



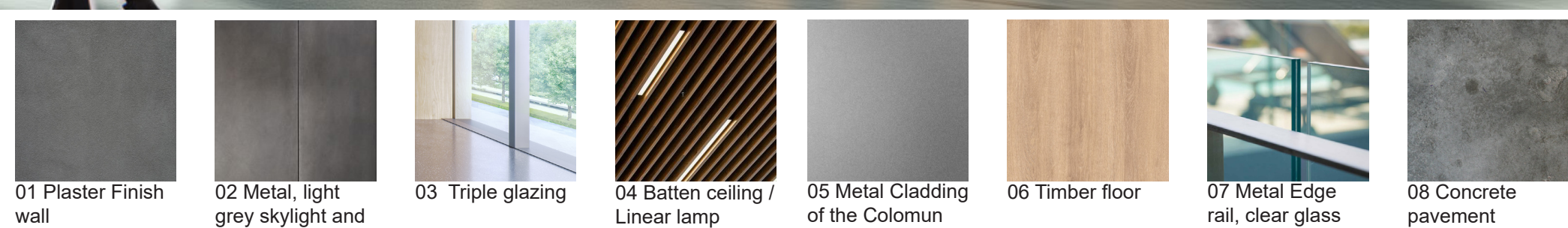
VIEW OF THE PLAZA
the harmonious blending of materials, creating a cosy and warm atmosphere with the timber ceiling and soft lighting.

PLAZA ENVIRONMENTAL SECTION

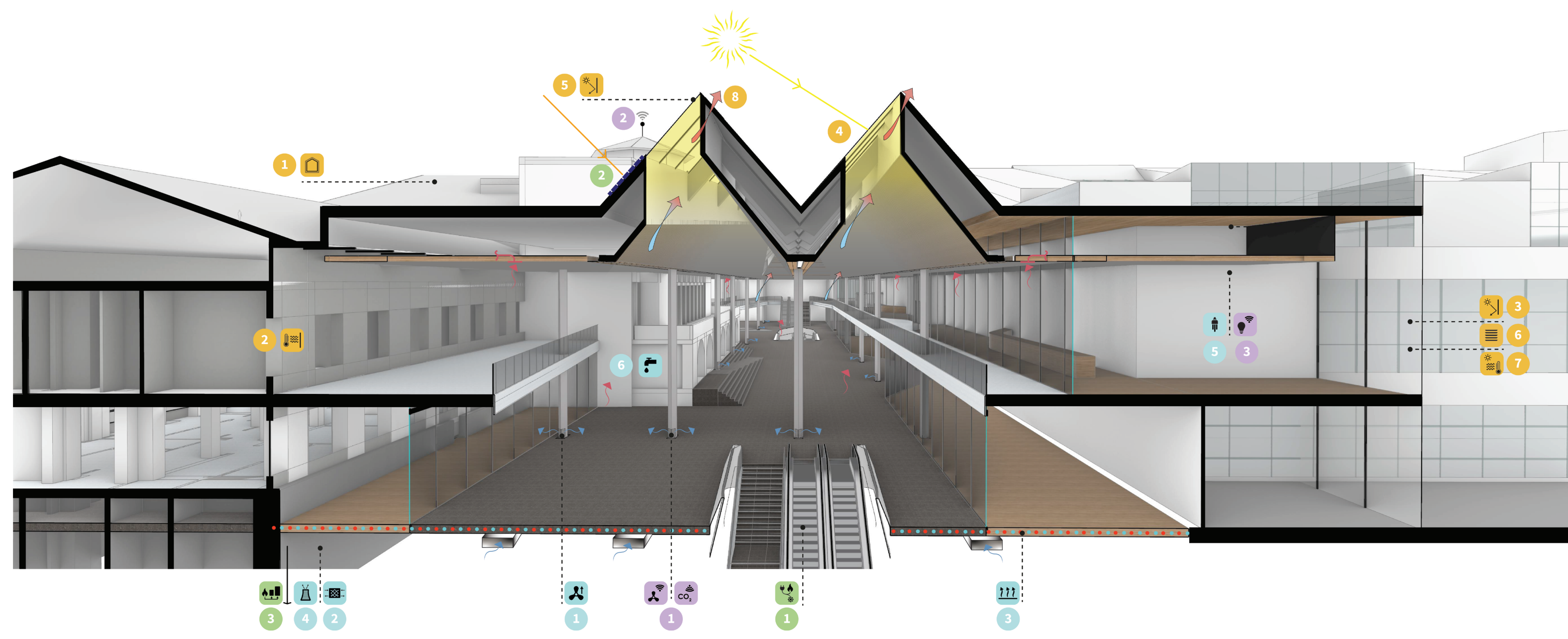
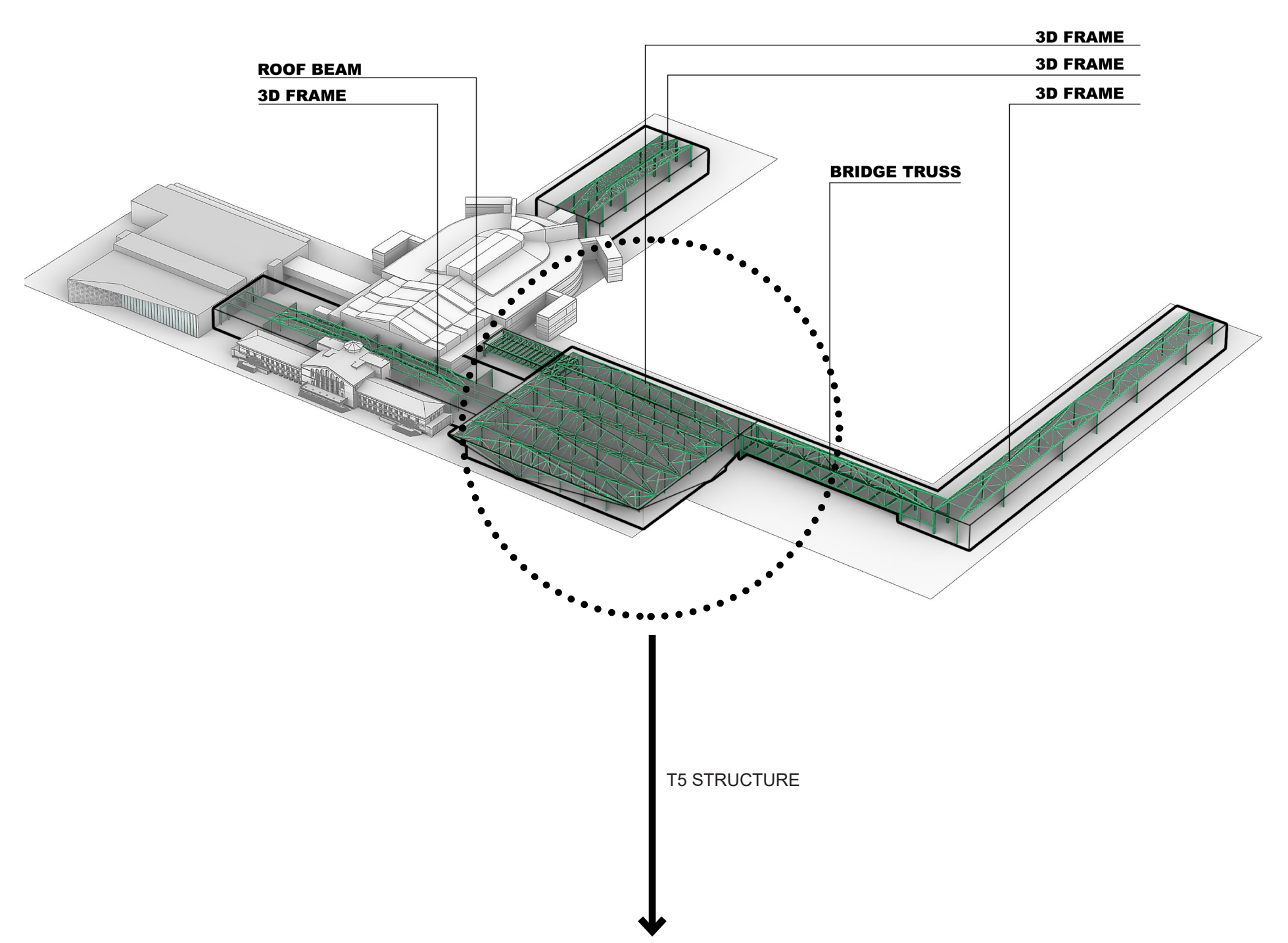
- PASSIVE STRATEGIES**
- Highly Insulated Thermal Envelope**
heat losses are reduced thanks to high performance
 - Existing Masonry Walls with High Thermal Mass**
stores passive solar gains, stabilising indoor temperatures and reducing heating demand
 - High Performing Glazing**
low U-values and low g-values reduces heat transfer and will maximise daylight penetration
 - Diffuse Daylight onto the Floorplate**
reduces the need for artificial lighting
 - High Efficiency Skylight Glazing**
fritted glass to reduce heat gain while maximising daylight
 - External Louvers**
provides shading to prevent overheating in summer
 - Passive Heating**
in winter by letting low-angle sun penetrate
 - Controlled Natural Exhaust**
louvers in the skylight oculus enable natural exhaust while preserving daylight

- SYSTEM DESIGN STRATEGIES**
- Displacement Ventilation**
low-speed air supplied locally at low levels
 - Efficient Mechanical Heat Recovery**
to reduce the amount of heat losses to provide adequate ventilation
 - Underfloor Heating and Cooling**
provides efficient and even thermal comfort in the space
 - Water-Cooled Heat Pump with Radiant Cooler**
efficient cooling system and compatible with energy sharing system
 - LED Lighting**
with daylight controls
 - Water-Efficient Fixtures and Fittings**
reduces overall water consumption

- CLEAN ENERGY STRATEGIES**
- All Electric Building**
 - Photovoltaic Energy Generation**
installed with optimised location
 - District Heating Connection**
to existing central Vinius district heating network
- SMART CONTROL STRATEGIES**
- CO₂ Sensors**
regulates airflow based on occupancy levels
 - Local Weather Station**
building will be operated based on the external weather conditions
 - Lighting Controls**
daylight dimming and PIR sensors



STRUCTURE OVERALL LAYOUT



COMMERCIAL LOOP AND CONNECTION TO TERMINALS

