

Repairing Sofia's Cultural Fabric Bulgarian National Gallery Expansion Project

International Council of Museums: Milan 2016

by **Yanko Apostolov** RIBA

Strategic Partners



REPUBLIC OF BULGARIA
Ministry of Culture



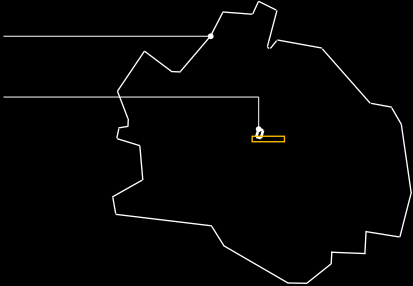
EUROPEAN UNION
European Regional
Development Fund

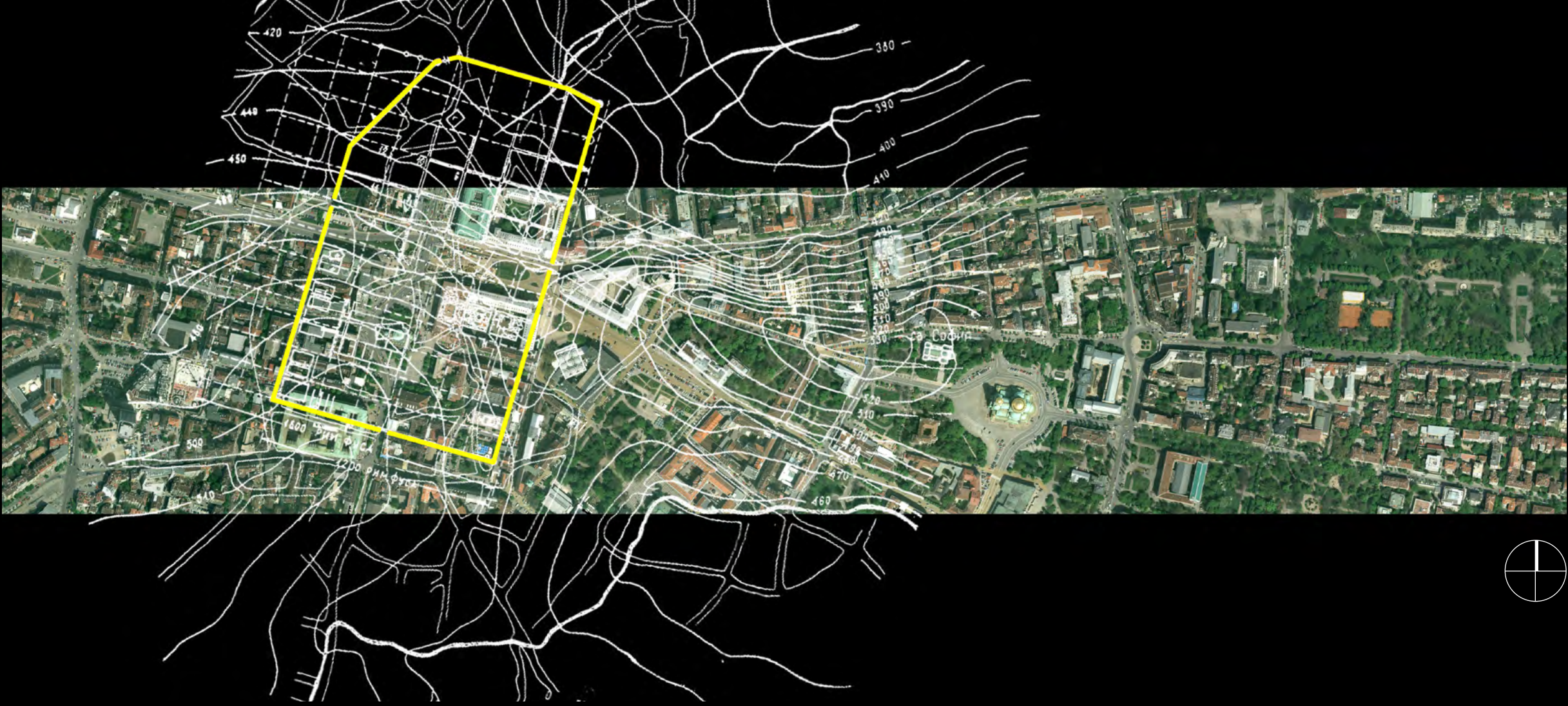
SOFIA

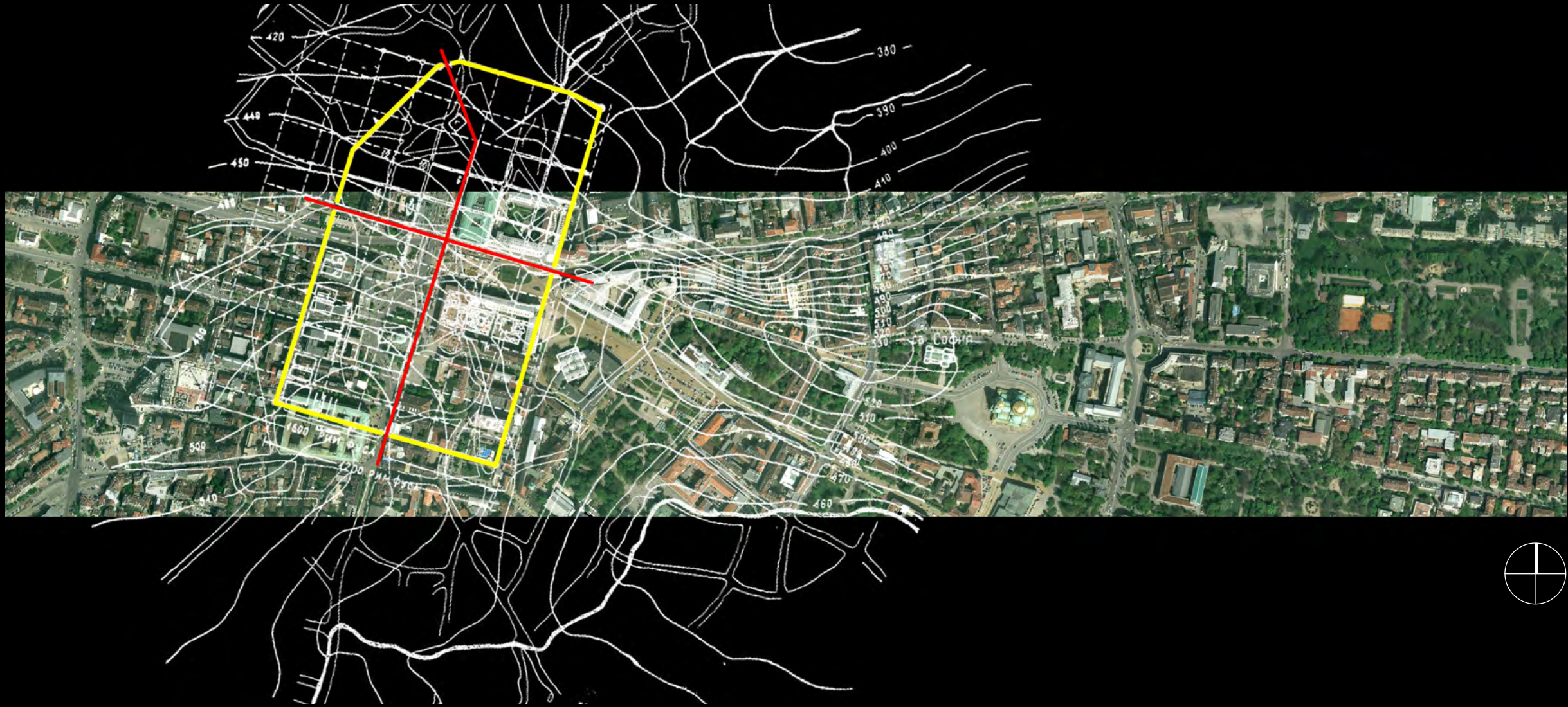
2016 Population: 1.26 million

4th Century AD - Roman City

1st Century BC - Established



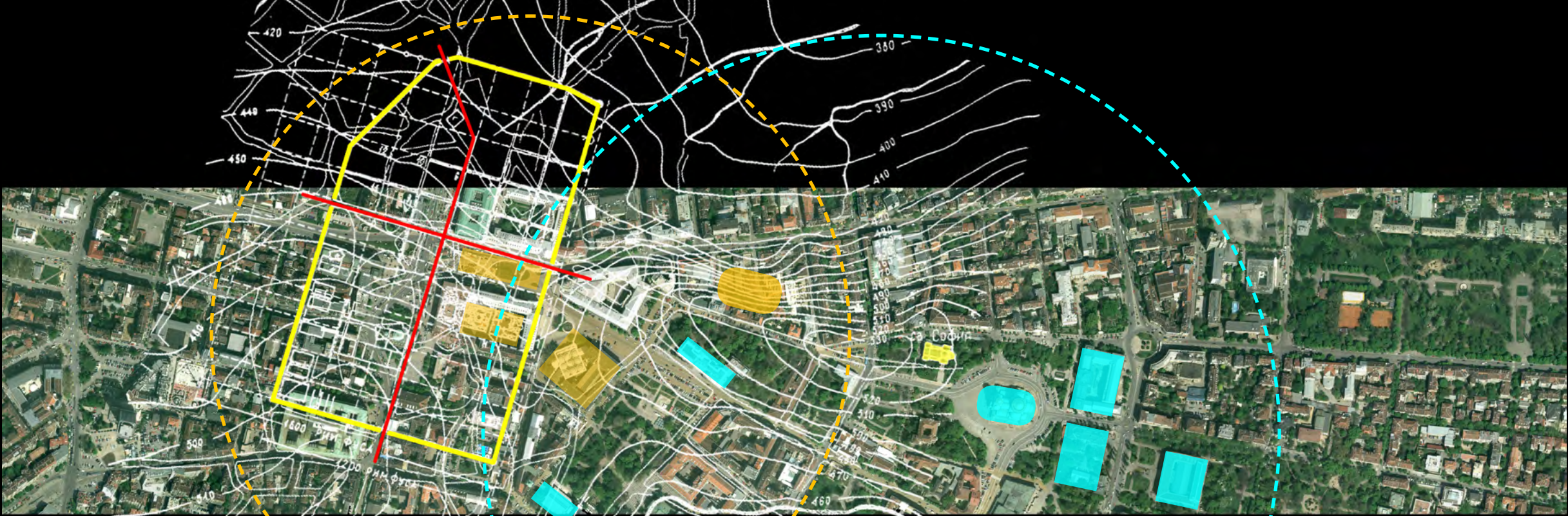






HISTORY



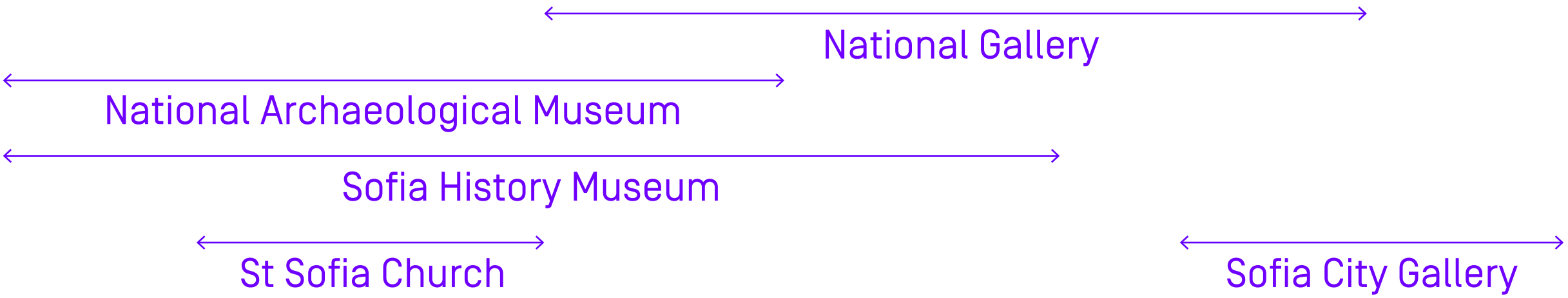
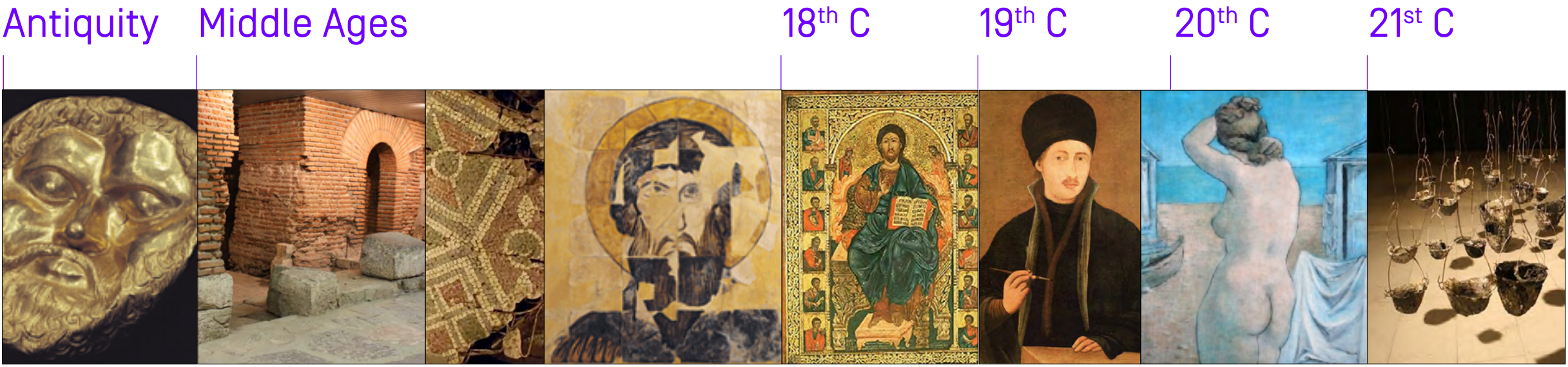


HISTORY

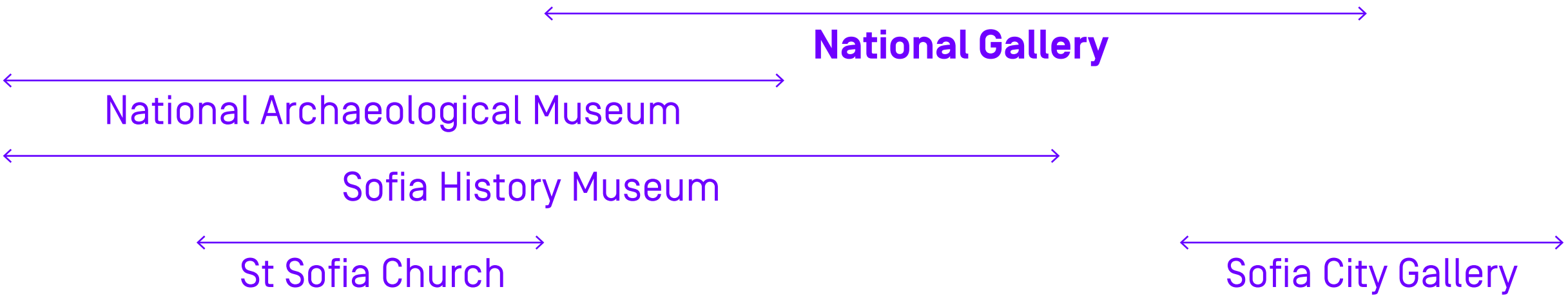
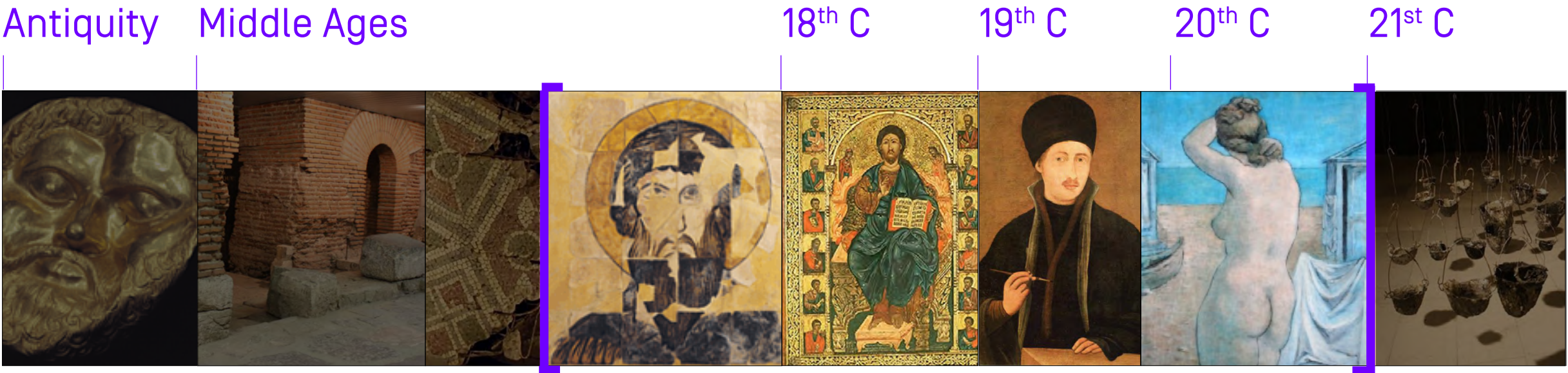
ART



Cultural Heritage Timeline



Cultural Heritage Timeline



ST. GEORGE'S ROTONDA

ARCHEOLOGICAL MUSEUM

NATIONAL GALLERY
[FORMER ROYAL RESIDENCE]

ST. NIKOLAY CHURCH

ST. SOFIA CHURCH

SERDICA NECROPOLIS

NATIONAL ART ACADEMY

NATIONAL LIBRARY

ST. PETKA CHURCH & SOFIA LARGO

CITY ART GALLERY

ROMAN AMPHITHEATRE REMAINS

EARLY CHRISTIAN TOMB

NATIONAL GALLERY
[CATHEDRAL CRYPT]

NATIONAL GALLERY
[SQUARE 500]

SHIPKA 6 GALLERY



Design Competition Objectives

- Consolidate museum operations in a single unified building complex
- Expand permanent and temporary exhibitions galleries
- Consolidate and increase art storage
- Resolve art handling operations
- Provide collection care facilities
- Provide education facilities
- Create public amenities
- Optimize existing building capacity

National Gallery Master Plan Phases

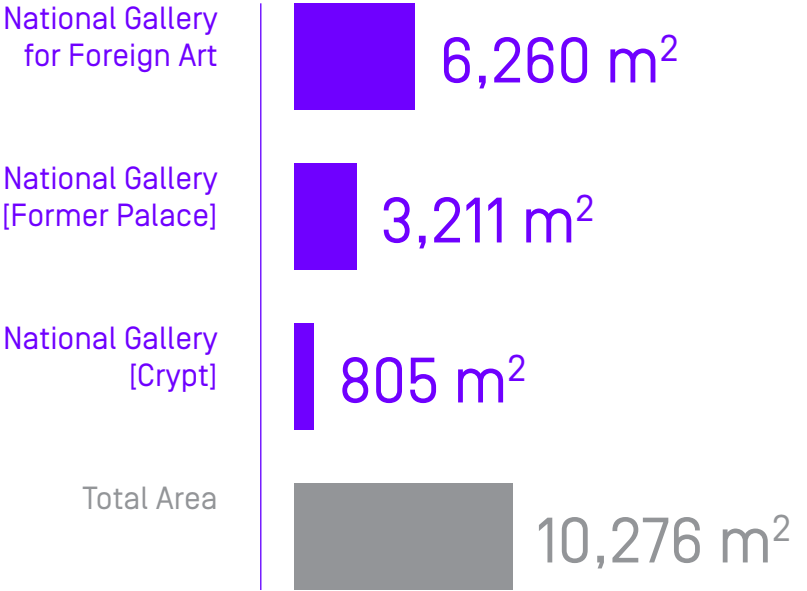
1 **Survey of Existing Conditions**
Document what exists today

2 **Needs Analysis**
Confirm strategic goals and identify current and future needs

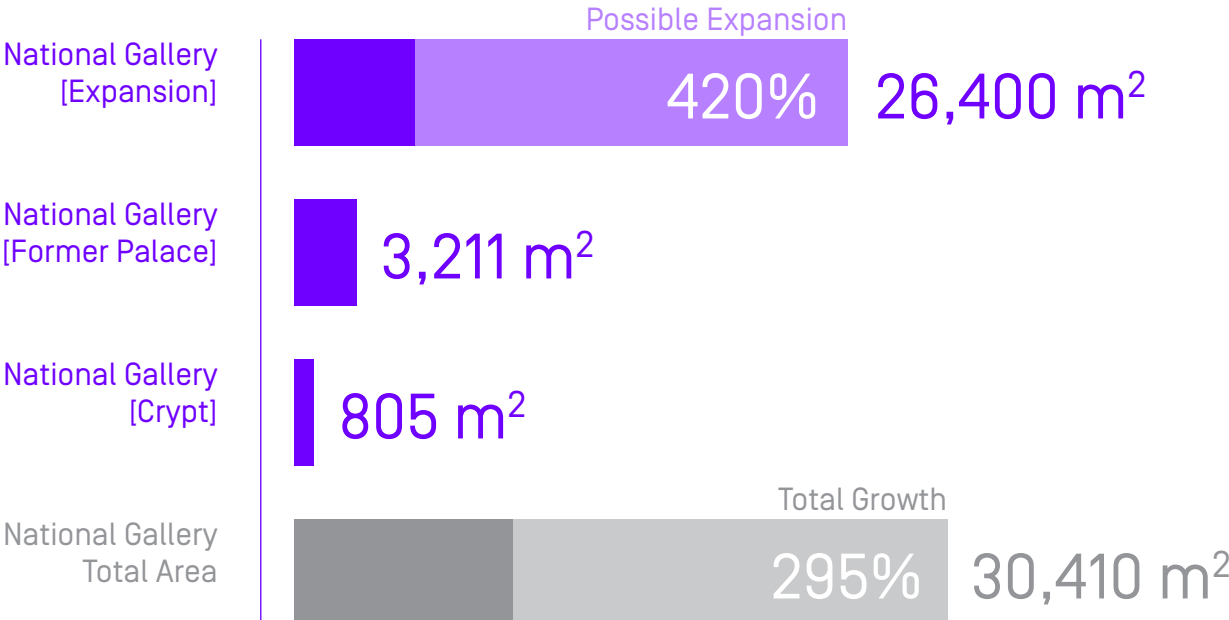
3 **Preliminary Architectural Programme**
Describe the needs and vision in physical terms

4 **Strategic Master Plan**
Create an integrated, coherent plan and budget to be implemented over time

Existing Museum Institutions



Consolidated National Gallery



Benchmarking: Total Area

National Gallery
[Expansion]



National Gallery
[Former Palace]



National Gallery
[Crypt]



National Gallery
Total Area

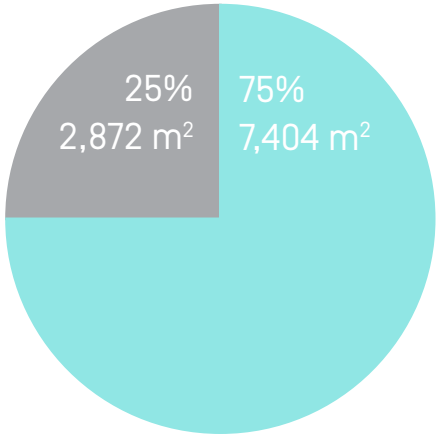


Aspirational
Peers

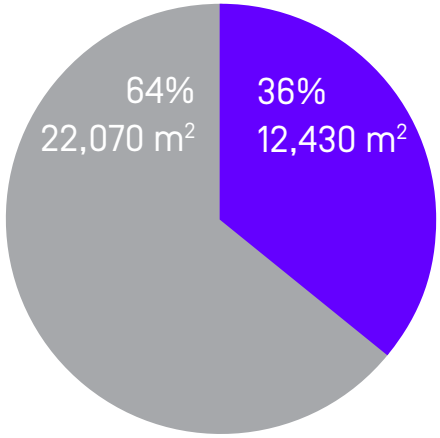
TATE Modern 34,500 m²

MoMA 58,550 m²

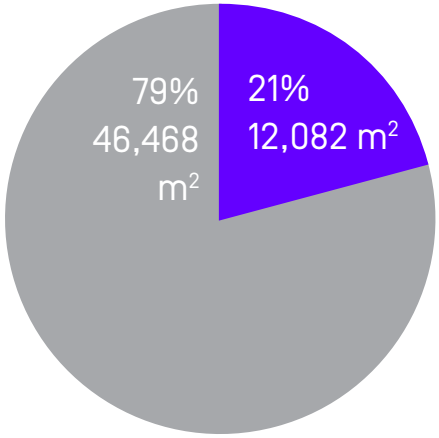
Benchmarking: Exhibition Spaces



National Gallery
Sofia



TATE Modern
London



MoMA
New York

Benchmarking: Exhibition Spaces

National Gallery
Sofia



TATE Modern
London



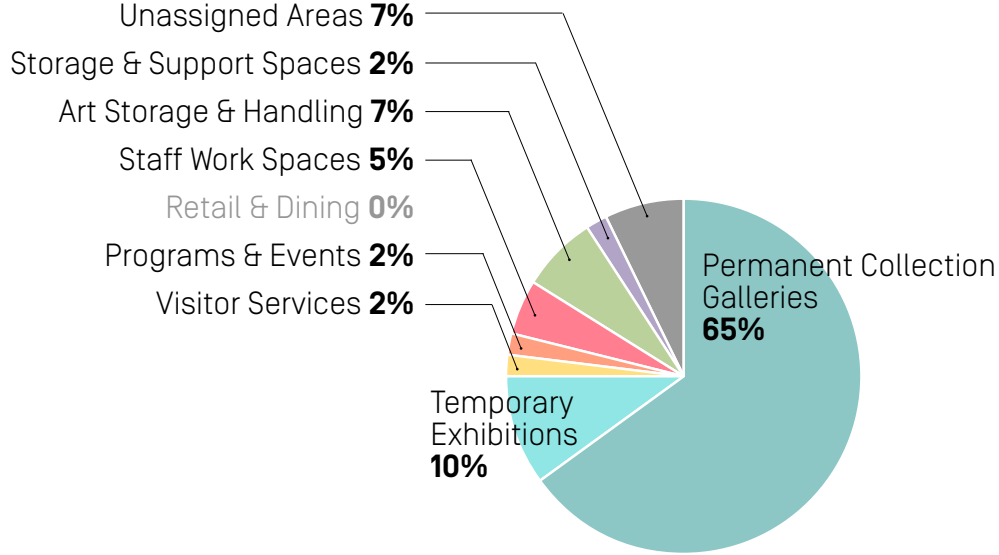
MoMA
New York



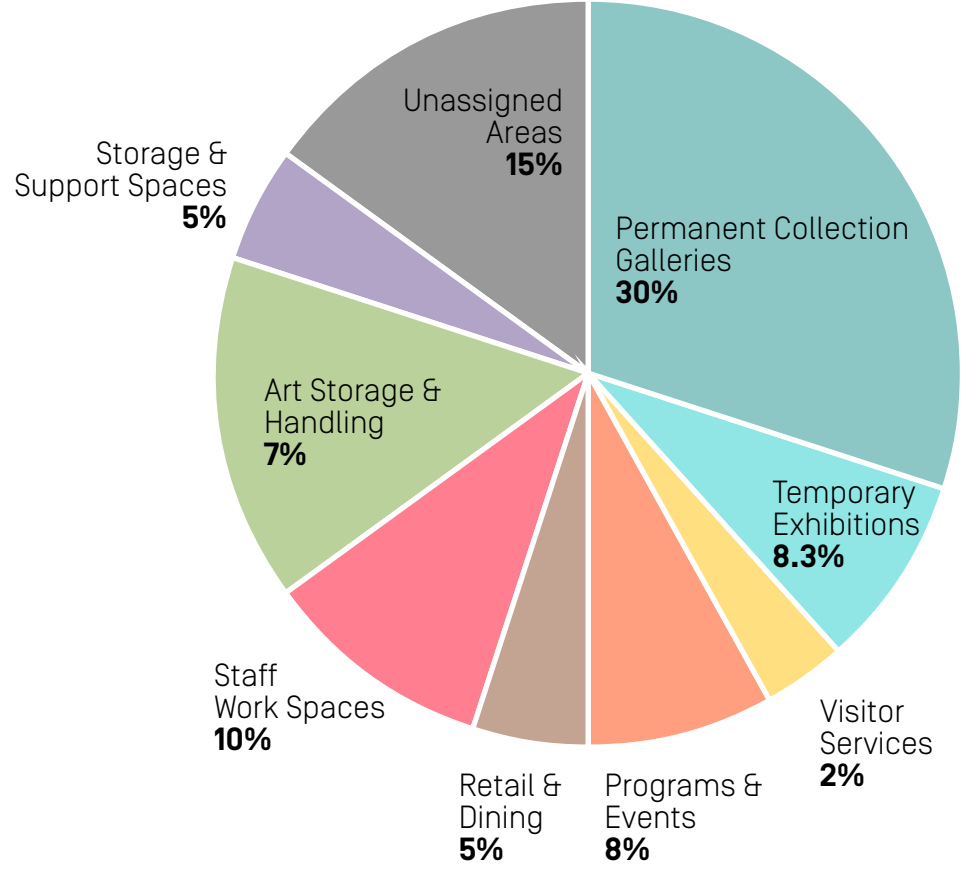
Growth Projections



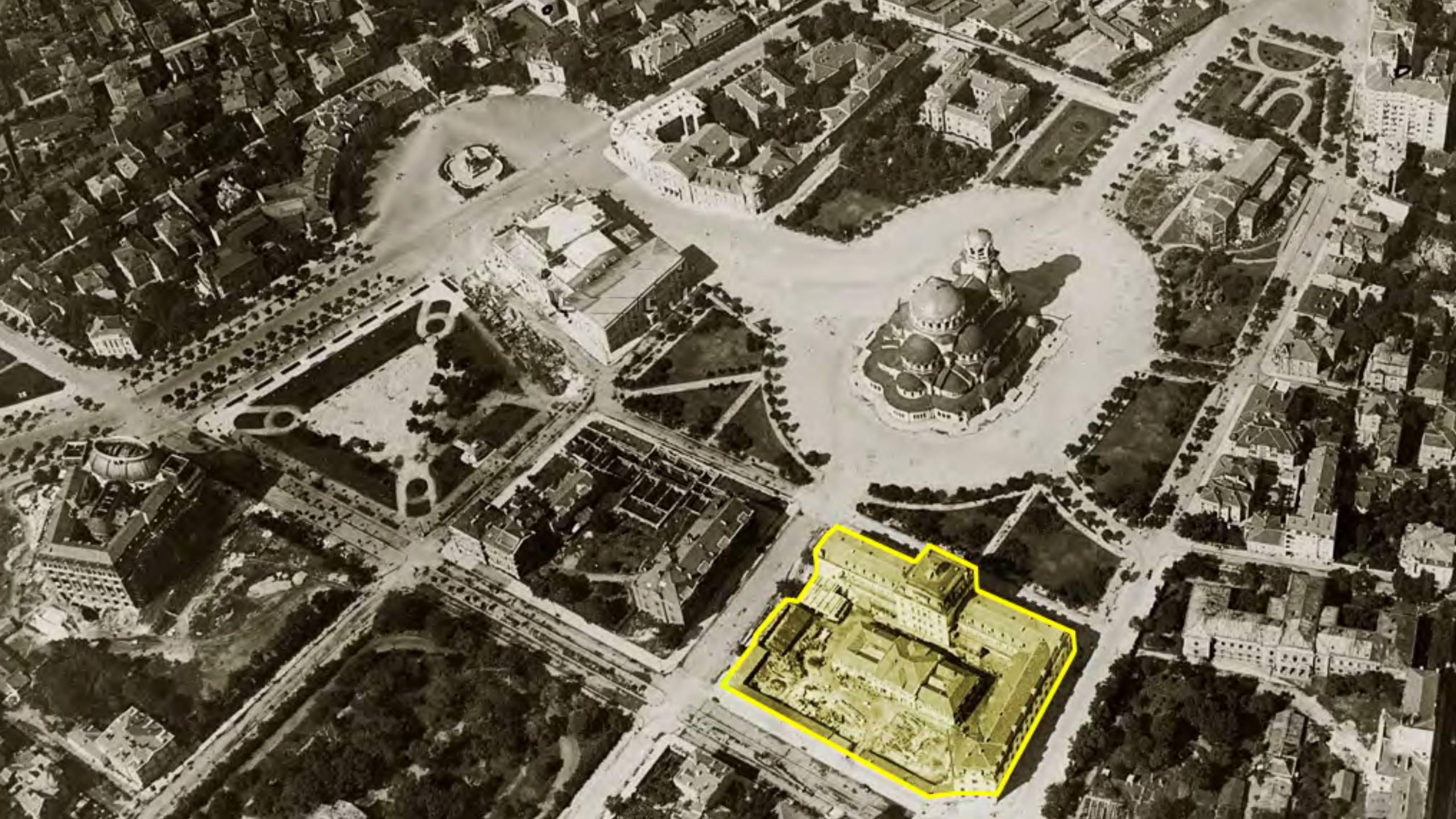
Preliminary Architectural Programme



Existing programme
6,260m²

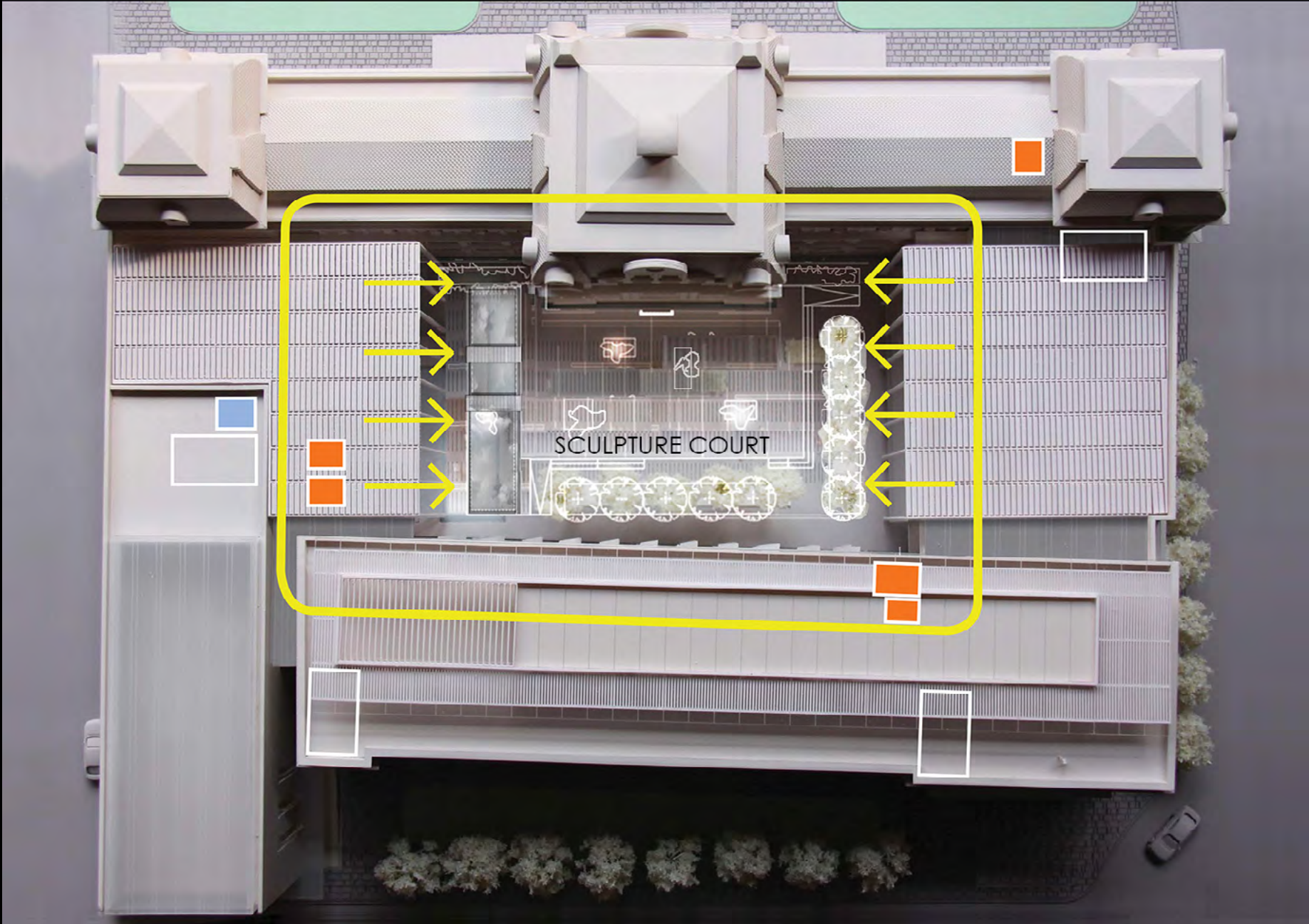


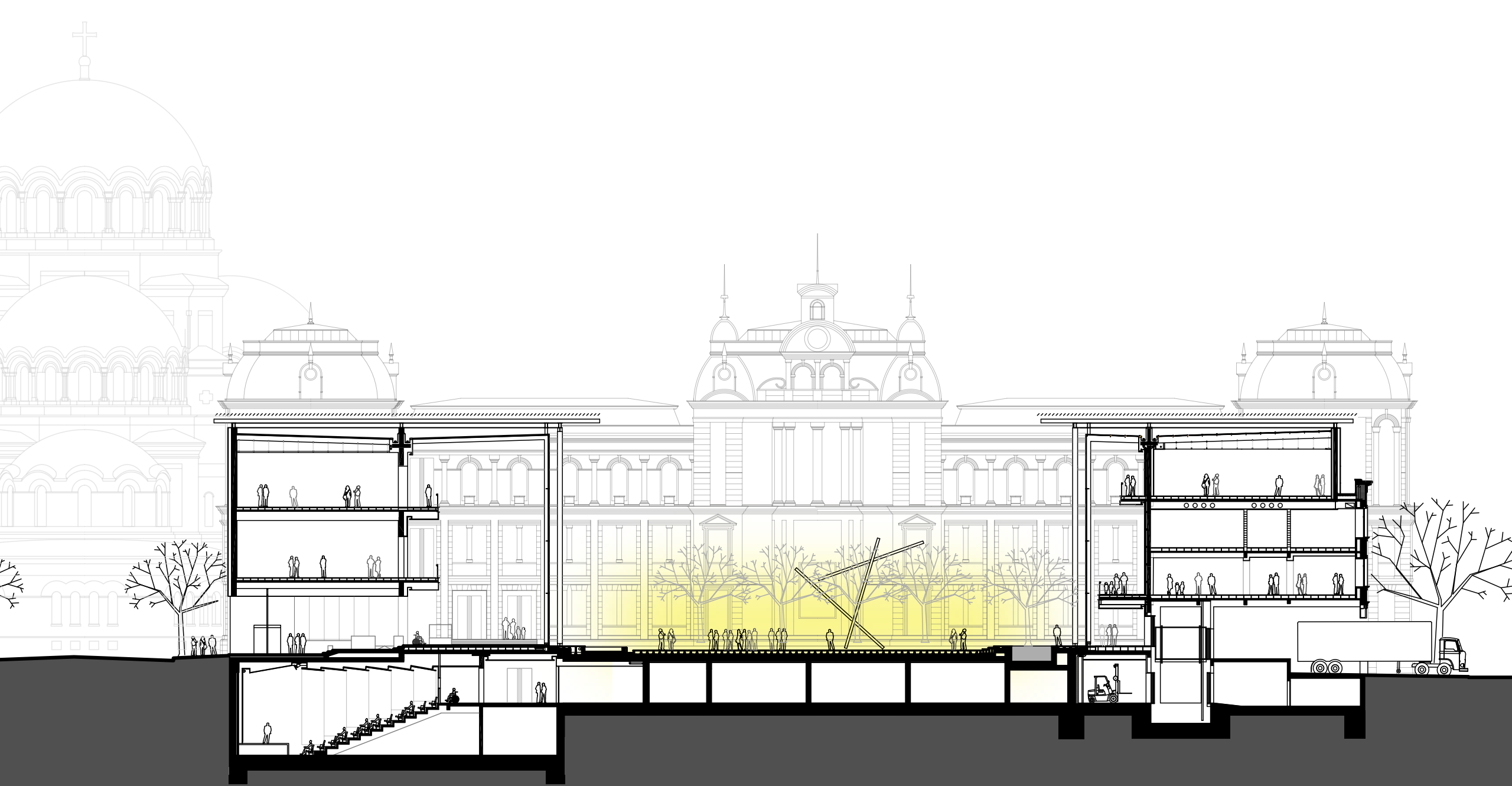
Proposed programme
26,400 m²

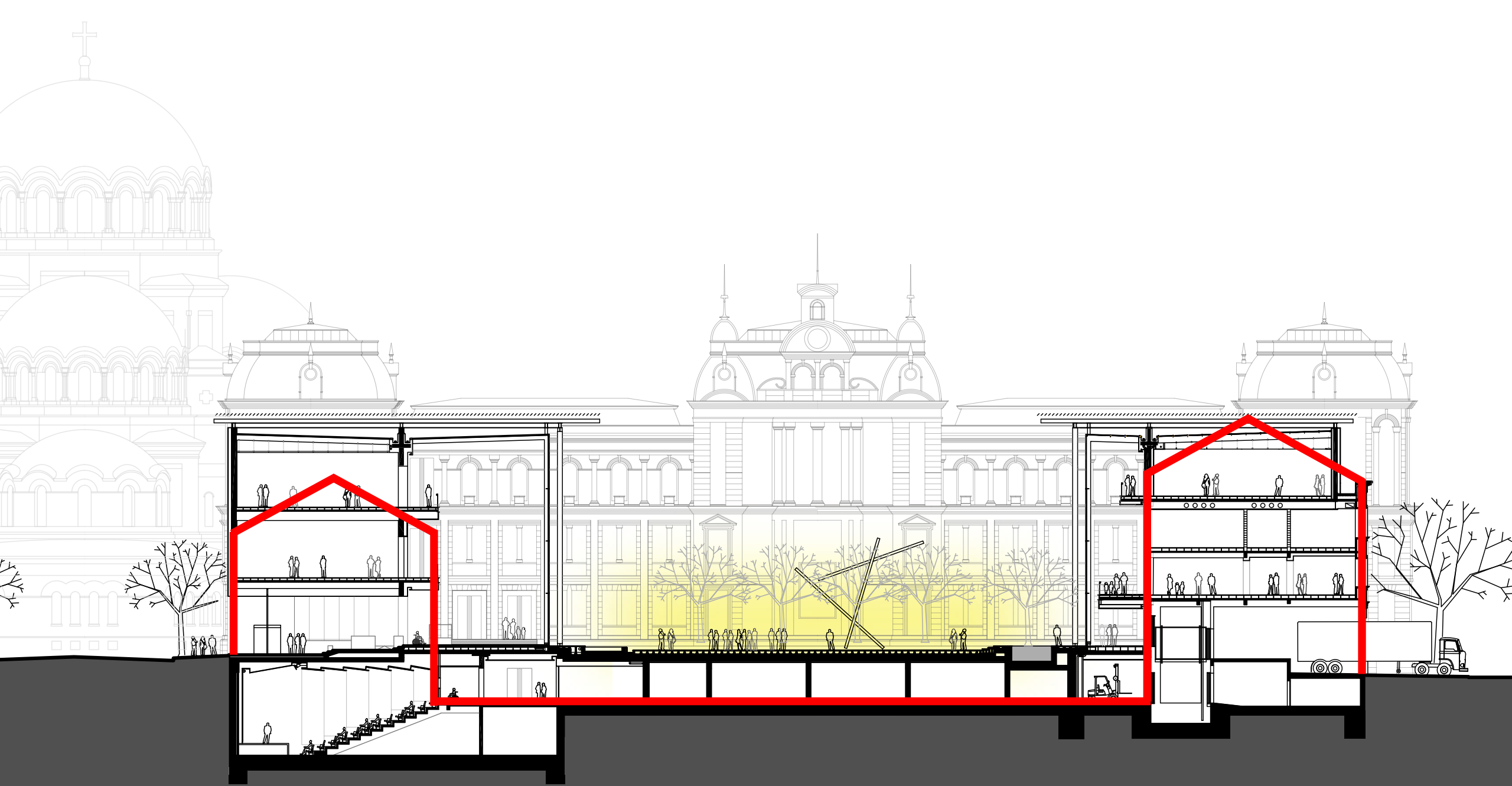


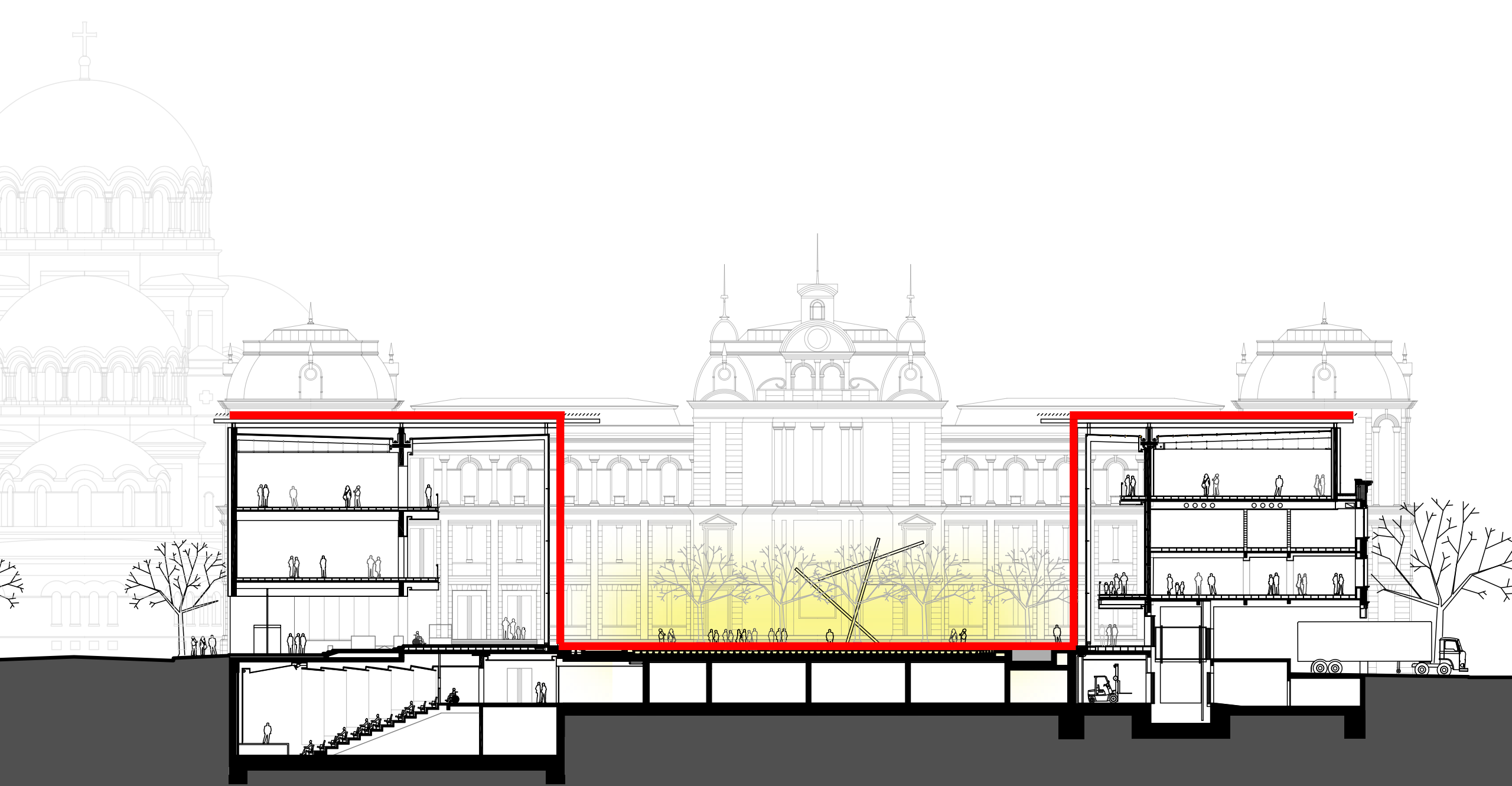


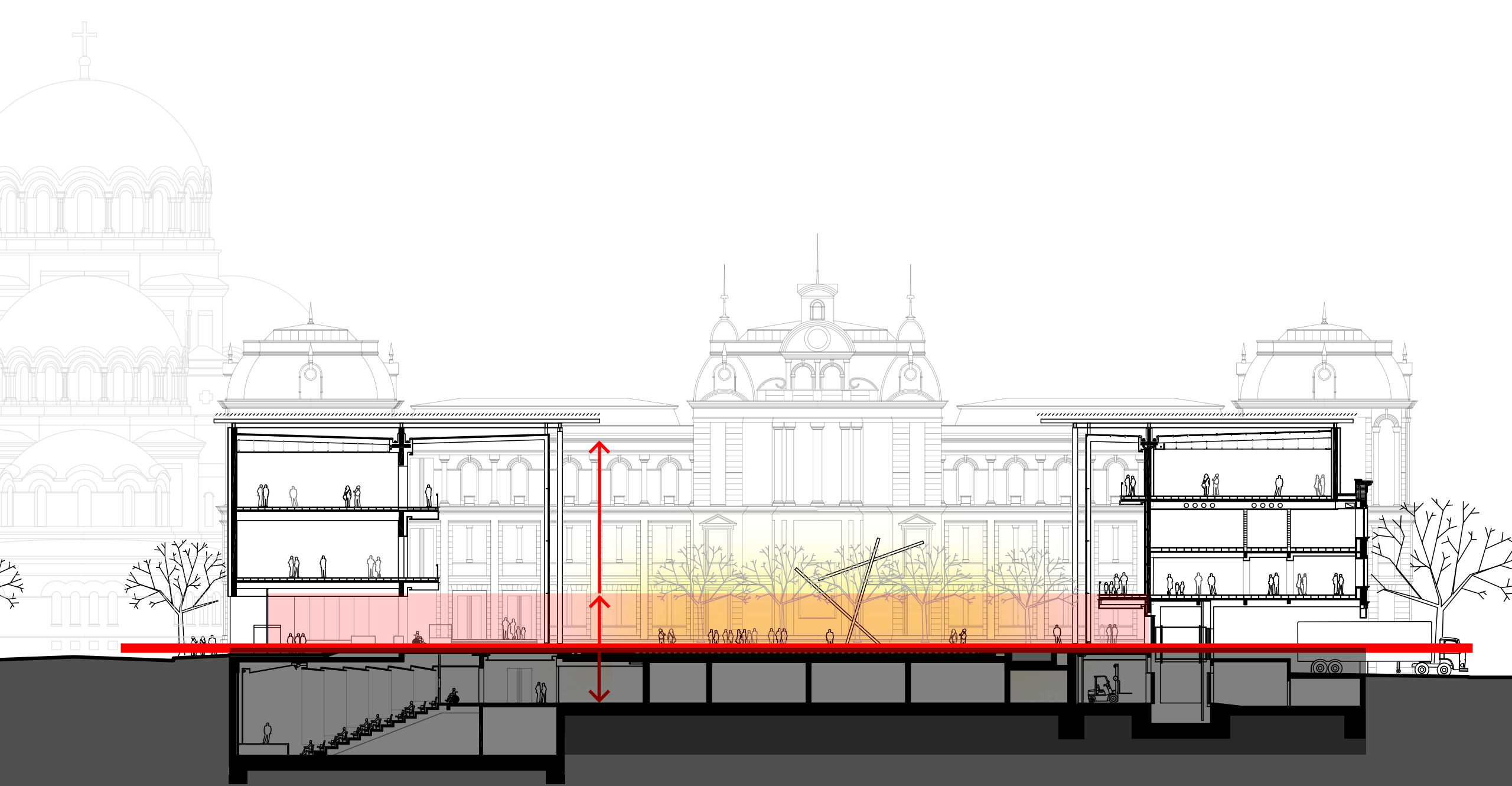


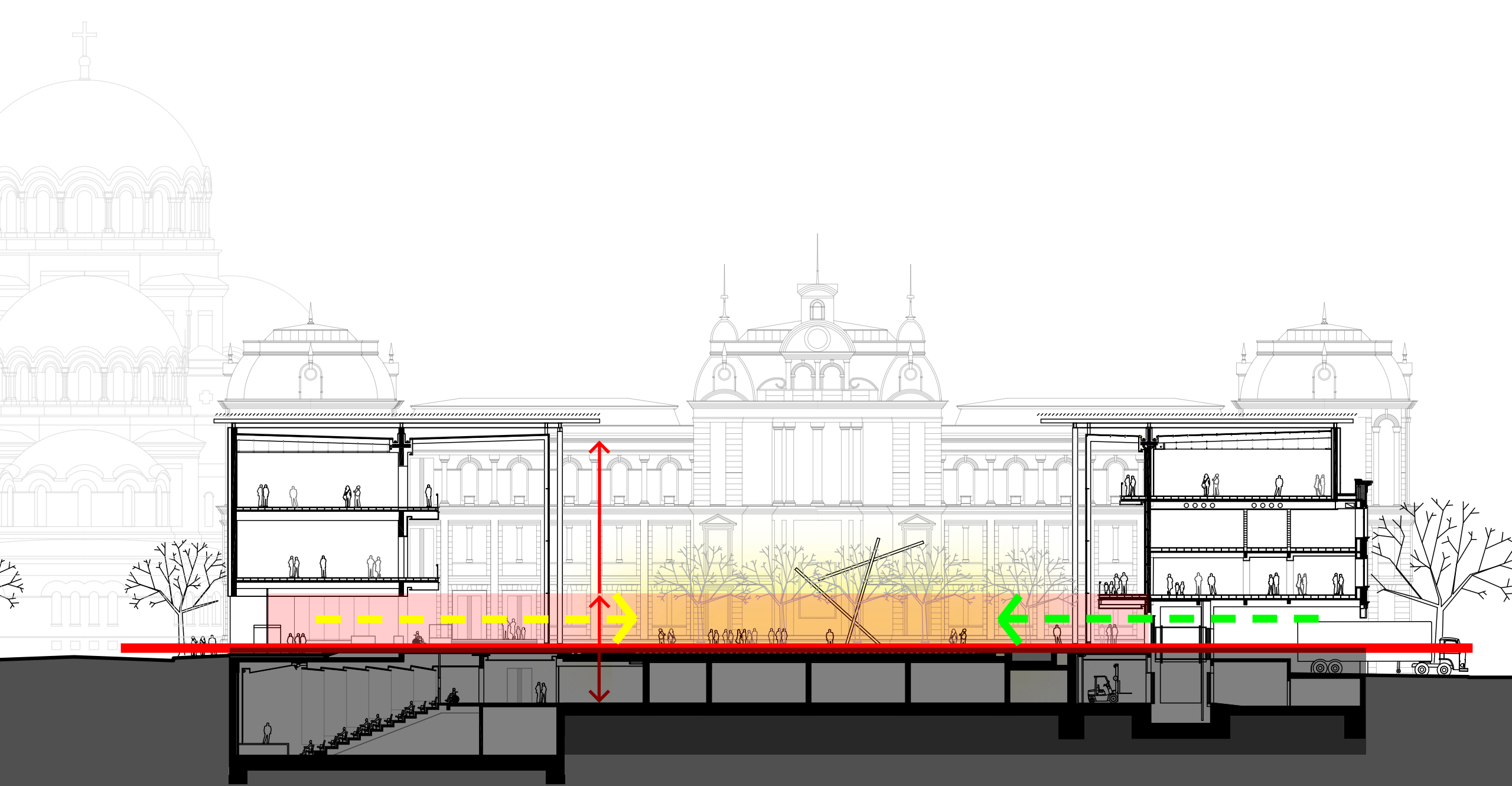


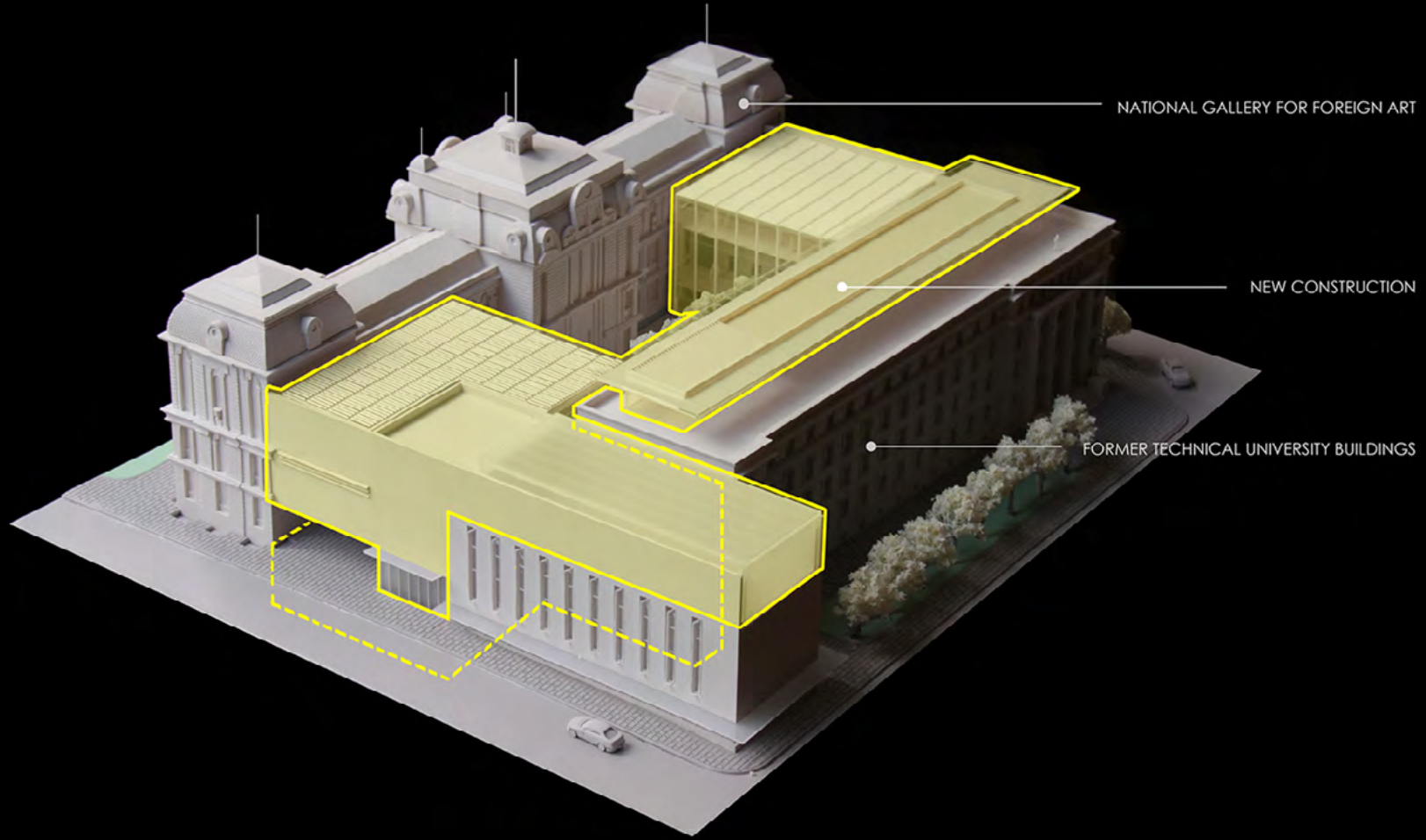








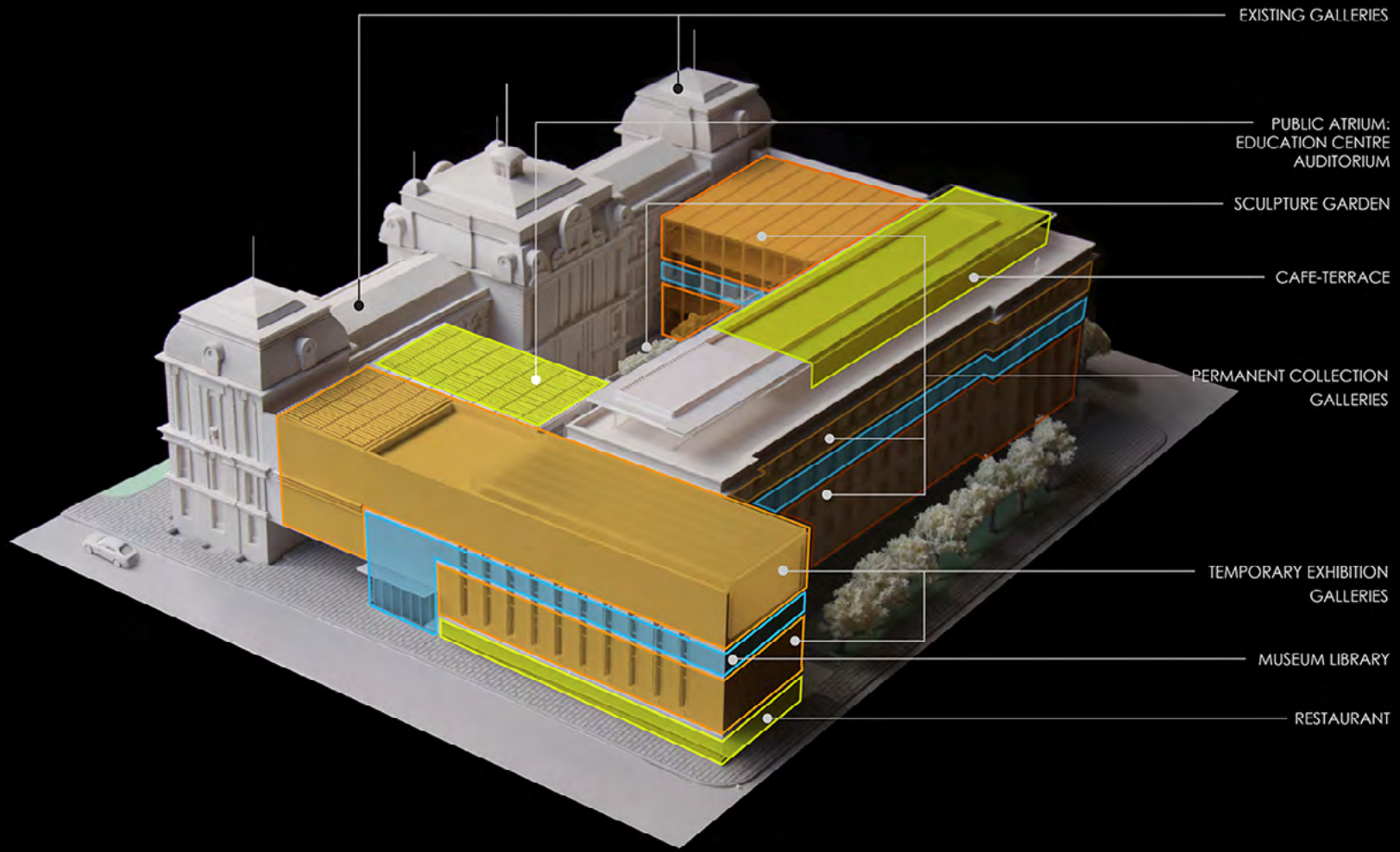




NATIONAL GALLERY FOR FOREIGN ART

NEW CONSTRUCTION

FORMER TECHNICAL UNIVERSITY BUILDINGS





WATER EFFICIENT LANDSCAPE
at green roofs and sculpture court



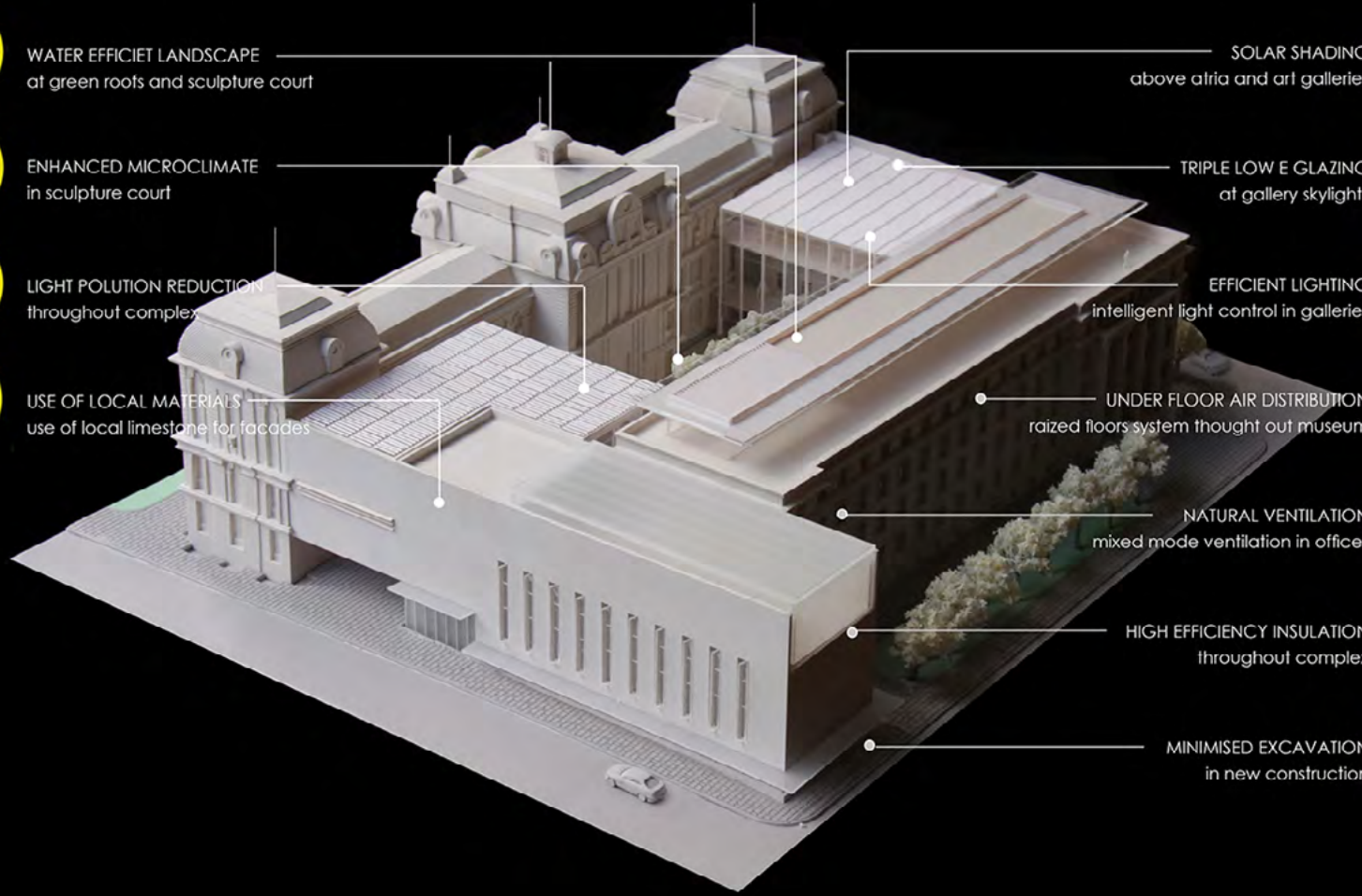
ENHANCED MICROCLIMATE
in sculpture court



LIGHT POLLUTION REDUCTION
throughout complex



USE OF LOCAL MATERIALS
use of local limestone for facades



SOLAR SHADING
above atria and art galleries



TRIPLE LOW E GLAZING
at gallery skylights



EFFICIENT LIGHTING
intelligent light control in galleries



UNDER FLOOR AIR DISTRIBUTION
raised floors system throughout museum



NATURAL VENTILATION
mixed mode ventilation in offices



HIGH EFFICIENCY INSULATION
throughout complex



MINIMISED EXCAVATION
in new construction

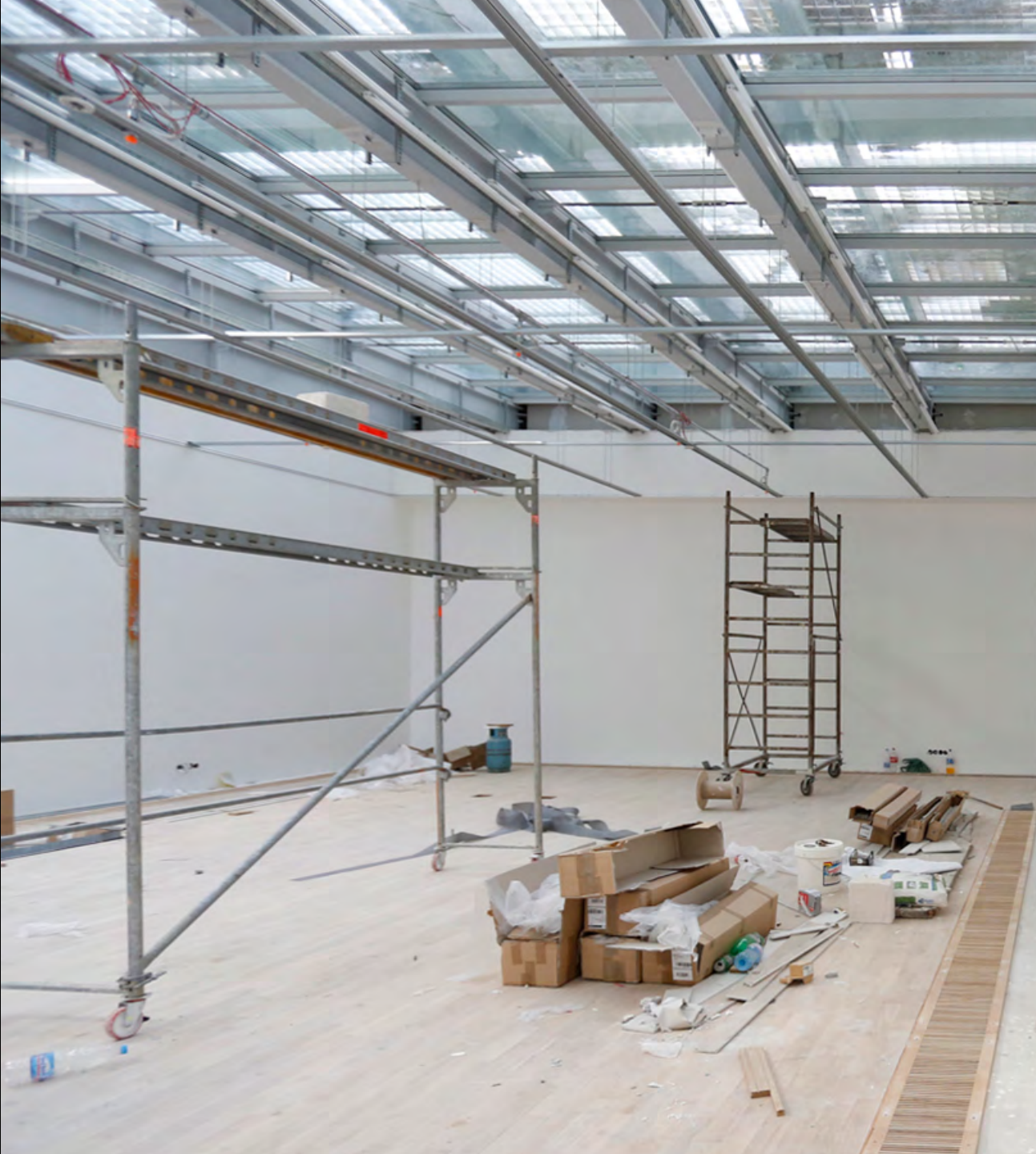


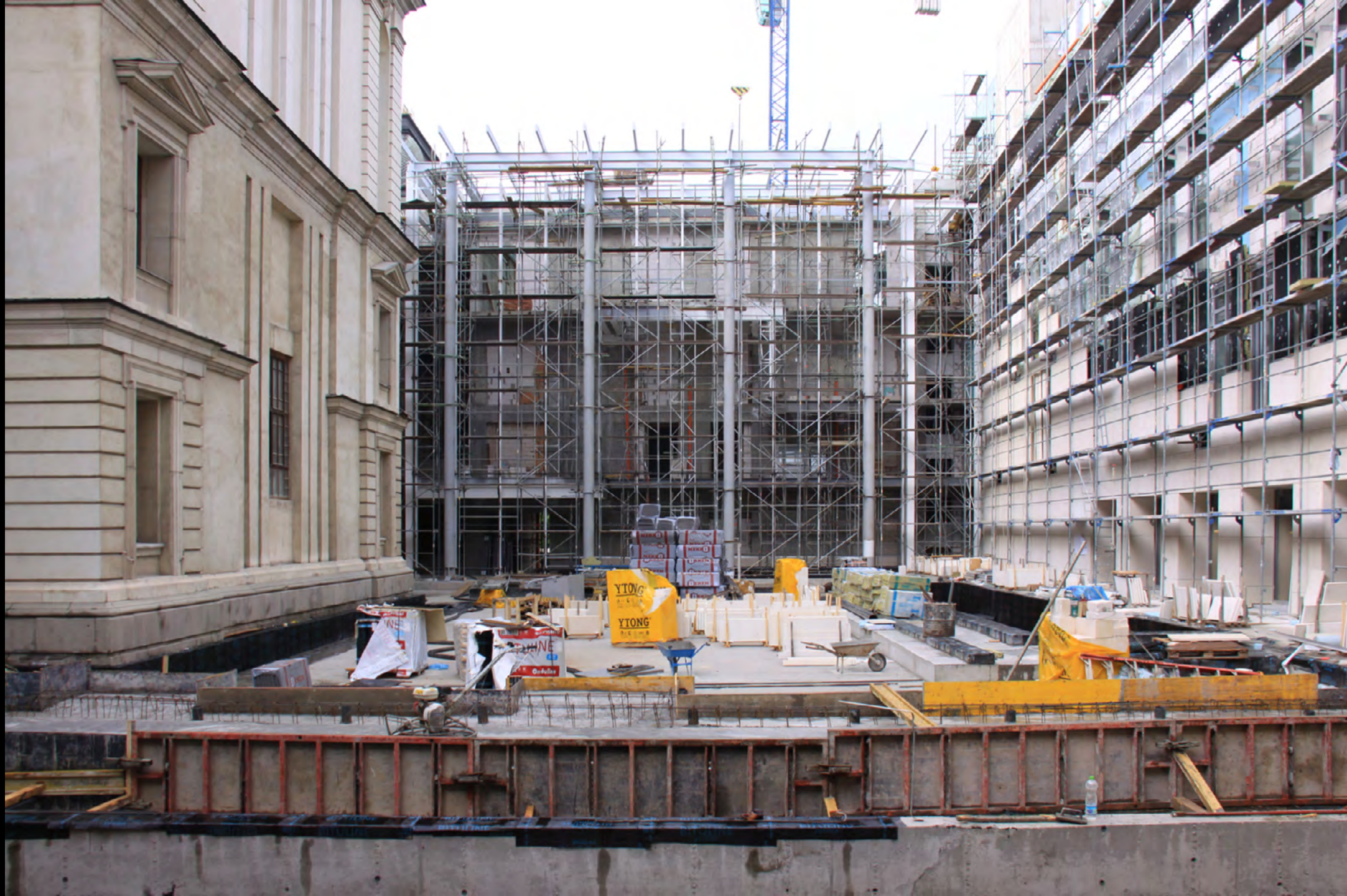




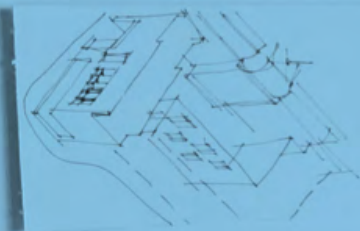
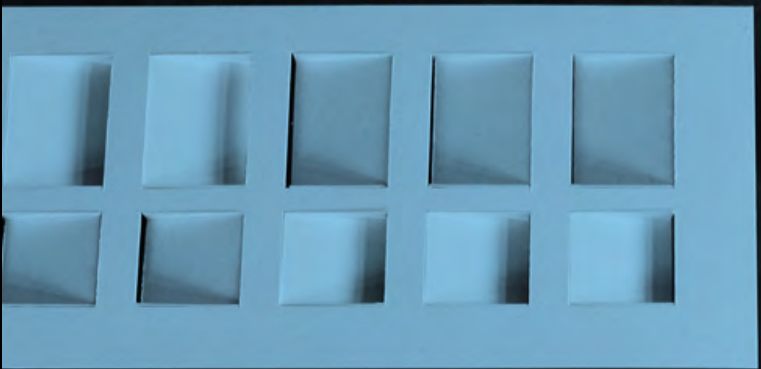
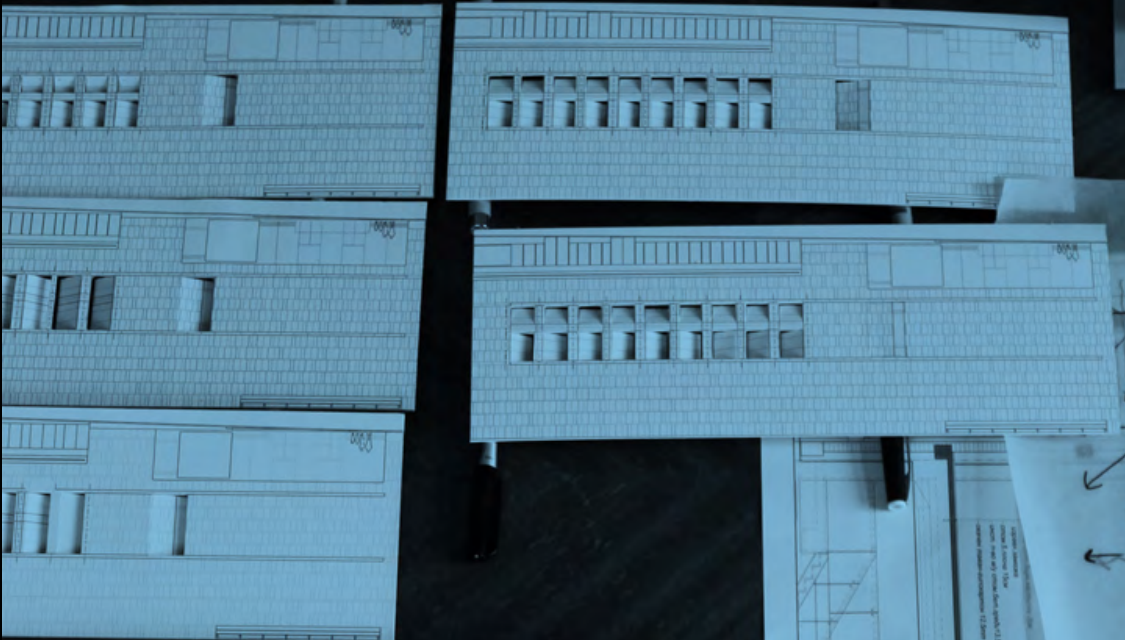
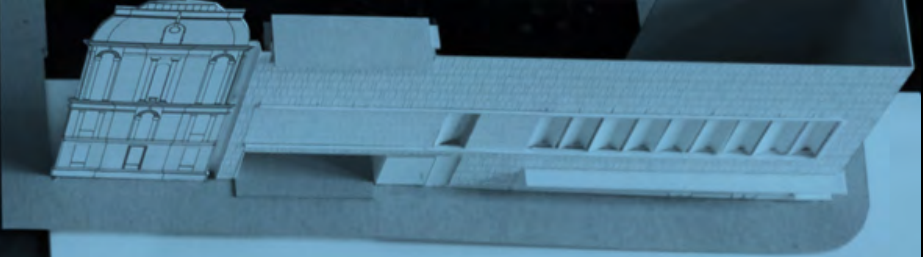




































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