

FROM VACANT BUILDING 028



P5 THOMAS VAN DER GEEST 03-07-2018 ARCHITECTURAL ENGINEERING 1/88

TOWARDS A FUTURE PROOF BUILDING



TABLE OF CONTENT

MOTIVATION

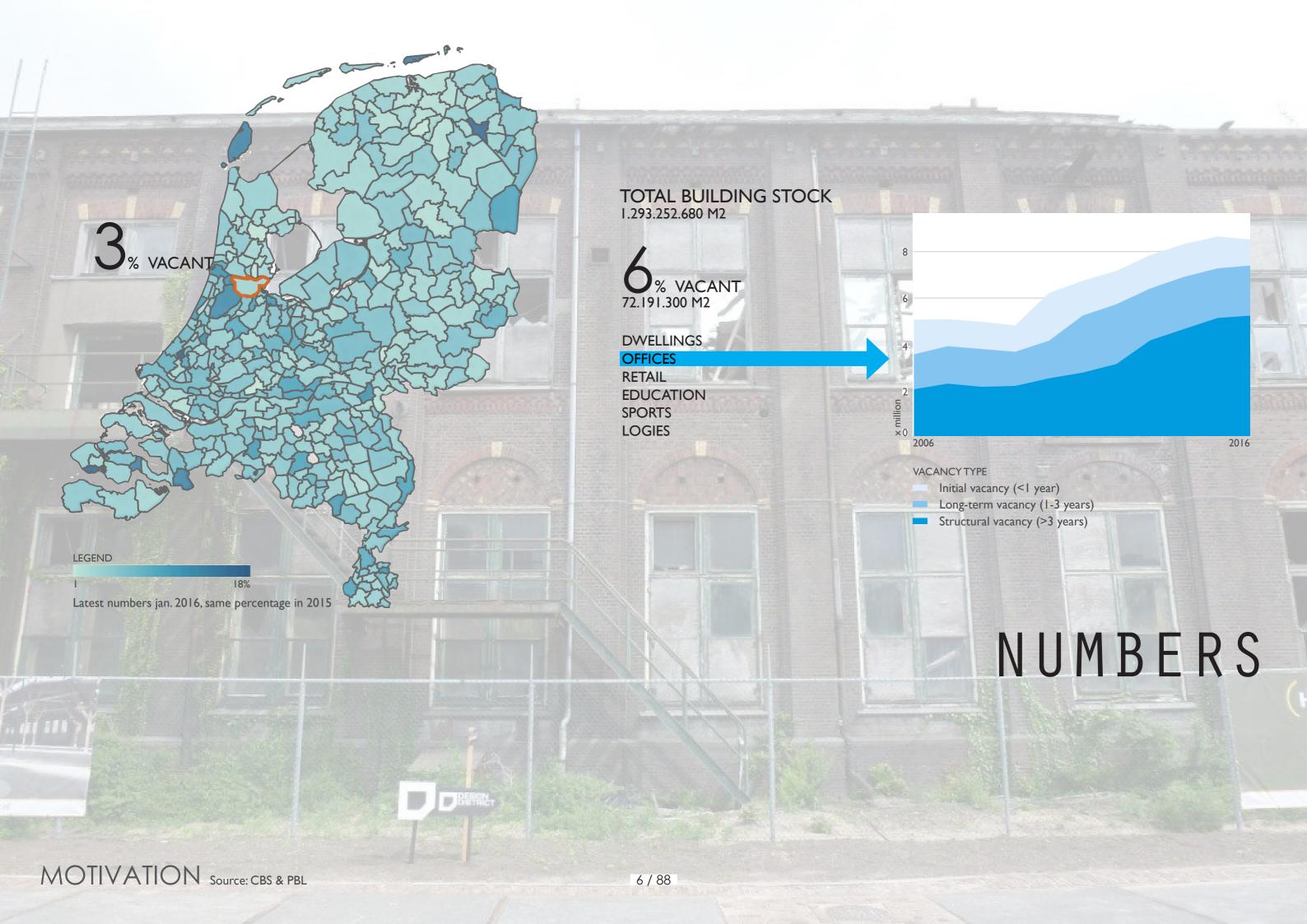
OBJECTIVE

RESEARCH & ANALYSIS

DESIGN

MOTIVATION





- NO MAINTENANCE
- PHYSICAL AND ESTHETICAL QUALITIES DECLINE
- IRREPARABLE DAMAGE TO CONSTRUCTION
- NEGATIVE INFLUENCE ON (SOCIAL) ENVIRONMENT

DECAY

"OUR CITIES ARE STATIC, OUR BUILDINGS ARE STATIC,

BUT WE AS USER ARE DYNAMIC"

SOCIAL CHANGE
TECHNOLOGICAL CHANGE
CONTEXTUAL CHANGE
CLIMATOLOGICAL CHANGE
CHANGE IN POLICIES AND REGULATIONS

STATIC

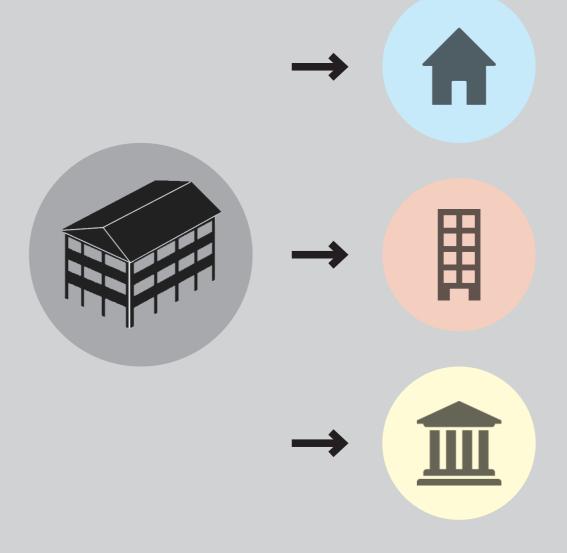


DYNAMIC

FUNCTIONAL DURABILITY	
ECONOMIC DURABILITY	
AESTHETIC DURABILITY	
TECHNICAL DURABILITY	

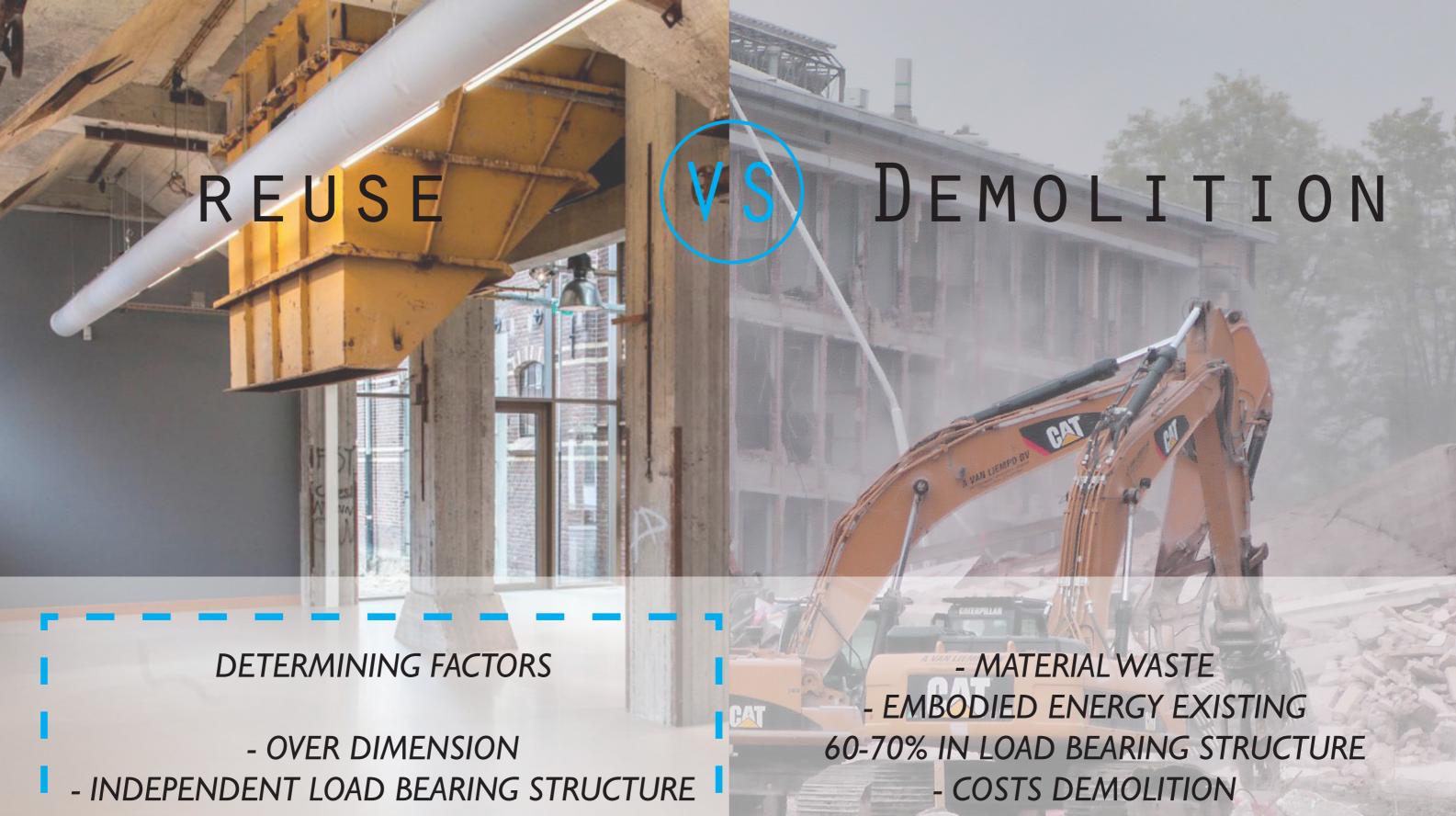
DURABILITIES

"TRANSFORMING THE BUILDING COMPLETELY TO THE REQUIREMENTS AND PREFERENCES OF ONE PARTICULAR FUNCTION"



COMMON APPROACH

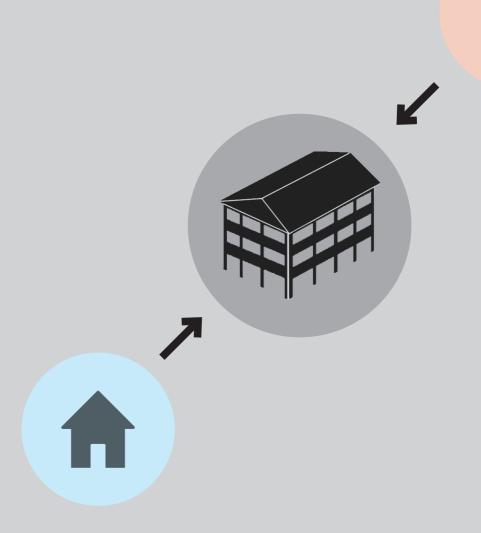
OBJECTIVE



- LOCATION

- EMBODIED ENERGY REBUILD

"DEVELOP A STRATEGY WHEREBY FUNCTION CHANGE CAN BE ACCOMPLISHED WITH MINIMAL TECHNICAL INTERVENTIONS AND MODIFICATIONS"



FUTURE PROOF APPROACH

FUNCTIONAL DURABILITY

ECONOMIC DURABILITY

AESTHETIC DURABILITY

TECHNICAL DURABILITY

DURABILITIES

RESEARCH & ANALYSIS

DECOMPOSE BUILDING



POSSIBLE FUNCTIONS

BUILDING LAYERS & ELEMENTS

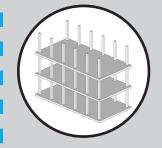
CONTEXT DEPENDENT

COMPATABILITY SCHEME
BETWEEN FUNCTIONS

FOCUSED ON EVERY LAYER OF A BUILDING

SPACE PLAN	OFFICE 1-5 YEARS DWELLING 30 YEARS		
SERVICES	OFFICE 10-15 YEARS DWELLING 30 YEARS		
SKIN	OFFICE 20-30 YEARS DWELLING 50-60 YEARS		
ACCES		OFFICE 100 YEARS DWELLING 100 YEARS	

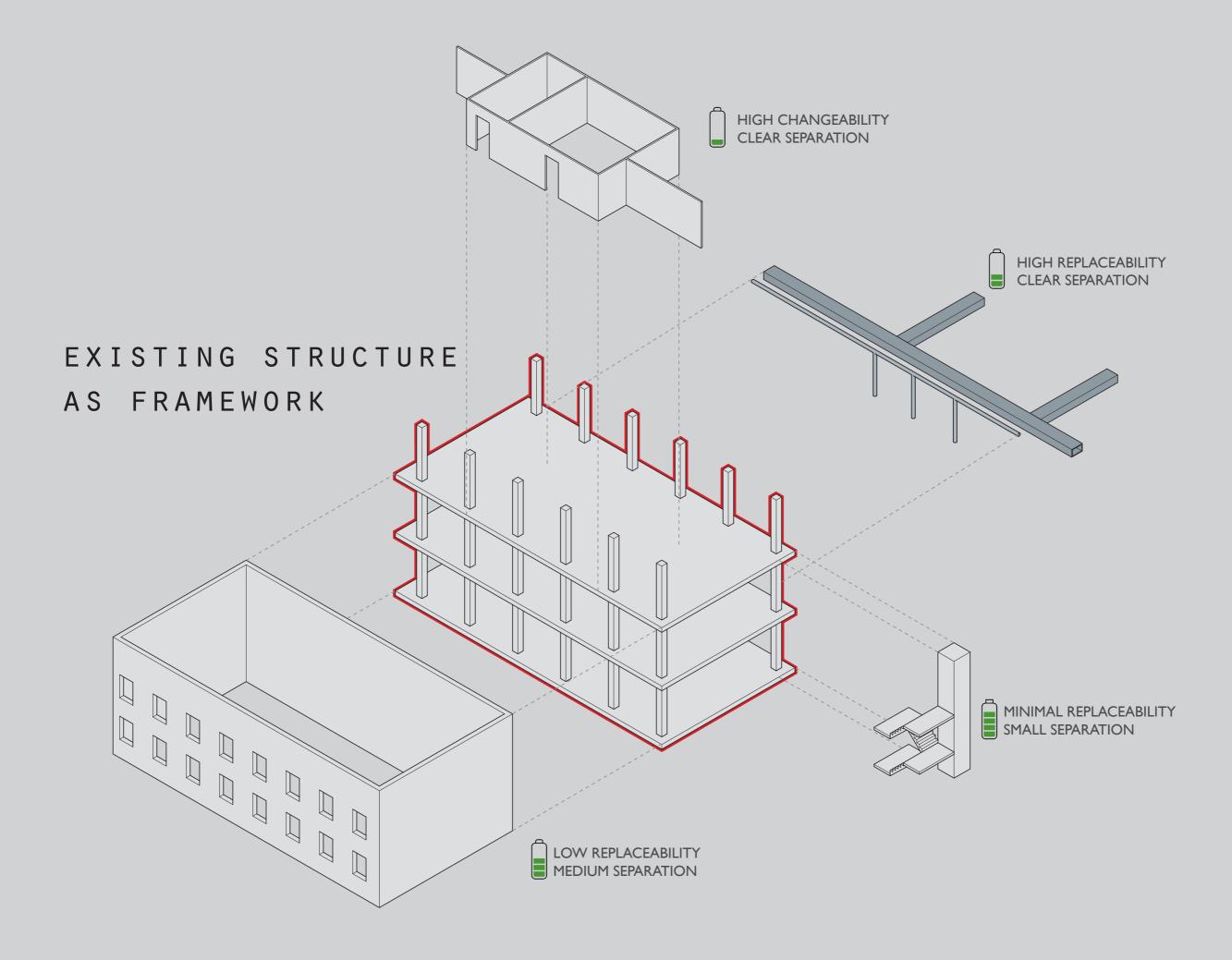




DEPENDING ON STATE OF CONSTRUCTION

POTENTIAL

200 YEARS

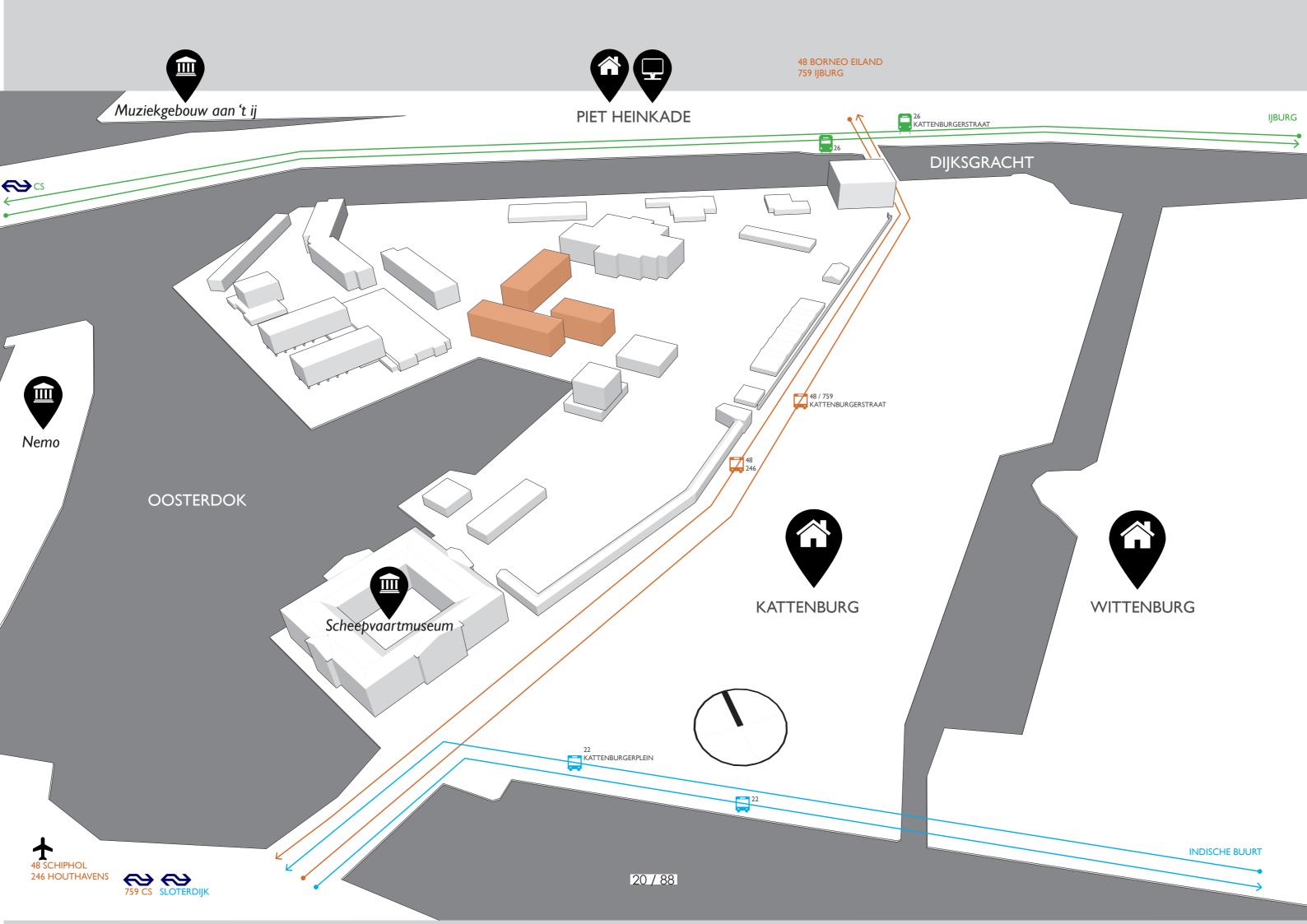


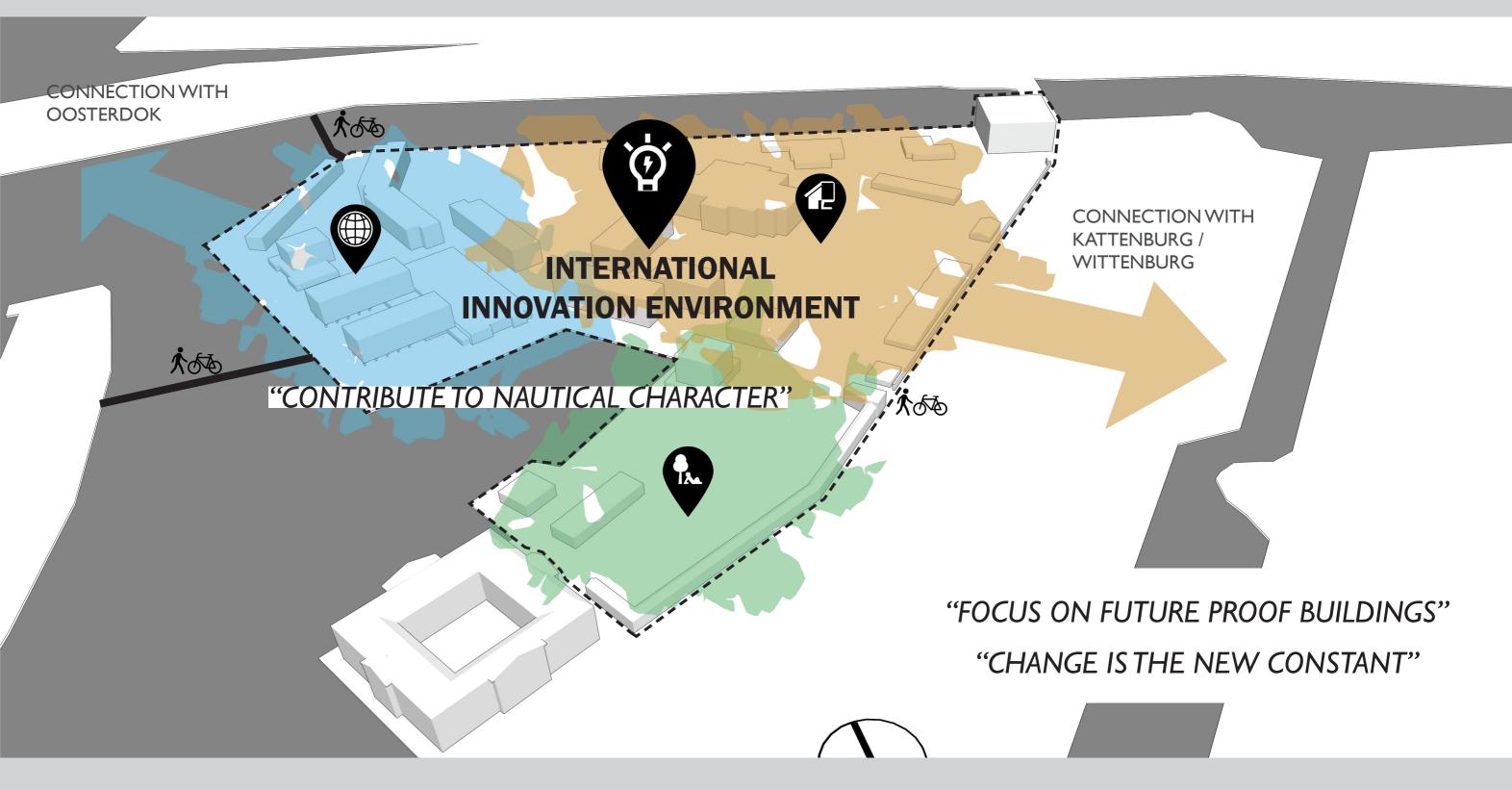


CONTEXT



MARINE ESTABLISHMENT AMSTERDAM





BUILDING ON CROSSING POINT OF WORK AND LIVE ENVIRONMENT

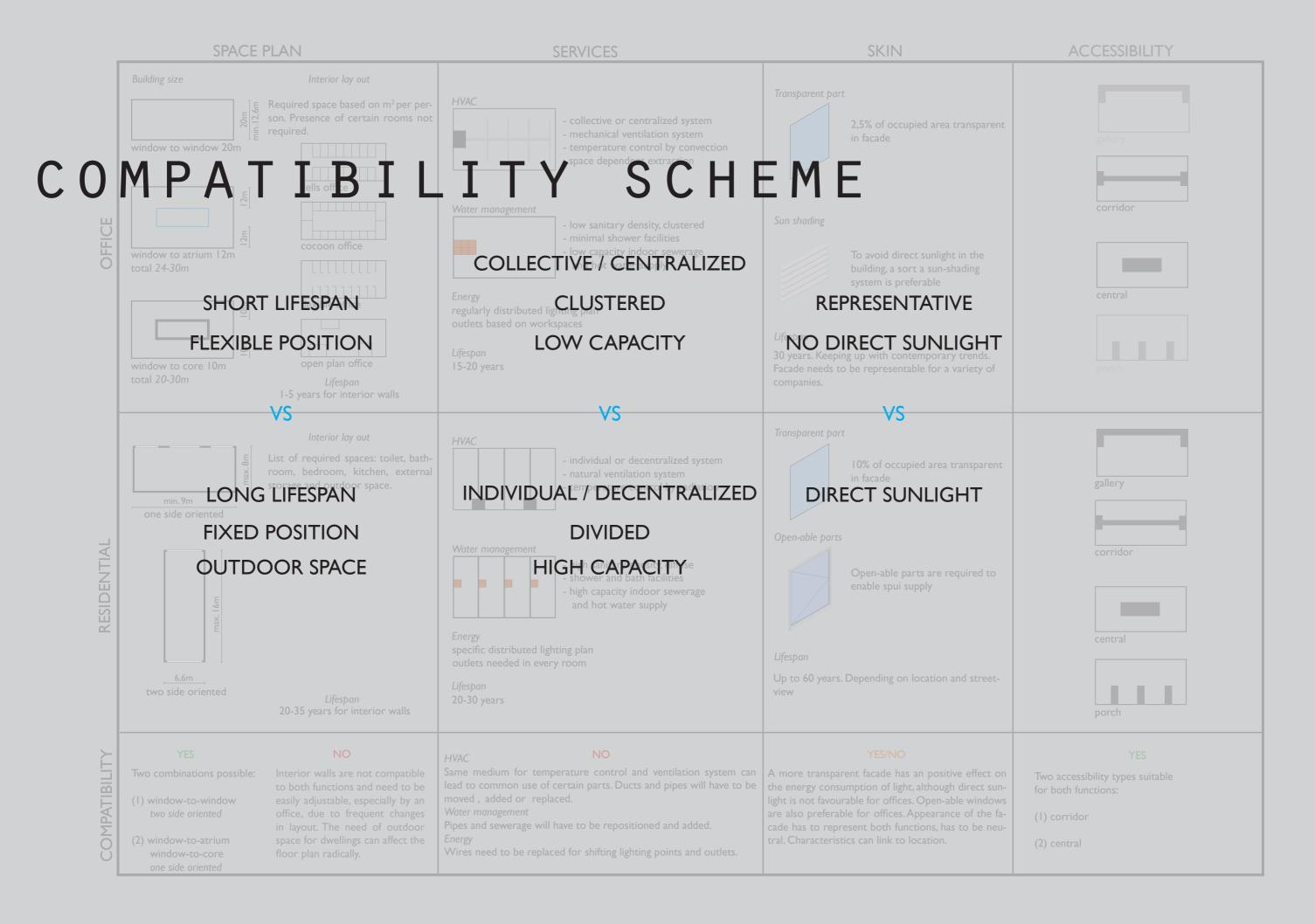


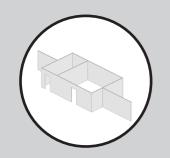
RESIDENTIAL SUPPORTIVE TO AREA CONCEPT

FLEXIBLE HOUSING
SINGLE/COUPLE HOUSING <50M²
FAMILY HOUSING
SHARED FUNCTIONS LAUNDRY, CLEANING
OUTDOOR SPACE

ENTREPRENEURIAL DYNAMISM

INNOVATIVE START-UPS
RAPIDLY GROWING START-UPS
FLEX/ENCLOSED WORKSPACE



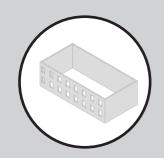


HIGH CHANGEABILITY
UNIVERSAL SYSTEM

DRY CONNECTIONS
DRY FINISH



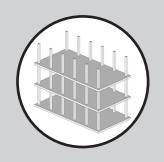
HIGH ACCESSIBILITY & CHANGEABILITY



UNIVERSAL APPEARANCE
ADAPTABLE TO NEEDS OF USER



UNIVERSAL FOR BOTH FUNCTIONS

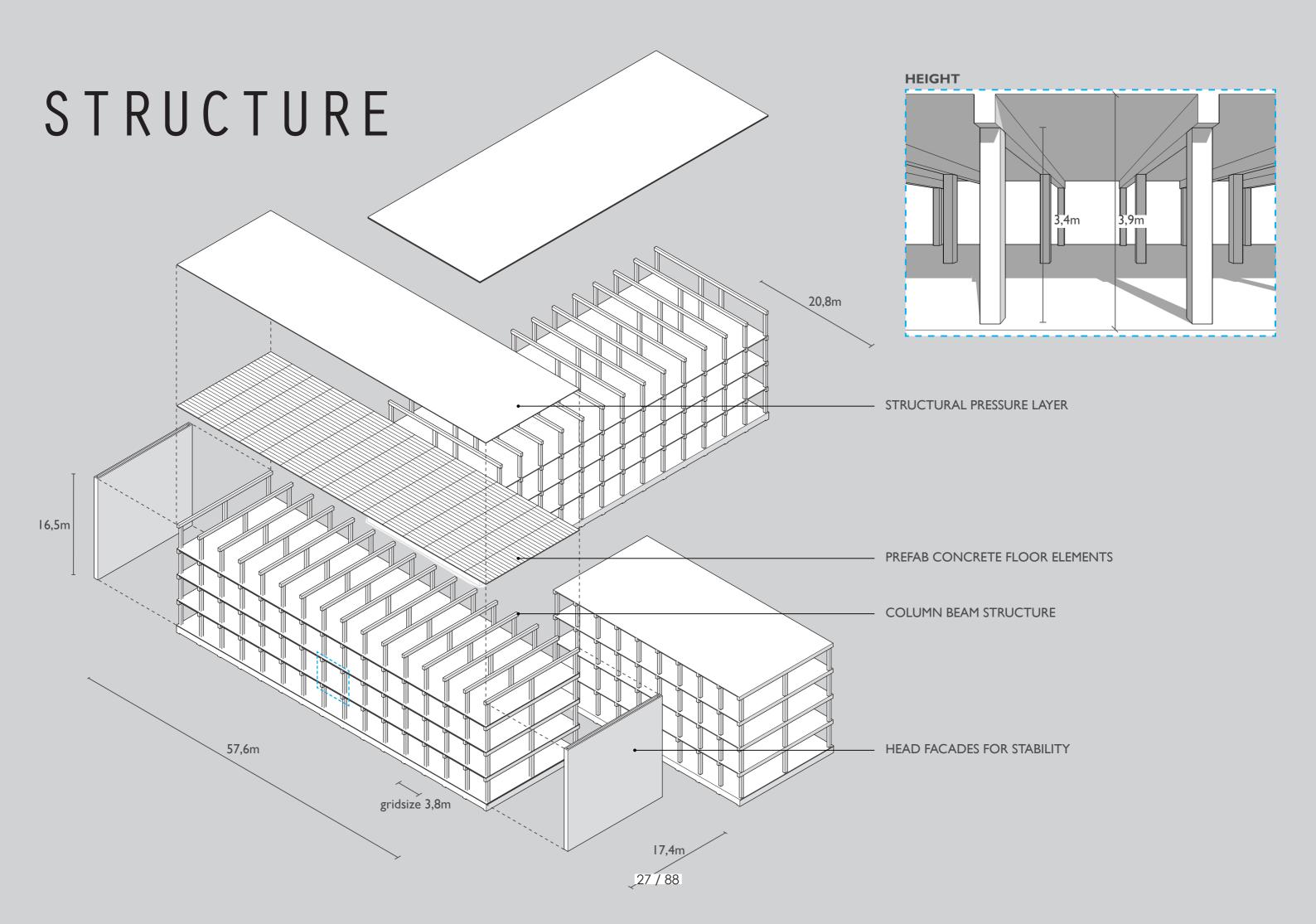


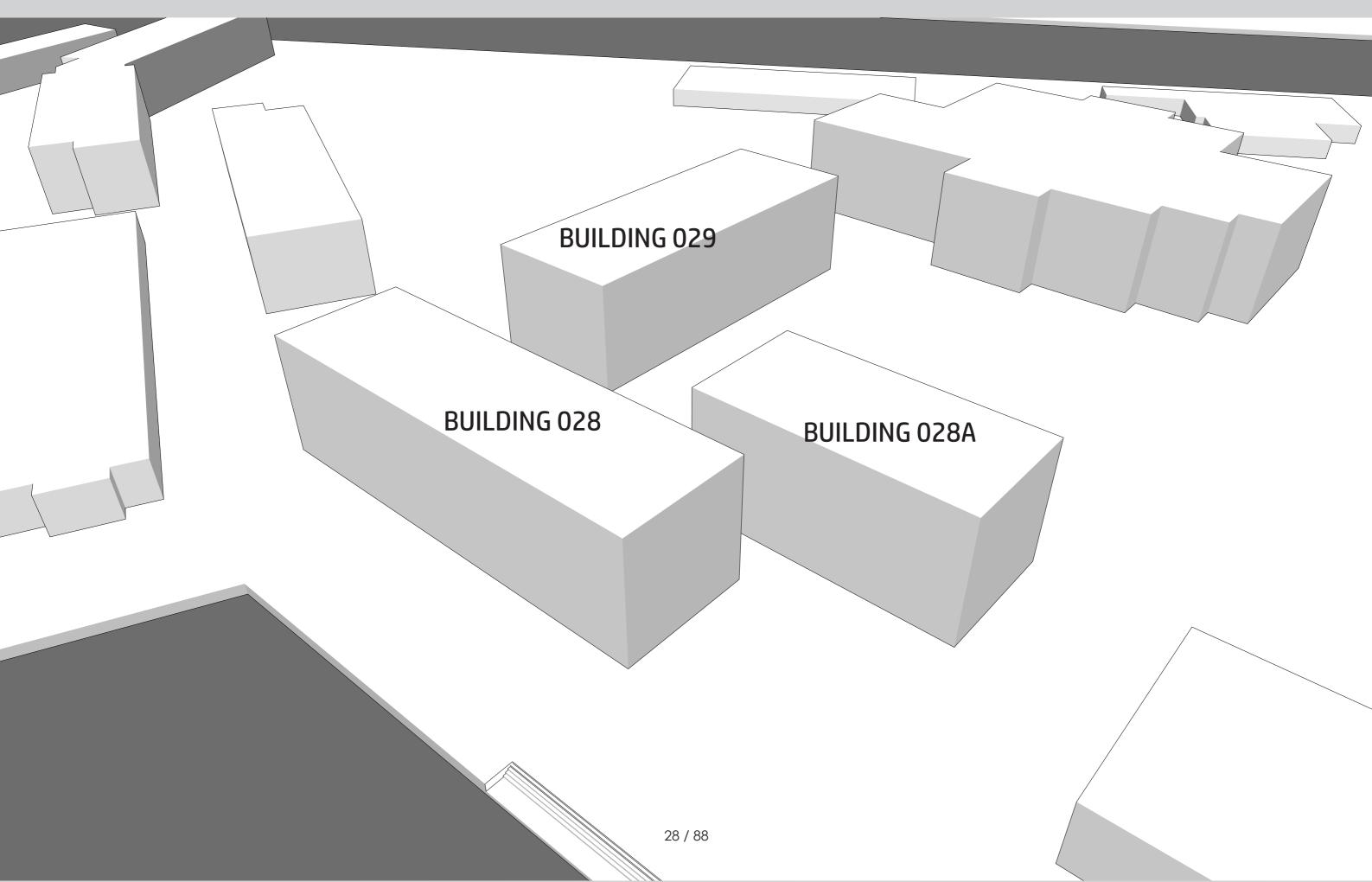
BASE FOR BOTH FUNCTIONS

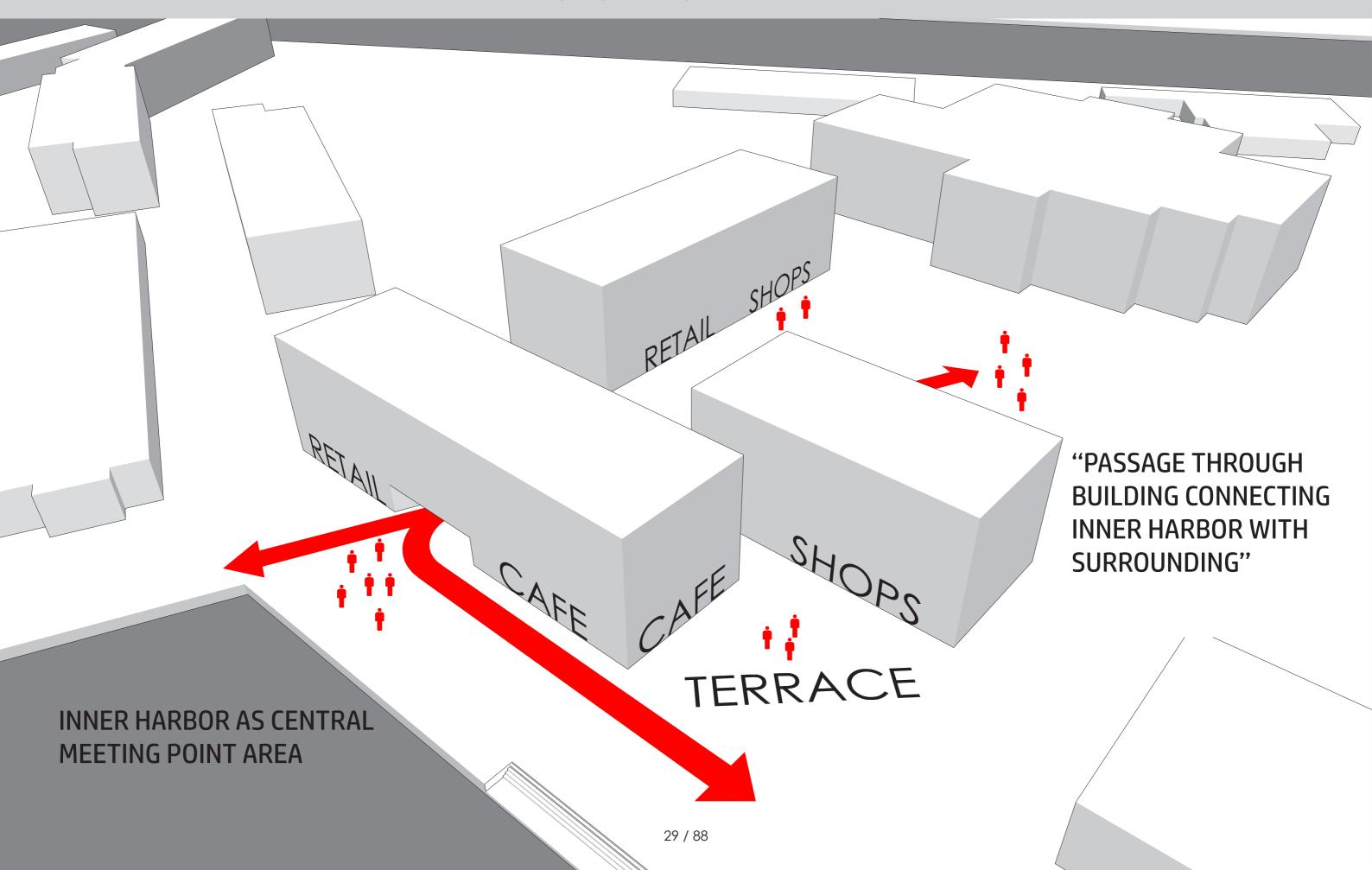
DESIGN

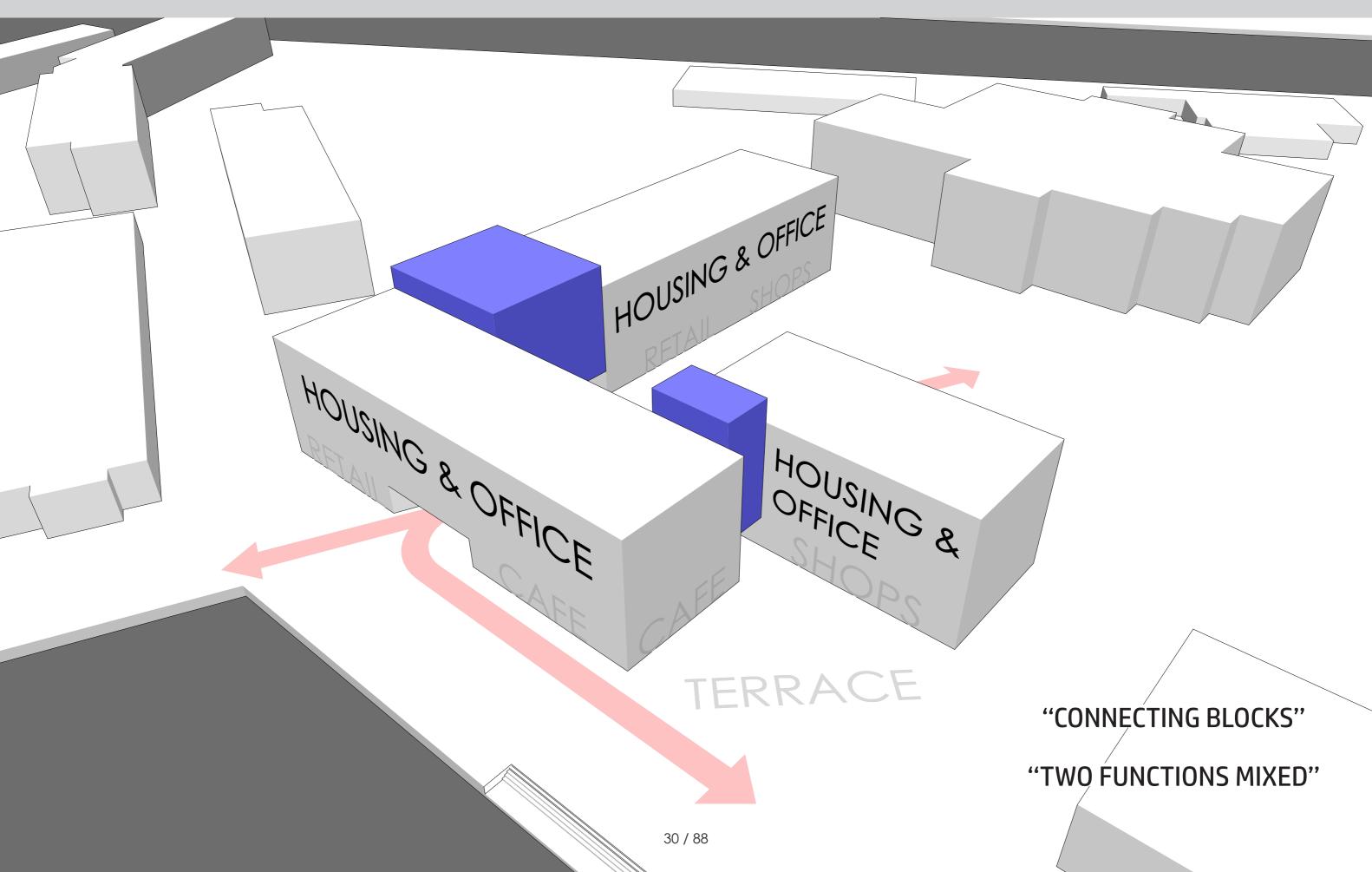
BUILDING 028

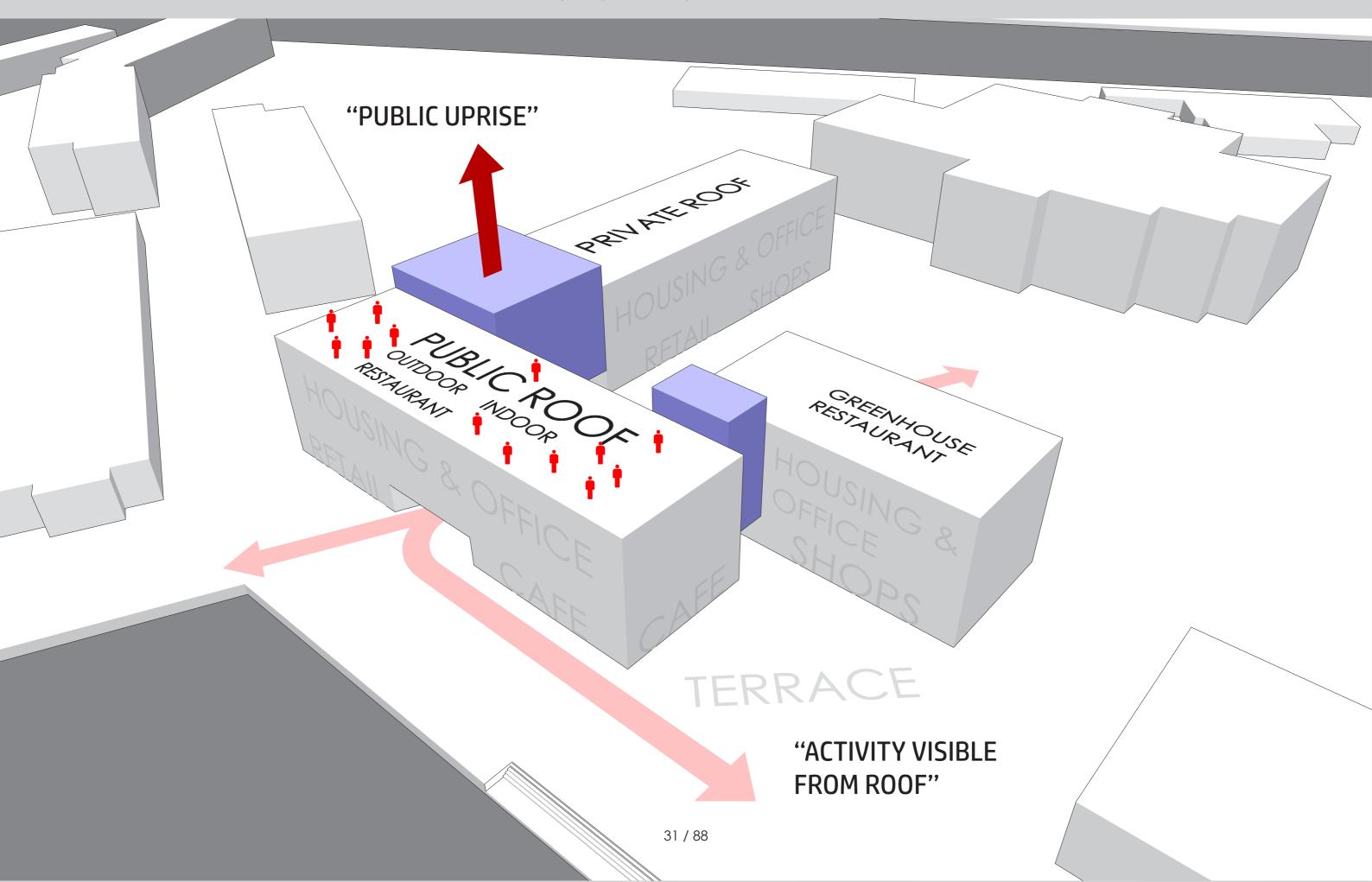




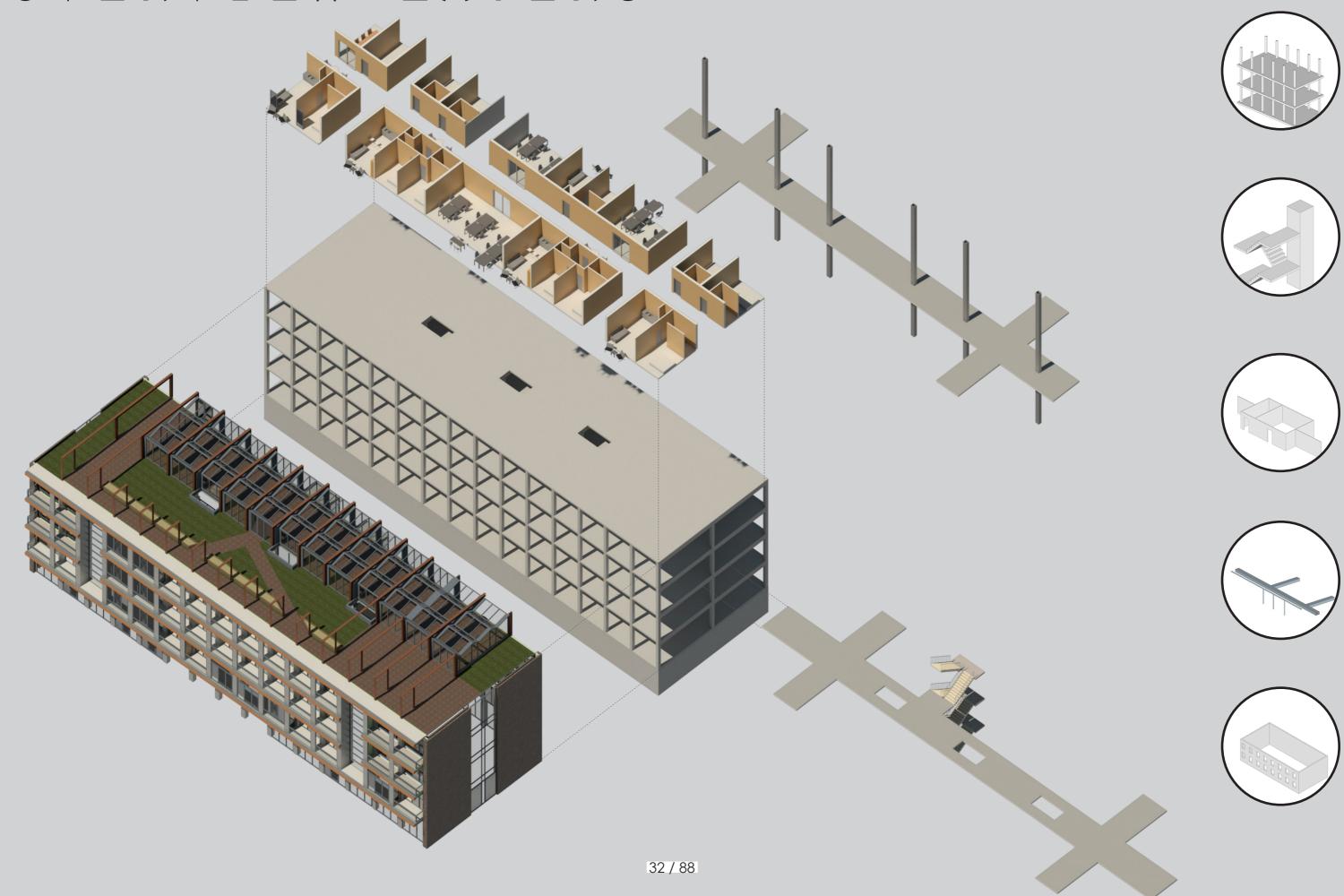




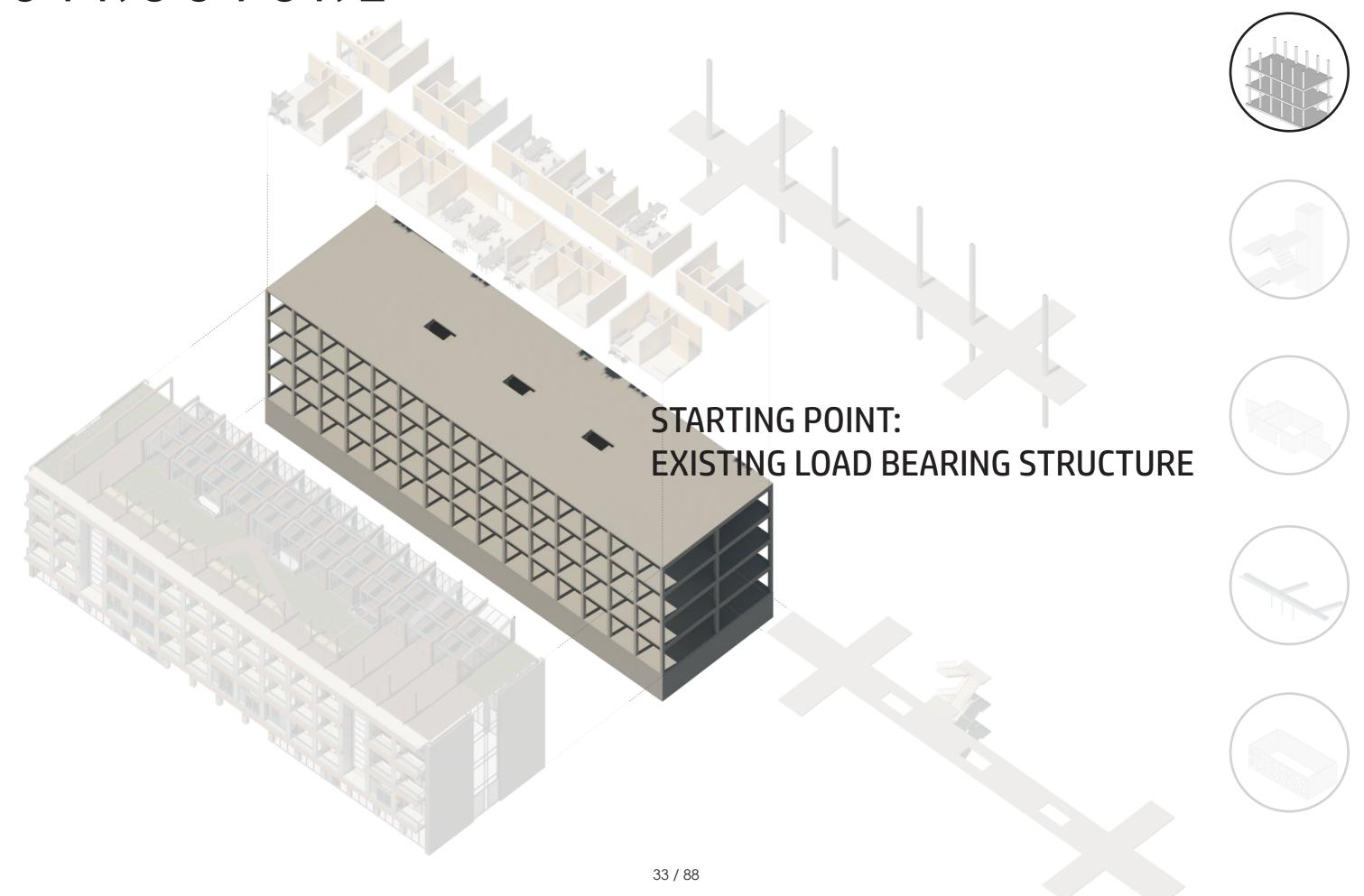




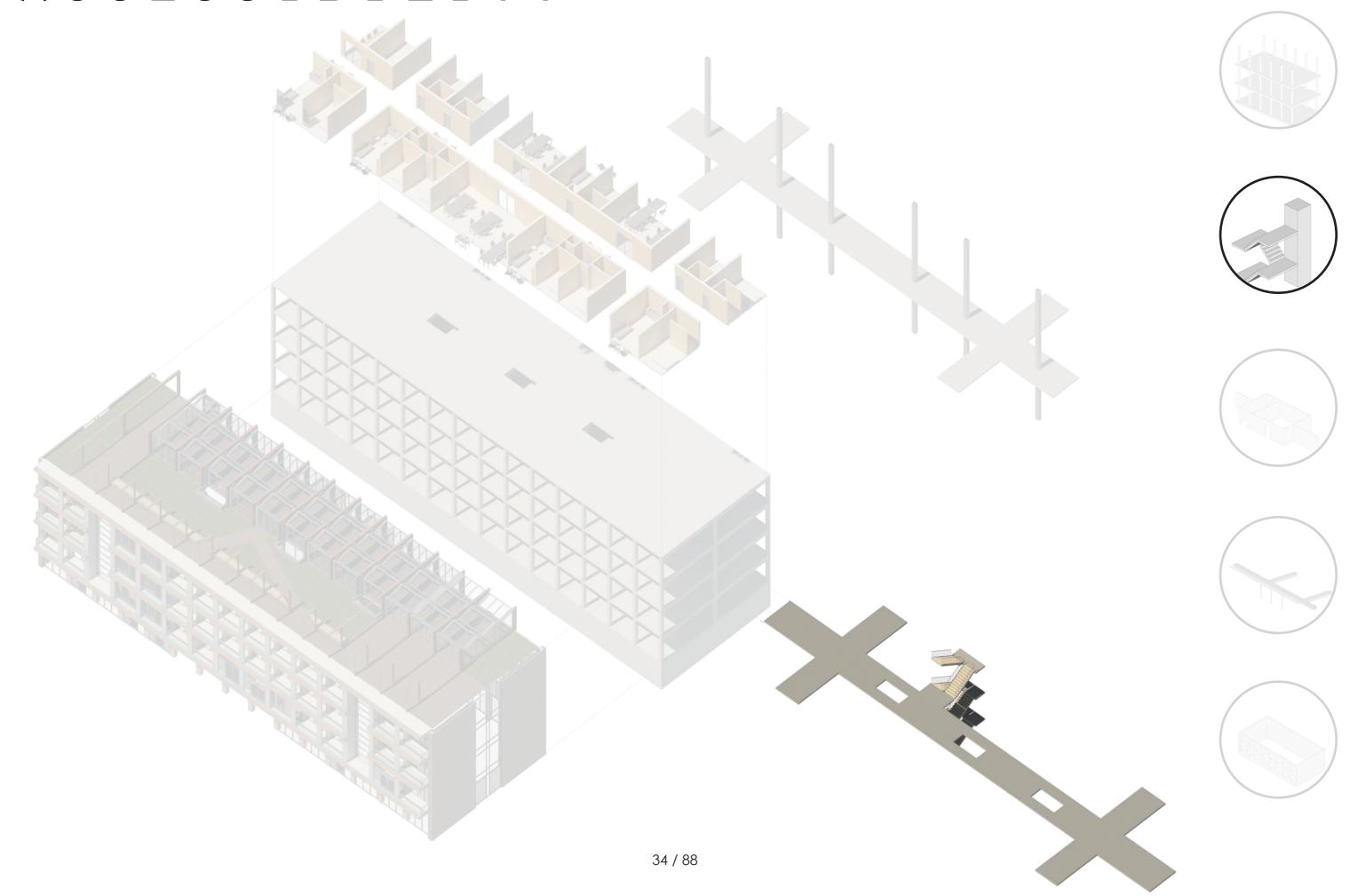
OVERVIEW LAYERS

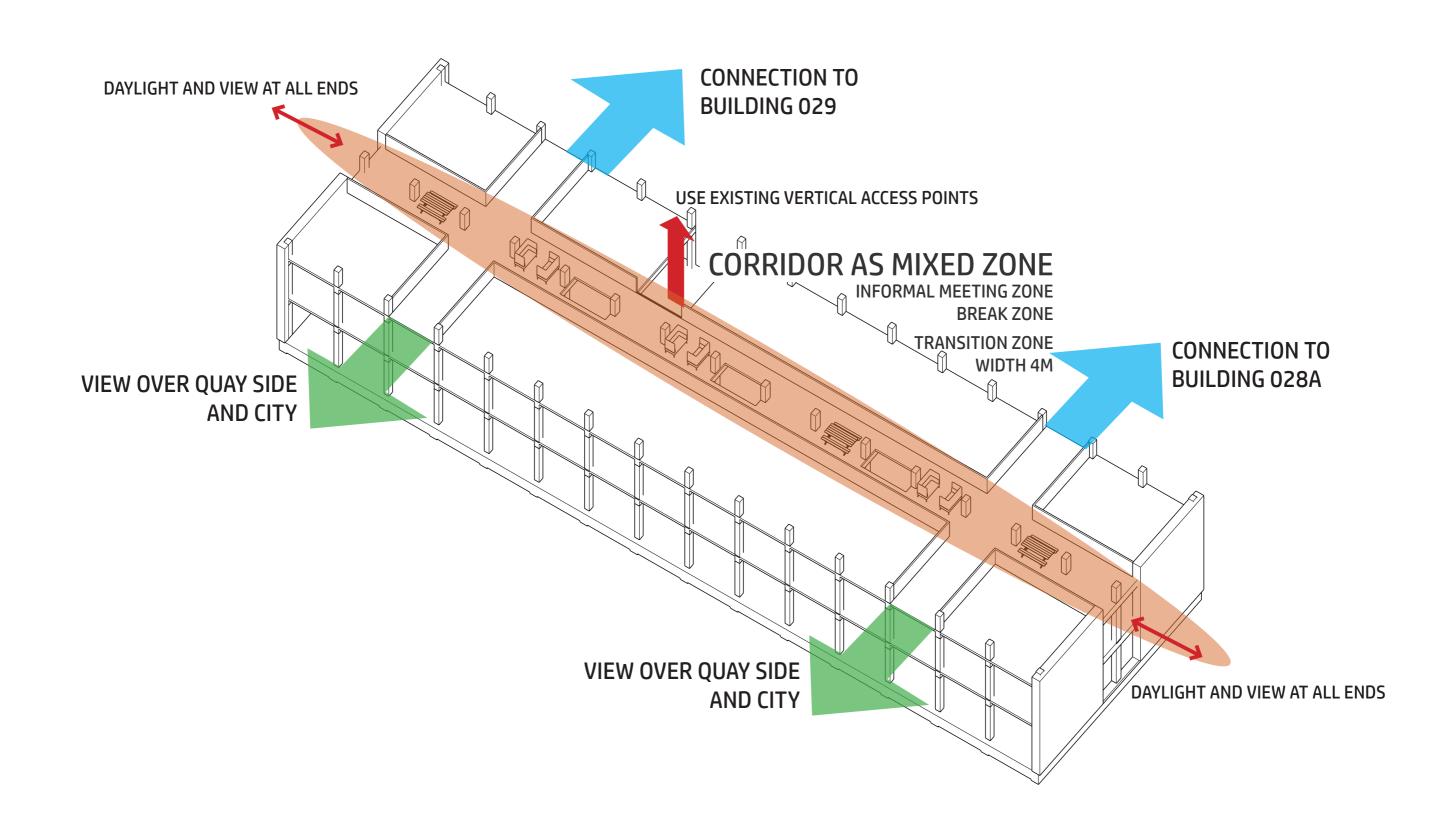


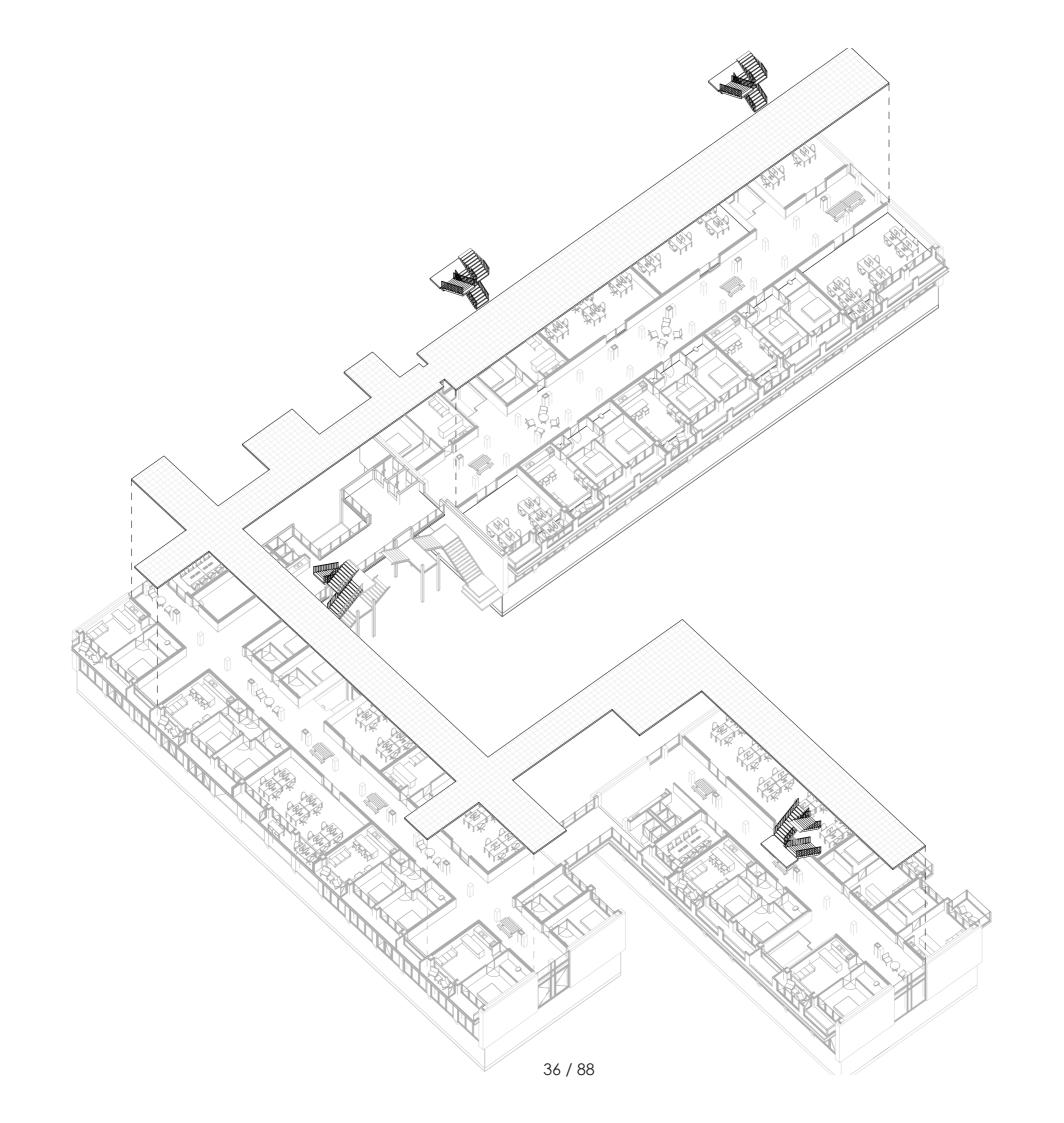
STRUCTURE



ACCESSIBILITY







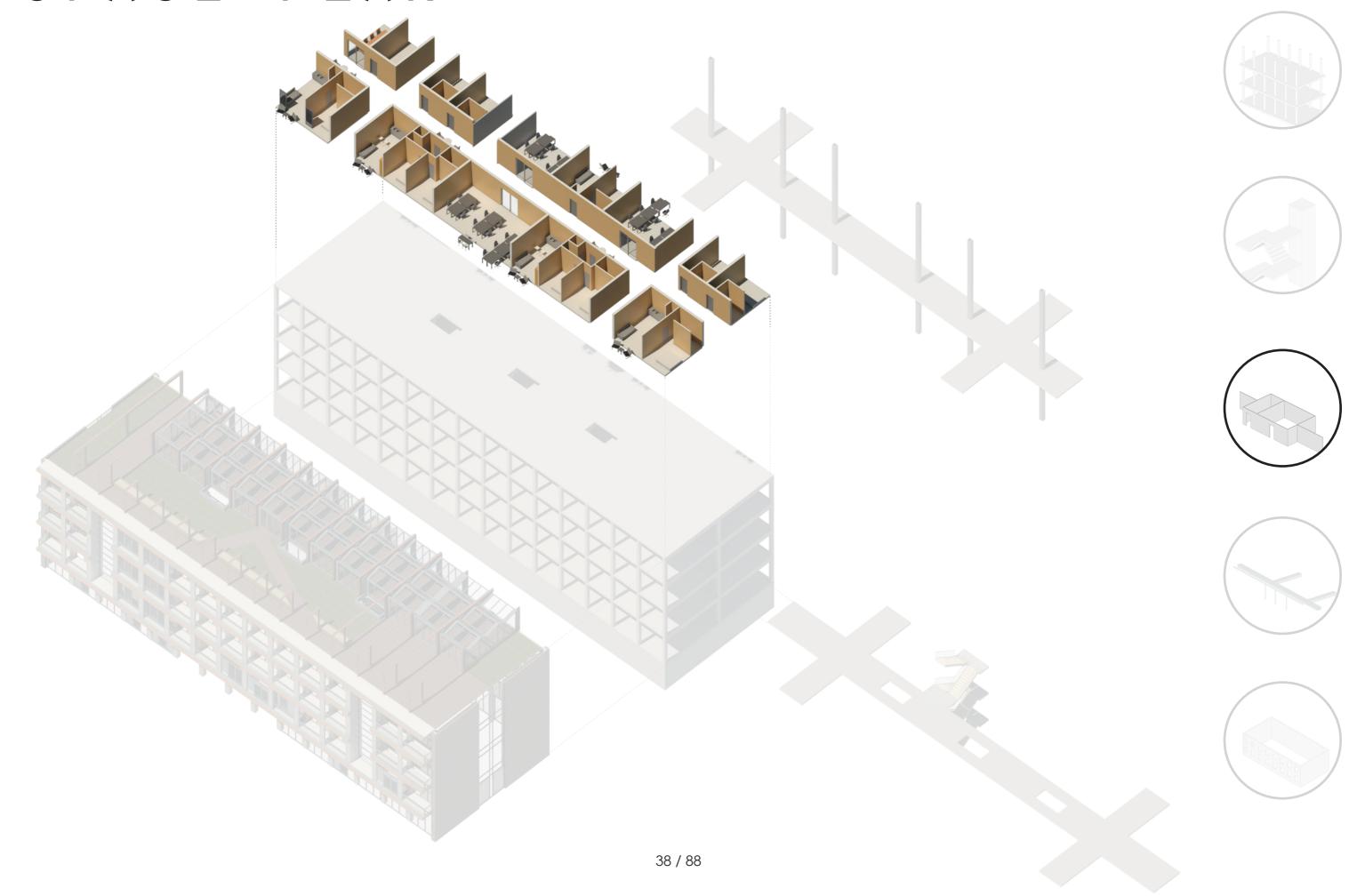


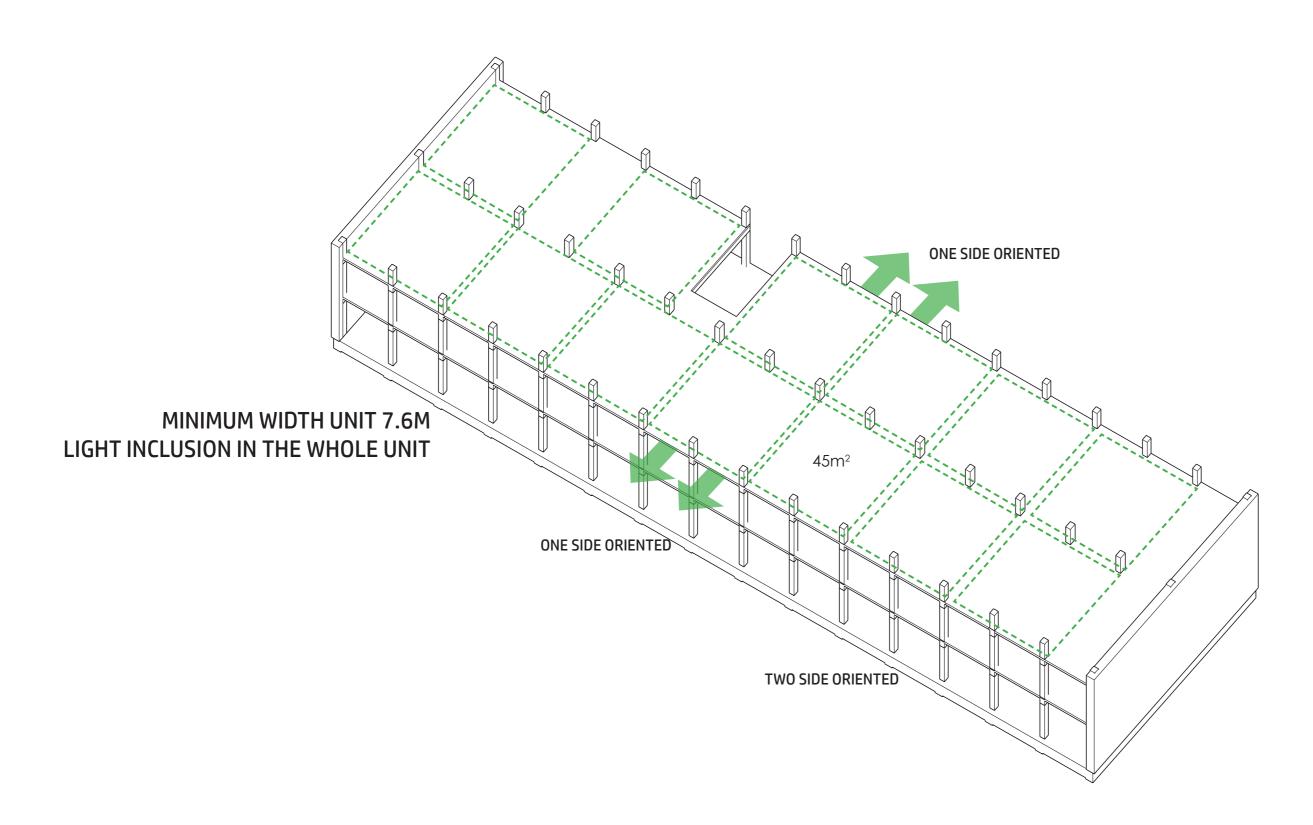


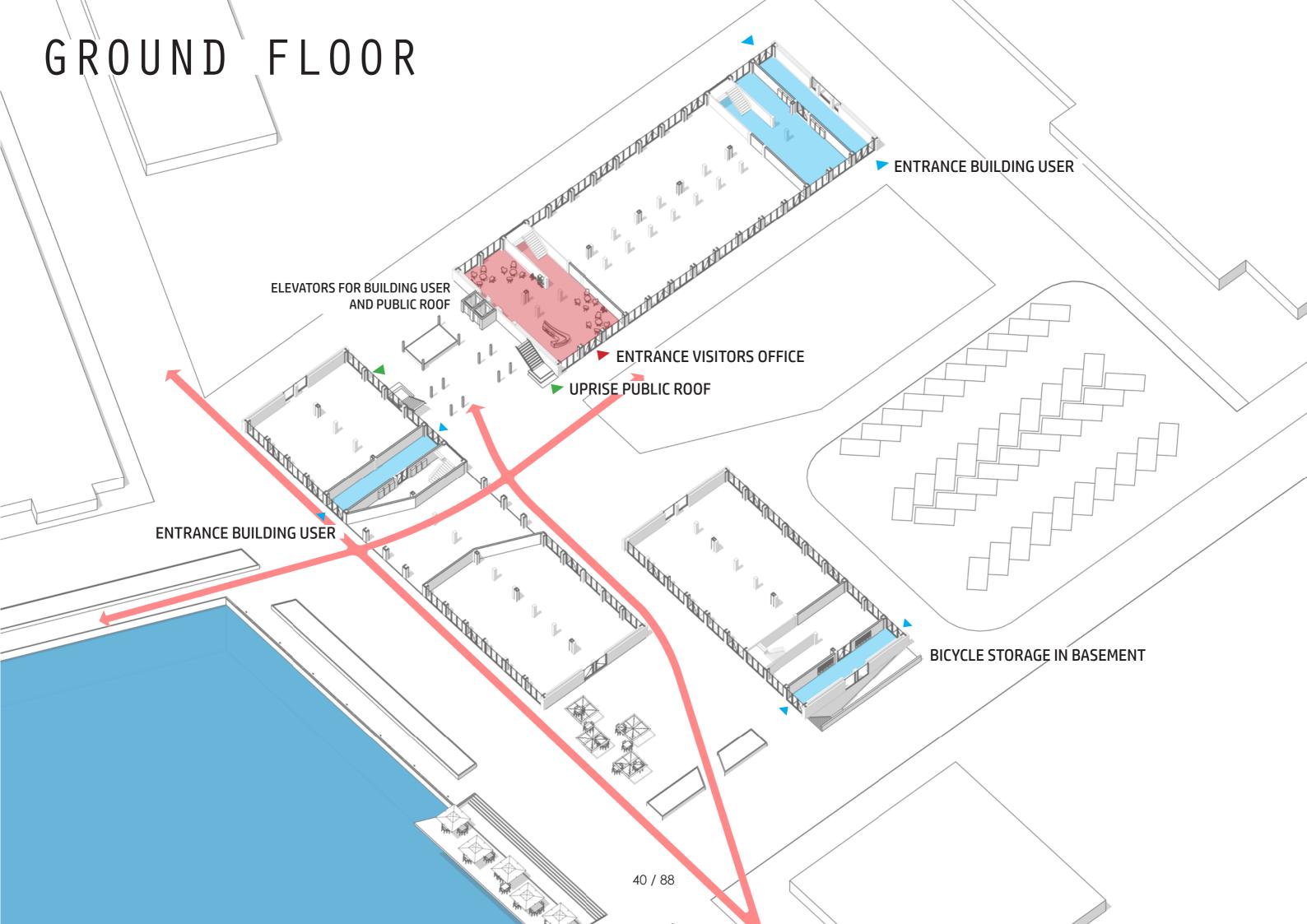


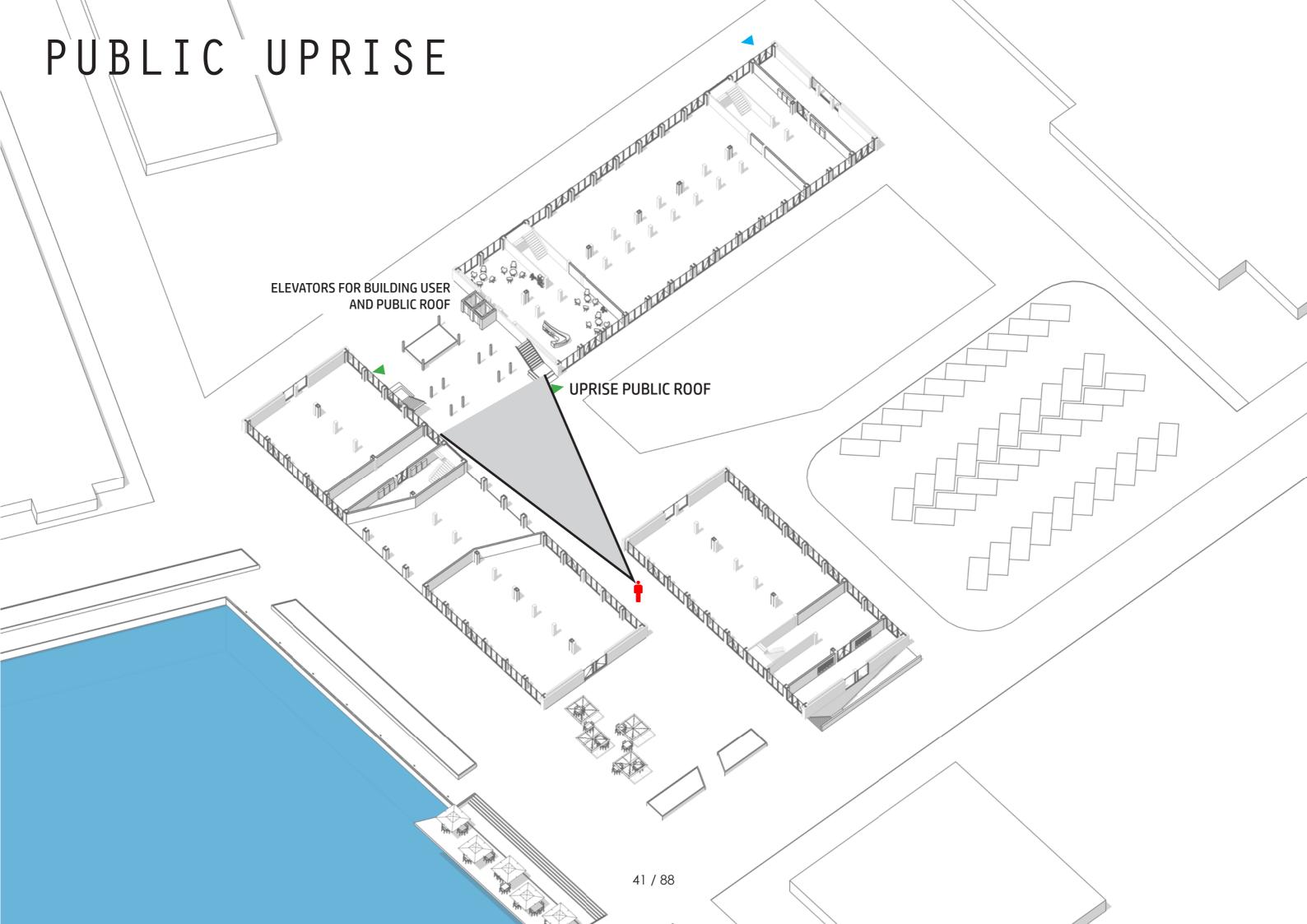


SPACE PLAN











FIRST FLOOR







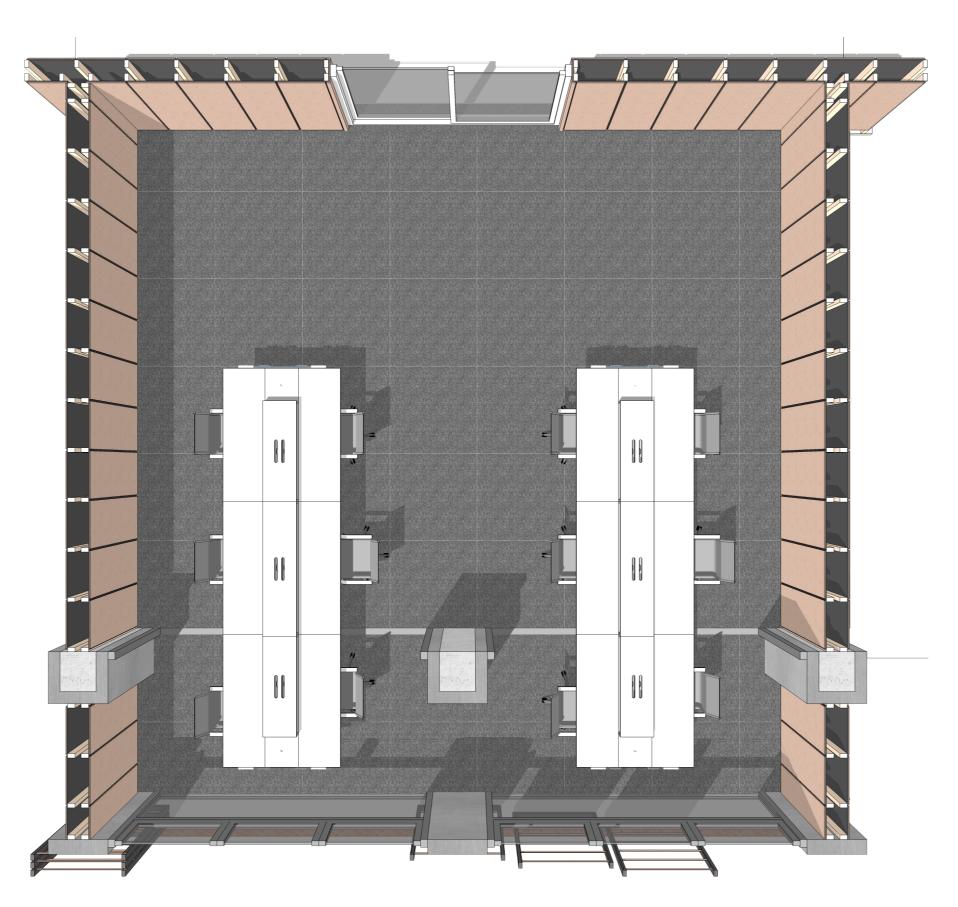
SINGLE/ COUPLE APARTMENT



FAMILY APARTMENT



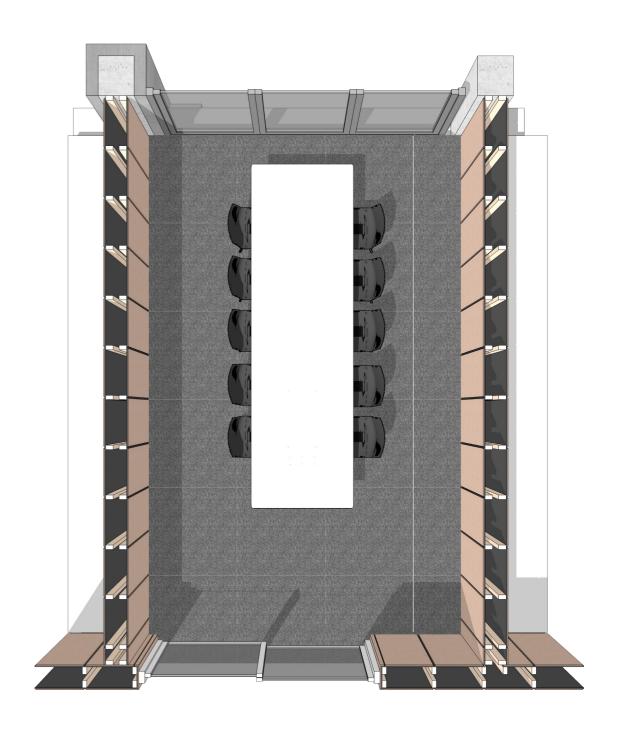
WORKSPACES



SUPPORTING SPACES



SHORT STAY UNIT

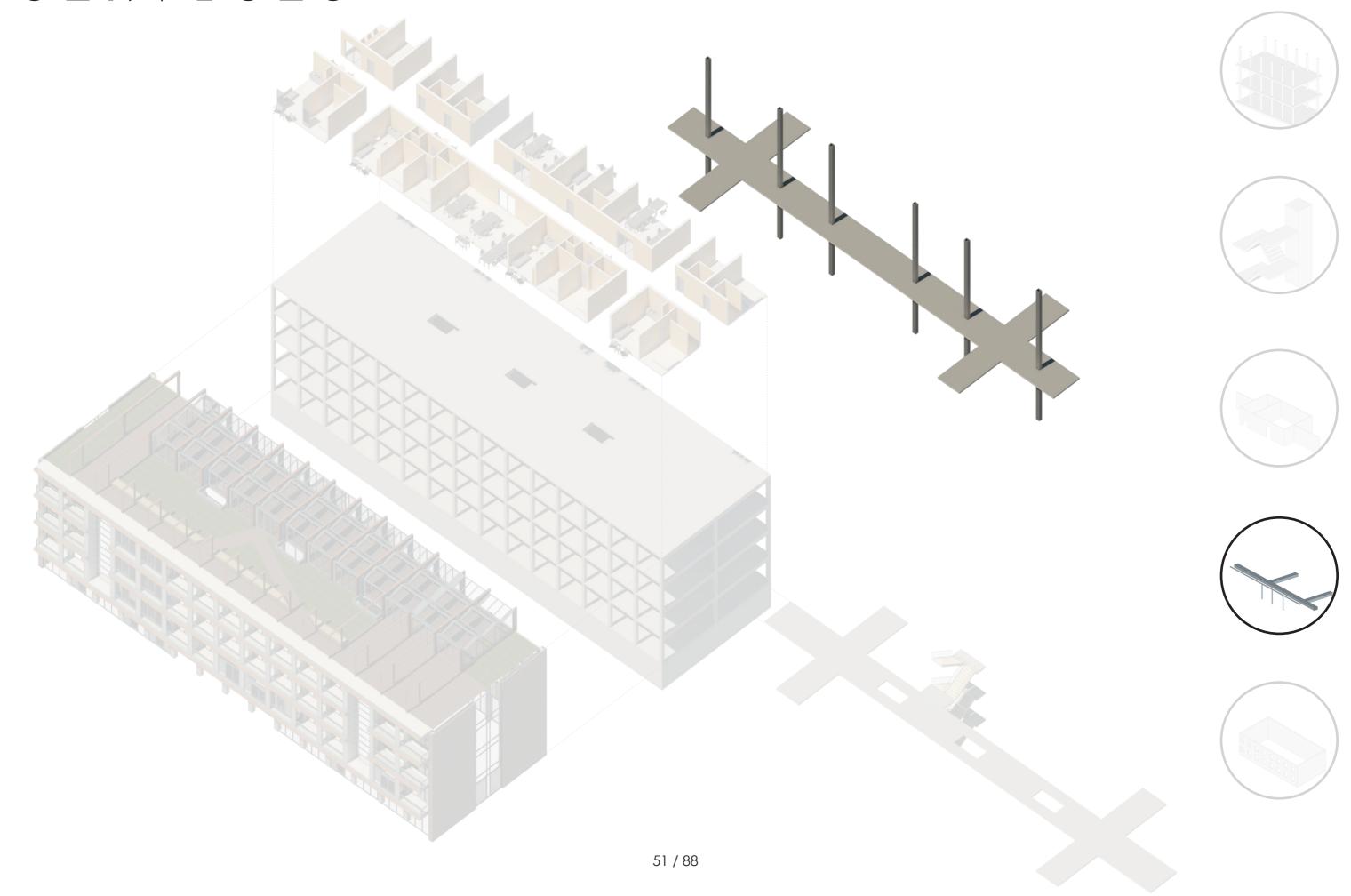


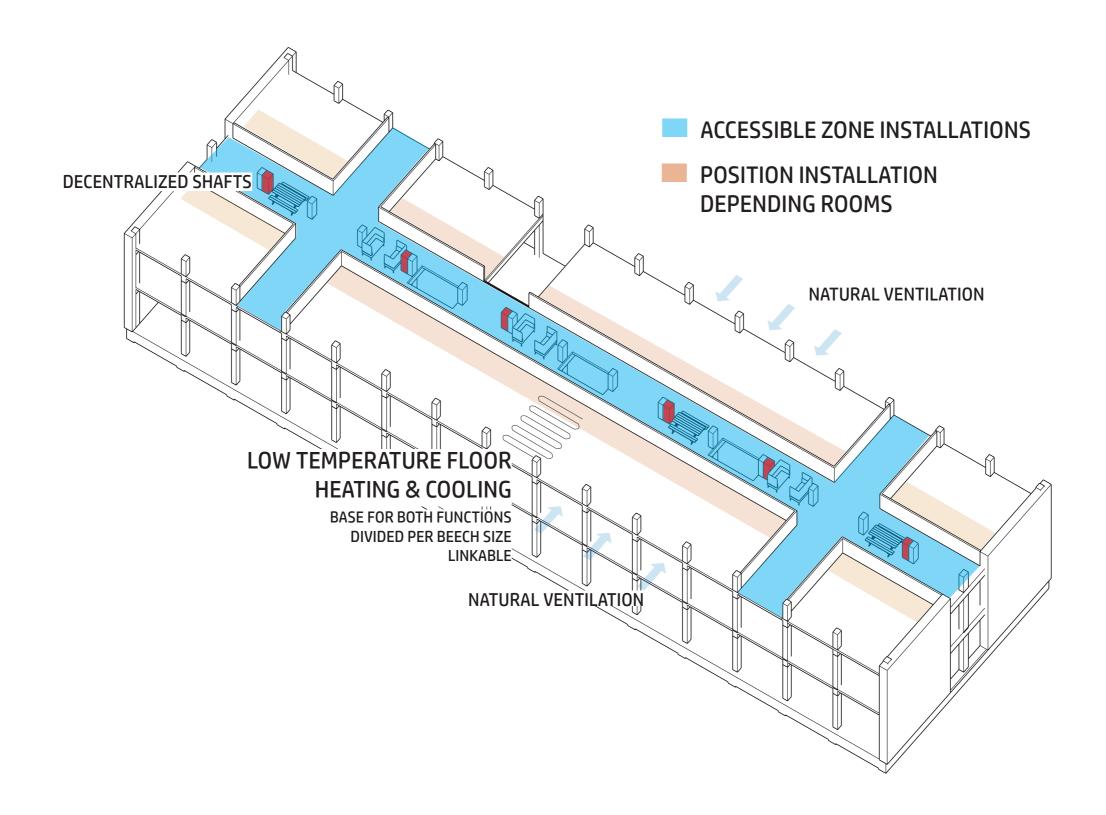
CONFERENCE ROOM

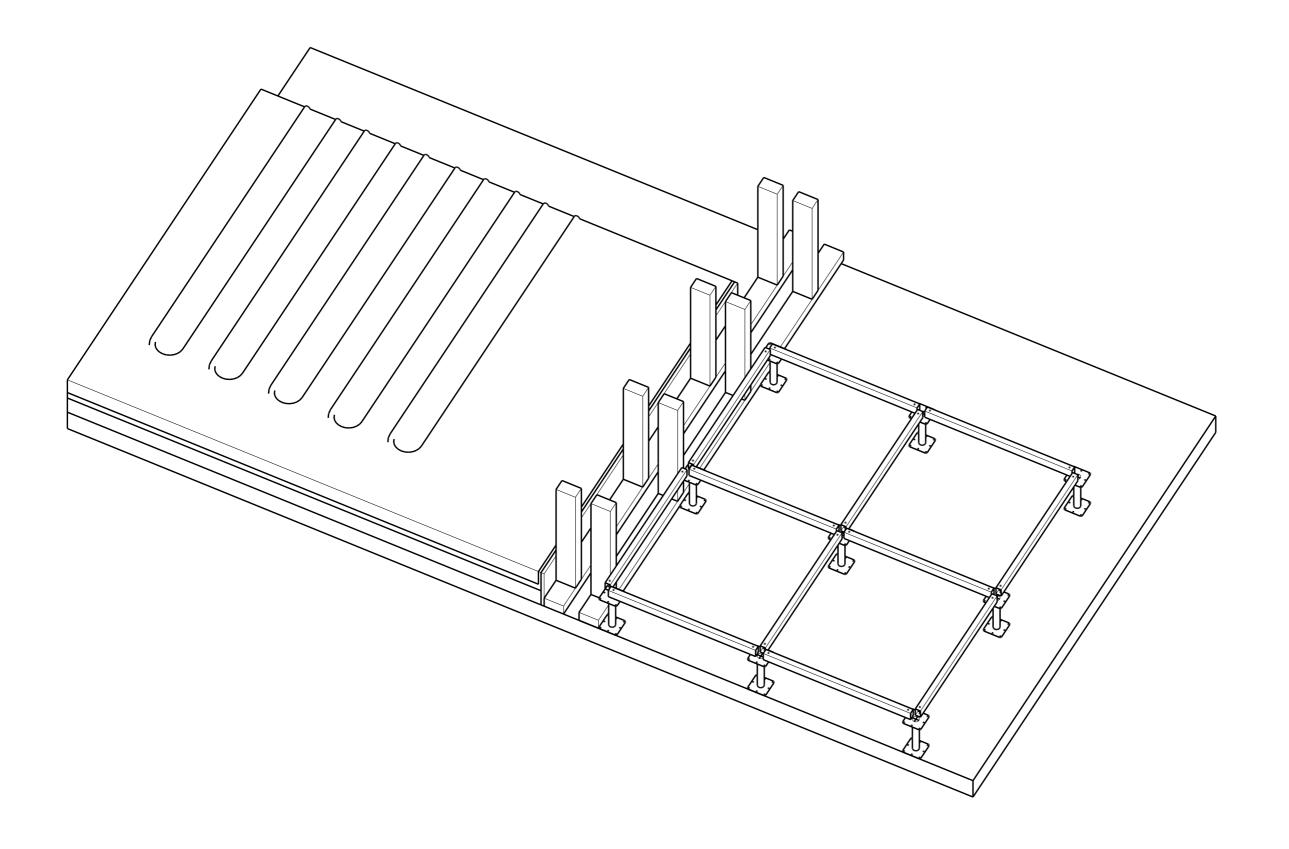


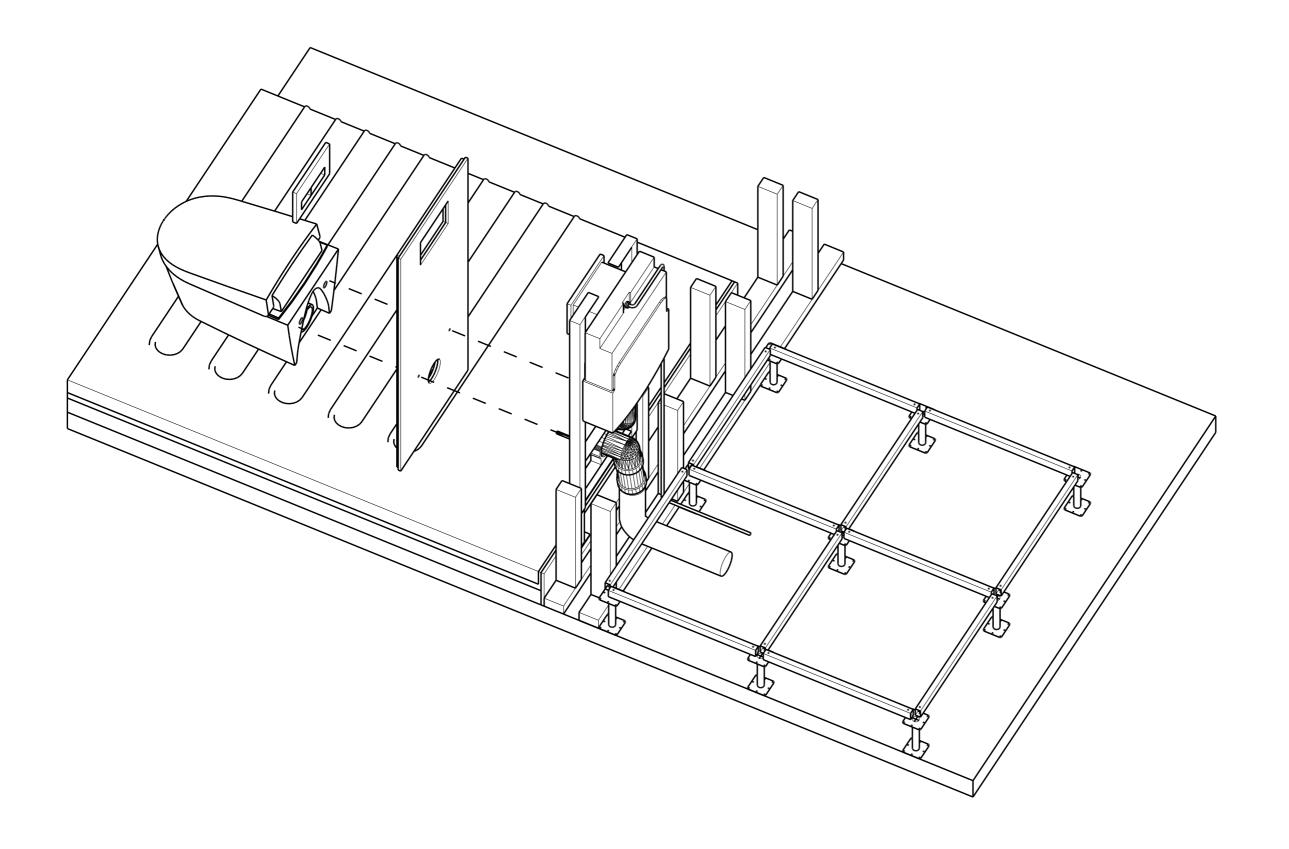


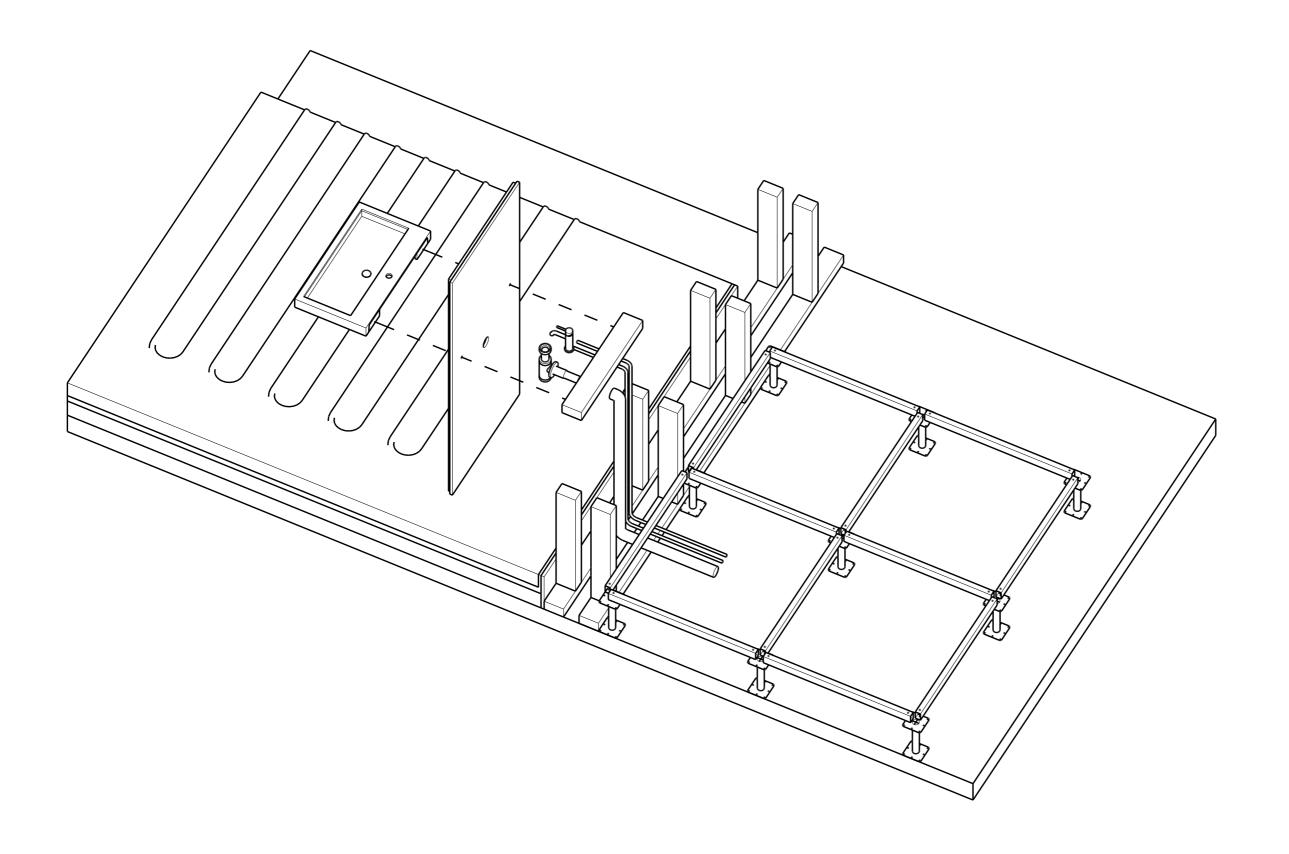
SERVICES

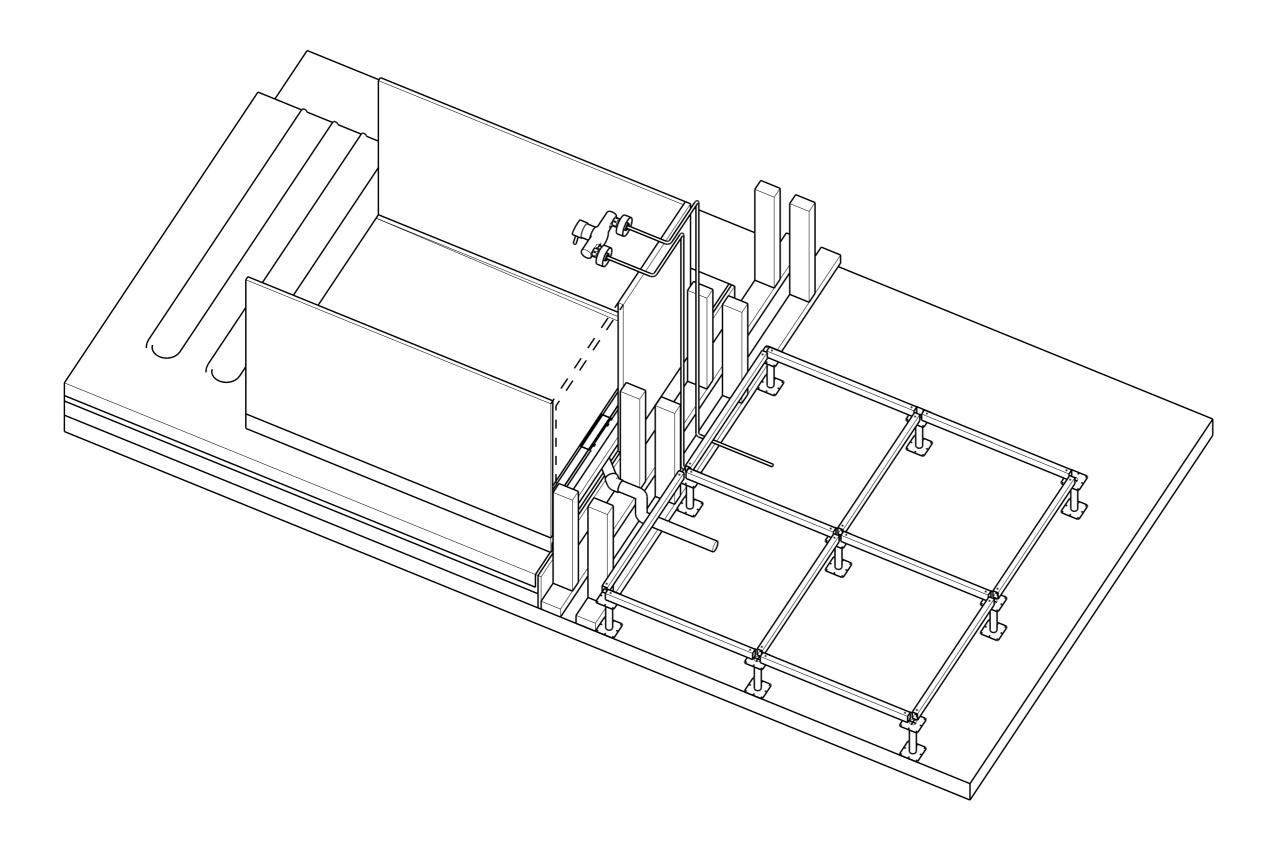


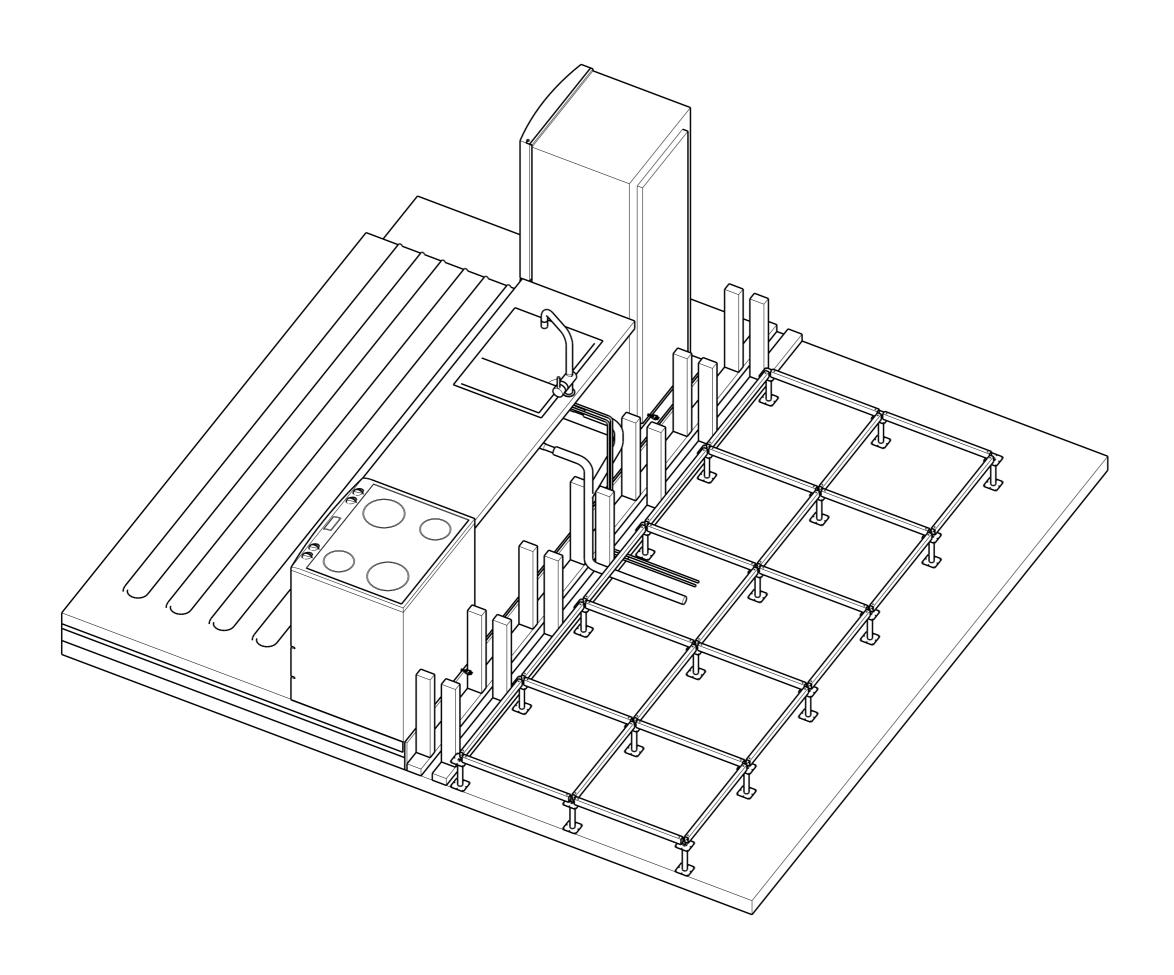


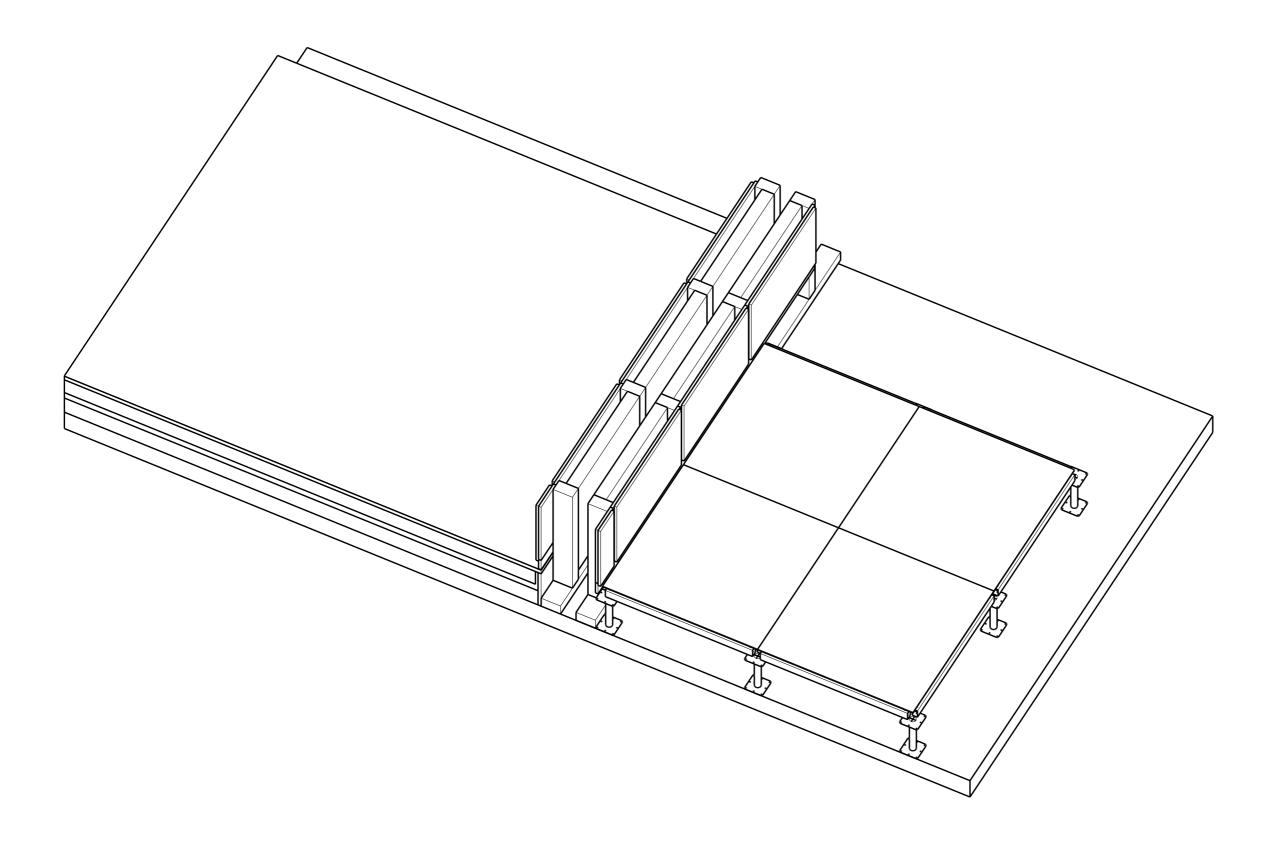


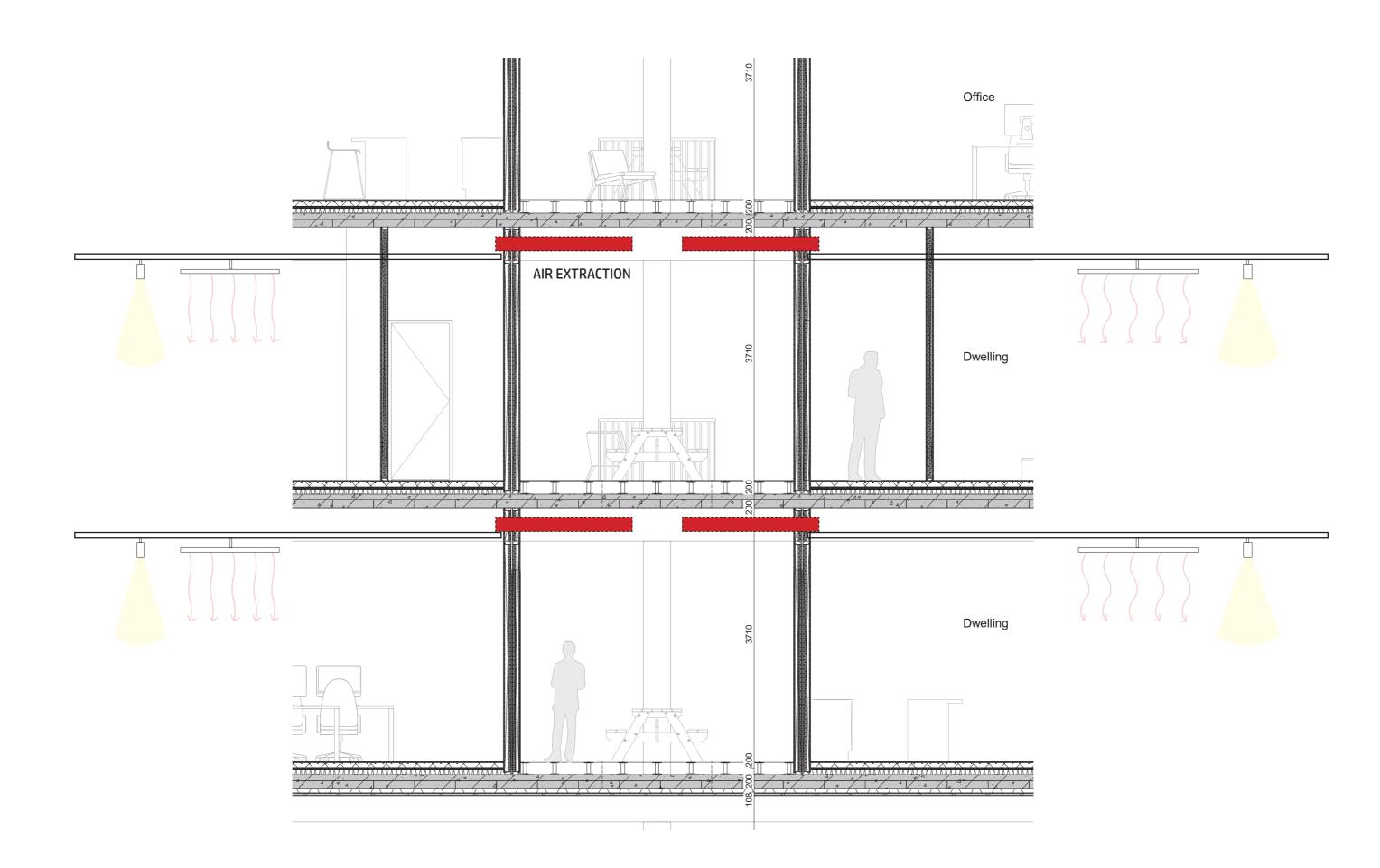


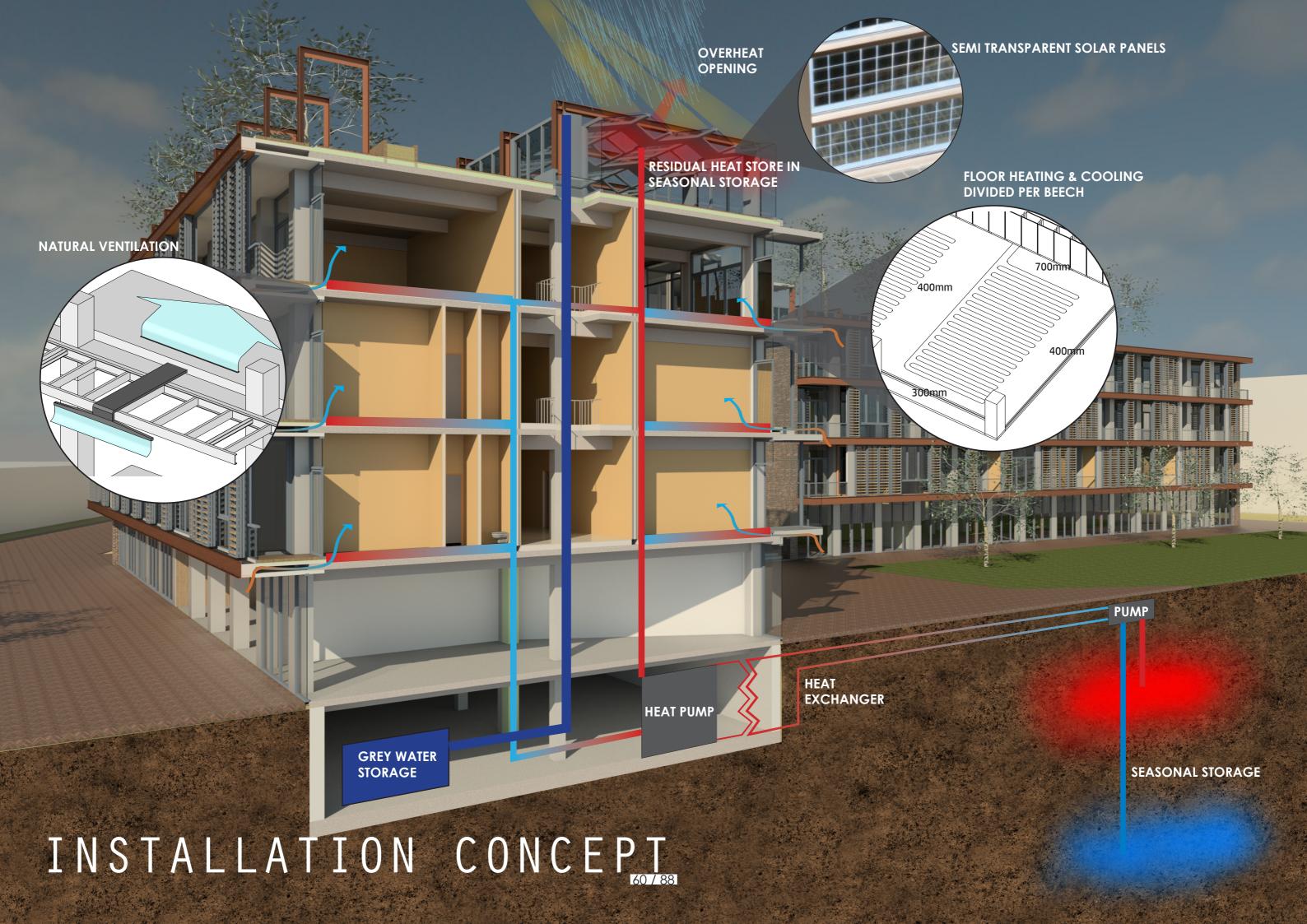






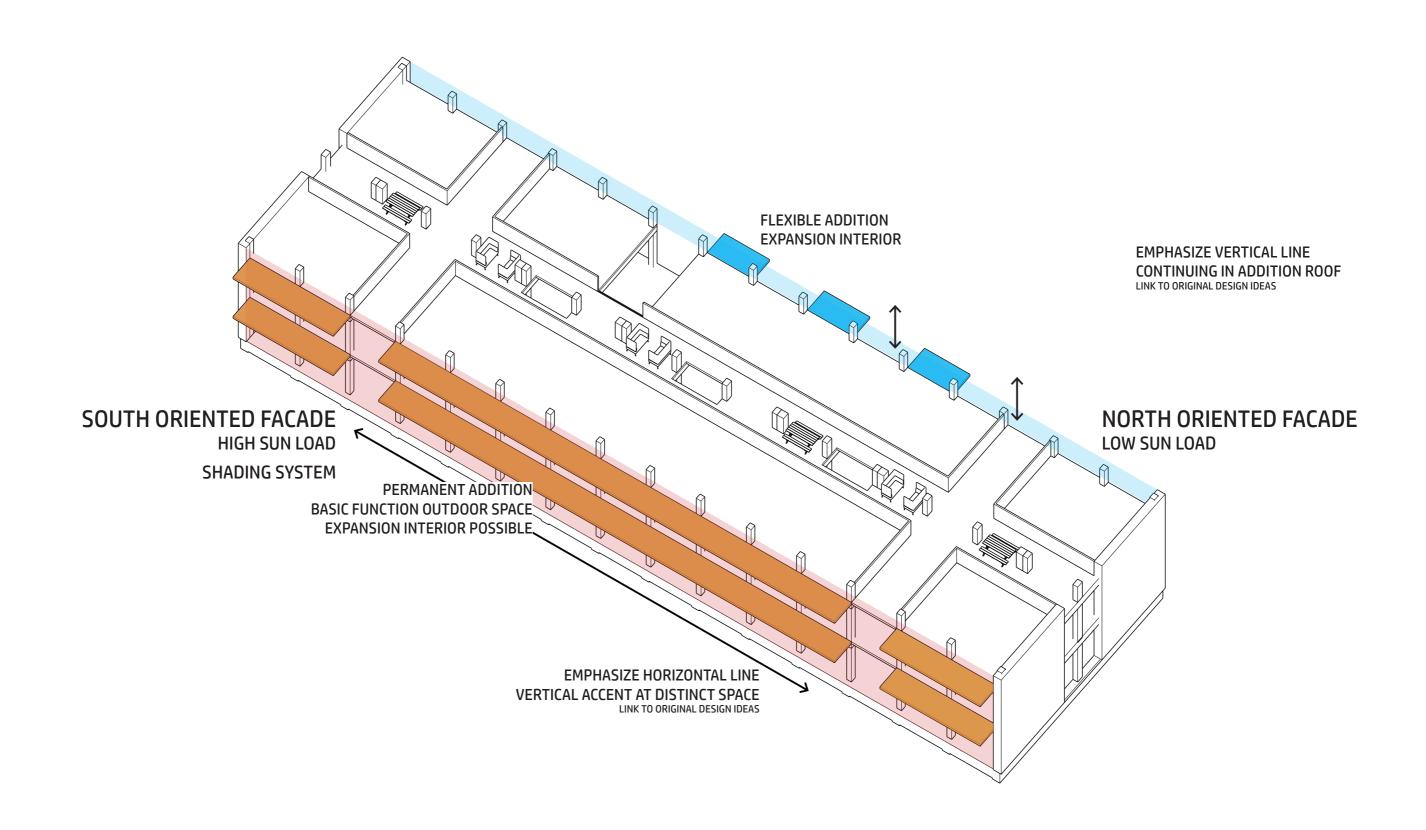






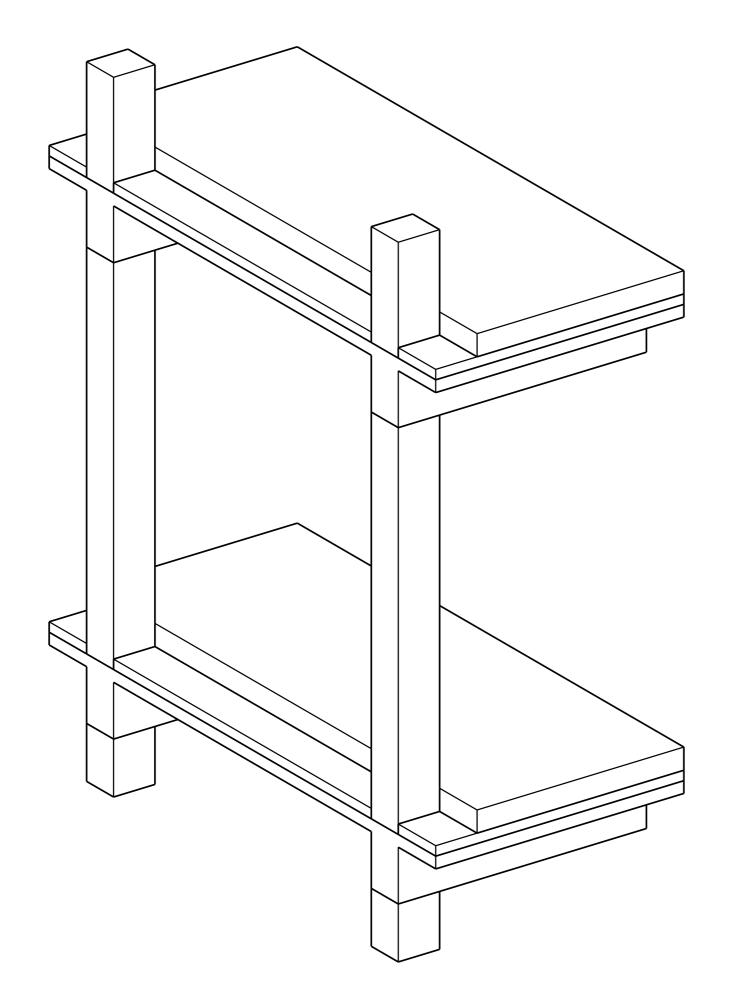
FACADE



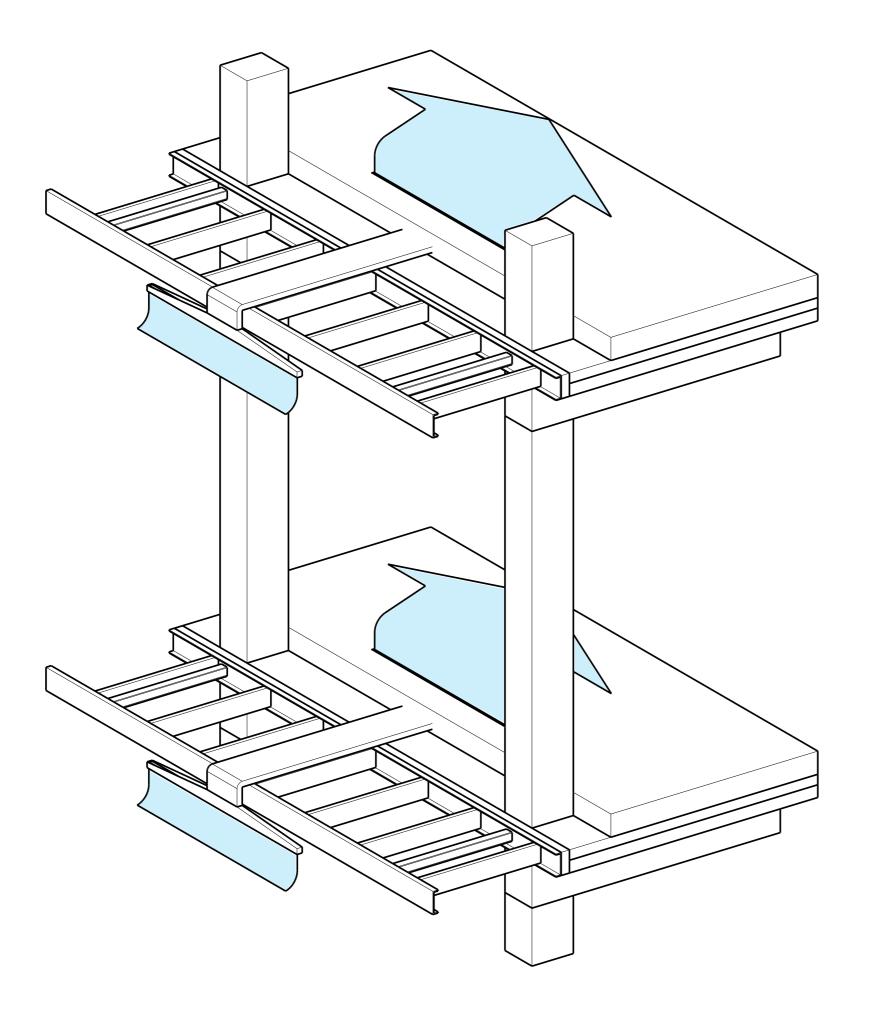


SOUTH FACADE

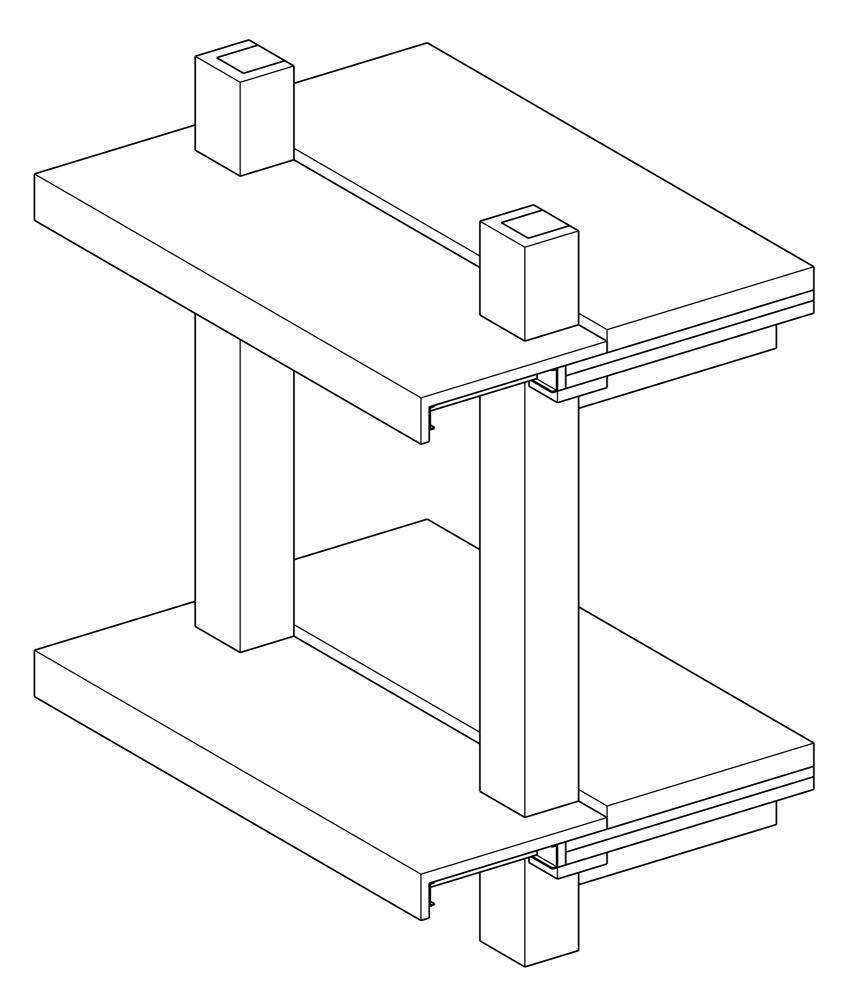




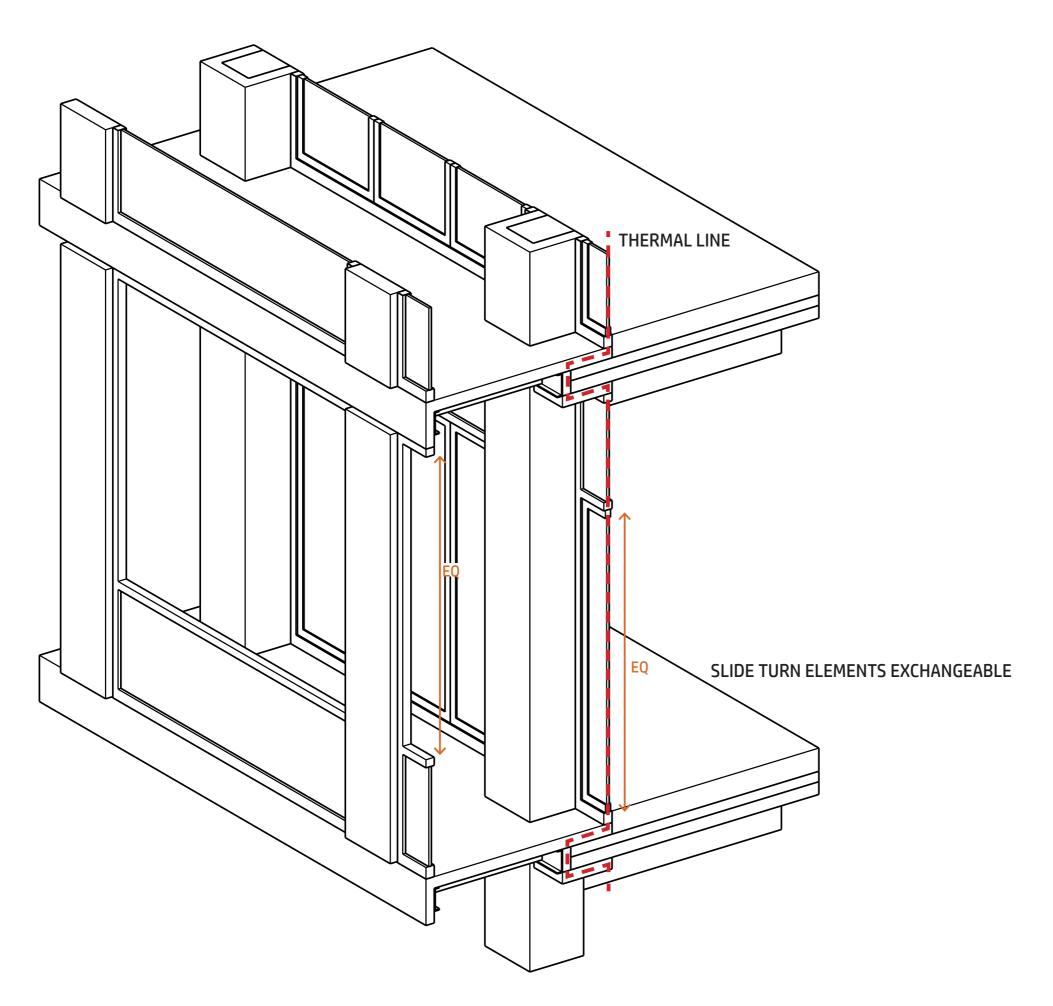
STARTING POINT



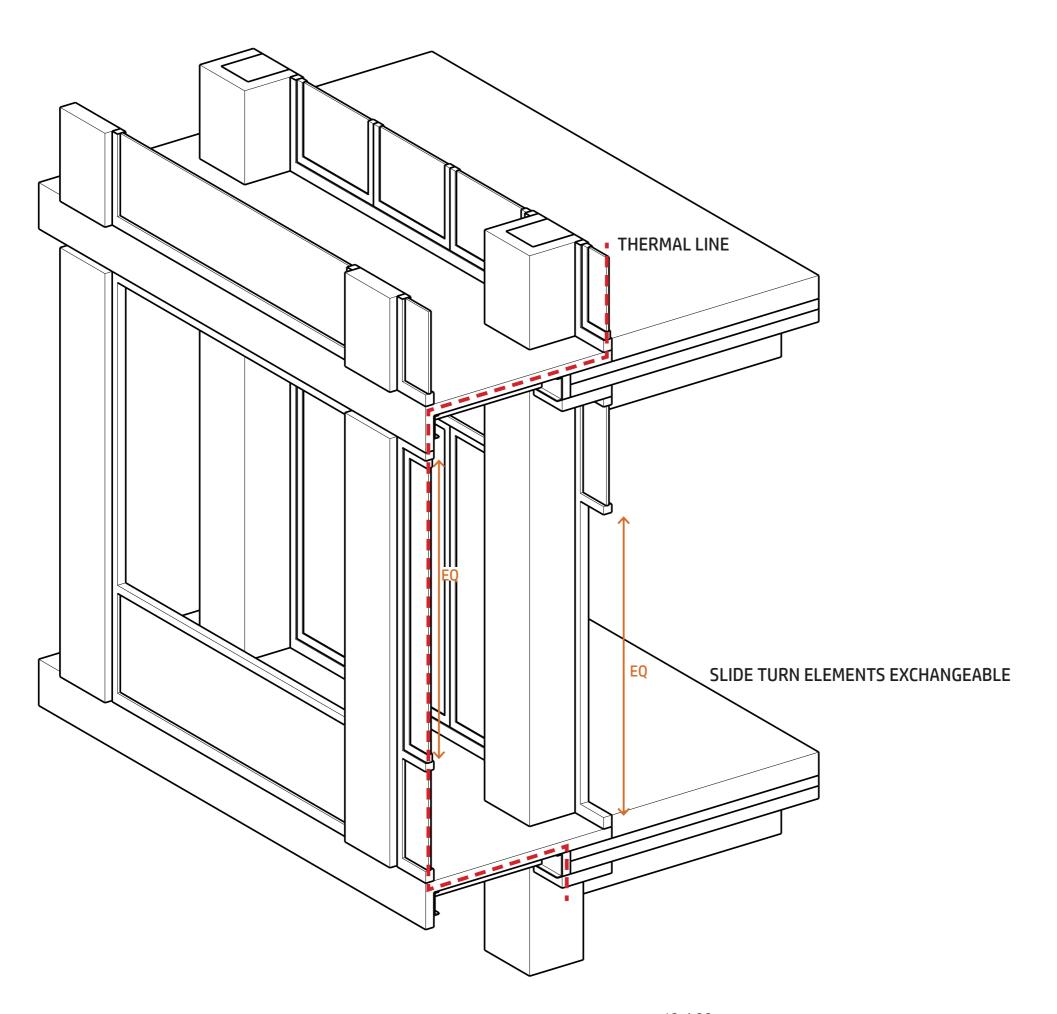
STRUCTURE & VENTILATION



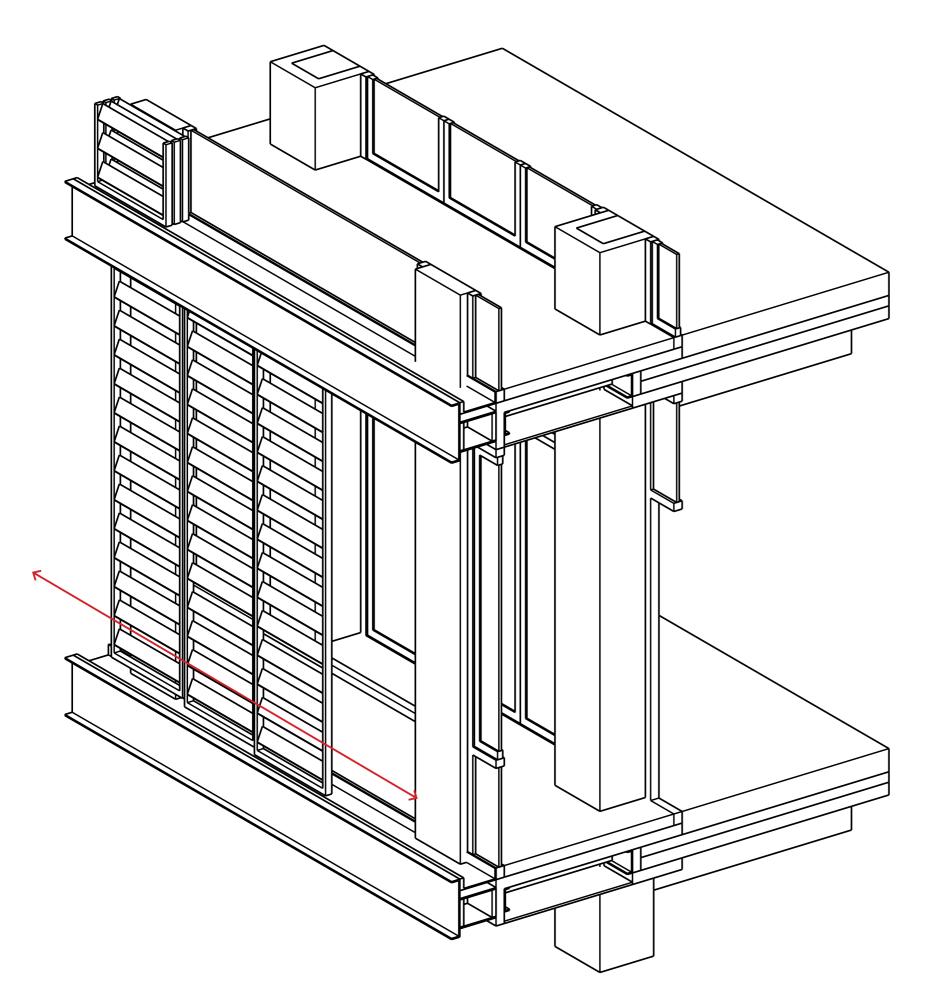
INSULATION



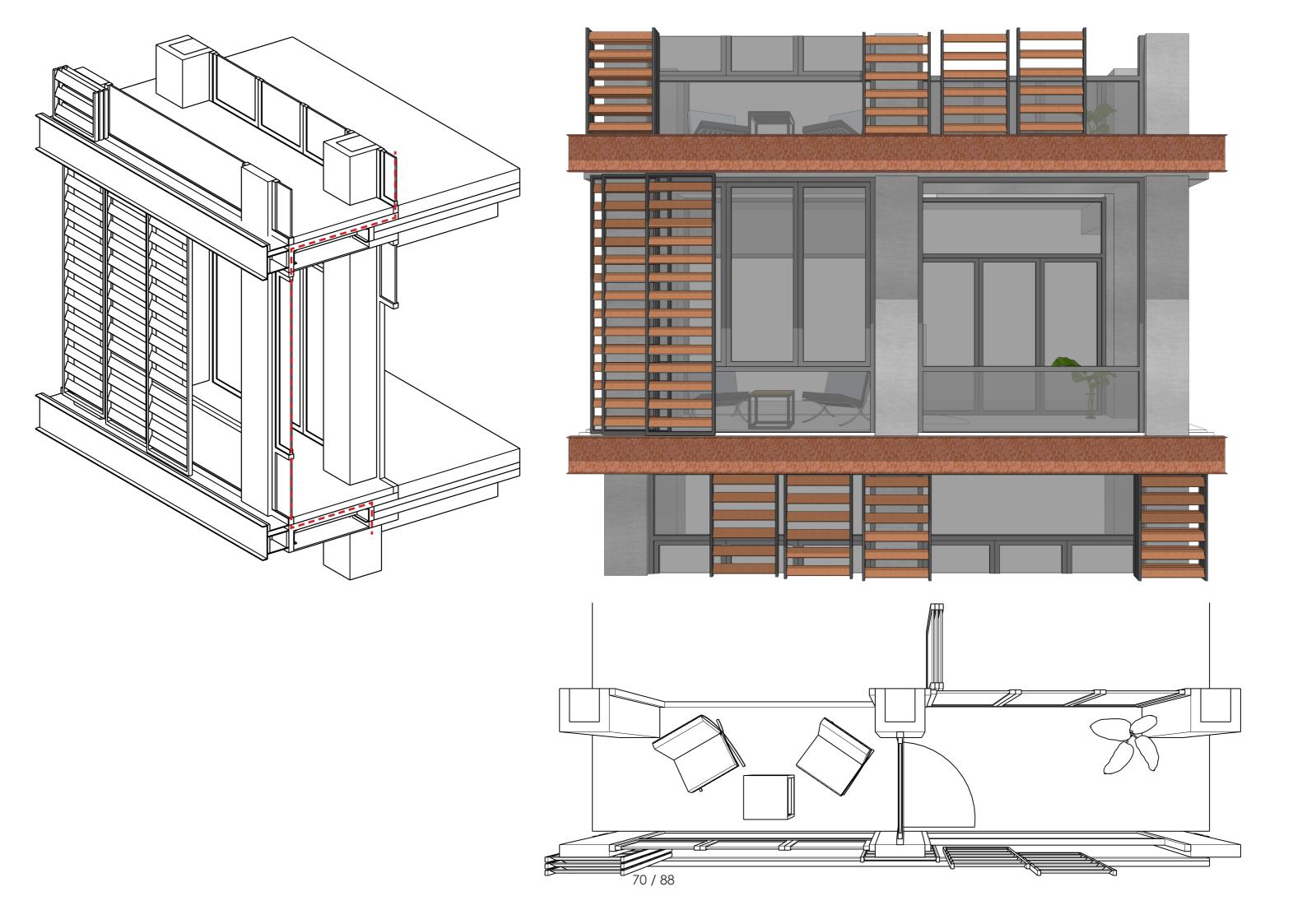
WINDOW FRAME

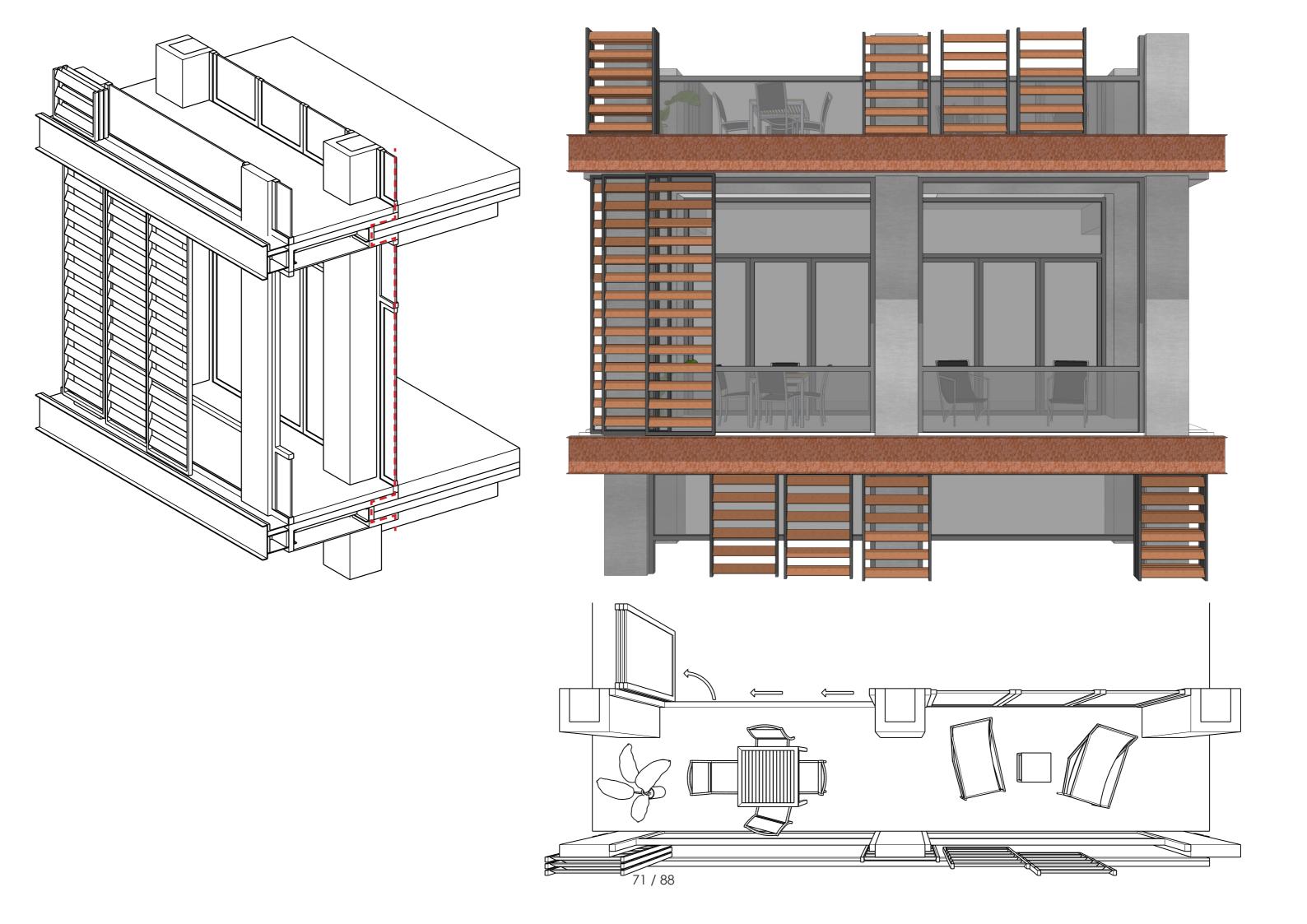


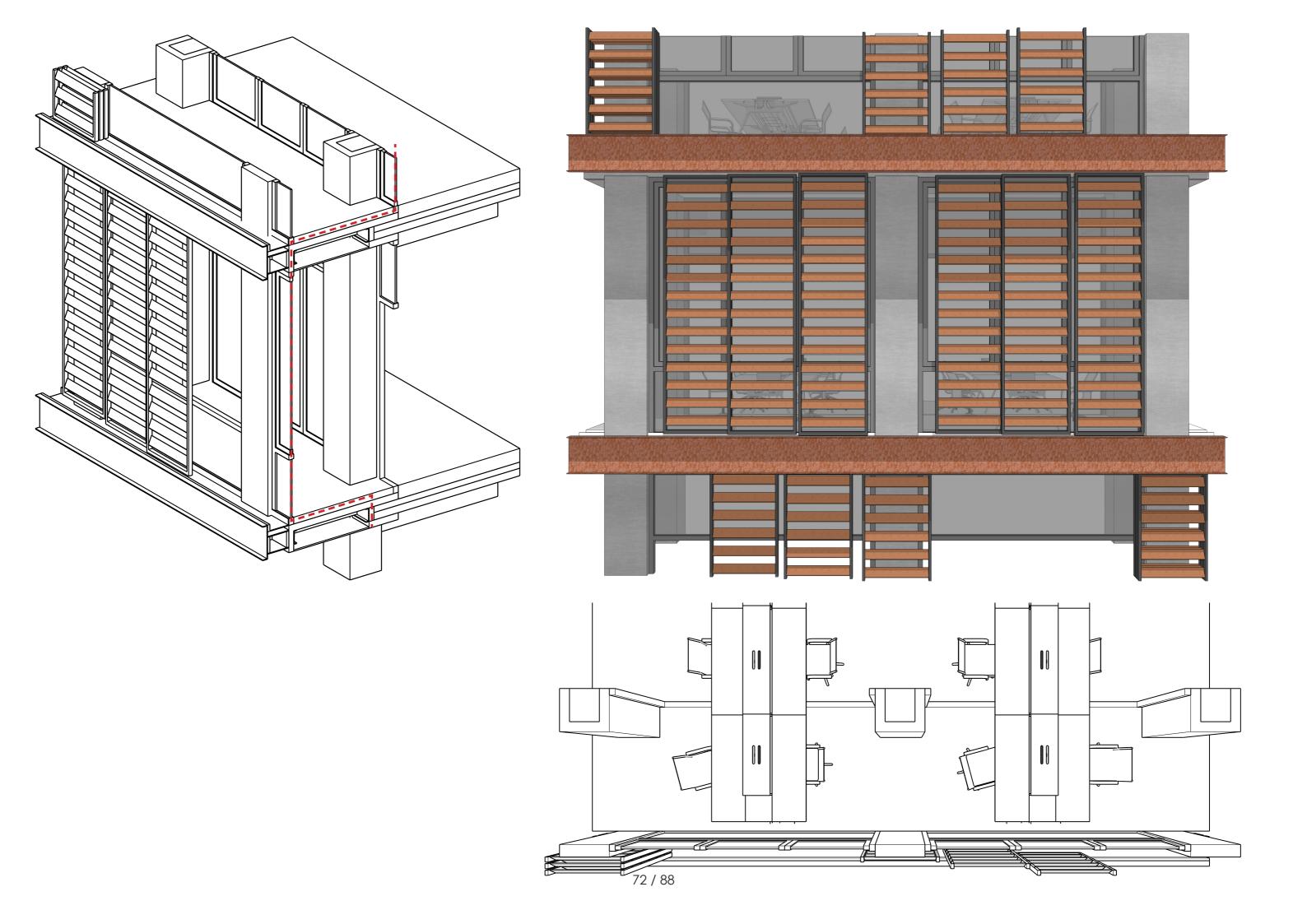
WINDOW FRAME

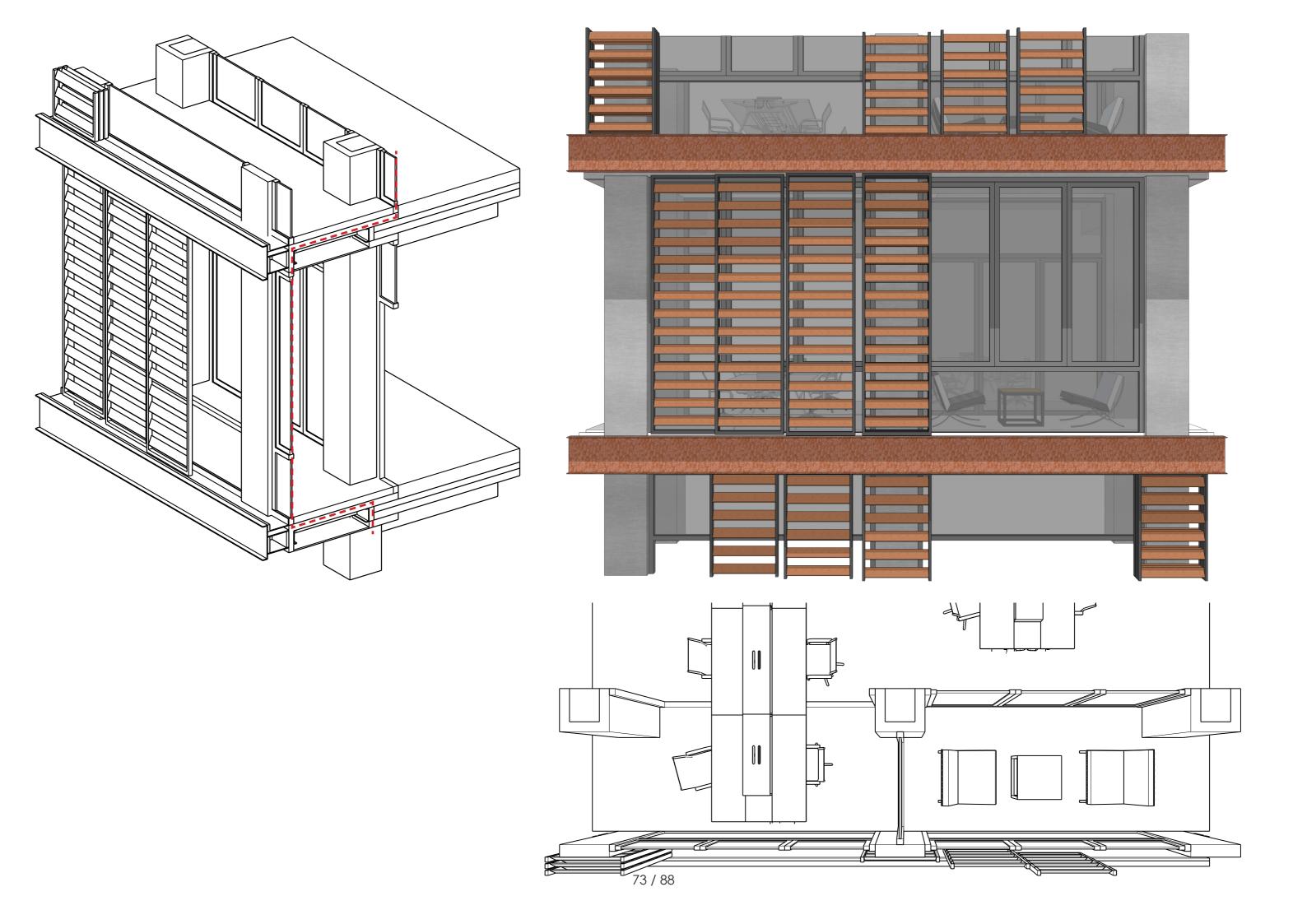


SHADING SYSTEM



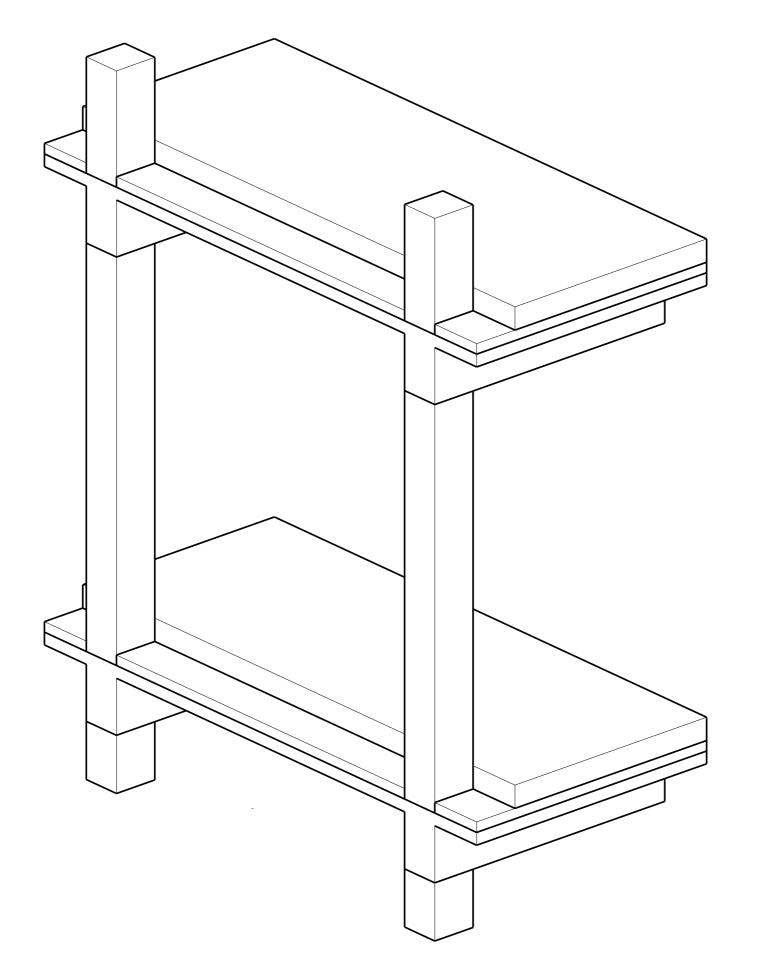




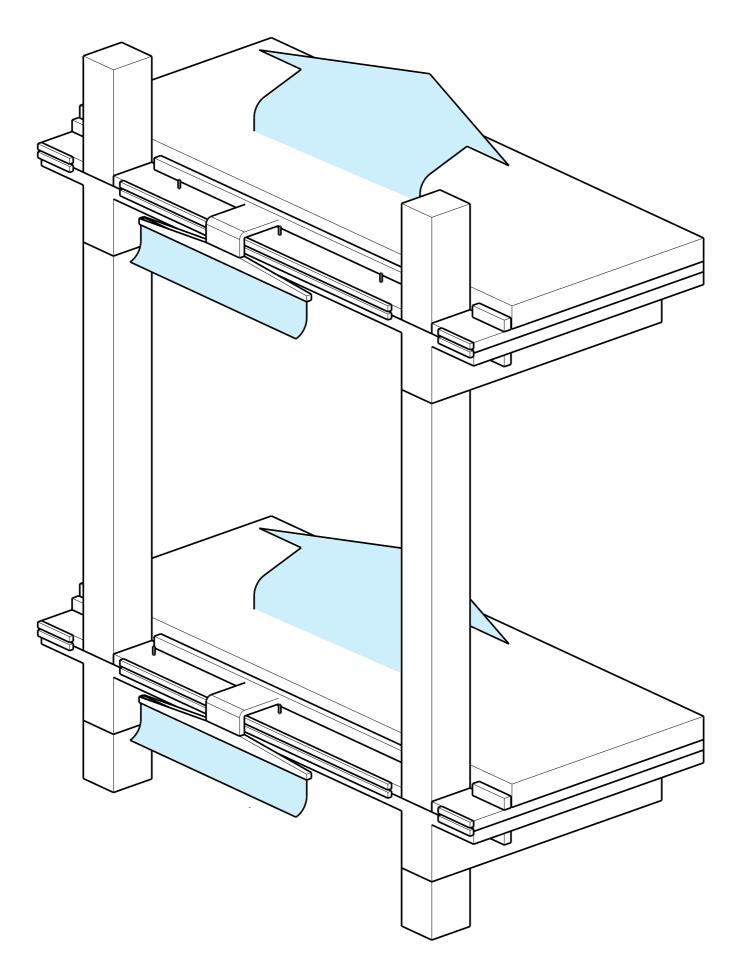


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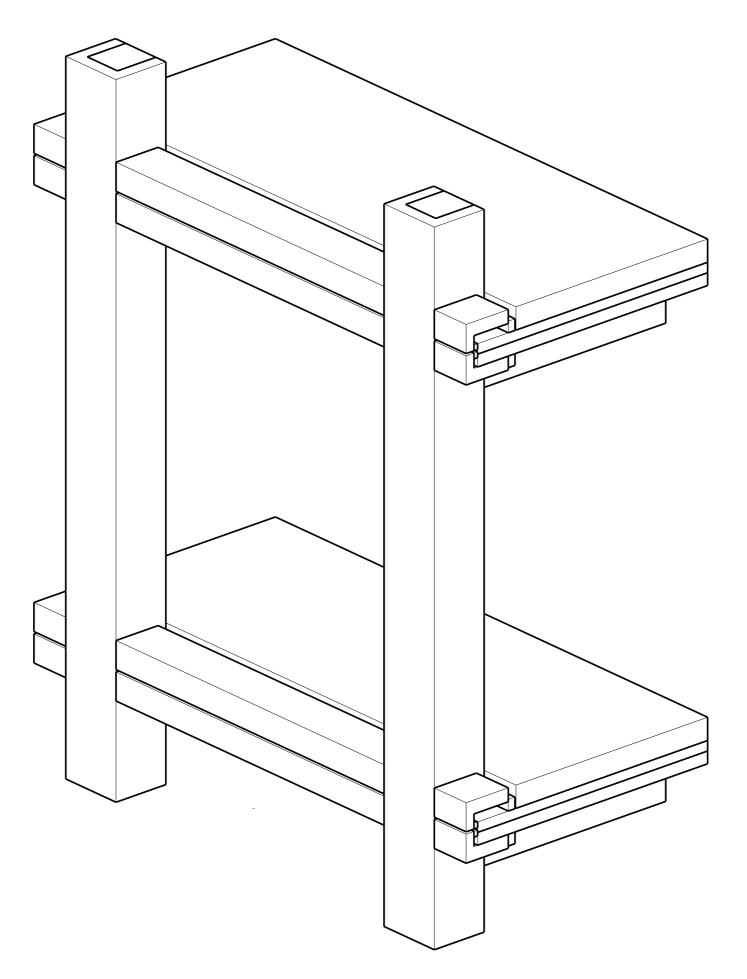




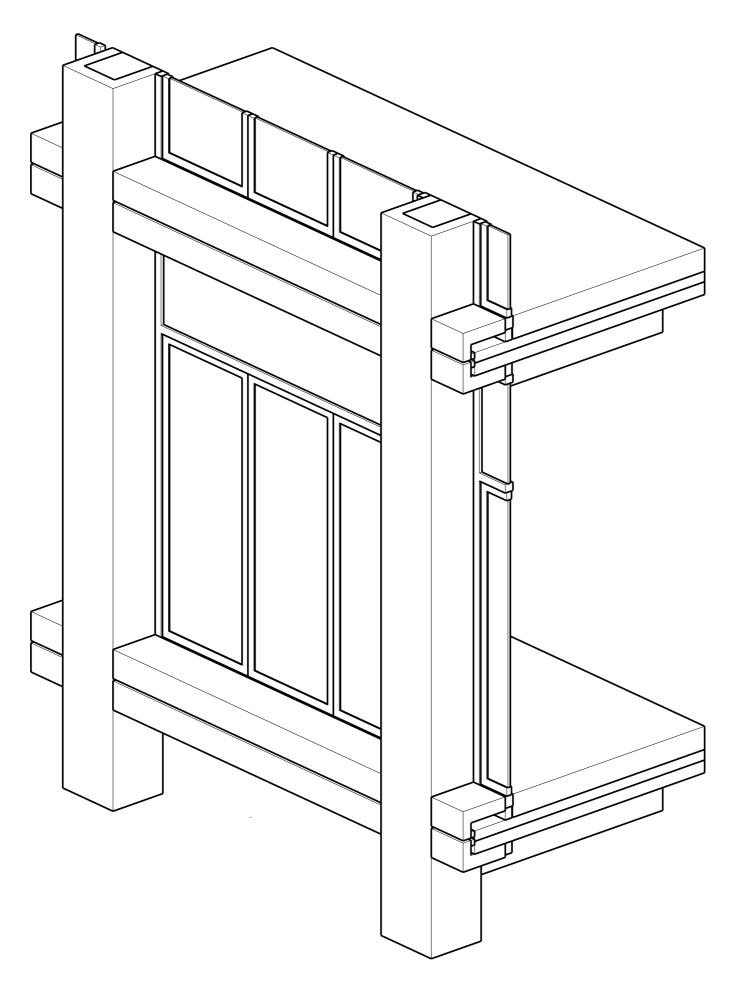
STARTING POINT



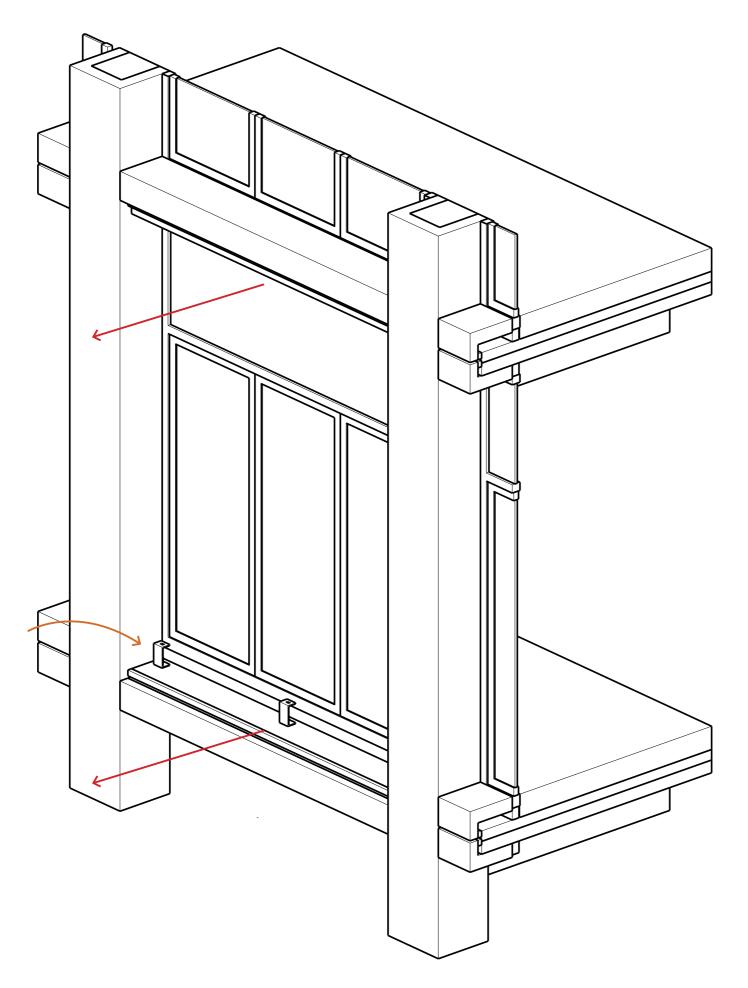
STRUCTURE & VENTILATION



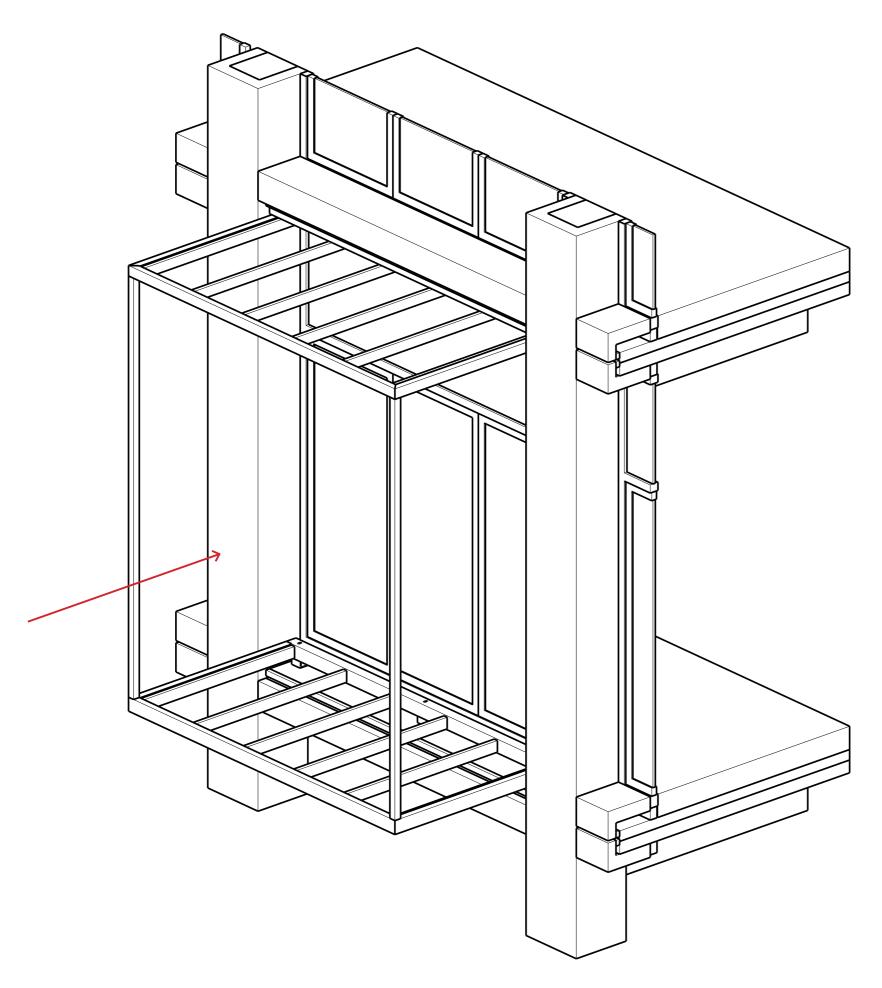
INSULATION



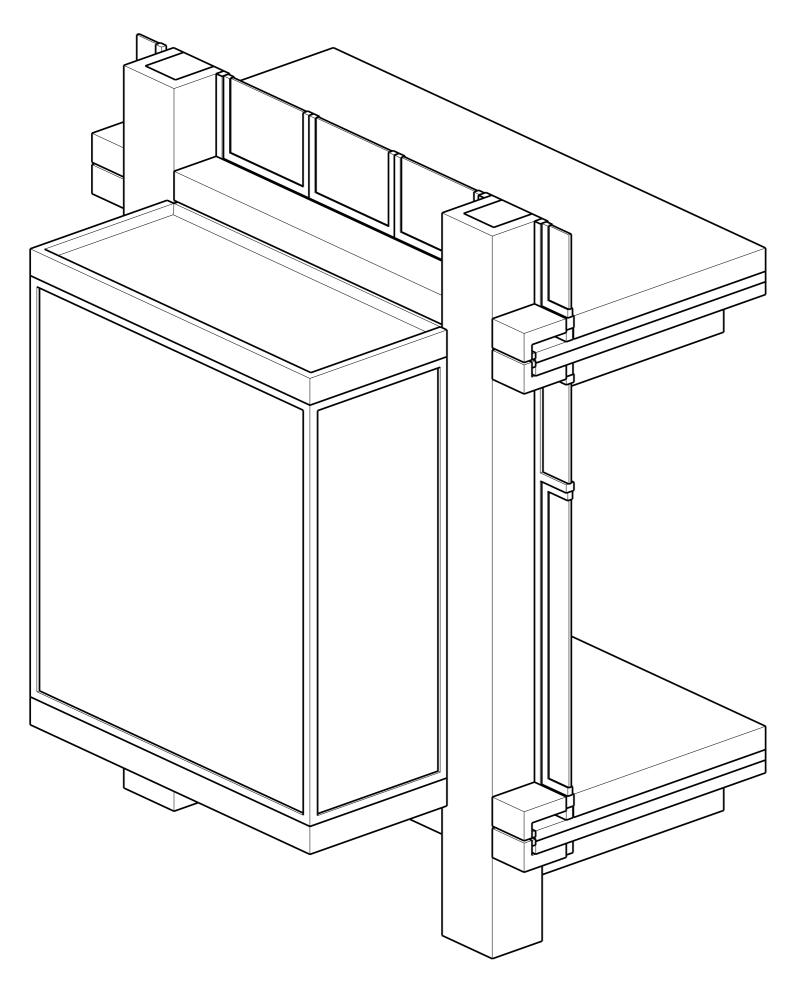
WINDOW FRAME



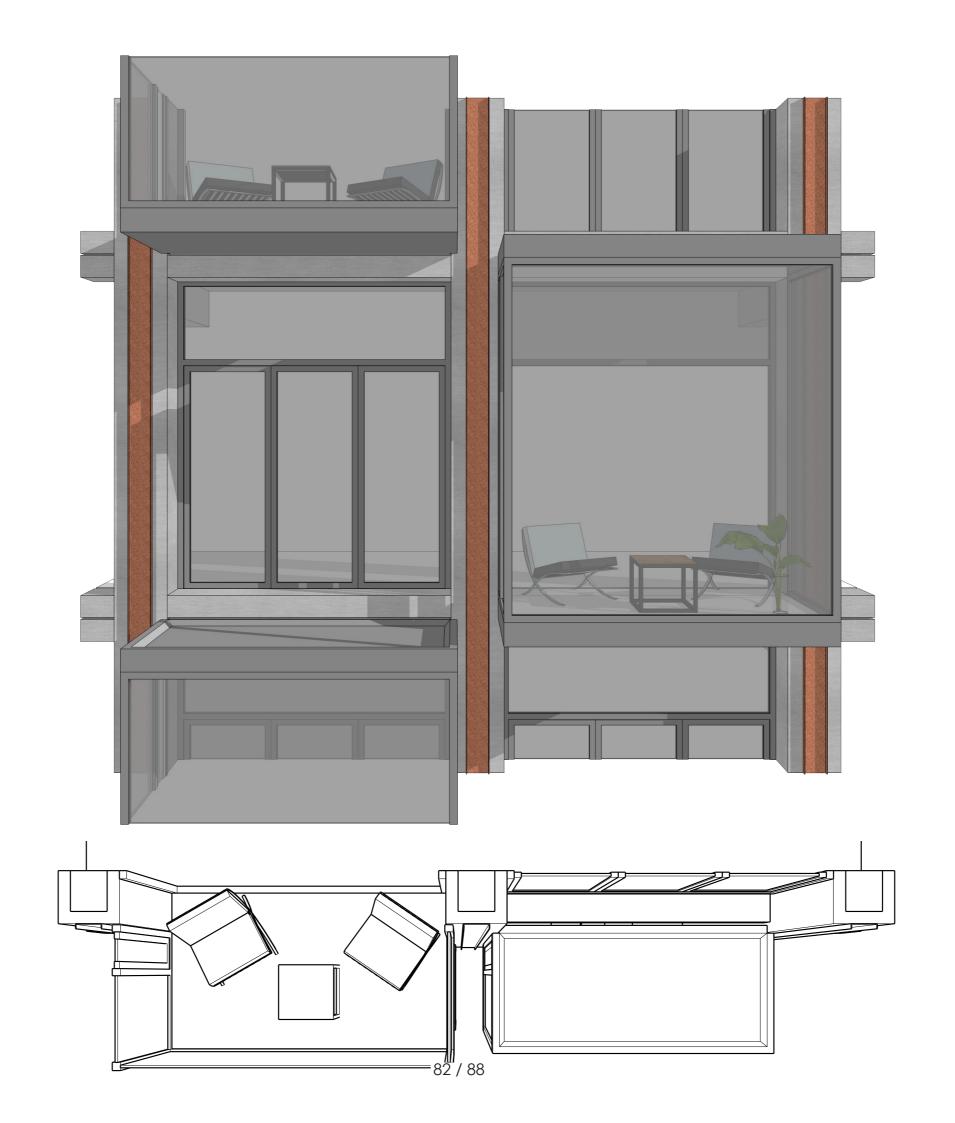
PREPARING ADDITION

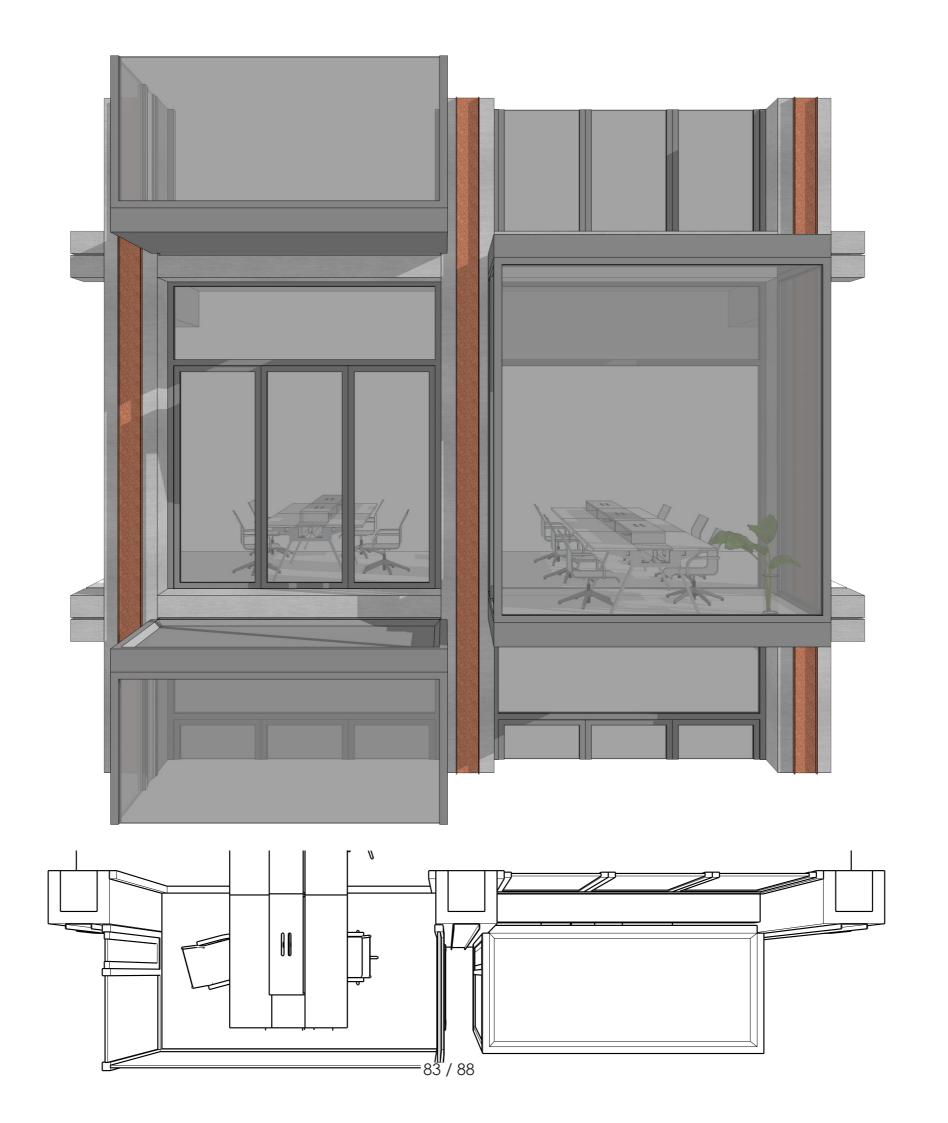


STRUCTURE ADDITION

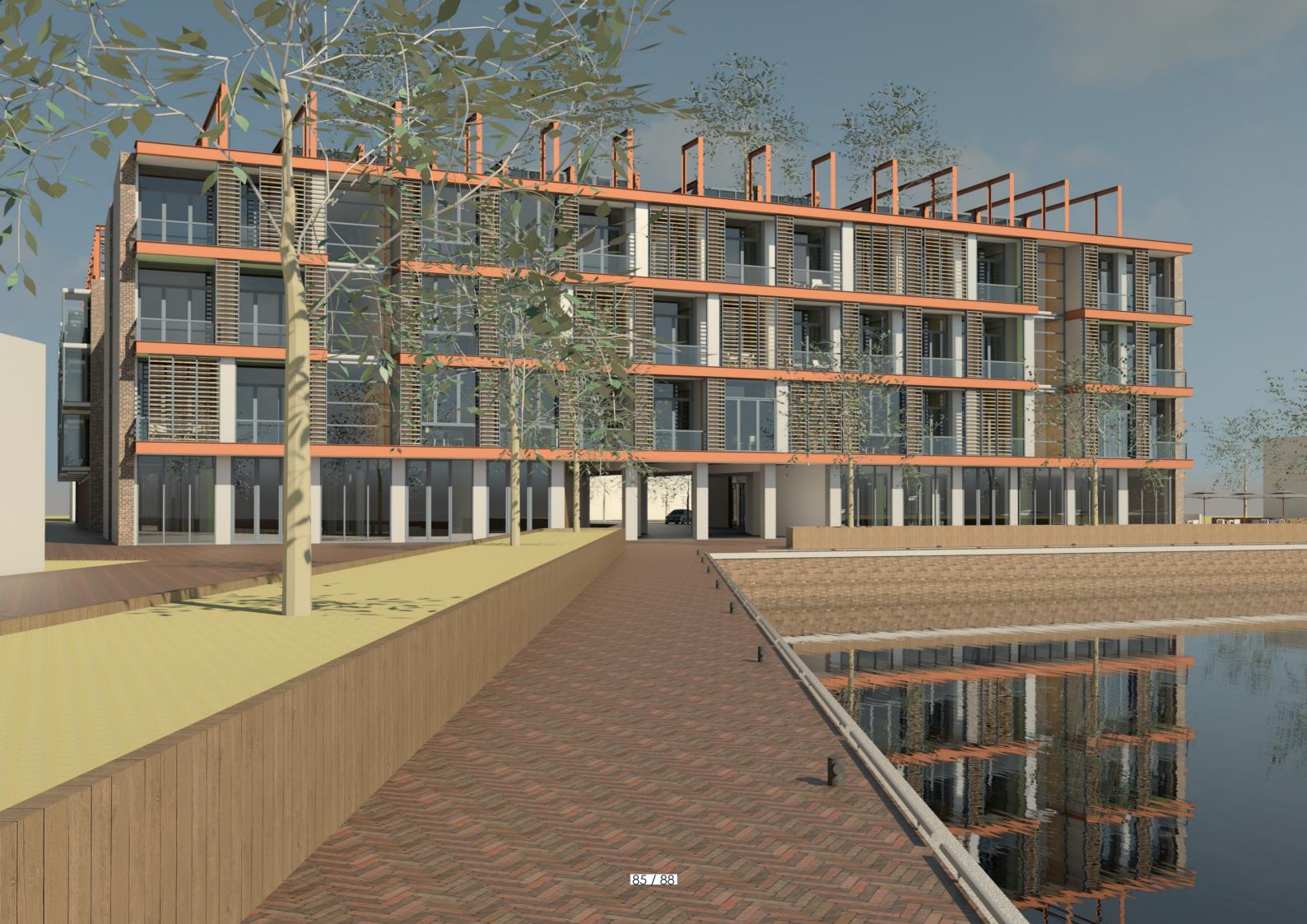


TOTAL ADDITION





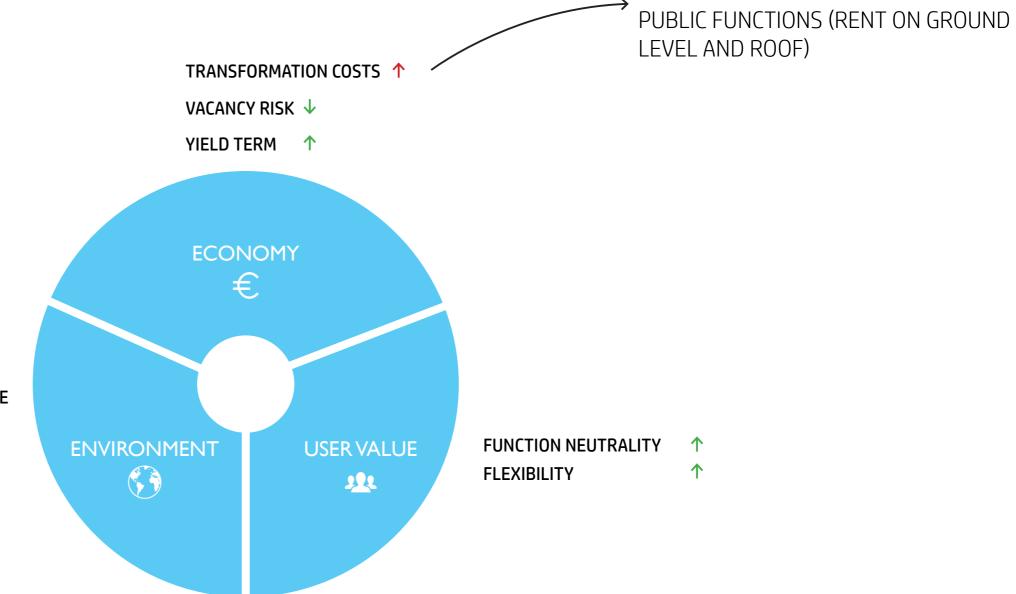






APPENDIX

ECONOMICS



COMPENSATE WITH REVENUE FROM

- **↓** (RAW) MATERIAL USE LOAD BEARING STRUCTURE
- **↓** EMBODIED ENERGY