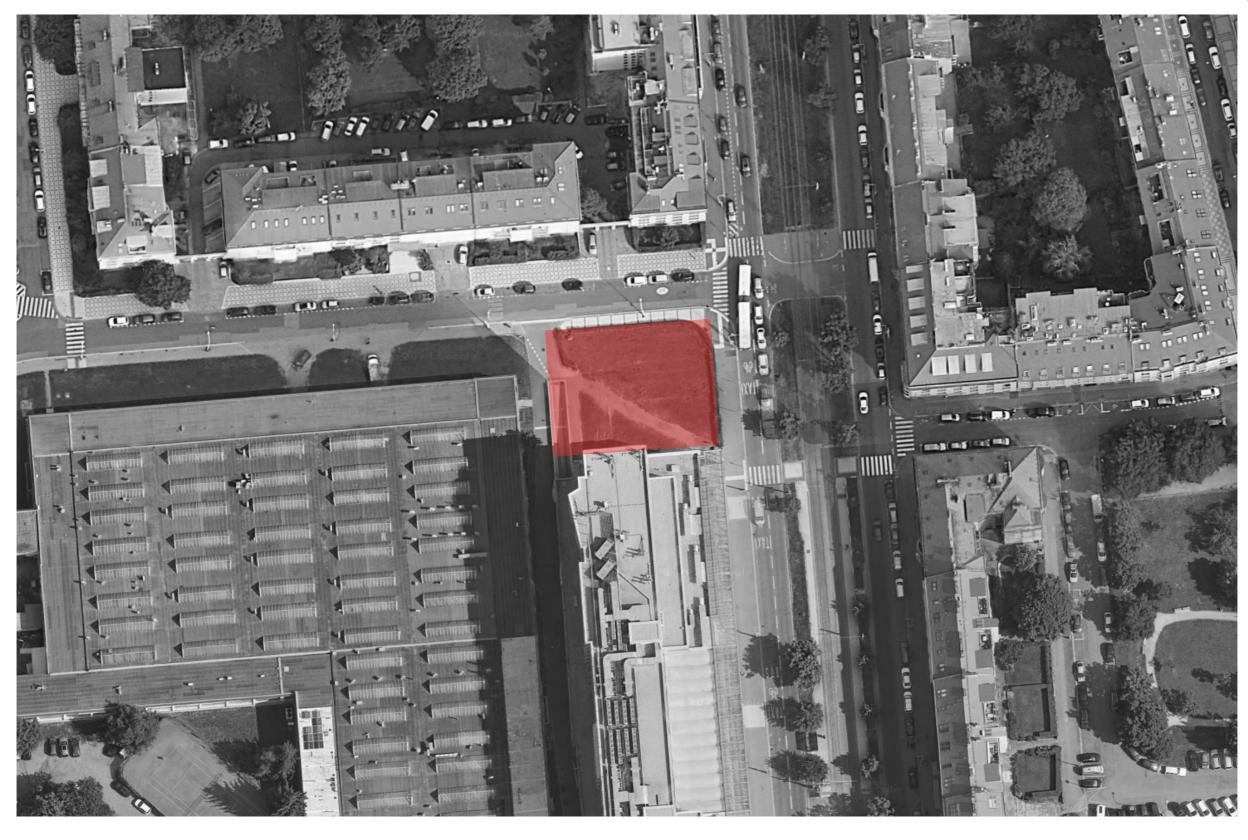
PART 3 - VISUALS PAGES 21 - 29



THESITE

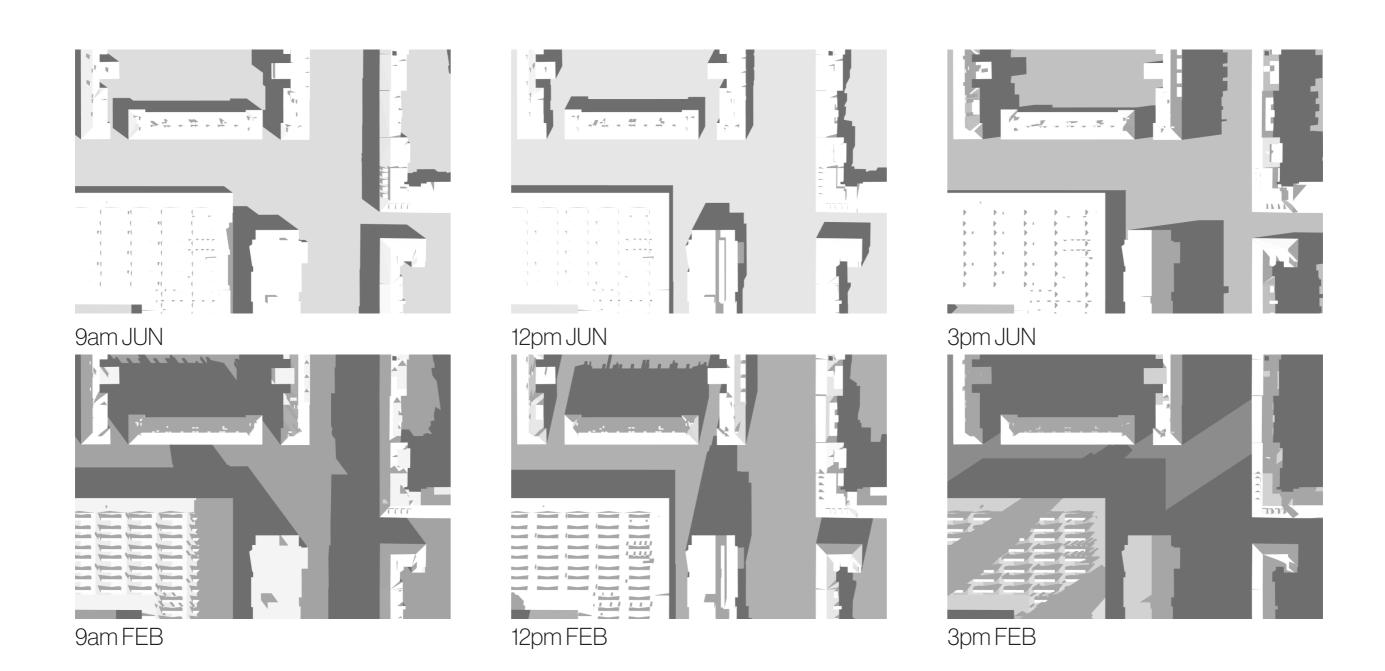






ANALYSIS - SITE LOCATION

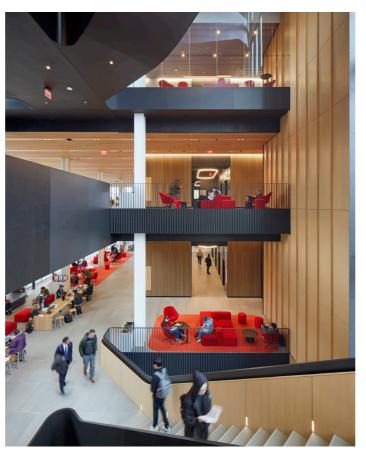




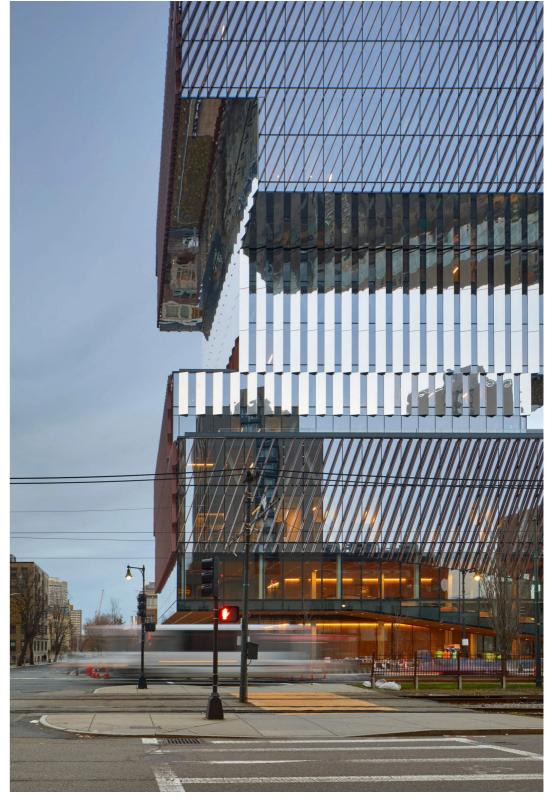
Centre for Computing & Data Sciences

Architect - KPMB
Location - Boston, United States of America
Client - Boston University
Date - 2022

The Centre for Computing & Data Sciences at Boston University is a landmark for the university. It transforms the skyline, meets laudable sustainability goals, and prioritizes human-centred design, maximizing collaboration and interconnectivity. The project brings together the mathematics, statistics, and computer science departments, building community among the 3000 students, faculty, and staff. Realized as a vertical campus. The state-of-the-art building includes 12 classrooms, two computer labs, a cafe on the ground floor, numerous collaboration spaces, and a plaza with a covered bike shelter. The stacked campus culminates in an event space and a three-story-high open-air pavilion. Green roofs and terraces are located throughout the Center to connect students, faculty, and staff to the natural environment, and offer views of the city.





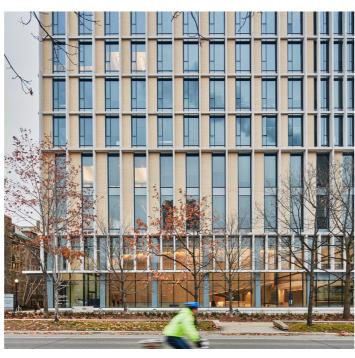


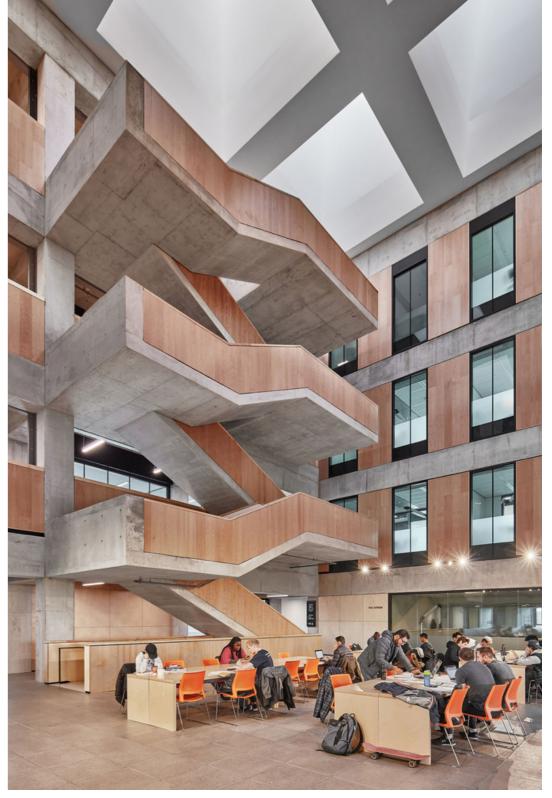
Myhal Centre for Engineering, Innovation & Entrepreneurship

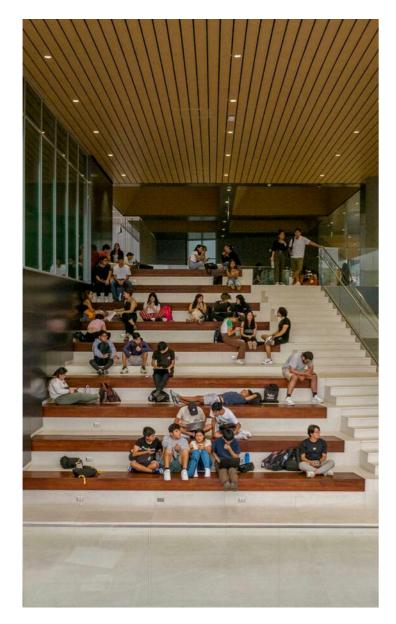
Architect - FCB Studios Location - Toronto, Canada Client - University of Toronto Date - 2018

The cross disciplinary research and teaching hub caters to the university's wide-ranging engineering disciplines. Designed to enable group work outside the traditional seminar room, it provides dynamic, flexible environments that break down artificial barriers between people, foster collaboration, encourage active learning and accelerate innovation. Teaching spaces include a sophisticated 500 seat collaborative lecture theatre, workshop and Lab spaces, innovation incubator suites allied to industry presence rooms. At the heart of the building are social learning spaces and a cafe.



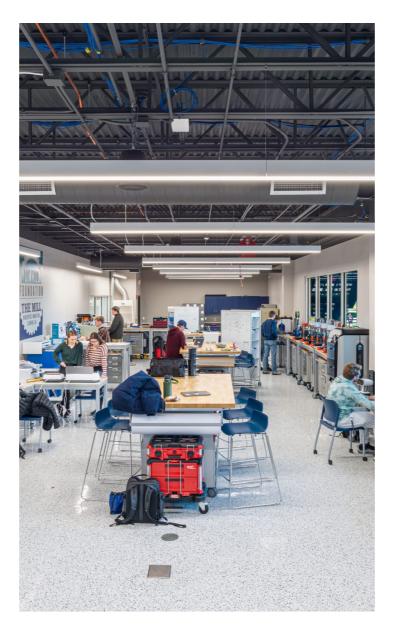






Collaborative and Social Spaces

The future of education is collaborative, emphasizing teamwork, communication, and creativity. To facilitate this, higher education architecture is embracing informal gathering spaces. These areas are designed to foster interaction among students, faculty, and researchers, enabling cross-disciplinary collaboration and nurturing a sense of community.



Flexibility and Adaptability

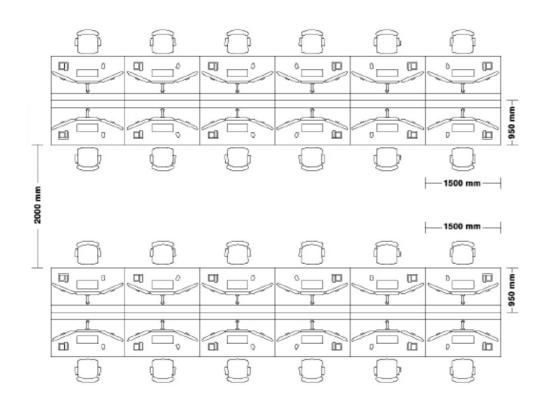
Gone are the days of rigid, one-size-fits-all class-rooms. The future of higher education architecture revolves around flexibility and adaptability.

Moveable walls, modular furniture, and convertible spaces are becoming staples, allowing educators to create dynamic learning environments that cater to evolving educational needs.



Sustainability and Eco-Friendly Design

With the pressing need to address climate change, sustainability is becoming a core principle in higher education architecture. Campuses are increasingly adopting eco-friendly practices, incorporating energy-efficient buildings, solar panels, rainwater harvesting, and green roofs. These measures not only reduce the carbon footprint but also provide tangible examples of sustainable practices for the entire community.





We teach

20 bachelor's and master's specializations We teach through

2,300 students

We solve

46 scientific projects

We have

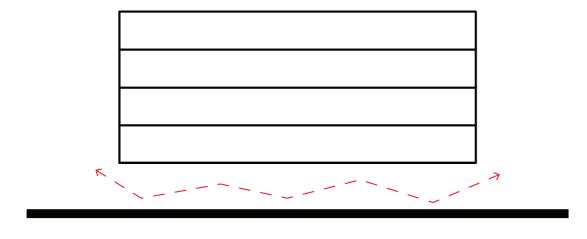
13 research groups

We are home

21 laboratories

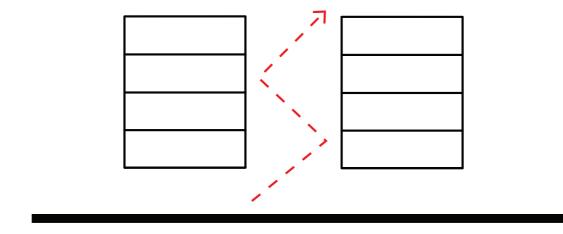
We consist of

6 department



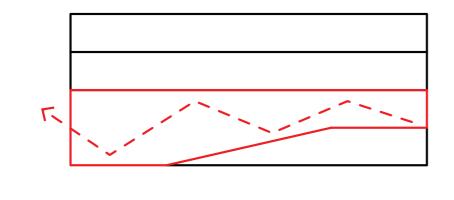
PUBLIC SPACE

The ground floor of my building should be inviting and allow for the general public to access spaces such as the cafe and aula



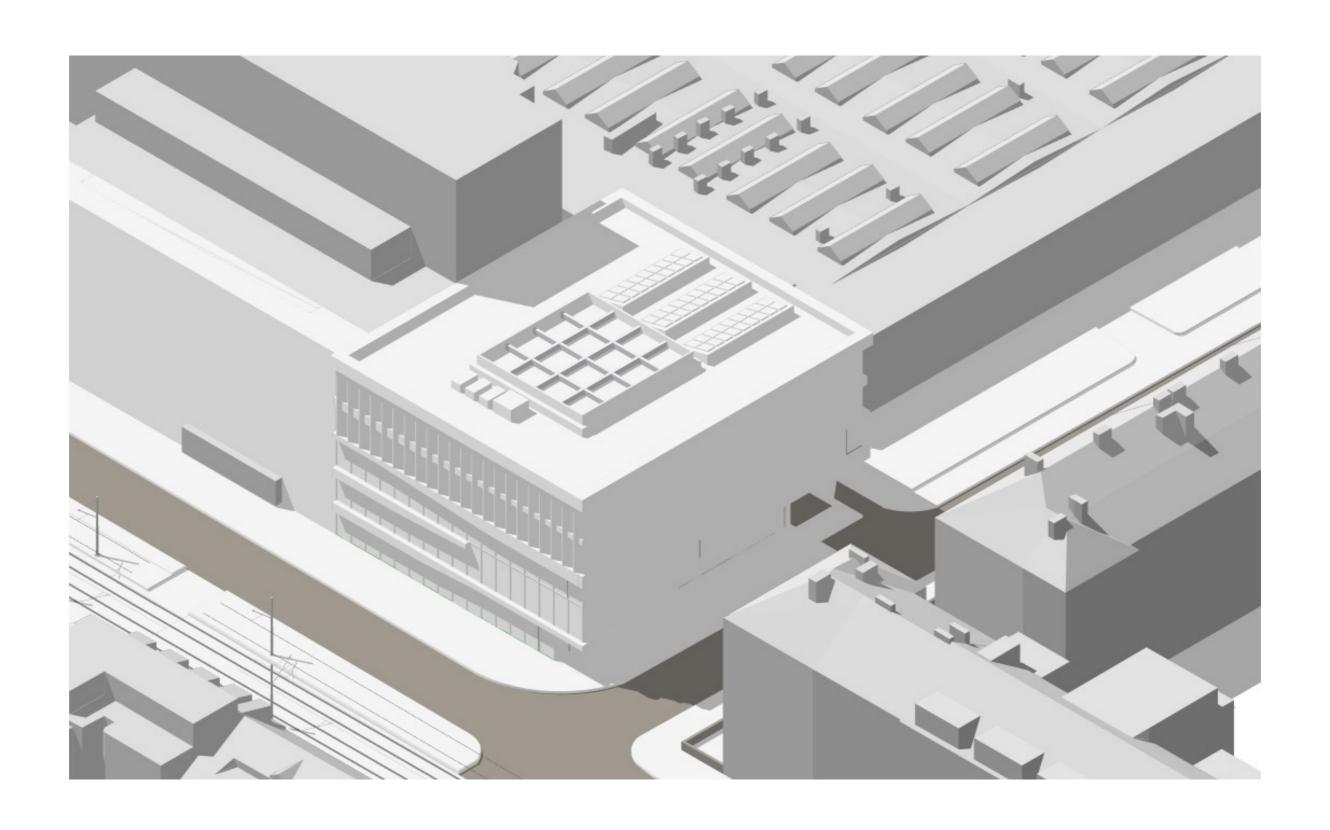
VERTICAL COMMUNICATION

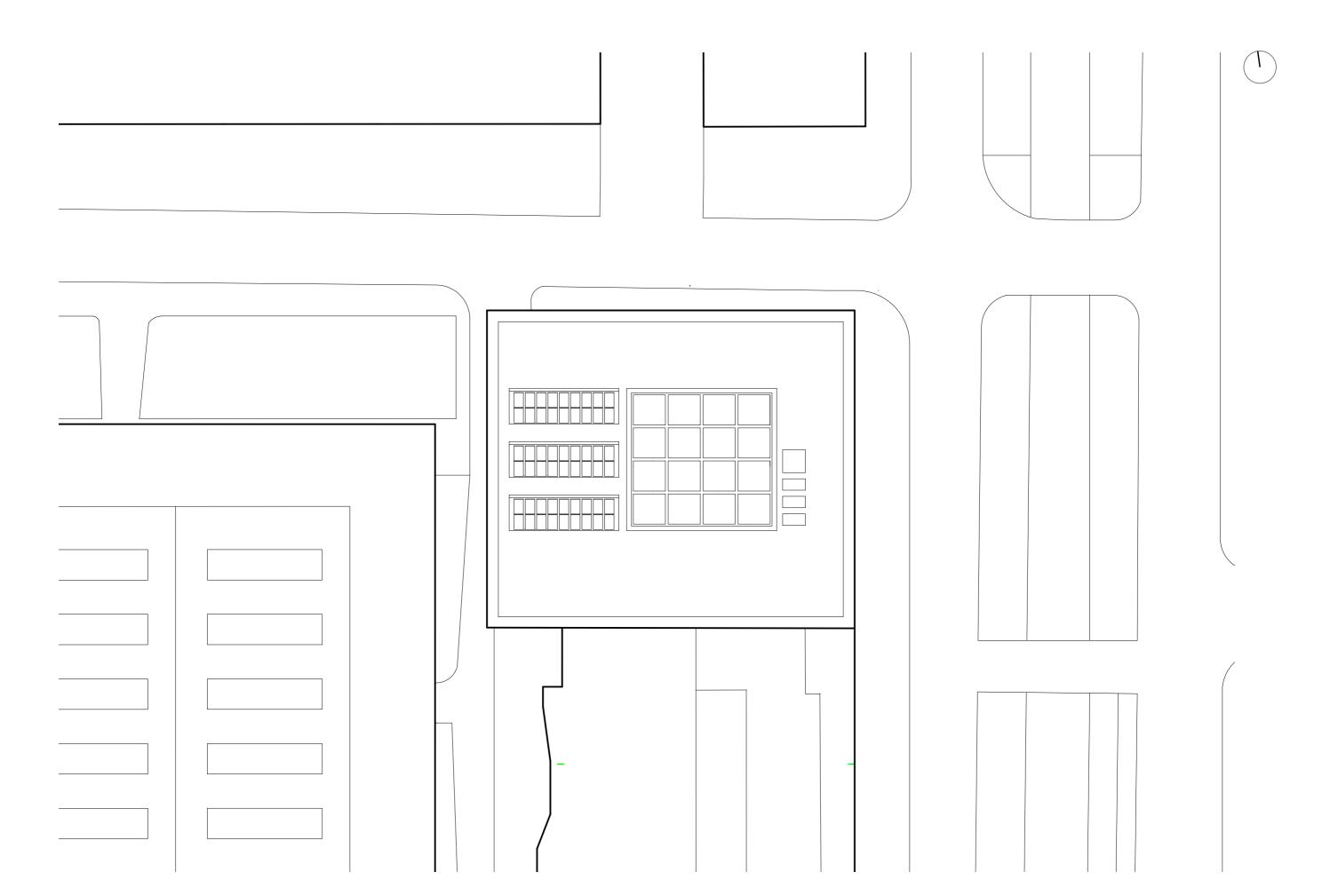
A central void will allow for natural light into an increased number of spaces, and also keeps the building simple in manouvering

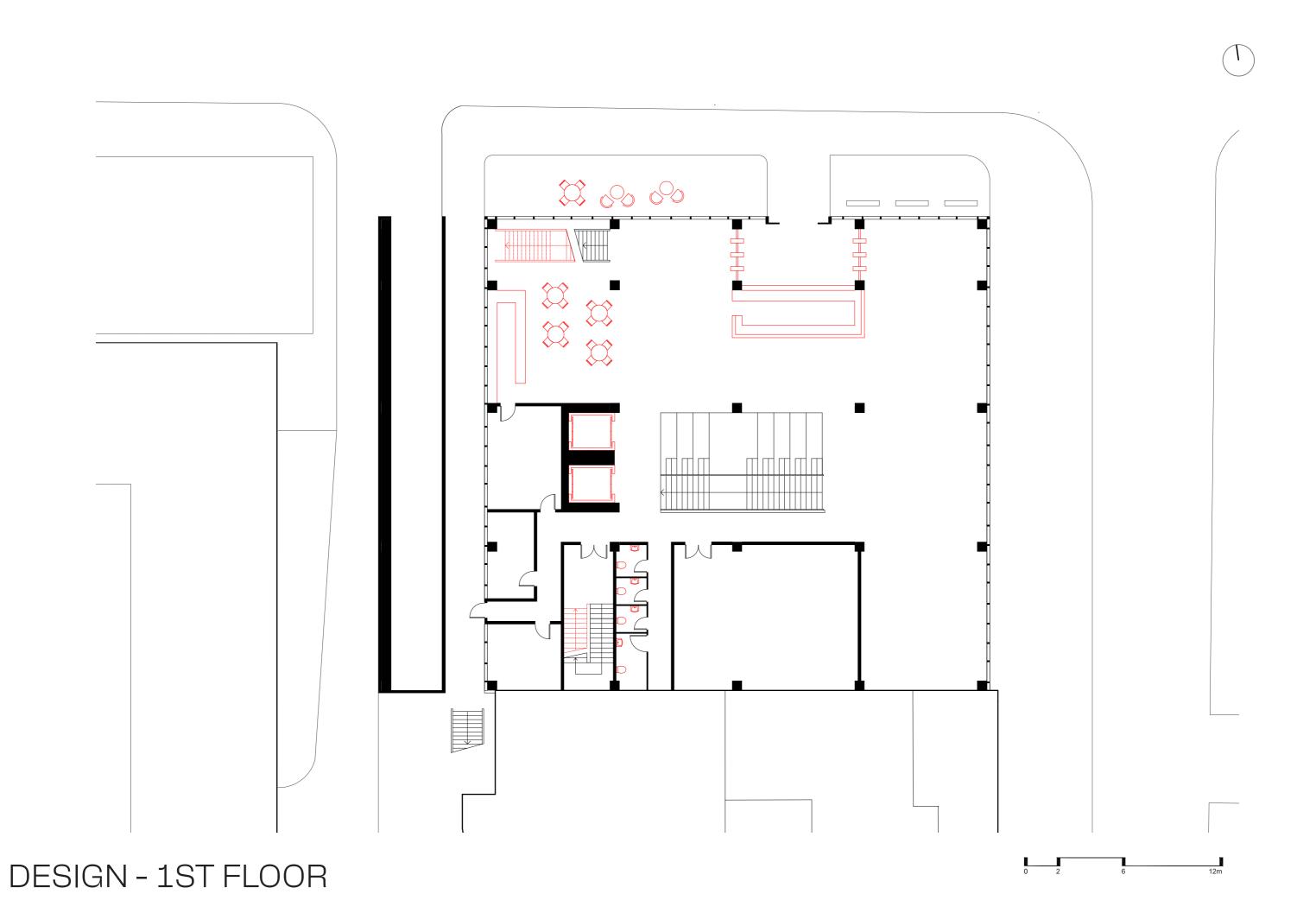


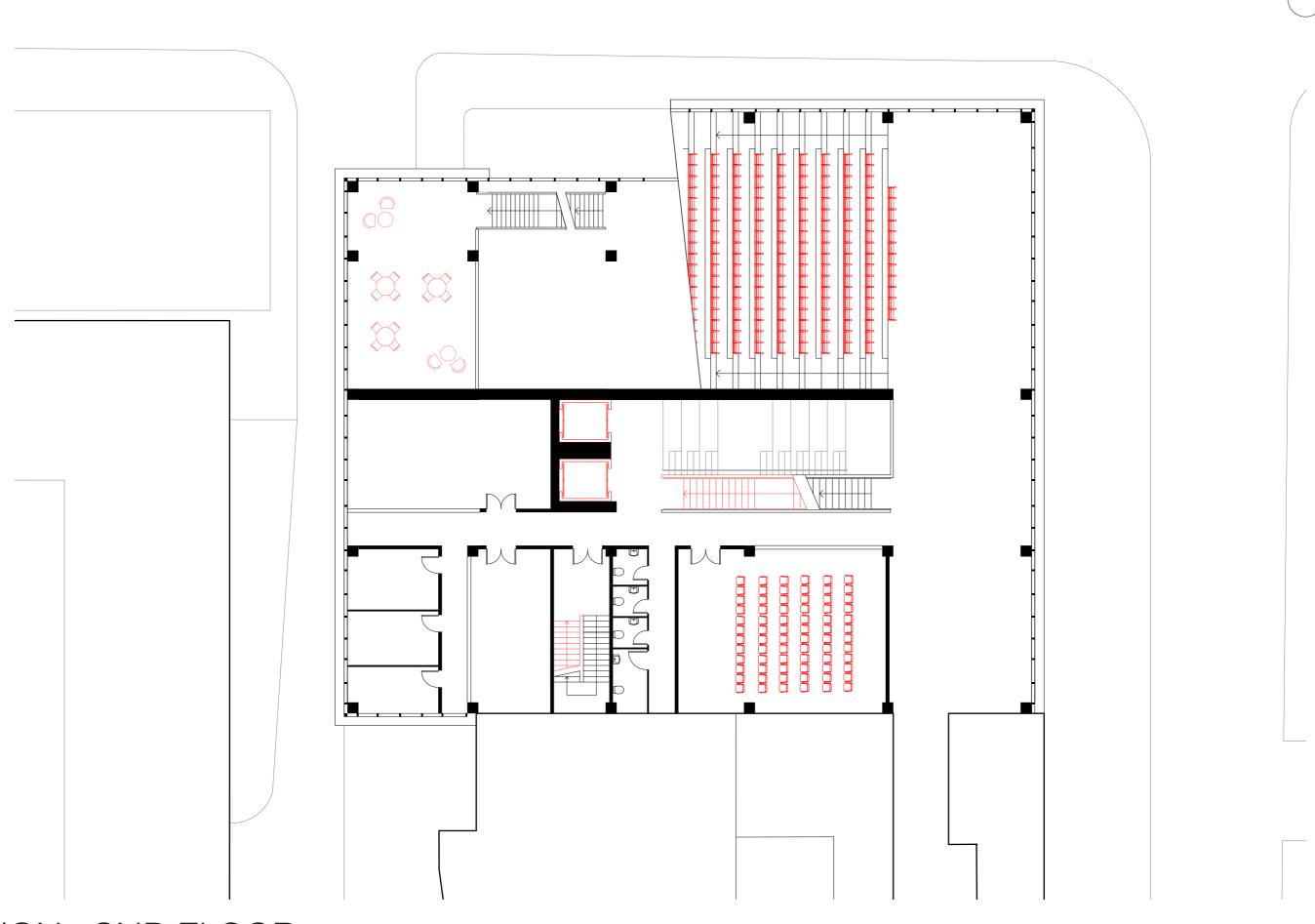
AULA SHAPE

The main aula space is crucial and dictates my design. With where I plan on positioning the space it will allow for street views, internally and externally



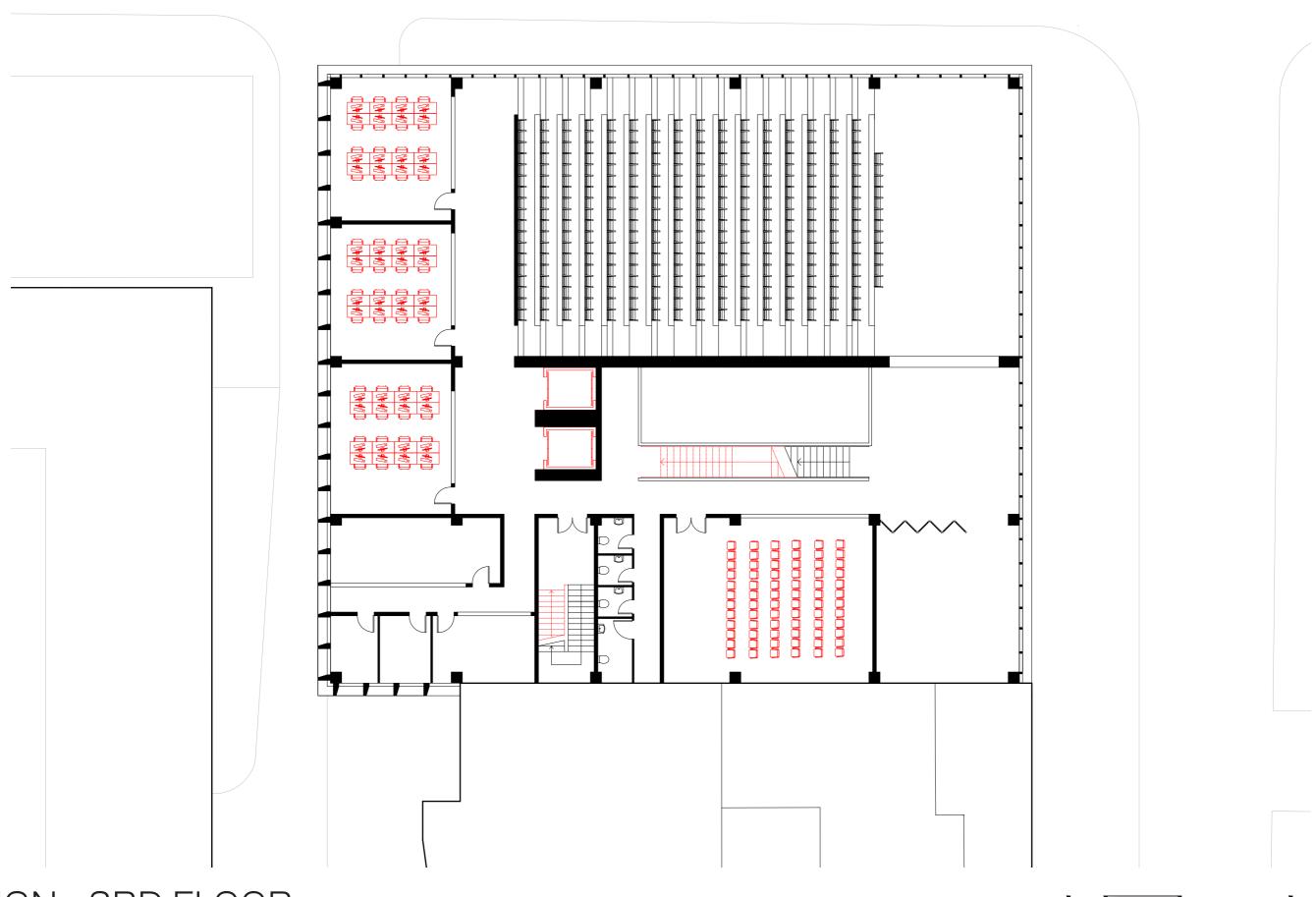






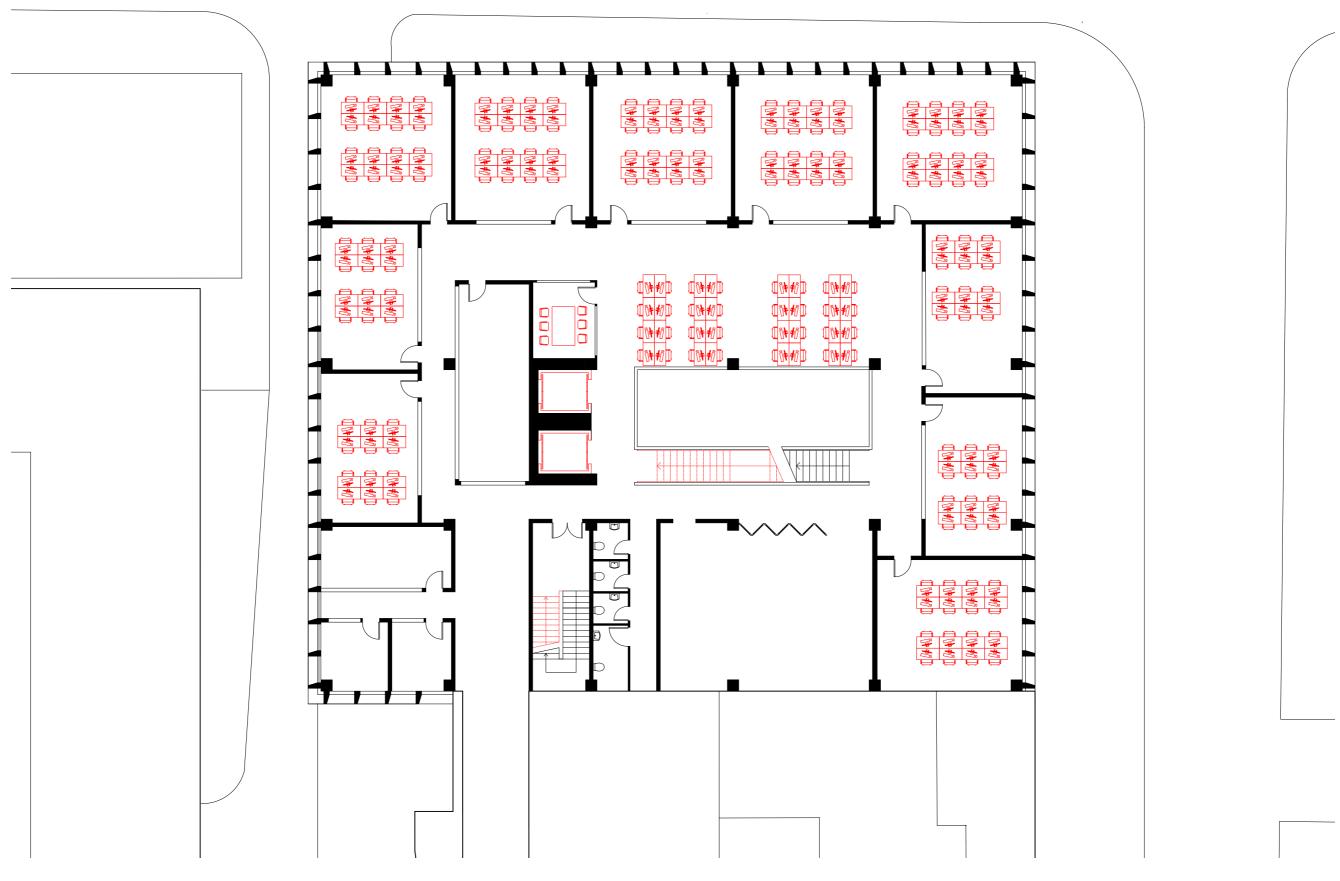
DESIGN - 2ND FLOOR





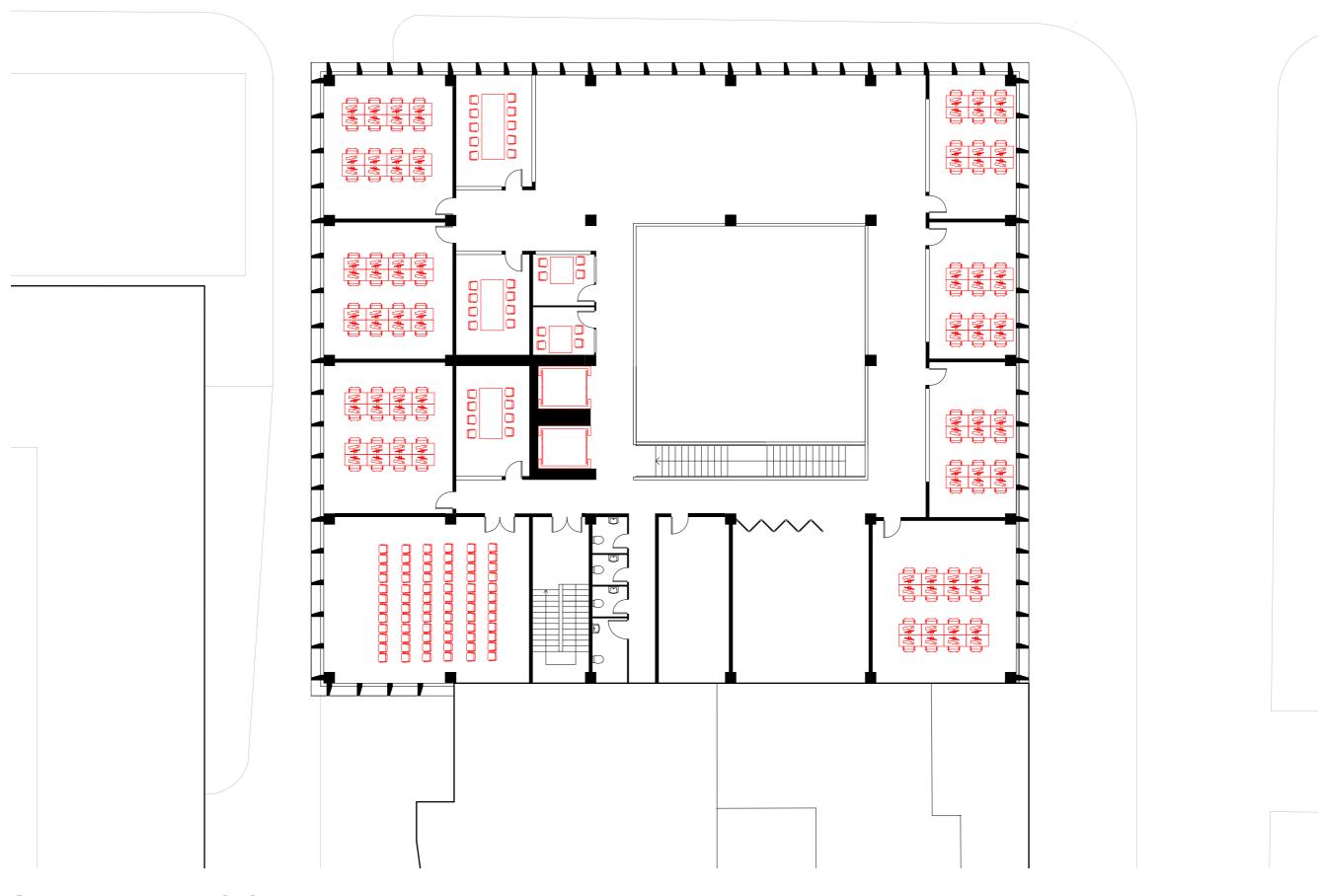
DESIGN - 3RD FLOOR



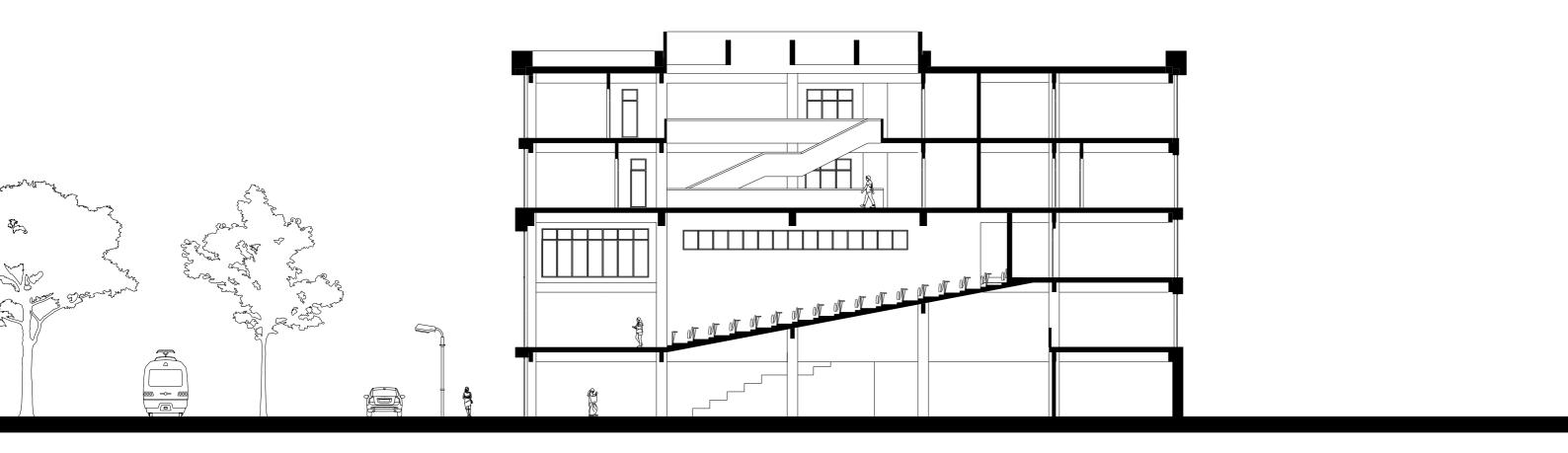


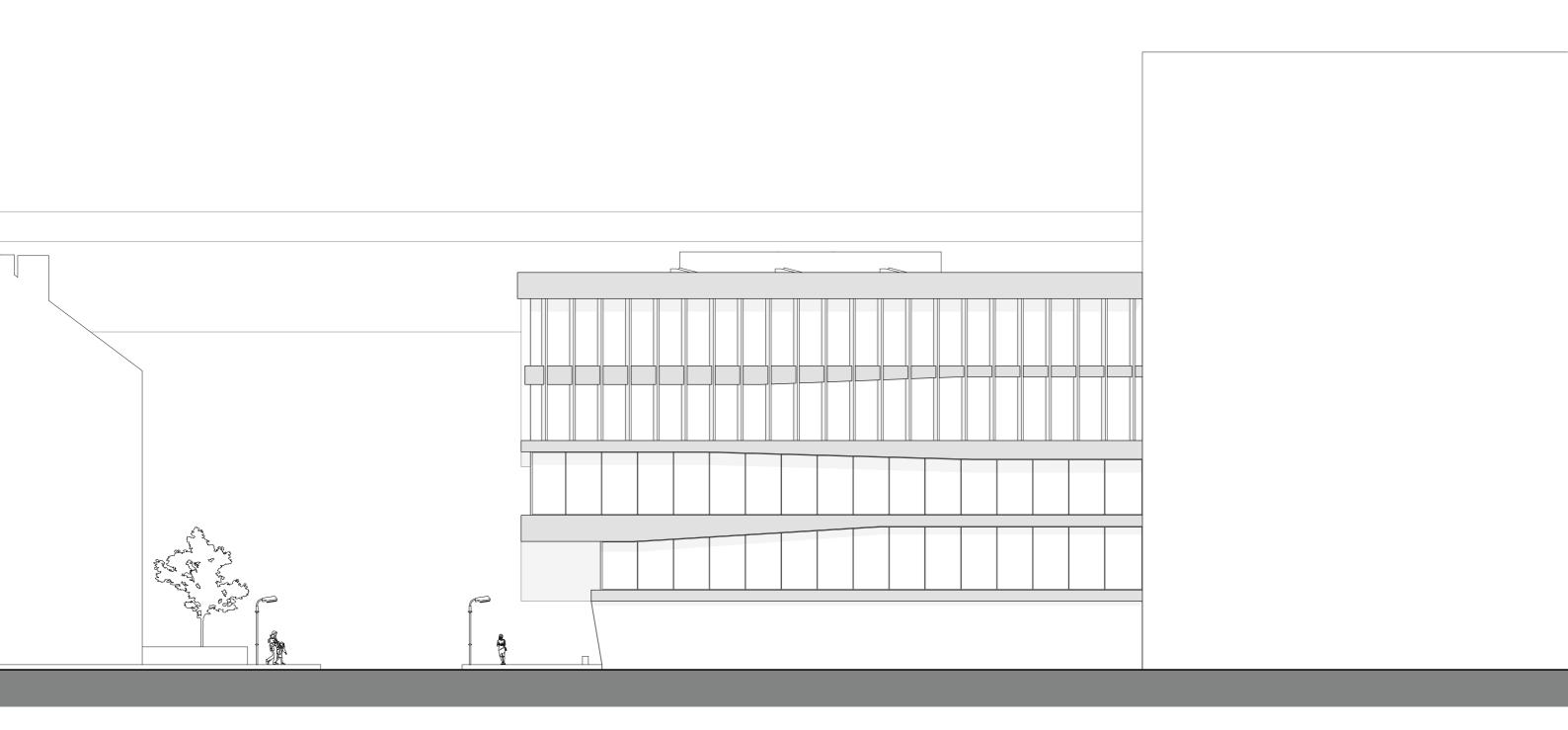
DESIGN - 4TH FLOOR



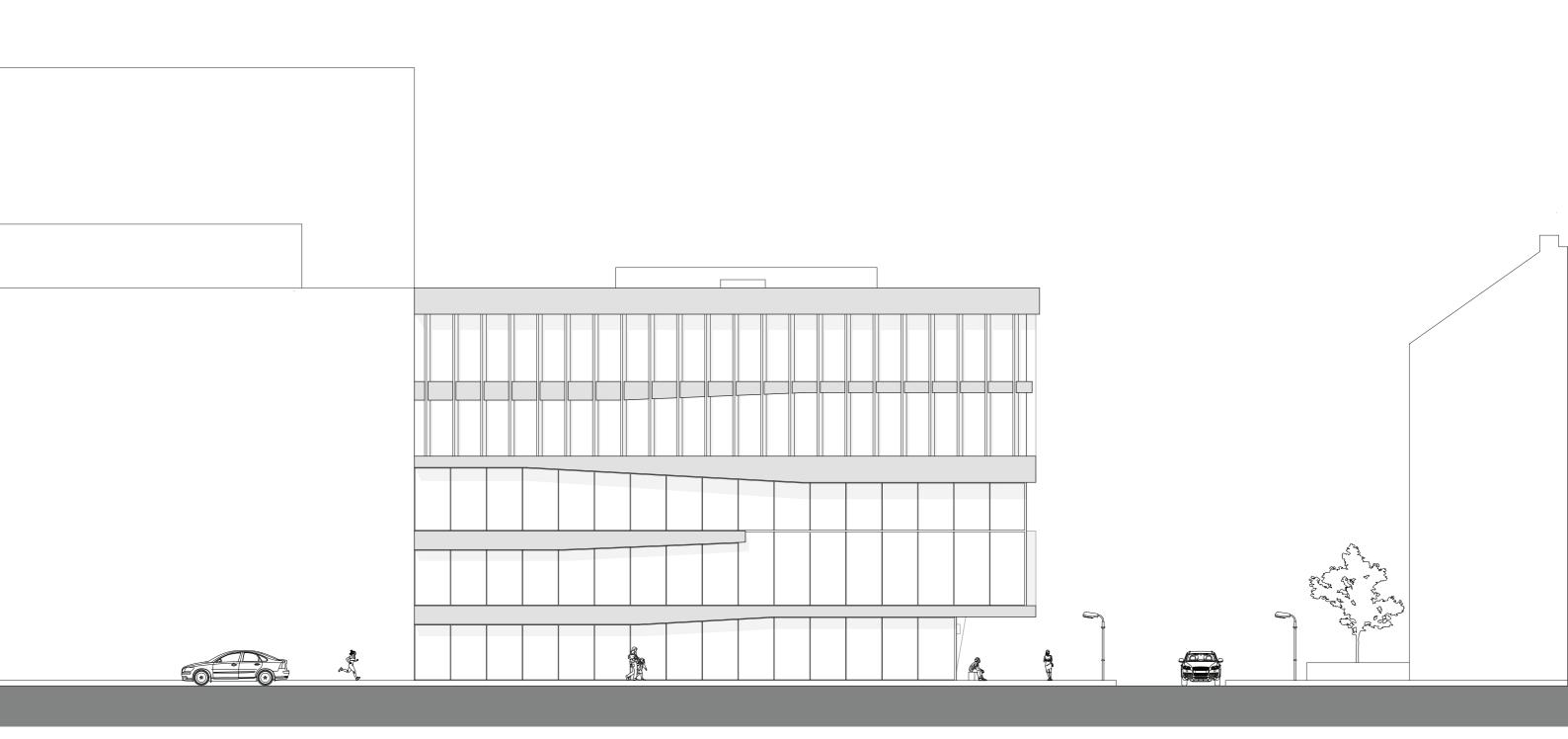


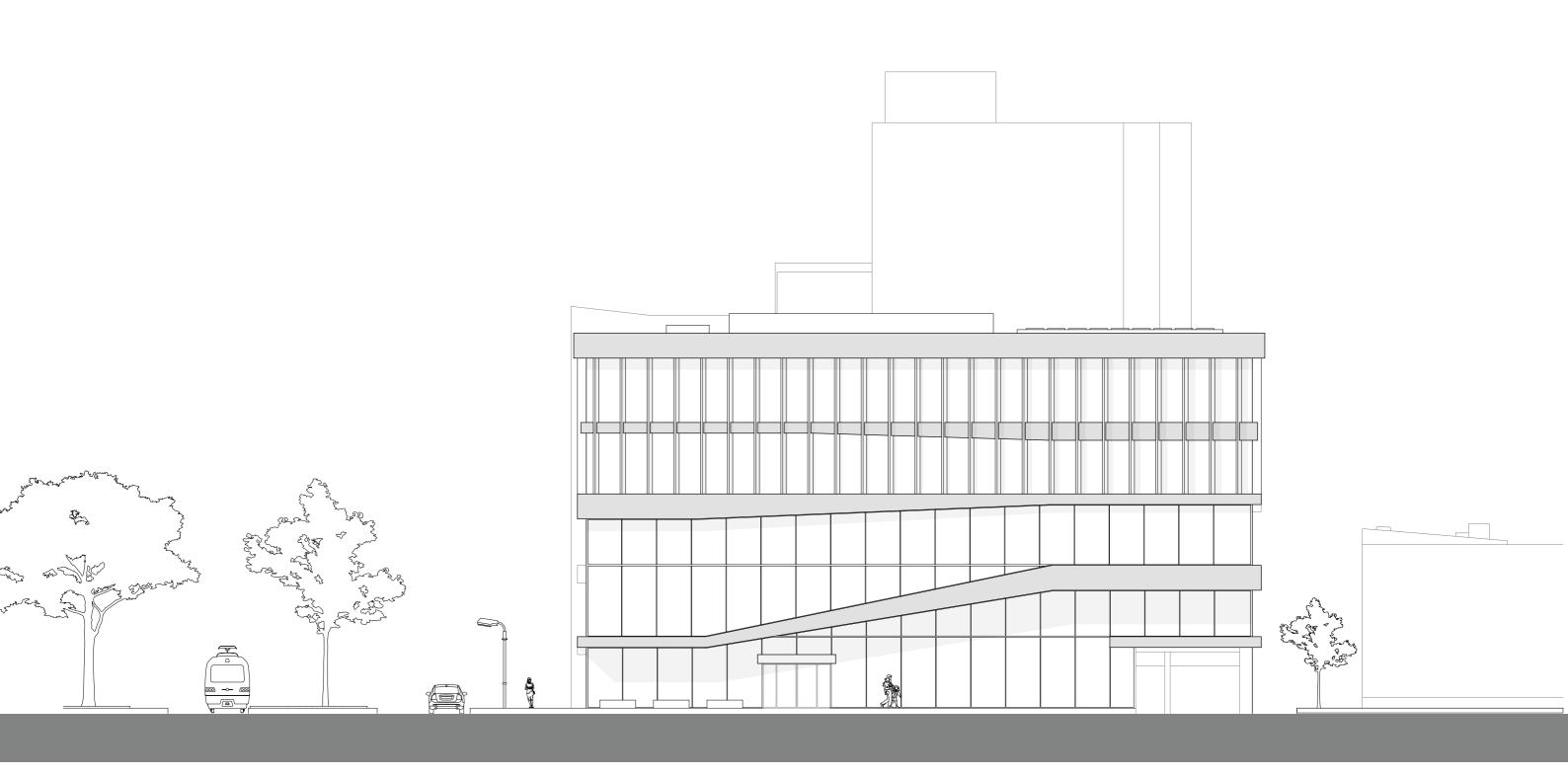
DESIGN - 5TH FLOOR







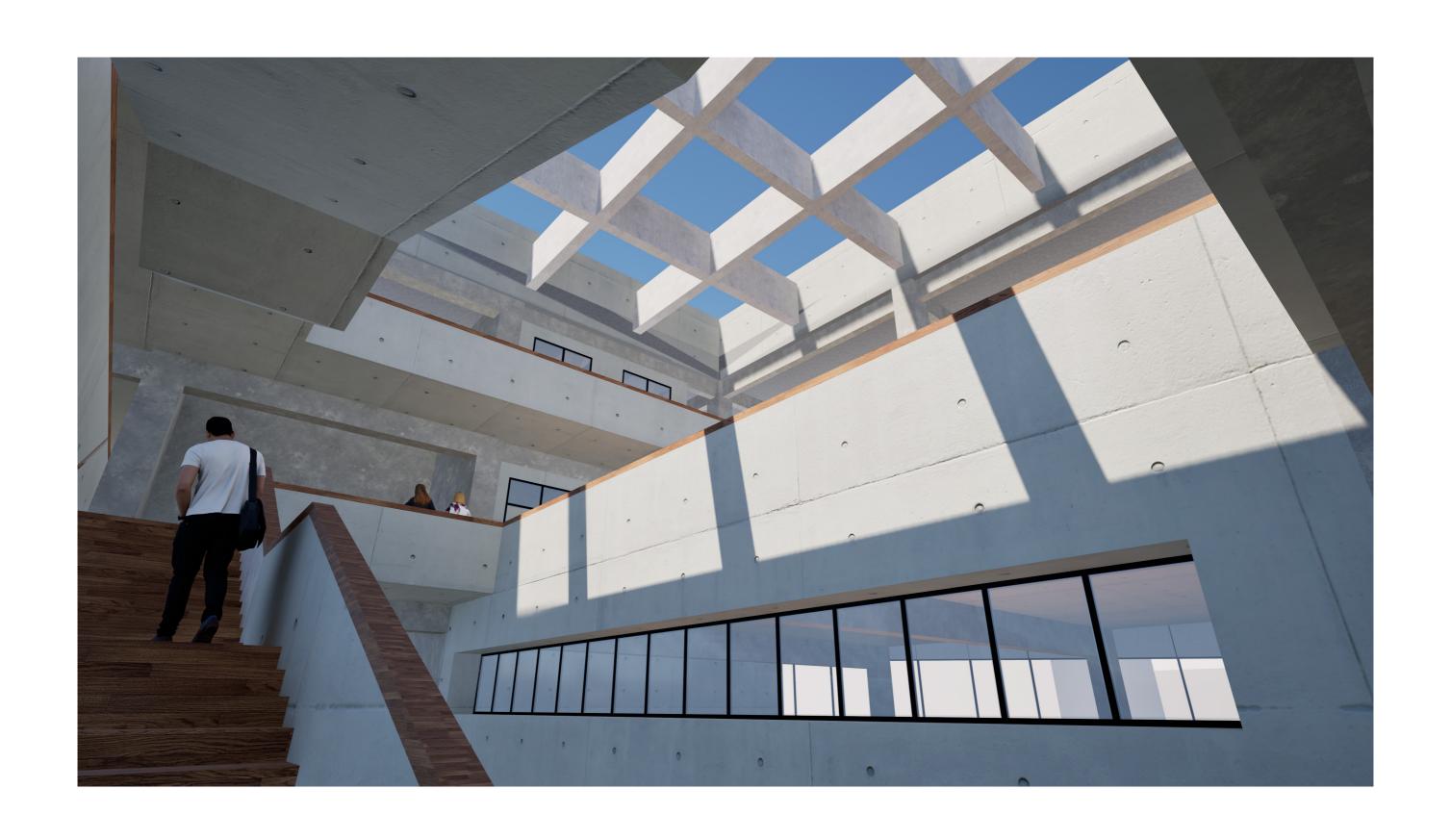












VISUALS - VERTICAL COMMUNICATION









VISUALS - ENTRANCE SPACE



