hailey irwin
geodesign student

about me

I am Hailey Irwin and currently a GeoDesign major at the University of Southern California. The GeoDesign major integrates coursework across a range of disciplines, including architecture, geography, urban planning, statistics, environmental science, global security, and Geospatial Information Systems (GIS) tools and techniques. I am also pursuing minors in Real Estate Development and Communication Technology Practices and Platforms. Having grown up in Washington, DC, I am inspired to apply my skills to problems of national concern, including national security, disaster management, and climate change. My ambition is to one day work for an organization such as the National Oceanic and Atmospheric Agency (NOAA), Federal Emergency Management Agency (FEMA), or National Geospatial-Intelligence Agency (NGIA).

I have assembled this portfolio to showcase my work and growing skillset to potential employers as I seek out relevant internship positions. Its contents are a compilation of projects and assignments completed for my architecture course, Principles of Spatial Design I, which was taught by Lauren Matchison.

I can be reached at hairwin@usc.edu and
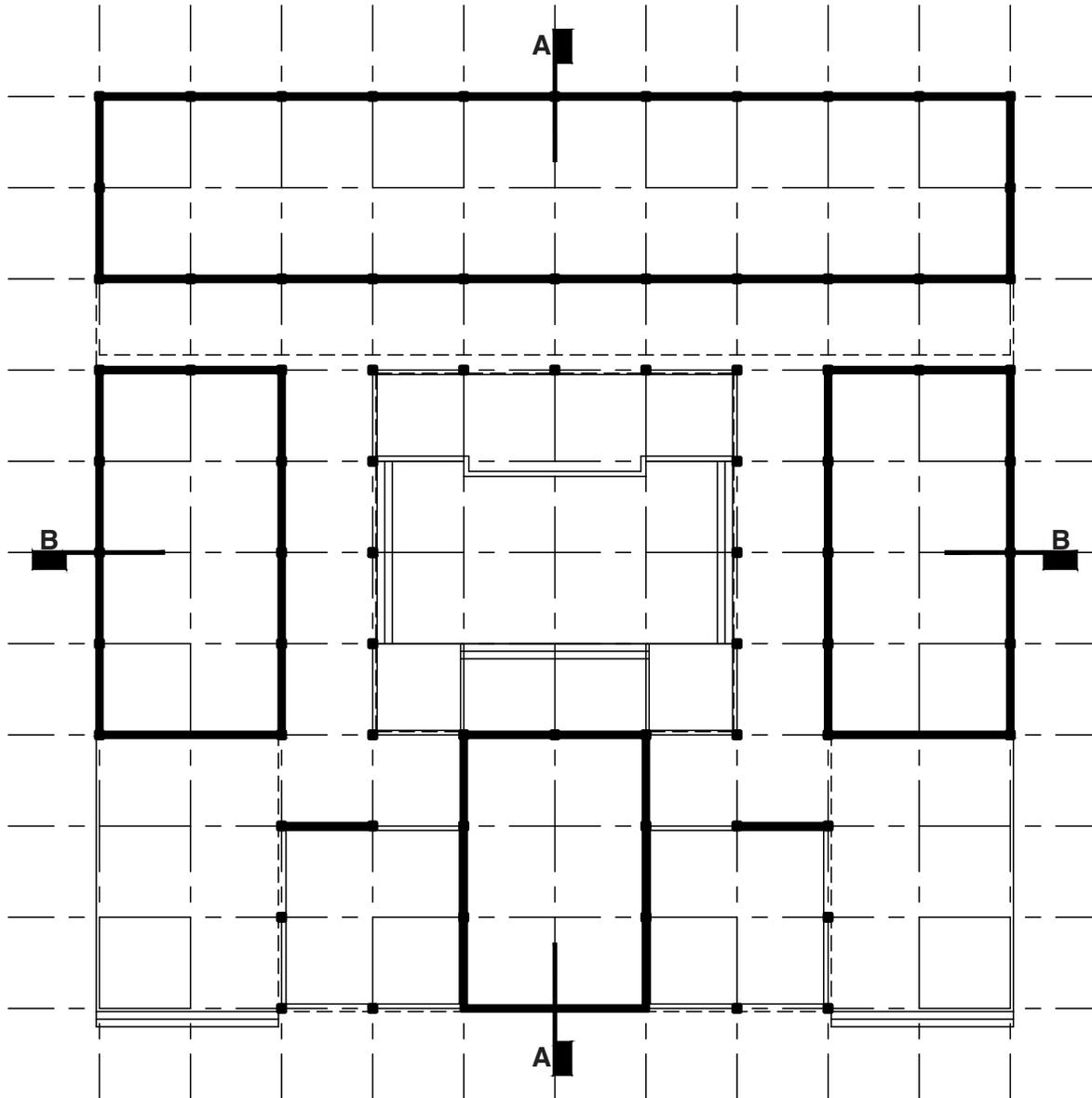(202) 288-1153.

table of contents

USC UNIVERSITY RELIGIOUS CENTER
KILLINGSWORTH, BRADY AND ASSOCIATES
LOS ANGELES, CALIFORNIA
1965

A

B   B

A

FLOOR PLAN

project one
University Religious Center

With the URC building at USC as its sub-
ject, this project focused on communicat-
ing the story of the building and the experi-
ence of those interacting with it. I explored
the underlying architectural principles
though a 2D diagram and black and white
figure fields. The topics examined include
spatial relationships, grid, spatial organi-
zation, entrance, configuration of the path,
path-space relationship, hierarchy, sym-
metry, repetitive to unique, nine-square,
geometry, subtractive, and double center.
These were introduced using various dia-
grams and emphasized by lineweight and
through both hand sketching and AutoCad,
Photoshop, and Illustrator design. I exam-
ined both the 2D and 3D relationships in
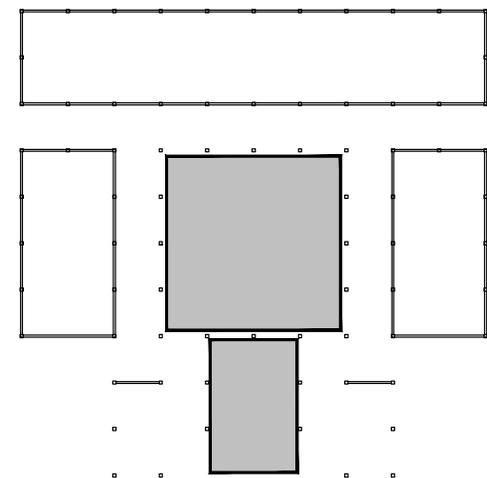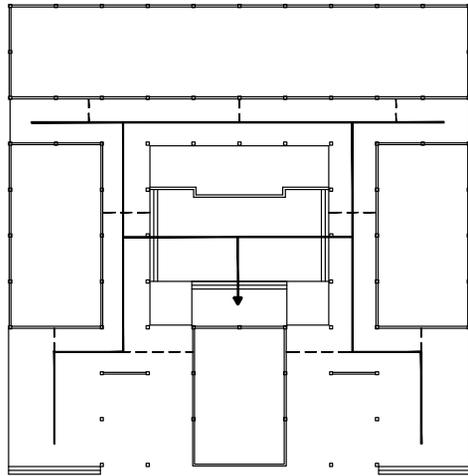the structure.
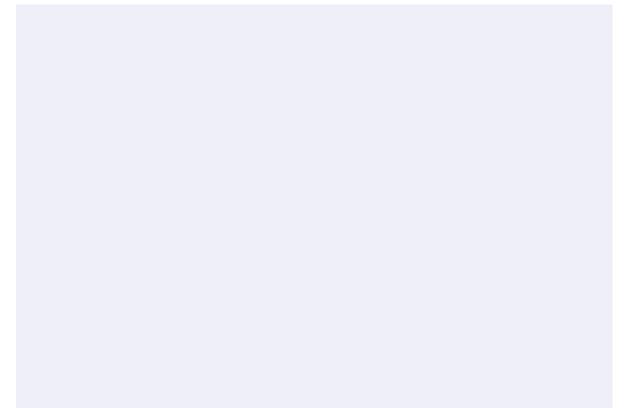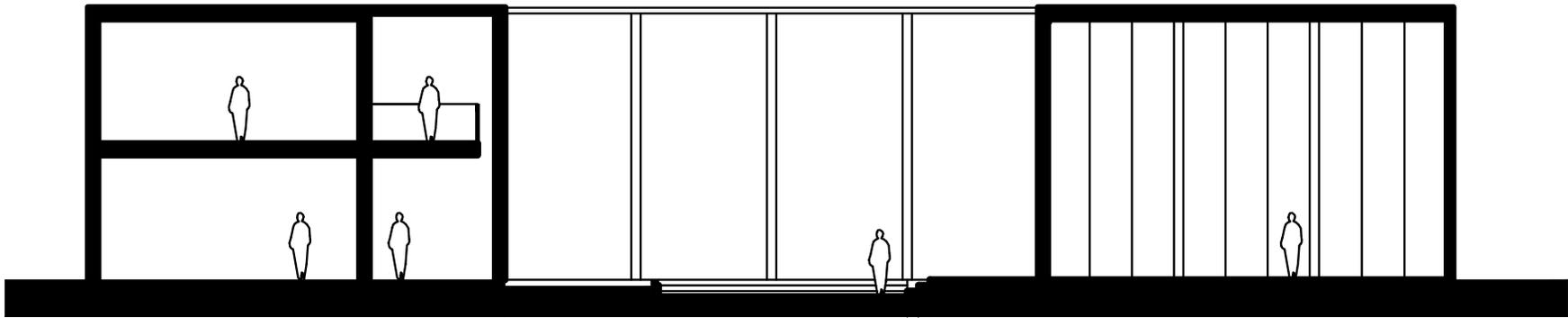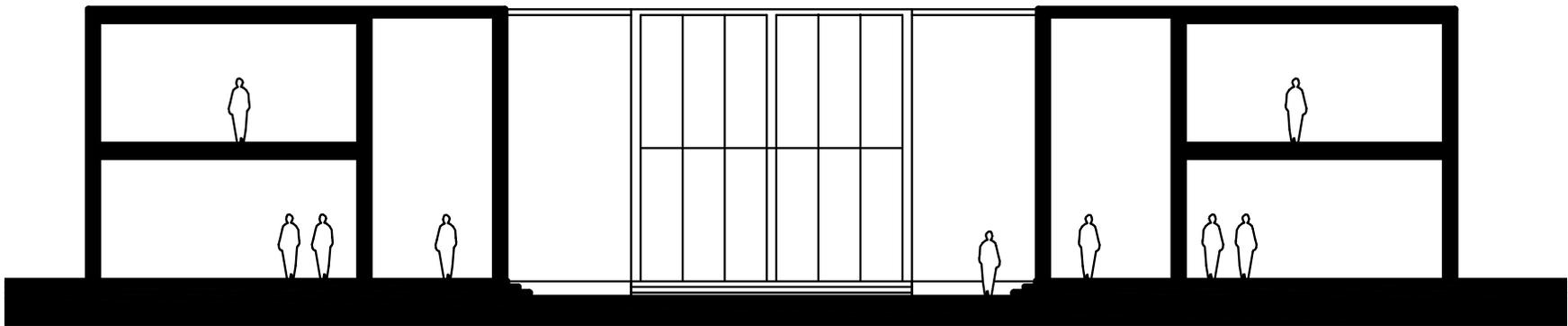
SECTION A

SECTION B

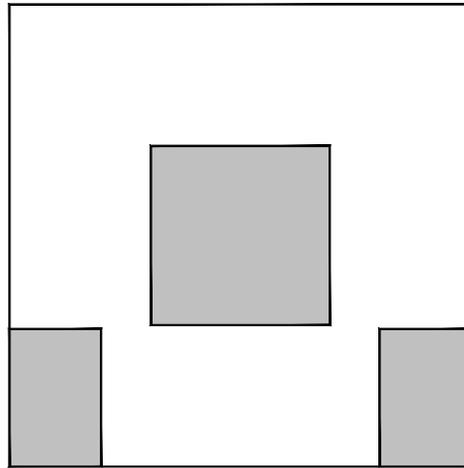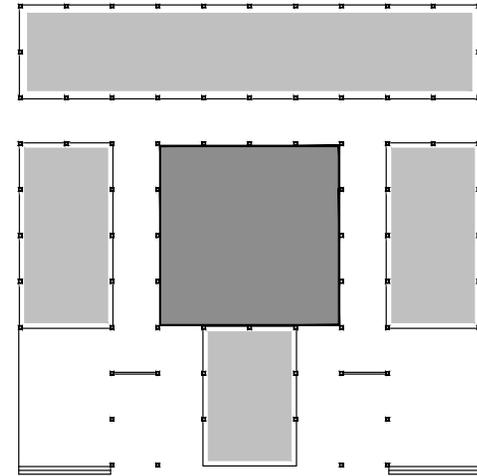HIERARCHY
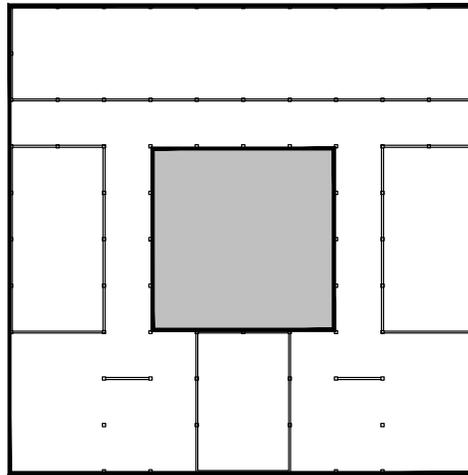
SPATIAL RELATION-
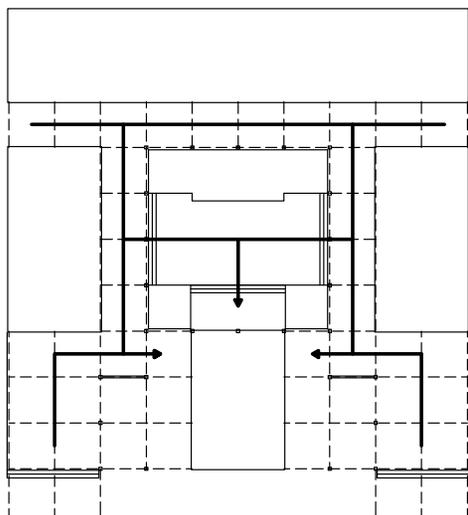SHIP (SPACE WITHIN)
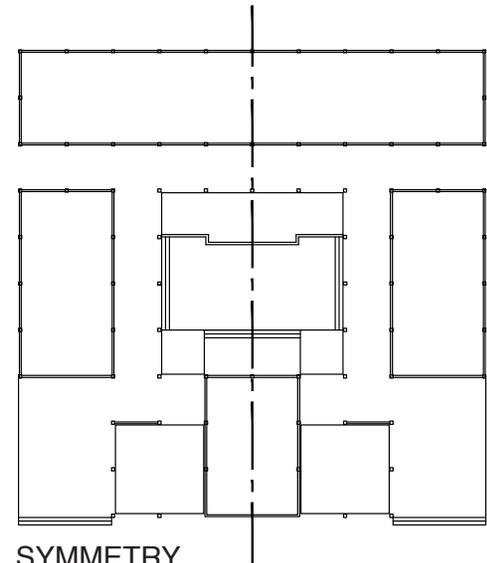
SYMMETRY
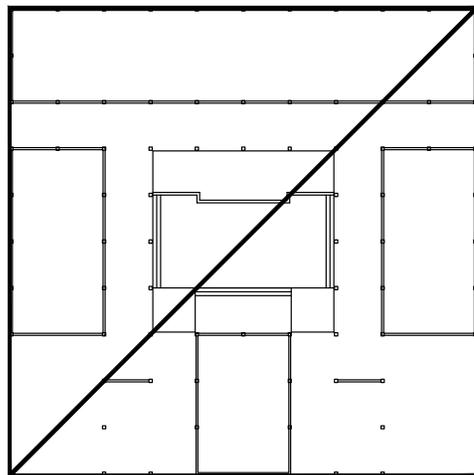
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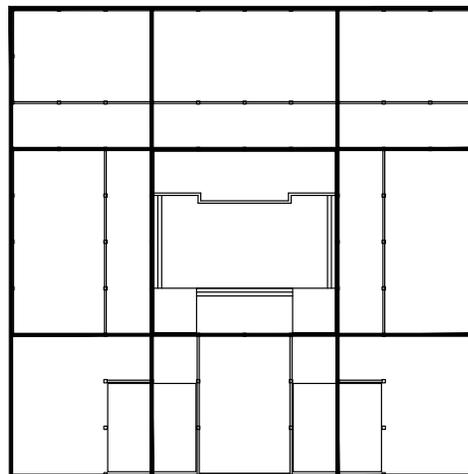
NINE-SQUARE

DOUBLE CENTER
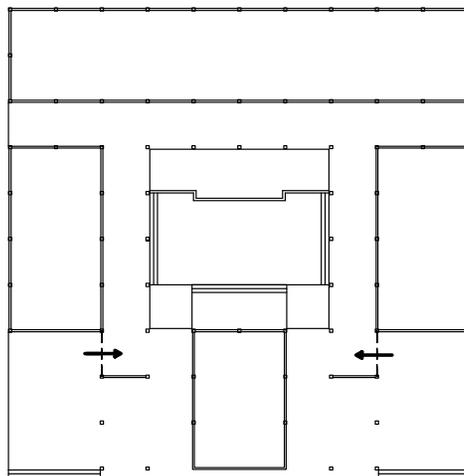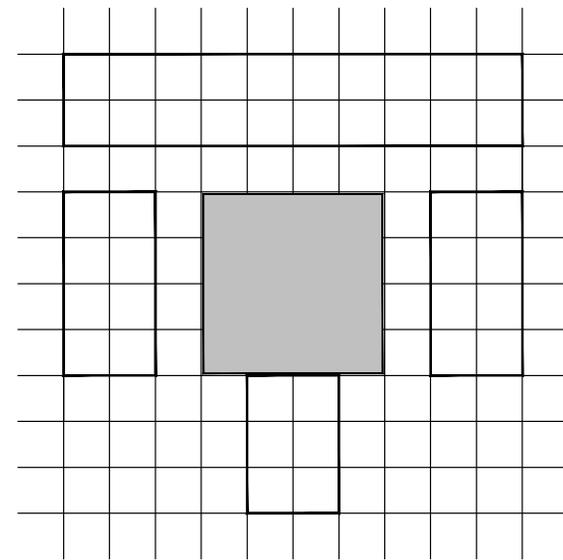
PATH-SPACE
RELATIONSHIP

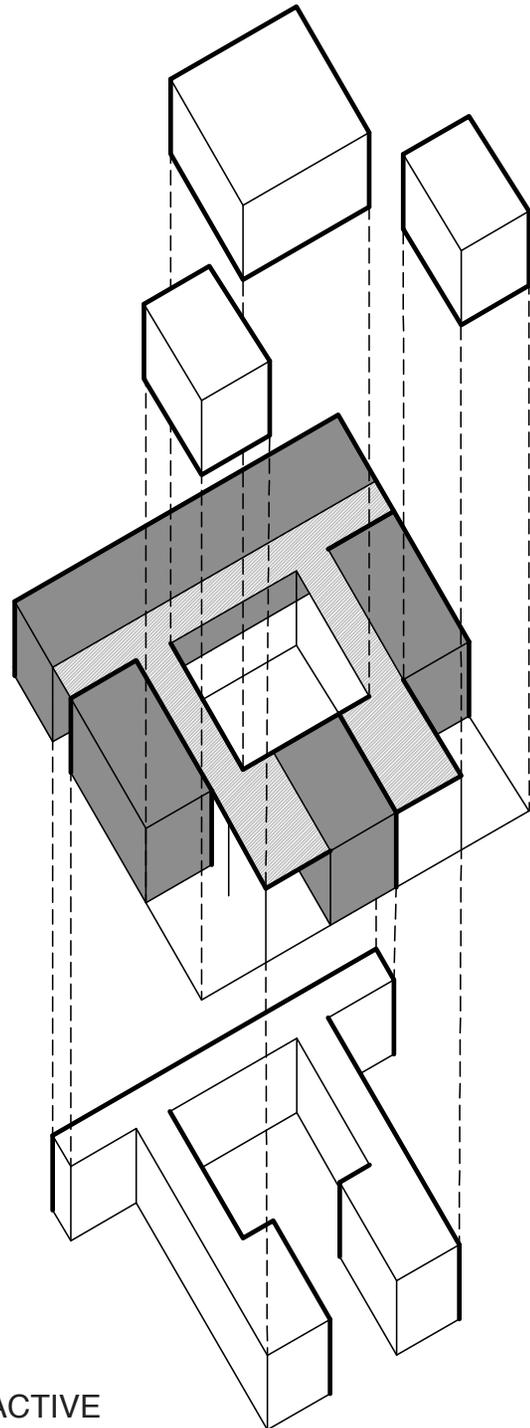

SUBTRACTIVE

REPETITIVE TO
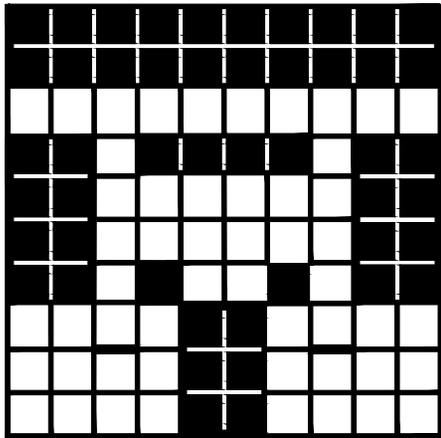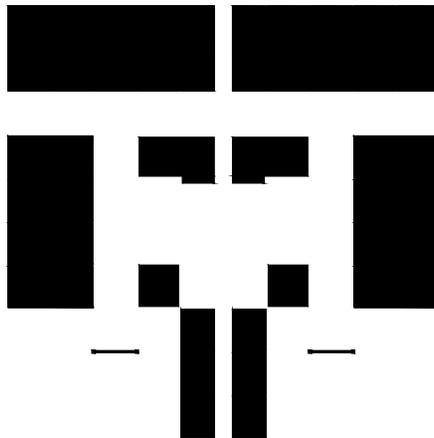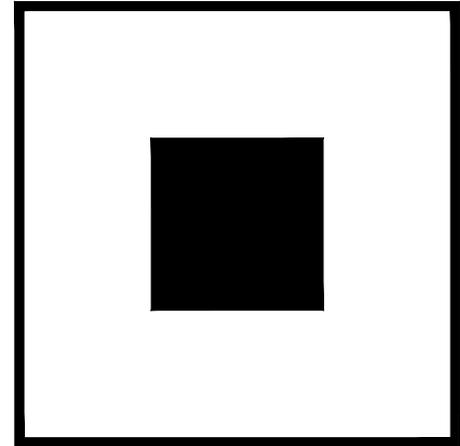UNIQUE

CONFIGURATION OF
THE PATH (GRID)

ENTRANCE

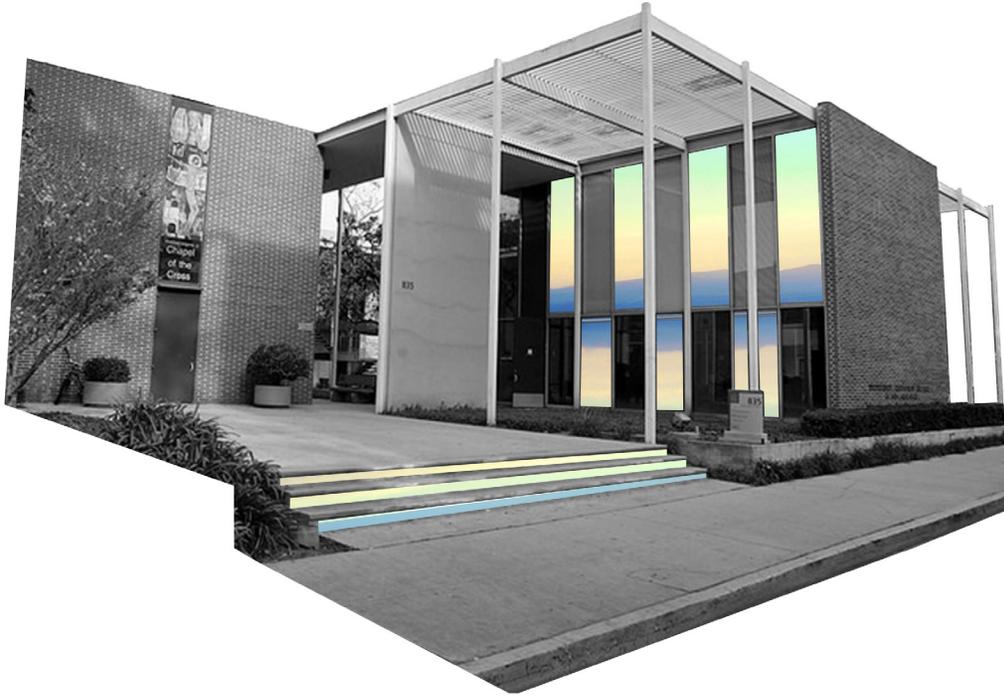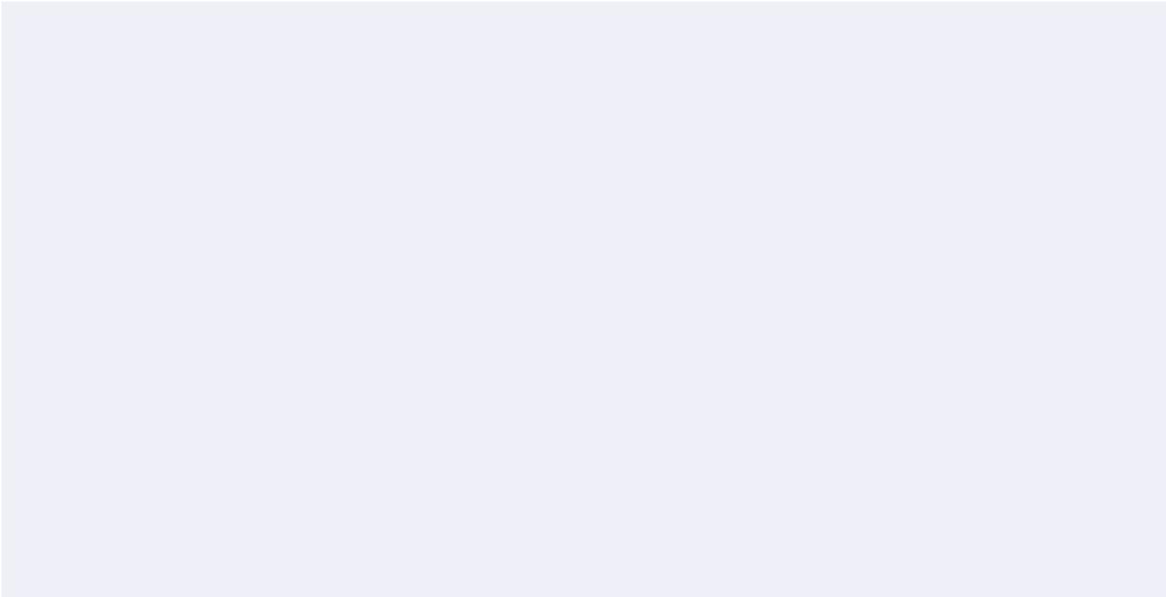SPATIAL
ORGANIZATION

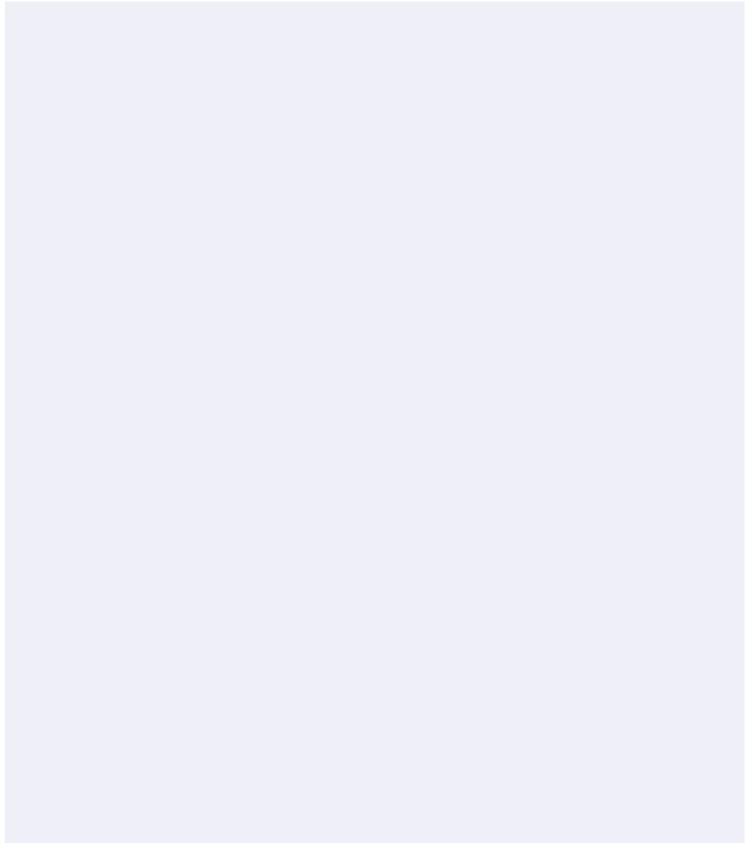EXPANDED SUBTRACTIVE

figure fields

GRID

SYMMETRY

HIERARCHY

NEGATIVE SPACE COLLAGE

ADAPTIVE COLLAGE

project two
## USC Leonard Davis School of Gerontology

Focusing on the USC Leonard Davis School of Gerontology, this independent study project sought to tell the story of the design as well as capture how people would interact with the structure. I examined the building through the lens of a number of architectural principles, including u-shaped plane, symmetry, 9-square, subtractive, grid, repetition/rhythm, configuration of the path, spatial organization. As with the previous project, I explored these concepts through both 2D diagrams and 3D models using tools such as AutoCad and Illustrator.

USC ETHEL PERCY ANDRUS GERONTOLOGY CENTER
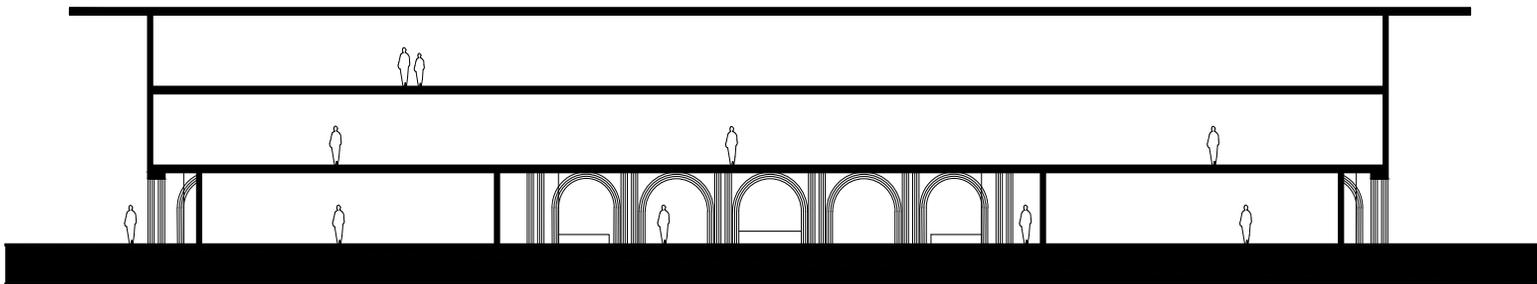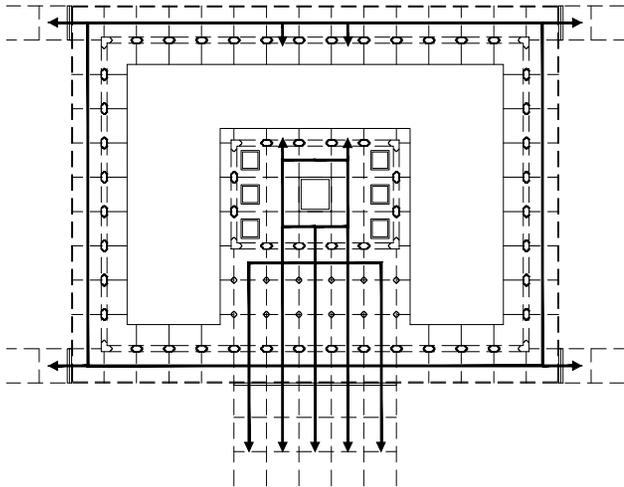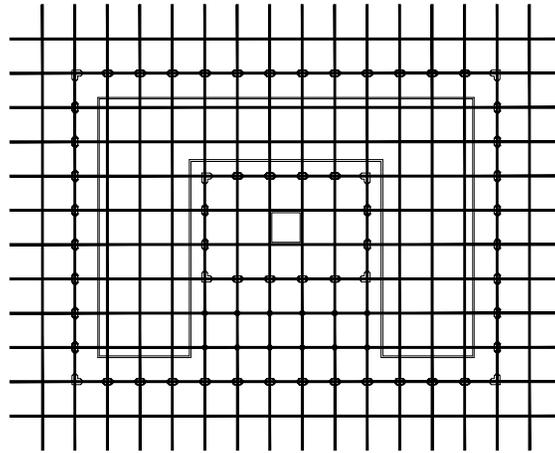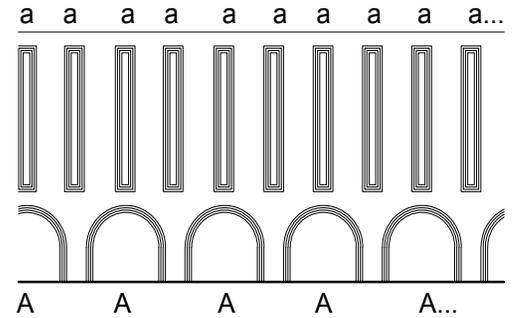EDWARD DURELL STONE
LOS ANGELES, CALIFORNIA
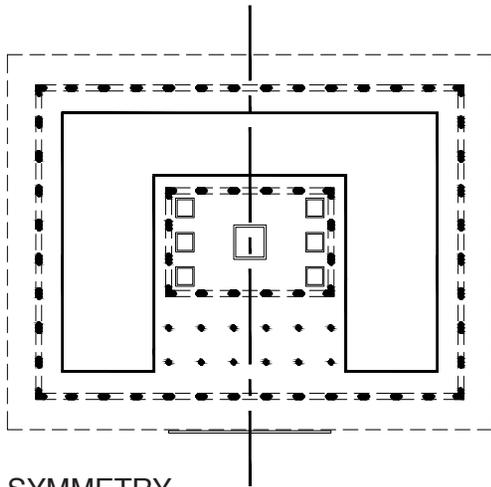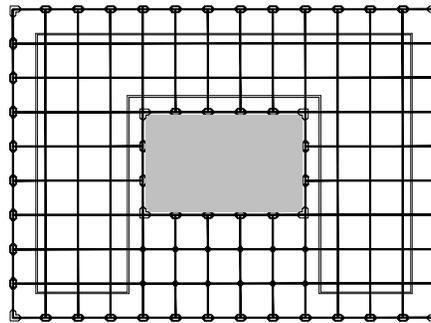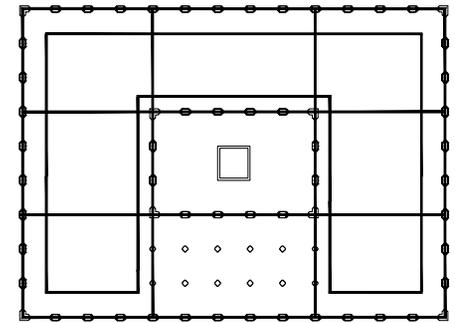1964

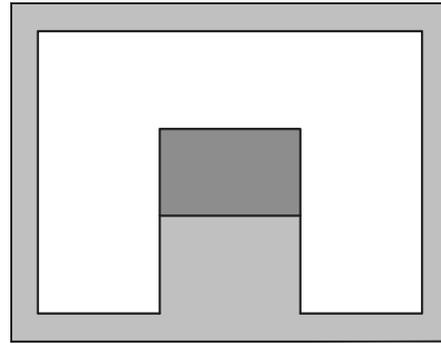FLOOR PLAN
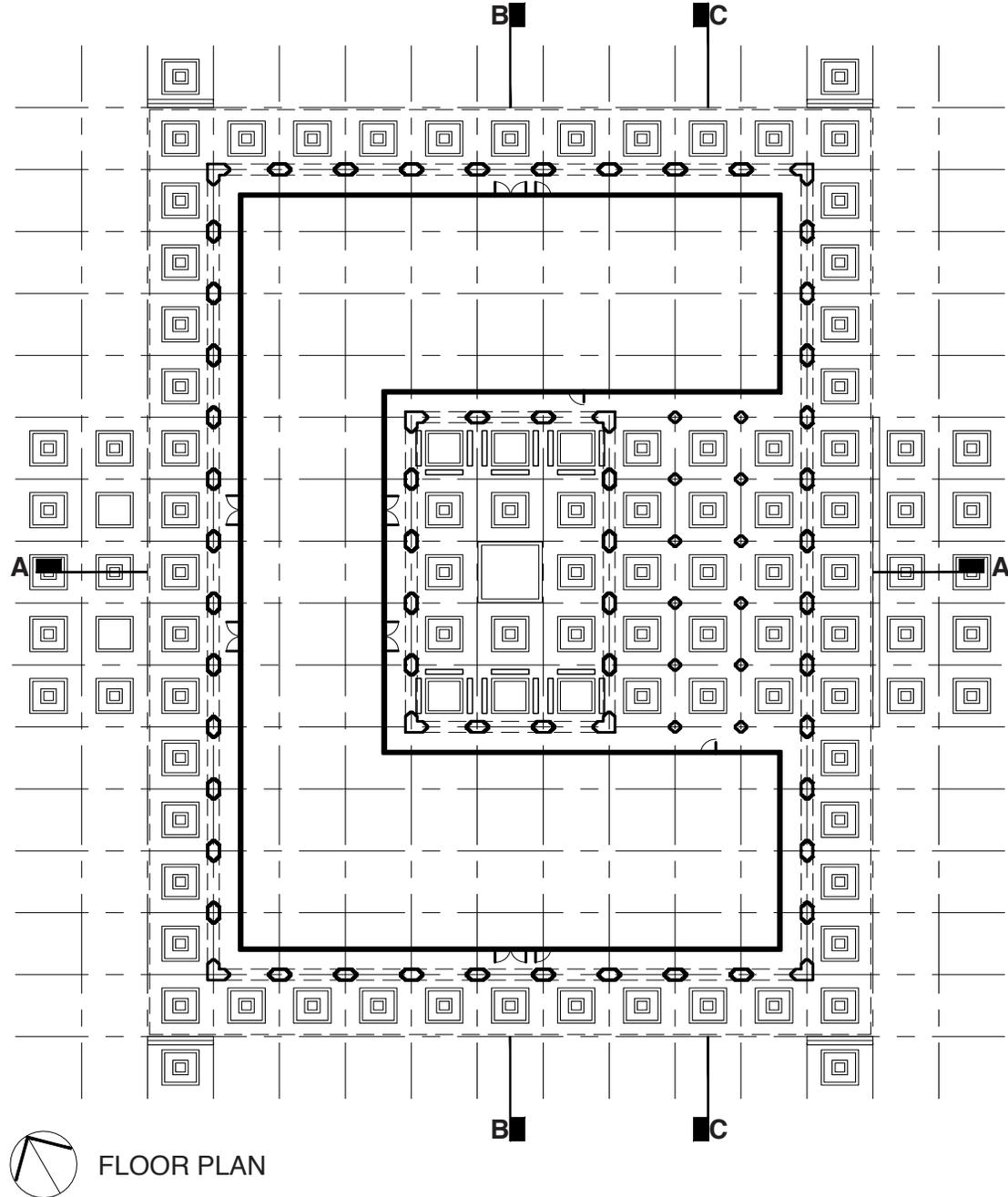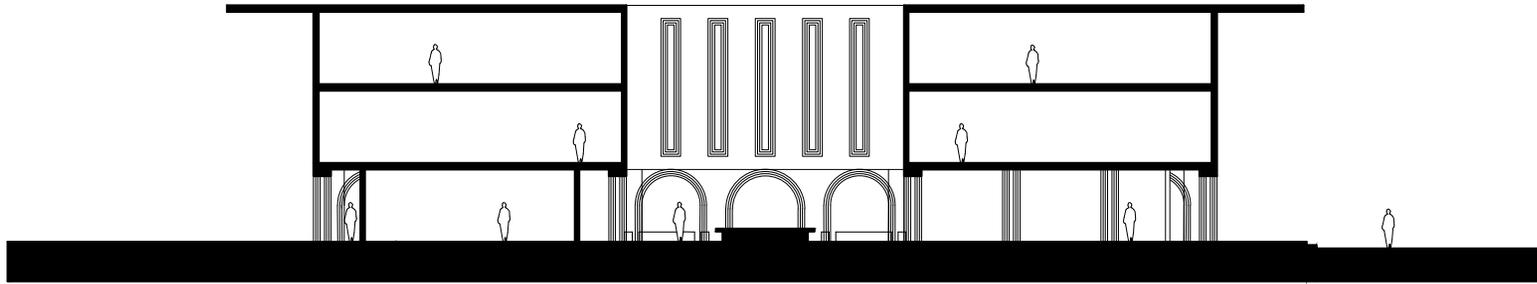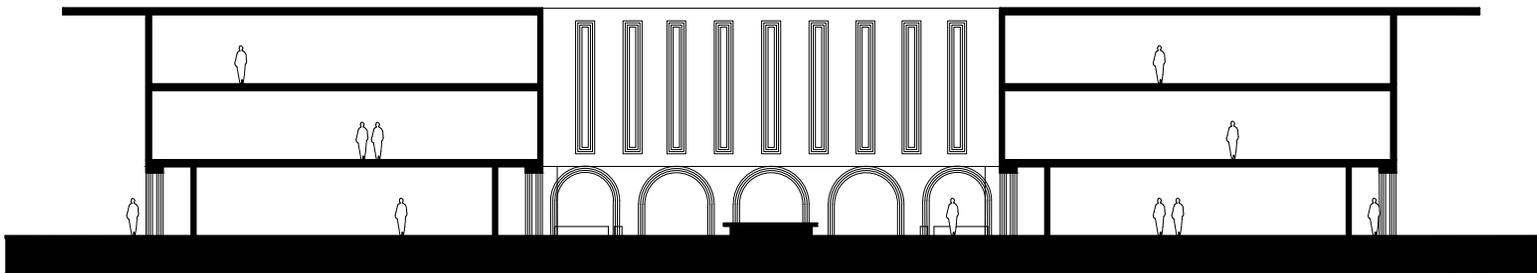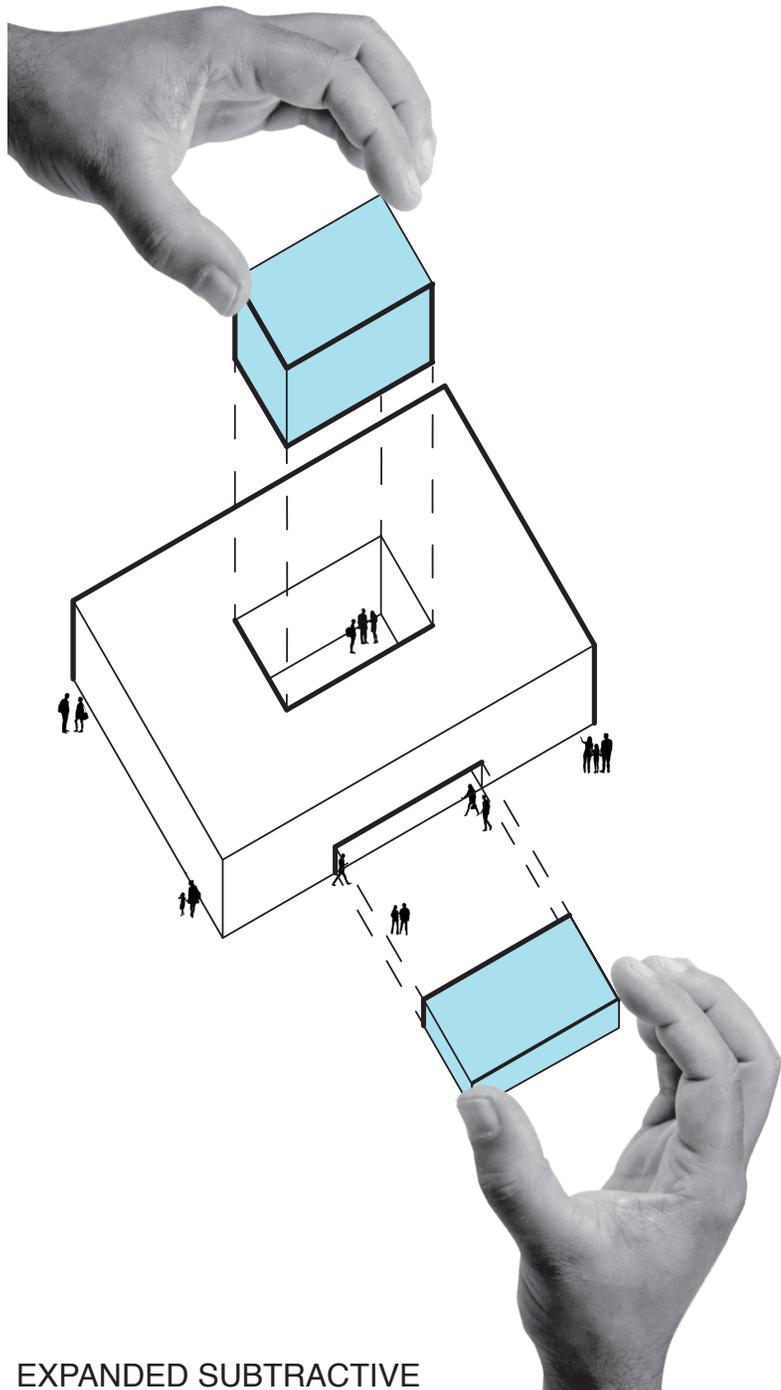
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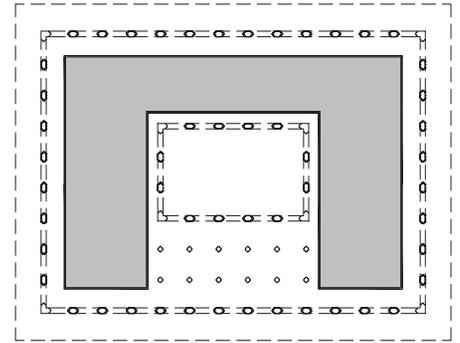
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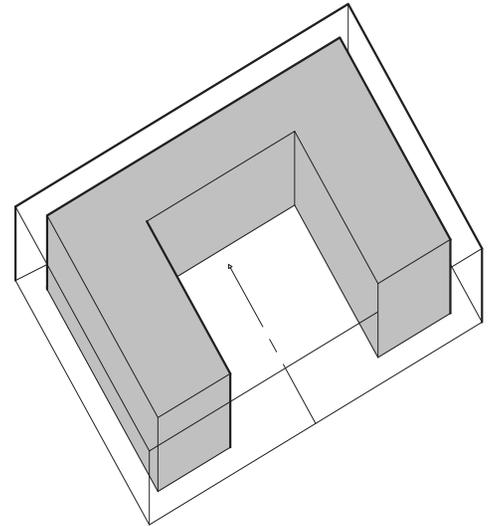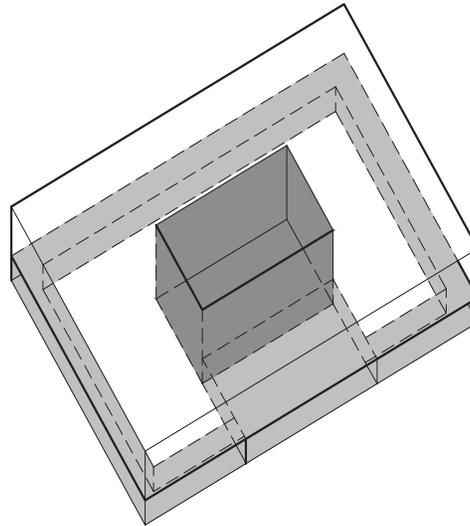
CONFIGURATION OF
THE PATH (GRID)

GRID

REPETITION AND
RHYTHM

SYMMETRY

SPATIAL
ORGANIZATION

NINE-SQUARE

EXPANDED SUBTRACTIVE

SUBTRACTIVE

U-SHAPE