

HENRY VON RINTELEN

PORTFOLIO 2025



Hello!

I am a 5th-year B.Arch student graduating from Carnegie Mellon University.

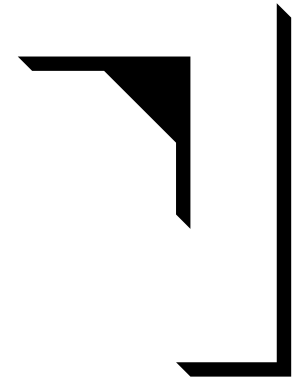
At school, I learned that architecture is, to say the least, complicated. Many influences from economics and technology to aesthetics and social responsibility affect our work. None of these alone makes good project, but maybe the dexterous management of their interplay does.

While the projects in my portfolio may not master that interplay, I hope they show an interest and commitment to its exploration. I am committed to that dexterity's continual improvement as I enter practice.

I hope you enjoy this sample of my work.

-Henry

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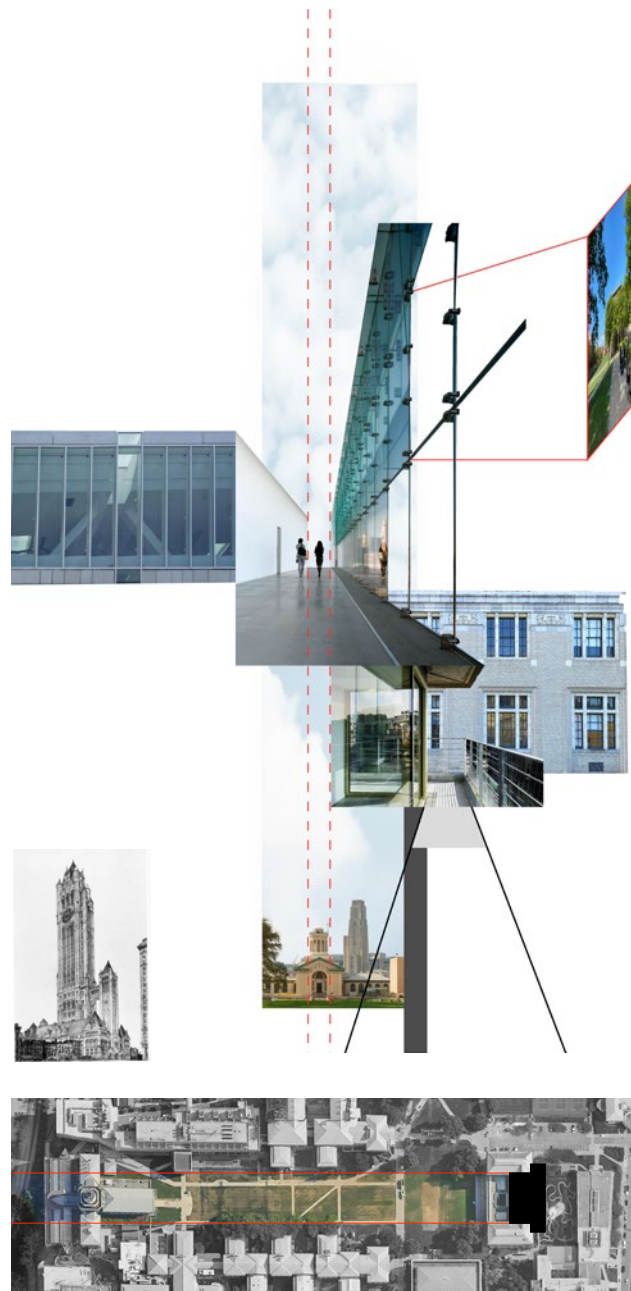
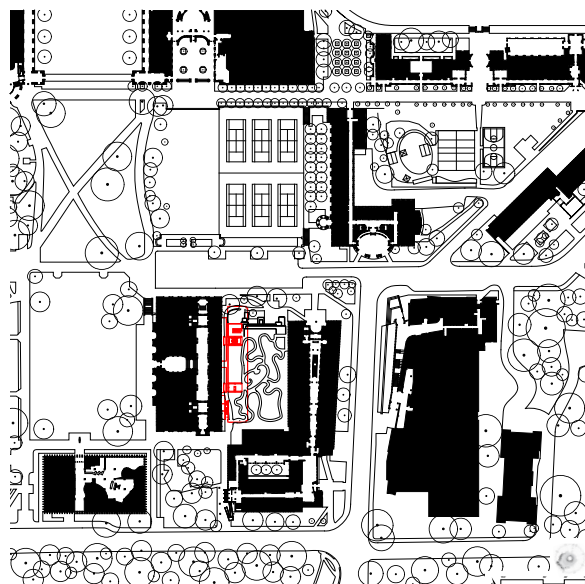
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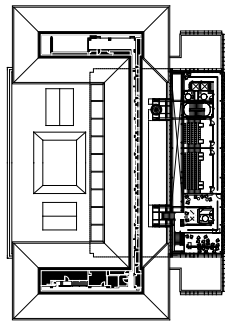


PROJECT EX

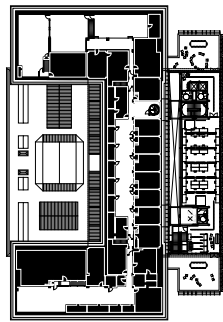
college of fine arts extension, carnegie mellon university | fall 2023 | group of four

Project EX, short for “extension”, explored an opportunity to expand Carnegie Mellon’s College of Fine Arts Building (1916, Henry Hornbostle) to provide much-needed space for the School of Architecture. The project navigates controversial questions around what an architecture school is and how to interact with a historic and prominent building. Completed with David Warfel, Brody Ploeger, and Jacky Jia, our proposal finds dialogue with a controversial courthouse extension, also by Hornbostle, included above.

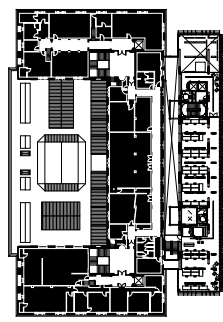




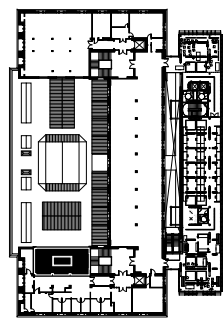
level 5. lecture halls, classrooms



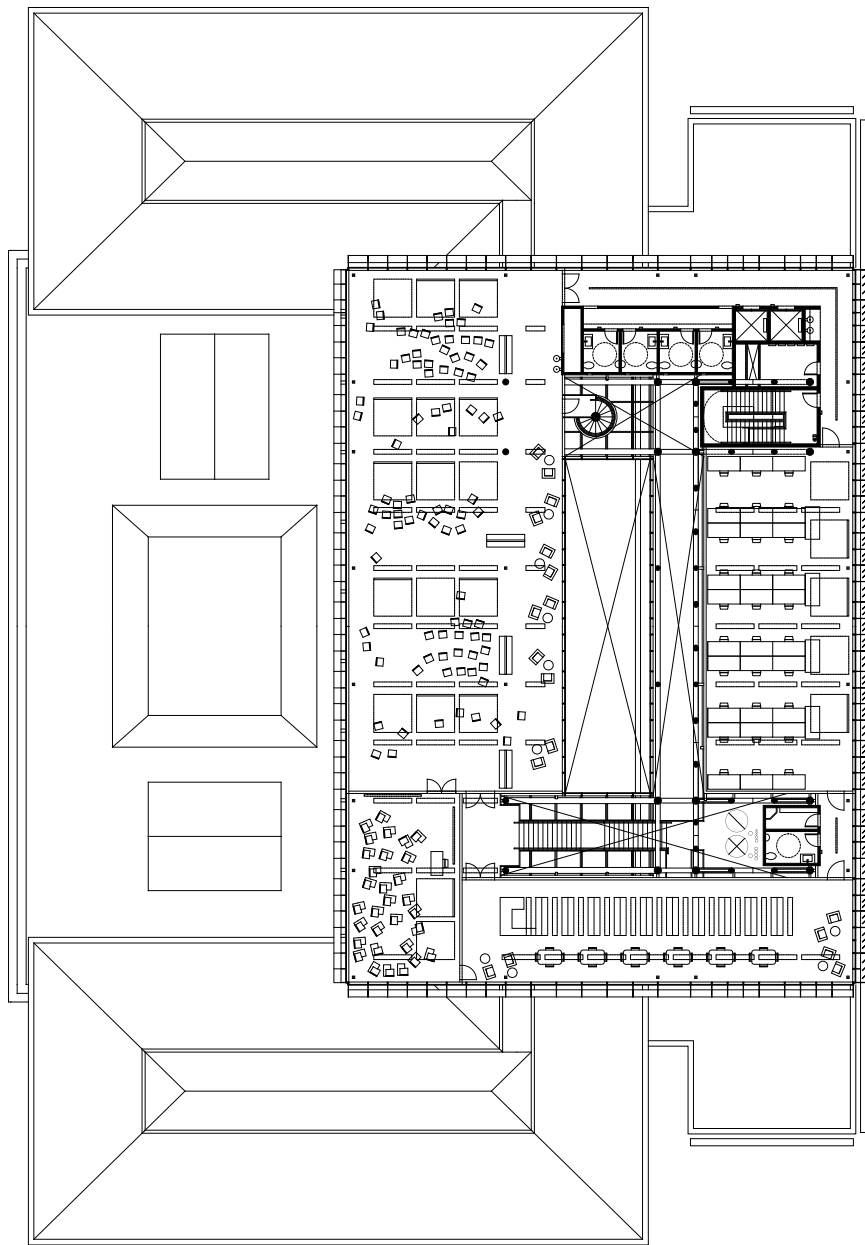
level 4. studio, roof terraces



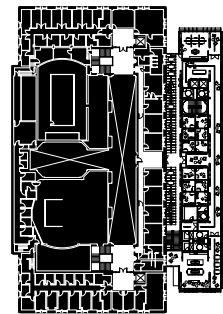
level 3. studio



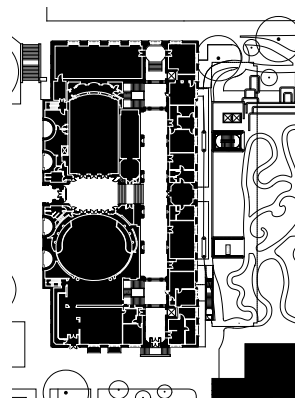
level 2. open critique space, studio



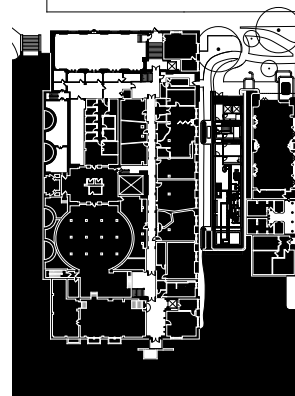
level 6. multi-purpose critique and exhibition space, classrooms, architecture library, thesis studio



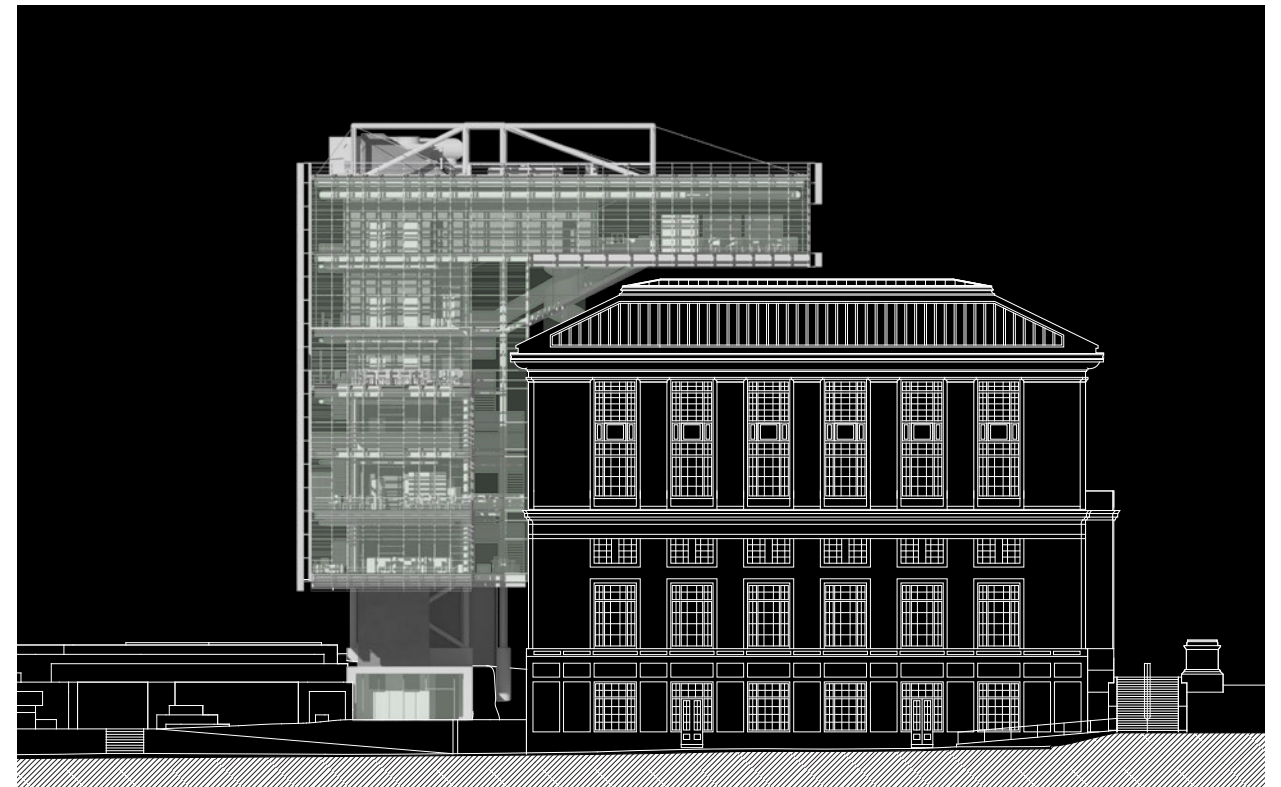
level M. music studios, student + faculty lounges



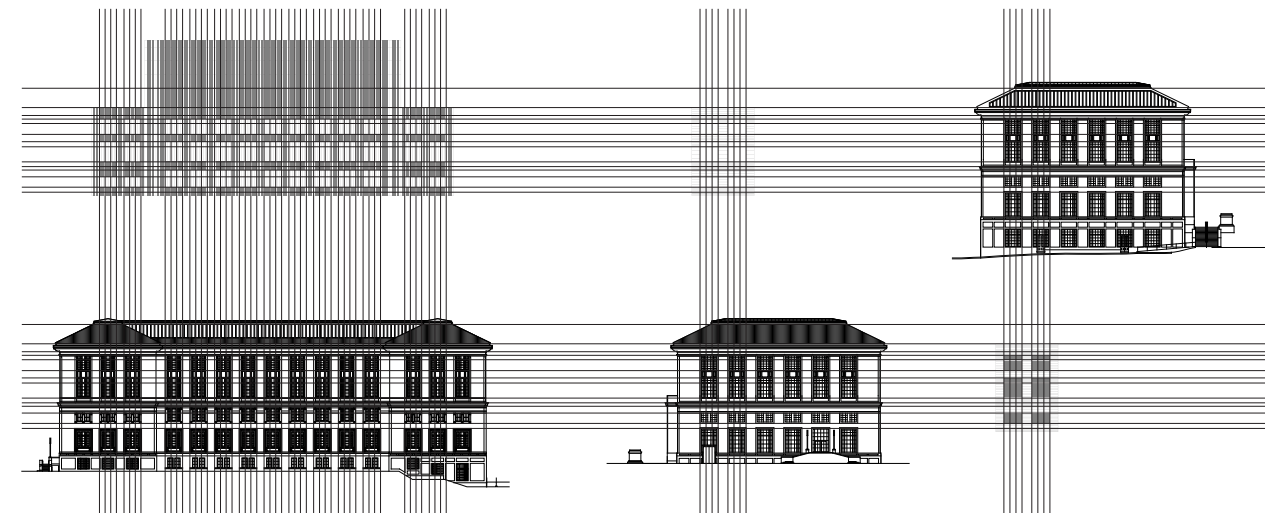
level 1. kraus campo



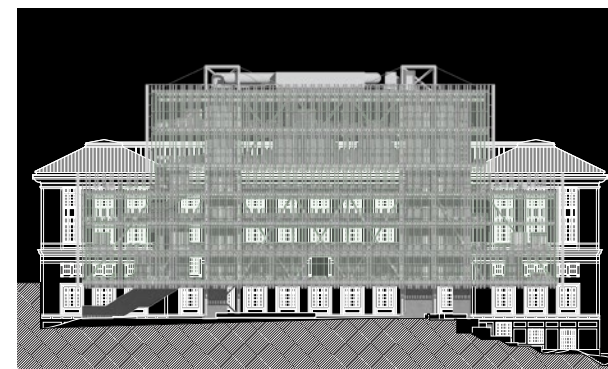
level A. elevator lobby, fire center, mechanical



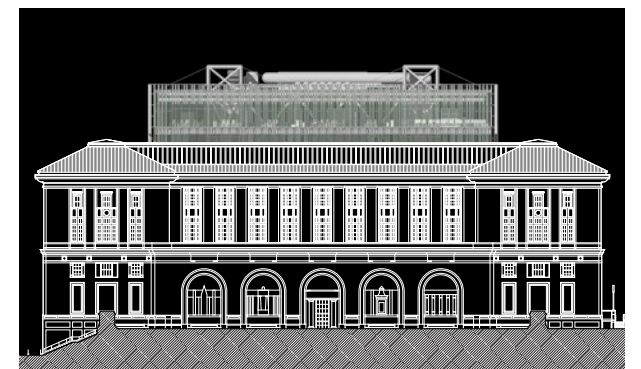
north elevation



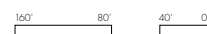
generative facade diagrams

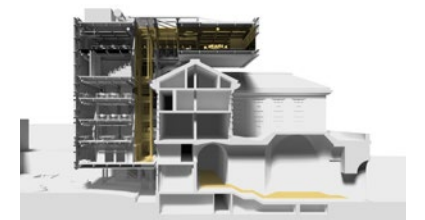
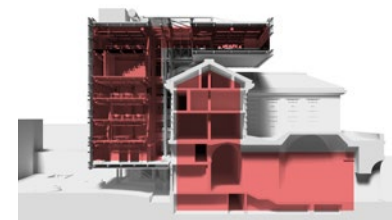
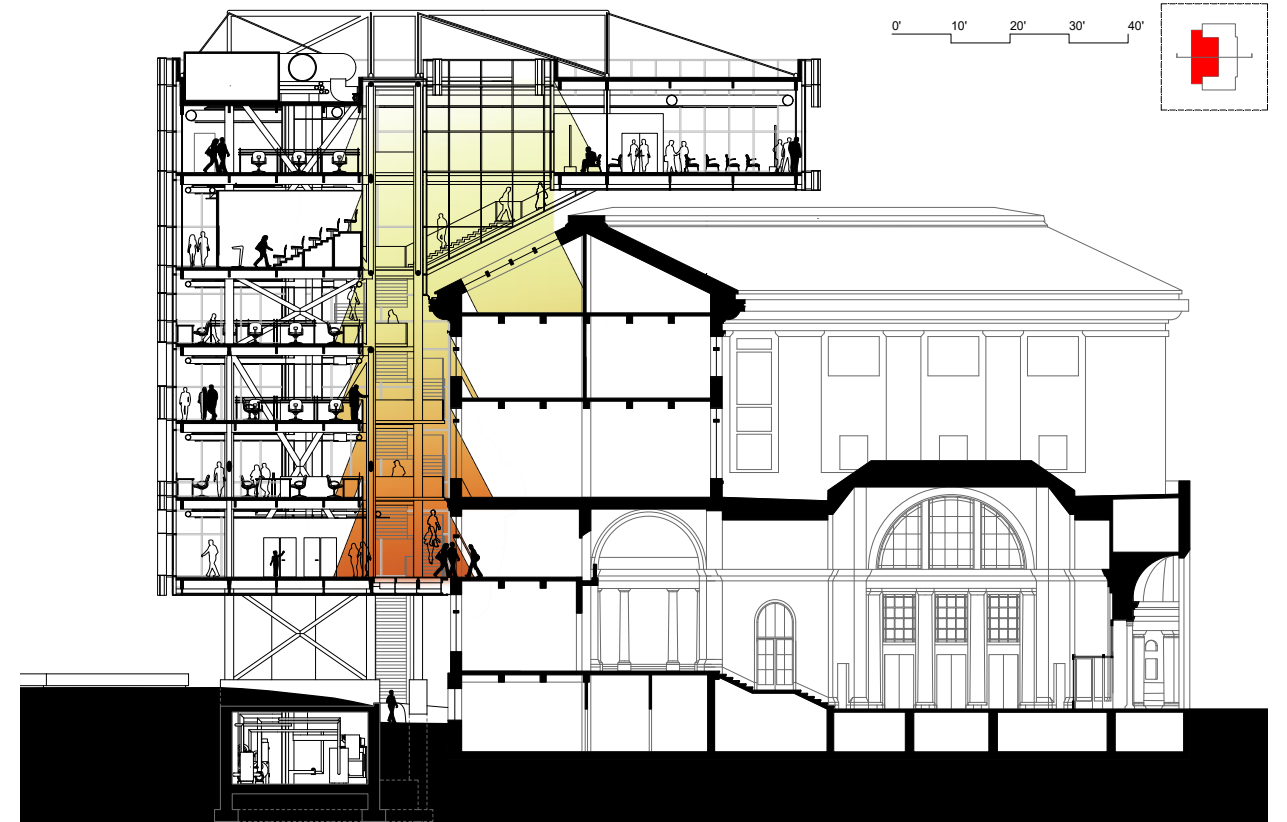
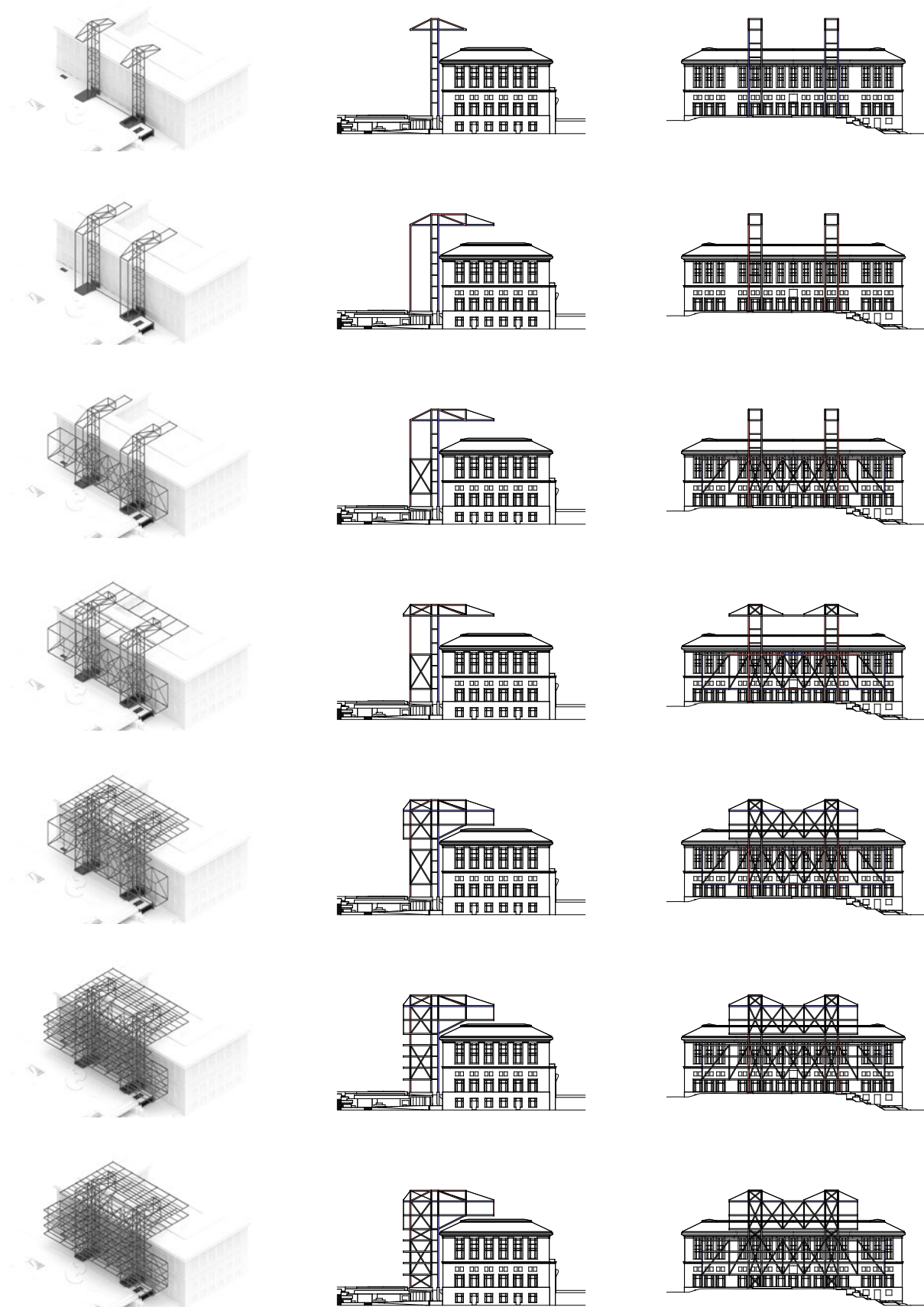


east (rear) elevation

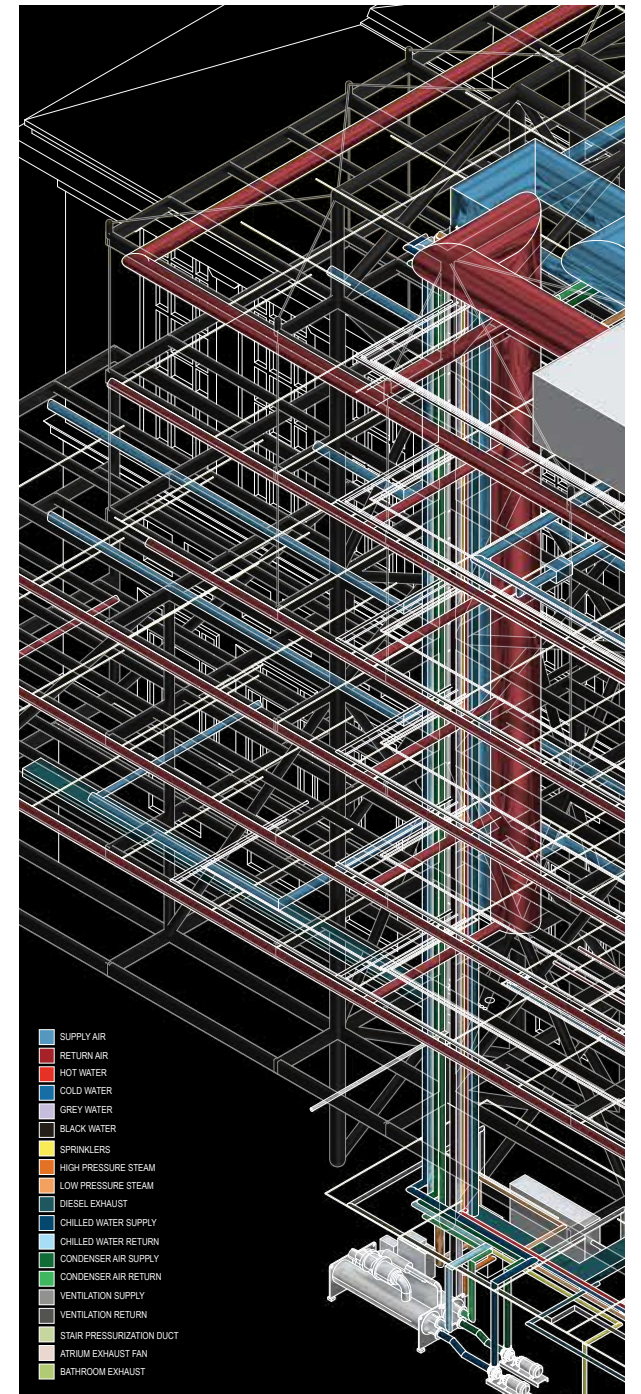
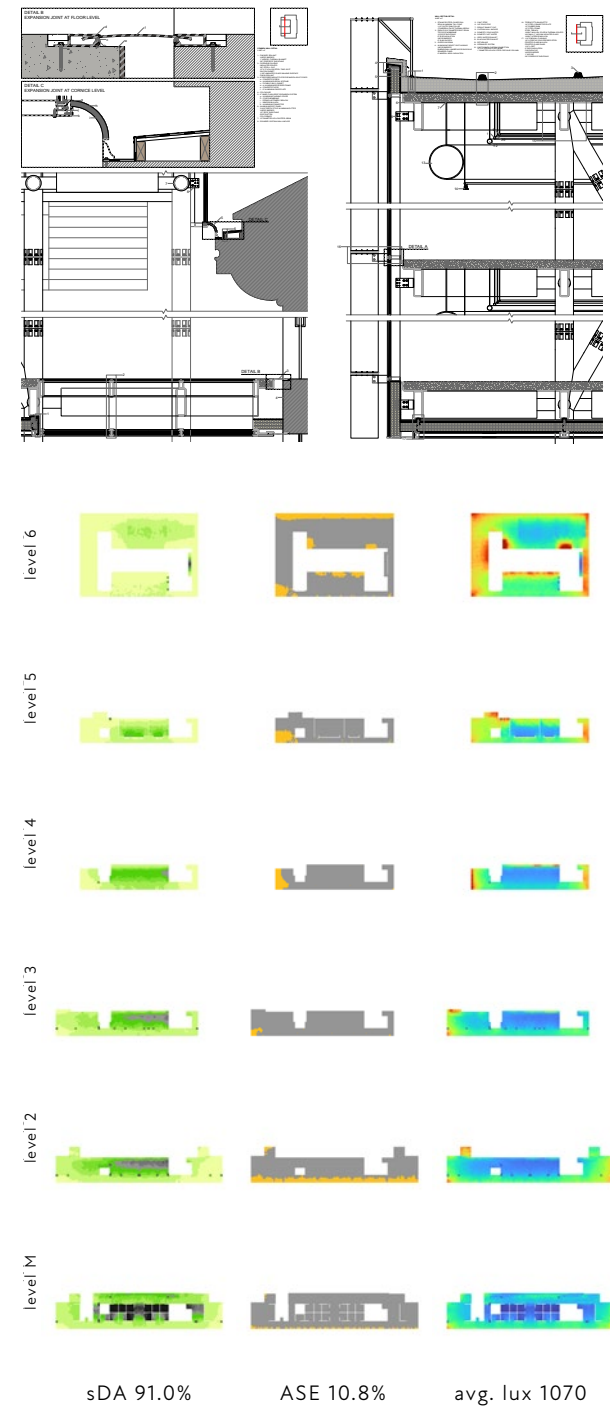


west (front) elevation



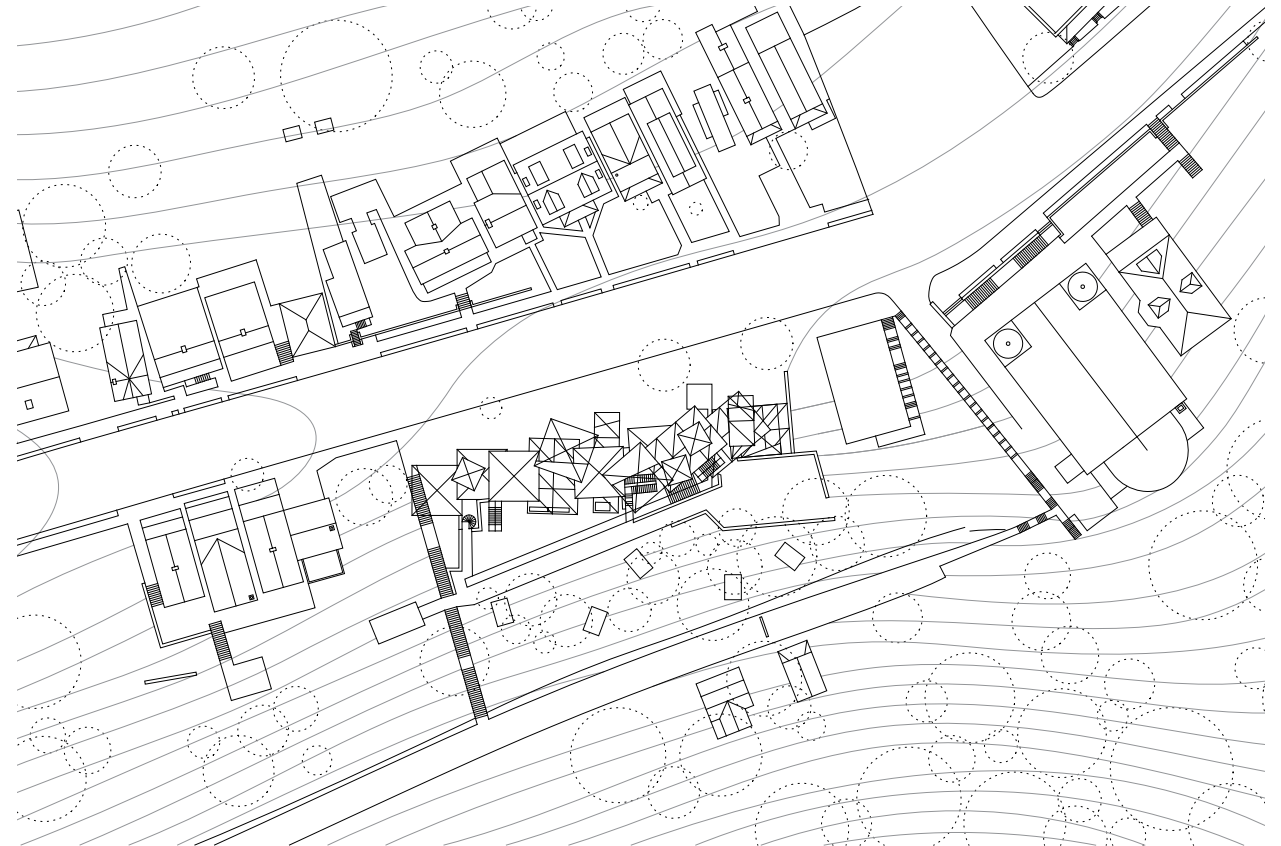
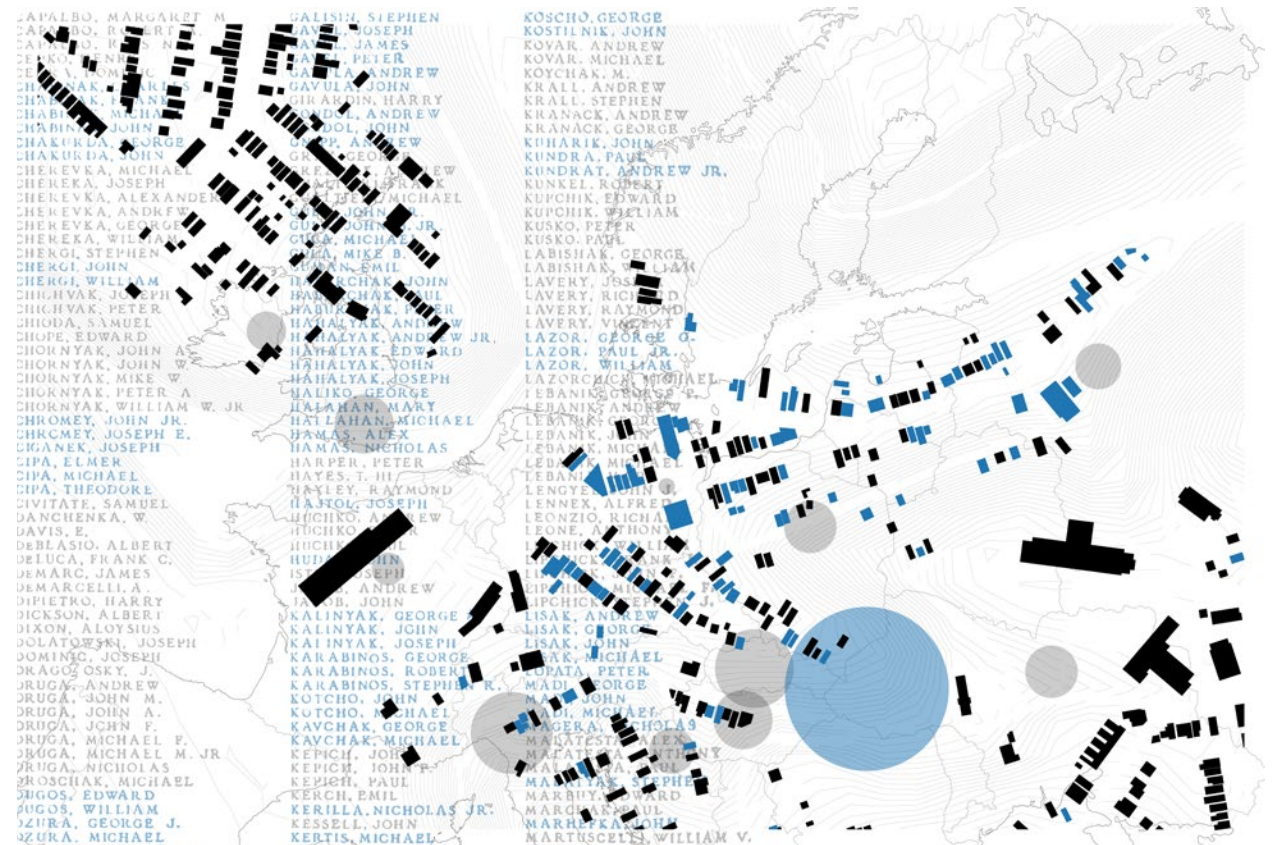


Adoption of a crane-like structure allows the proposal to navigate a dense site and make the cantilever possible. Raising the building on stilts allows for the preservation of an important outdoor space on campus. An atrium between the historic building and the extension diffuses light into both constructions. Spaces at the top of the building take advantage of the vista along the academic mall.



22 facade iterations tested using CS Climate Studio guided the group towards a facade design that provided 91% spatial daylight autonomy, only 11% annual solar exposure, and an average lux of 1070- appropriate for drawing, model making, and the exhibition of work. Terracotta shading devices significantly reduced glare while also reflecting daylight deeper into the space.

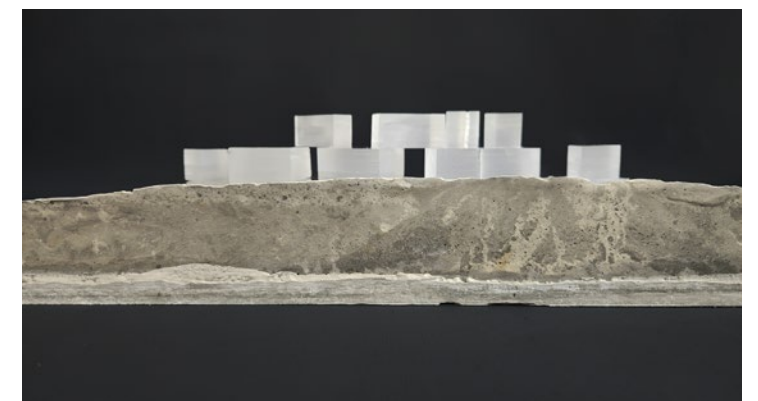
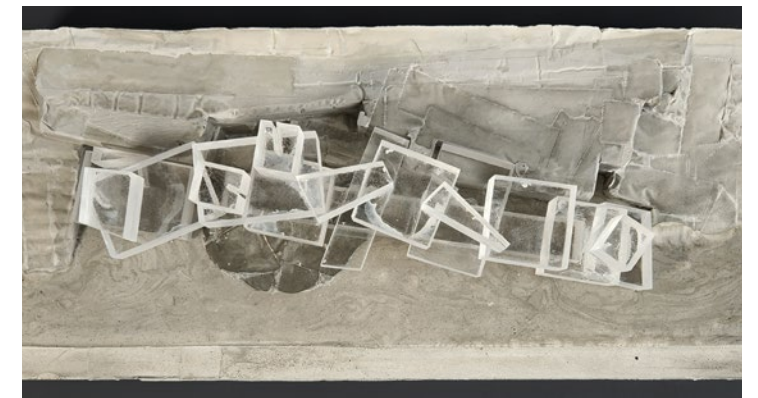
Combining the scrim with R15 vacuum insulated glass panels, this facade strategy drastically lowers heat transfer through direct solar radiation and conduction. The facade and systems, openly exhibiting building performance, serve as a pedagogical tool for the School of Architecture.



SYNCOPATION

a refugee welcome center in 4-mile run | spring 2022

The Syncopation Studio focused on emphasizing the forgotten beat. The site is a secluded Pittsburgh neighborhood known by locals as “the run”. As I explored the area, I became acquainted with its numerous of icons of the Madonna that allude to the neighborhood’s religious and Carpatho-Rusyn ethnic history (marked on the map in blue). The nature of arrival and the traces left by the inhabitants led me to consider the neighborhood as an amalgam of artifacts gathered over time.



The welcome-center adopts axes and textures of the urban setting: the slim stretch of land between the street and the hill, the narrow houses 3-4 stories tall, and the Byzantine Catholic church at the end of the row.

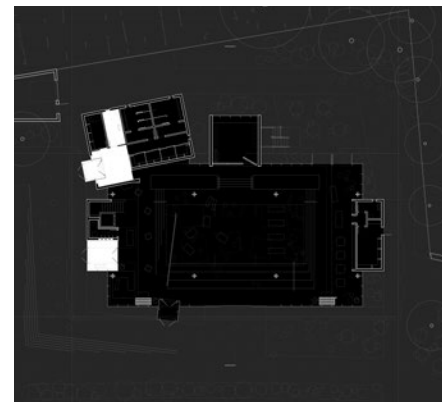
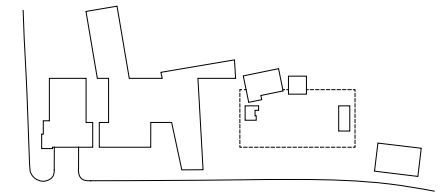
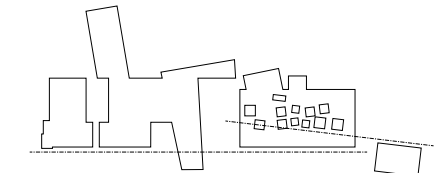
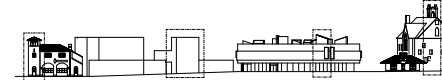
The form provides for the center's administrative spaces, a small-business incubator, arrivals accommodations and other spaces for work, play, and meditation.

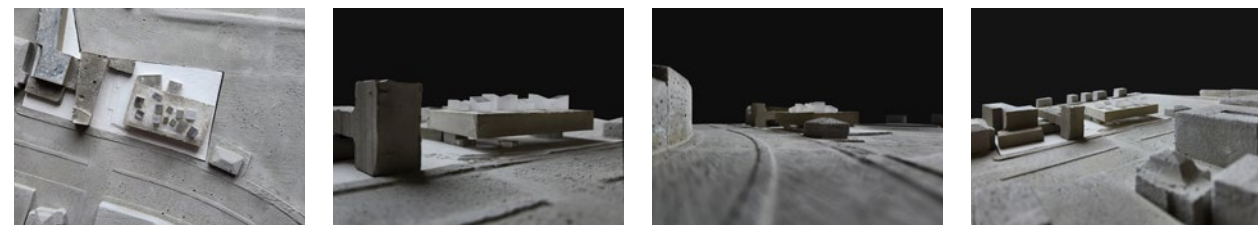
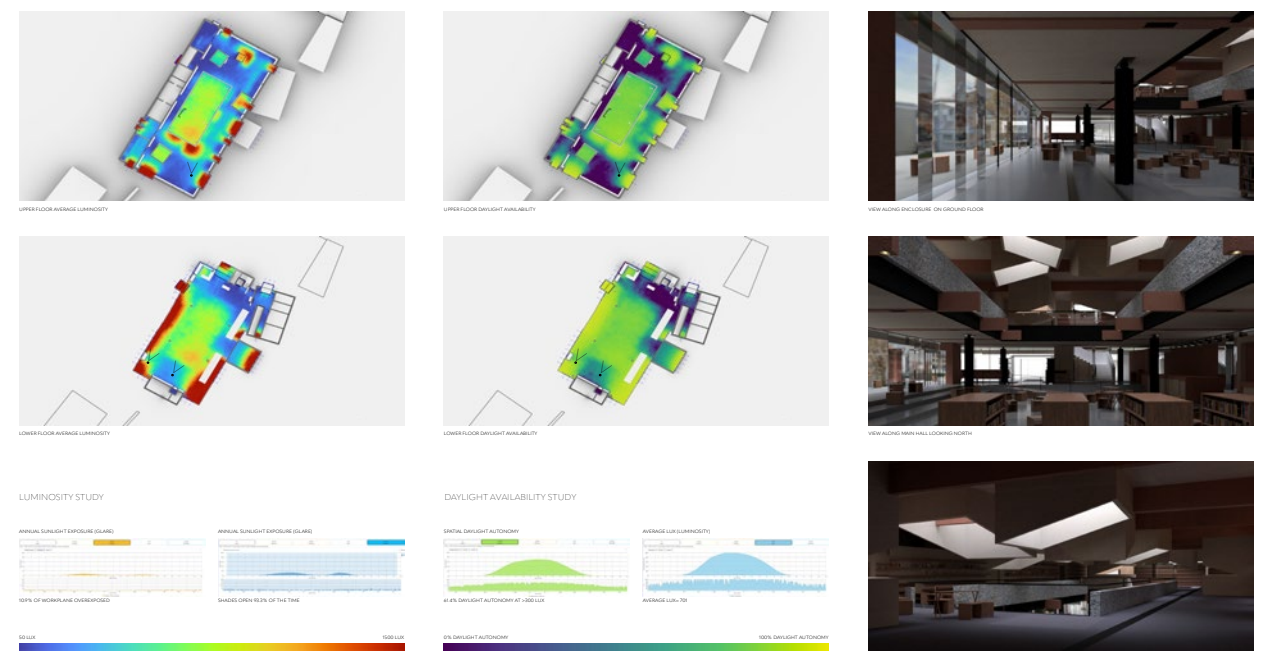
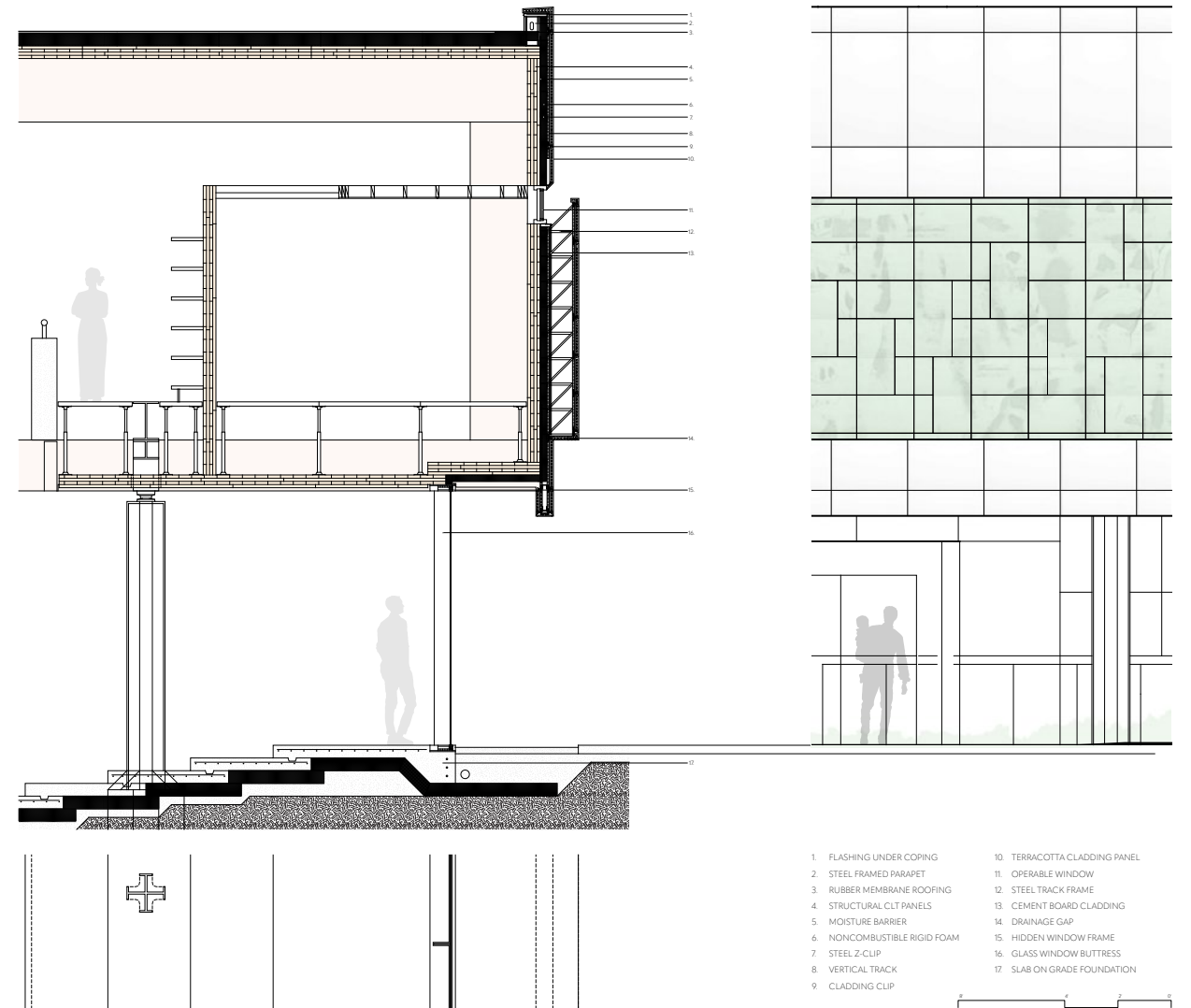
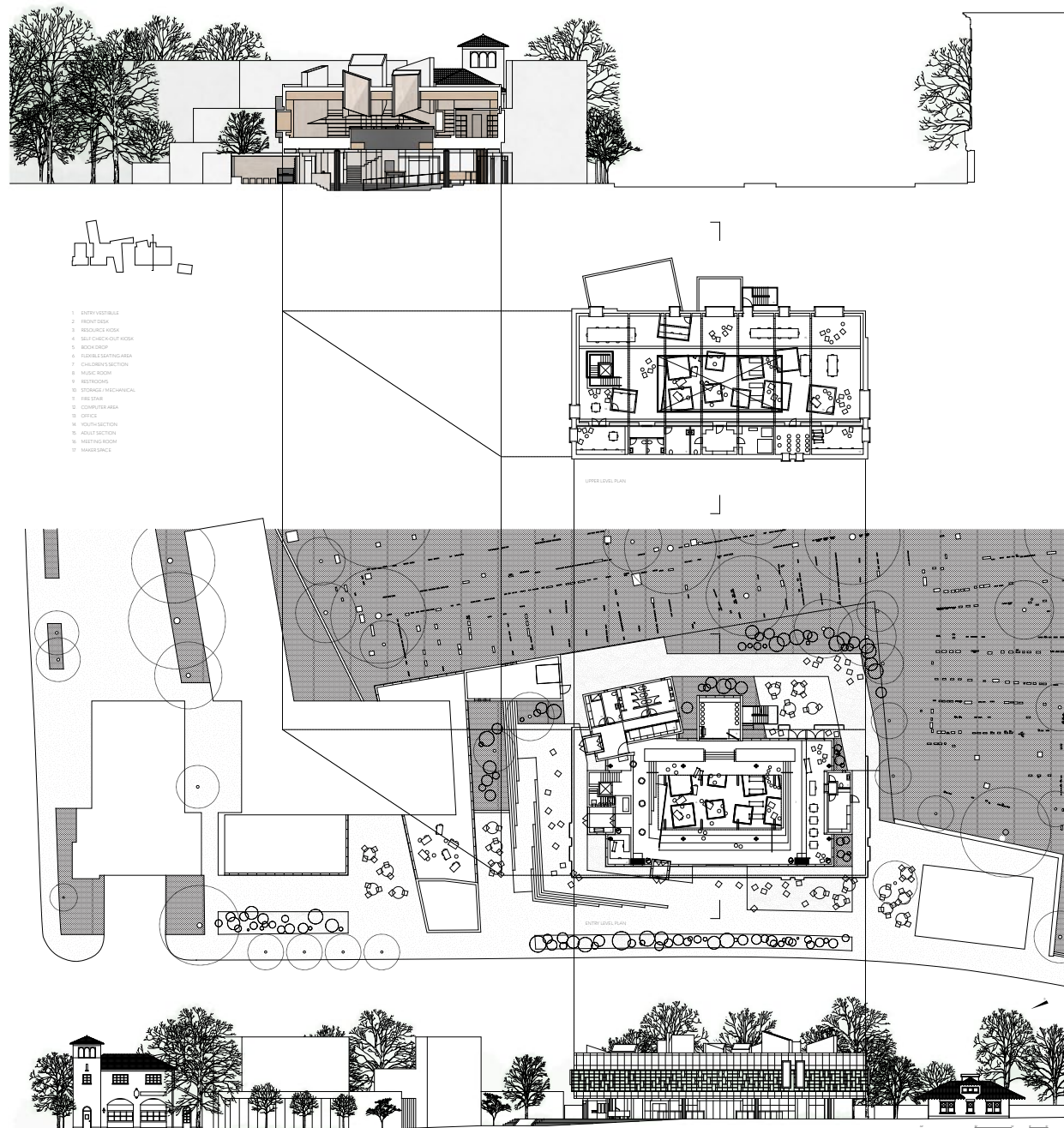


LIBRARY

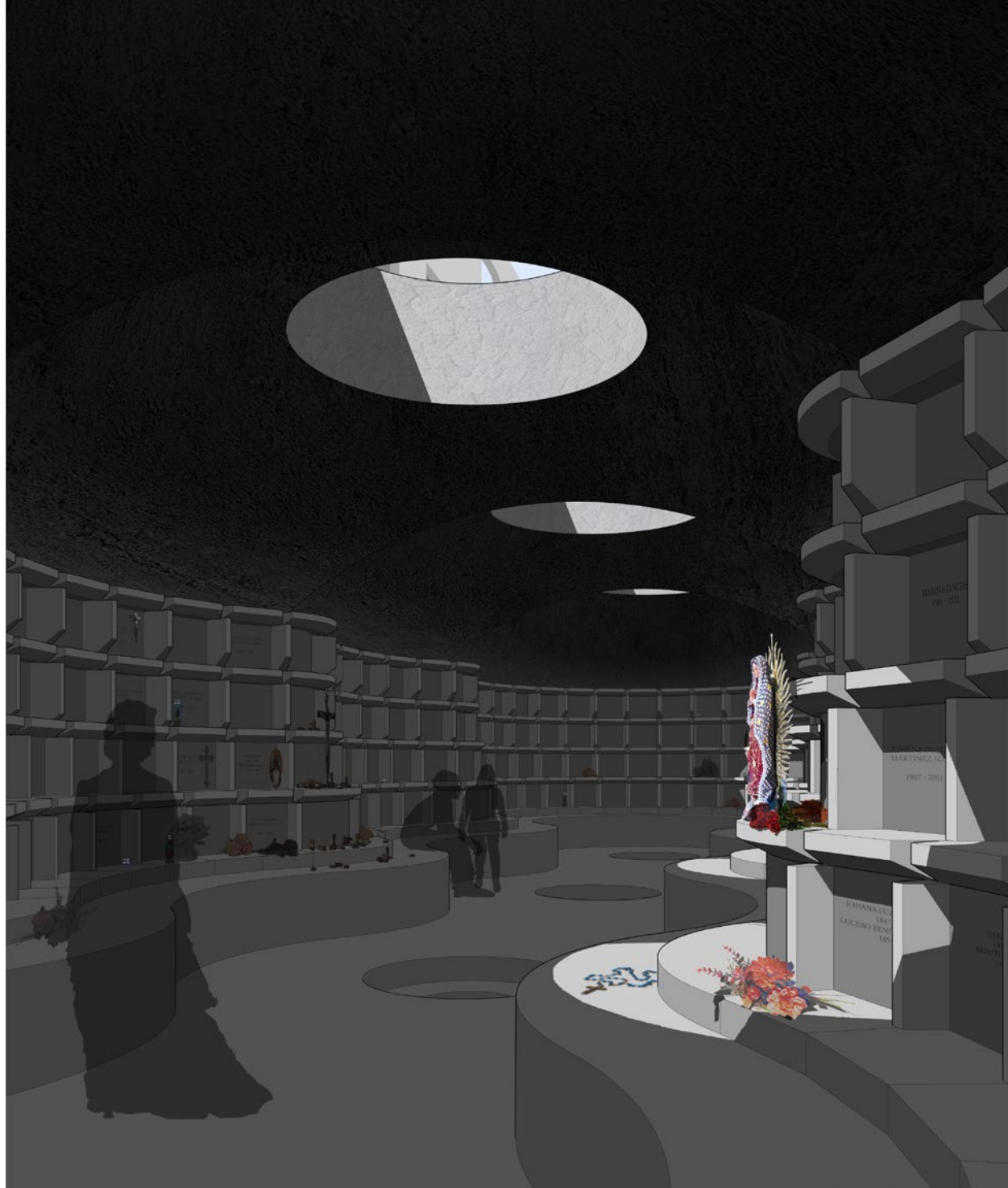
upham's corner branch library, boston | spring 2023

Sited between two historic buildings, a cemetery, and a traffic artery, the Upham's Corner branch library responds to its context while maintaining self-defined geometries. The building's ground floor functions as an interior public square, reminiscent of Boston's Old South Meetinghouse. The design facilitates a variety of services through the day and into the night. The proposal balances both openness- being accessible to the community, and seclusion, a providing a place of study and peace.





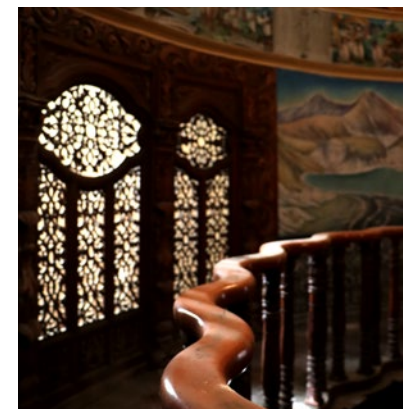
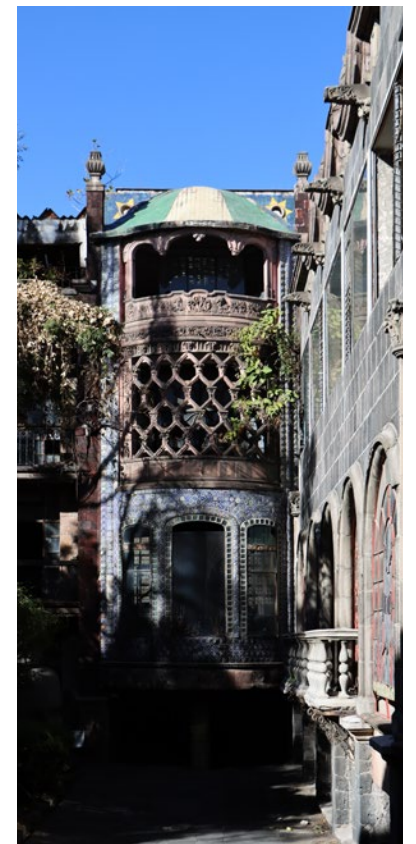
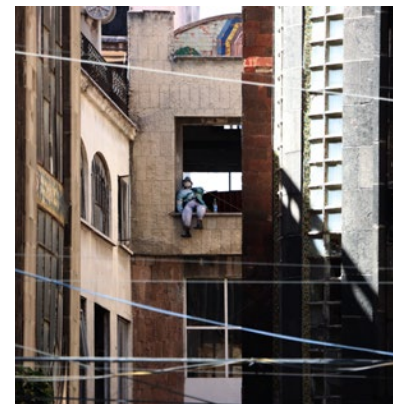
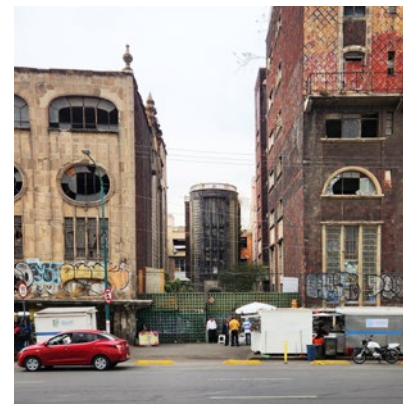
A series of light cannons-illuminate the interior space while also referencing library's context: on the exterior these cannons become towers, like the one on the nearby fire station. The terracotta facade, a Boston tradition is used to connect a modern building its historic context.

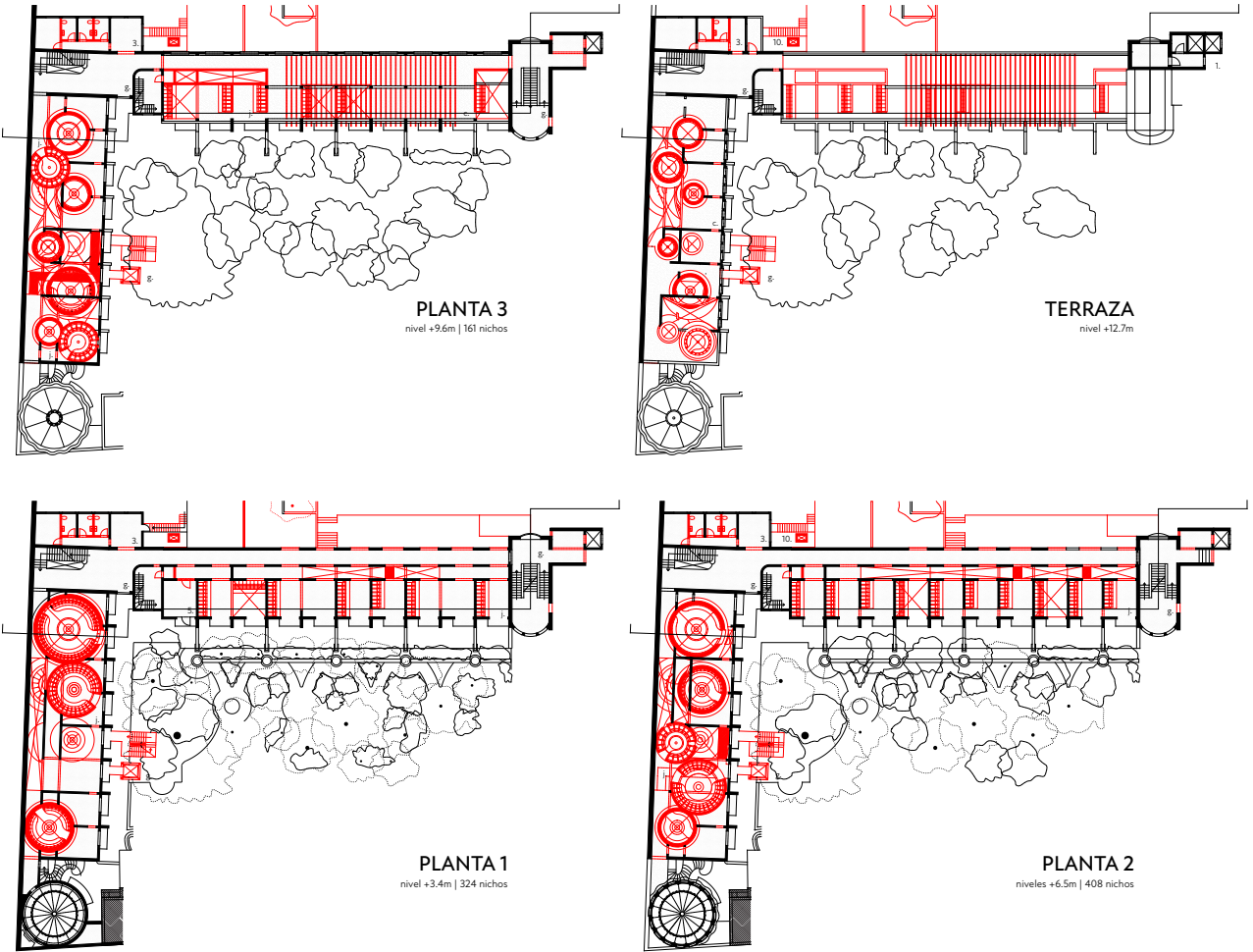
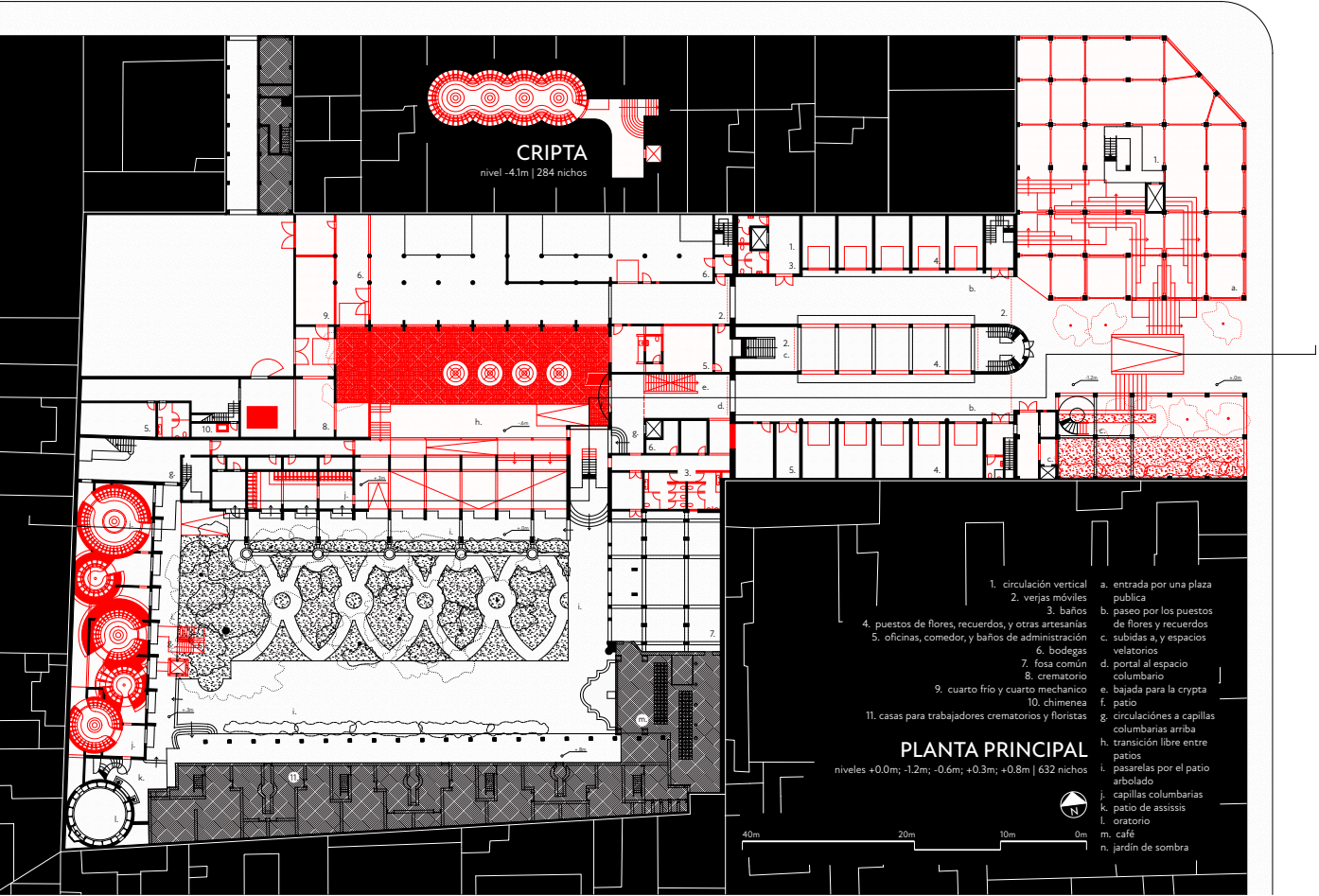


POSADA, PUESTA DEL SOL

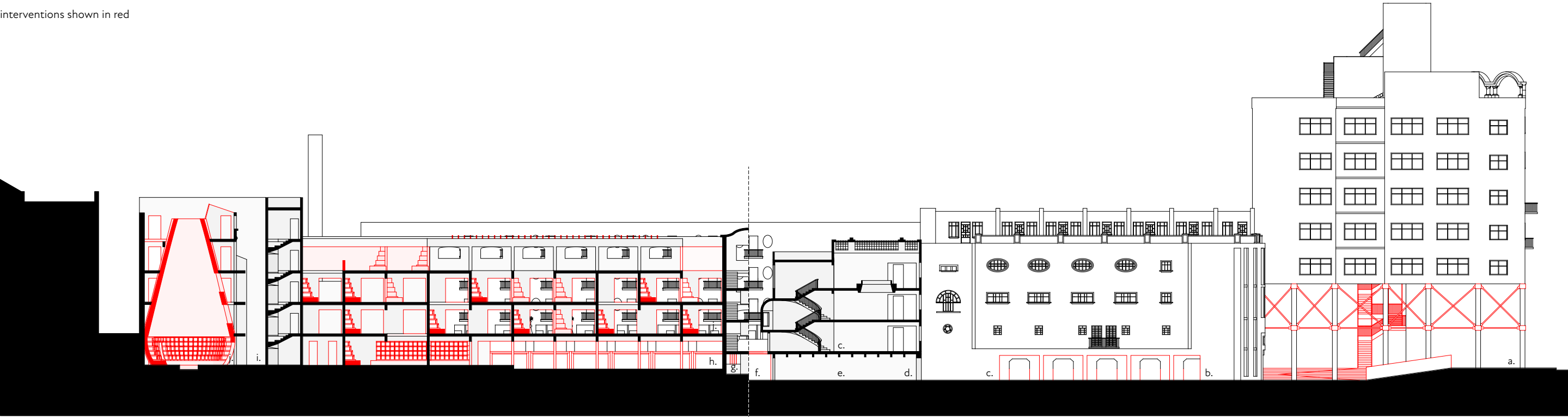
a columbarium in an abandoned mexico city hotel | spring 2024

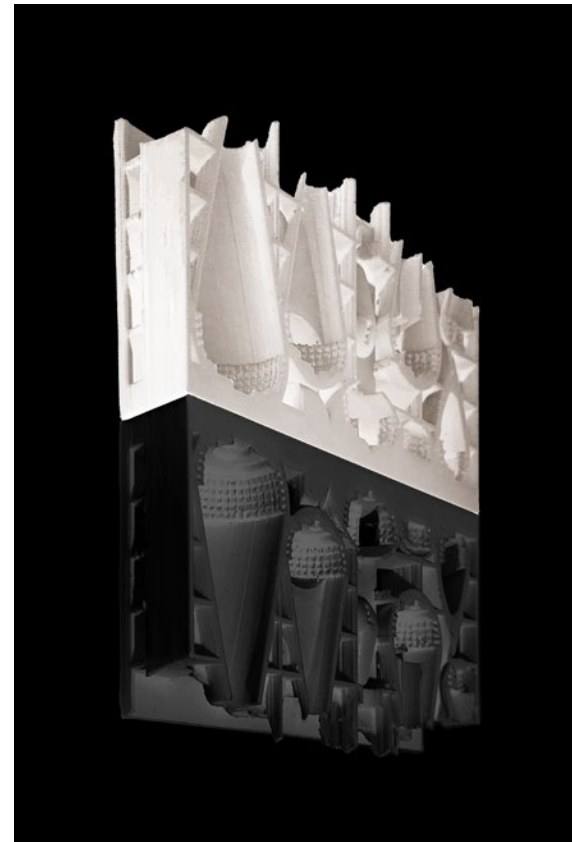
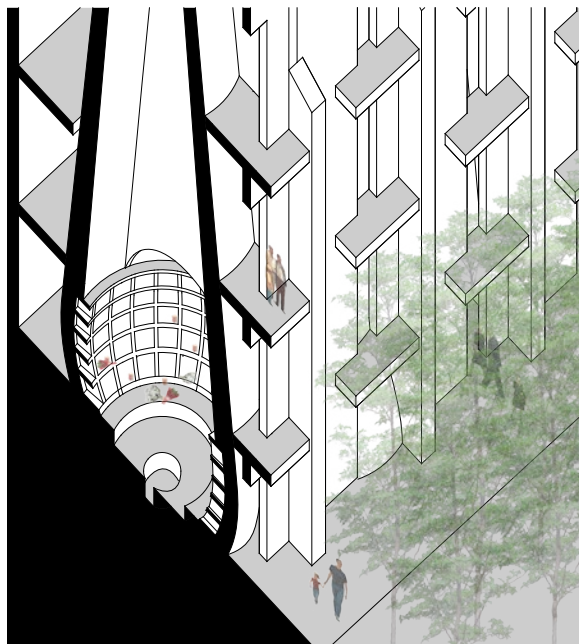
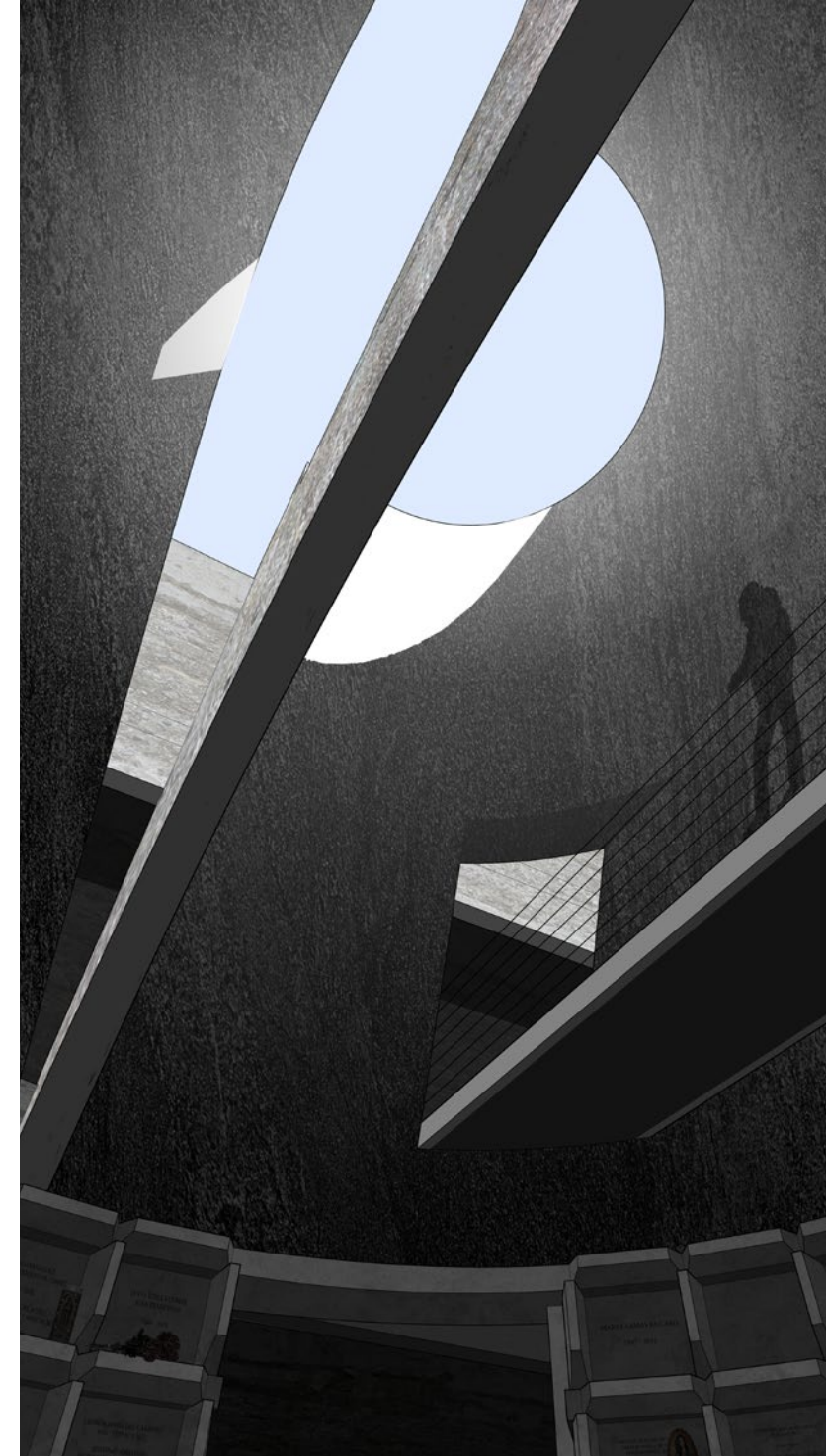
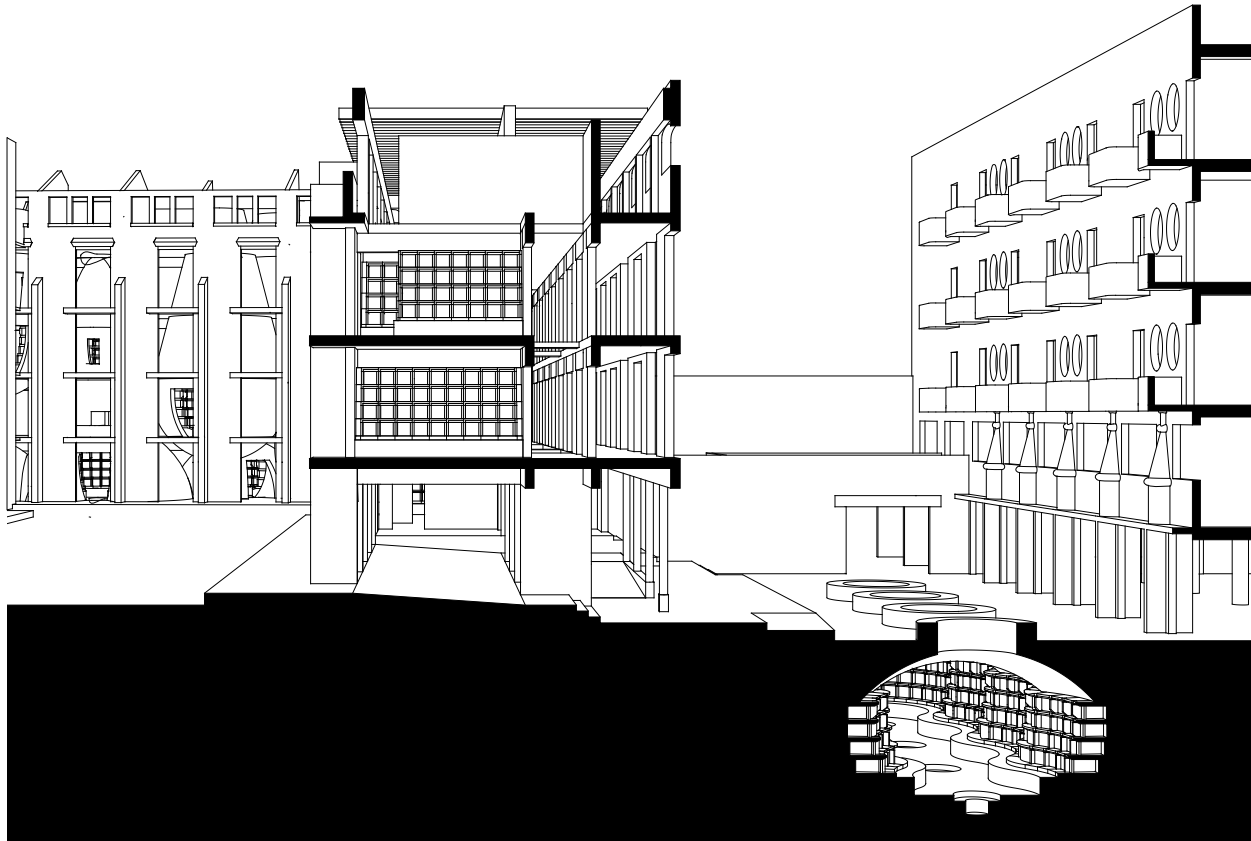
Developed during a semester abroad at Mexico City's Universidad Iberoamericana, this proposal intervenes in a half-century-abandoned hotel in the Colonia Doctores. The funerary complex introduced at the core of the block harmonizes with the courtyard's verdant tranquility to provide the local community an "other space" that defends from the dichotomic choice between crime and gentrification. The programs answers for the acute shortage in sepulchral space the city faces.



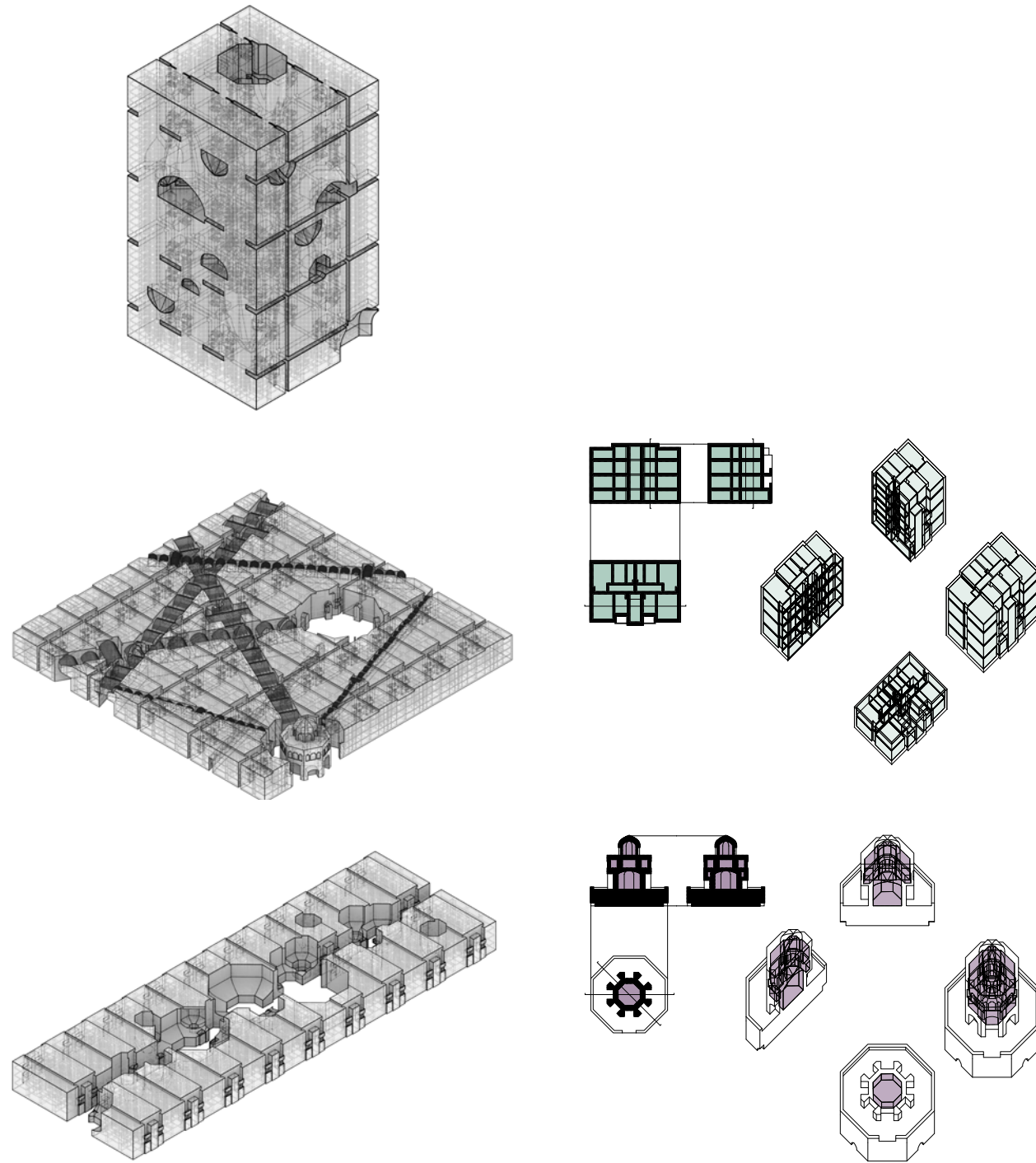


interventions shown in red





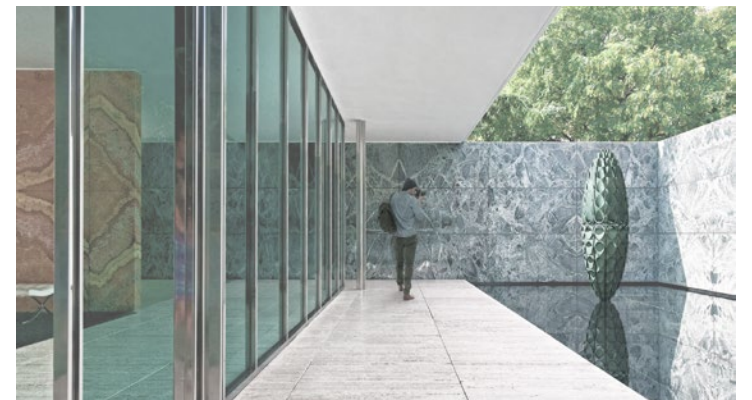
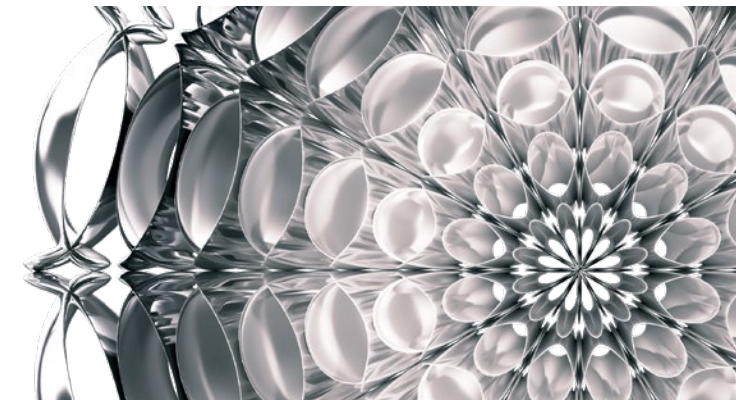
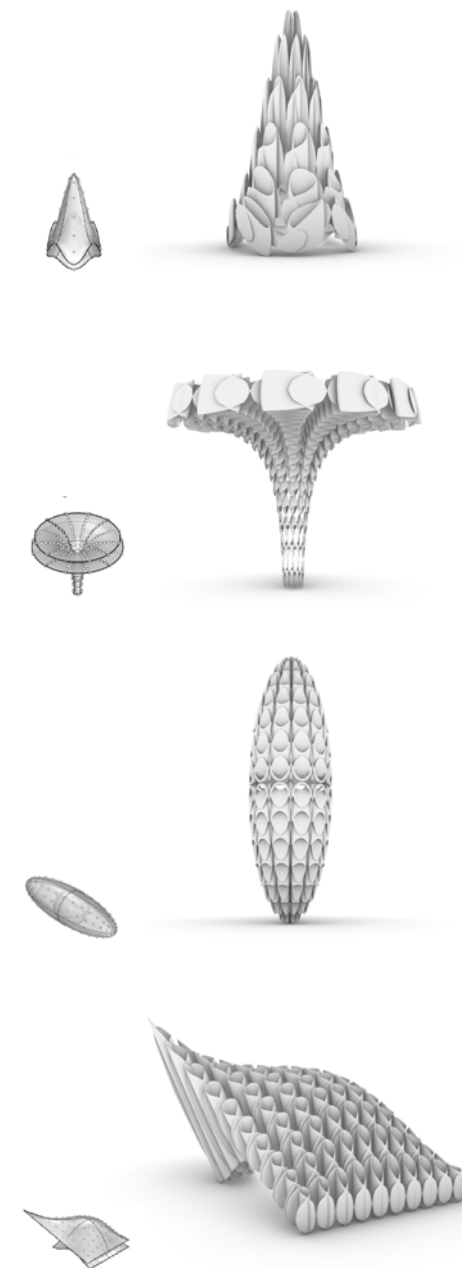
The removal of facades and walls from the lower portions of the building at the corner of the block allows for materials to be reused deeper in the block's interior and creates a covered public square near the intersection. Continuing into the hotel, visitors pass by flower-stands, an administration area and towards the large courtyard. According to structural maintenance needs and the built context, varied approaches are used to add funerary chapels into the existing hotel buildings.

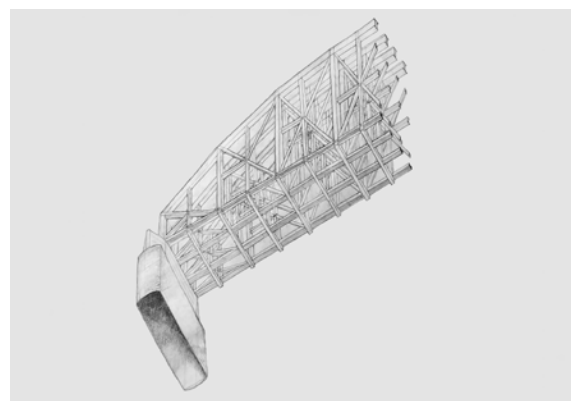
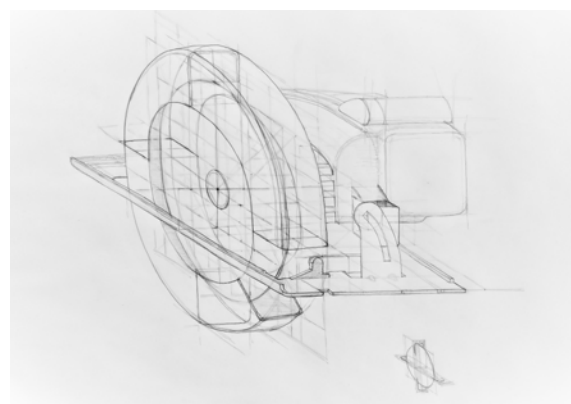
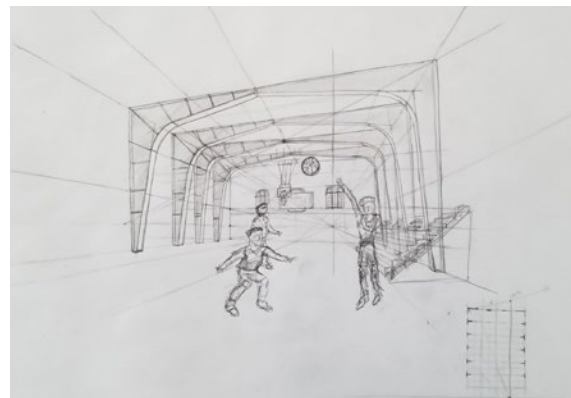
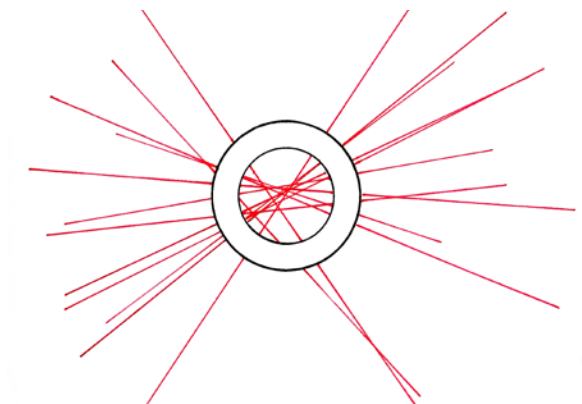
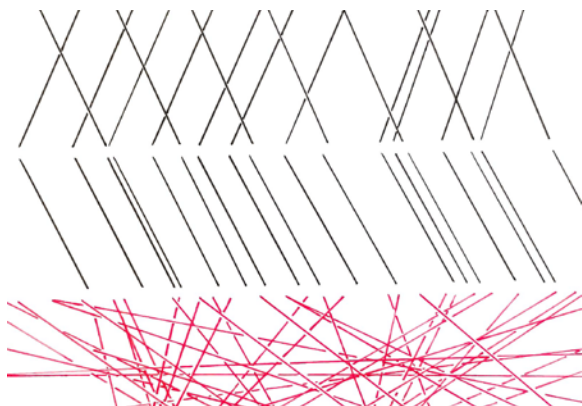
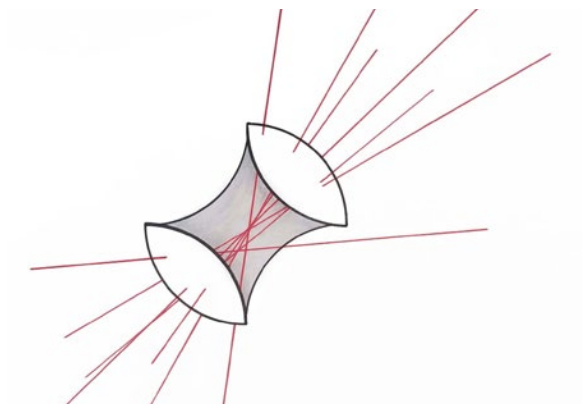


COMPUTATIONS

precedent analyses, hybrids, biomimetics | 2021 - 2022

left: Papagaiensiedlung, Berlin & Sheikhpura Pleasure Pavillion hybrids in tower, mat, and street form
right: variations on a strawberry at various scales





À MAIN LEVÉE

hand drawing | 2020, 2021

left: constructed drawings using pencil; depth and light drawings in charcoal
right: drawings exploring light and light color in pastel

