
BRIGITTE
CARLLOS
ARCHITECTURE
PORTFOLIO

Bicentennial Schools
Nuestra Señora de la Visitación

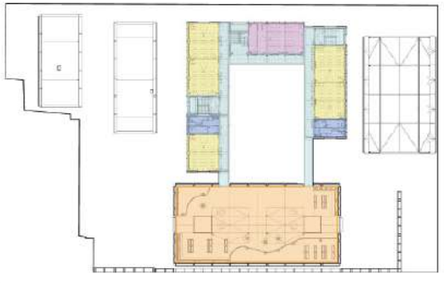
Lima, Perú

The Bicentennial Schools Program is Peru's first large-scale public investment initiative focused on improving educational infrastructure. The program spans 9 regions and 21 districts in Lima, aiming to benefit over 114,000 students and reduce the national infrastructure gap in education.

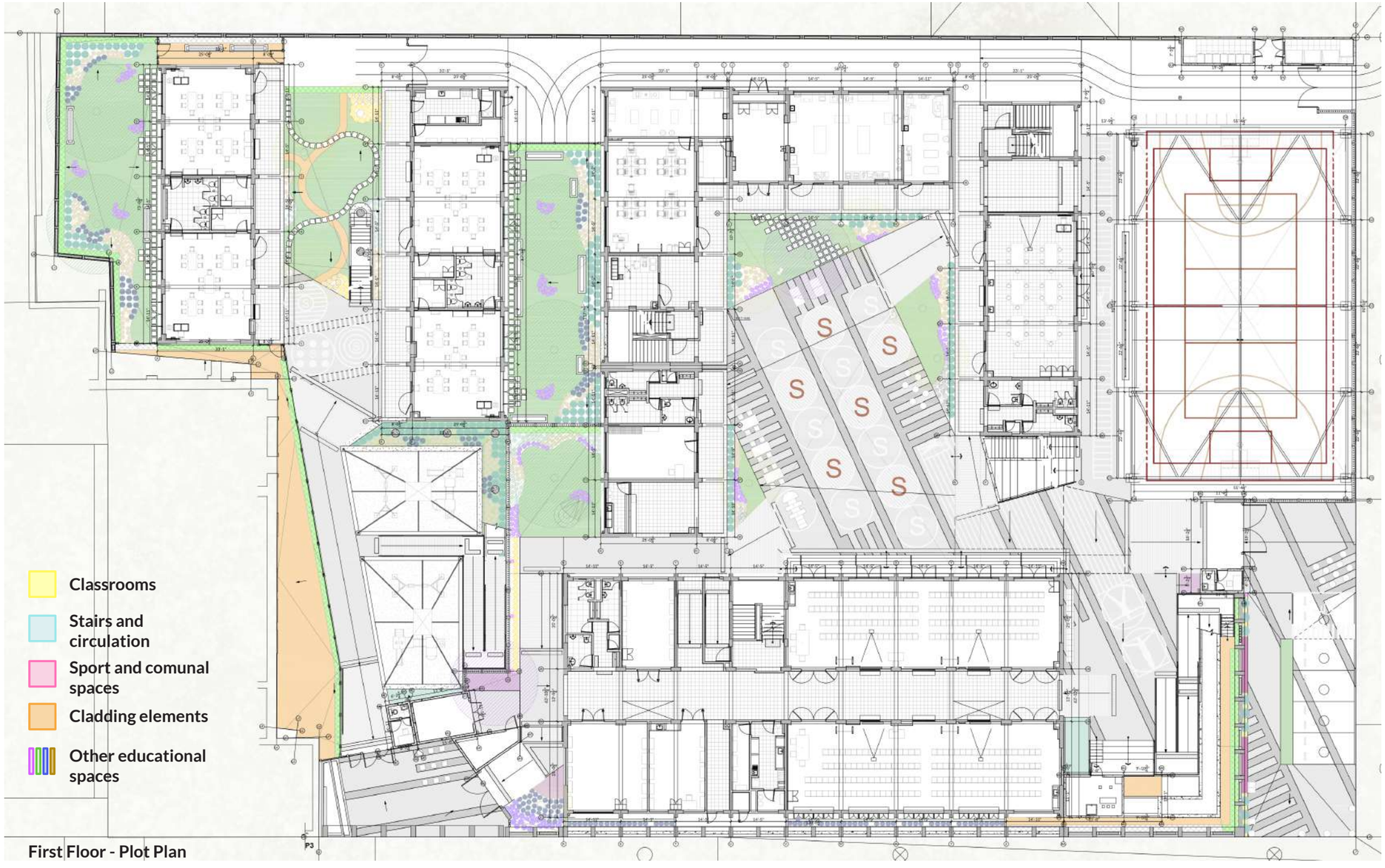
I contributed as an architect to the Pilot Package, the first group of four schools within this initiative. The school designs were based on the Modular School Catalogue, using a flexible, modular system tailored to local needs. The entire process was developed using a BIM workflow, including 3D modeling of architecture, structure, and MEP; cost estimation; clash detection; and interdisciplinary coordination. The design phase has been completed, and the schools are now built and in operation.

First Floor

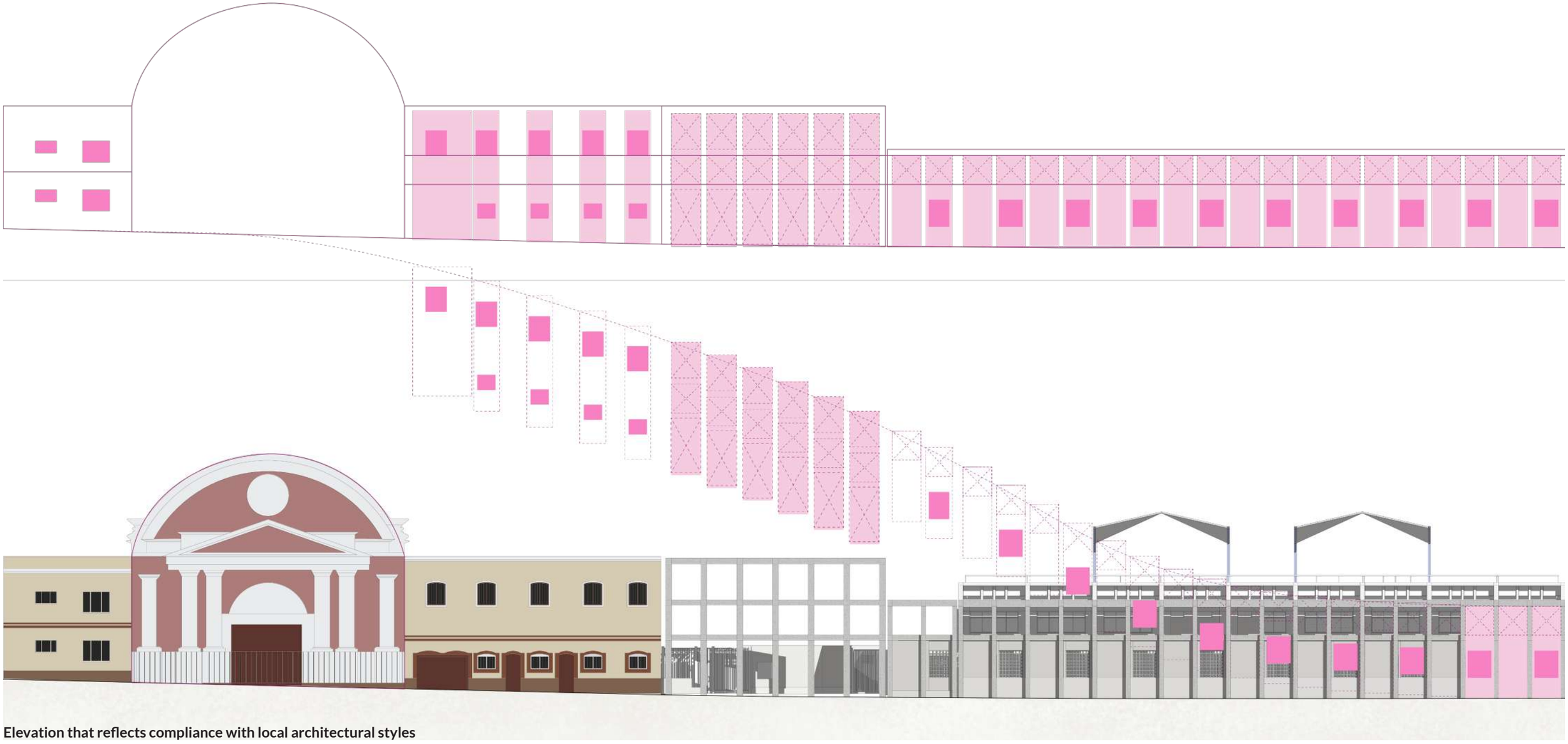
Second Floor



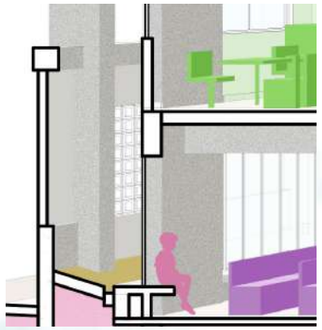
Third Floor



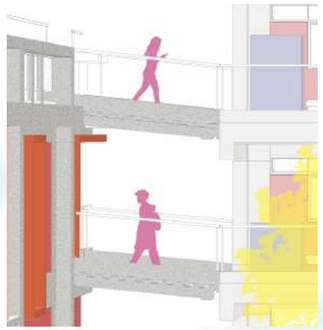
First Floor - Plot Plan



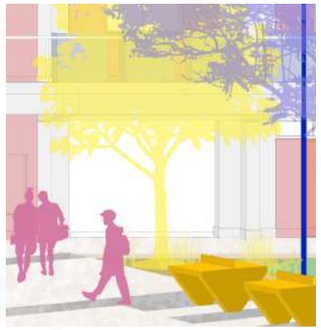
Elevation that reflects compliance with local architectural styles



Social scenarios in classrooms

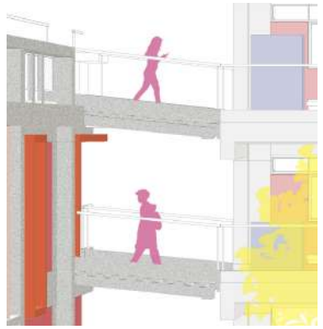


Connection between all levels

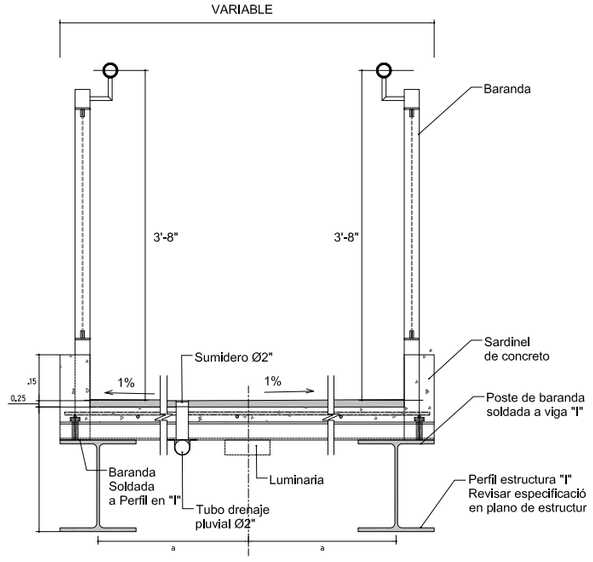


Landscape design

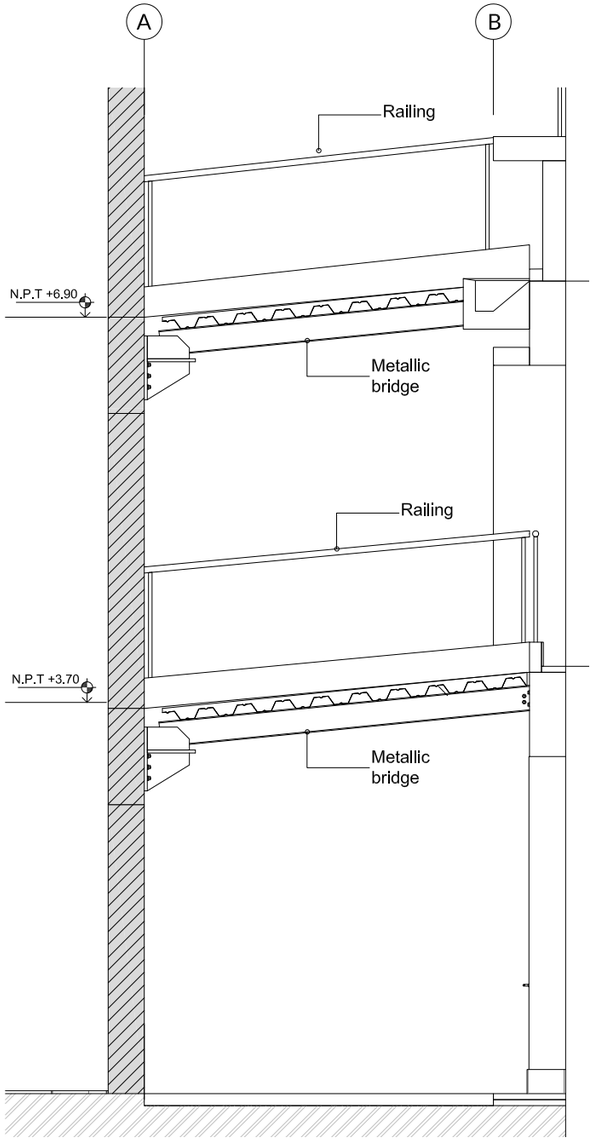
Interactive roof spaces

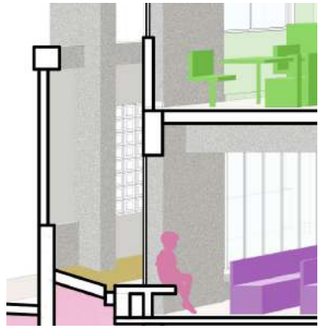


Connection between all levels

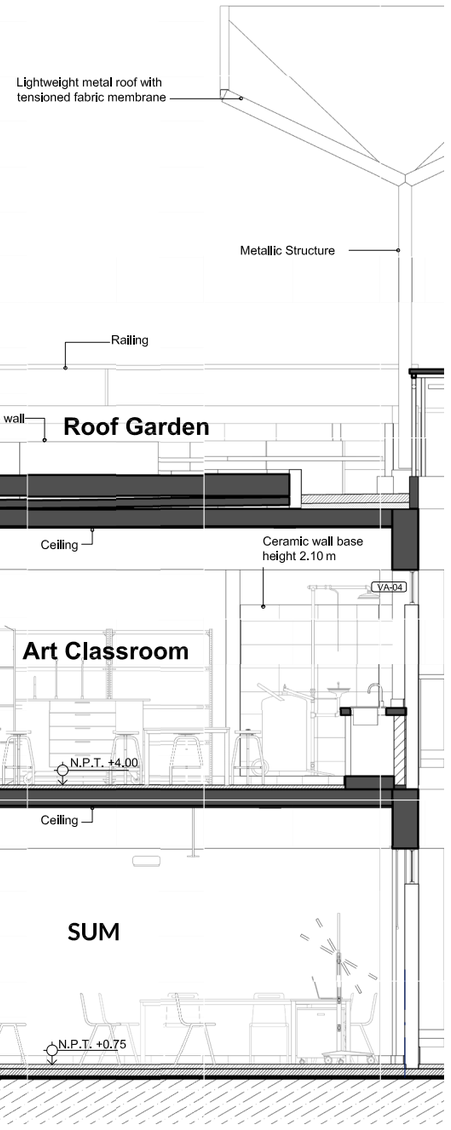


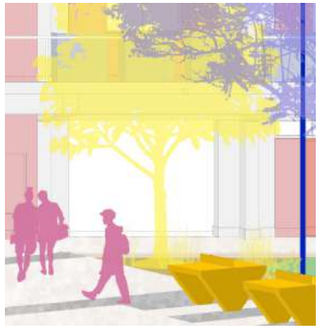
These details were developed by the project team, and I contributed as an architectural drafter.



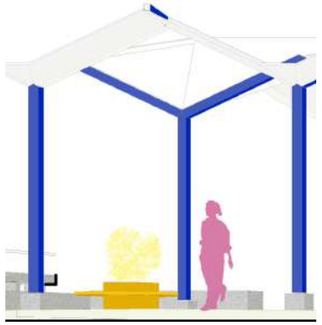


Social scenarios in classrooms

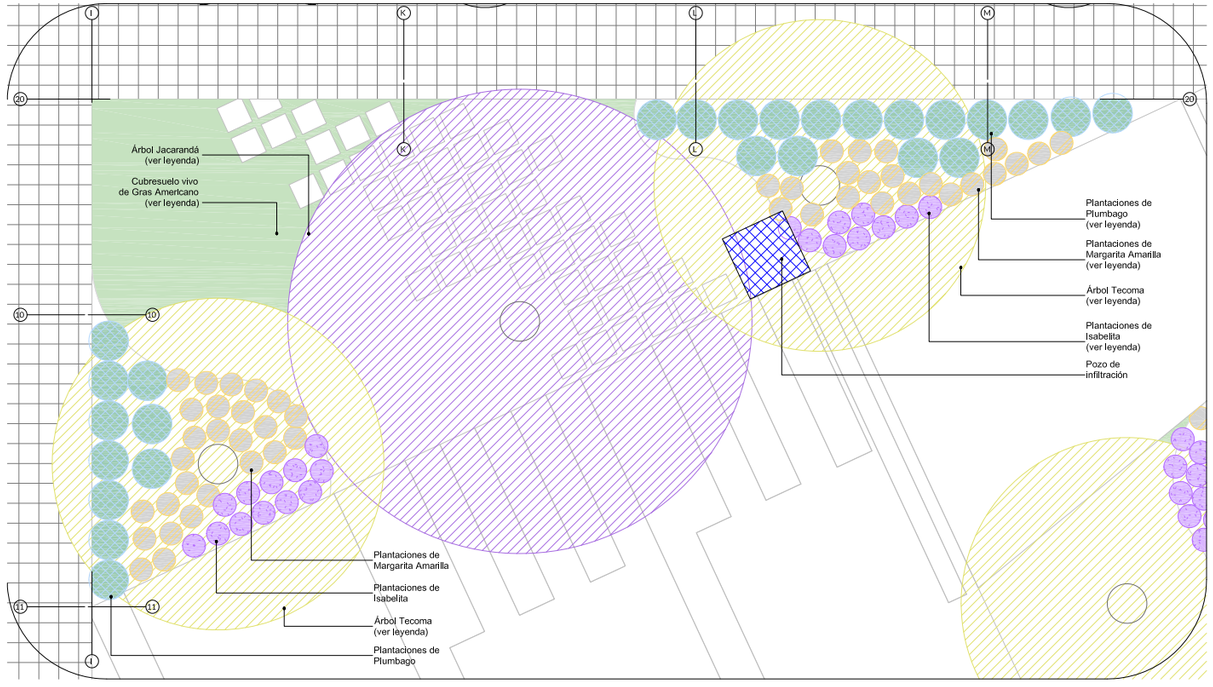


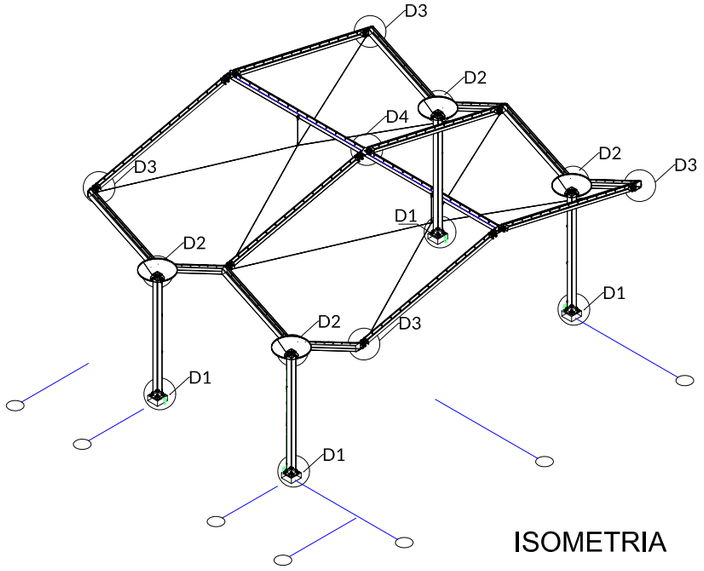


Landscape design

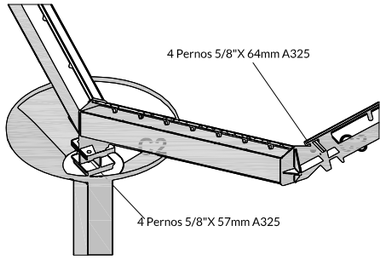


Interactive roof spaces

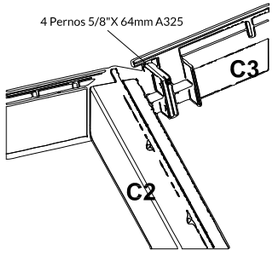




ISOMETRIA



Detalle D2
Conexión a columna



Detalle D3
Conexión en perimetro

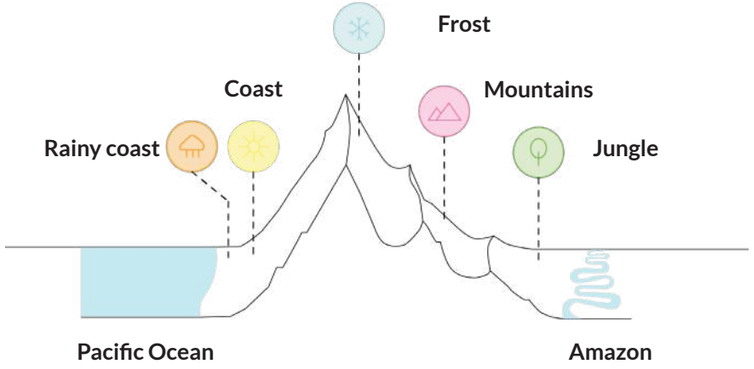
Modular School Catalogue
Ministry of Education of Perú

Perú

I contributed as an architect to the development of the Modular School Catalogue for the bioclimatic zone: Coast. It was a strategic tool created to improve the design and construction of Bicentennial Schools across Peru.

This project was developed using a BIM workflow, integrating architectural, structural, and MEP 3D models, as well as detailed construction drawings. This methodology enabled efficient coordination, supporting the large-scale implementation the future educational facilities.

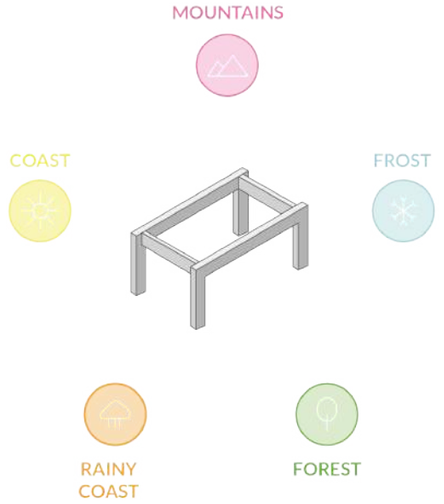
The Problem



Bioclimatic zones of Peru

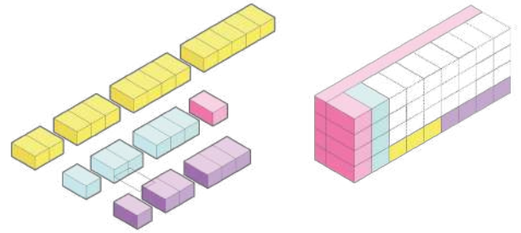
Deficient educational infraestructure fails to meet the standards to bioclimatic and geografical diversity of Peru.

Solution

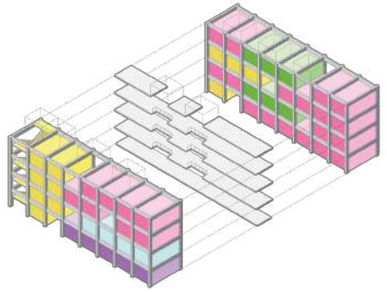


Catalogues of Modular Schools for each bioclimatic zone of Peru.

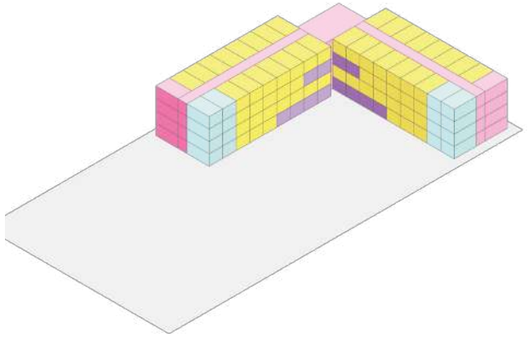
Assembly steps



1. Architectural educational program

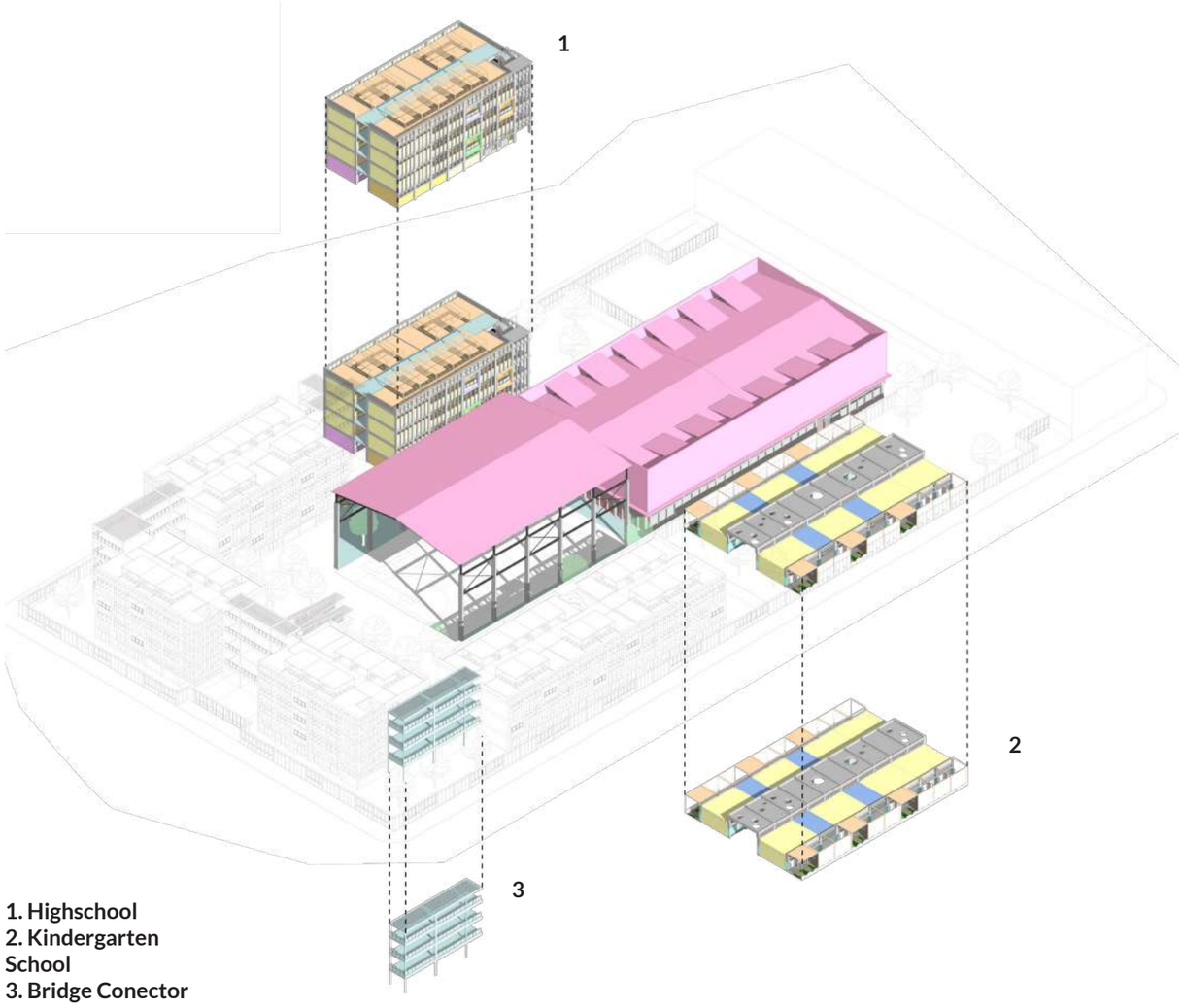


2. Assembly process of a modular pavillion



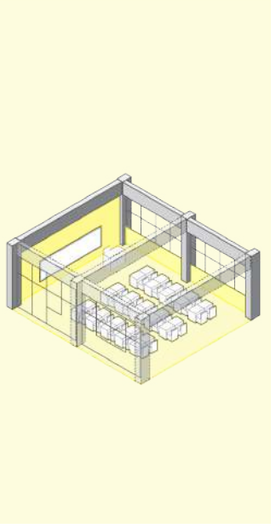
3. Educational Pavillions placed in the terrain

Assembly example

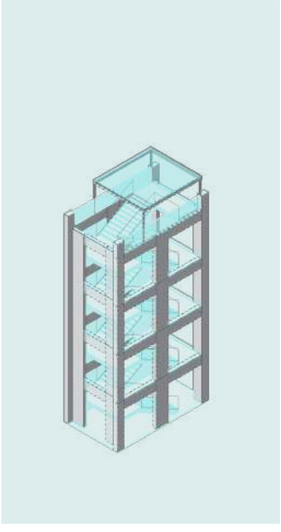


1. Highschool
2. Kindergarten School
3. Bridge Conector

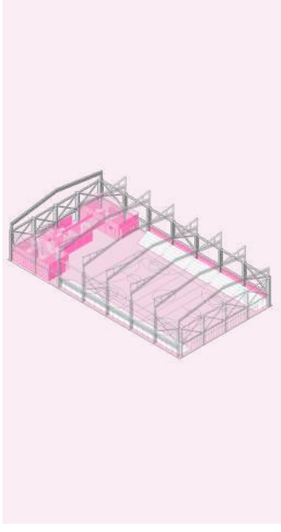
Classrooms



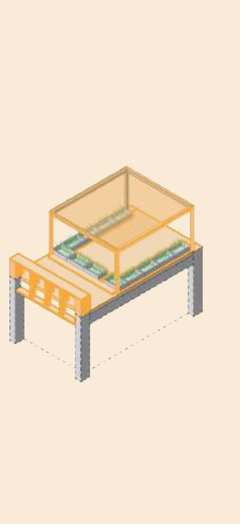
Stairs and circulation



Sport and comunal spaces



Especial Modules



Type of modules

- Classrooms
- Stairs and circulation
- Sport and comunal spaces
- Especial Modules
- Other educational spaces

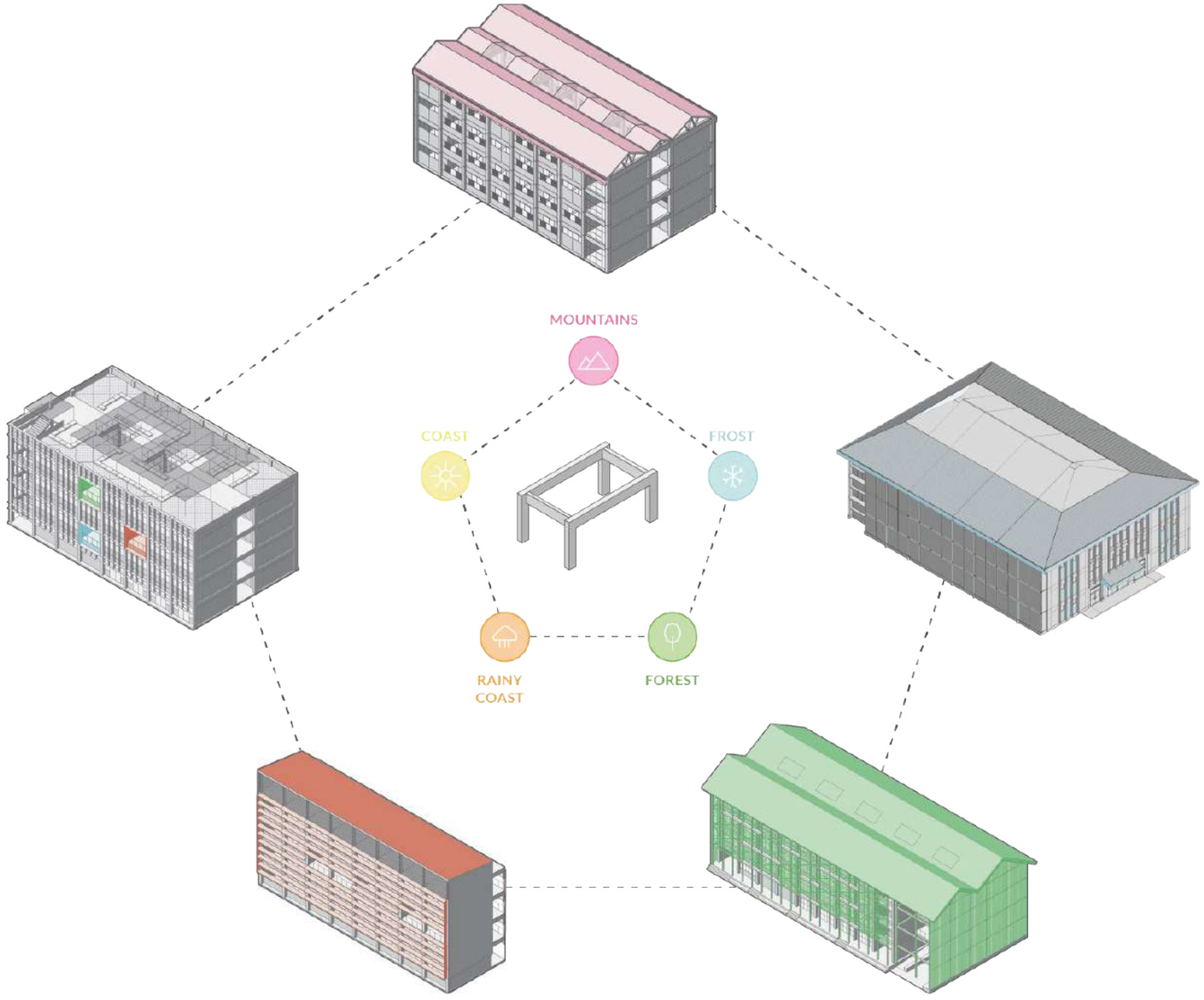
Floor plan

Positive impact of this project

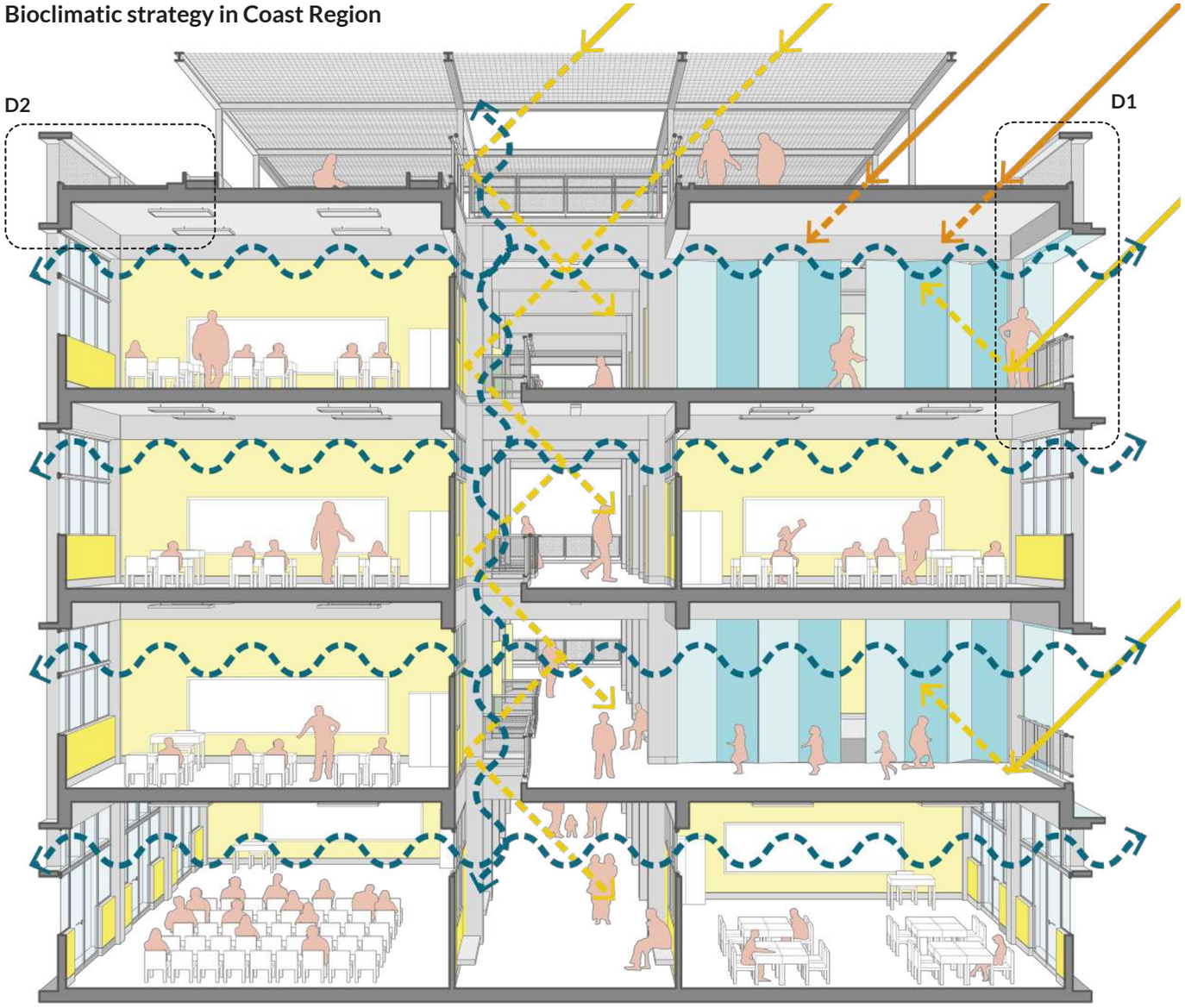
+139,000 students

7 Regions of Peru

75 projected schools



Bioclimatic strategy in Coast Region



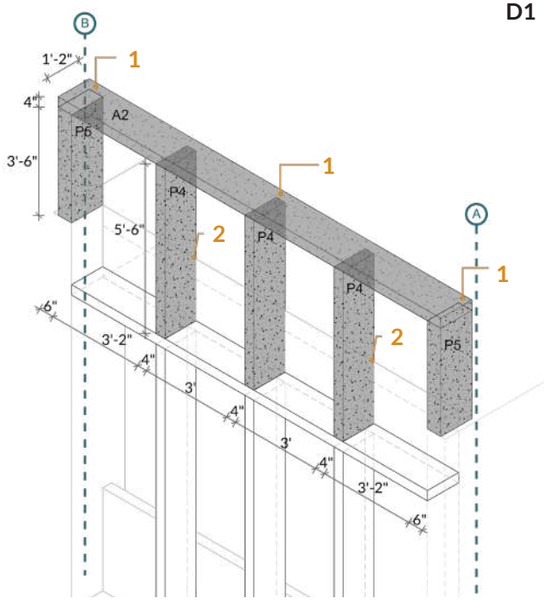
D1

1. Anchor between panels
2. Fiberglass concrete panels

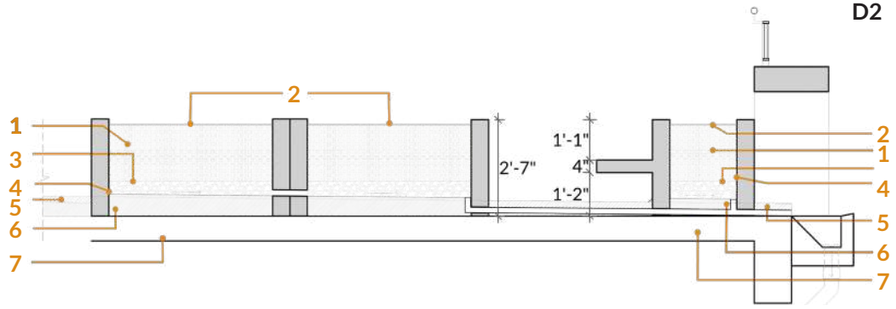
D1

1. Sand + Earth Compost
2. Vegetation
3. Filtering sheet
4. Anti-root isulating membrane
5. Semi-polished concrete floor
6. Cementitious membrane with EPS beads
7. Slab

D1

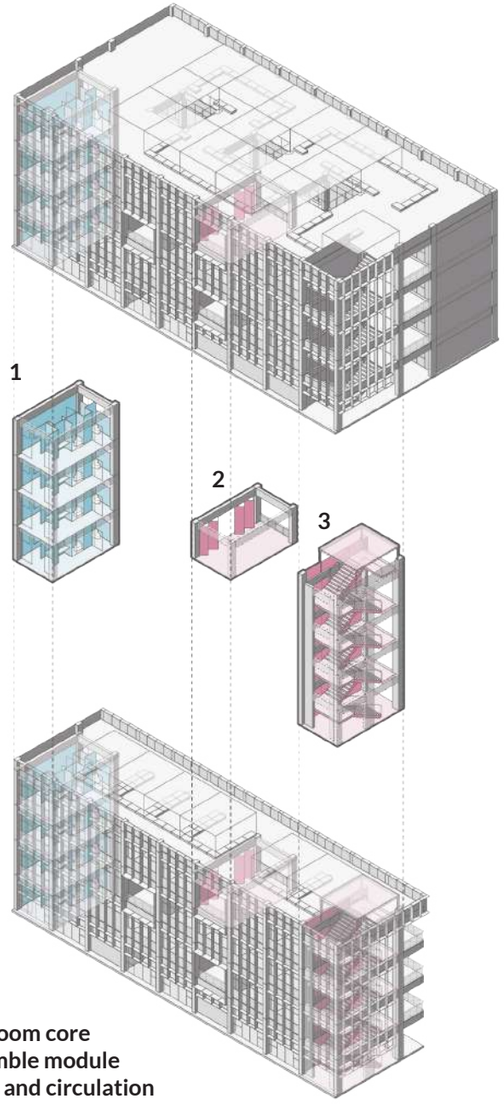


D2

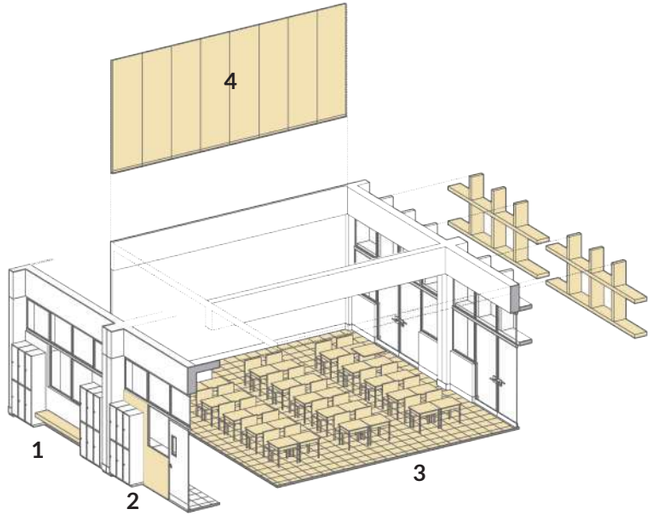


1. Solar radiation
2. Isolation term
3. Ventilation

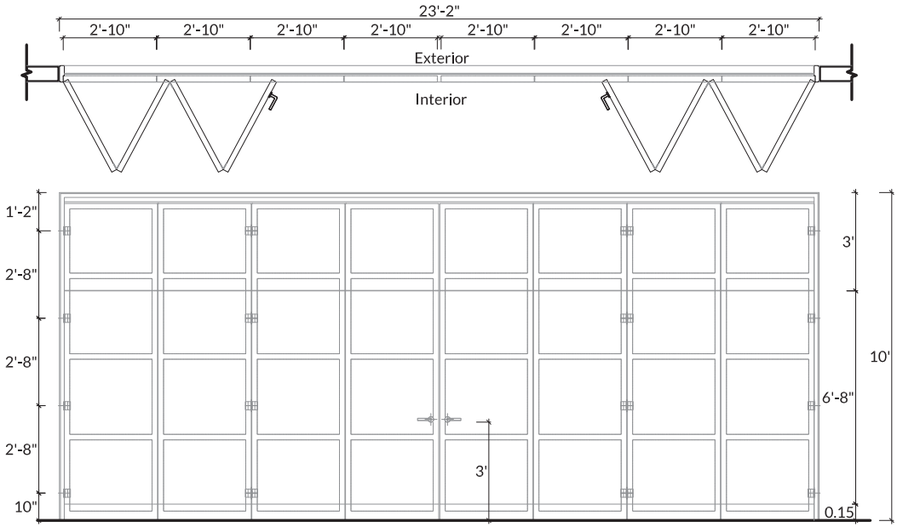
Construction Details



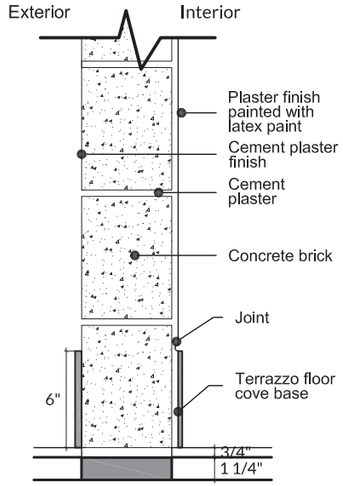
1. Restroom core
2. Assemble module
3. Stairs and circulation



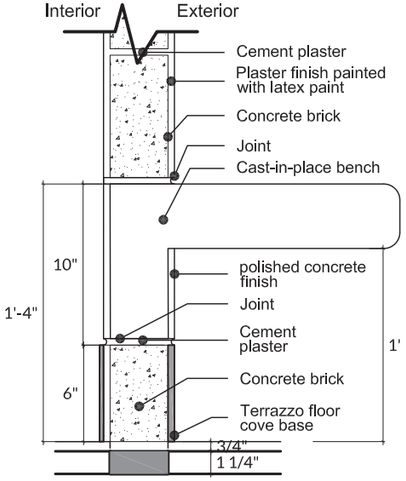
Typical details legend in a classroom



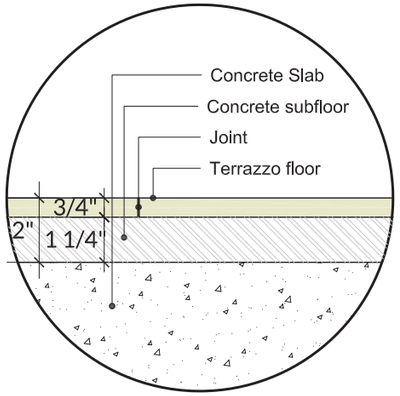
4. Door Detail



1. Wall Section



2. Bench Section



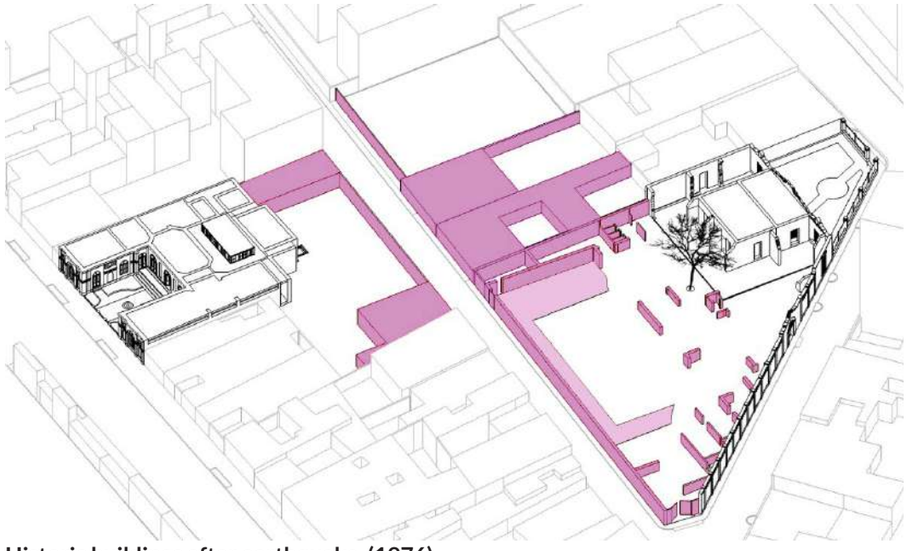
3. Floor Detail

Music Center in Chorrillos

Lima, Peru

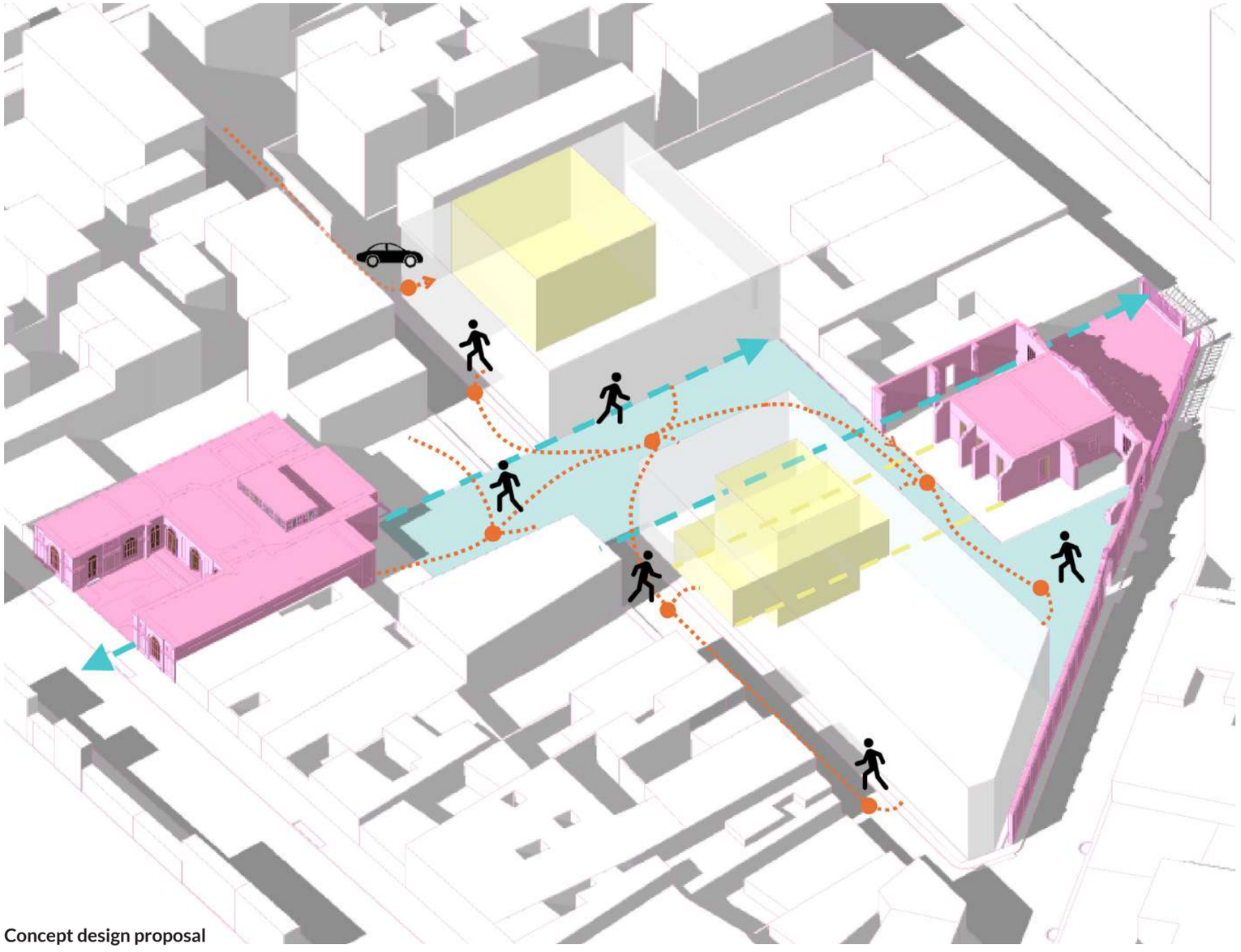
One of my strongest professional motivations is the preservation of Peruvian cultural heritage. This project is located in Chorrillos, a historic district rich in heritage but affected by war, natural disasters, and the desertion of urban areas.

The proposal aims to revitalize two historic houses—Casa de la Cultura de Chorrillos and the Mariano Ignacio Prado Villa—through an urban intervention that connects them with a new public building: a Music Development Center. This center is designed to enhance Peru's cultural infrastructure by offering performance spaces and music classrooms for children, youth, and adults.

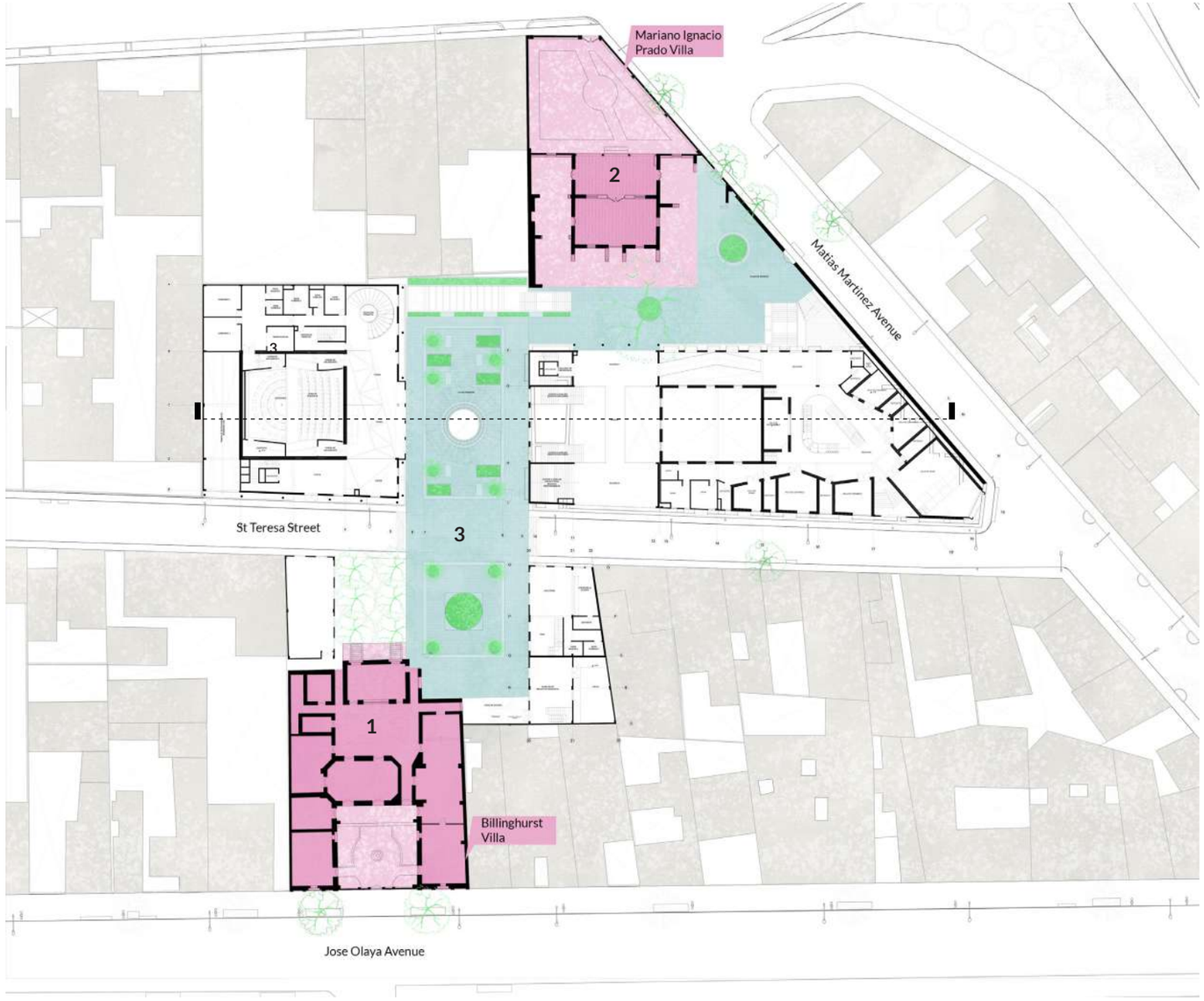


Historic buildings after earthquake (1976)

Existing buildings issues



Concept design proposal



1. Billinghurst Villa 2. Mariano Ignacio Prado Villa 3. Main public space

Proposal for the urban regeneration

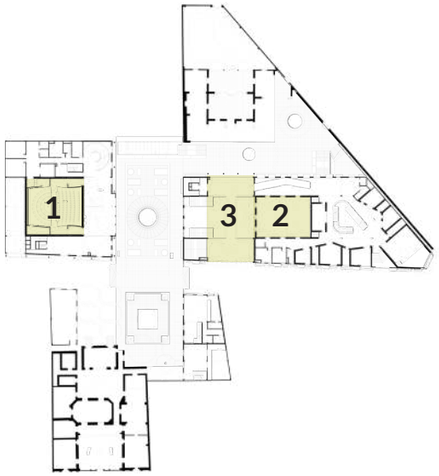
Existing buildings issues

Midi Visualization of the song “La Flor de la Canela” - Chabuca Granda

Design of the Facade

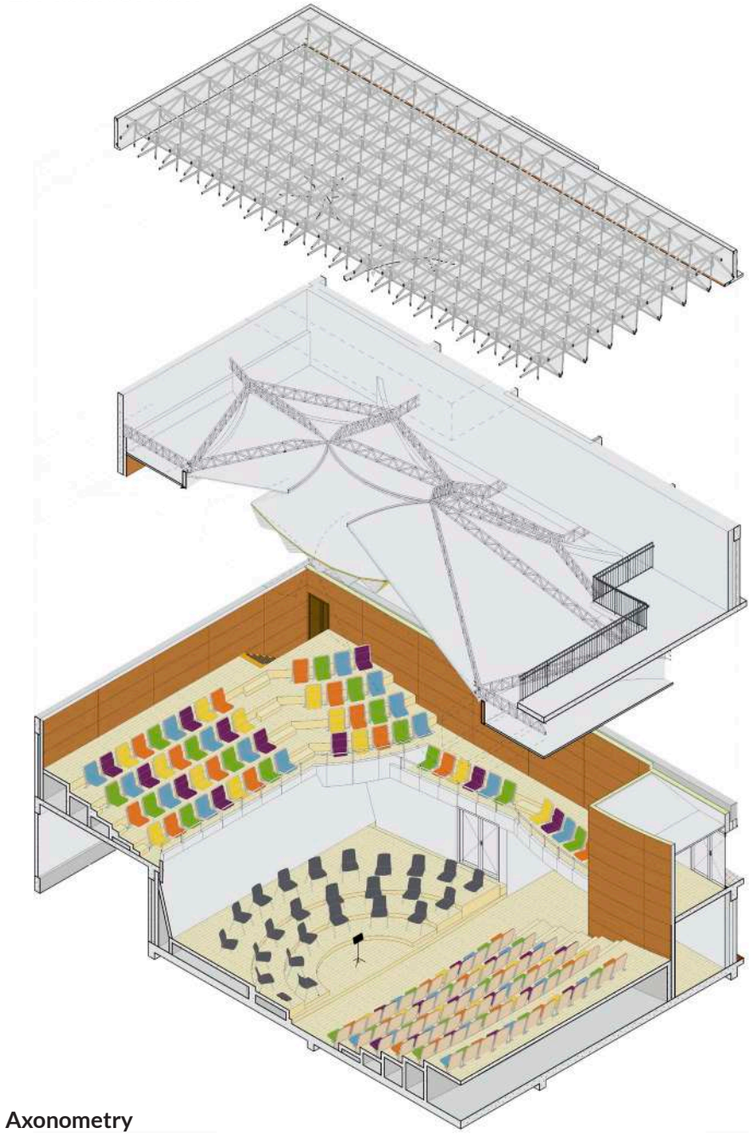
The new architecture respects the original facades while introducing an innovative interior. Interior spaces are acoustically optimized to support both professional and amateur musical education.

Longitudinal Section

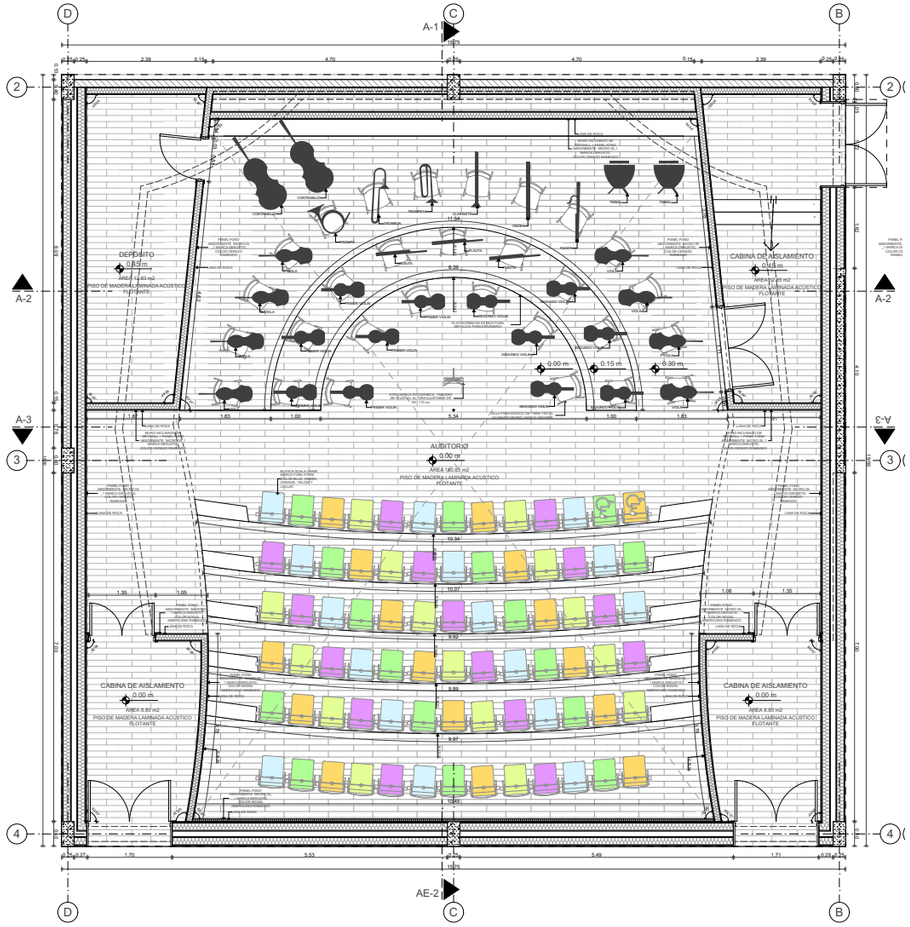


Legend of main spaces
1. Auditorium
2. Rehearsal Room
3. Gallery

1. Auditorium

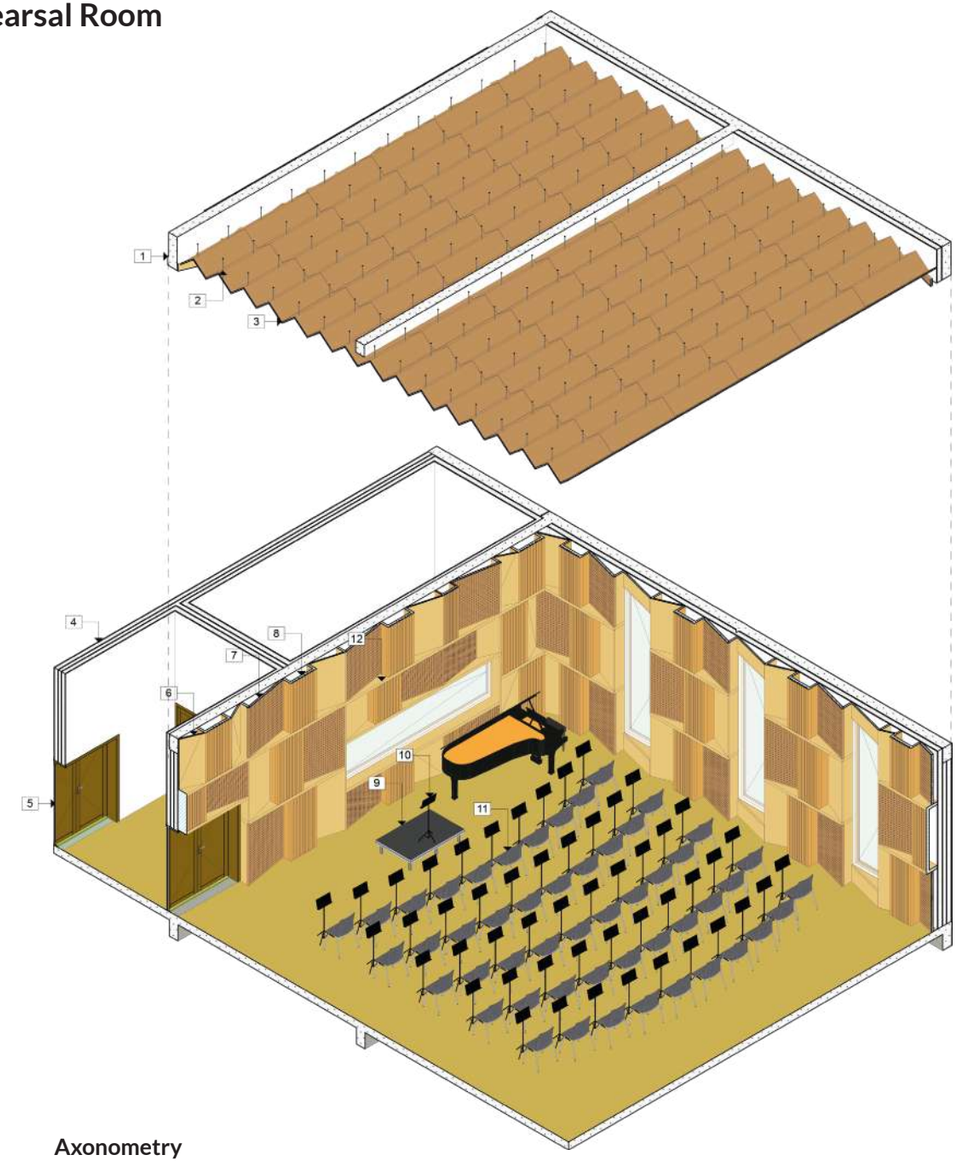


Axonometry



Enlarged floor plan

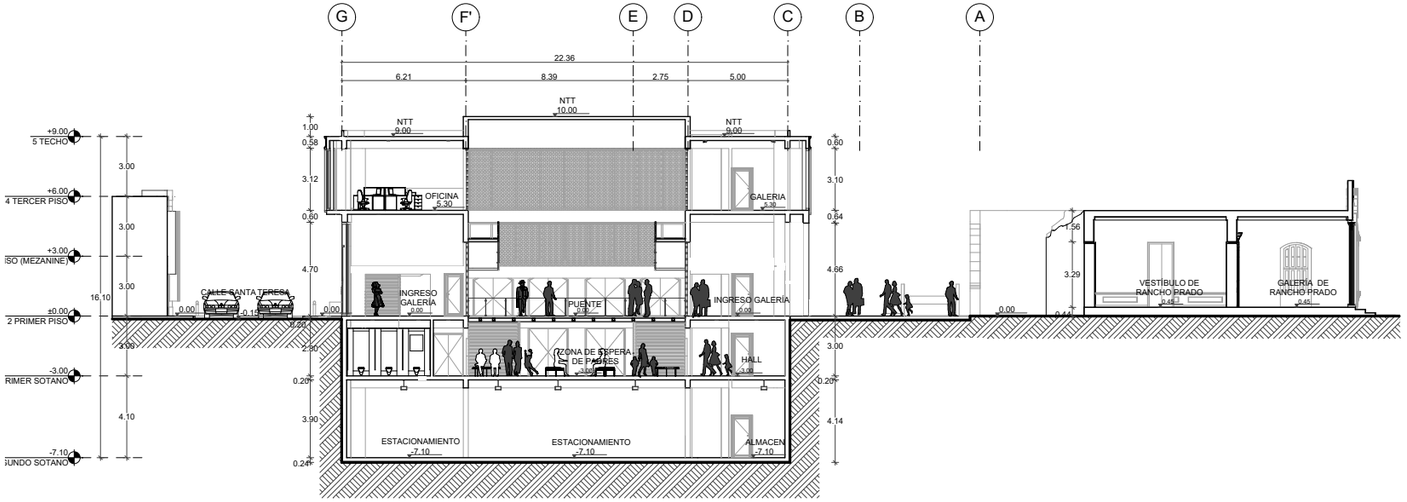
2. Rehearsal Room



Axonometry

Interior view

3. Gallery



Section of Gallery bridges and conection with cultura heritage building

Exterior view

Interior view

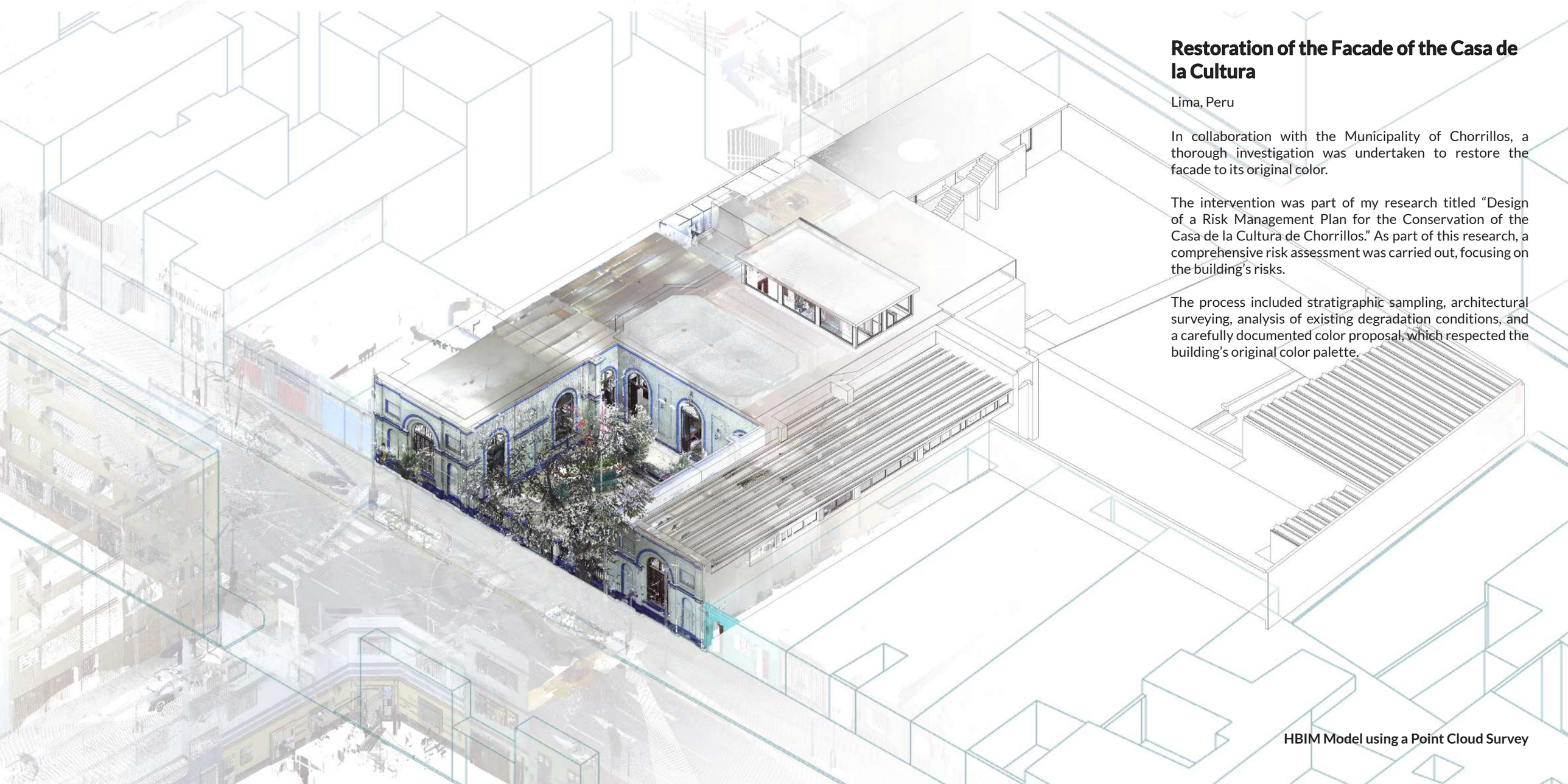
Restoration of the Facade of the Casa de la Cultura

Lima, Peru

In collaboration with the Municipality of Chorrillos, a thorough investigation was undertaken to restore the facade to its original color.

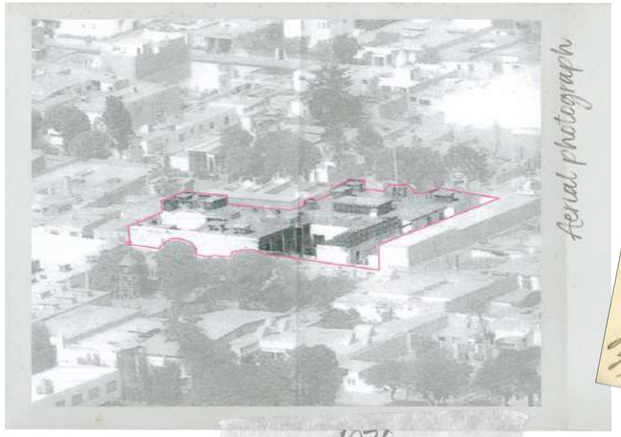
The intervention was part of my research titled “Design of a Risk Management Plan for the Conservation of the Casa de la Cultura de Chorrillos.” As part of this research, a comprehensive risk assessment was carried out, focusing on the building’s risks.

The process included stratigraphic sampling, architectural surveying, analysis of existing degradation conditions, and a carefully documented color proposal, which respected the building’s original color palette.



HBIM Model using a Point Cloud Survey

Historic reseach of the architectural changes through time



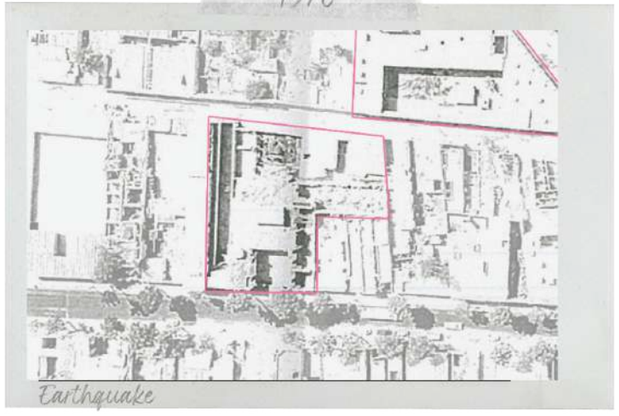
1970

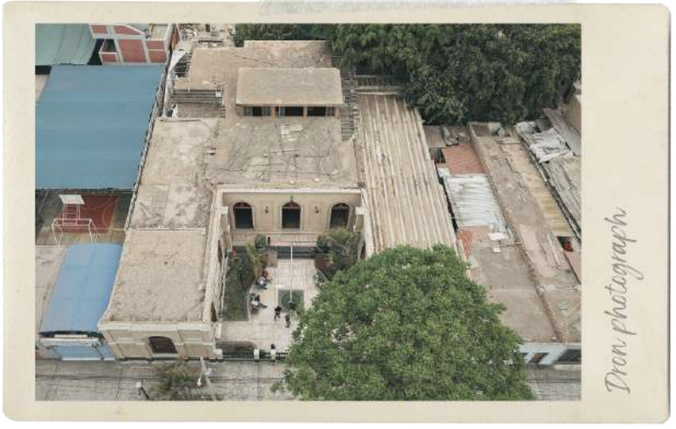
2025

2024

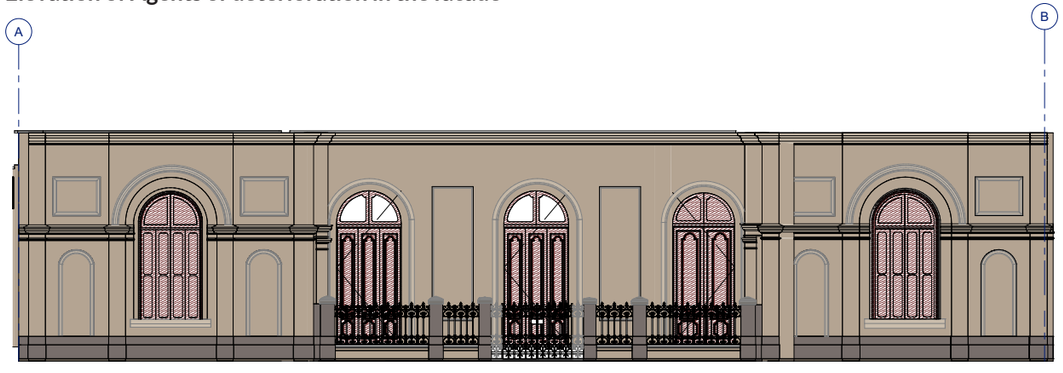
1881

1976





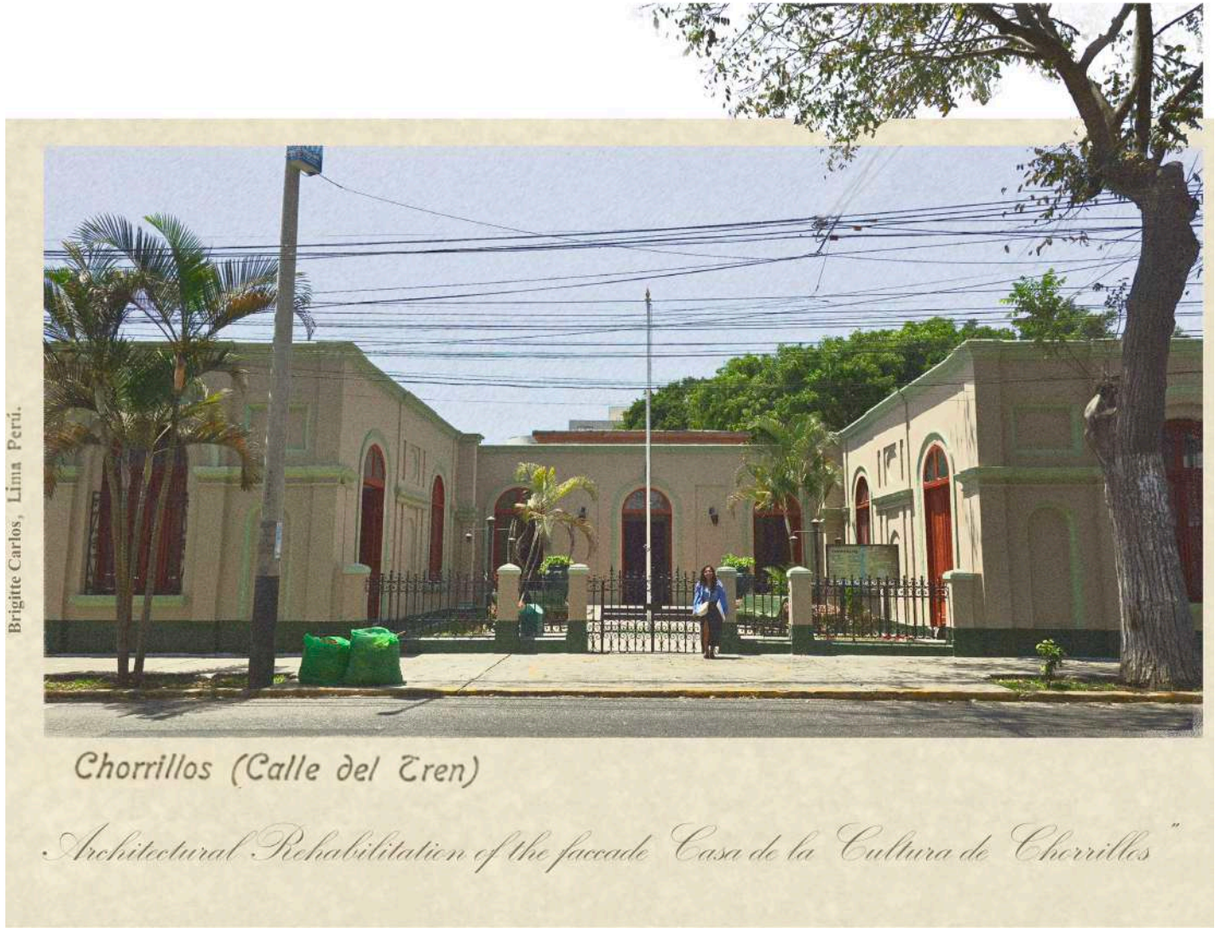
Elevation of Agents of deterioration in the facade



Elevation Color Combiation Proposal

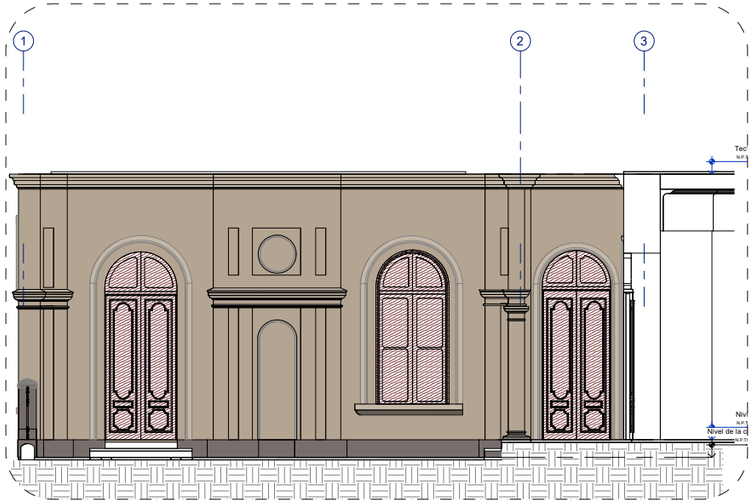
One of the main deterioration agents identified was rising damp, due to the building's proximity to the Pacific Ocean.

“Calle del Tren” Postal (1870-1936)

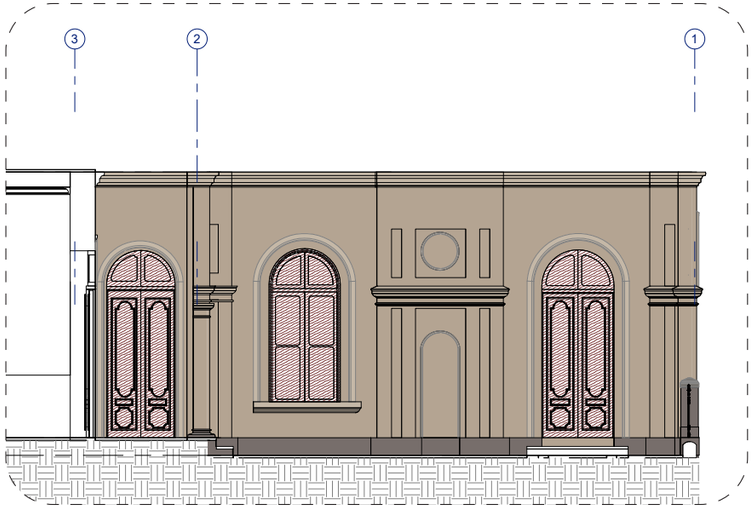


Faccade intervation (2025)

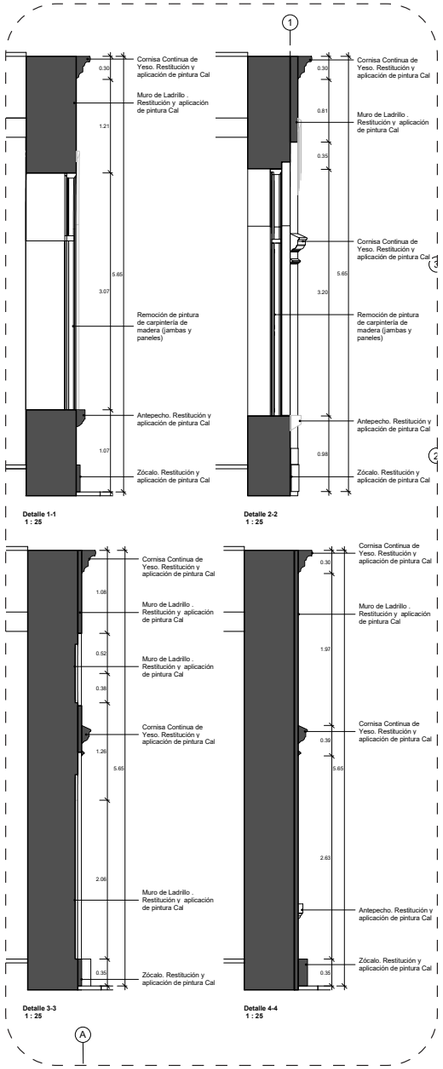
Construction Details



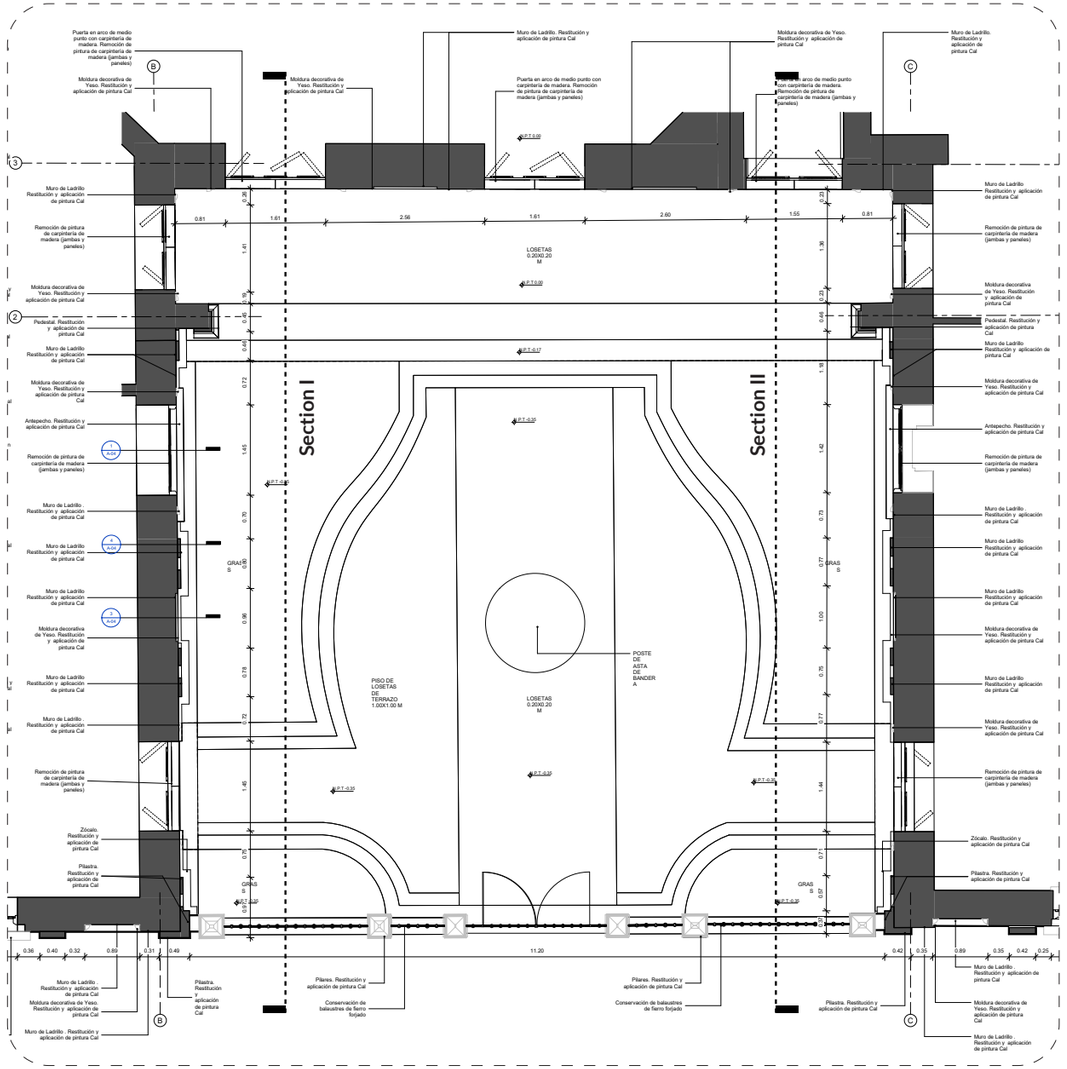
Section 1



Section 2



Wall Details



Enlarged Plan Faccade

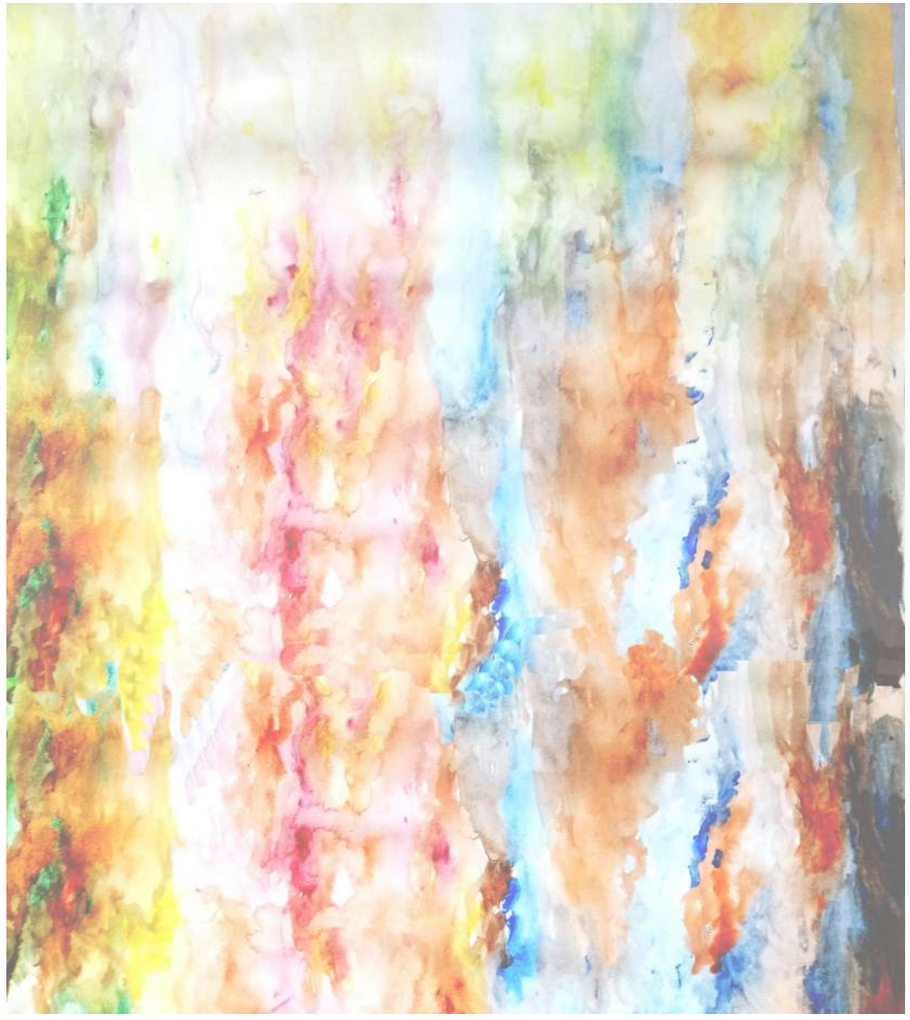
Ministry headquarter Complex

San Borja, Lima

The Peruvian government is composed of 18 ministries, many of which have offices scattered throughout Lima, making inter institutional coordination difficult. This project proposes a new government office complex, strategically located in San Borja, near major public institutions such as the Ministry of Culture, Ministry of Education, the National Library, and the National Convention Center.

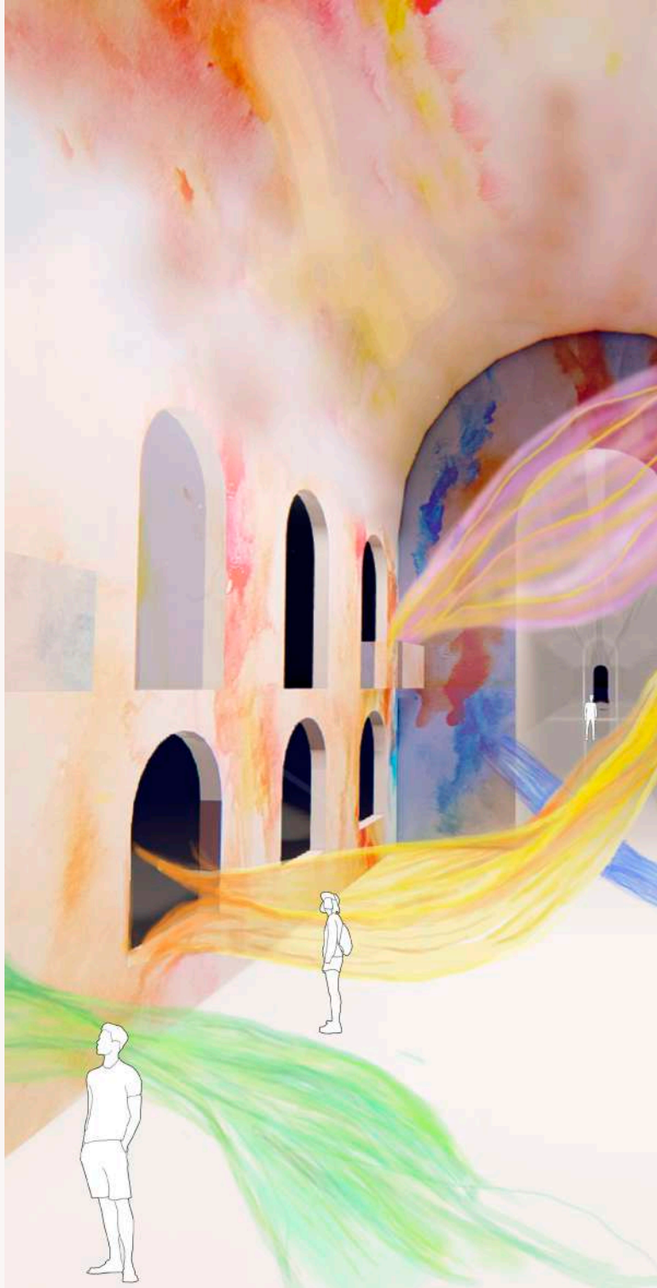
1. Existing Institutional buildings **2. Urban Axis** **3. Ministry headquarter** **4. Aerial train**

The design includes an urban axis that connects the new complex with the surrounding institutional buildings, fostering integration and accessibility.



A painting as the facade concept

The faccade is wrapped in a colorful glass inspired by a painting I created specifically for this project, as a personal exploration of how color can influence workplace environments.



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