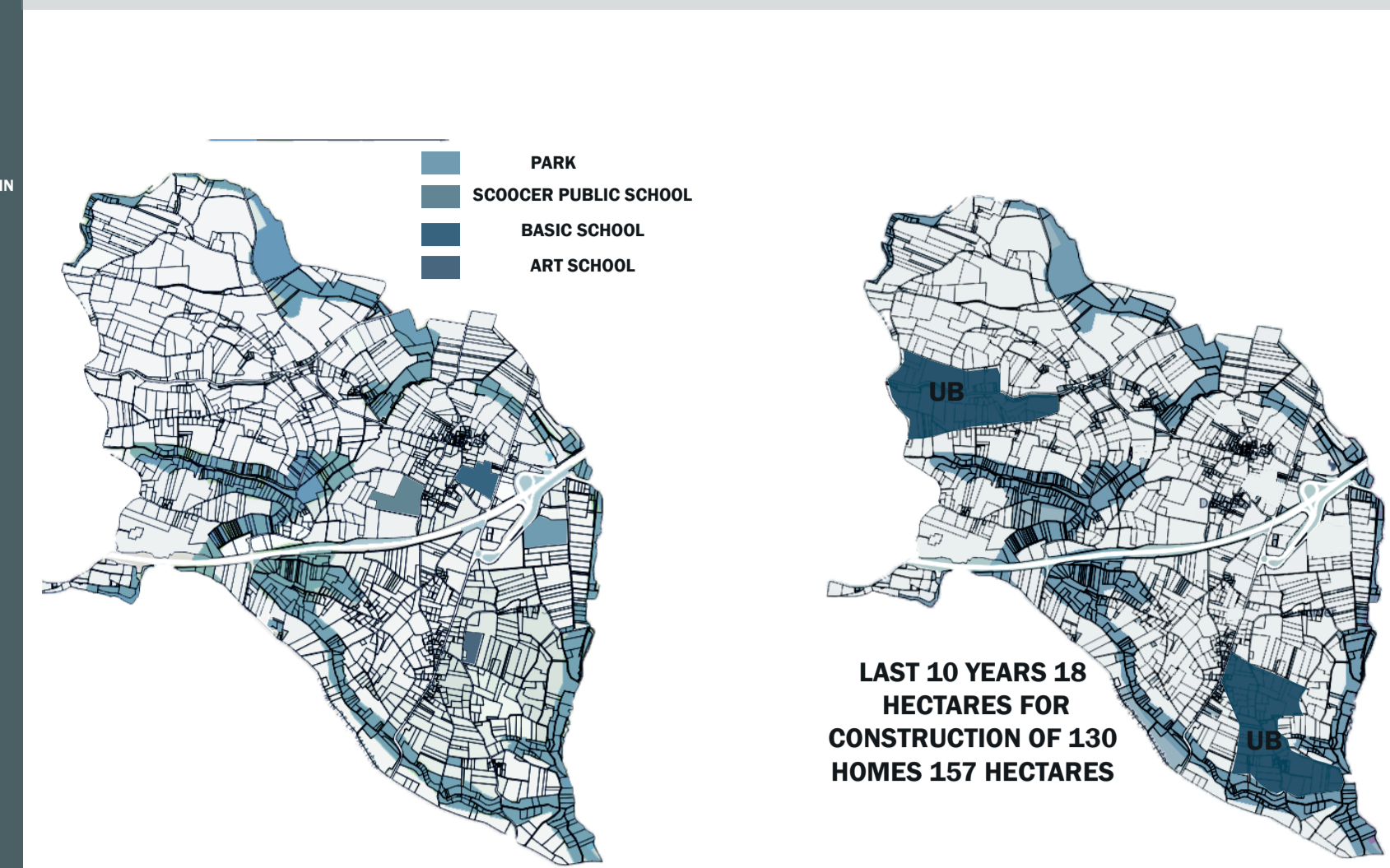


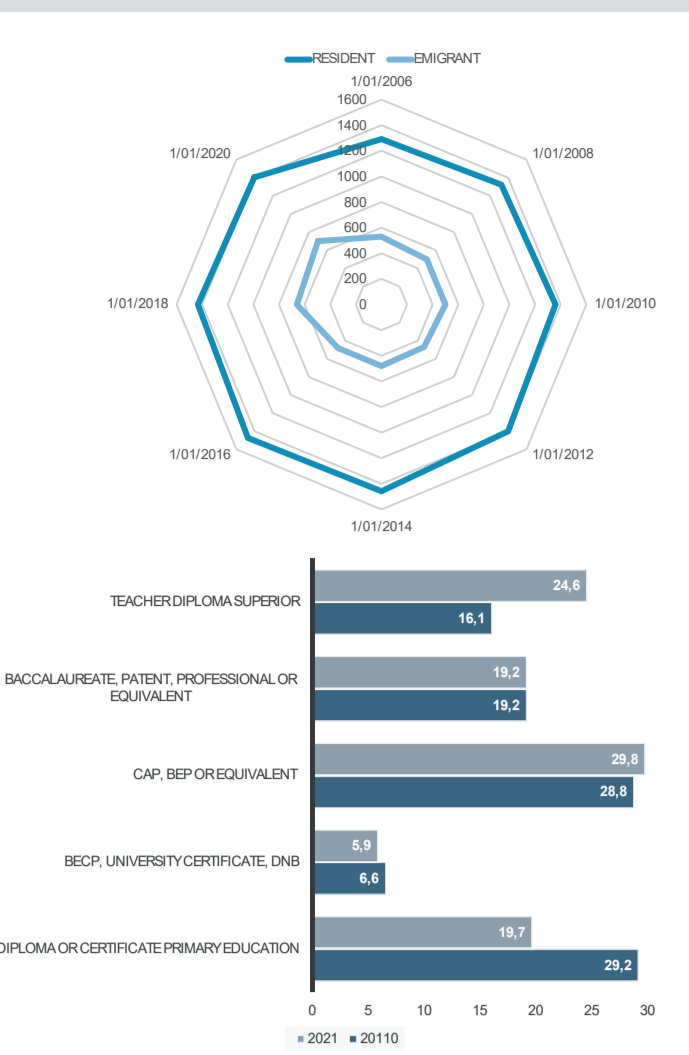
TERRITORIAL TRANSFORMATIONS AND COMMUNITY INFRASTRUCTURE CHALLENGES

CHIMILIN APPROACH

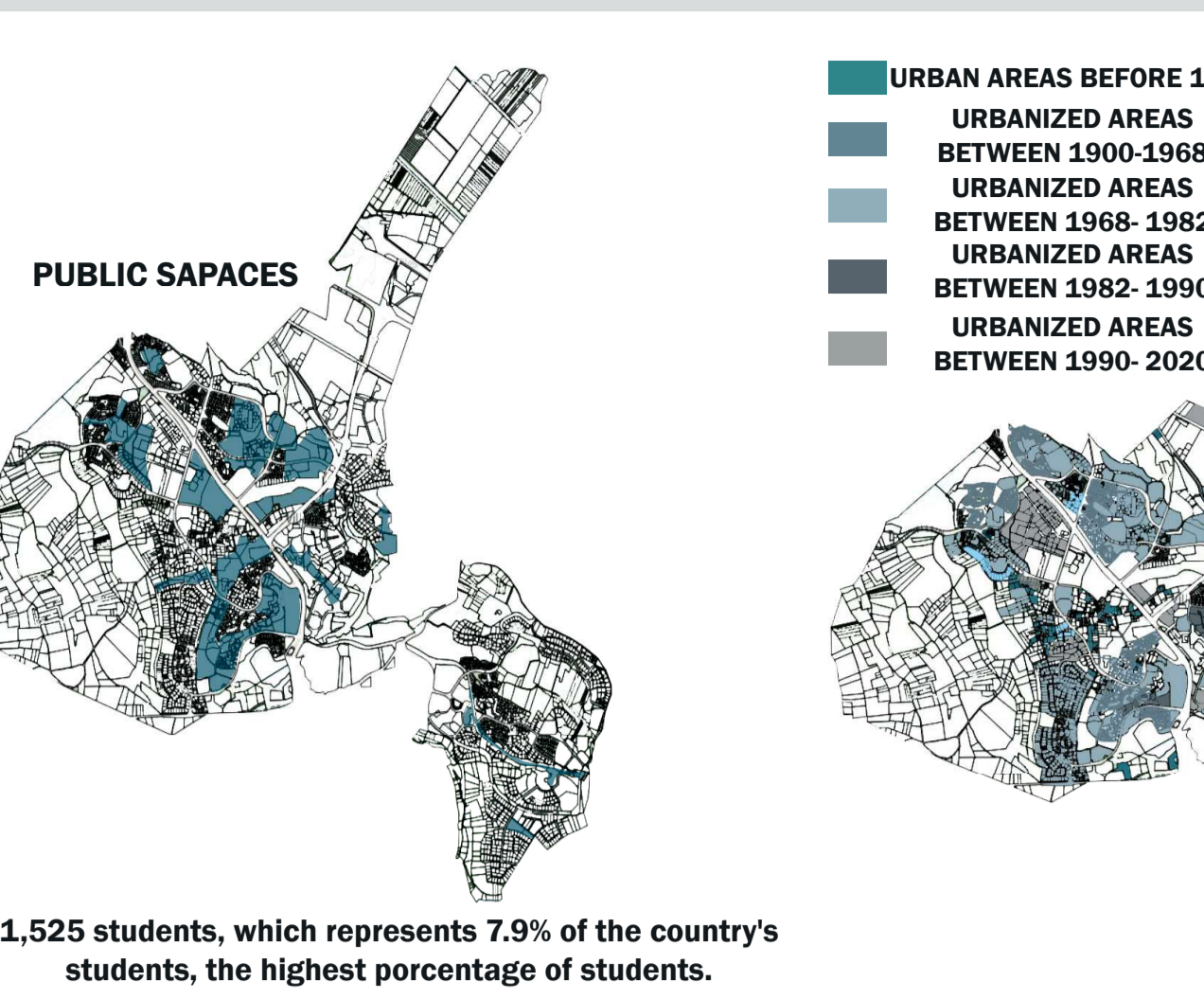
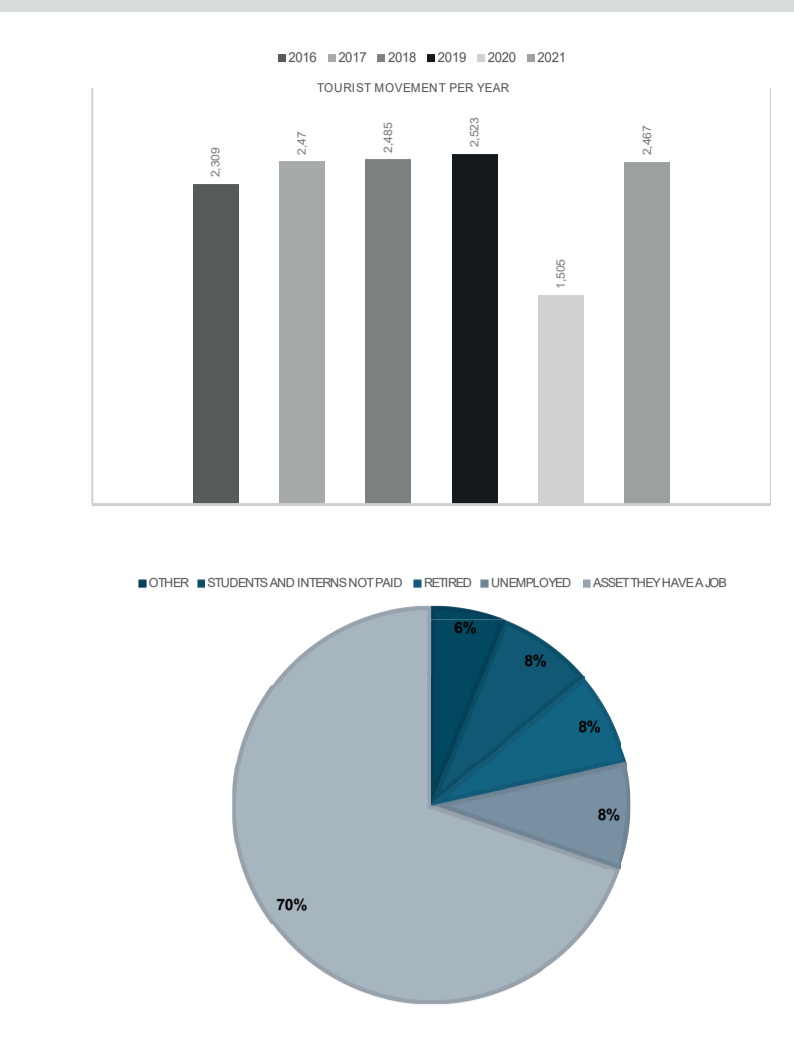
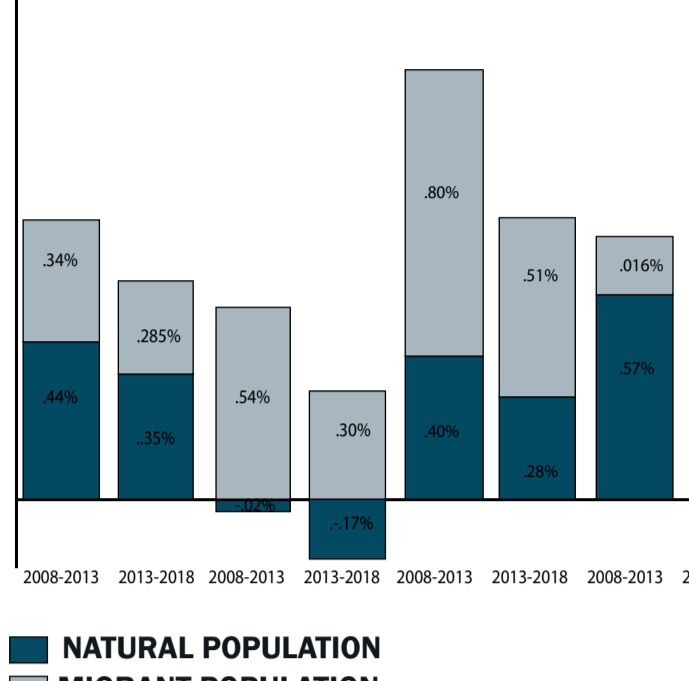
VILLEFONTAINE APPROACH



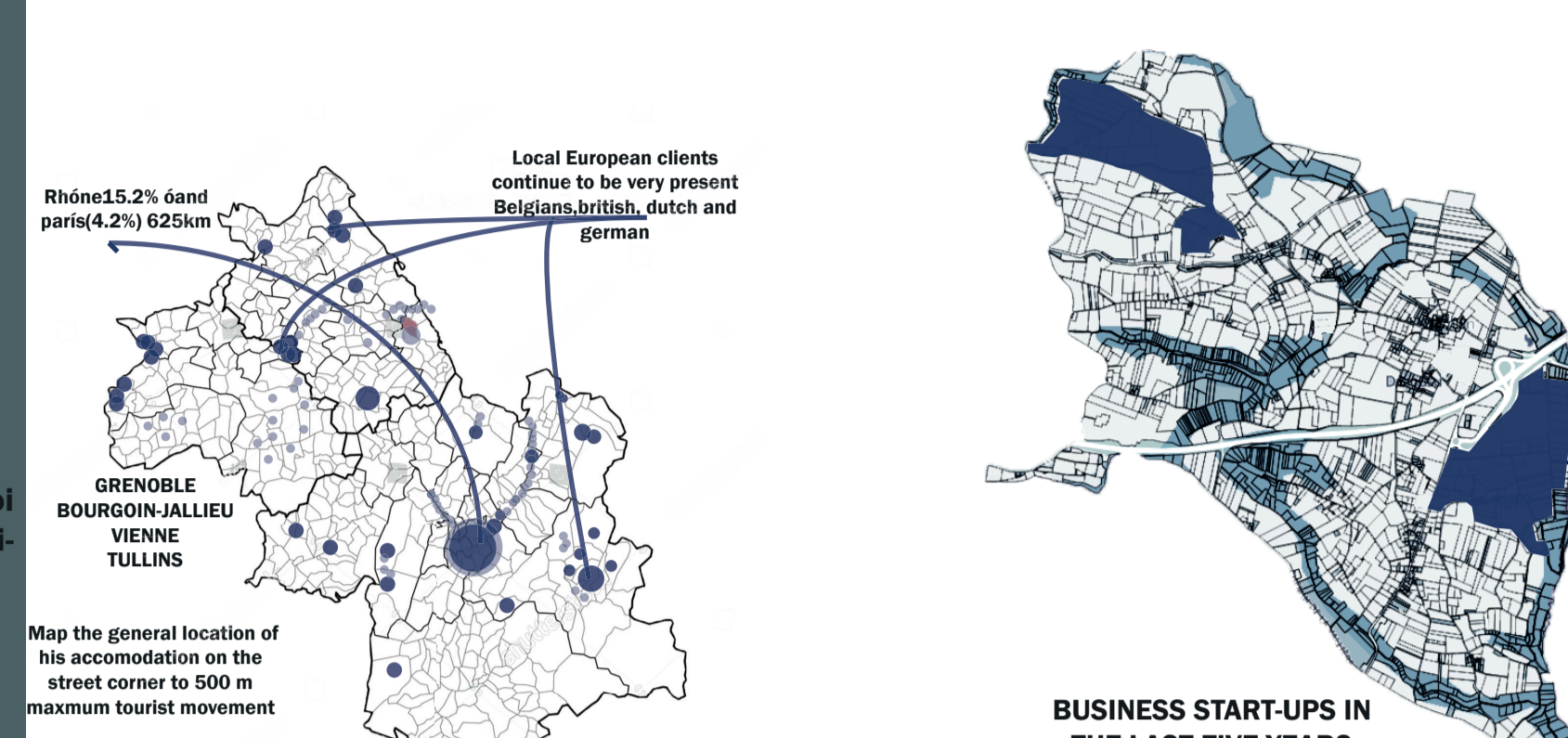
LAST 10 YEARS 18 HECTARES FOR CONSTRUCTION OF 130 HOMES 157 HECTARES



POPULATION

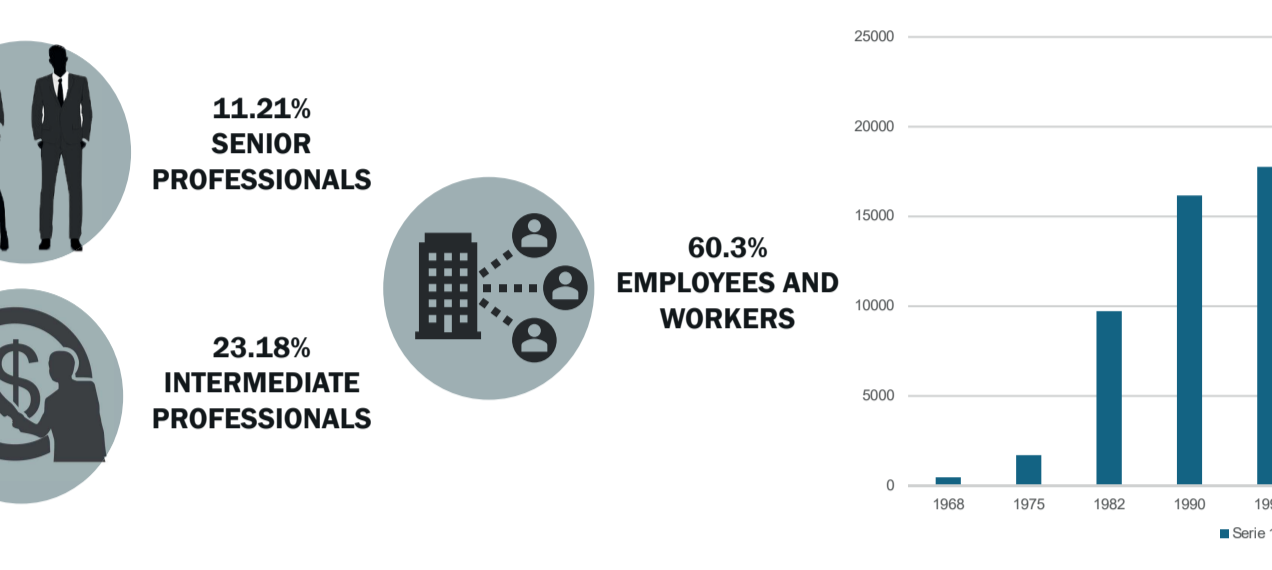
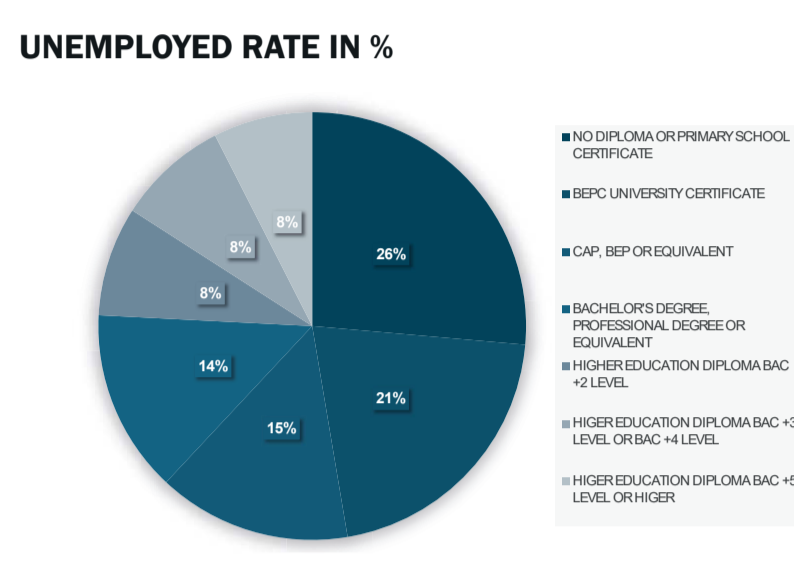
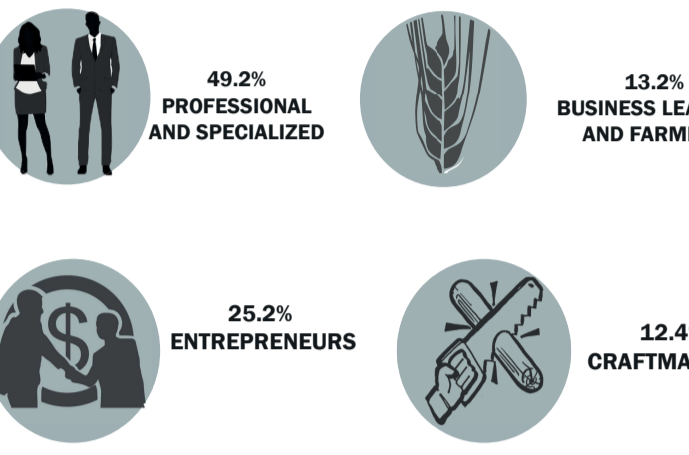
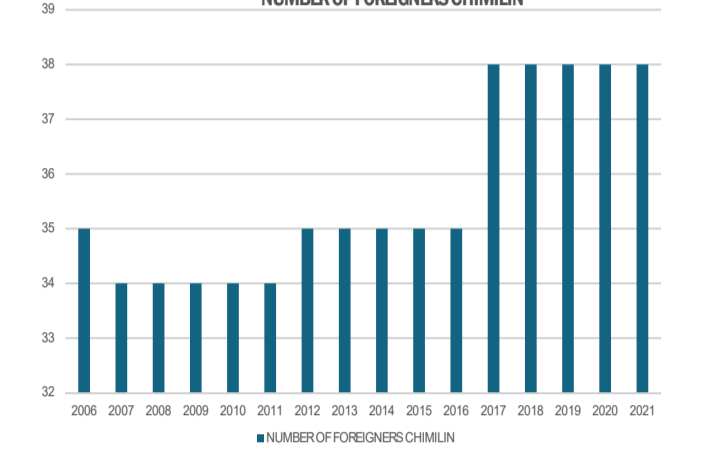
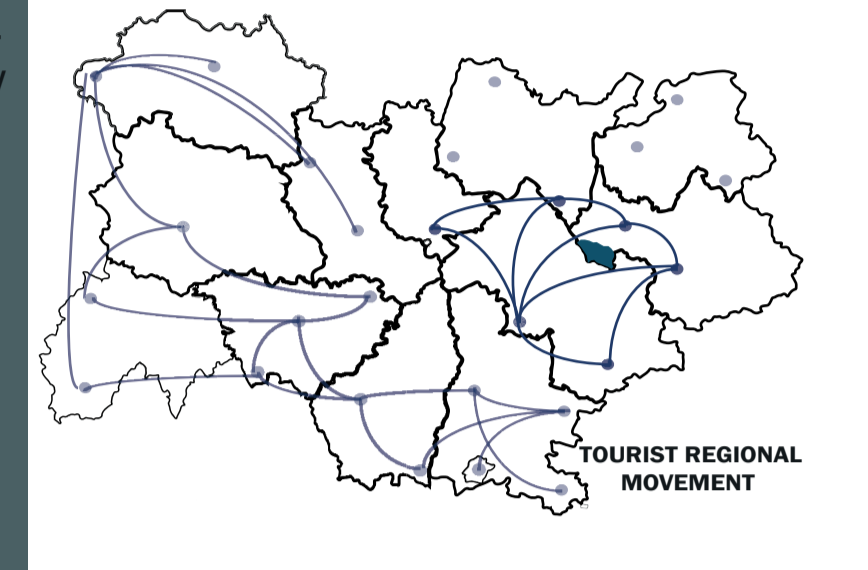


1,525 students, which represents 7.9% of the country's students, the highest percentage of students.

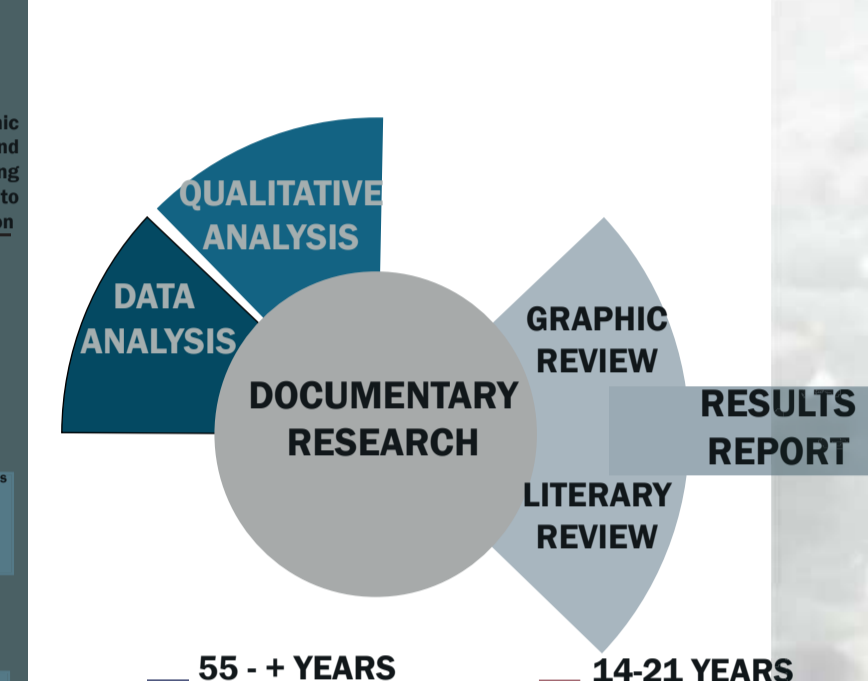


BUSINESS START-UPS IN THE LAST FIVE YEARS

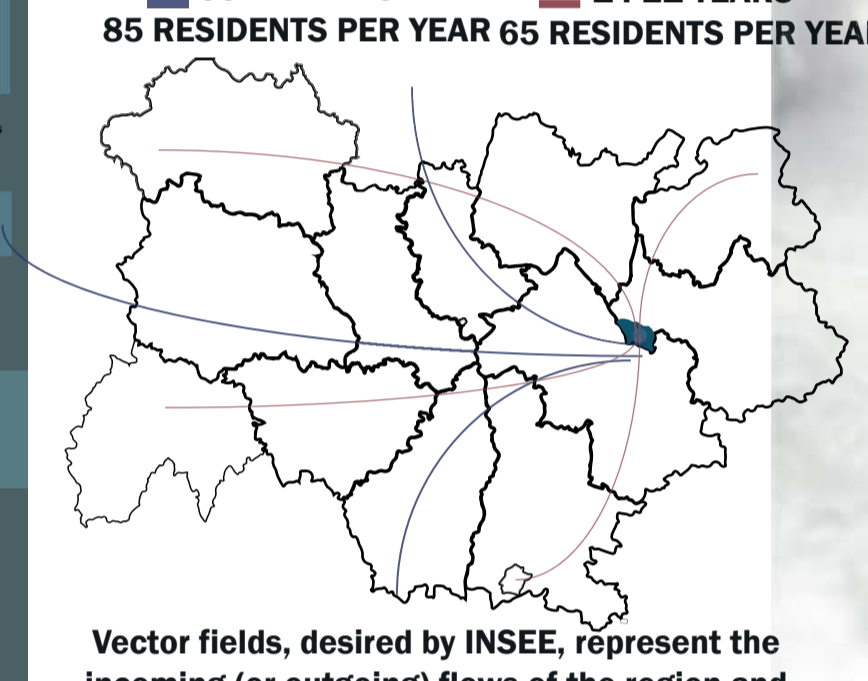
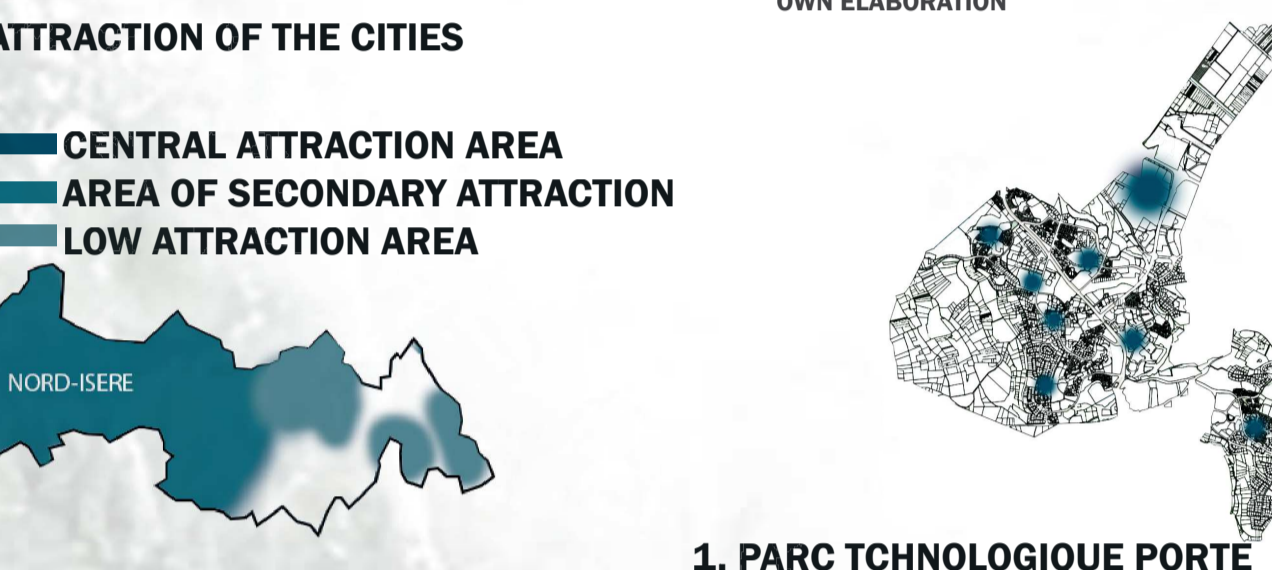
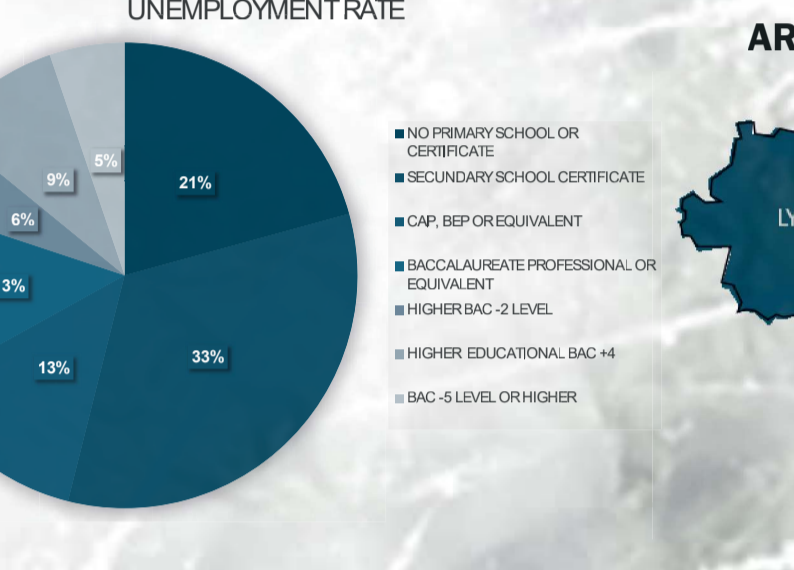
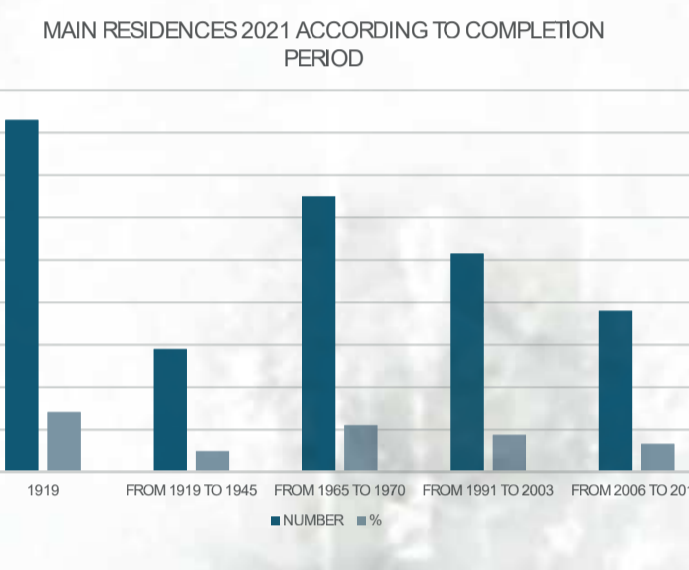
REGIONAL TOURISM IMPACT CHIMILIN



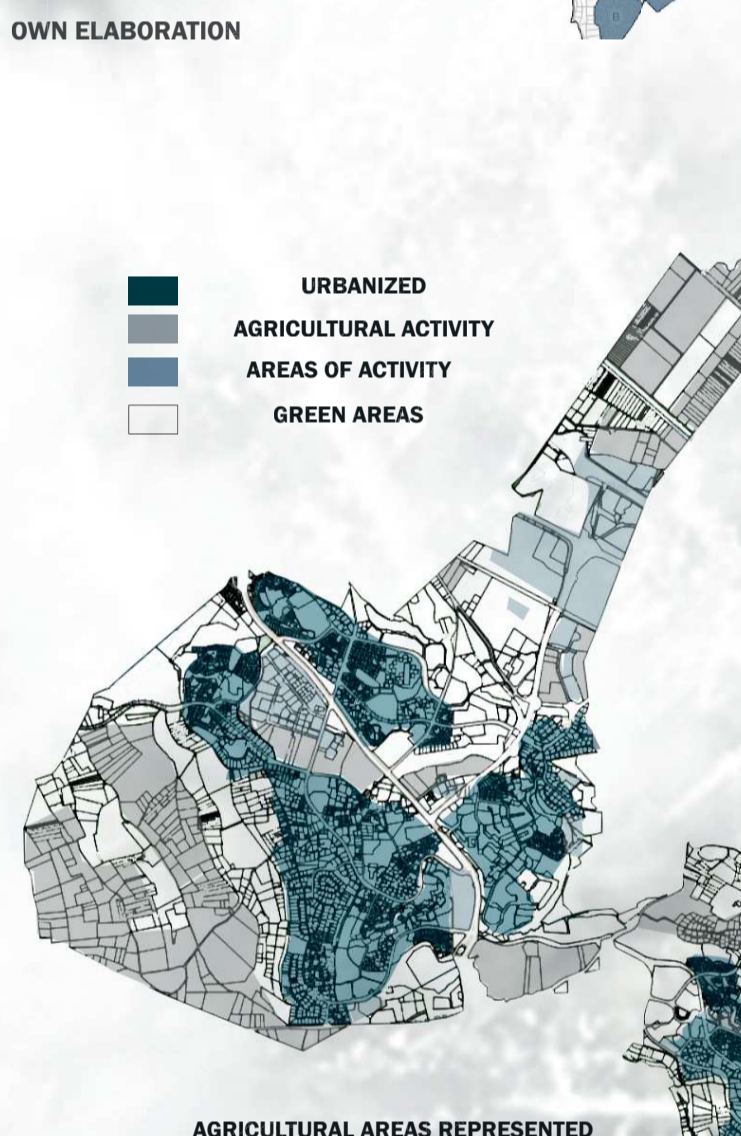
METHODOLOGY



AESTHETIC HERITAGE
 -Library: Is part of the network of libraries of the Vals du Dauphiné, located in the Parc du Cellier, young public, structural deterioration without recent active partial plans.
 -Church: Subject to the conservation standards required and approved by the local authorities and the Regional Directorate, however, it is in a critical state due to disuse and lack of regulation and maintenance.



SECTOR OF SPECIFIC PRESCRIPTION FOR DOMINANT HISTORICAL URBAN FORMS
 -PREDOMINANCE OF RESIDENTIAL BUILDING
 -PREDOMINANCE OF RESIDENTIAL BUILDING IN THE OAP DU PONT SECTOR
 -PRESCRIPTIONS FOR LARGE SETS OF EQUIPMENTS
 -PRESCRIPTIONS FOR SETS ECONOMIC ACTIVITIES
 -PRESCRIPTIONS FOR ACTIVITIES IN THE BRAND VILLAGE



The Lyon-Turin railway, part of the Mediterranean Corridor of the Trans-European Transport Network (TEN-T), aims to reduce truck traffic in the Alps through faster, more efficient and environmentally friendly transport. Its key infrastructure is the 57.5 km Mont d'Ambrin Tunnel, one of the longest in the world.

It starts in Lyon, where it will connect with the LGV Sud-Est via a connection south of Lyon-Saint-Exupéry station. From there, you'll head east towards Italy, passing south of Chambéry via a tunnel under the Chartreuse Mountains

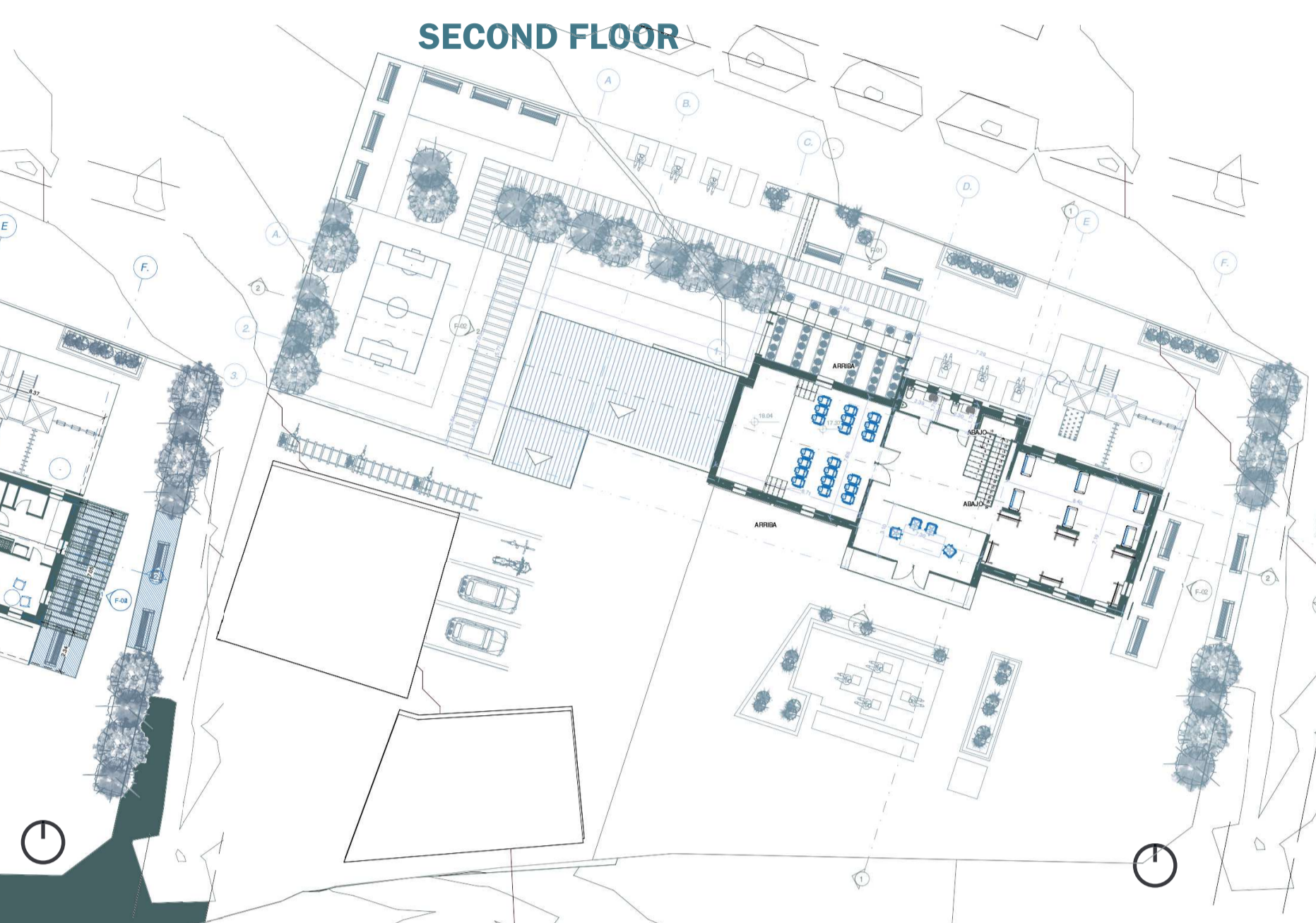
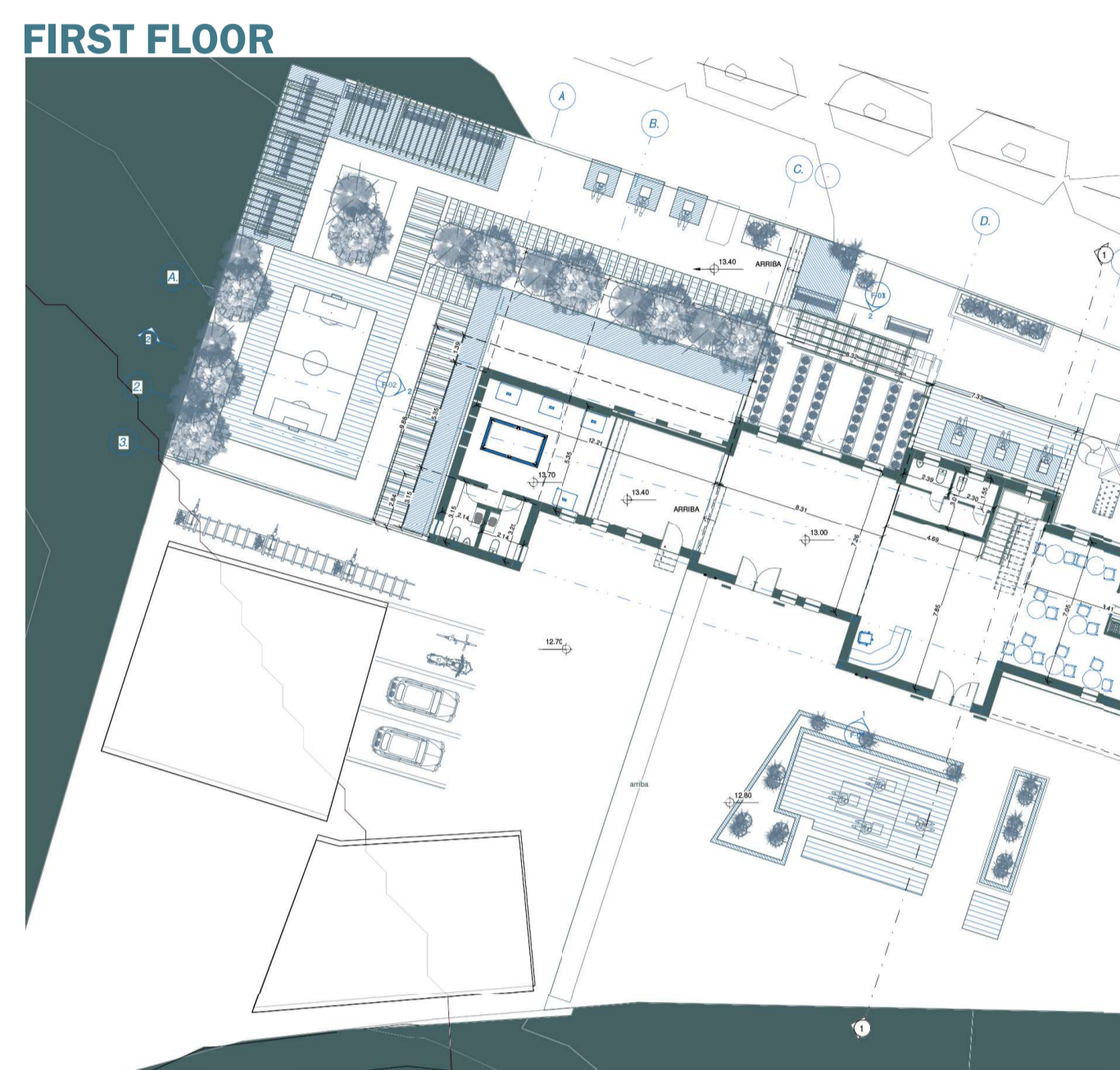
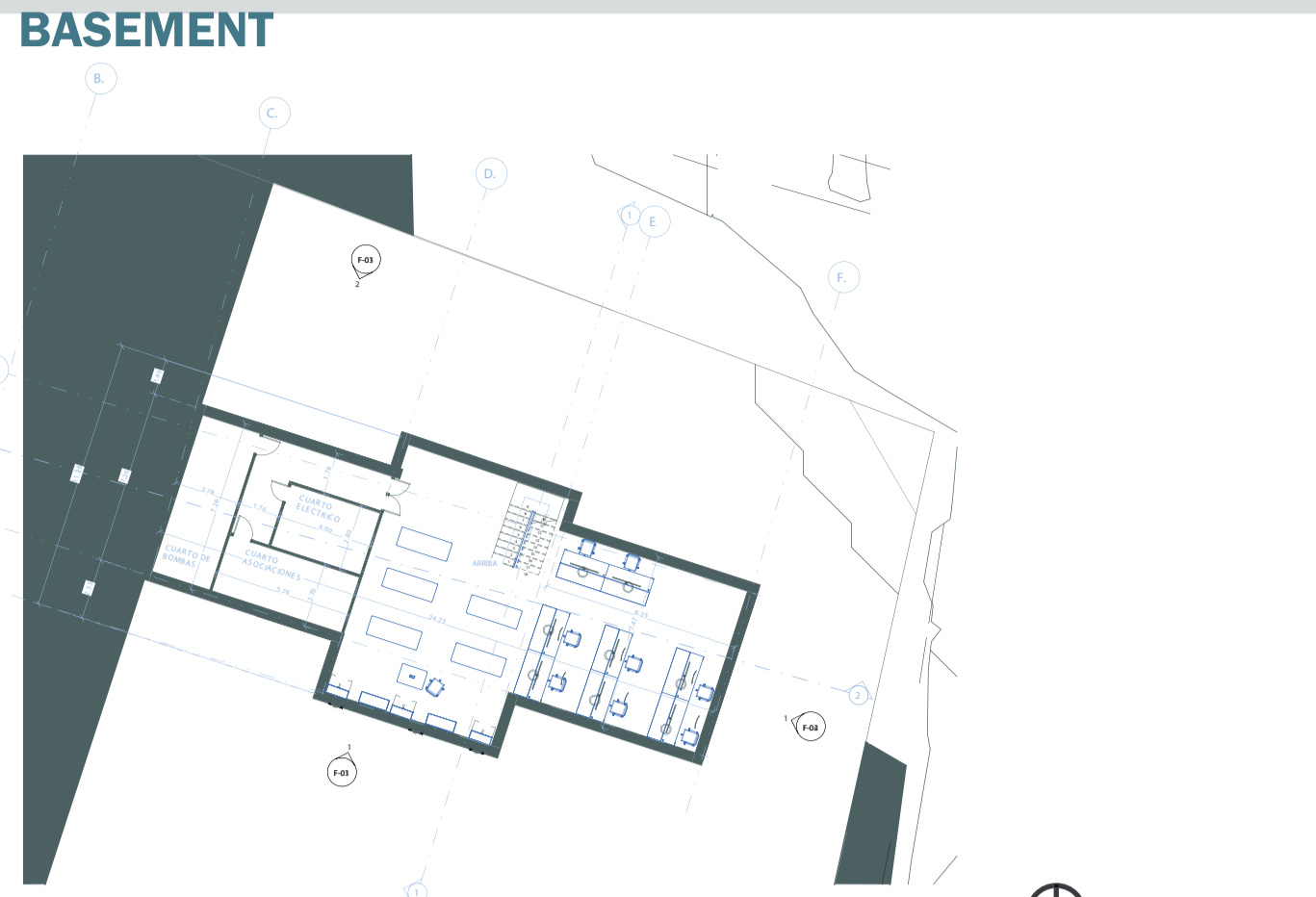
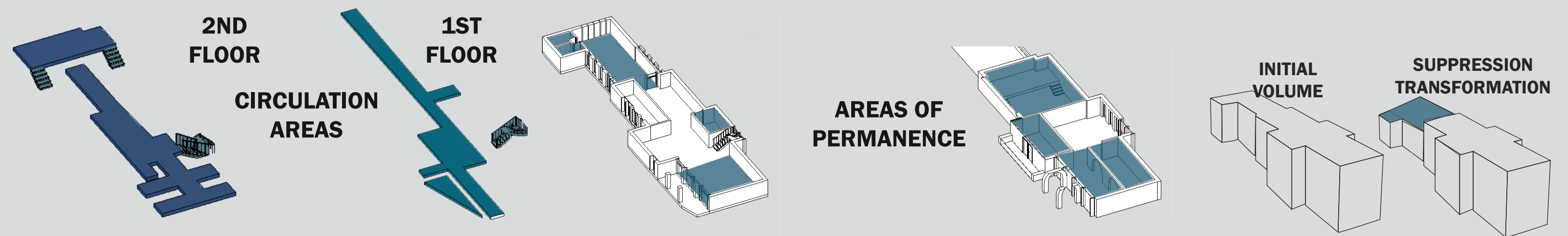


COMMUNITY CENTER

DESIGN DETERMINANTS

The proposal responds to various problems that the commune presents in a socio-economic and cultural context, which is why, first of all, it takes into account the total number of inhabitants of 1500 people and 27 active associations, which lack adequate spaces for community activities, assuming the challenge of attracting new visitors as young residents to the commune, with the aim of promoting the connection with Lyon-Turin on a larger scale.

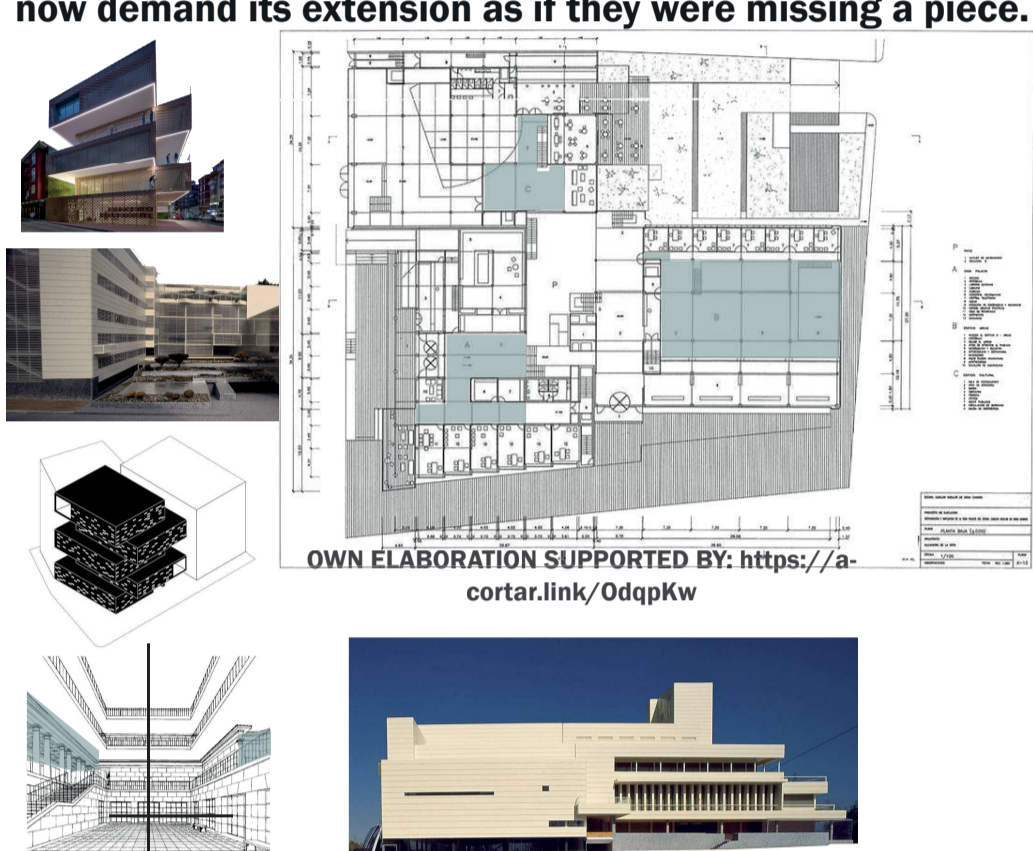
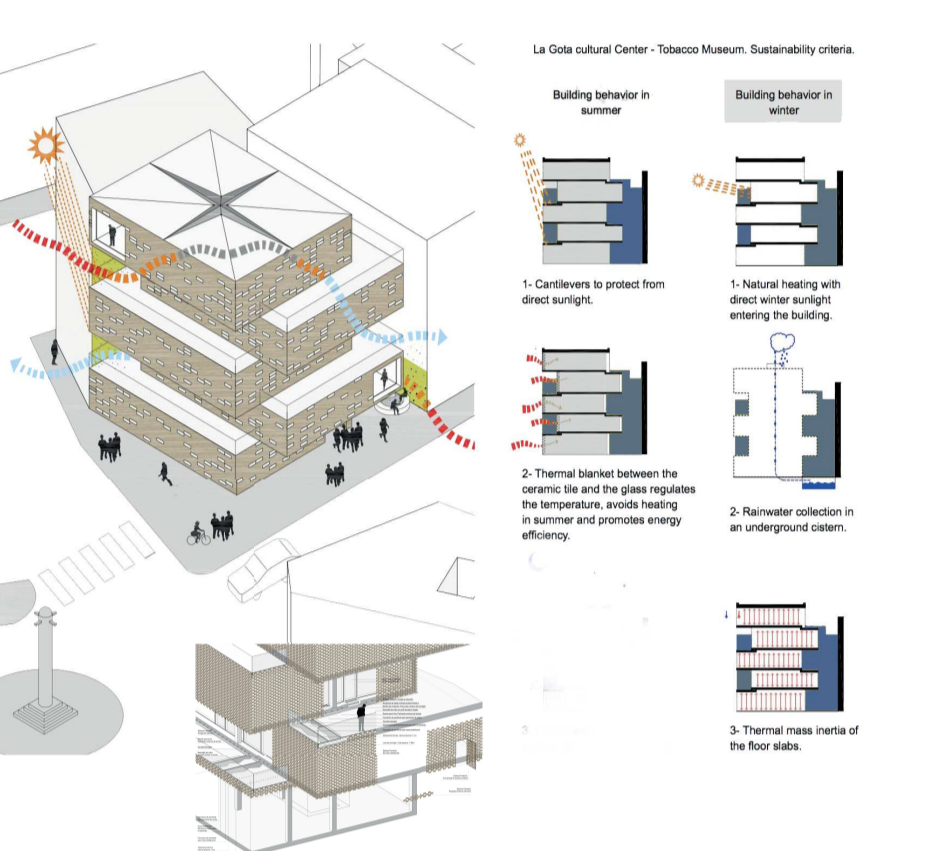
The rehabilitation of the school provides a significant space for residents in which community interaction will be encouraged, taking advantage of the present structure with a new adaptability with modular and innovative spaces for thermal, acoustic and lighting comfort.



REFERENCES

LA GOTA CULTURAL CENTER
structure of the building permits, through active reinforcements, large spans and reduced edges of the slabs. The system increases the bearing capacity of concrete, reducing its deformation and cracking decreases, thus increasing its life.

The City Council of Gothenburg and the Cabildo of Gran Canaria
Modern movement, an abstract classicism. The rationalist Cabildo and the neoclassical building of the Gothenburg City Hall have in common the need to acquire a complete condition, the syndrome of the phantom limb, referring to the enlargement of the amputated body that some buildings that once were attached to the existing but now demand its extension as if they were missing a piece.

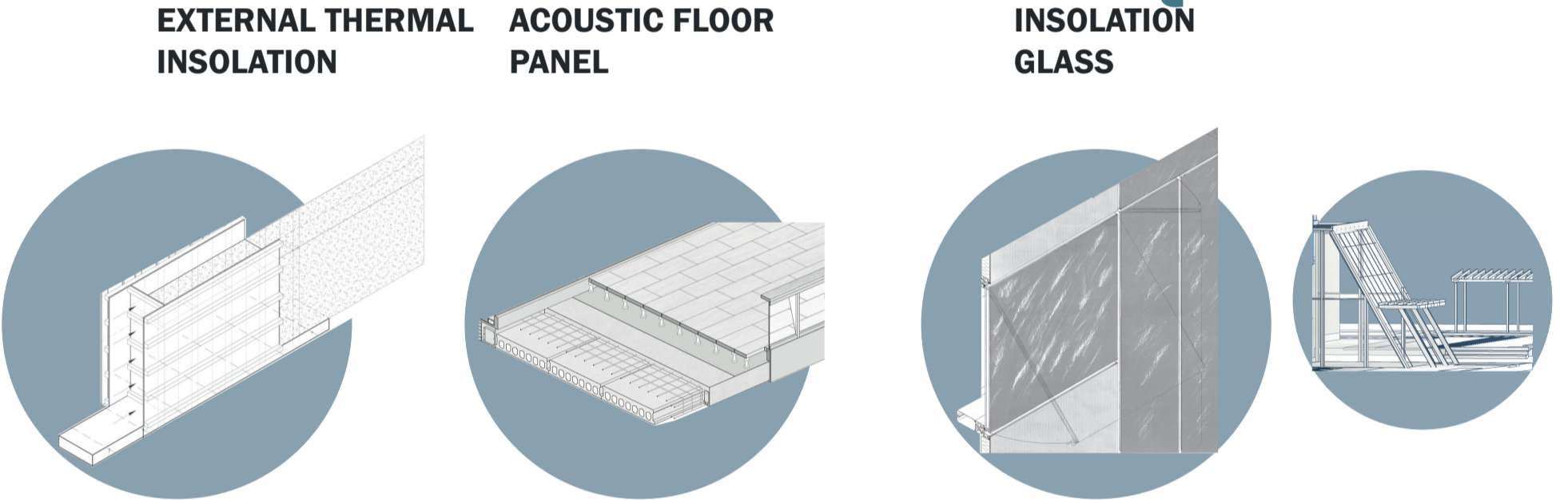


CHIMILIN AREAS CHART

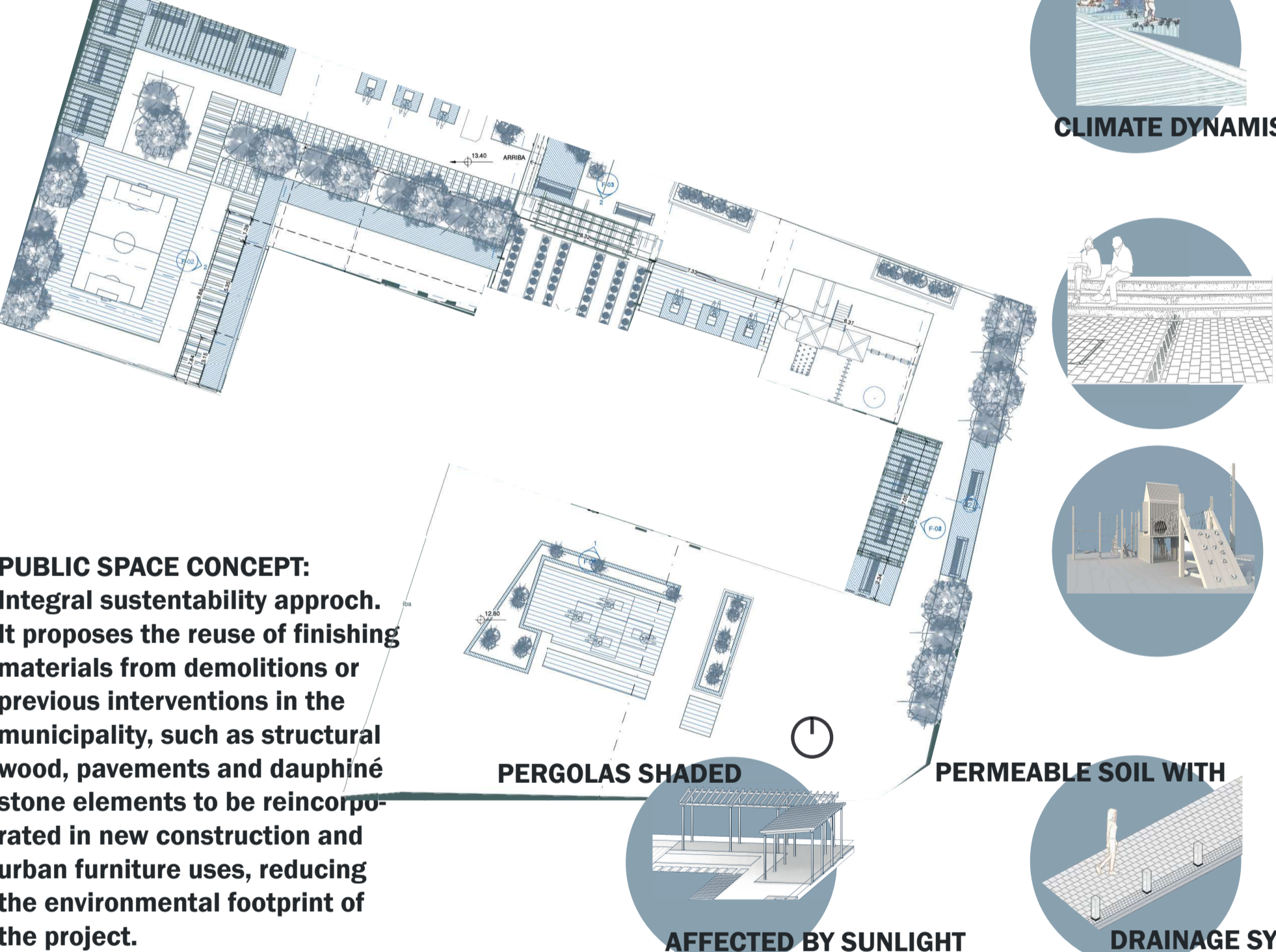
SPACE	M2	FUNCTION
AUDITORIUM	50	LOCAL ASSOCIATIONS AND COMMUNITY EVENTS
WORKSHOP AND TRAINING ROOM	60	TWO 30M2 ROOMS, SPECIFIC ACTIVITIES
MANAGEMENT	20	MANAGEMENT AND COORDINATION AREAS
CAFETERIA	30	REST AND RELAXATION AREA
SERVICES	20	STORAGE SPACE FOR MATERIAL AND EQUIPMENT
WC	30	SANITARY FACILITIES, INCLUDING SPACES FOR PEOPLE WITH REDUCED



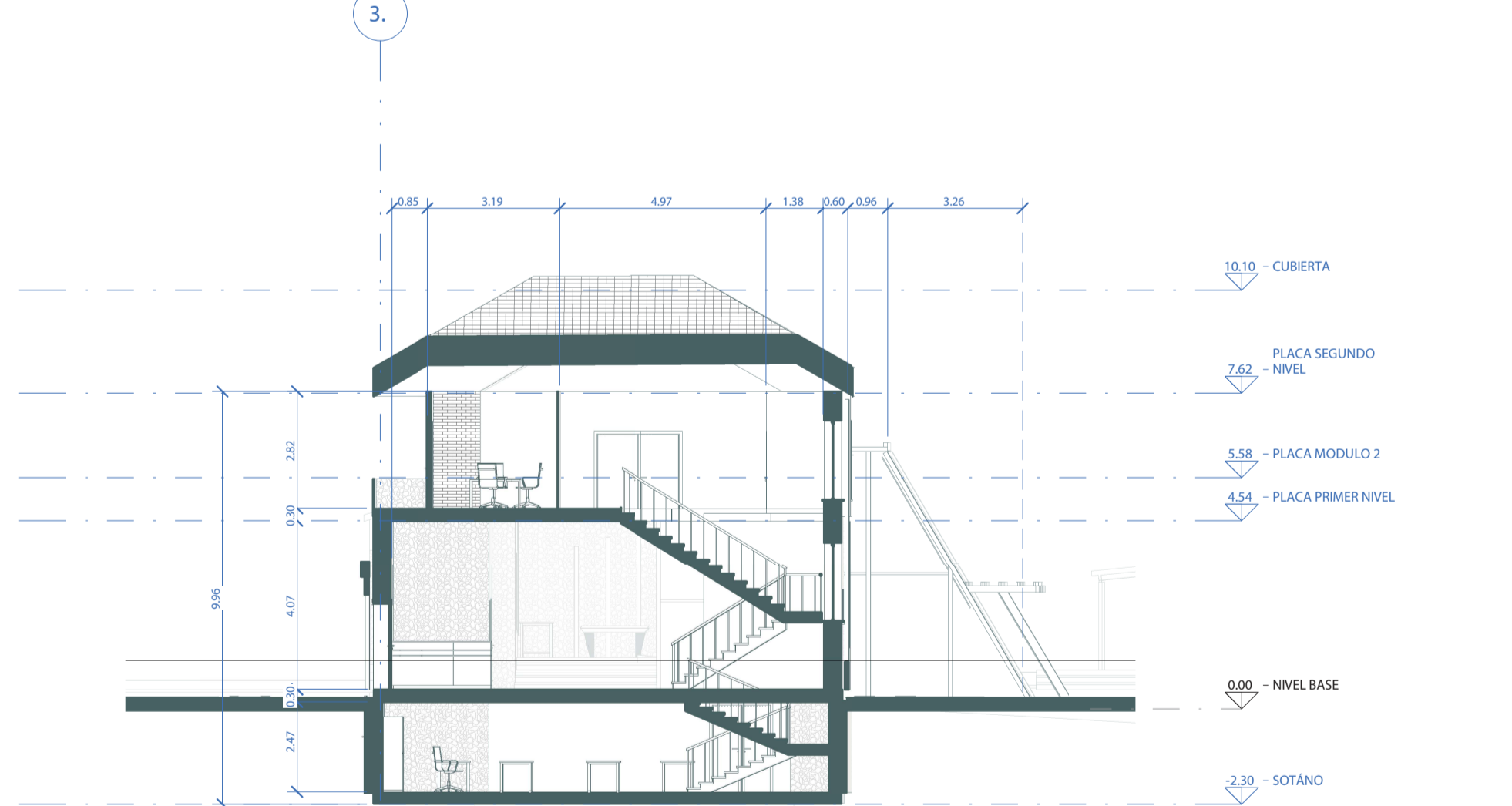
MATERIALS AND TECHNIQUE



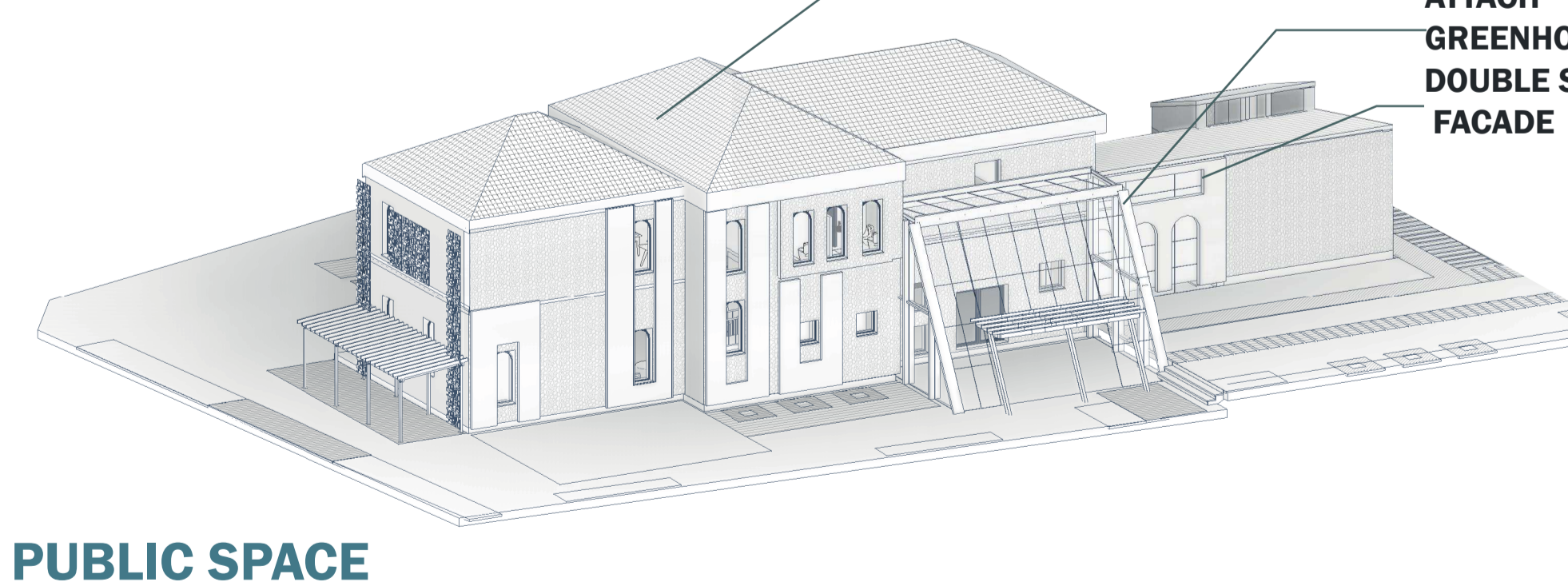
STREET FURNITURE



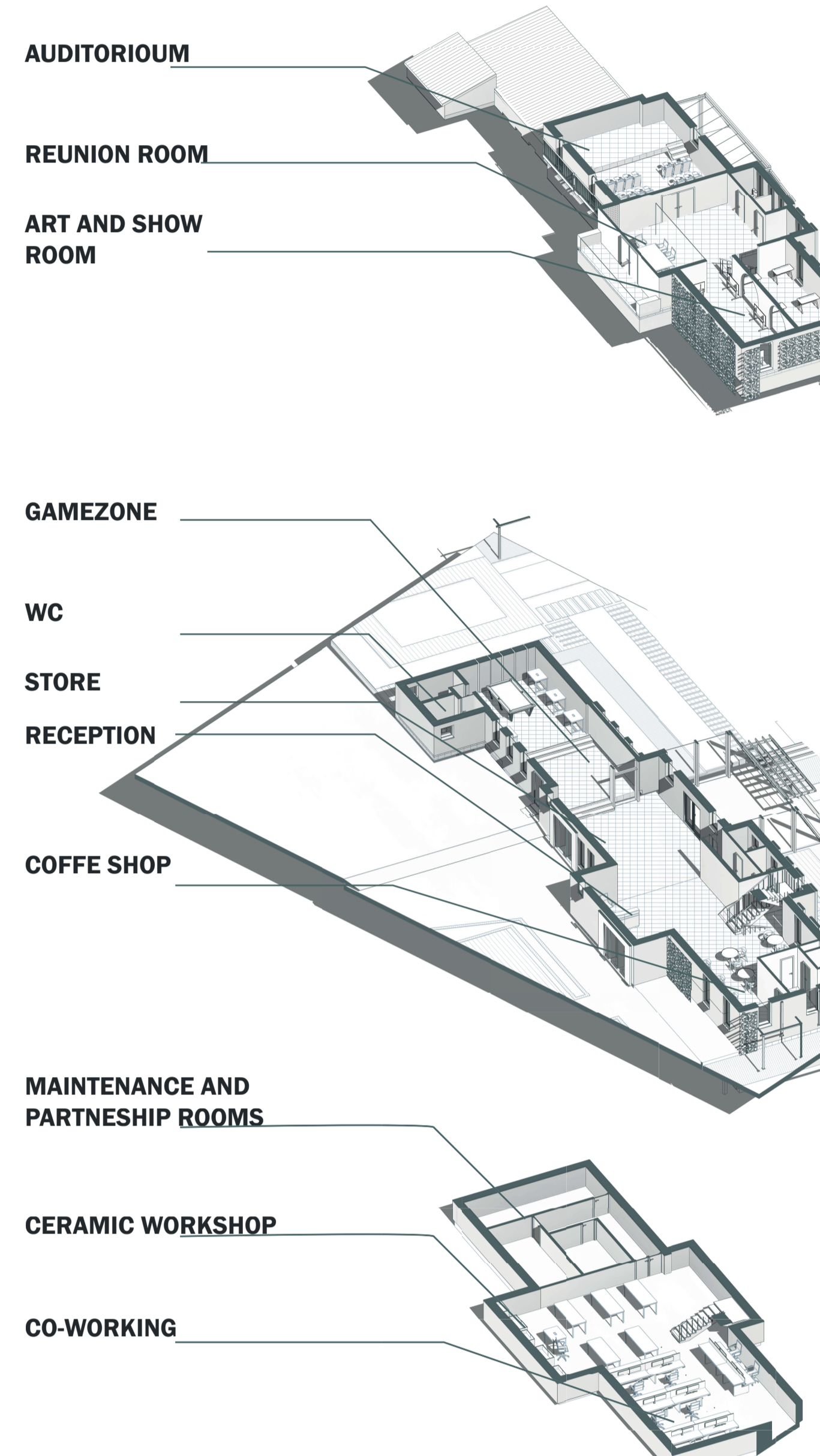
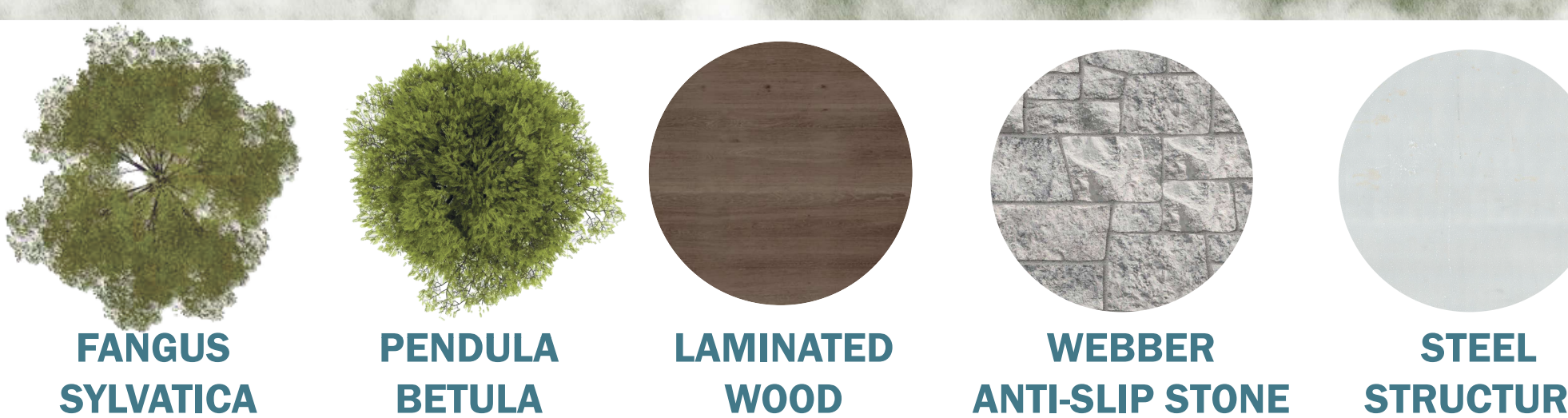
TRANSVERSAL SECTION



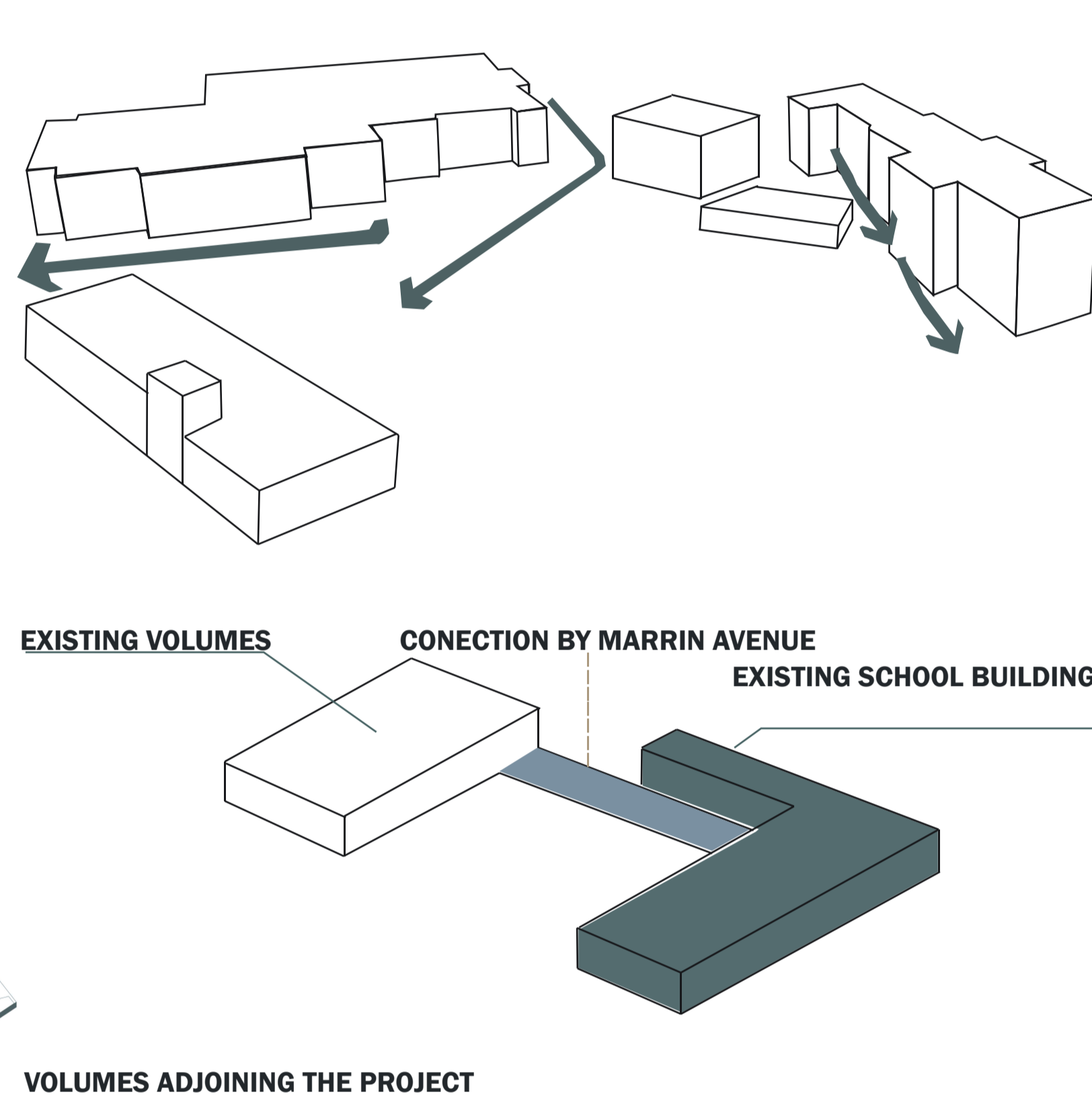
FACADE DETAILS



PUBLIC SPACE



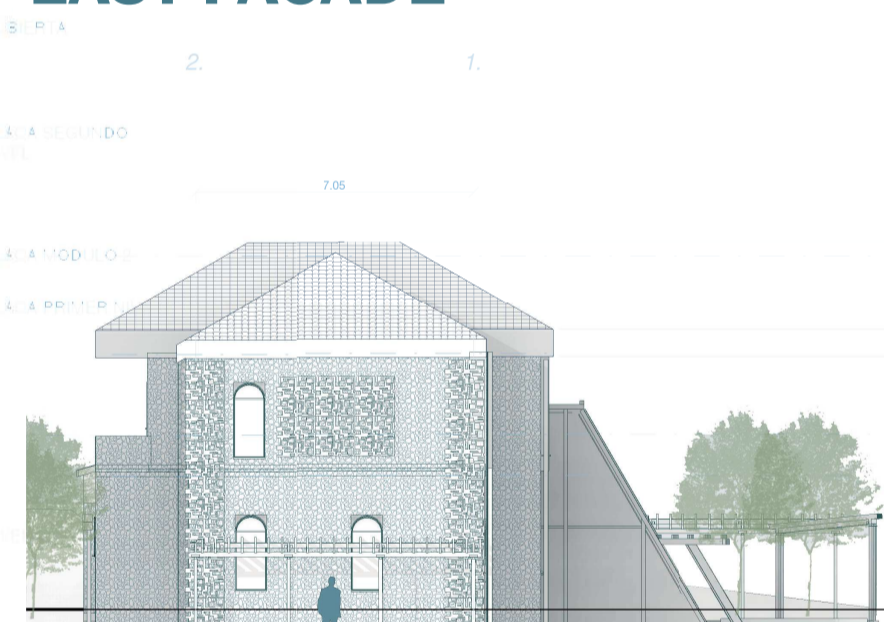
CONTEXT



NORTH FACADE



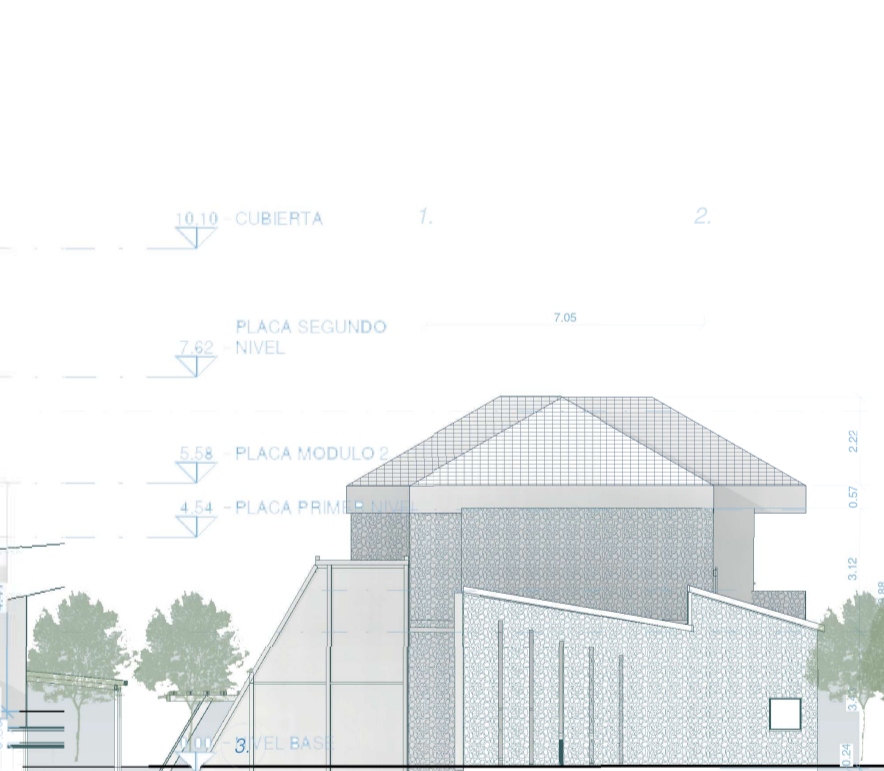
EAST FACADE



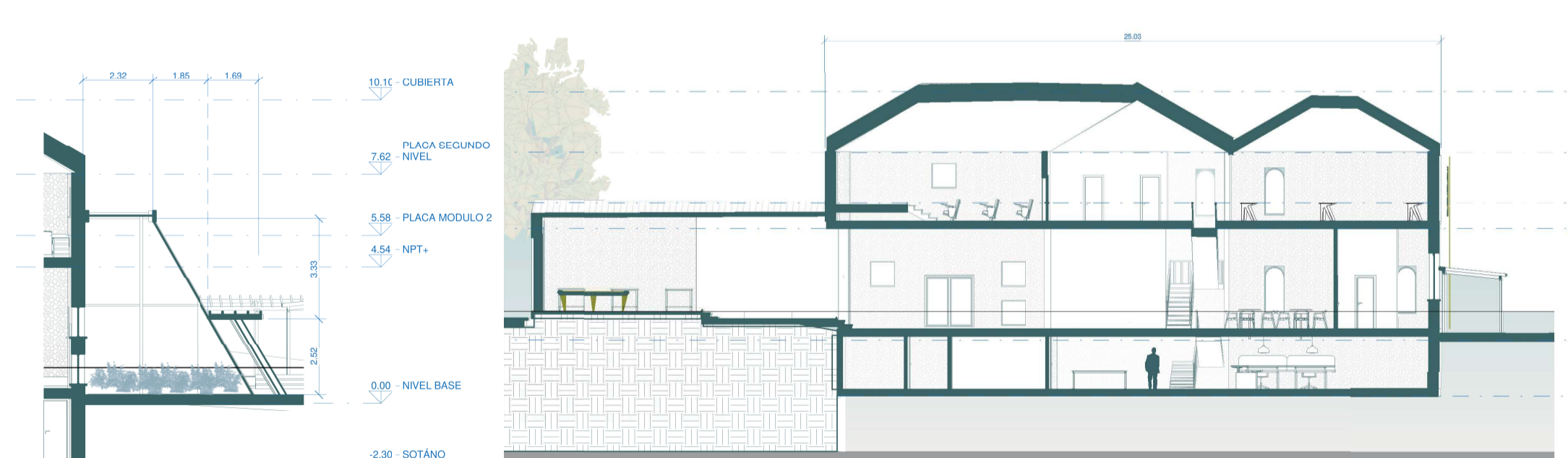
SOUTH FACADE



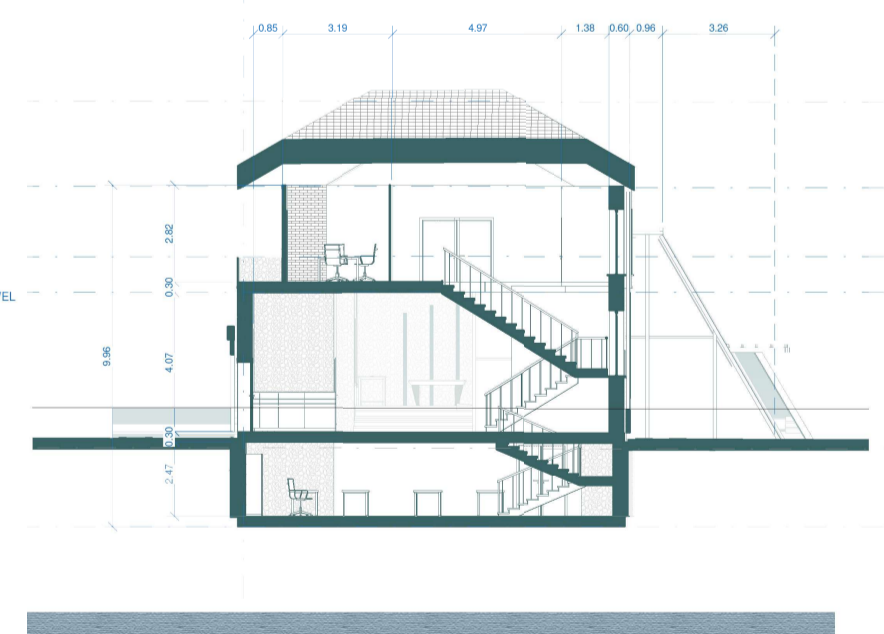
WEST FACADE



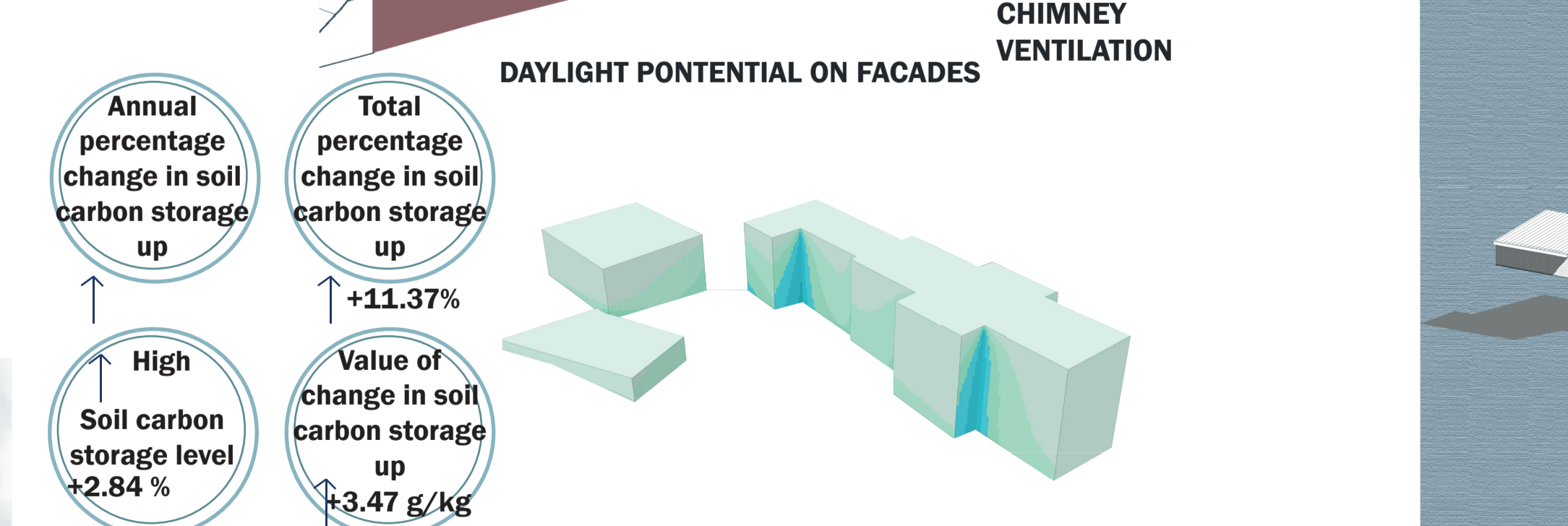
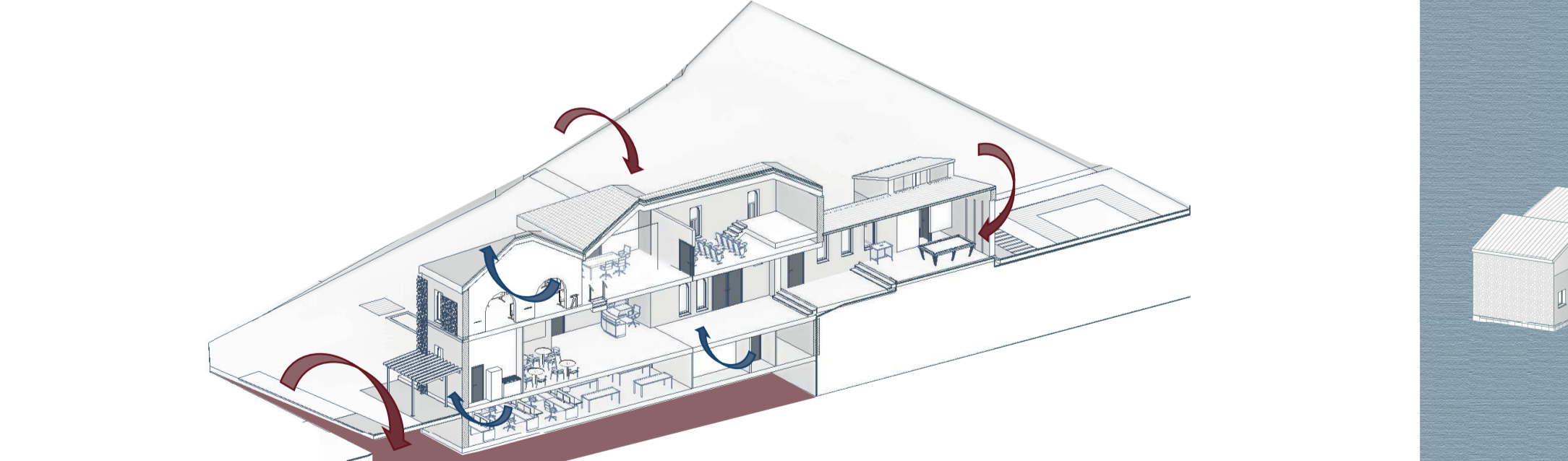
ATTACHED GREENHOUSE LONGITUDINAL SECTION



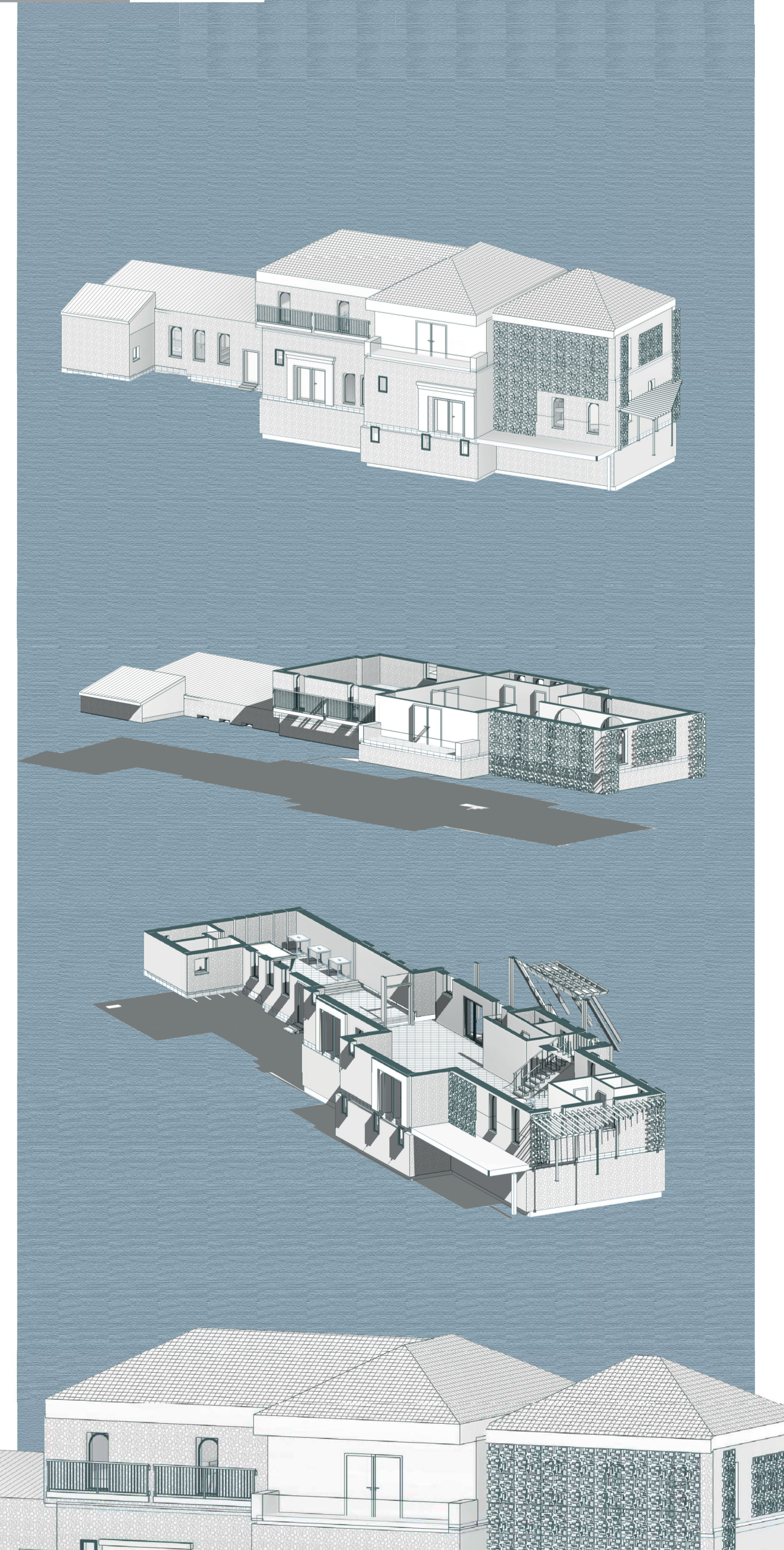
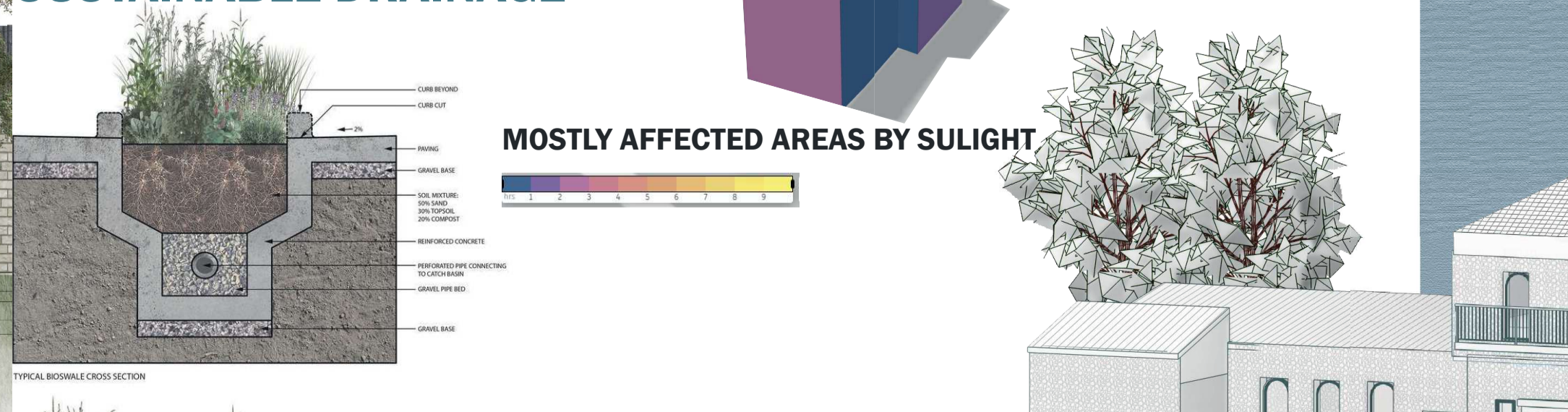
TRANSVERSAL SECTION



BIOCLIMATIC TECHNIQUE

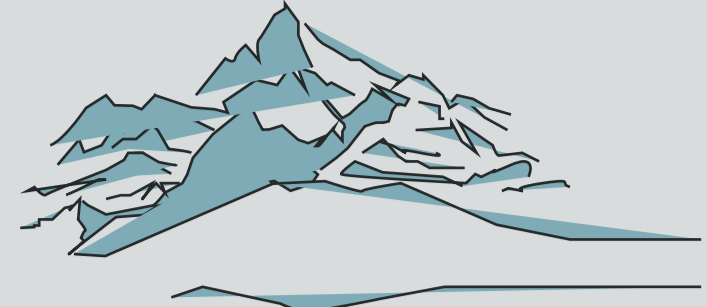


CARBON EMISSION
Carbon emission from agricultural plots in grams of carbon per kilogram of soil (g/kg).
SUSTAINABLE DRAINAGE

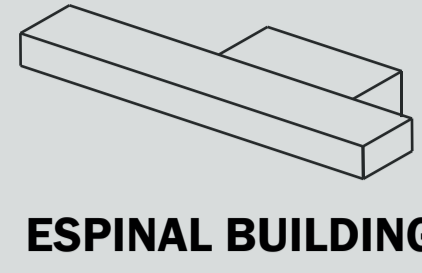


STUDENT RESIDENCE

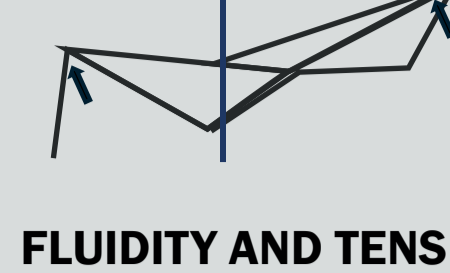
The student residence in vilfontaine is a key project to address the growing demand for accommodation for students and teachers attending Les Grands Ateliers and other nearby institutions. This equipment is essential to reduce commuting to Lyon, allowing students to stay in the city and strengthen their bond with the local community. In addition, the residence will not only provide a space for rest, but also areas of study, coexistence and collaboration that will promote academic and social interaction. Its implementation will help retain talent in vilfontaine, boost the local economy and contribute to a more balanced urban development, integrating education with the opportunities of the region.



OROGENESIS

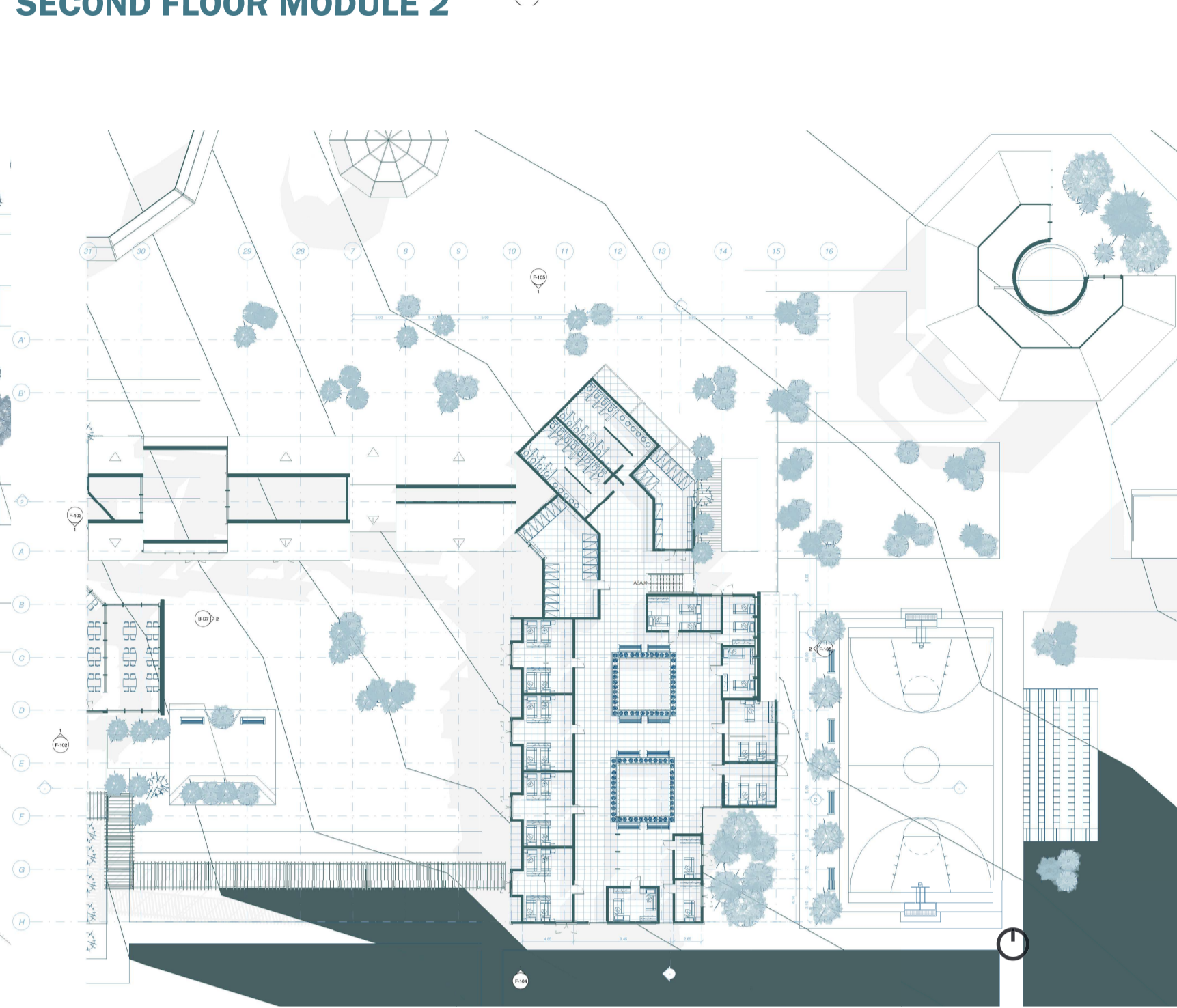
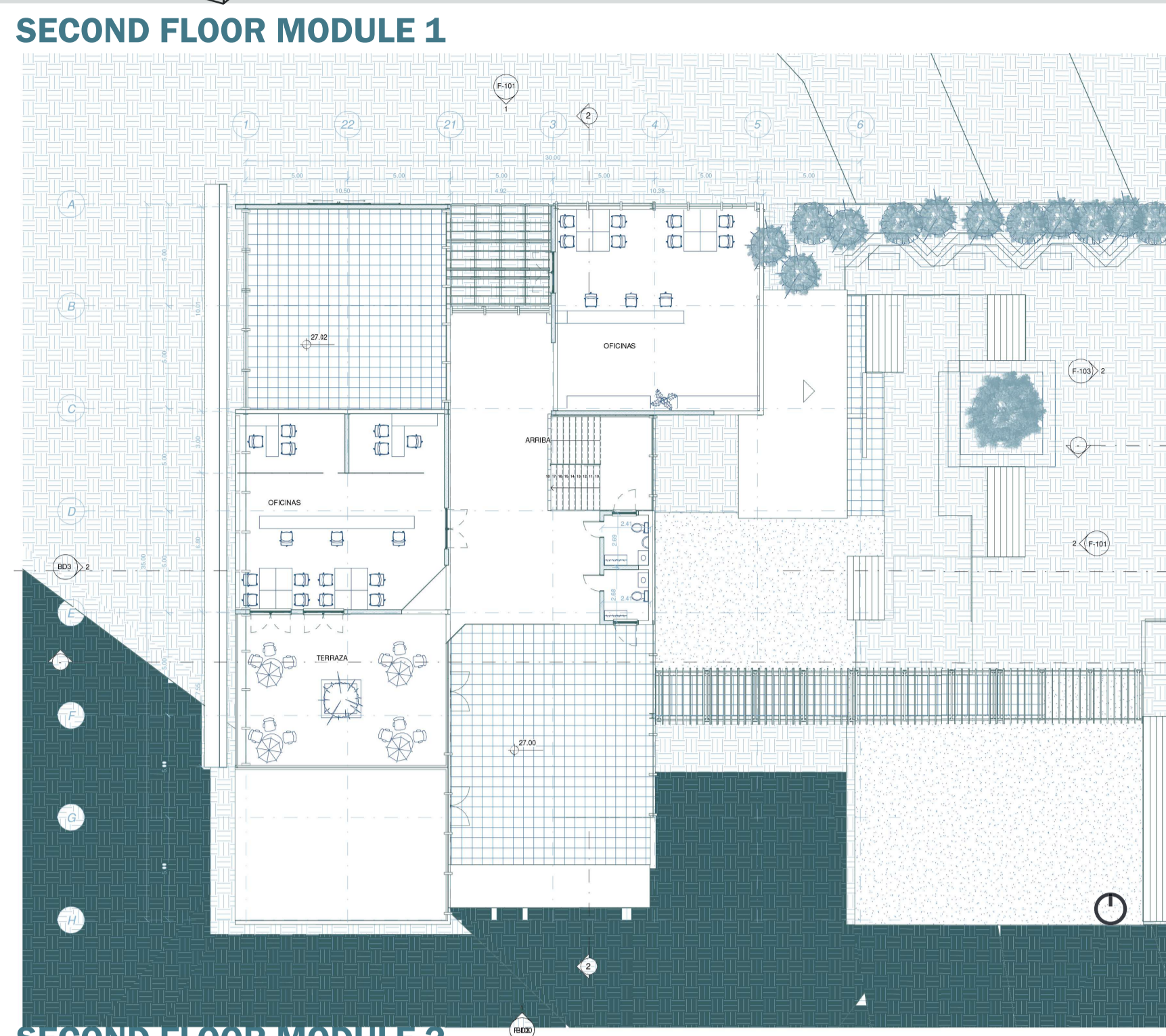
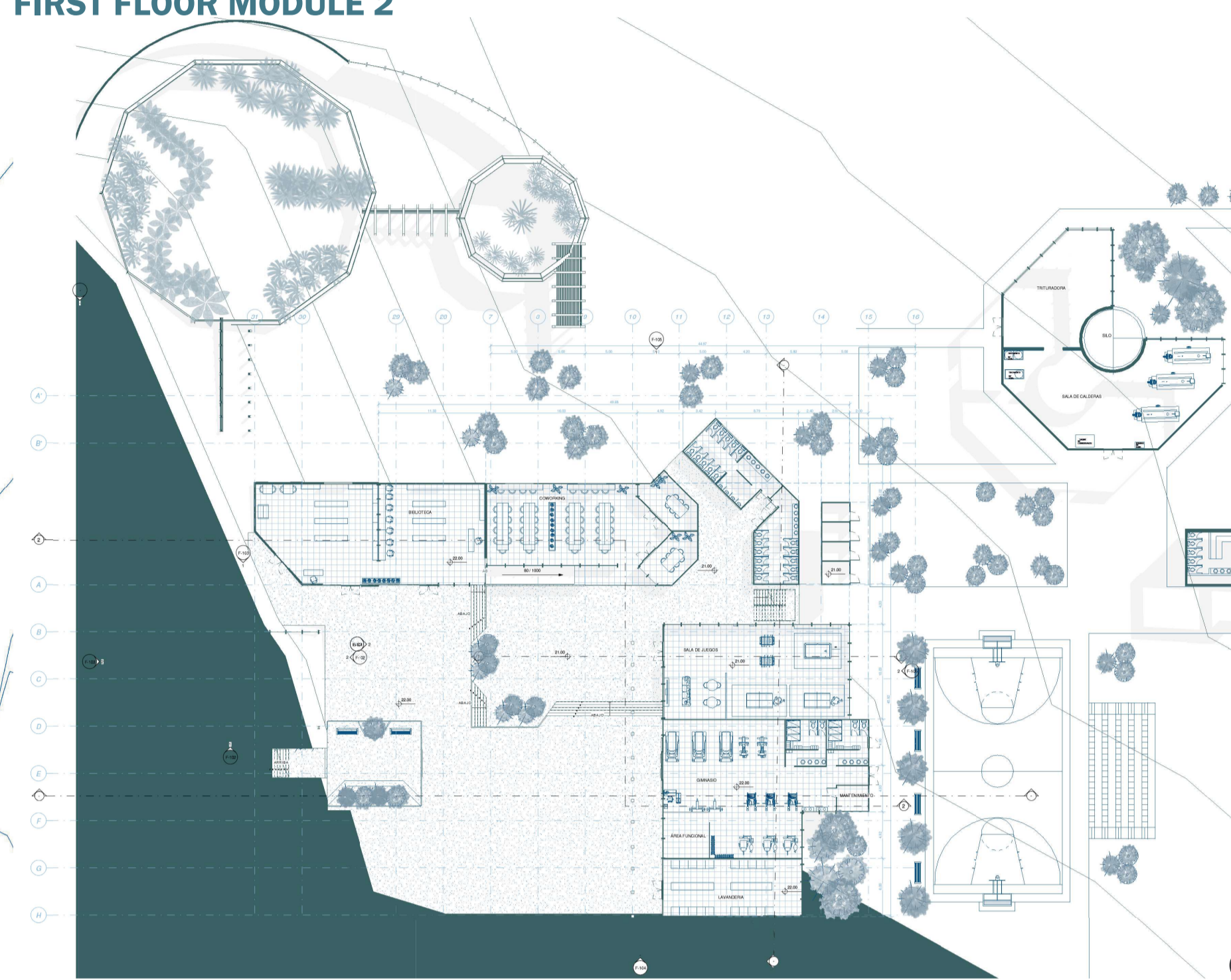
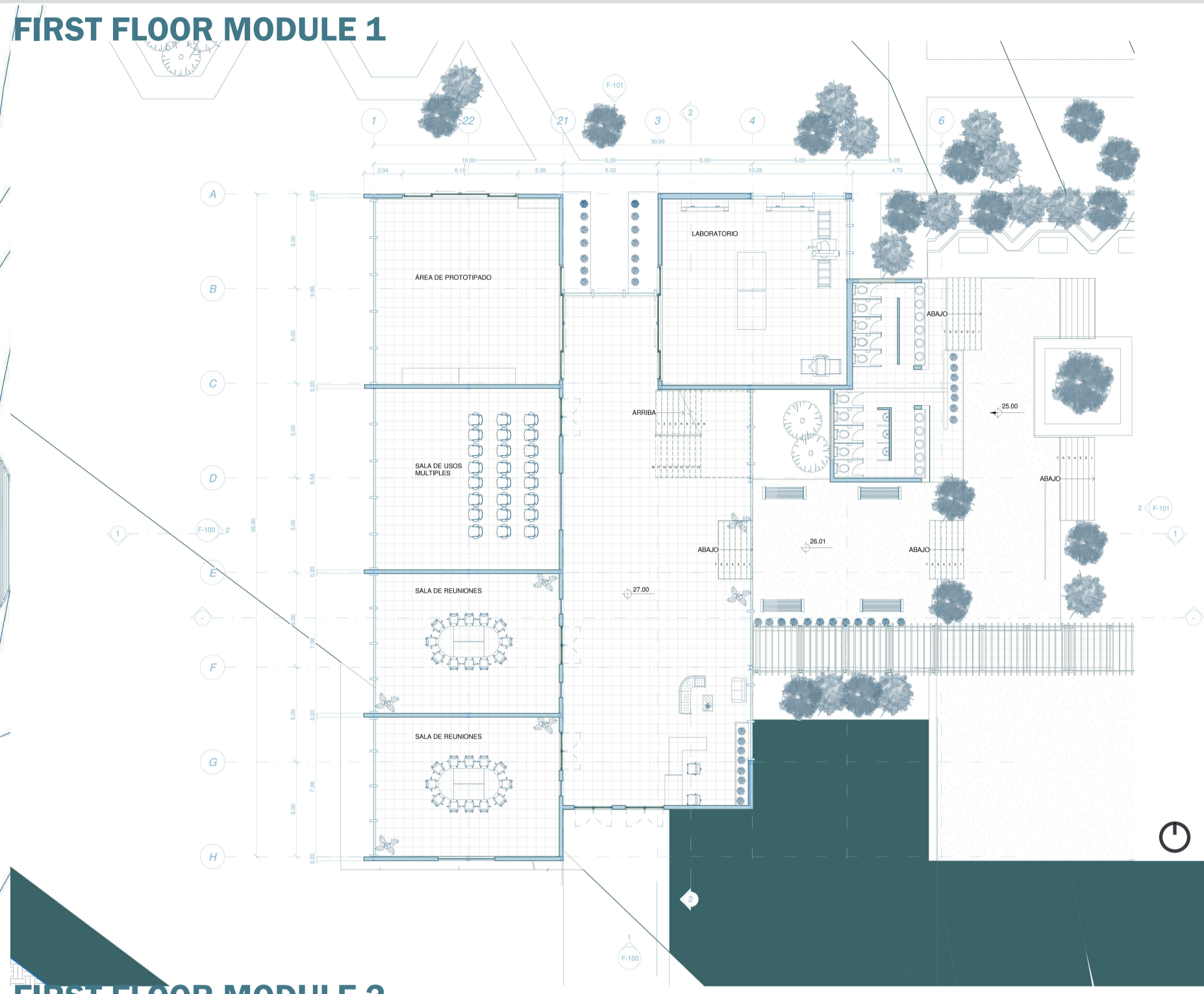
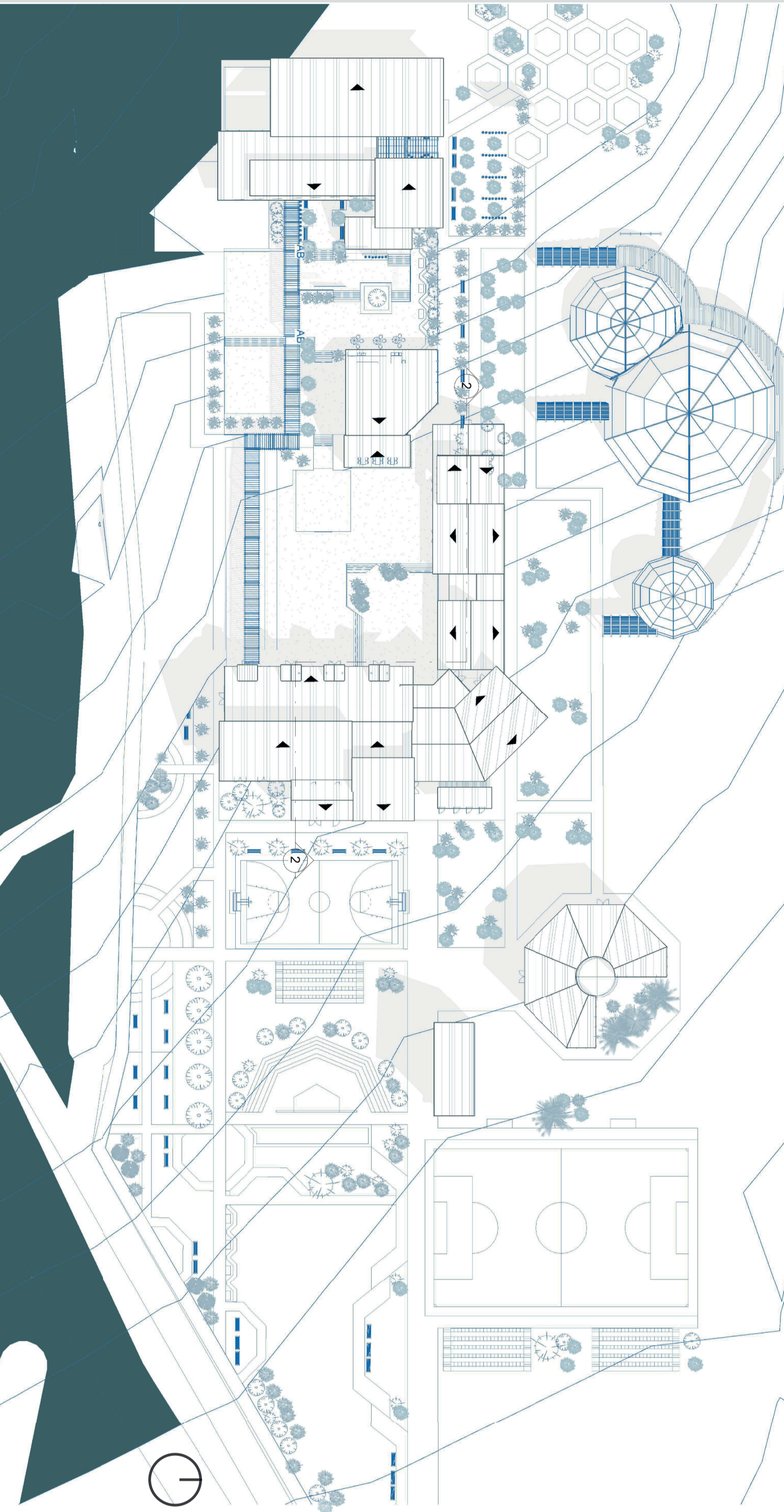
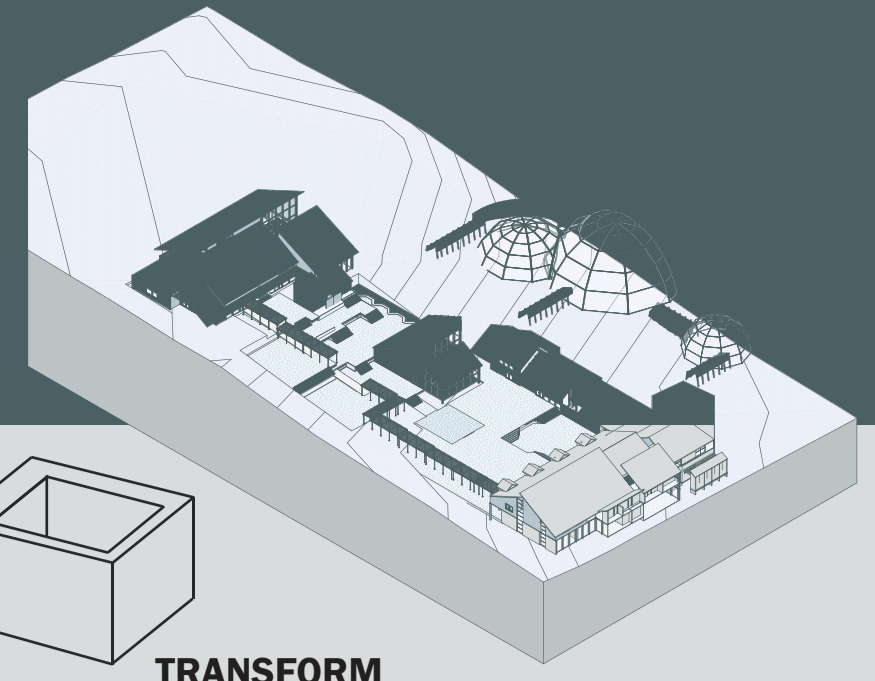
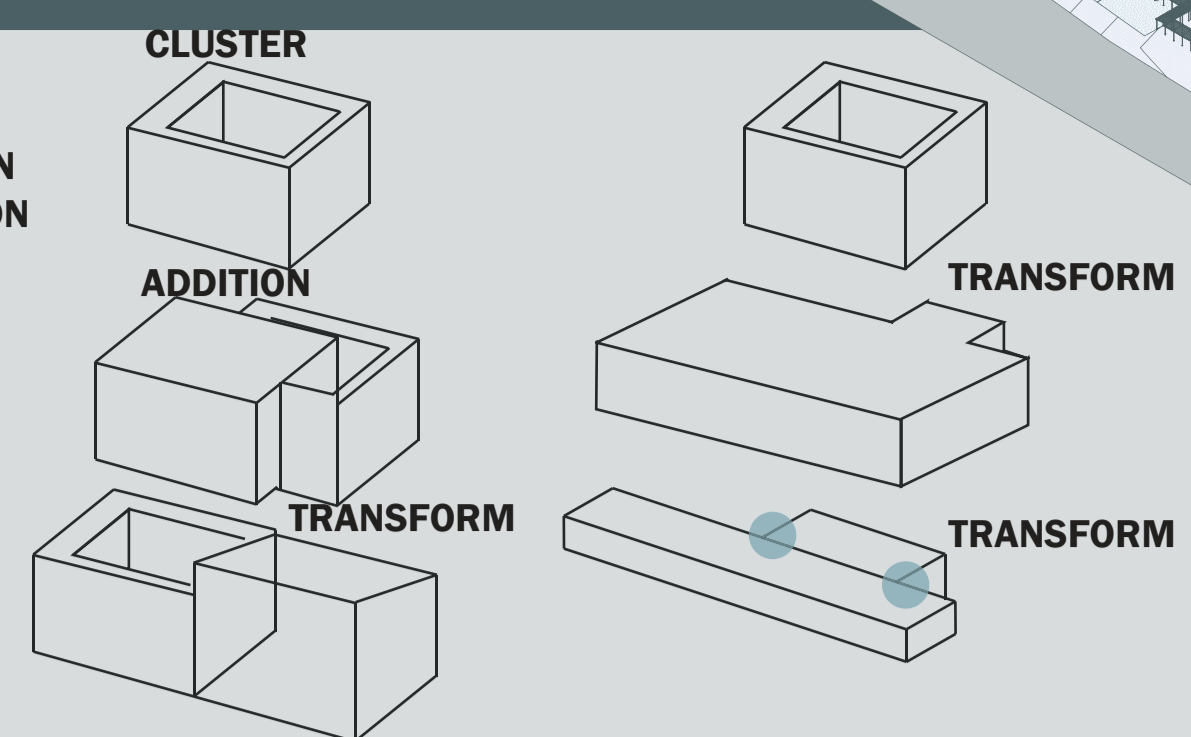


ESPINAL BUILDING

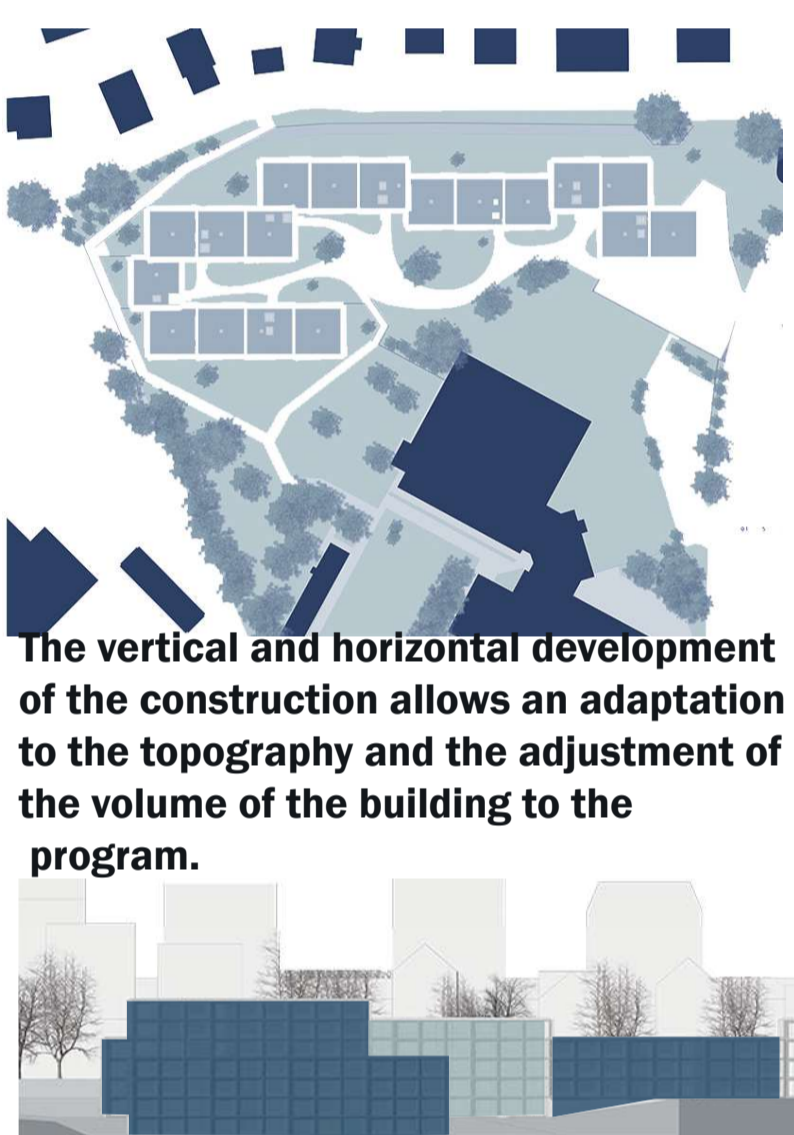


FLUIDITY AND TENSION

CLUSTER
SUBTRACTION
YUXTAPOSITION
RHYTHM



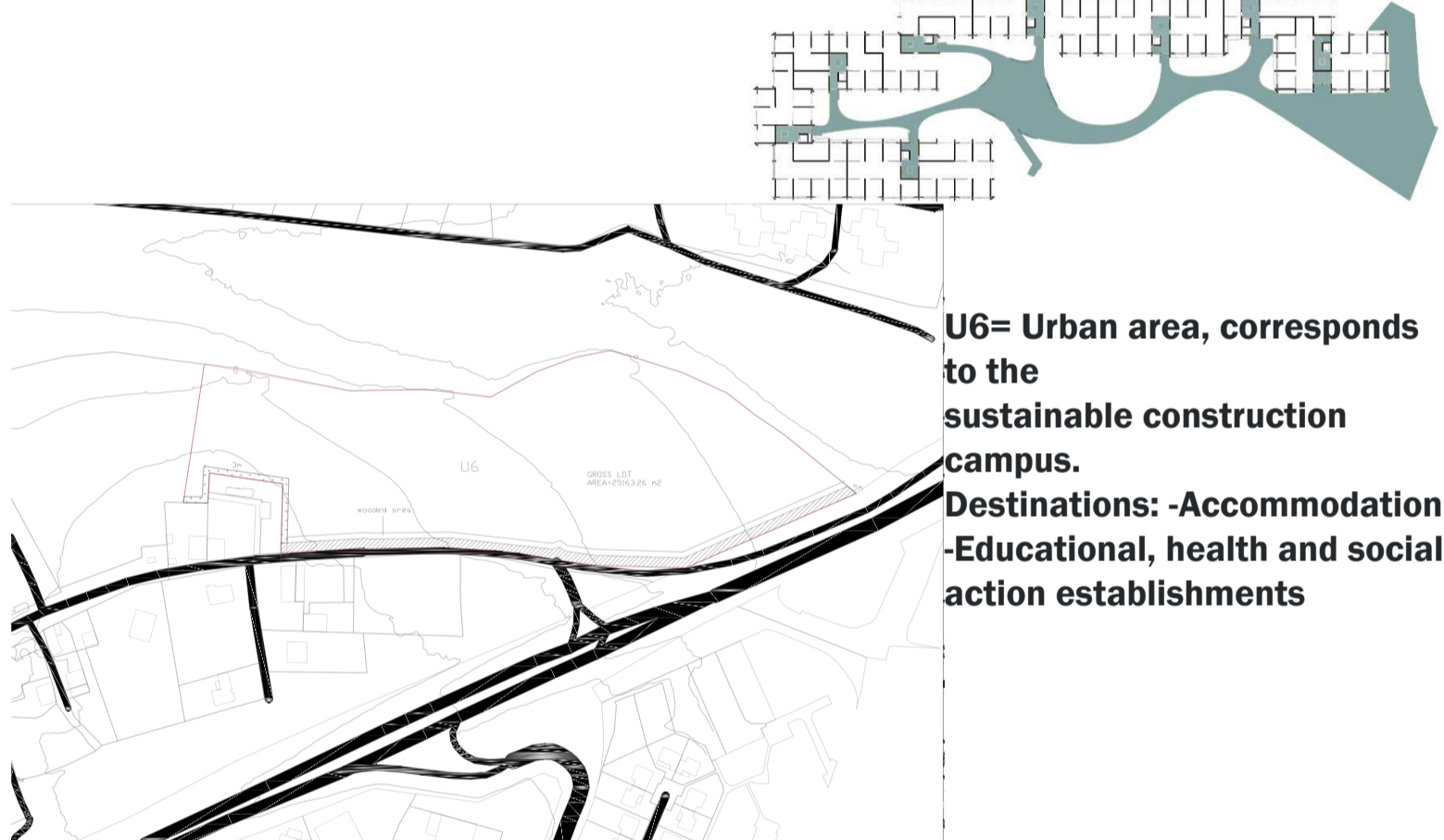
REFERENCES



Relationship of the project with the natural environment, thanks to its heights and walkable green roofs

The vertical and horizontal development of the construction allows an adaptation to the topography and the adjustment of the volume of the building to the program.

University of Chicago Residential Campus / Studio Gang
Located on the university's Hyde Park campus, this project emphasizes community-building and sustainability. Using the architectural design features interconnected residential buildings that encourage social interaction among students



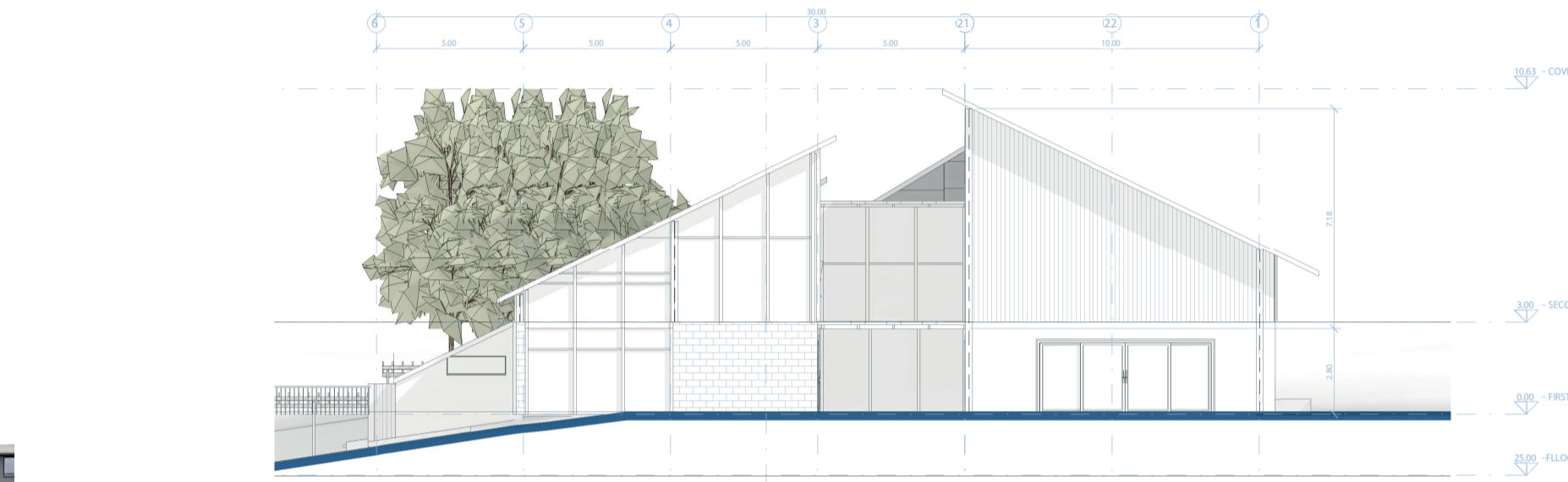
U6= Urban area, corresponds to the sustainable construction campus.
Destinations: -Accommodation
-Educational, health and social action establishments

SPACE	M2	FUNCTION
BEDROOMS	250	Shared and private rooms for a total of 64 students.
LABORATOIRES	80	Meetings and collaborative work
OFFICES	50	Research, teaching and administrative offices.
AUDITORIUM	60	Formal meetings, presentations, and project conferences
LIVING AREA	40	Rest, recreation and socializing
KITCHEN/DINING ROOM	40	Dining room and shared kitchen
STORAGE	30	STORAGE SPACE FOR MATERIAL AND EQUIPMENT
VAC	30	SMALL FACILITIES INCLUDING SPACES FOR RECREATION AND REDUCIBILITY

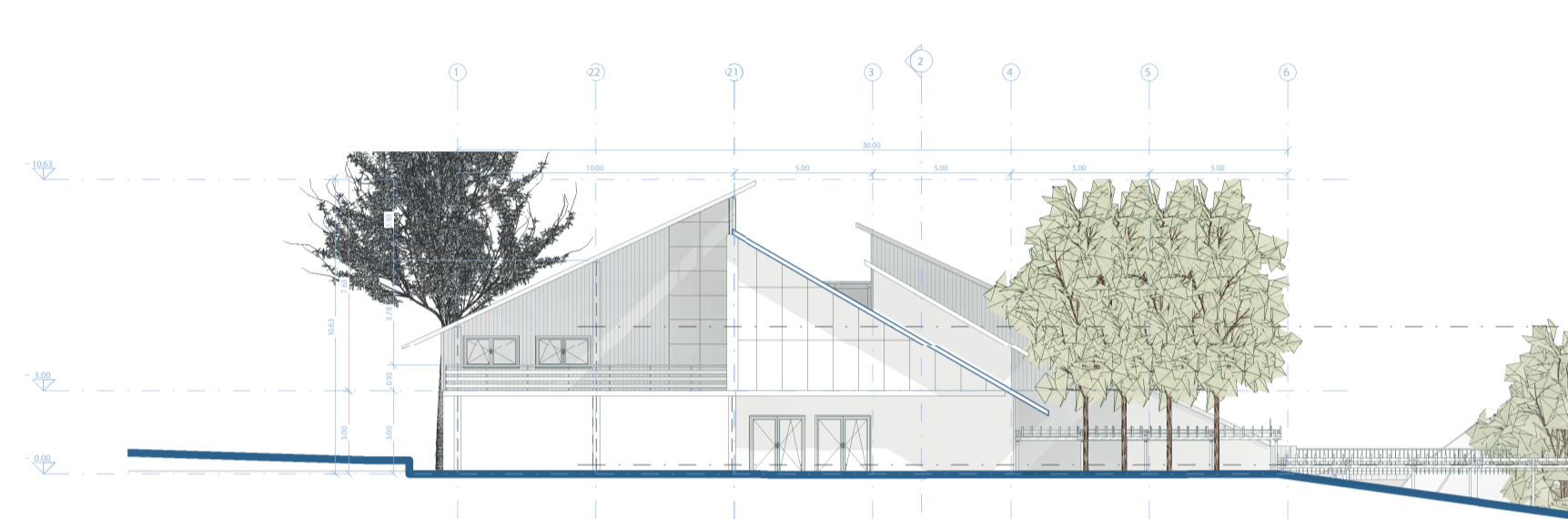
-Public administration premises and offices open to the public
-Industry
-Gross area= 25163.26 m2
-Height not regulated for facilities of collective interest and public services.
-Retracing 5 meters distance between buildings 3 m

NORTH FACADE MODULE 1

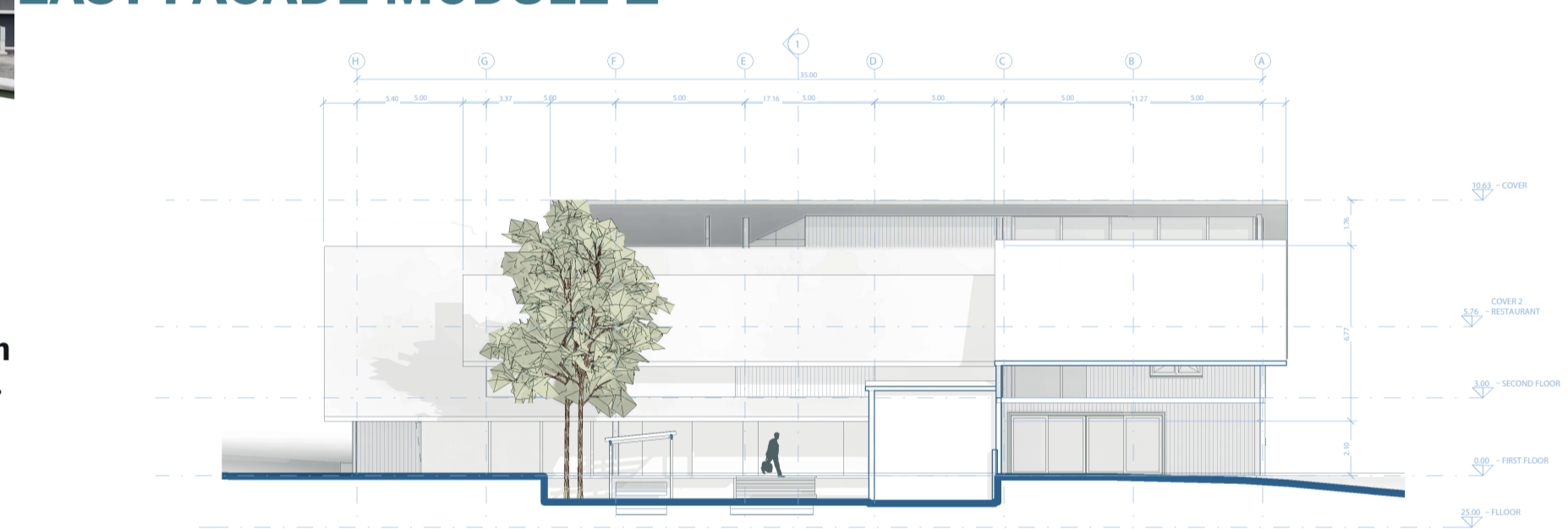
SOUTH FACADE MODULE 1



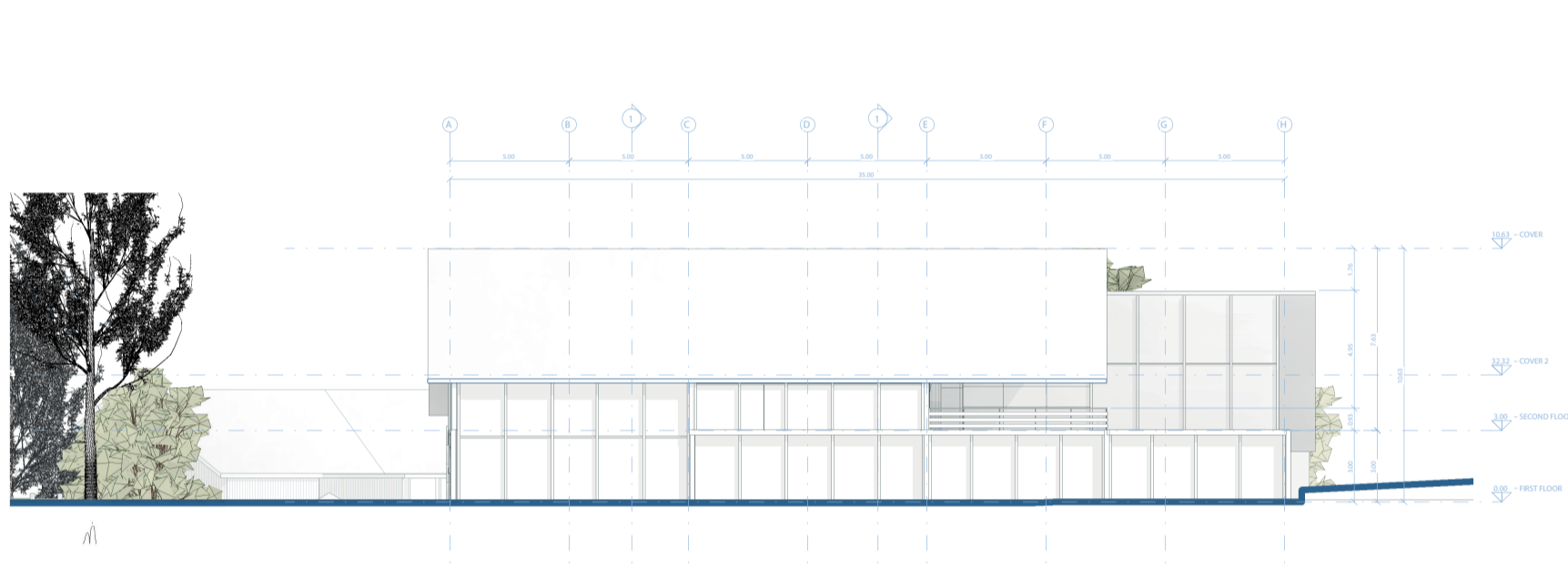
EAST FACADE MODULE 1



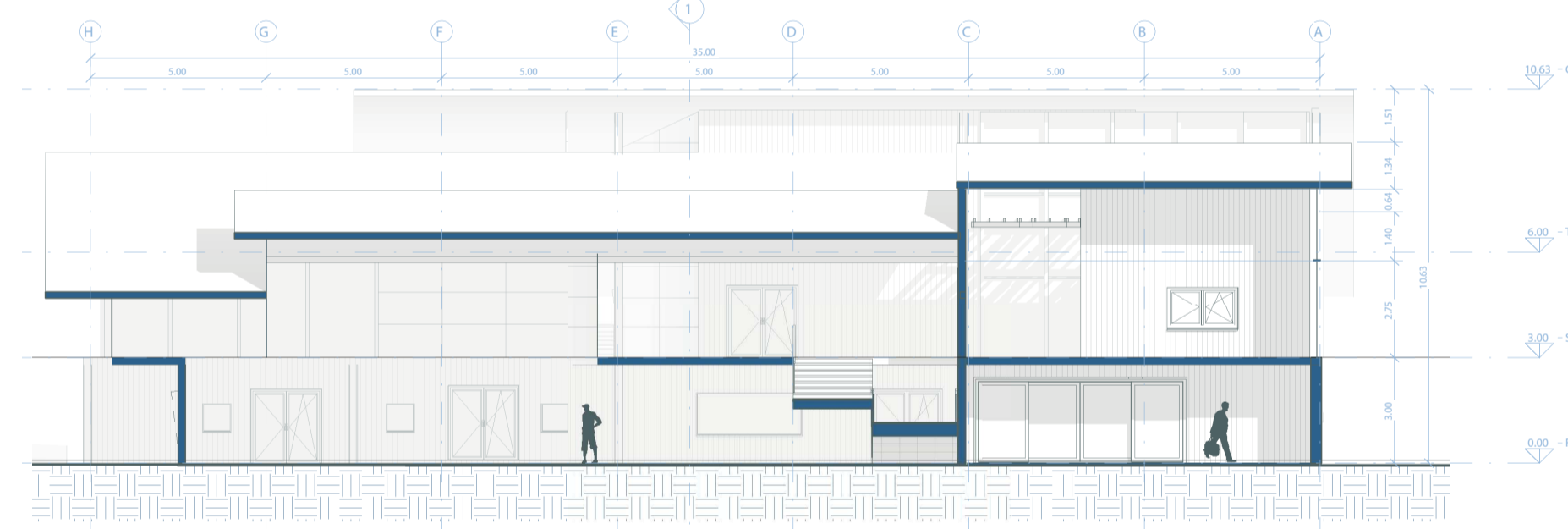
WEST MODULE 1



SPECIFIC SECTIONS

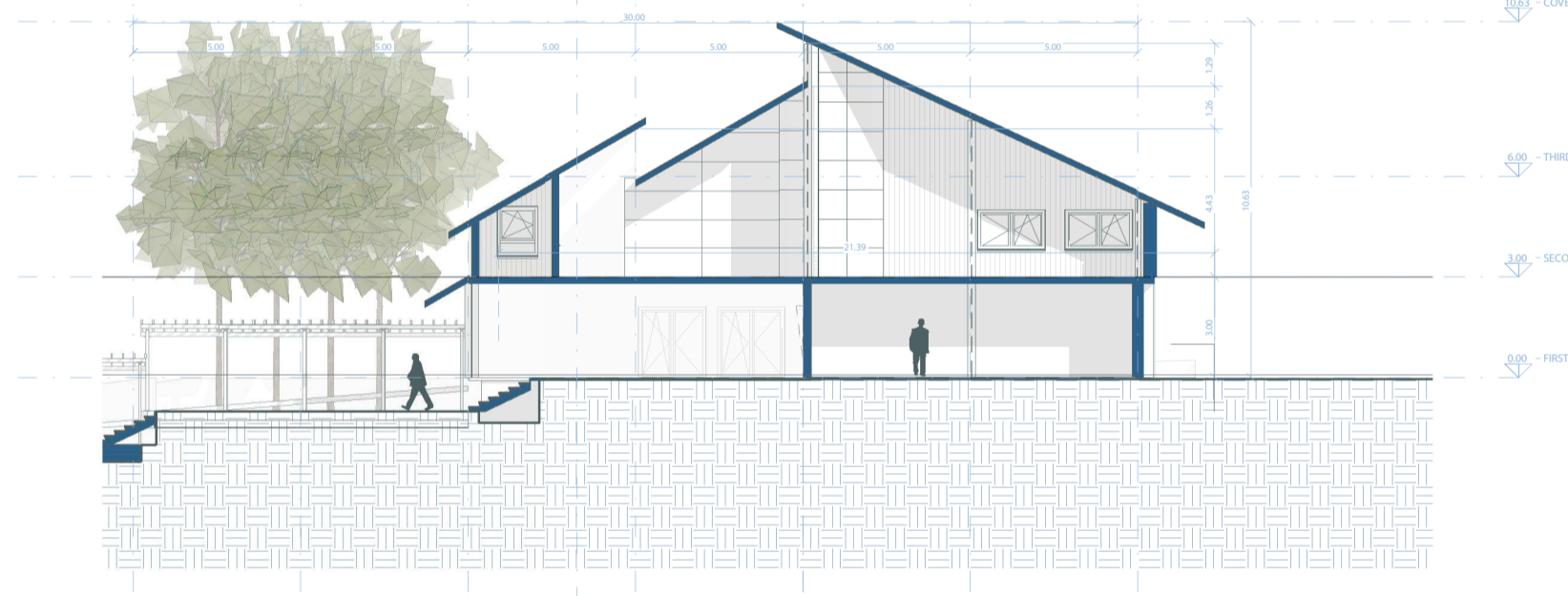


SPECIFIC SECTIONS



NORTH RESTAURANT FACADE

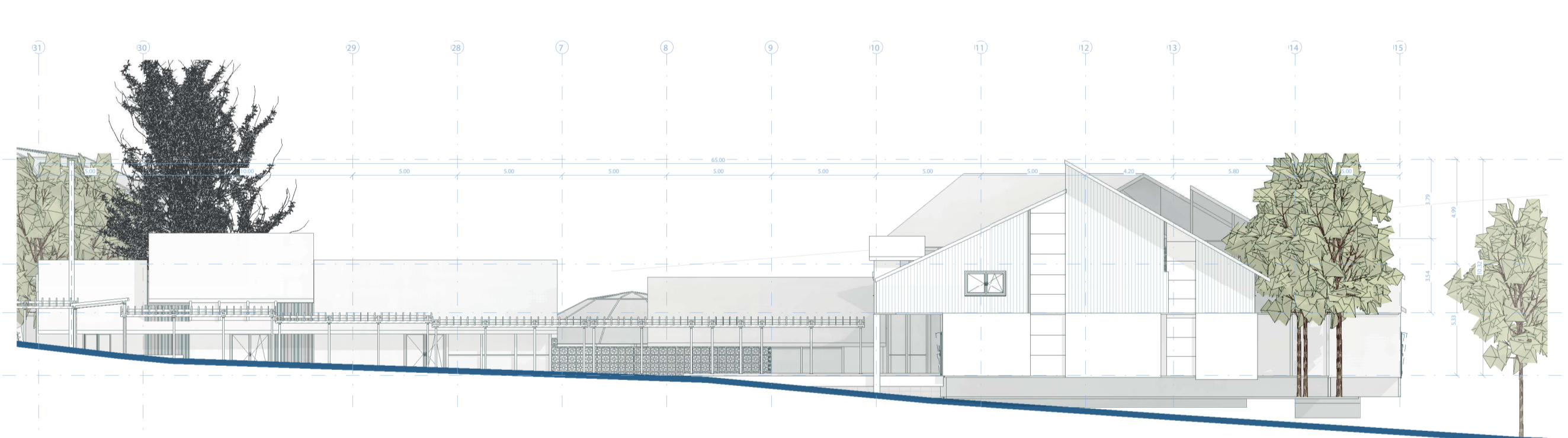
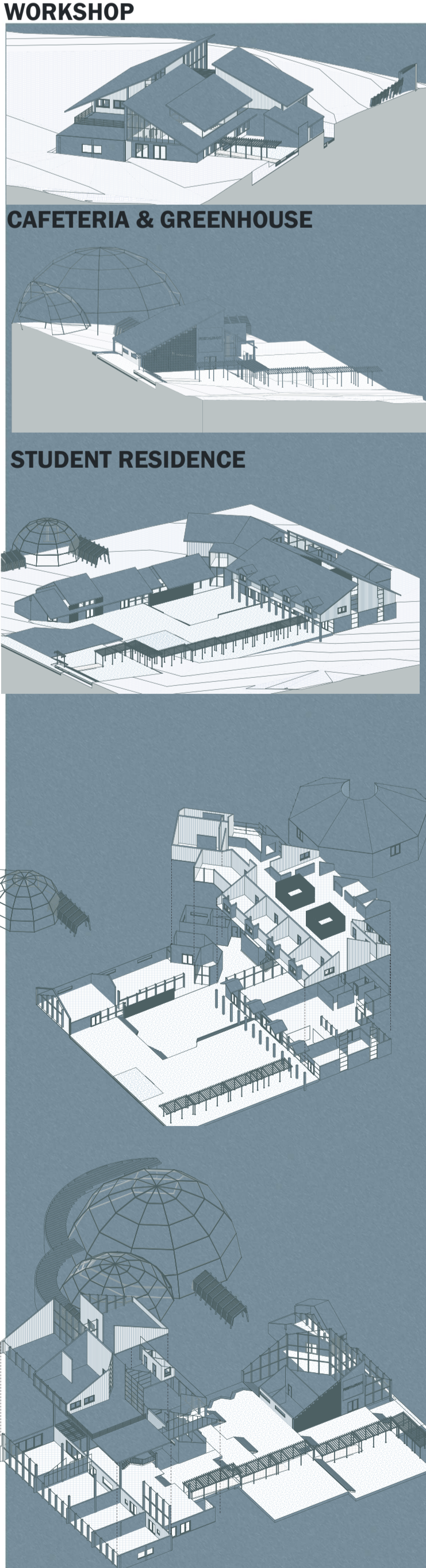
SOUTH RESTAURANT FACADE



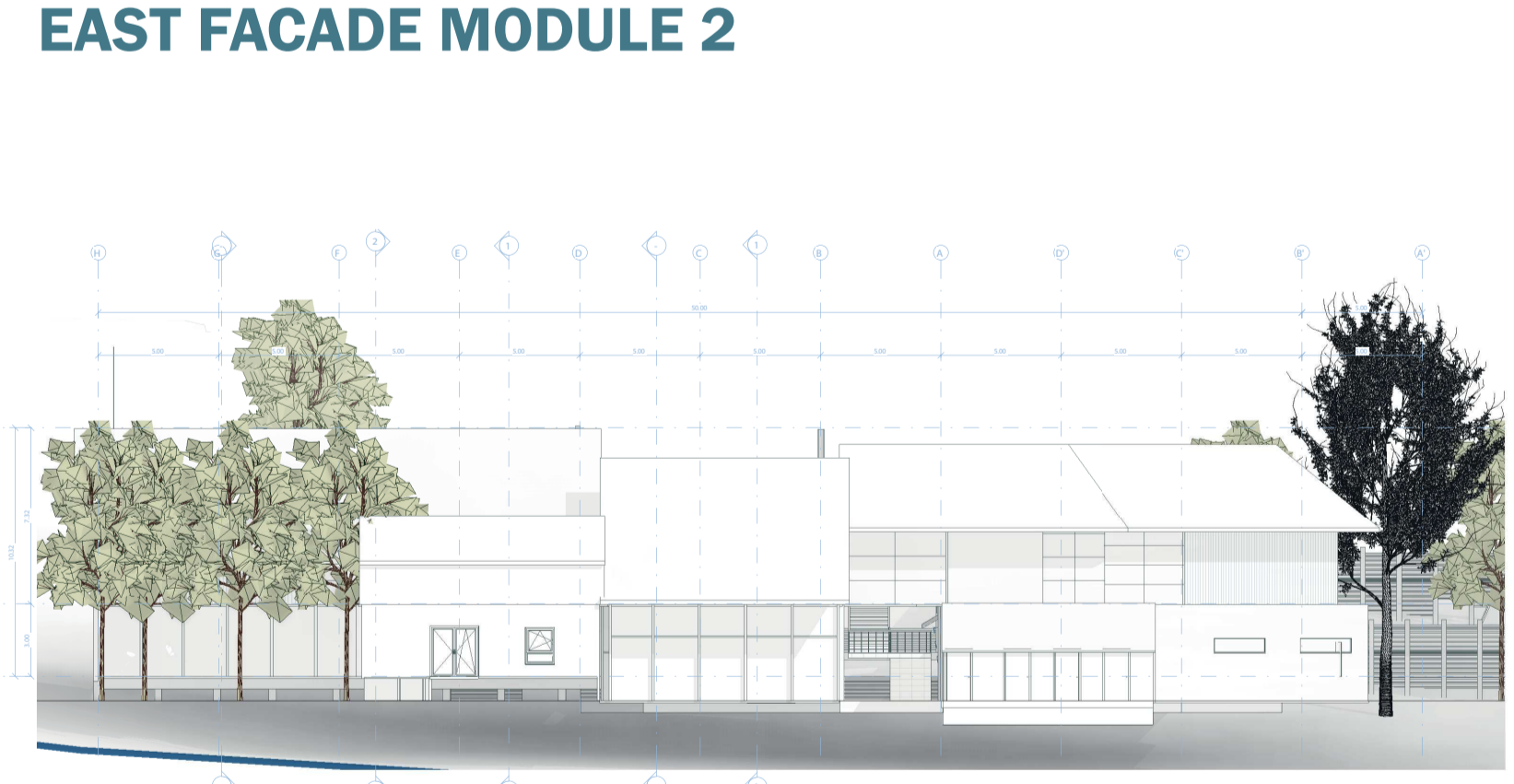
EAST RESTAURANT FACADE

WEST RESTAURANT FACADE

EXPLODED AXONOMETRY NORTH FACADE MODULE 2



SOUTH FACADE MODULE 2

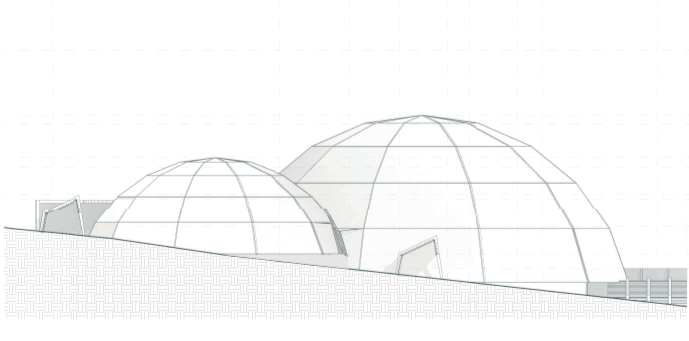
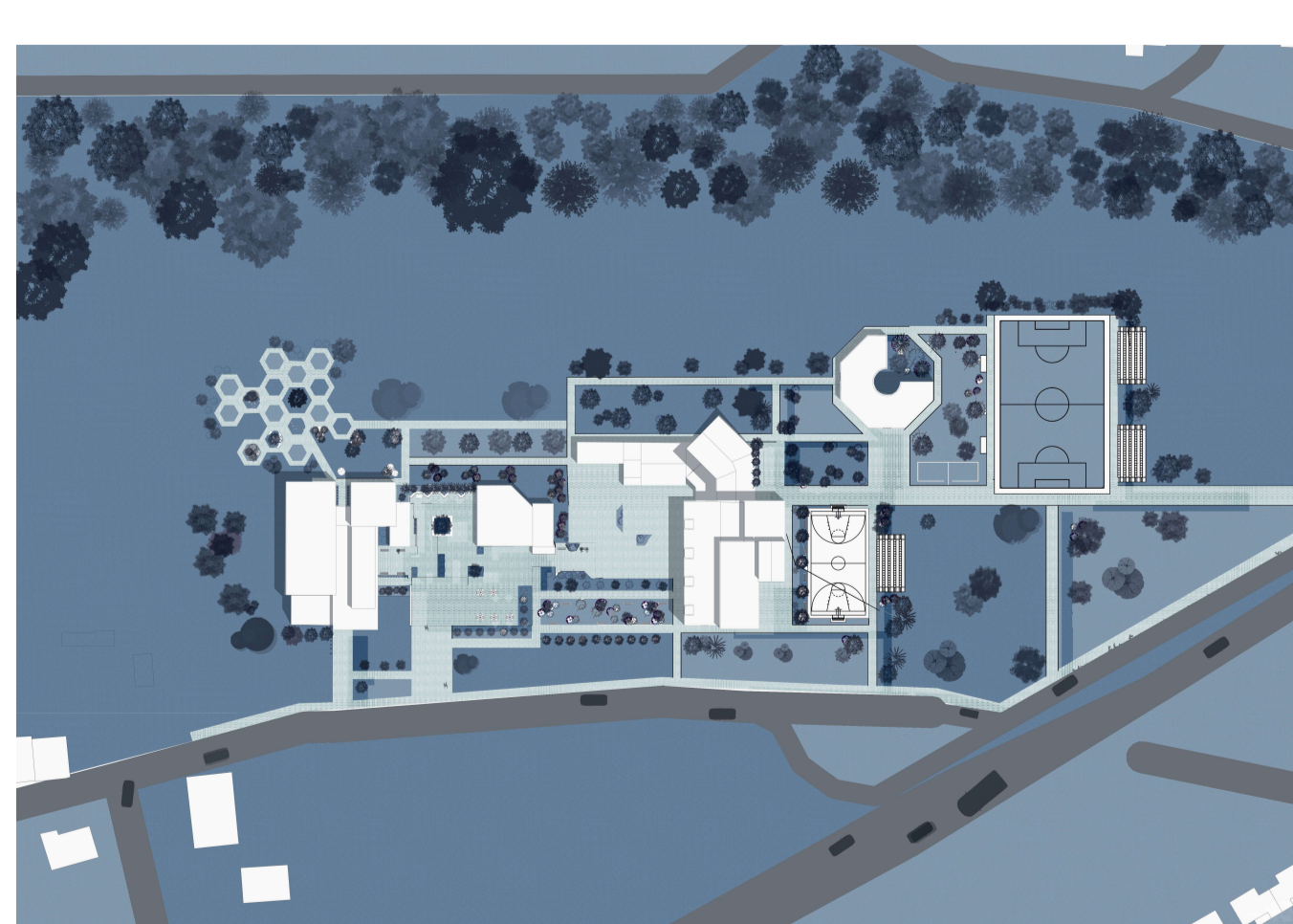


WEST MODULE 2 FACADE

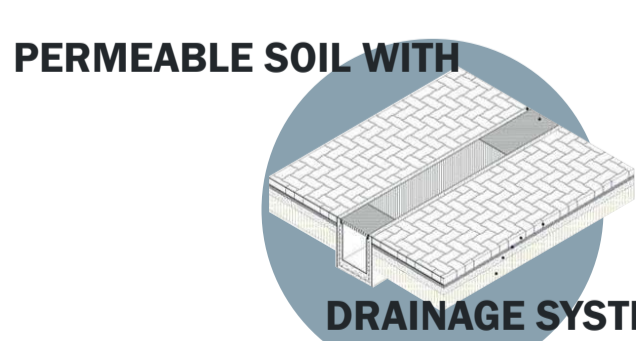


NORTH GREENHOUSE

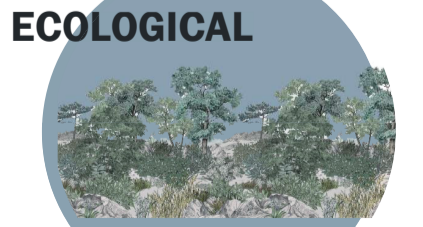
PUBLIC SPACE



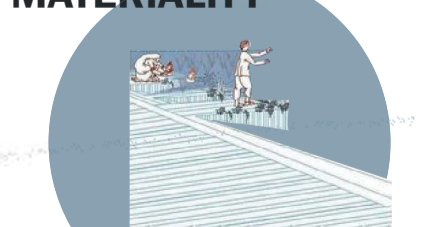
SOUTH GREENHOUSE



PERMEABLE SOIL WITH DRAINAGE SYSTEM

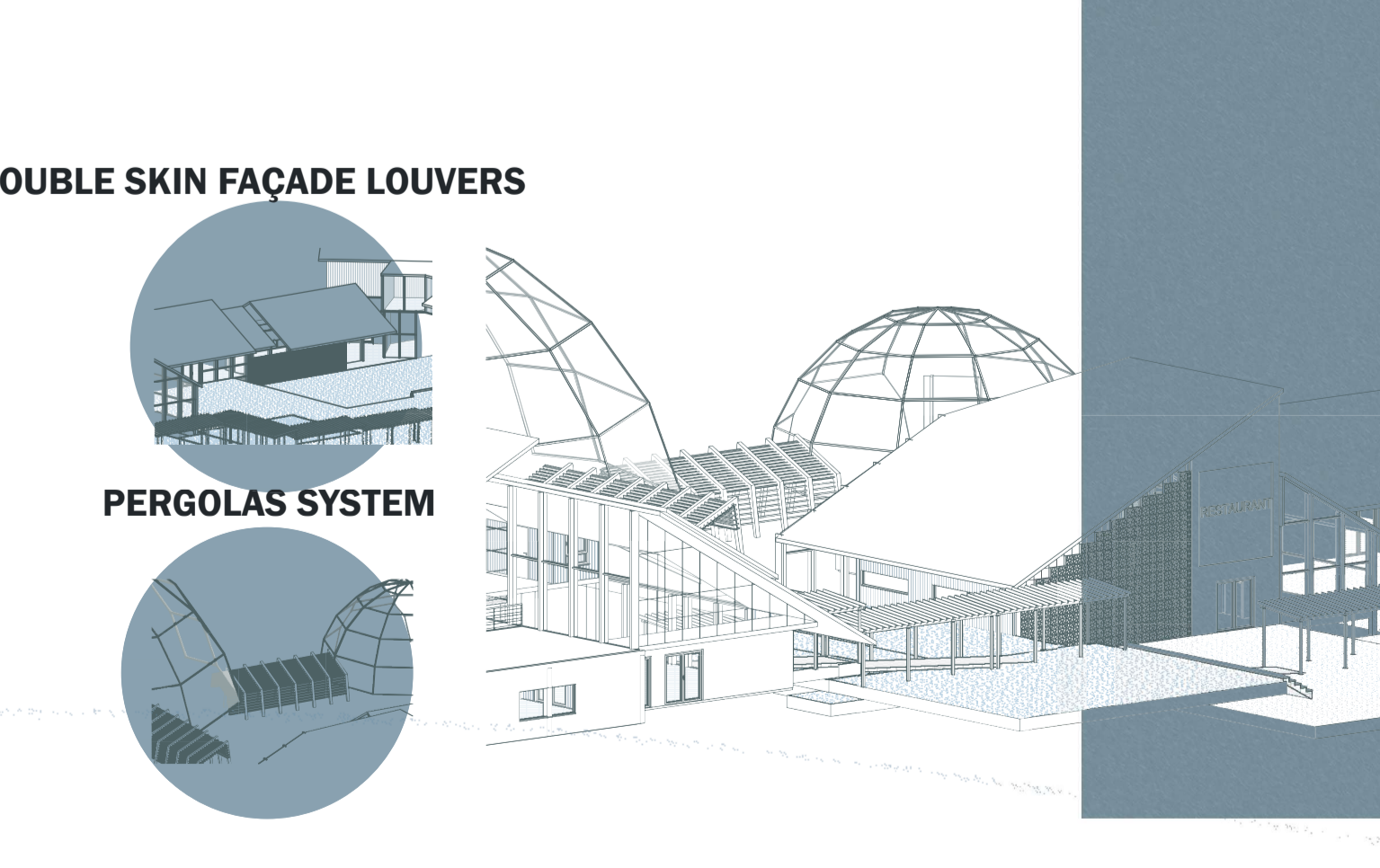


ECOLOGICAL MATERIALITY

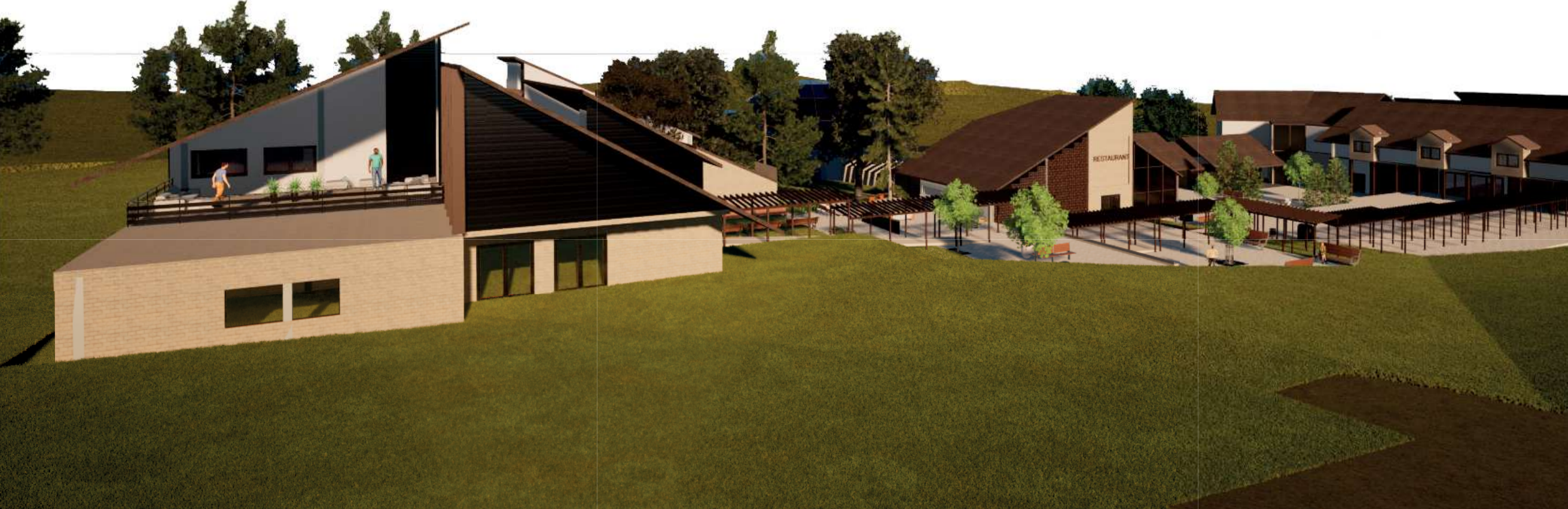
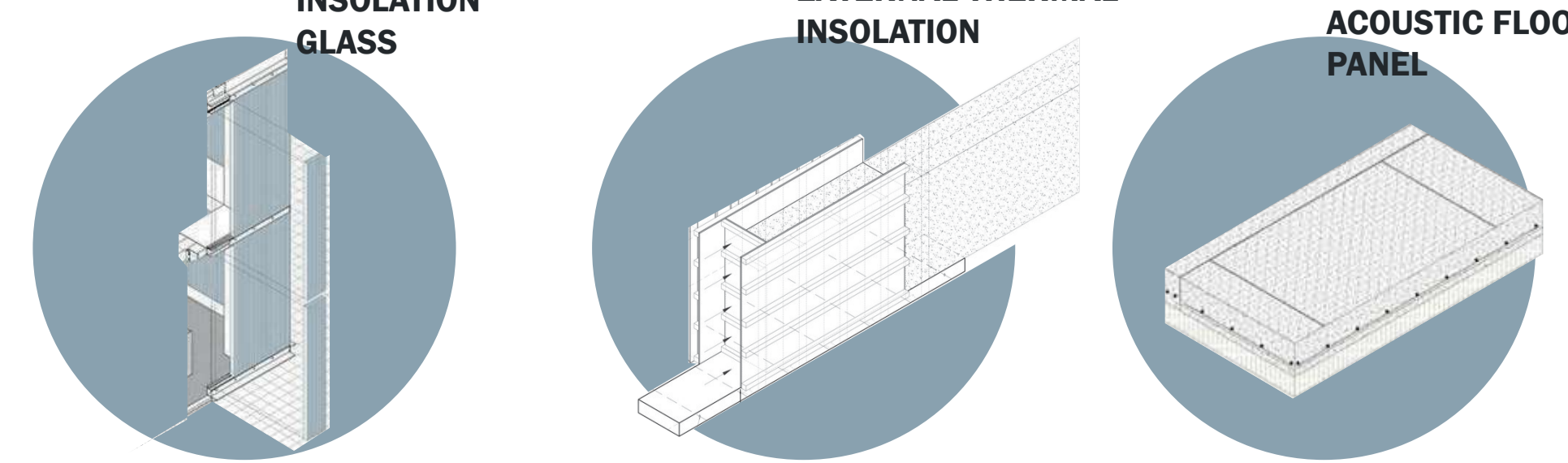


DIVERSITY CHANGES

FACADE DETAIL

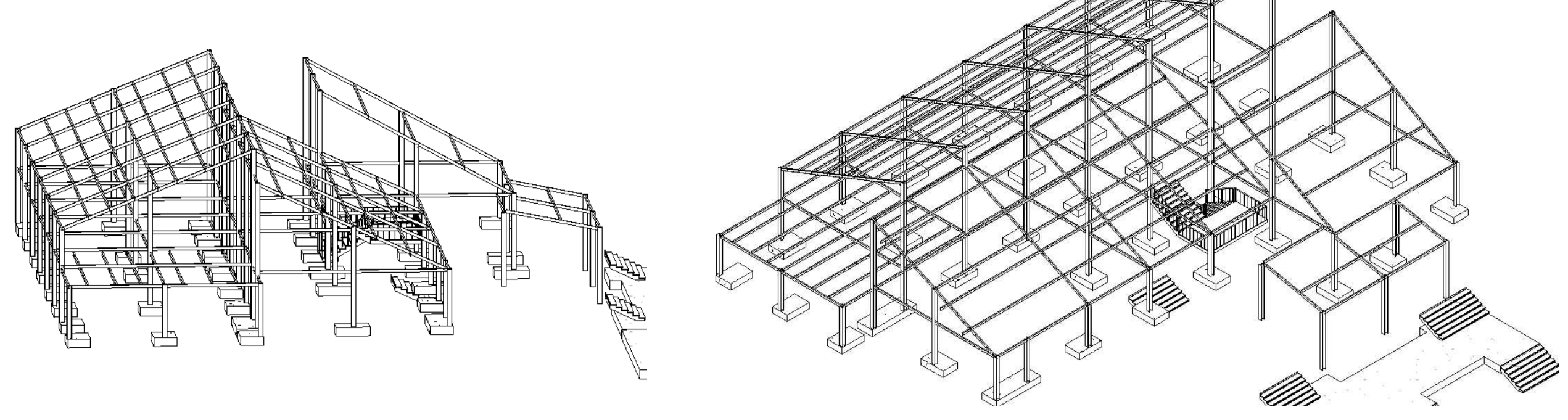


MATERIALS AND TECHNIQUE

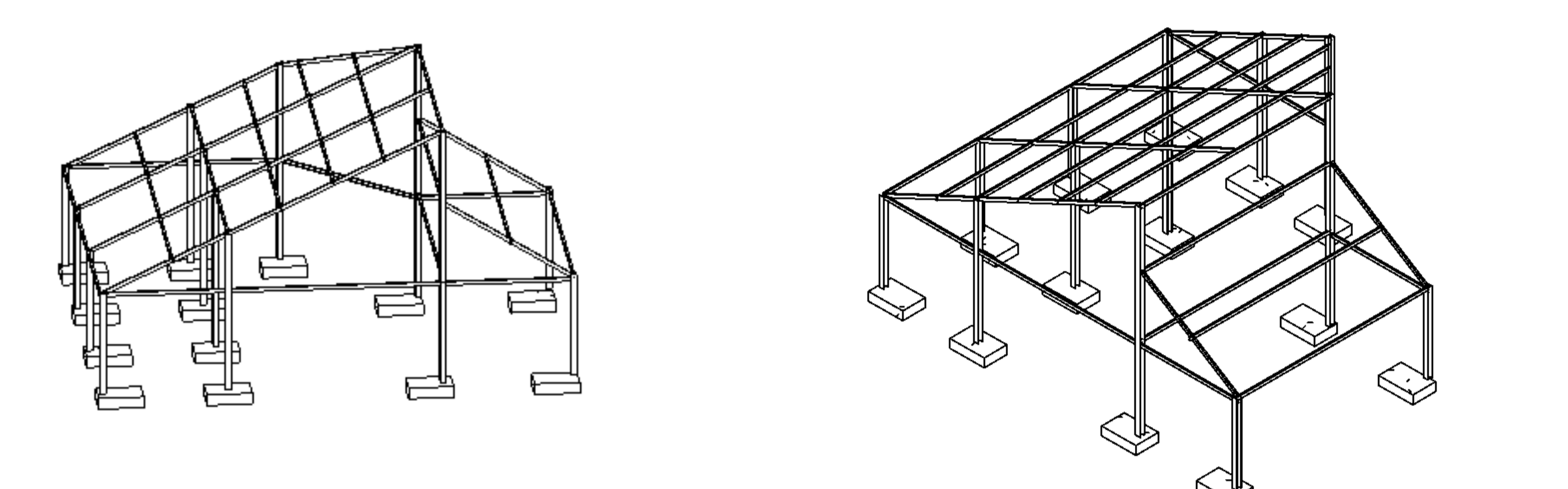


VILFONTAINE STRUCTURE

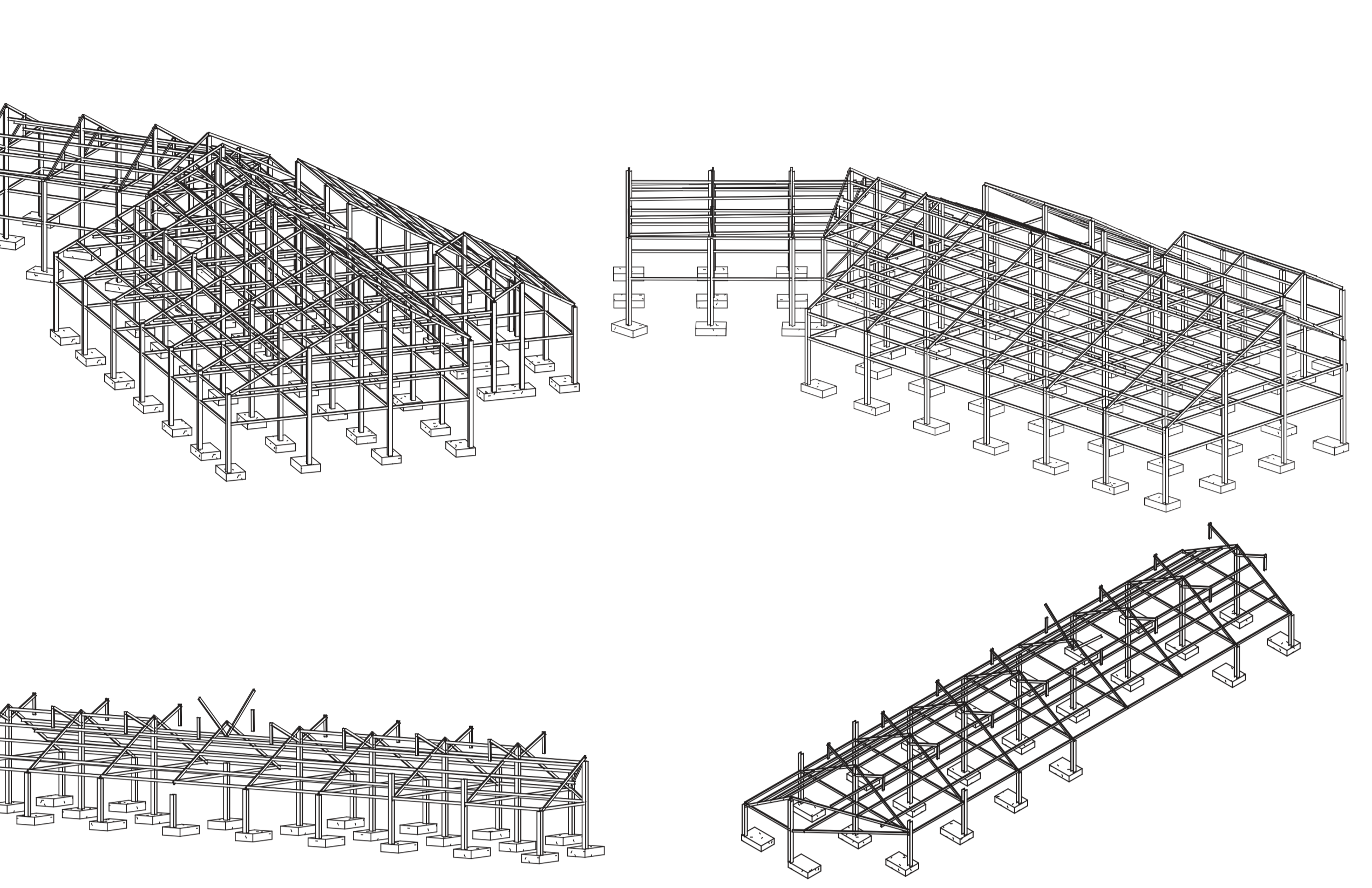
MODULE 1



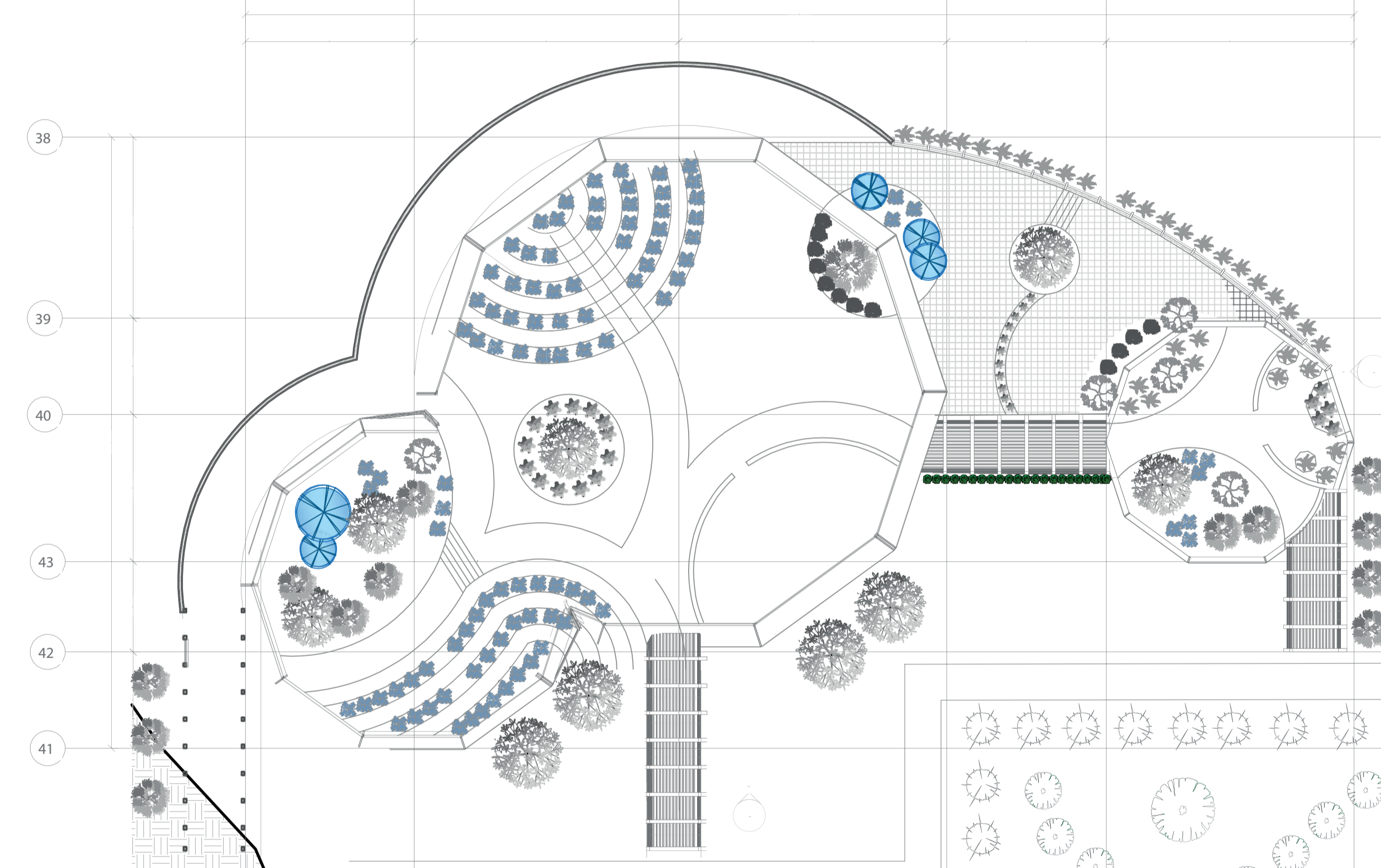
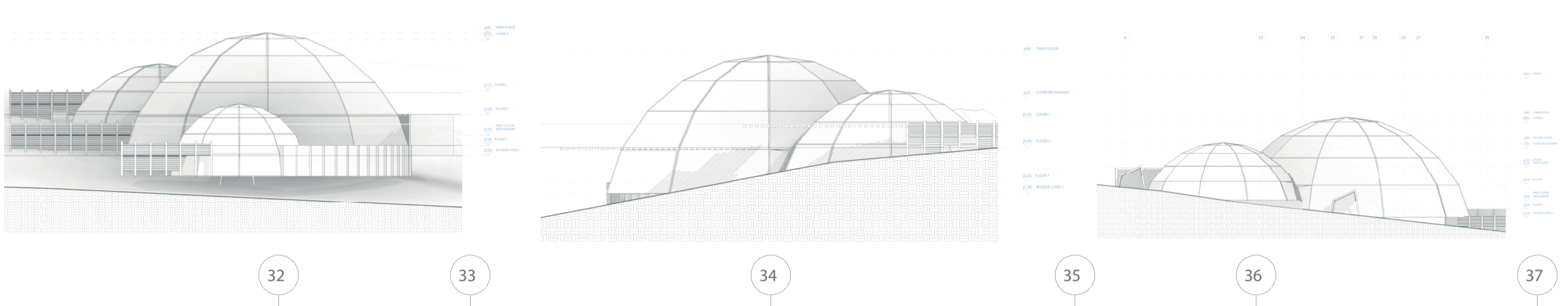
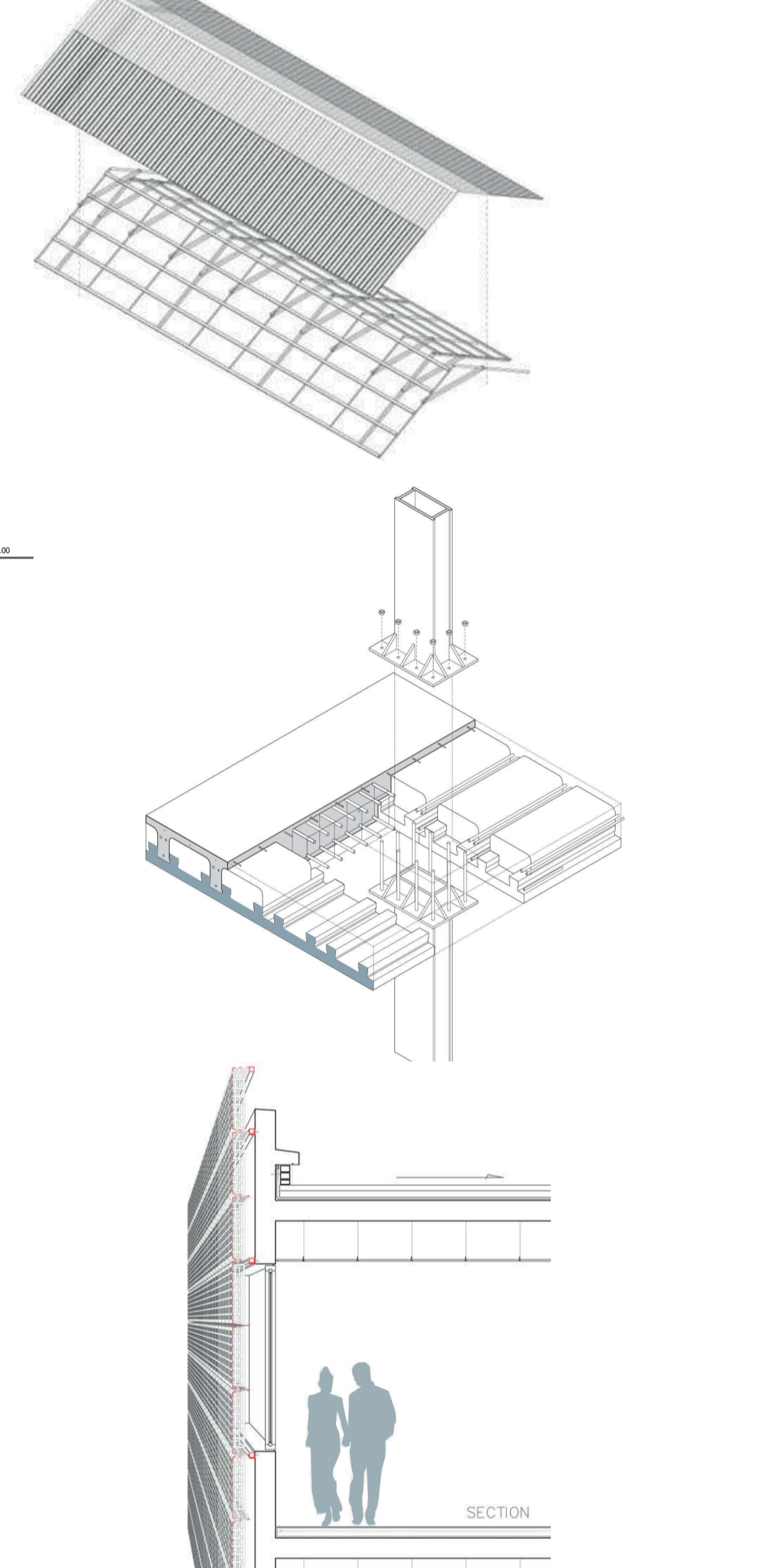
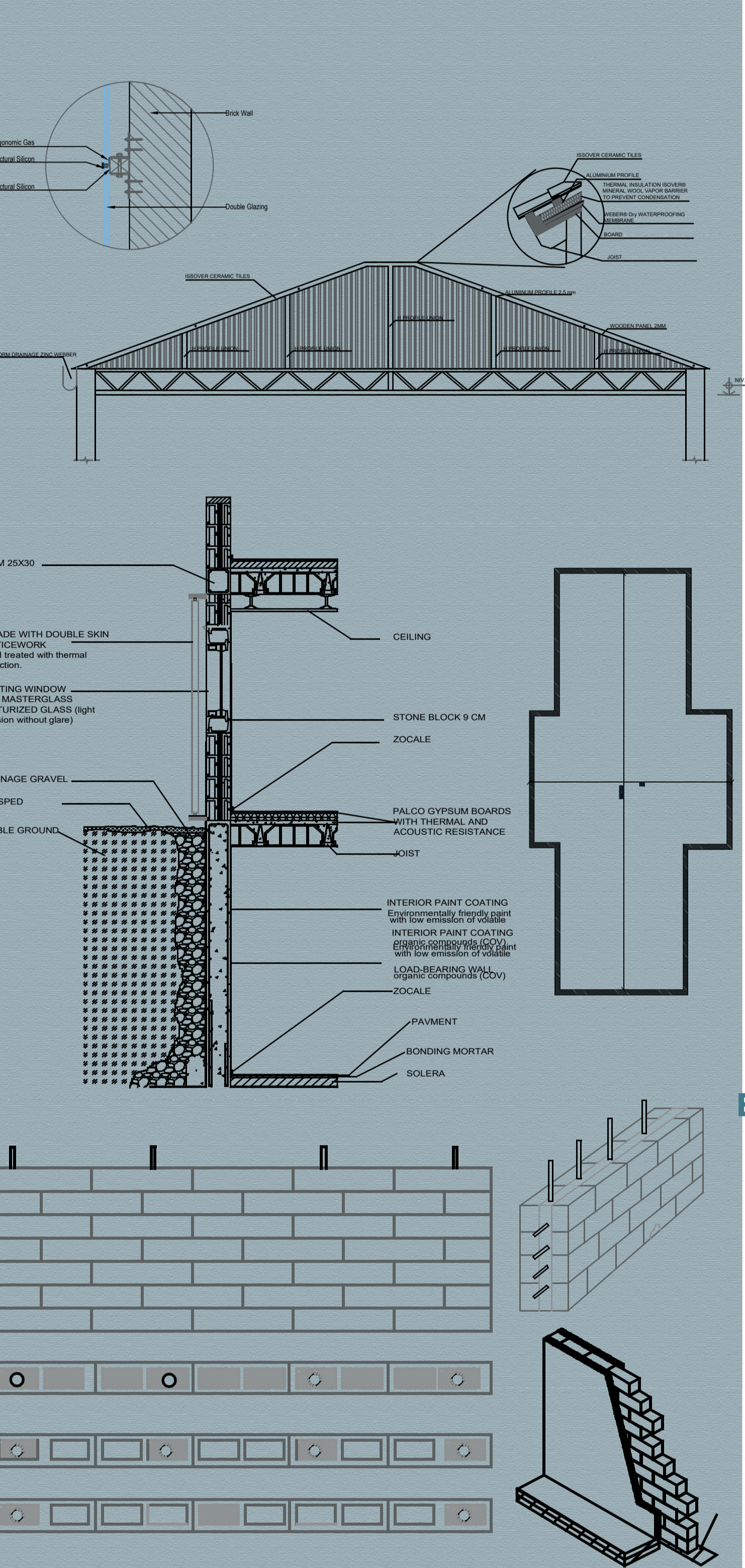
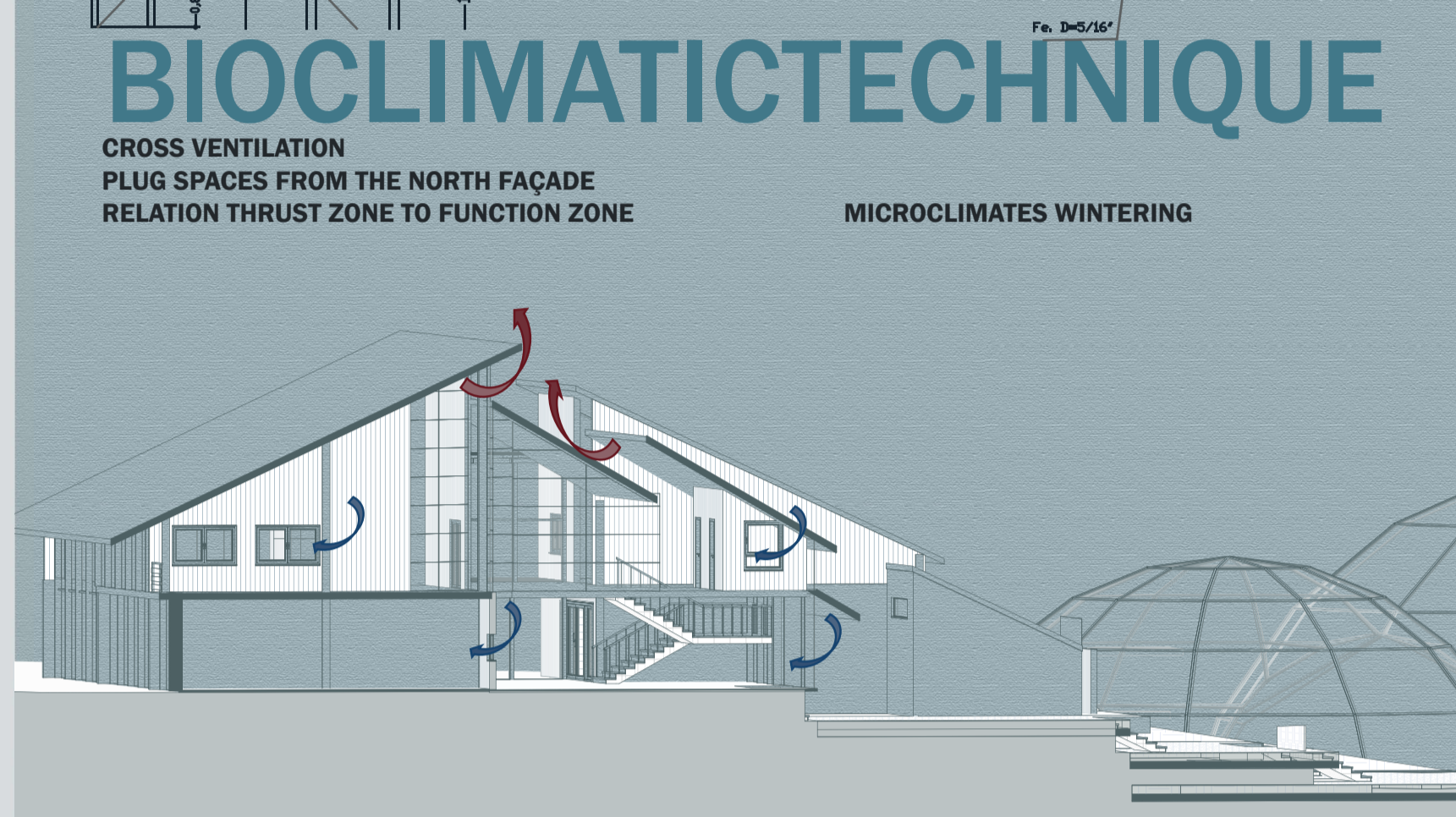
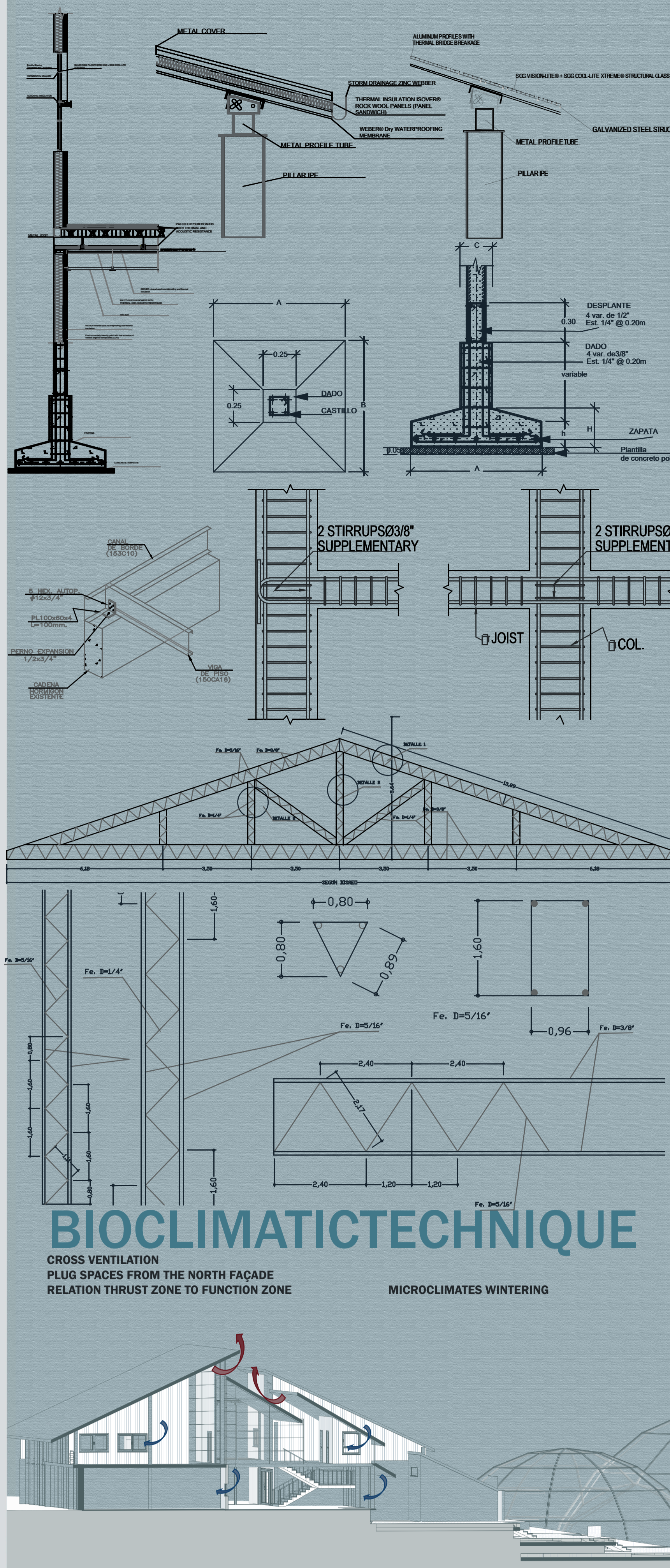
Restaurant



MODULE 2



SPECIFIC SECTIONS



ENERGY RESULTS

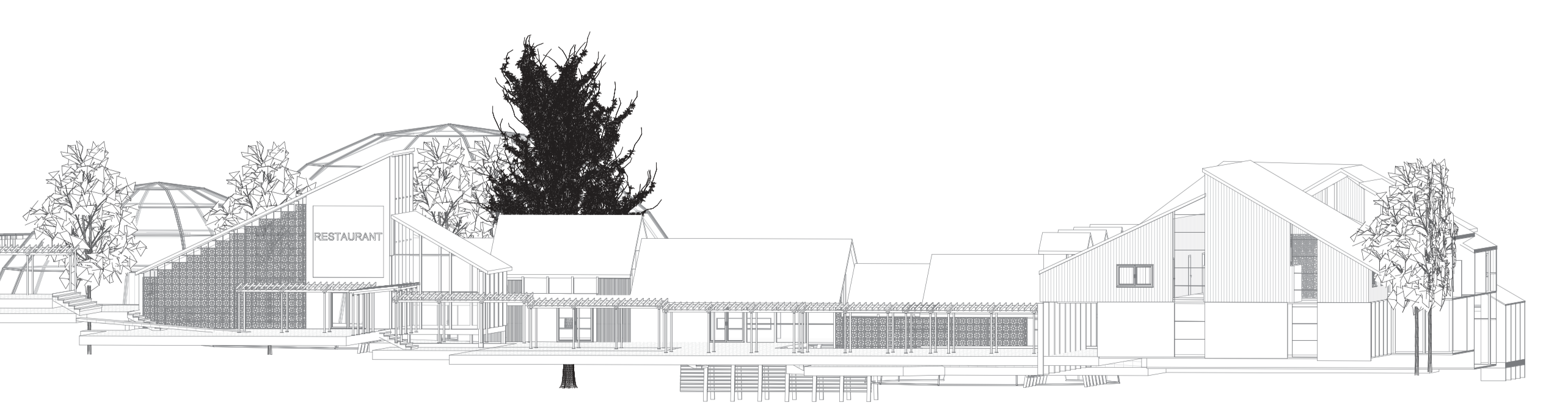
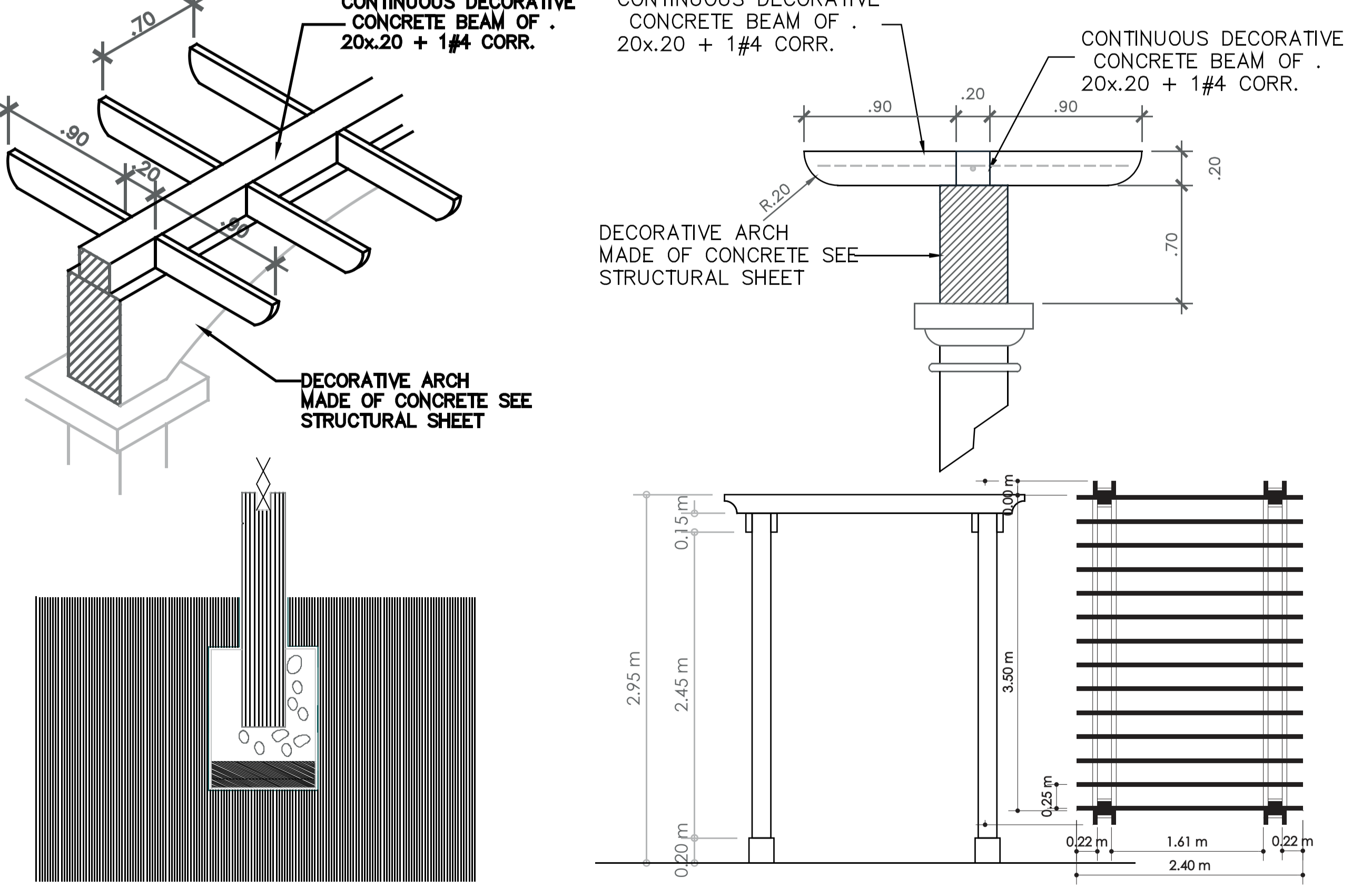
A1-A3 CONSTRUCTION MATERIALS	MOST IMPACT EXTERNAL WALLS
A5- INSTALLATION PROCESS	1,07E+07 kg CO₂e
A-4SITE TRANSPORTATION	1,19E+02 kg >-NON-FOSSIL RESOURCES
	MOST IMPACT EXTERNAL WALLS
	2,43E+06 kg CO₂e
	MOST IMPACT EXTERNAL WALLS
	4,88E+05 kg CO₂e

BIOPHILIA

B-4 B-5 REPLACEMENT AND MAINTENANCE	NO IMPACT USE OF THERMAL INSULATION AND RENEWABLE ENERGY
C- D LIFE AND CONSUME	MOST IMPACT EXTERNAL WALLS
	2,43E+06 kg CO₂e

- NORWAY MAPLE
- MORUS NIGRA
- SMALL-LEAVED LIME
- MYRTUS UGNI
- FIRCUS CARICA
- DRACANEA DRAC

SPECIFIC DETAILS



ENERGY CALCULATIONS

EQUIPO	CANTIDAD	CONSUMO EN VATIOS (W)	CONSUMO TOTAL EN VATIOS	HORAS DE USO AL DIA	CONSUMO ENERGIA EN WH/DIA
Televisor	18	1.920	34.560	4	138.240
Cargador de celular	50	960	48.000	4	192.000
Neviera	1	880	880	6	5.280
Bombillos led	82	1.110	91.020	6	546.120
Horno microondas	6	1.000	6.000	0,2	1.200
Lavadora	20	4.180	83.600	1	83.600
Aire acondicionado	6	4.500	27.000	2	54.000
Estufa electrica	2	440	880	2	1.760
Calentador	5	3.200	16.000	2	32.000
POTENCIA MÁXIMA			307.940		
CONSUMO TOTAL DE ENERGIA					1.054.200

RECOLECCIÓN DE AGUAS	2,2 LITROS
986 mm precipitación anual	
CUBIERTAS 2,726m ²	
ISOVER CERAMIC TLE C=0,8	
DISEÑO TANQUE ALMACENAMIENTO	33,8 H
L=4m	
W=3m	
	40,5 LITROS
RENOVACION DE AIRE EN EL ESPACIO	7366,8 VOLUMEN VILFONTAINE
V= 2,726 X 2,7 X 170 M ³	44161,2 CAUDAL AIRE NECESARIO
6 Renovaciones/hora	44,16 m³/h CAUDAL AIRE NECESARIO
NUMERO DE PANELES	87 PANELES
NUMERO DE PANELES	1.317.200
NUMERO DE PANELES	972.000
CAPACIDAD DE BATERIAS	1317200
CORRIENTE CONTROLADOR DE CARGA	239,583333

