

5 PRINCIPIOS Y 3 ESPACIOS ORDENADORES

Porque un proyecto arquitectónico  
debe tener un orden....

El orden arquitectónico surge de la necesidad de fijar una relación entre cada una de las partes del edificio y el todo.

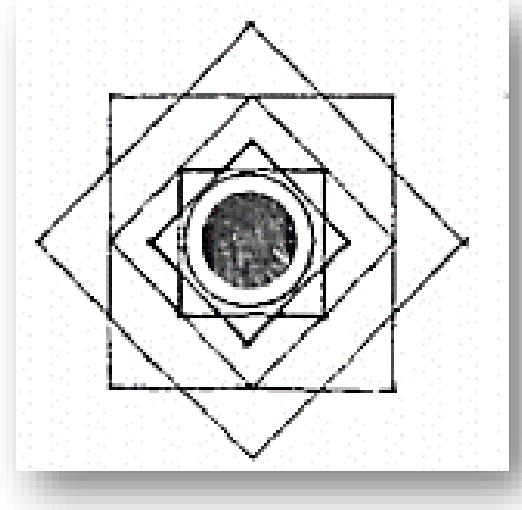
- A. Orden Espacial
- B. Orden Geométrico
- C. Orden Estructural
- D. Orden Circulatorio

# **PRINCIPIOS ORDENADORES**

**5**

**CENTRAL  
LINEAL  
RADIAL  
MACLA  
TRAMA**

# CENTRAL



# CENTRAL

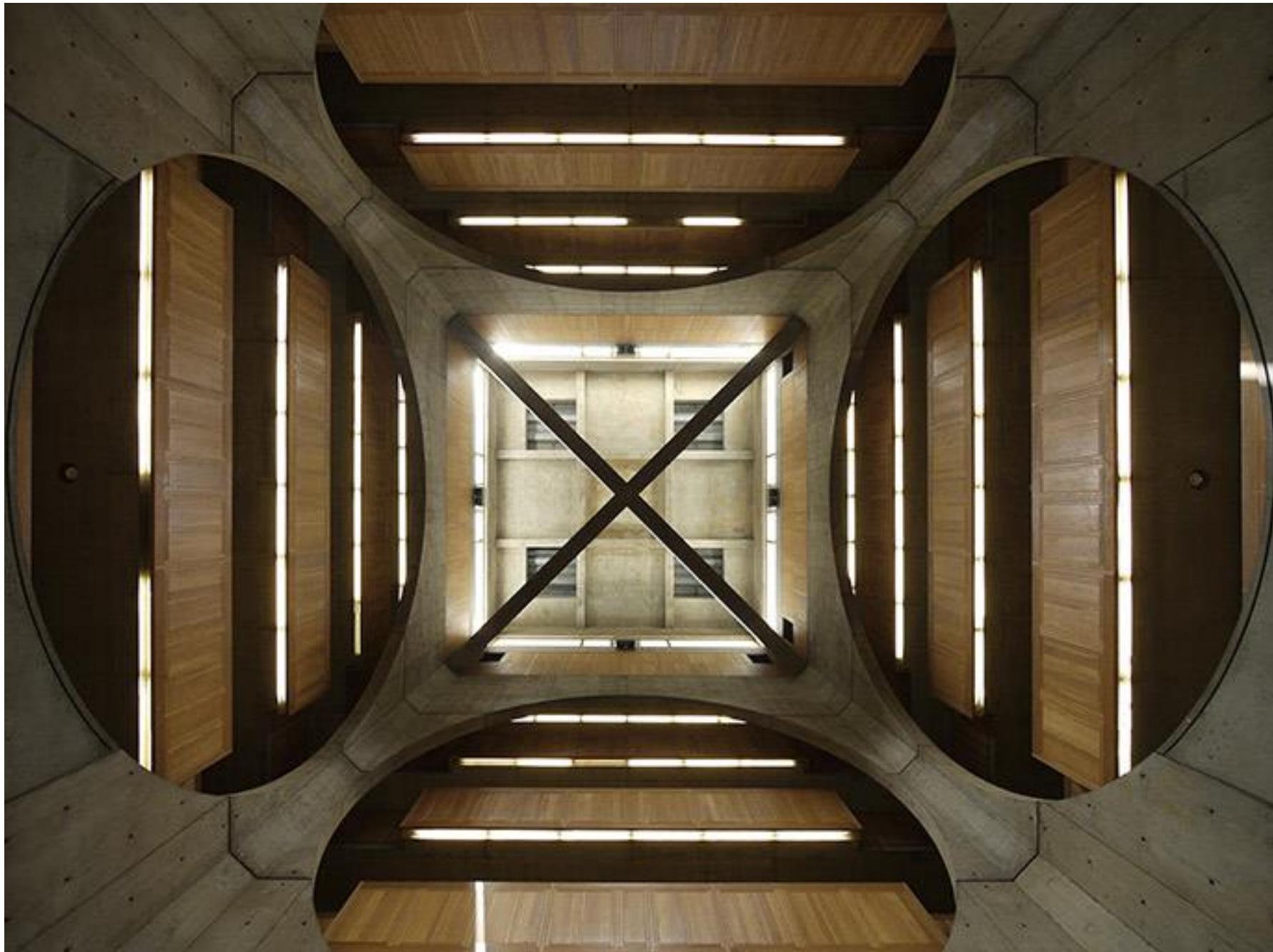
Habla de un lugar dominante respecto a los espacios secundarios que se agrupan alrededor.

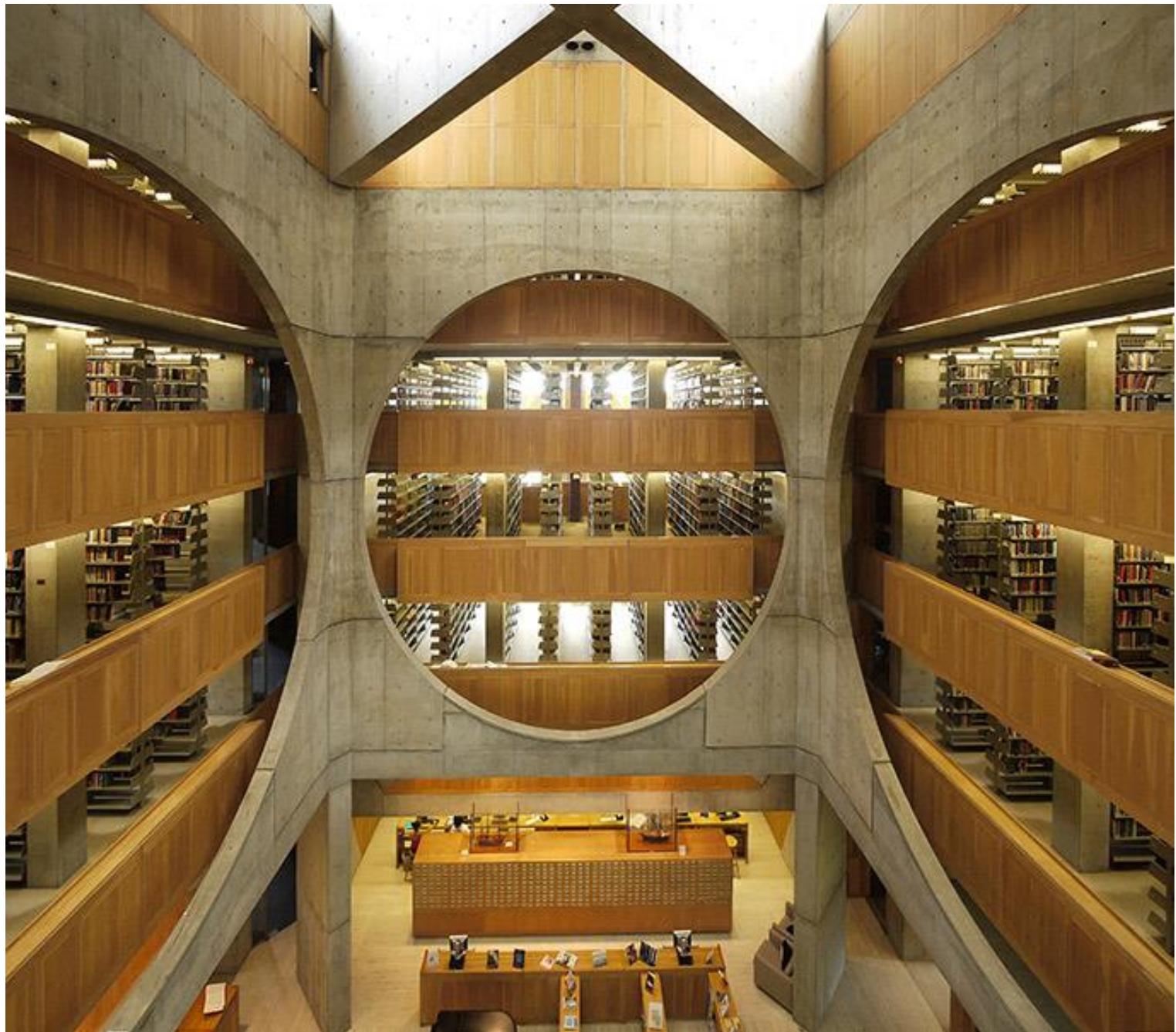
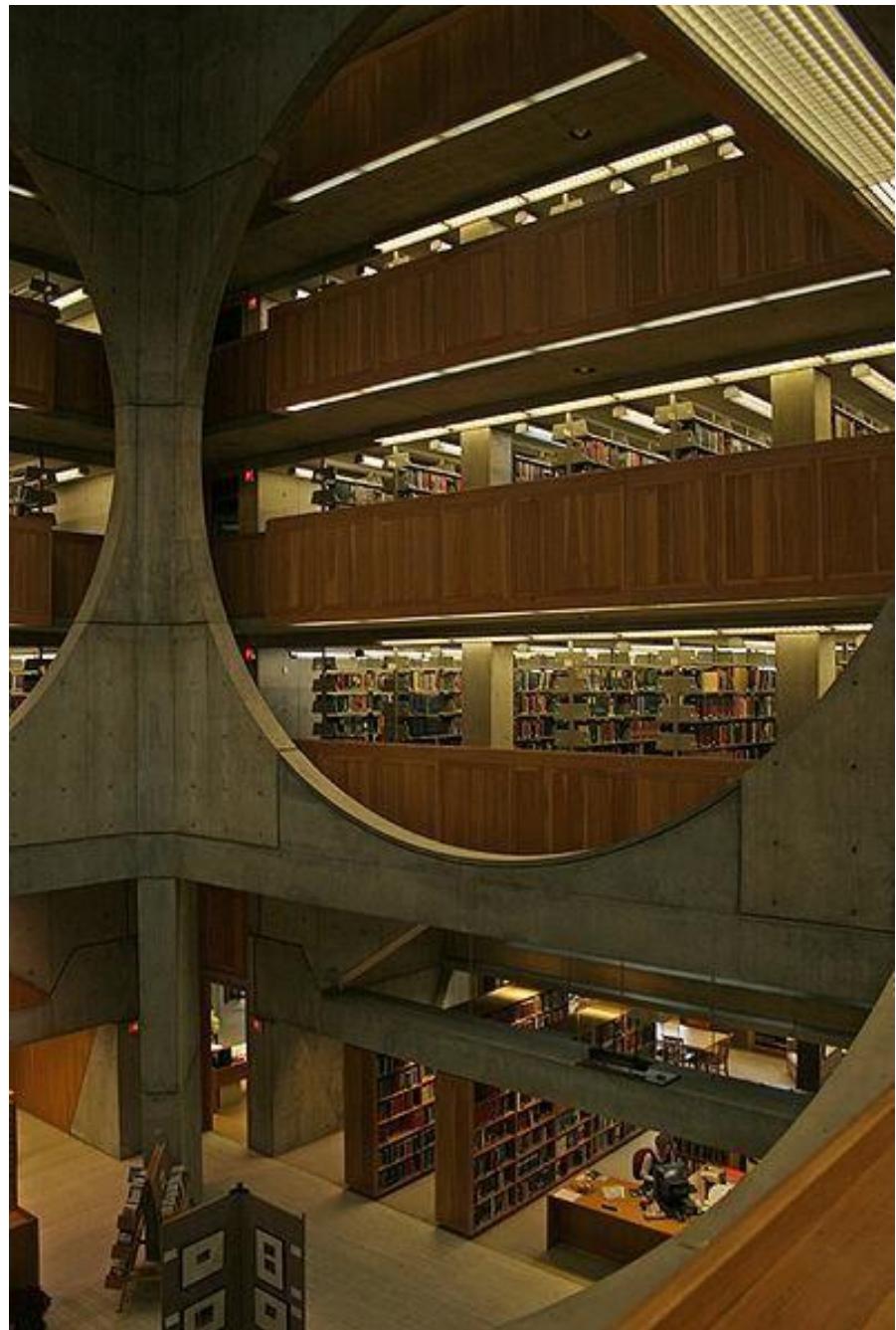
## ORGANIZACIÓN CENTRALIZADA

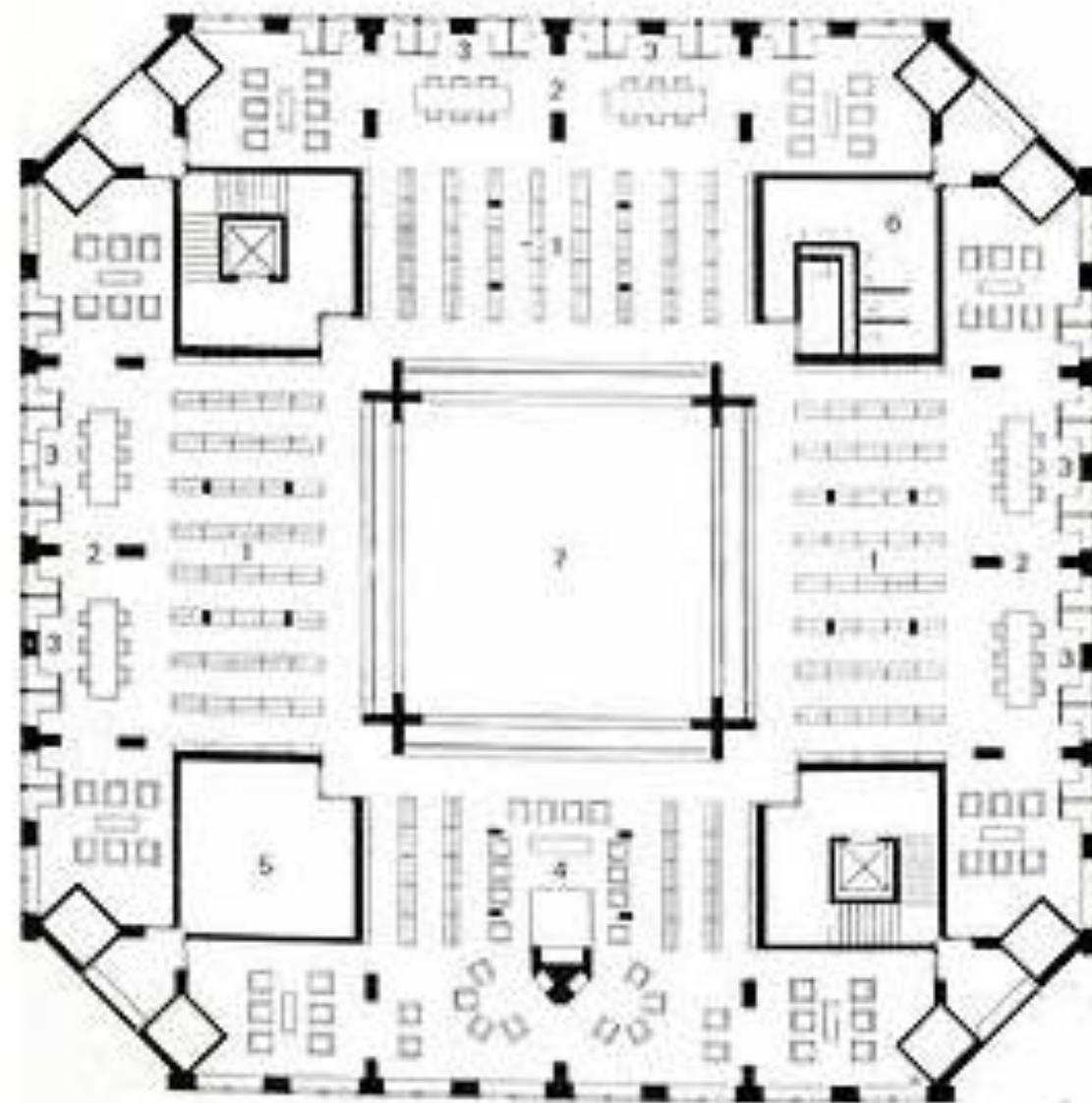
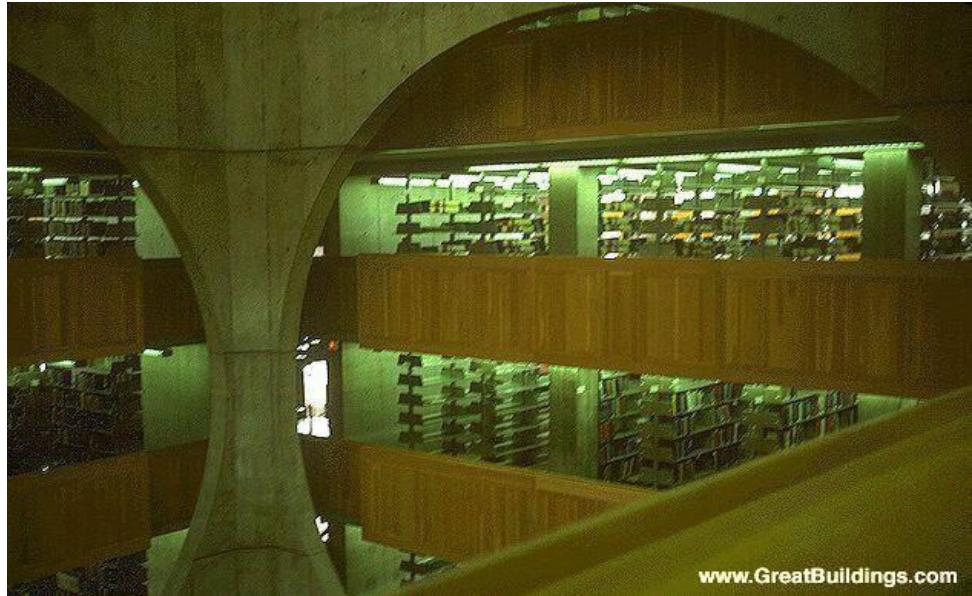
Una organización centralizada es una composición estable y concentrada, compuesta de numerosos espacios secundarios que se agrupan en torno a uno central, dominante y de menor tamaño.

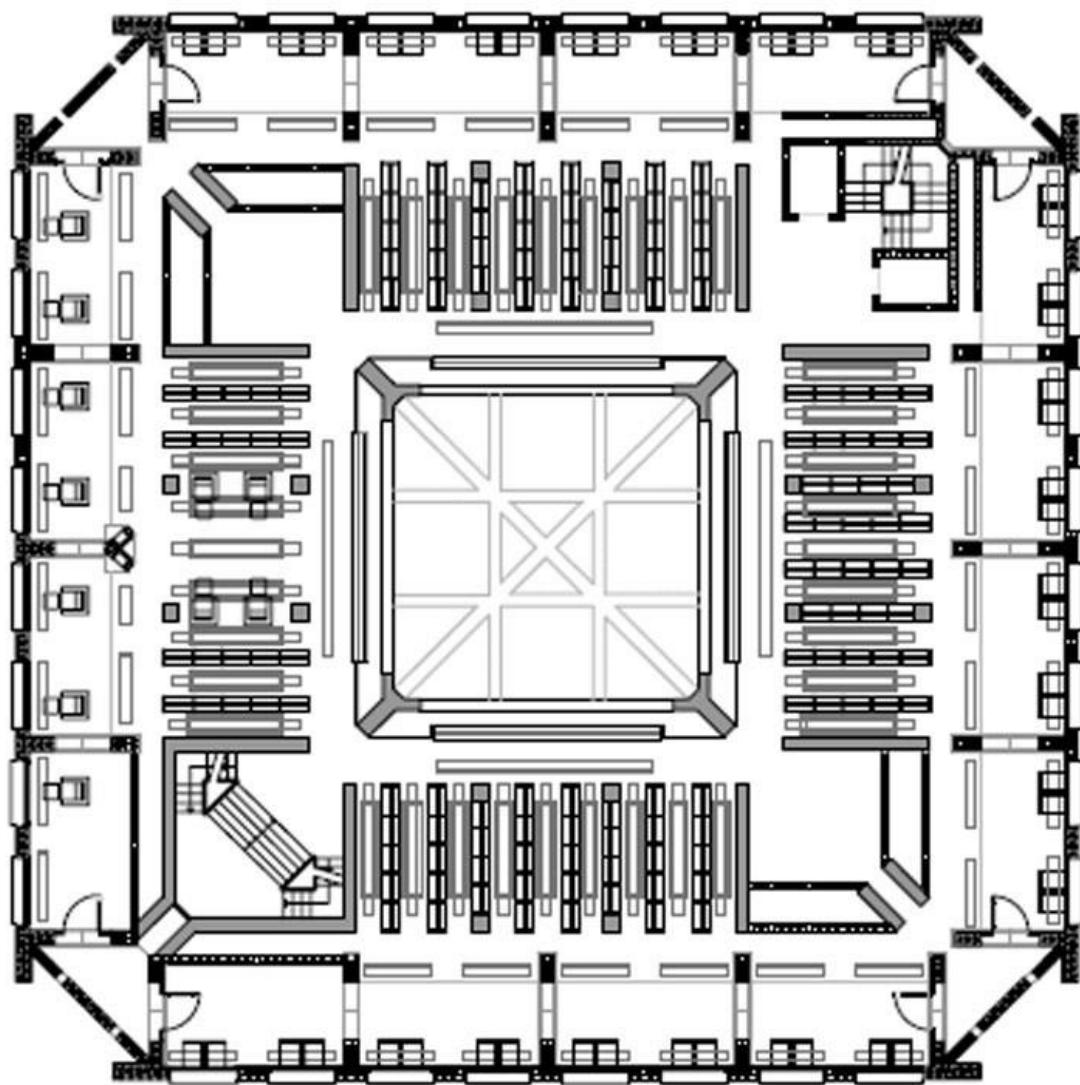
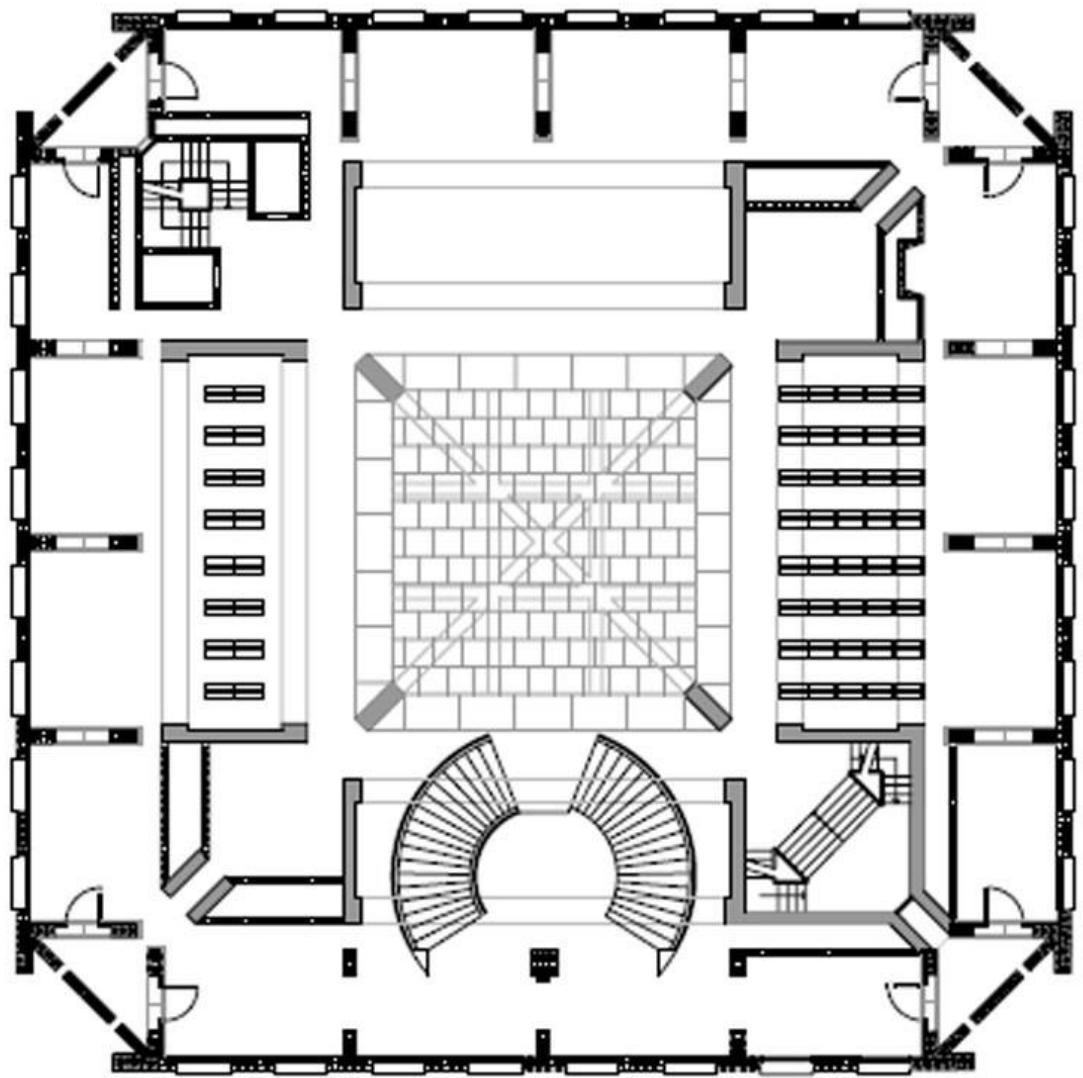
El espacio central y unificador de la organización generalmente es de forma regular y de dimensiones suficientemente grandes que permitan reunir a su alrededor los espacios secundarios

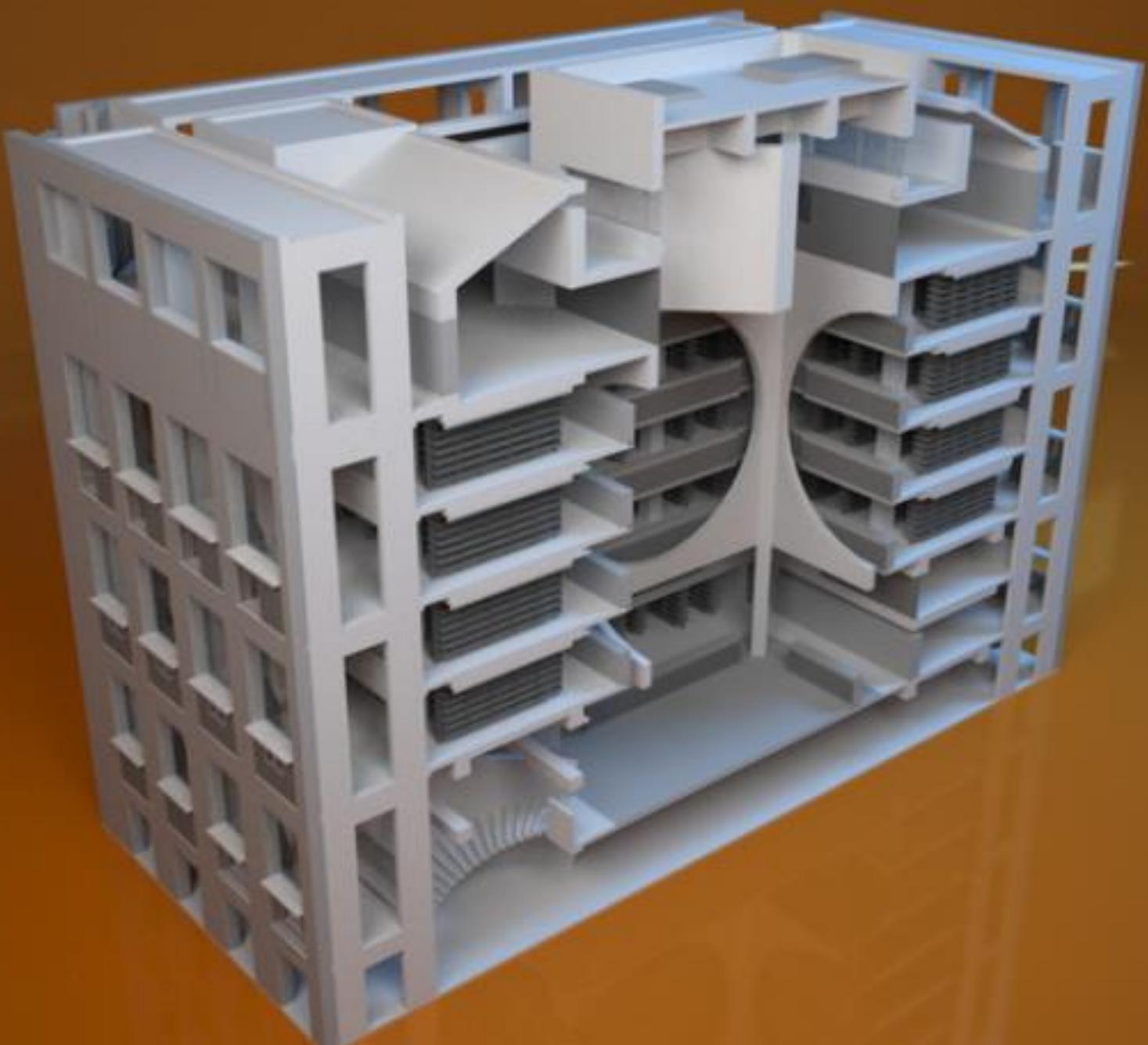
**BIBLIOTECA ACADEMIA  
EXETER**  
NEW HAMPSHIRE  
LOUIS KAHN  
1972

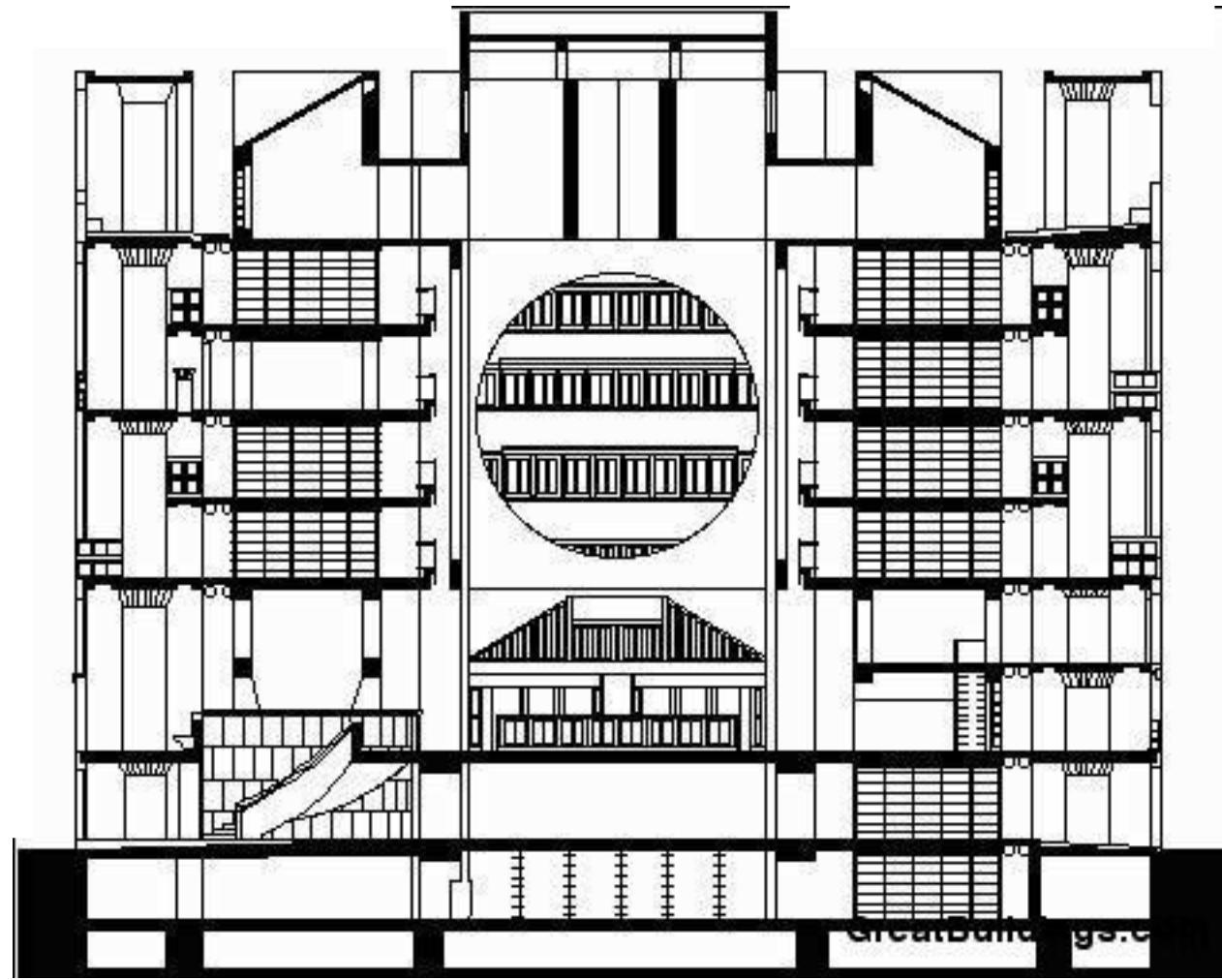


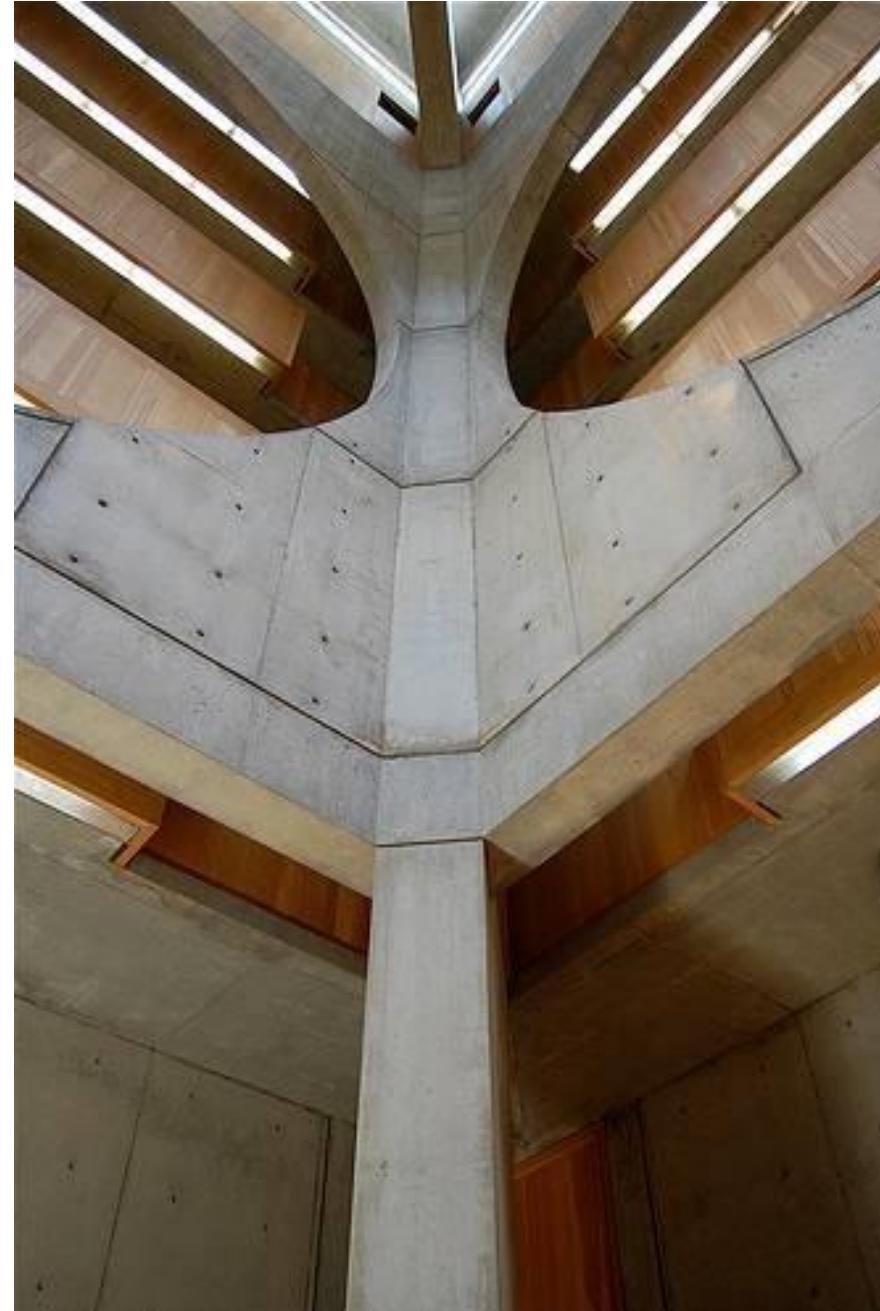












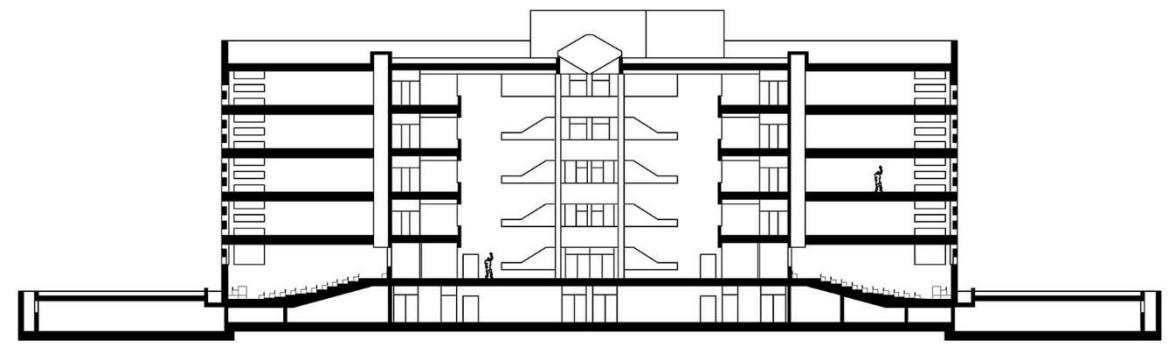
# **FACULTAD DE BIOLOGIA Y BIOMEDICINA,**

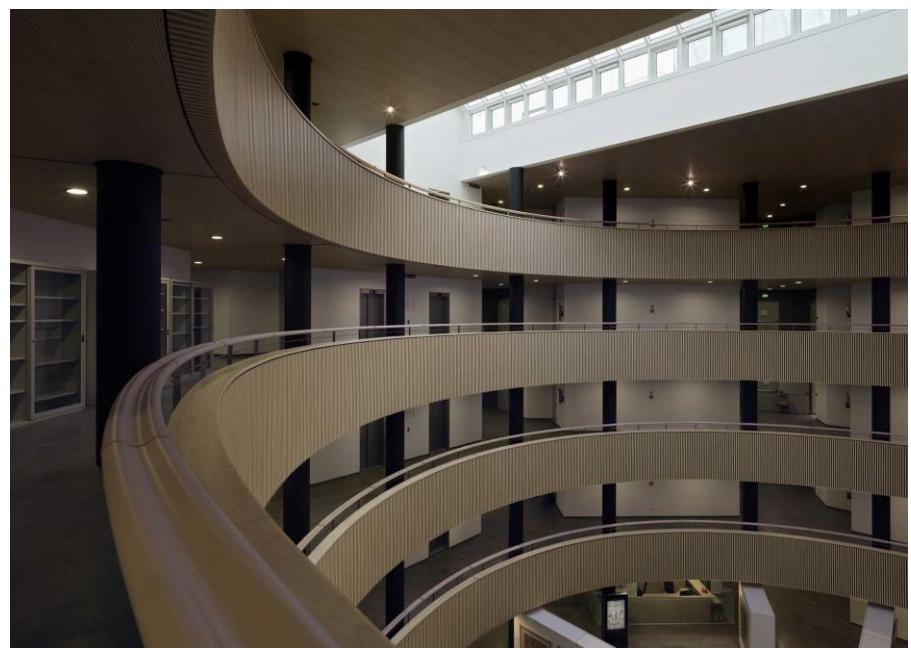
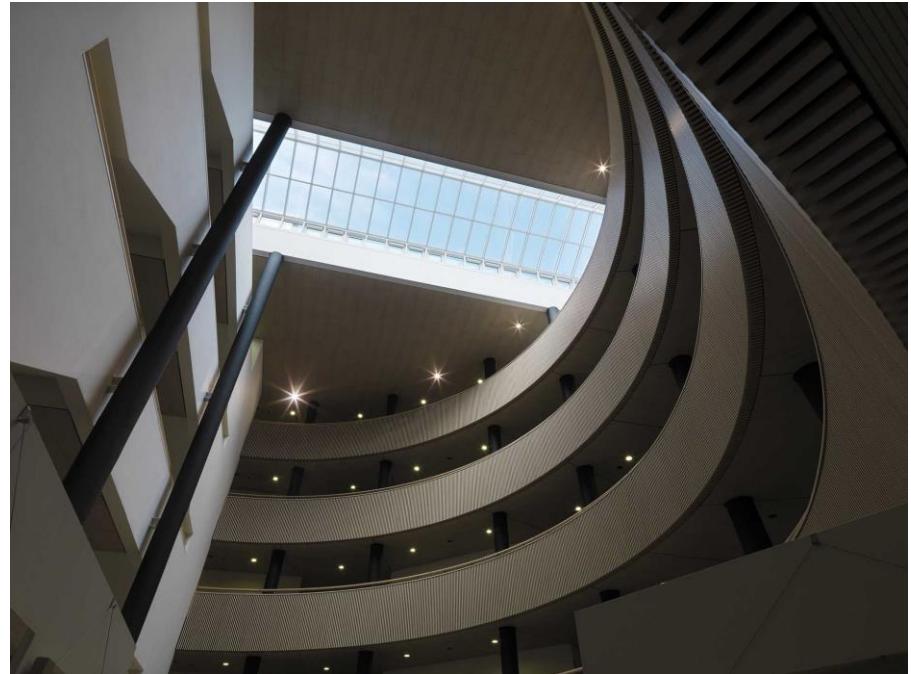
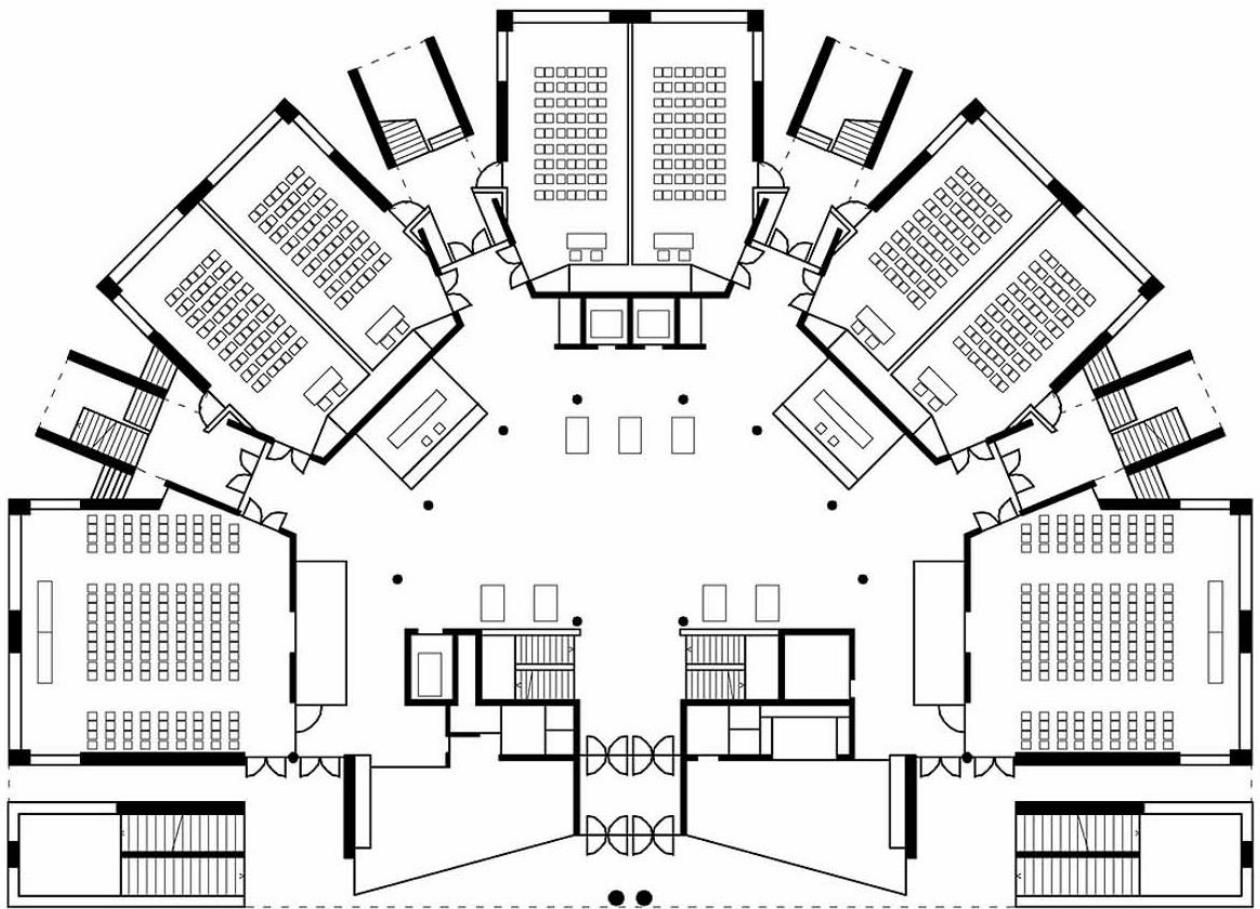
UNIVERSIDAD DE PADUA, ITALIA,

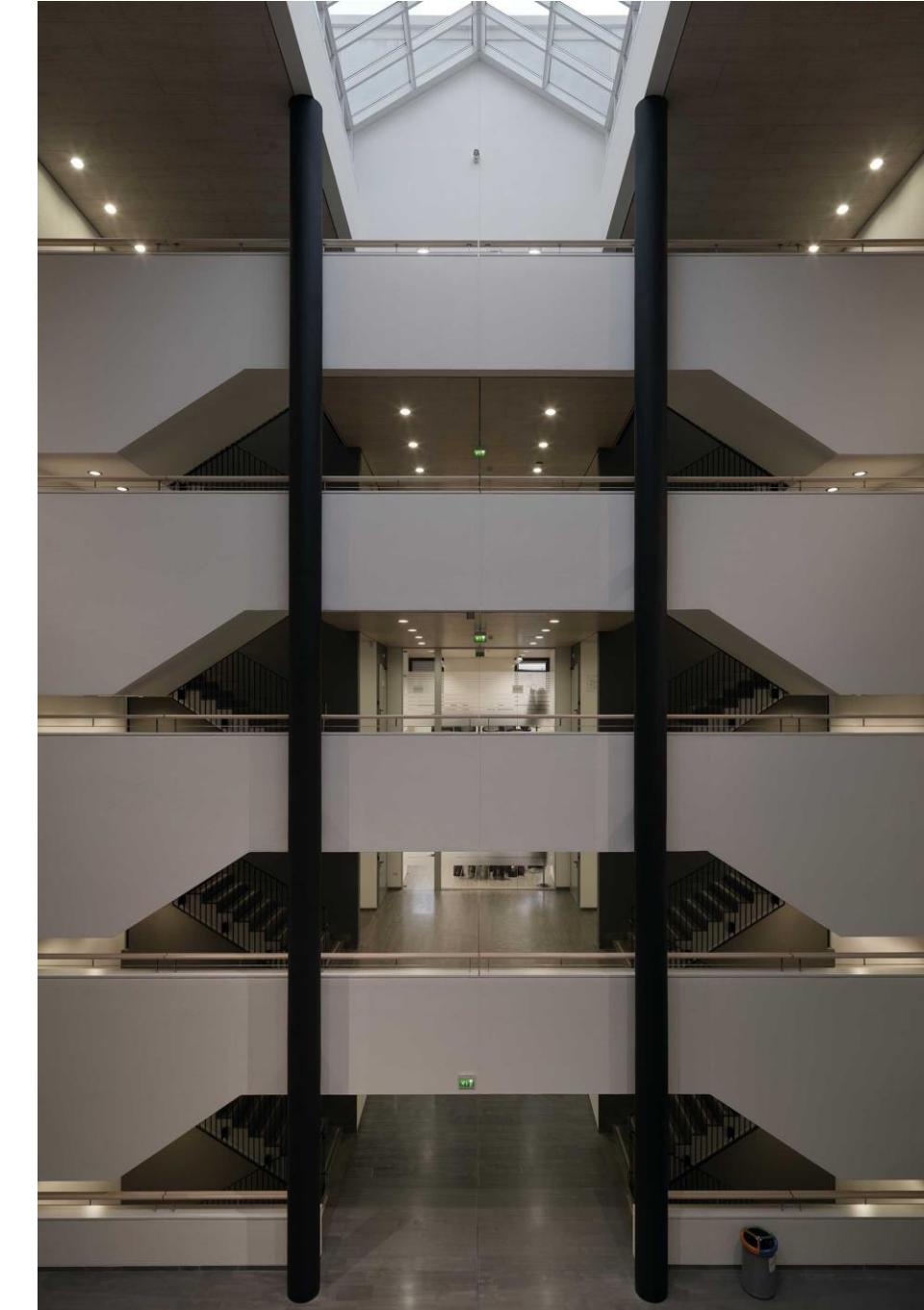
ARQ. MARIO BOTTA,

2014

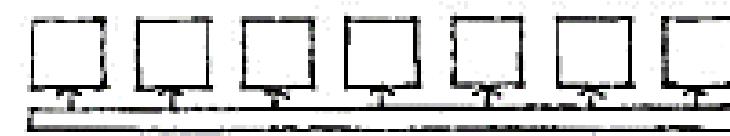








# LINEAL



## LINEAL

La ordenación lineal introduce una dirección, secuencia o repetición. En la multiplicación de series de mehnires, no solo genera una direccionalidad, direcciona todo un ámbito espacial geometrizado.

### ORGANIZACIÓN LINEAL

Una organización lineal es esencialmente una serie de espacios. Estos espacios pueden estar interrelacionados directamente, o bien estar enlazados por otro espacio lineal independiente y distinto.

**Una organización lineal suele estar compuesta por unos espacios repetidos que son similares en tamaño, forma y función.** Cambien puede consistir en un espacio lineal que a lo largo de su longitud distribuye un conjunto de espacios de diferente tamaño, forma o función, En ambos casos, cada uno de los espacios tiene una exposición al exterior.

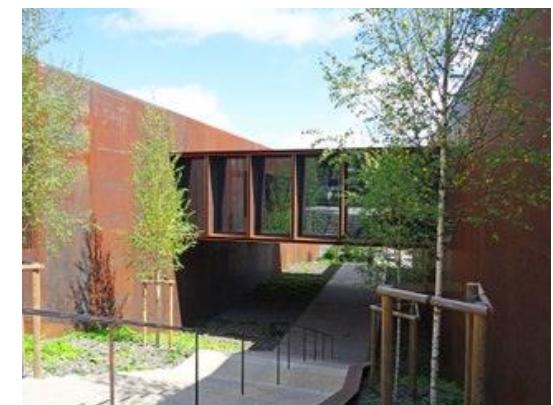
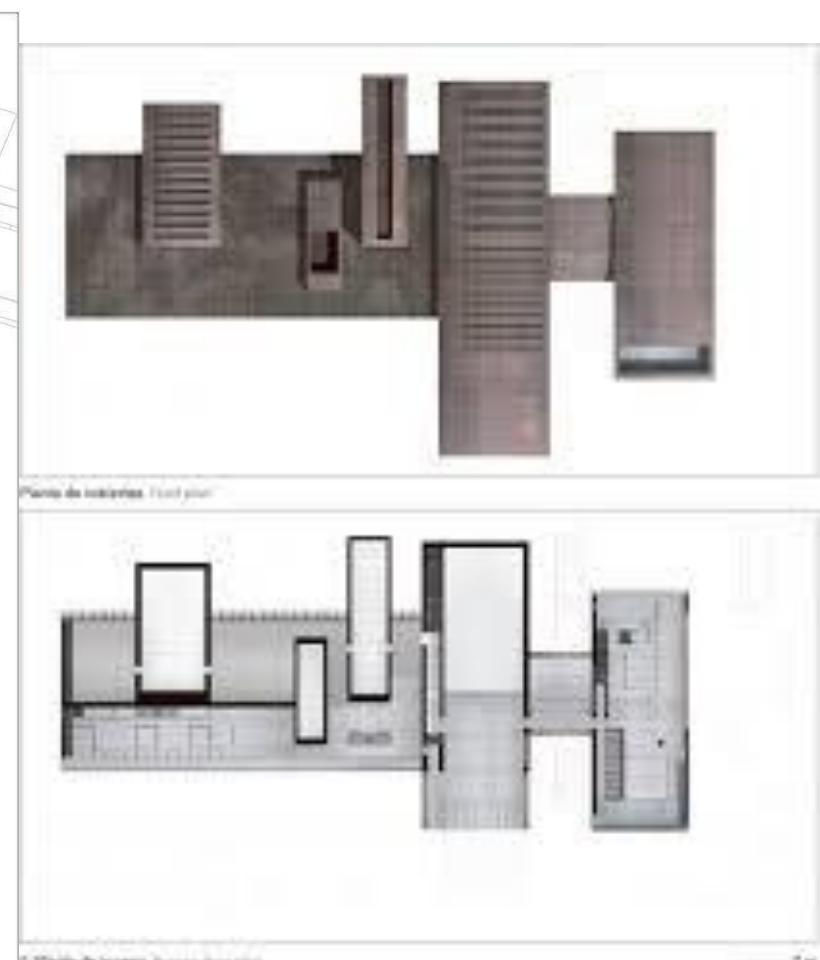
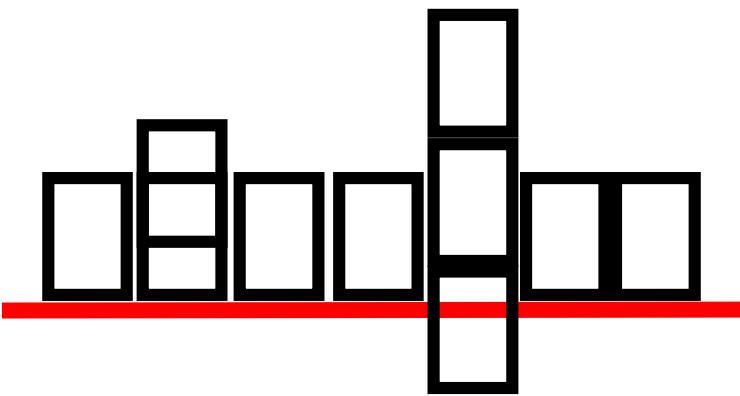
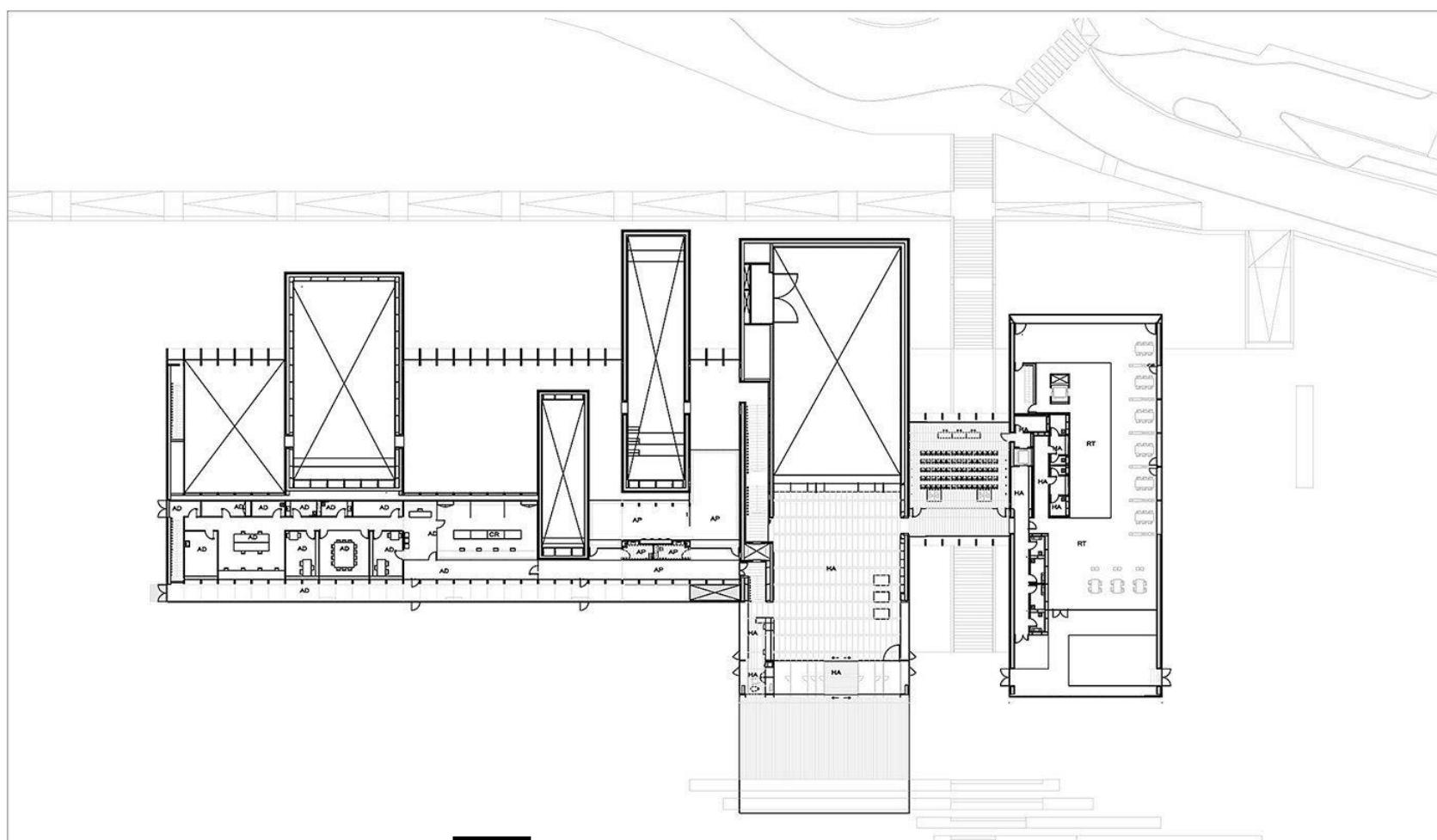
# MUSEO SOULAGEE ROUDEZ - FRANCIA

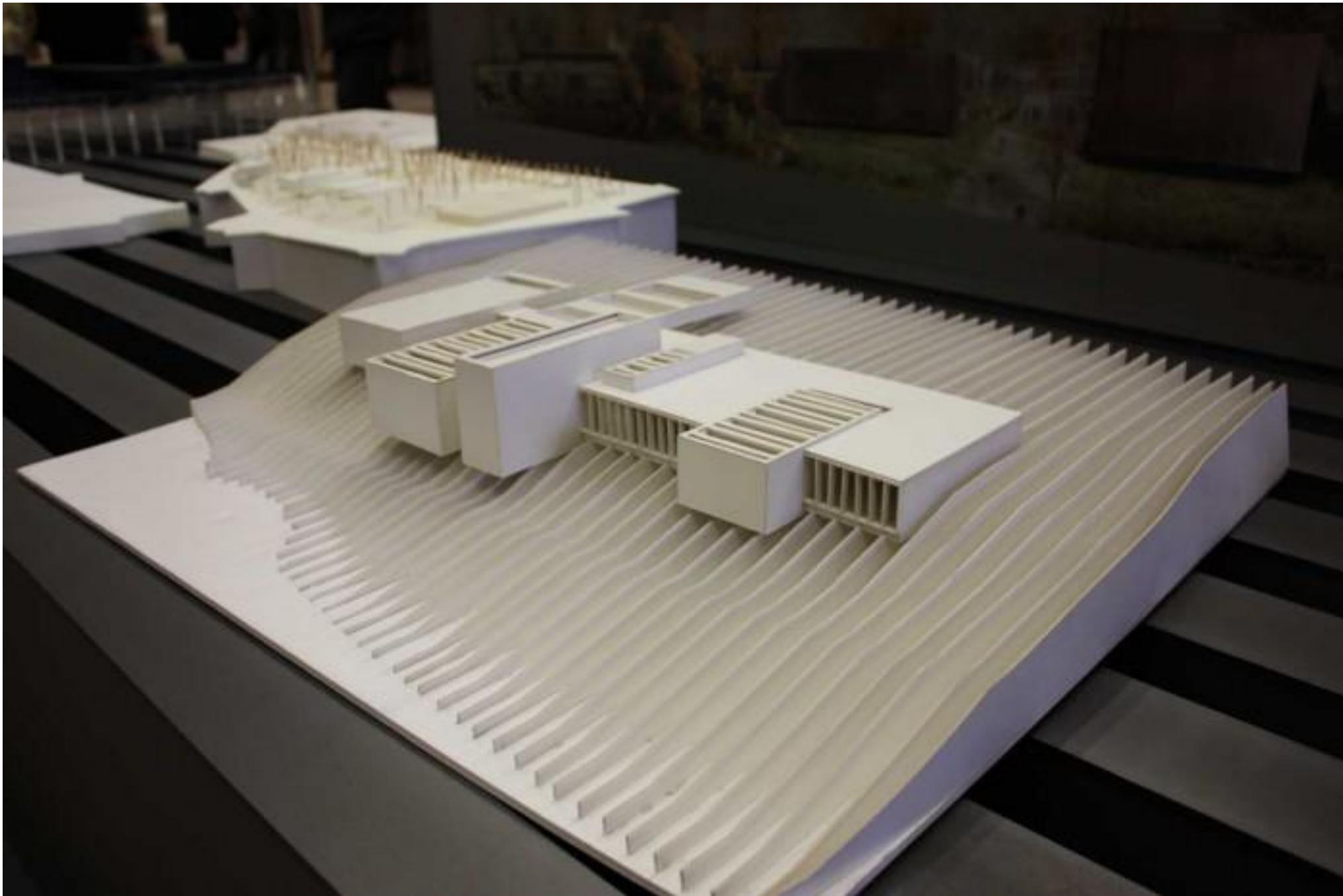
RCR ARQUITECTOS



N









# CASA 10

Esta es la casa de John Hejduk 10 de 1966, también publicado en Cinco Arquitectos. Observe el uso de la proyección frontal isométrica, una técnica de firma de representación en gran parte de sus primeros trabajos.

Un extracto del texto que lo acompaña:

## IDEA-CONCEPTO

Extensión horizontal

Hipotenusa

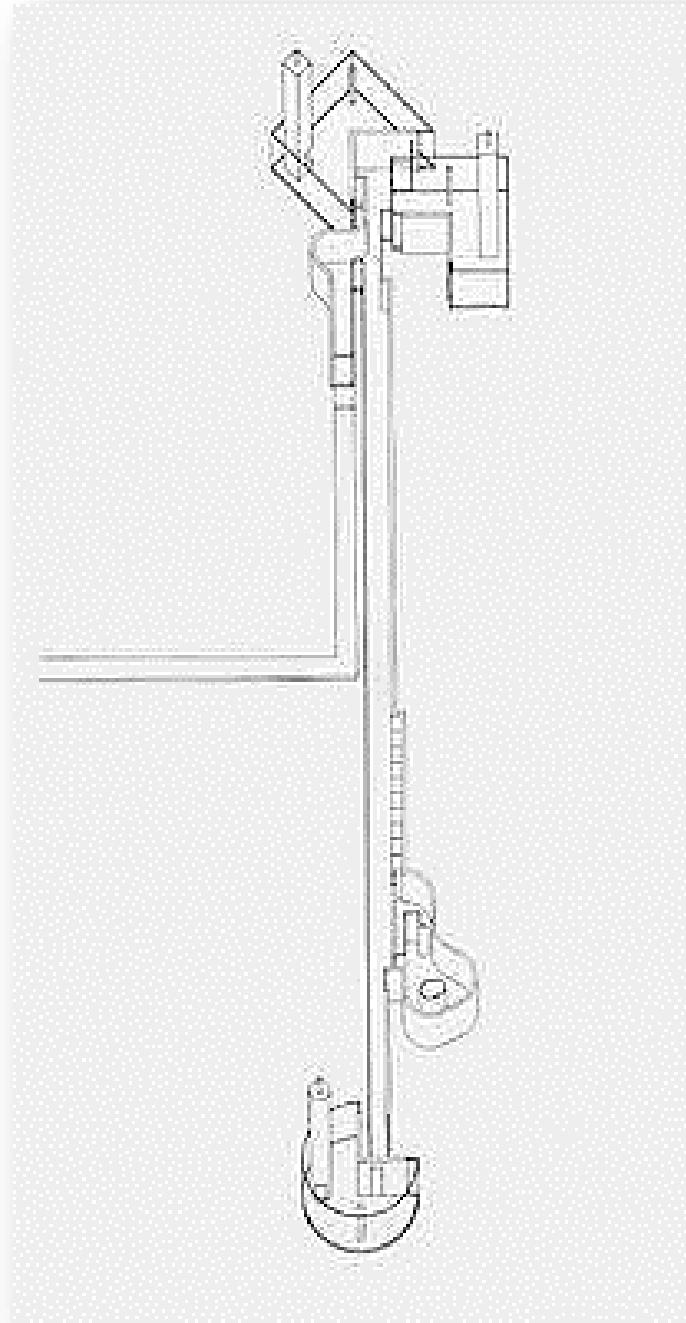
La figura de tres cuartos

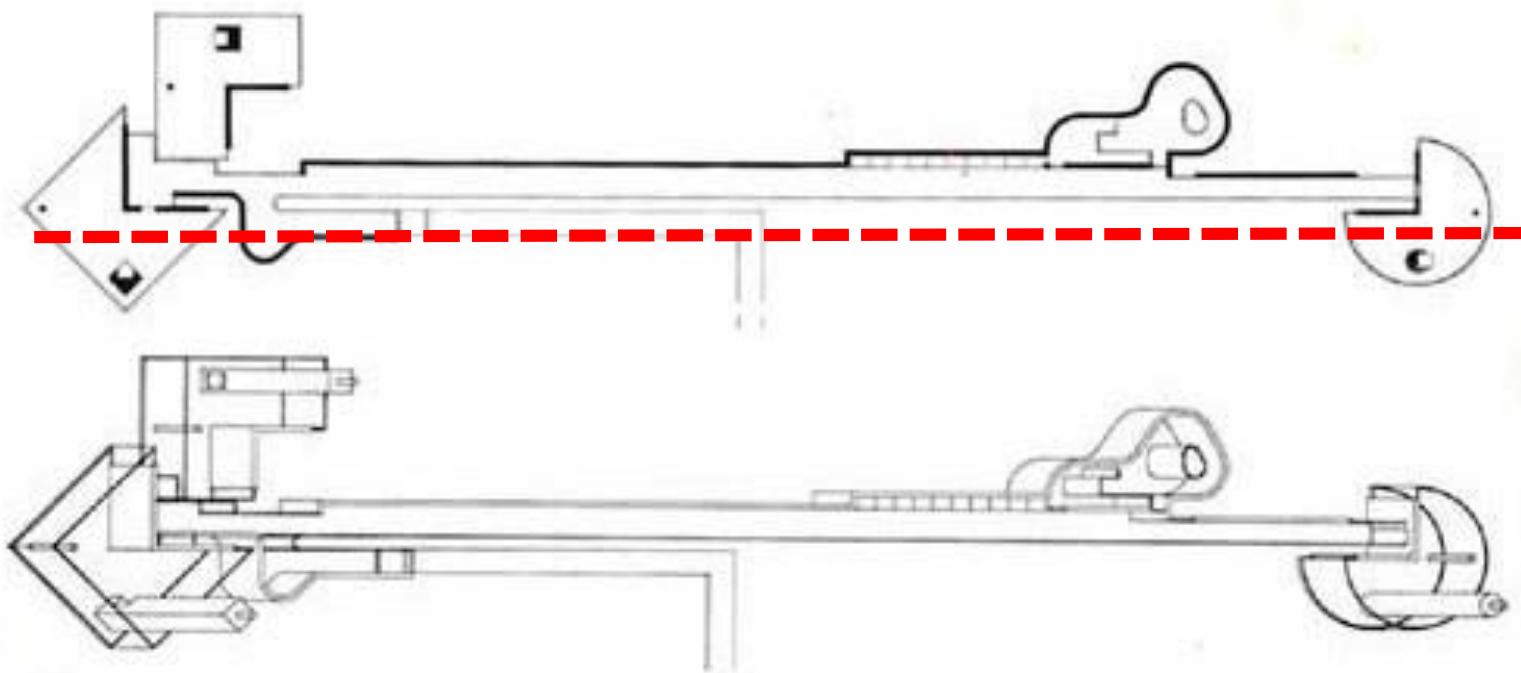
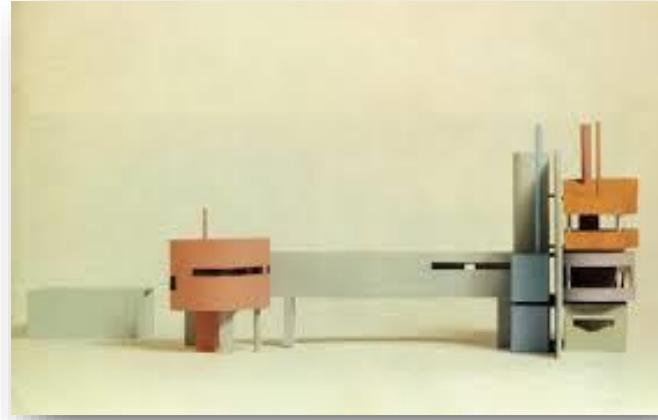
Punto-Línea-Plano-Volumen

Bio-Morphic -Bio-Técnica

Estructura

Tiempo



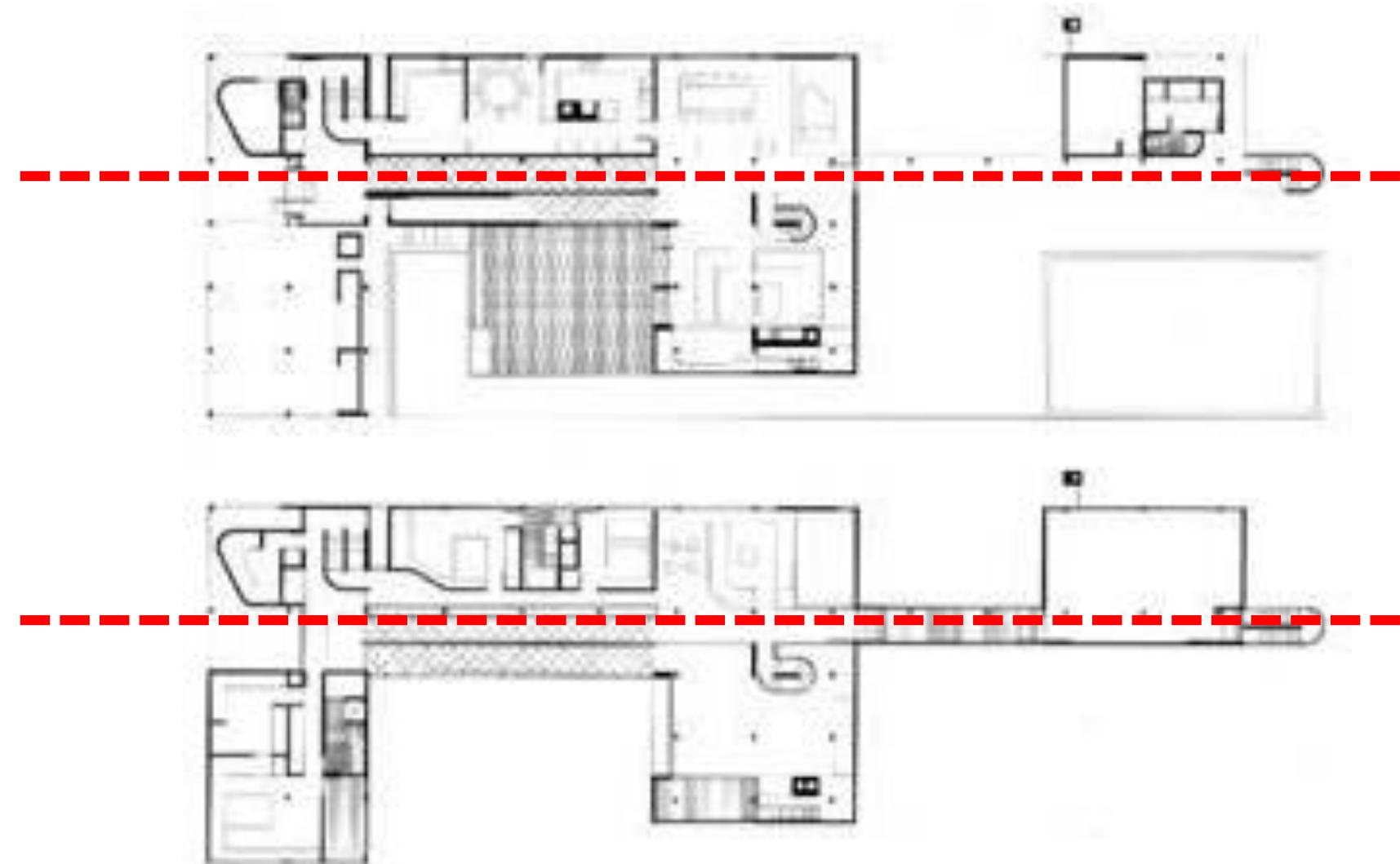


e.



**RICHARD MEIER**  
CASA ROKEFFELLER  
NUEVA YORK  
1971

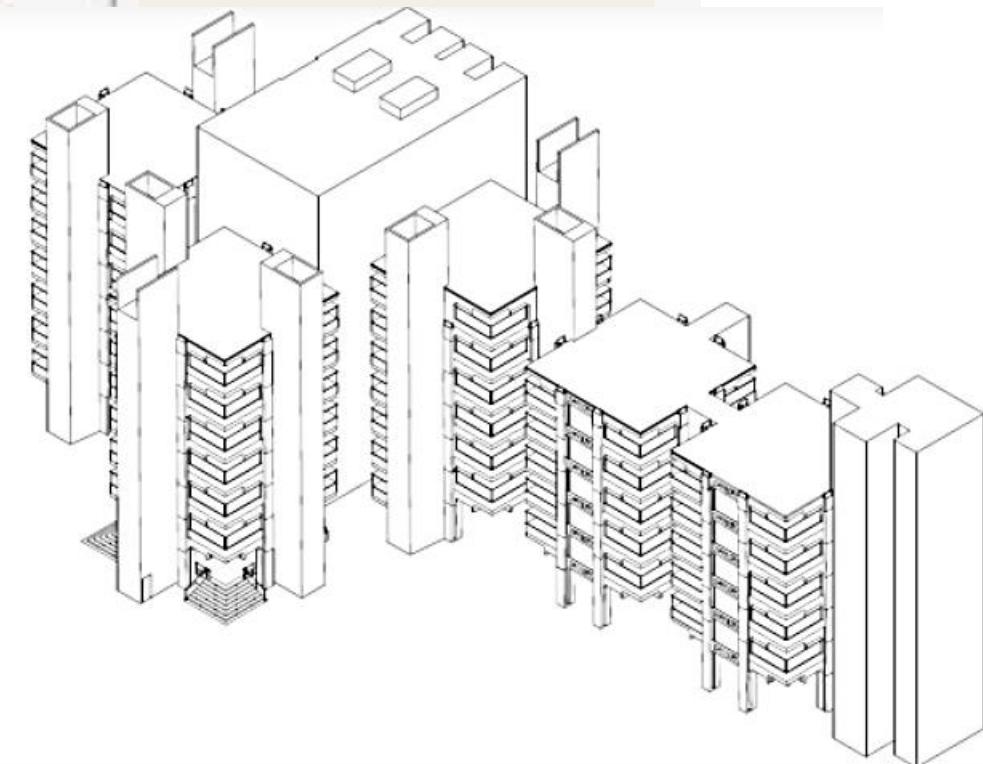
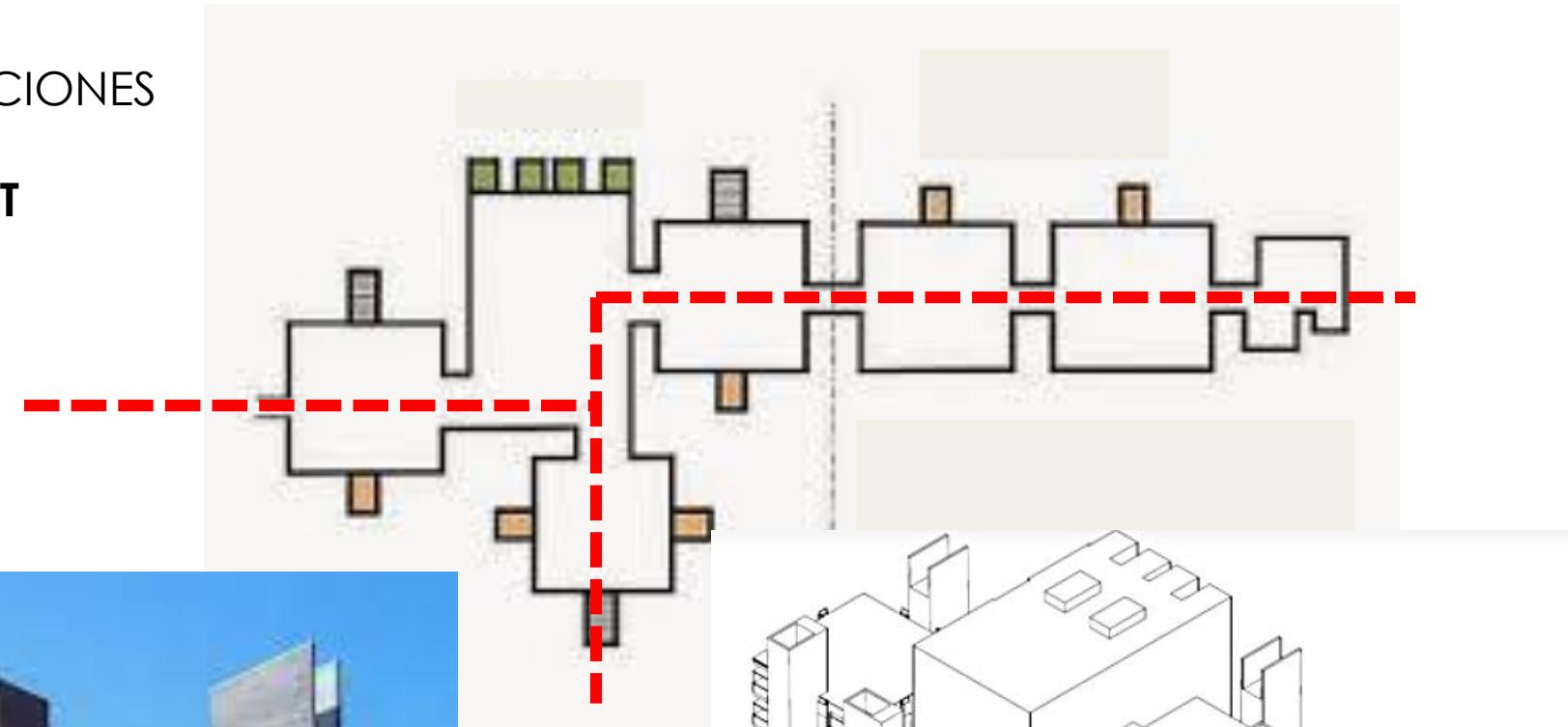
El eje lineal de la circulación, ordena una sucesión de espacios diversos entre sí, ordenándolos al atravesarlos en una línea arquitectónica.







CENTRO DE INVESTIGACIONES  
MÉDICAS RICHARD  
**LOUIS KAHN, ARCHITECT**



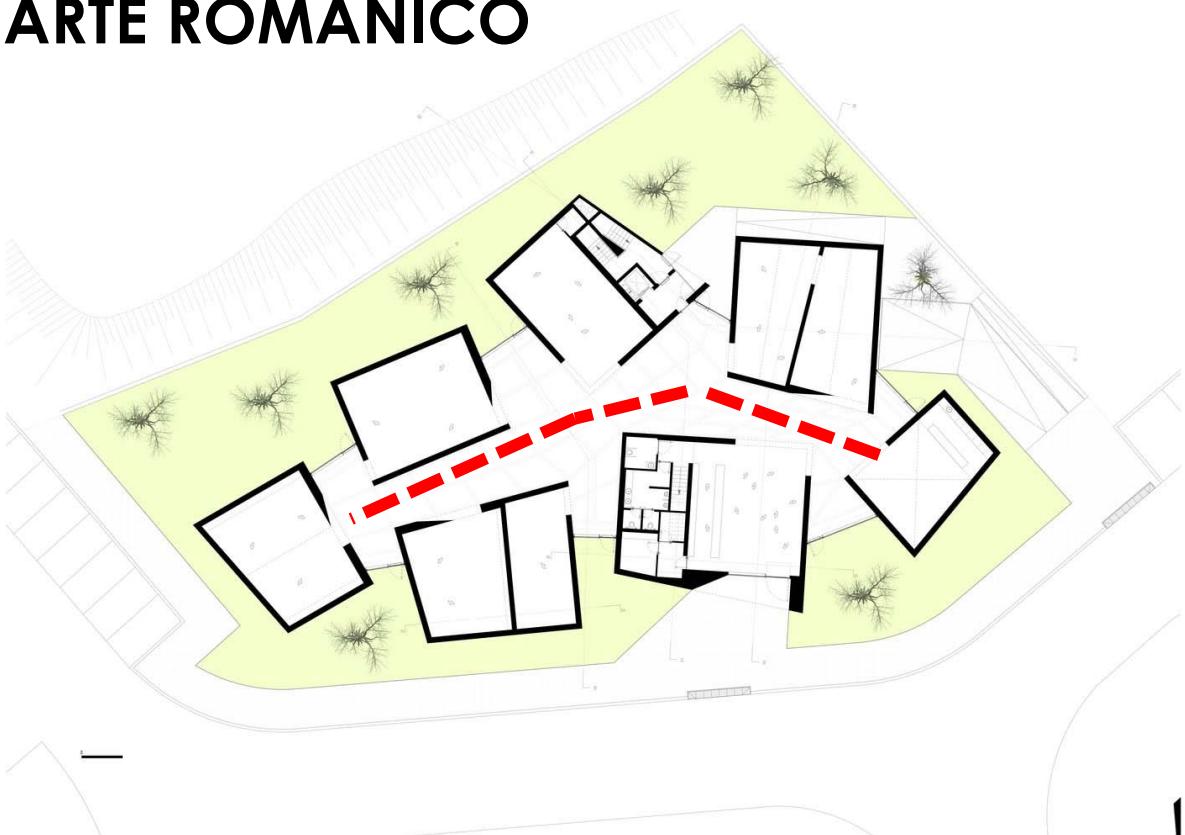
# CENTRO DE INTERPRETACIÓN DEL ARTE ROMANICO

OPORTO – PORTUGAL

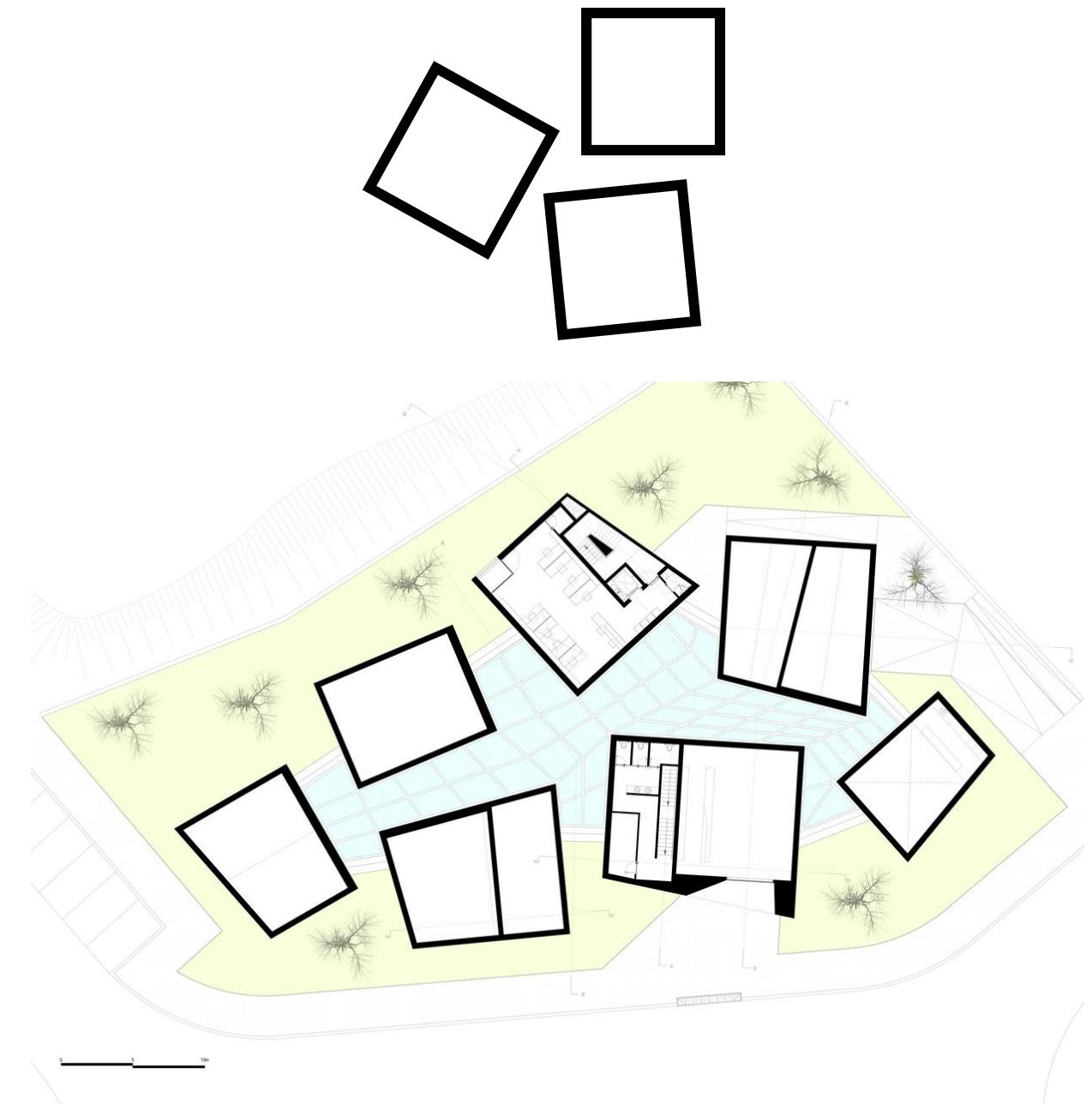
SPACEWORKERS ARCHITEC

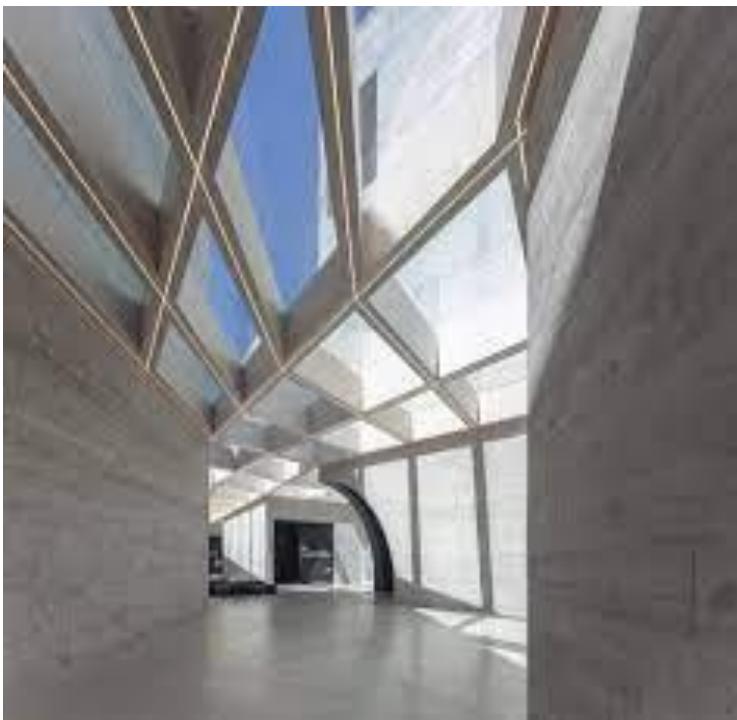


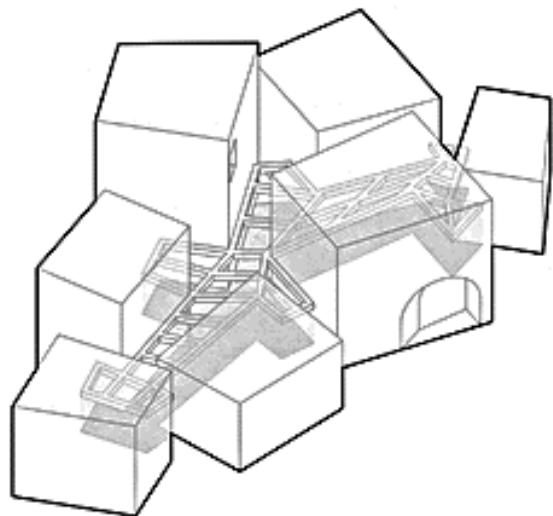
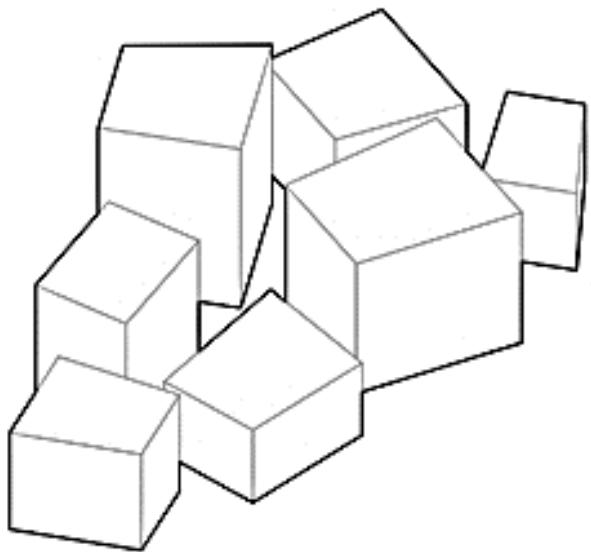
LÍNEA QUEBRADA



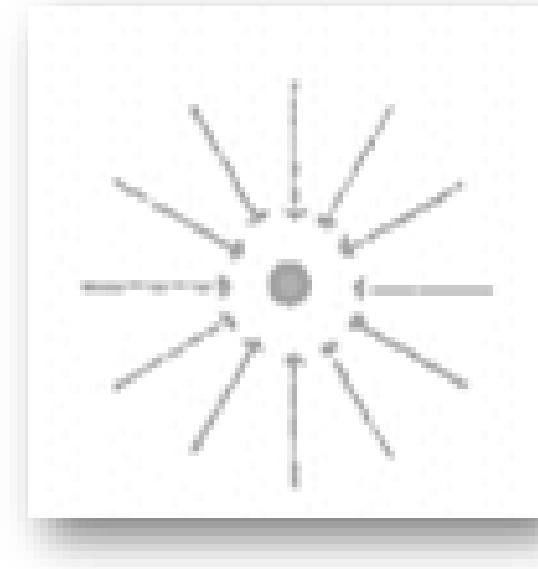








# RADIAL



# RADIAL

La ordenación radial es una combinación de la central y de la lineal: Varias líneas salen centrifugas desde un núcleo central. Así, en vez de ser introvertida, el núcleo se extiende hacia el exterior a través de los brazos lineales

## ORGANIZACIÓN RADIAL

Una organización radial del espacio combina elementos de las organizaciones lineal y centralizada. Comprende un espacio central dominante, del que parten radialmente en numerosas organizaciones lineales. Mientras que una organización centralizada es un esquema introvertido que se dirige hacia el interior de su espacio central, una radial es esquema extrovertido que se escapa de su contexto. Mediante sus brazos lineales puede extenderse y acoplarse por si mismo a elementos o peculiaridades de emplazamiento

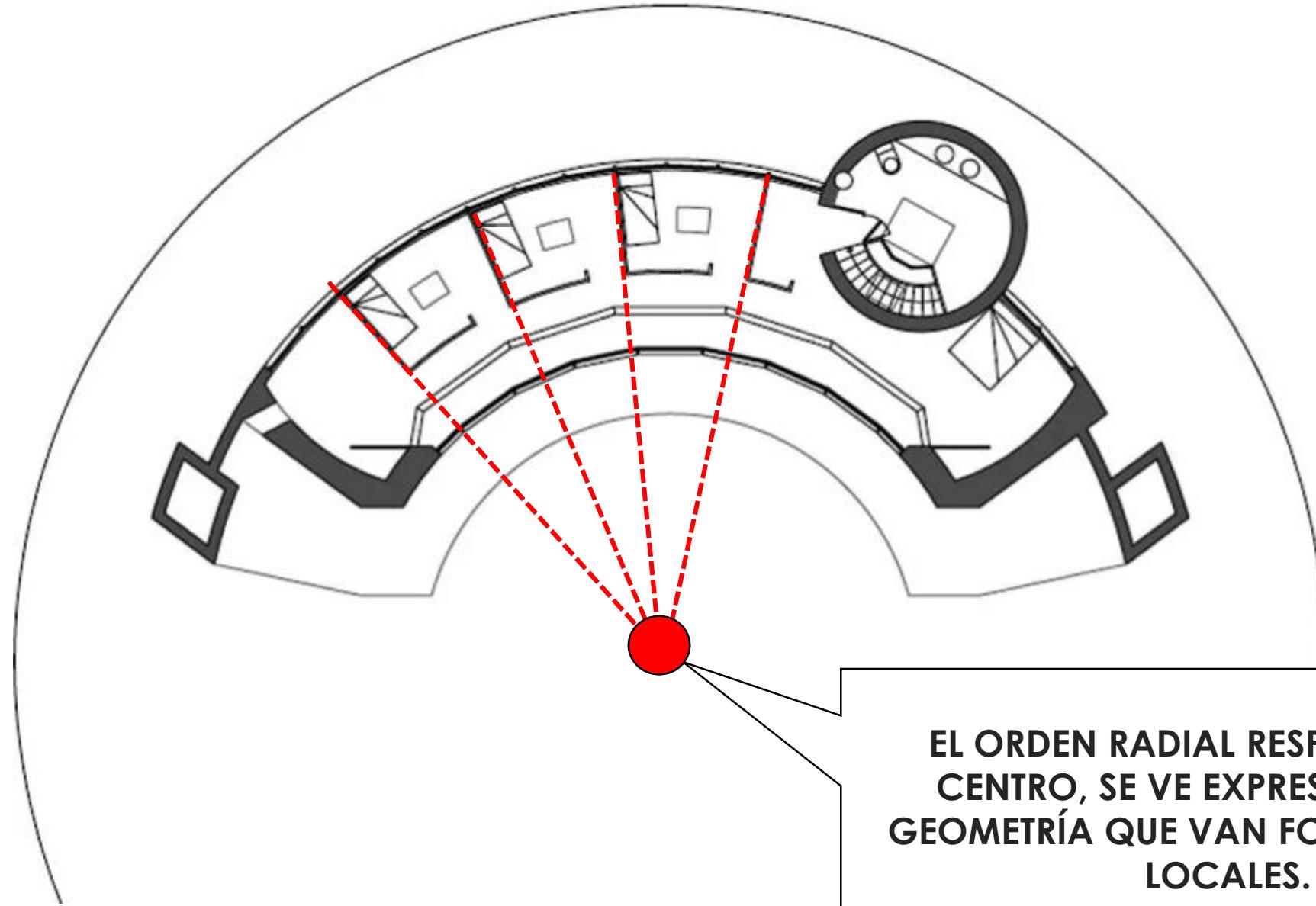
# HERBERT JACOBS HOUSE II

MIDDLETON, WISCONSIN, ESTADOS UNIDOS

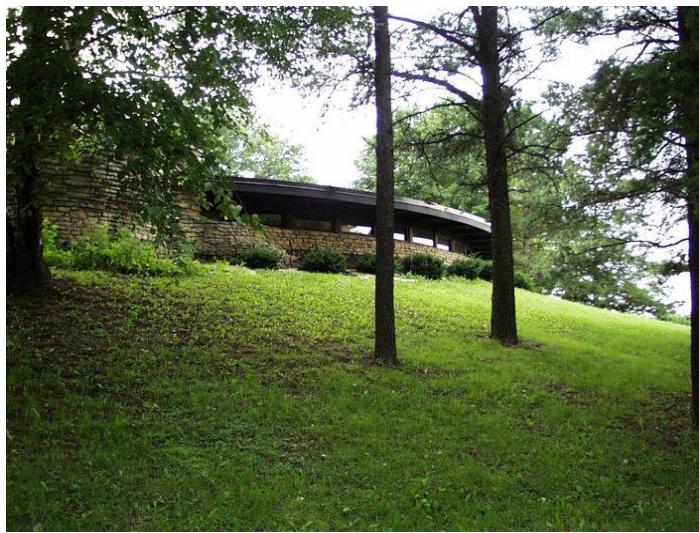
FRANK LLOYD WRIGHT

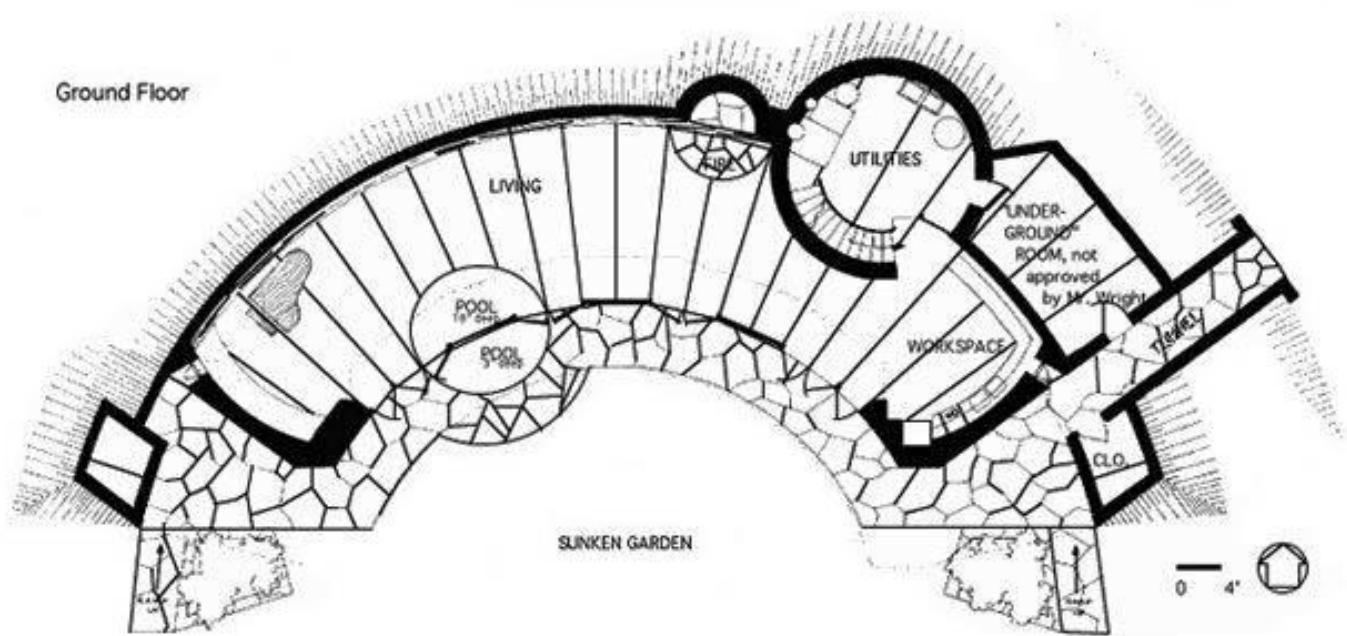
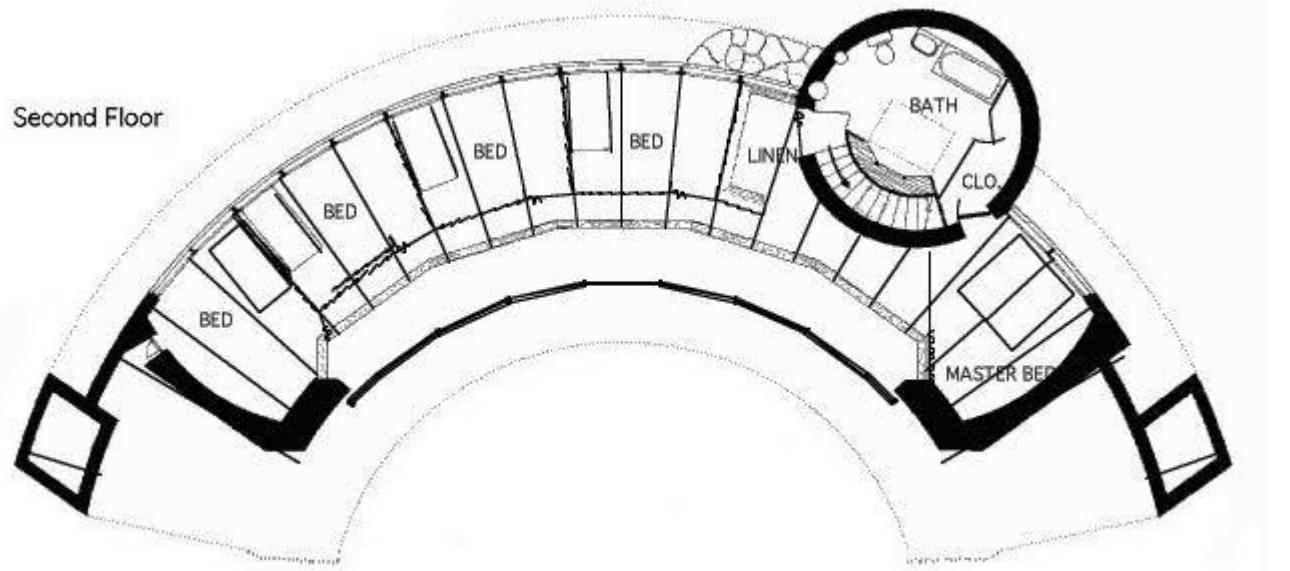
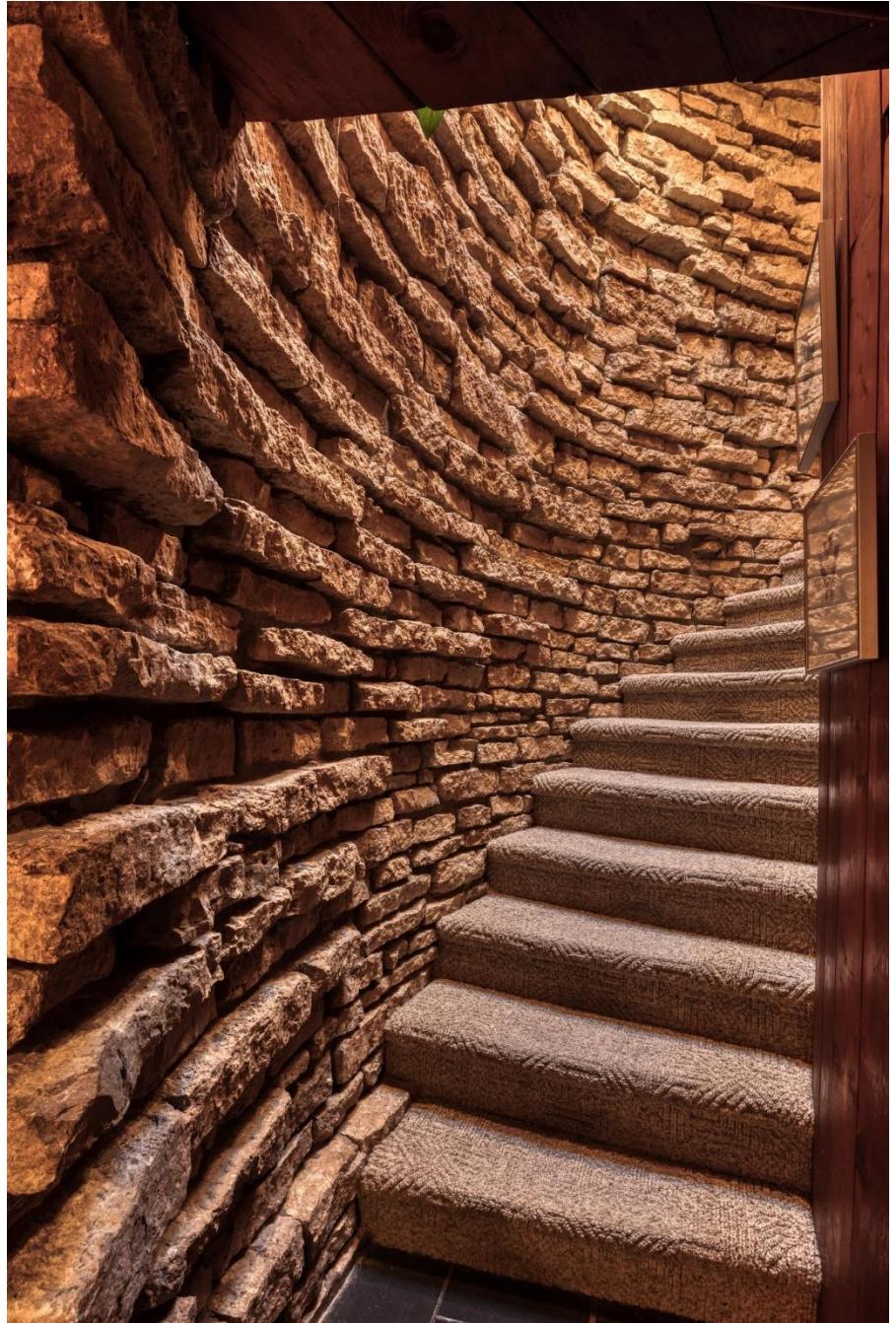
1944-1948



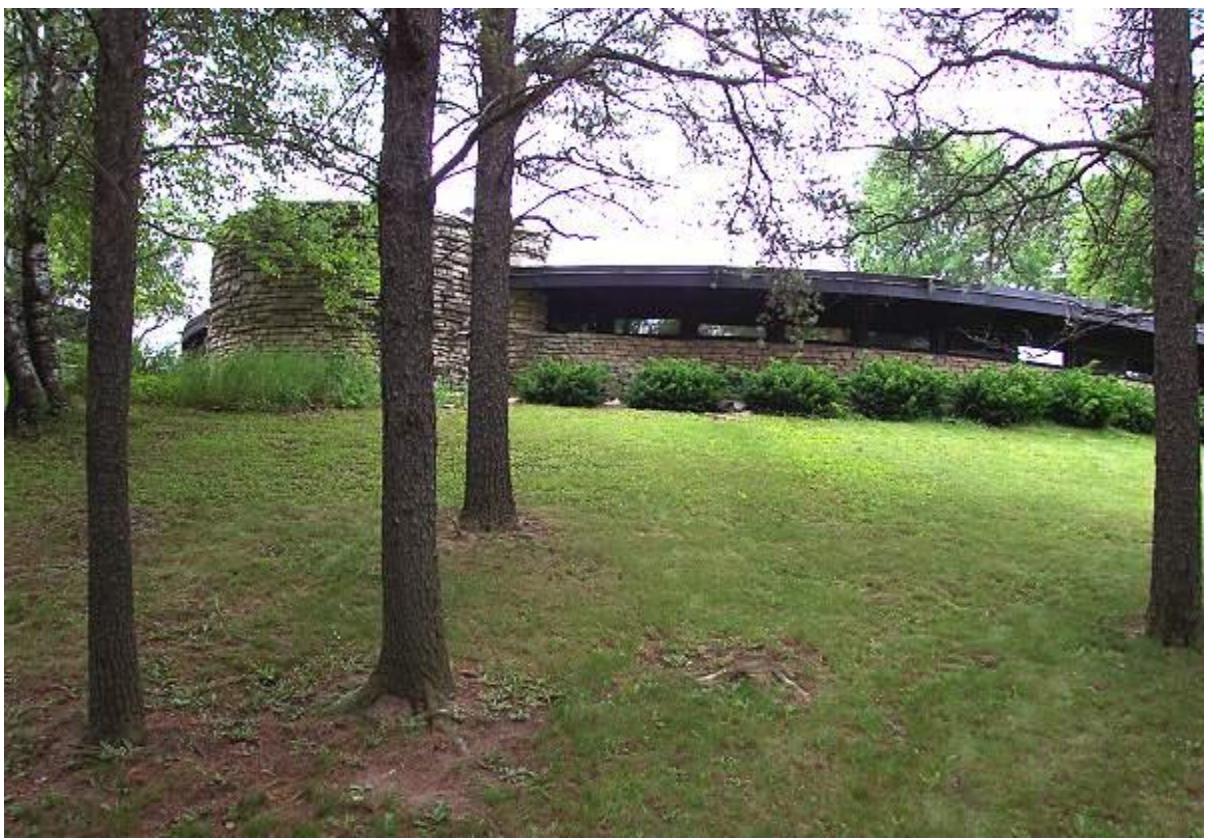


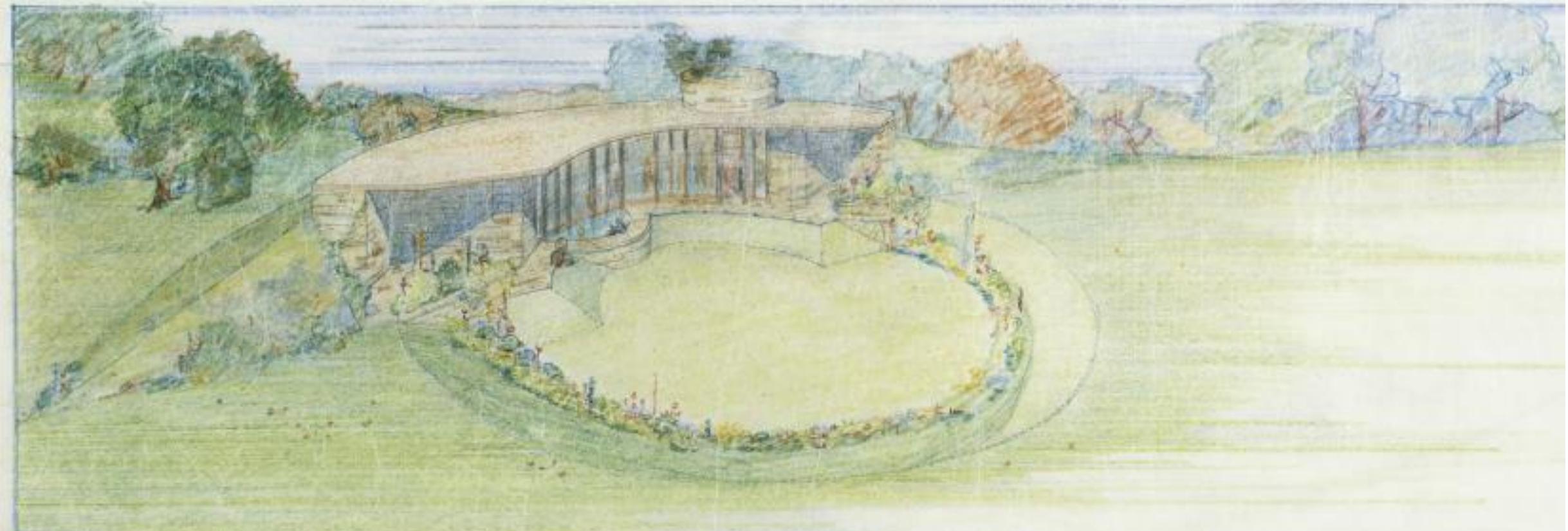
**EL ORDEN RADIAL RESPONDE A UN  
CENTRO, SE VE EXPRESADO EN LA  
GEOMETRÍA QUE VAN FORMANDO LOS  
LOCALES.**



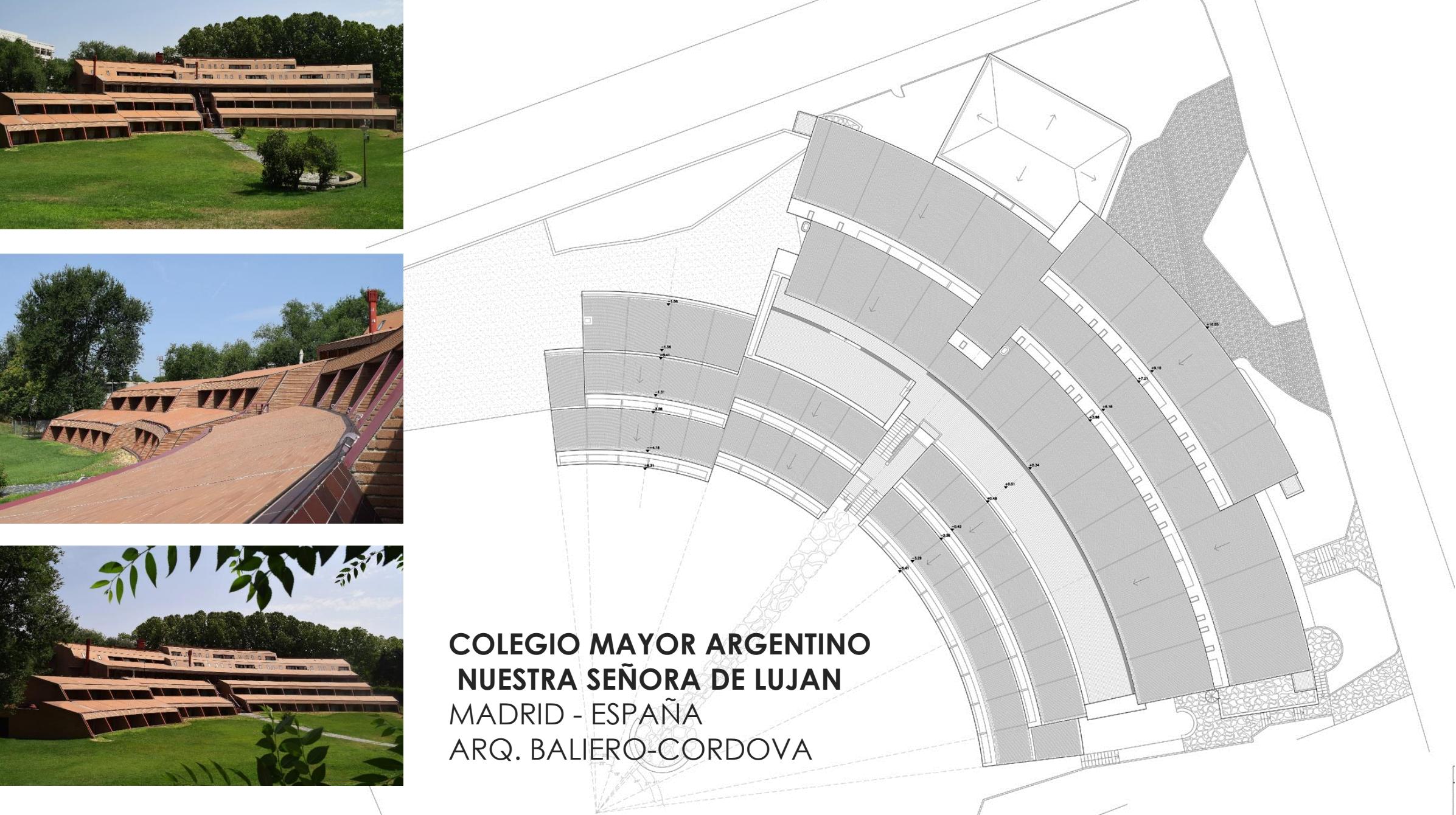




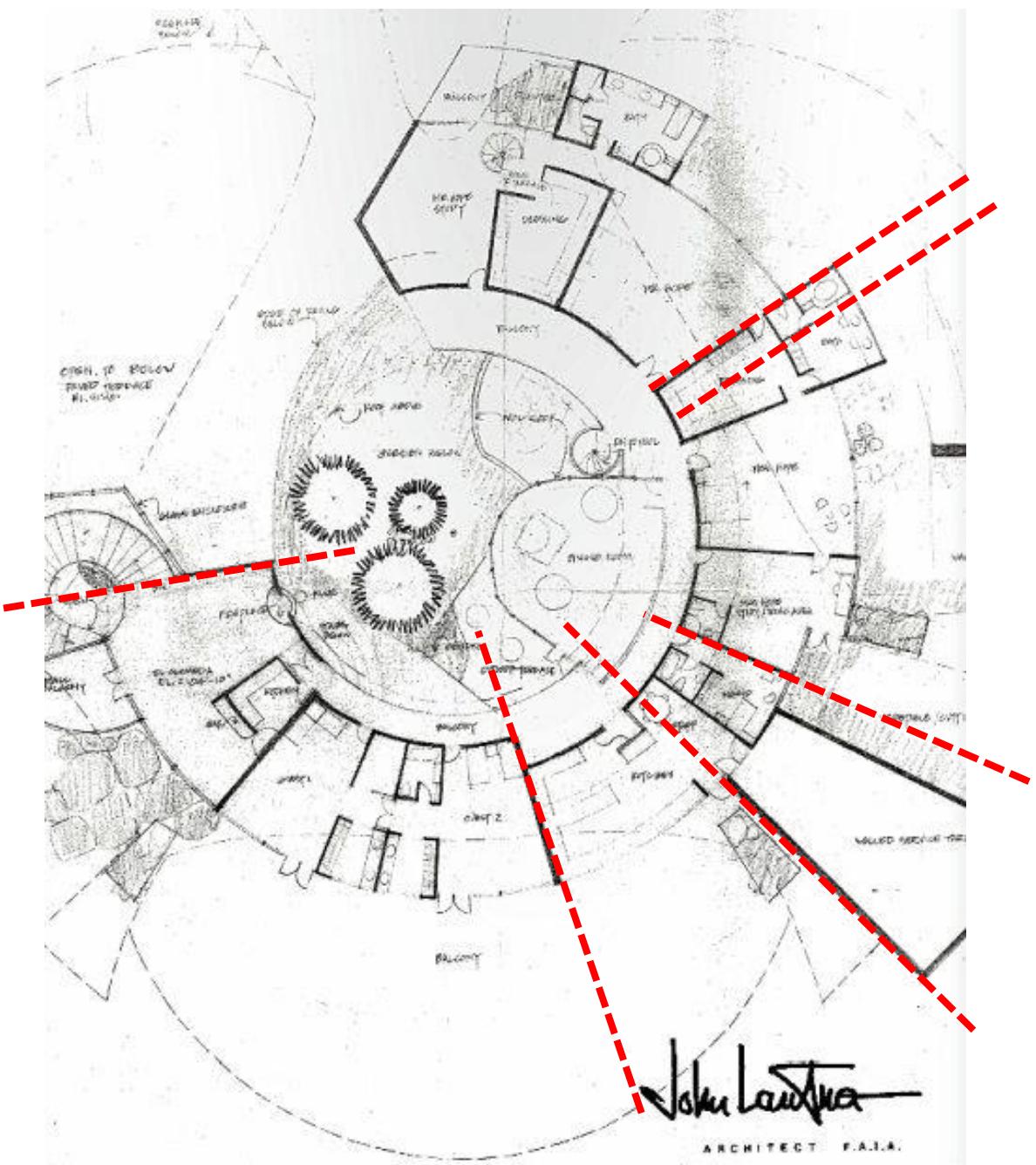
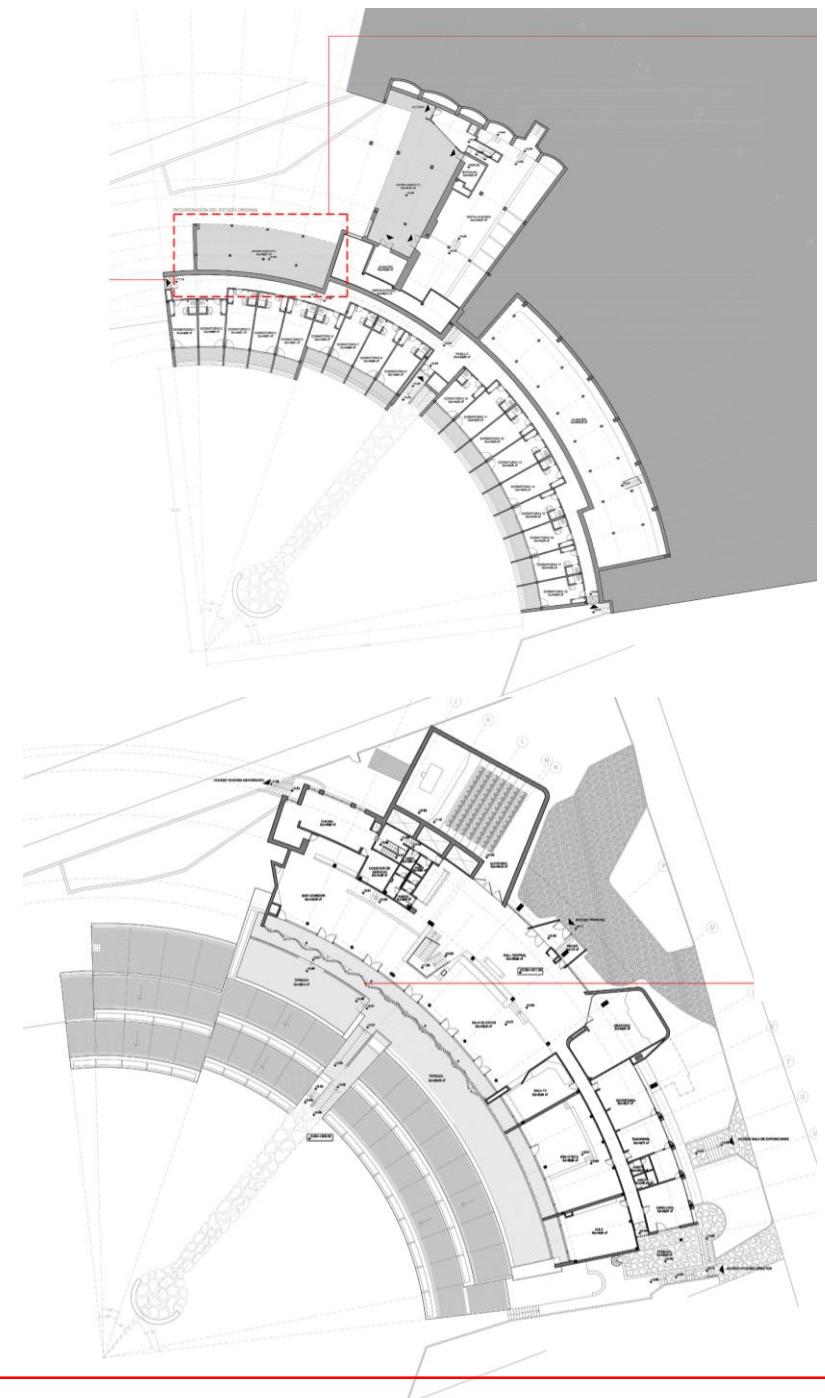


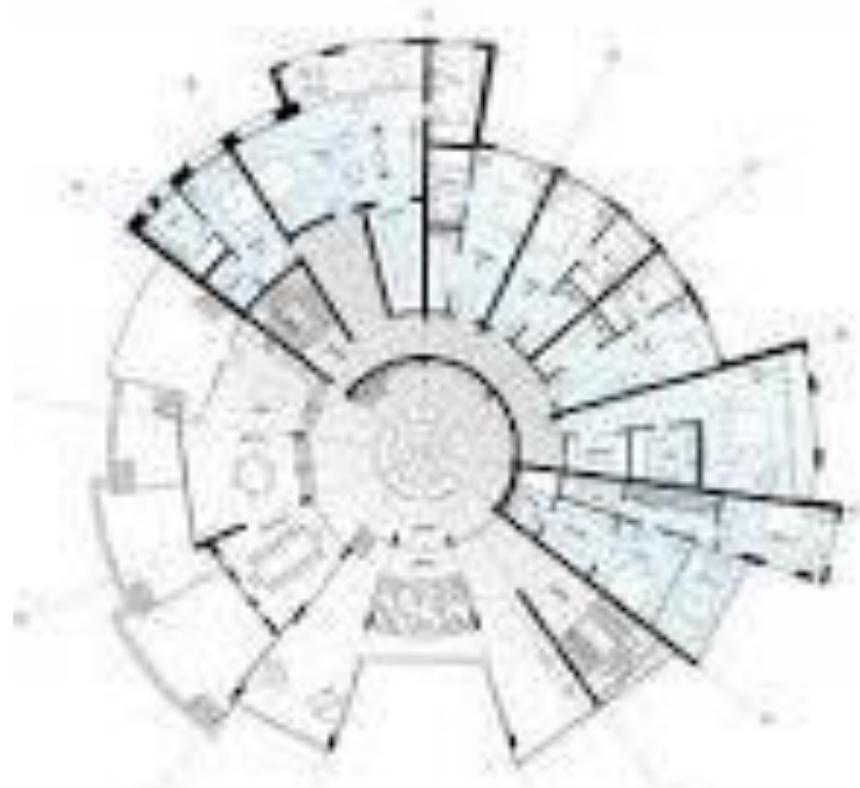


SOLAR - HEMICYCLE  
FRANK LLOYD WRIGHT ARCHITECT  
FOR HERBERT JACOBS



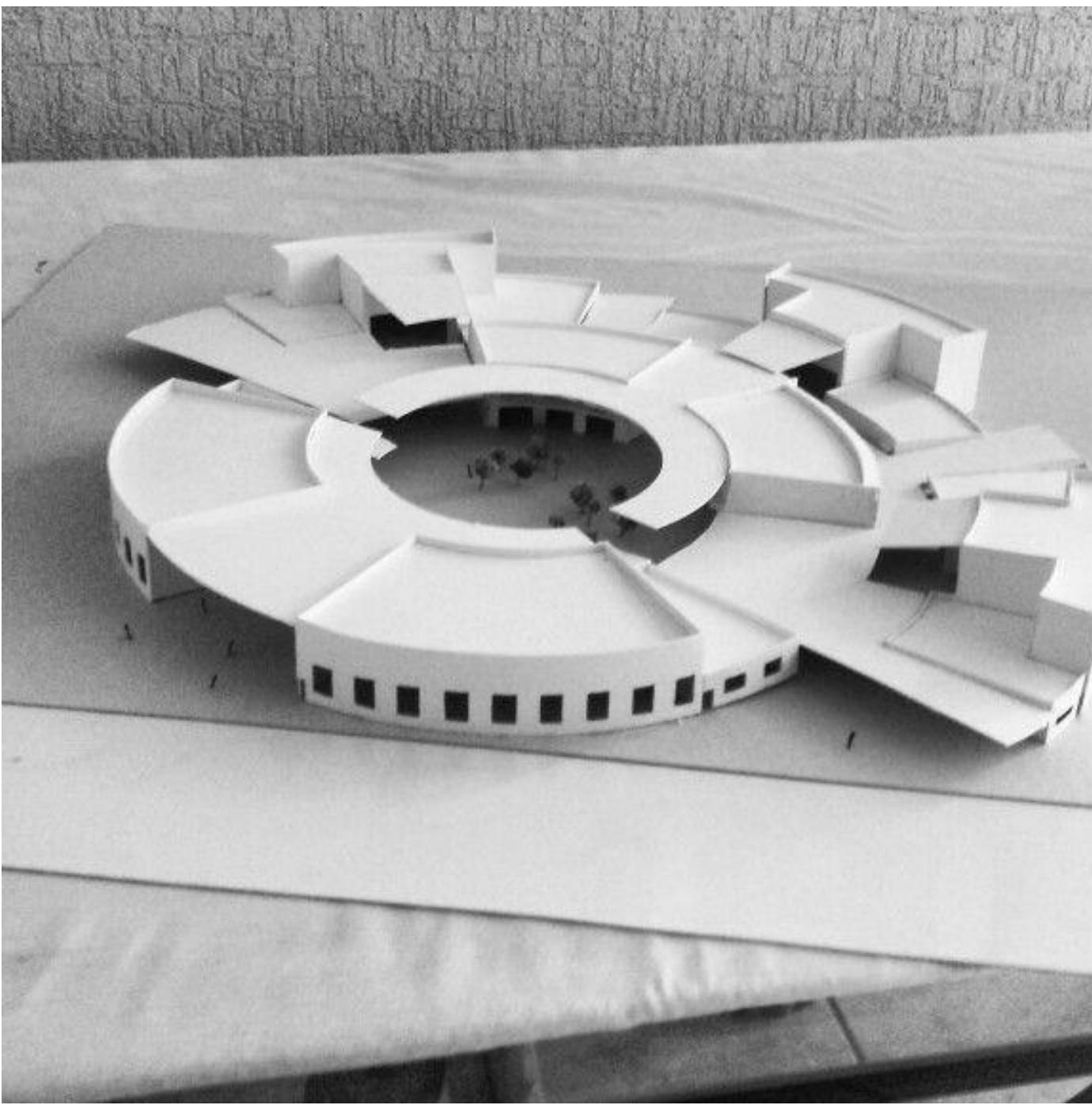
**COLEGIO MAYOR ARGENTINO  
NUESTRA SEÑORA DE LUJAN  
MADRID - ESPAÑA  
ARQ. BALIERO-CORDOVA**

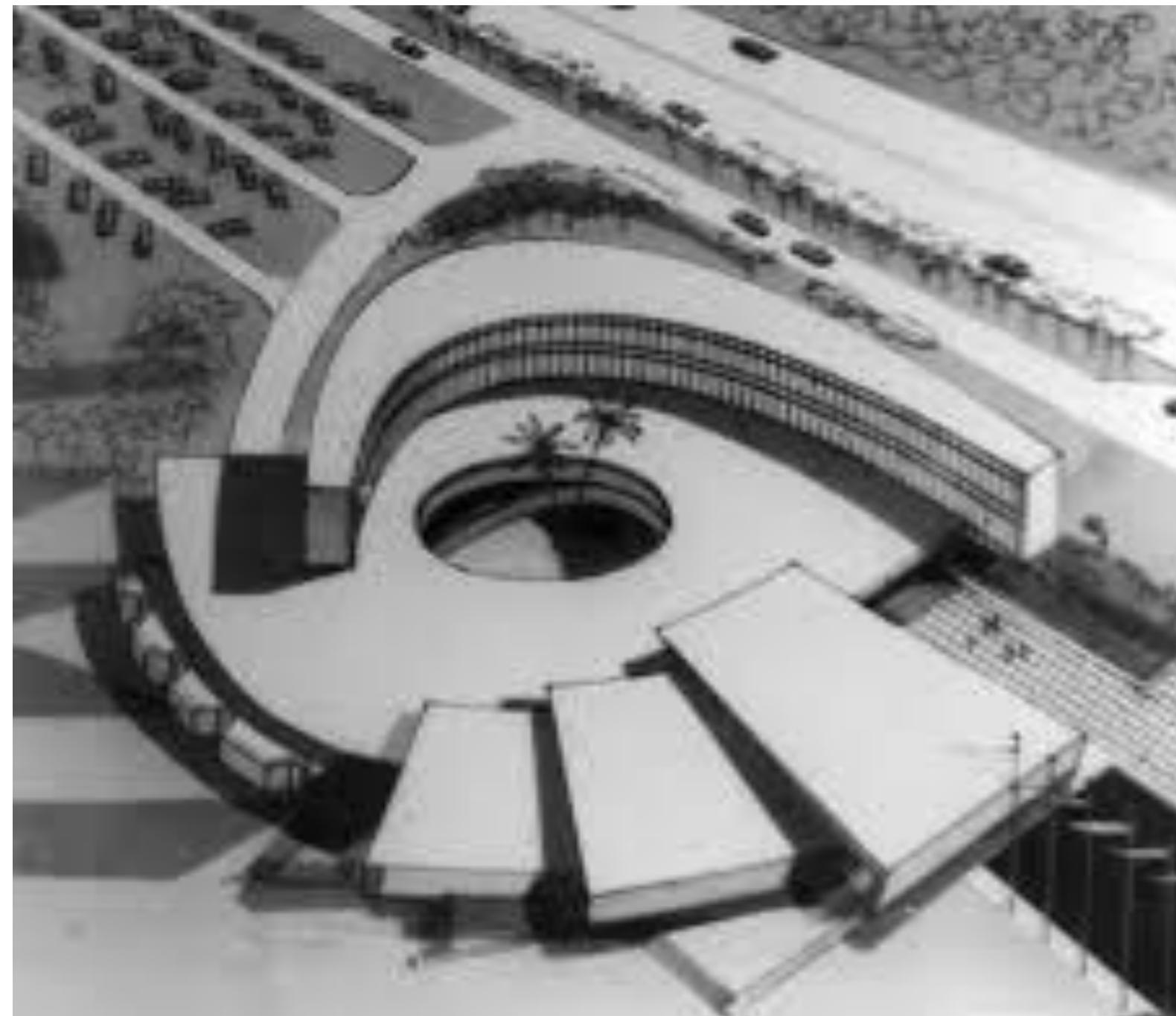
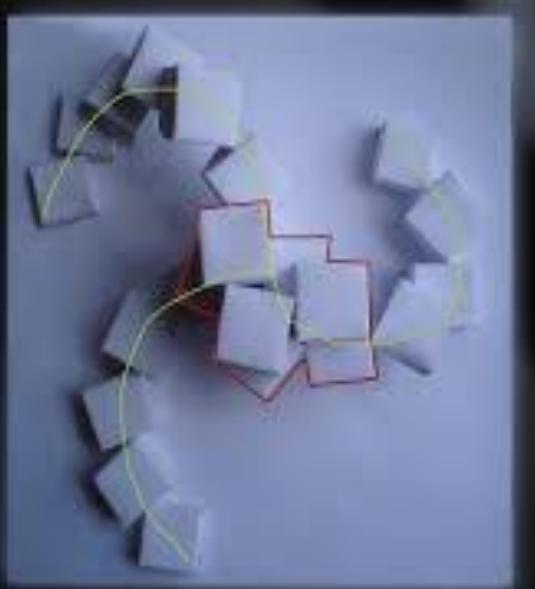


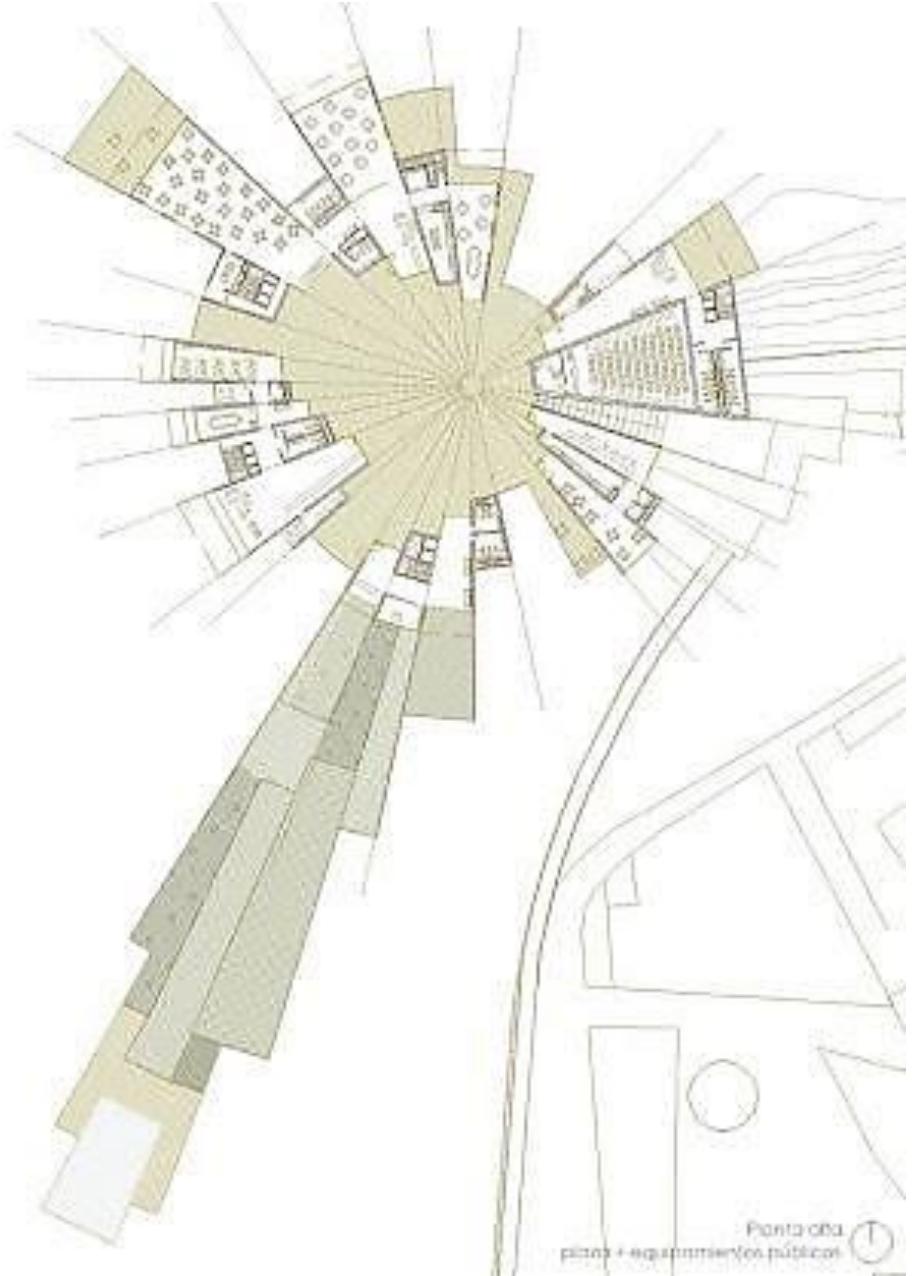
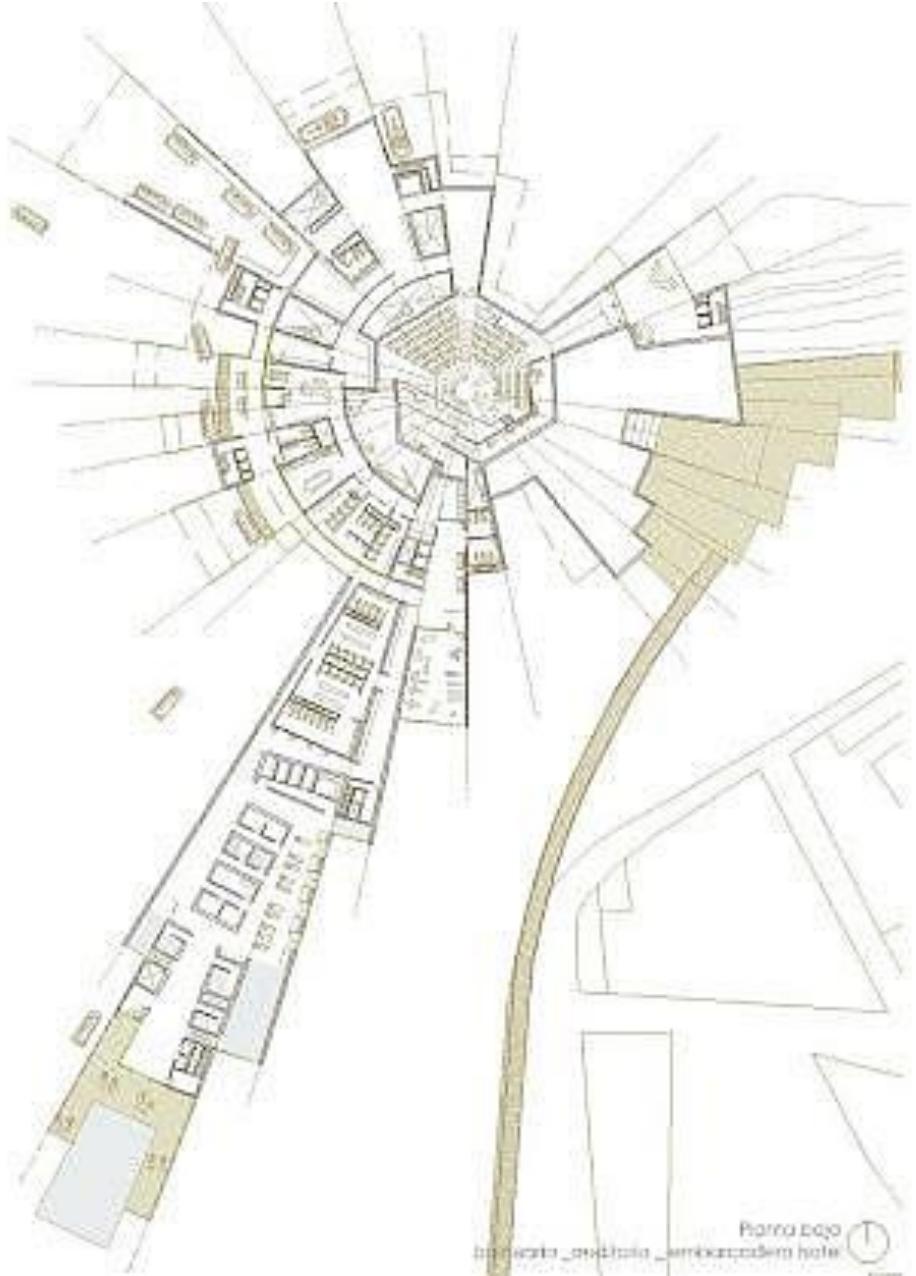


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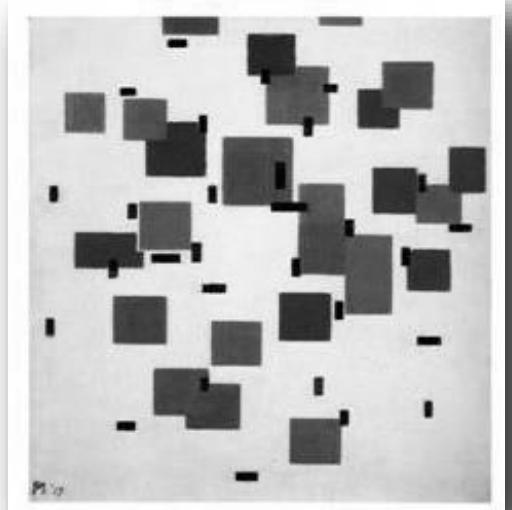


Maqueta de tablas de madera  
vista desde el surcado

[En la parte inferior derecha aparece resaltado el trazo del balcón]



# MACLA



# MACLA

Con esta organización, los espacios se agrupan, se interseccionan en un continuo, donde casi pierden su identidad individual.

En el rectángulo del cuadro, plano, otros rectángulos de colores planos, sin volumen, sombra ni perspectiva, aparecen unos sobre otros, generando una profundidad inexistente. La imaginación se impone a los sentidos.

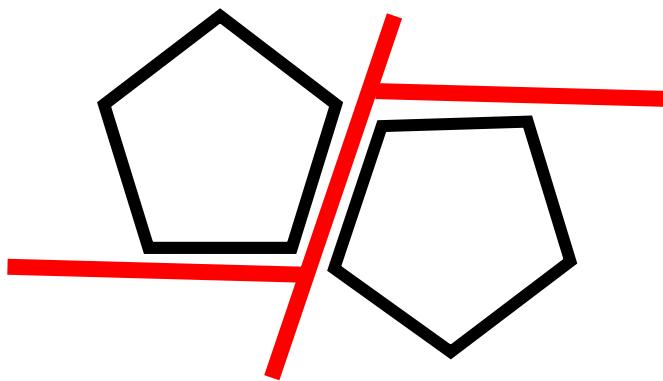
## ORGANIZACIÓN MACLA o AGRUPADA

Para relacionar los espacios entre si, la organización agrupada se sirve de la proximidad. A menudo consiste de espacios celulares repetidos que desempeñan funciones parecidas y comparten un rasgo visual común, como pueda ser la forma o la orientación.

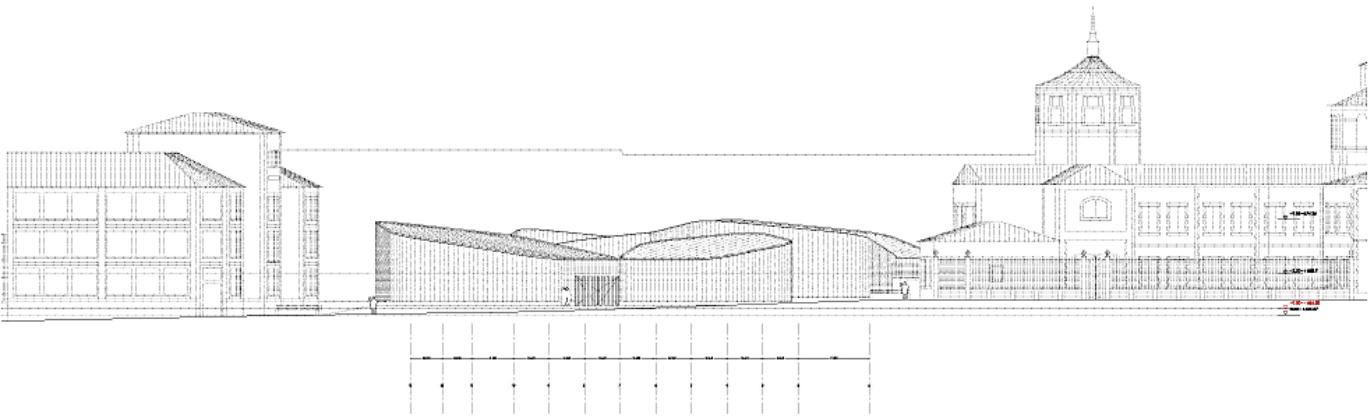
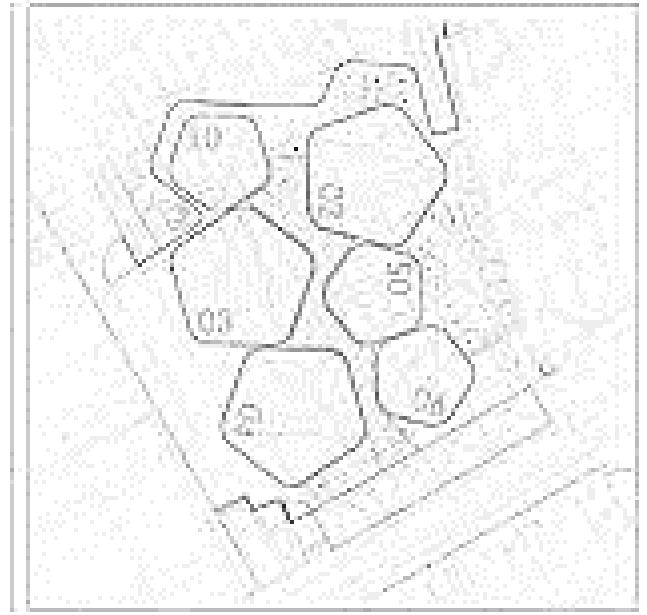
Una organización agrupada también puede acoger en su composición espacios que difieren en dimensiones, forma y función, siempre que se interrelacionen por proximidad y por un elemento visual como simetría o un eje cualquiera. Este modelo no proviene de la idea rígida ni geométrica y, por consiguiente es flexible y admite sin dificultad cambiar y desarrollarse sin que se altere su naturaleza.

# MERCADO BARCELO MADRID

NIETO SOBEJANO ARQUITECOS



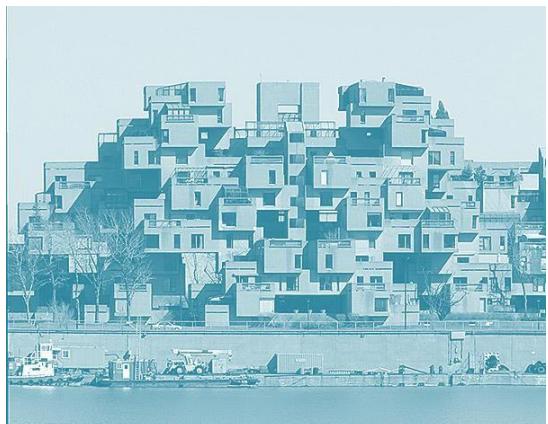




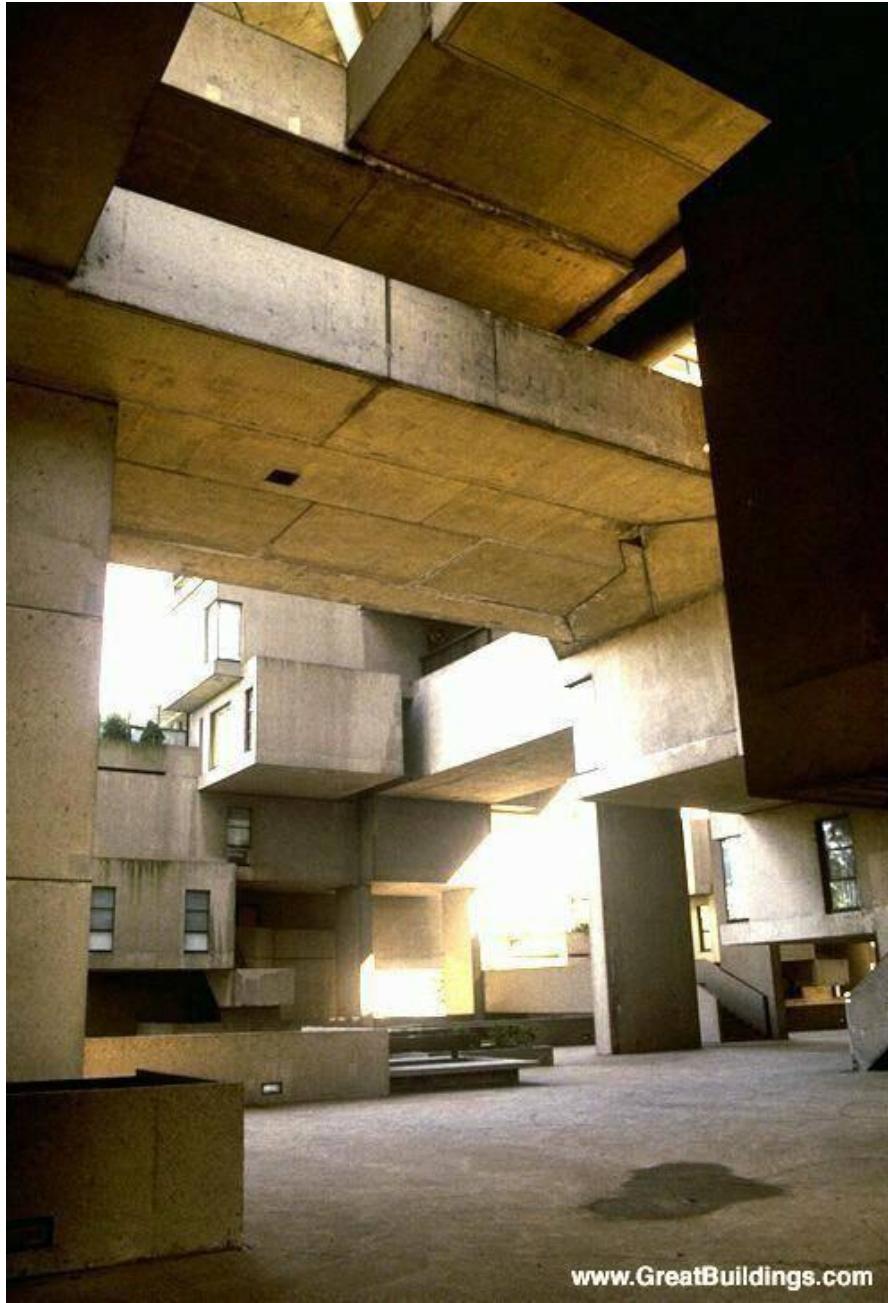




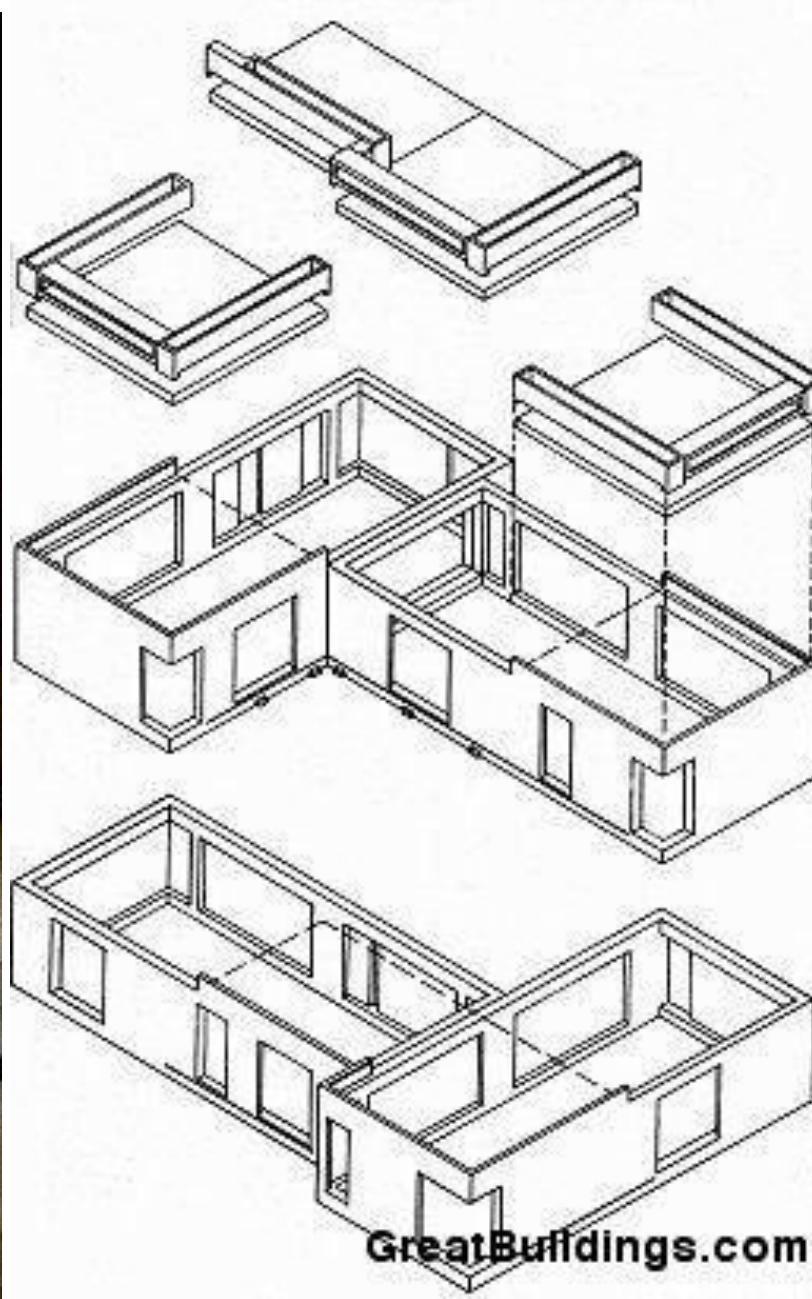
[www.GreatBuildings.com](http://www.GreatBuildings.com)



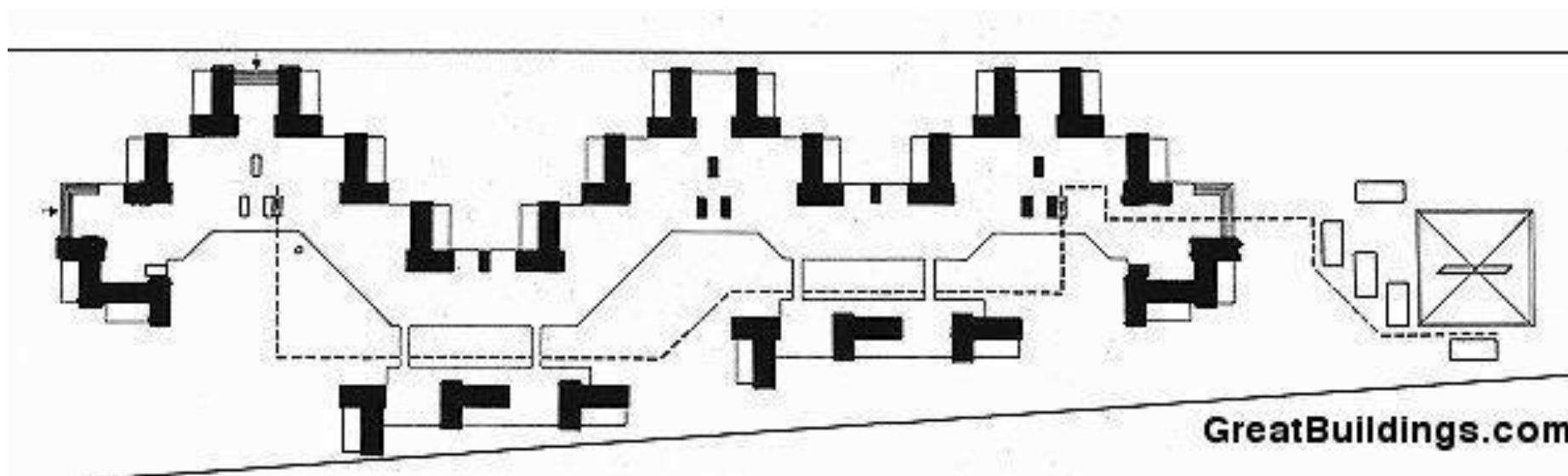
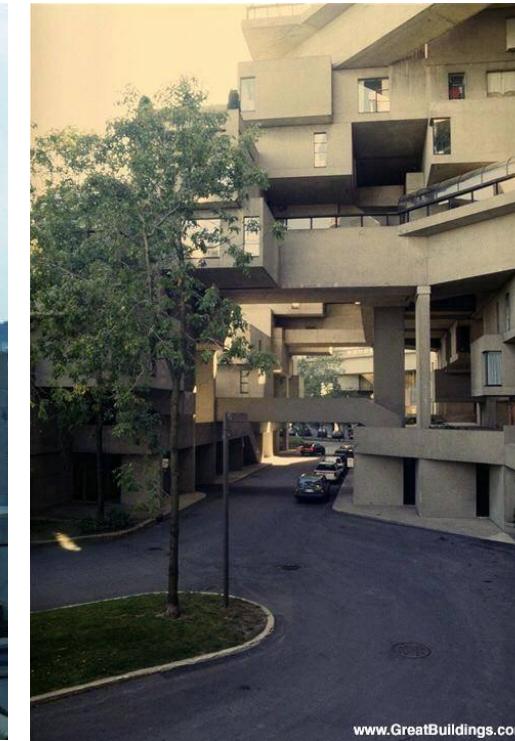
[www.GreatBuildings.com](http://www.GreatBuildings.com)



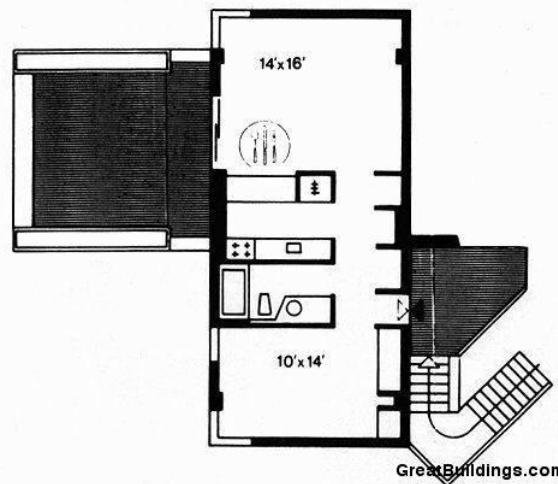
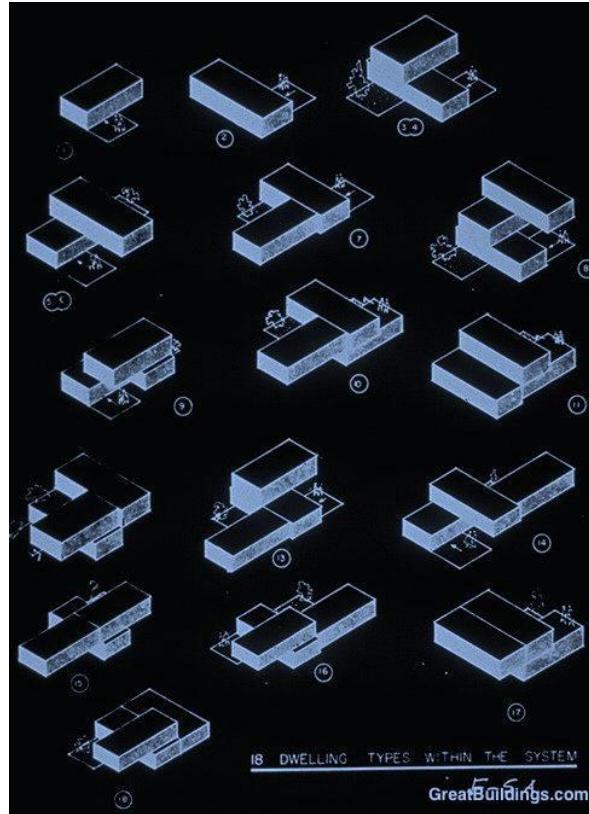
[www.GreatBuildings.com](http://www.GreatBuildings.com)



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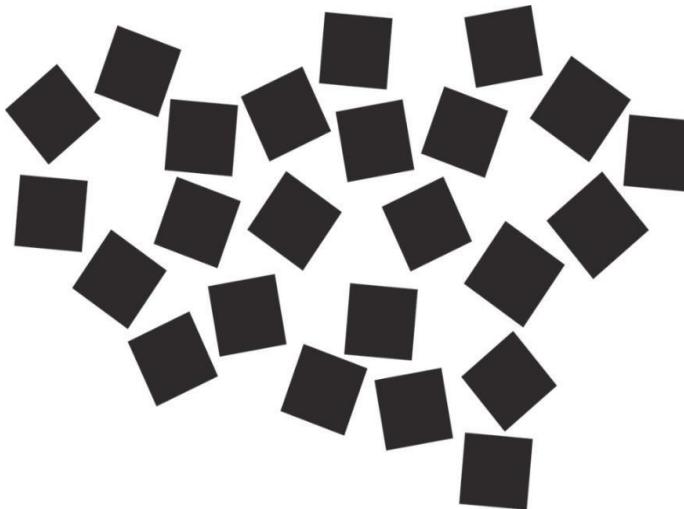
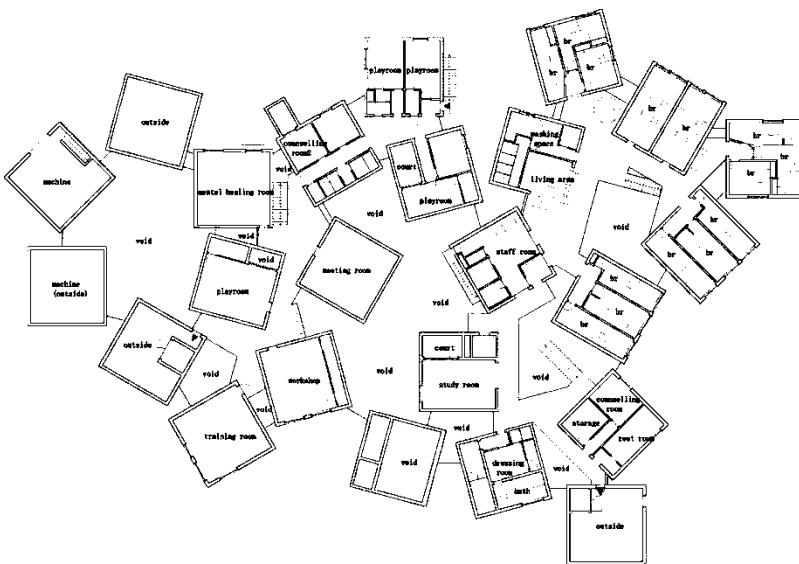
# CENTRO DE REHABILITACION PSIQUIATRICA PARA NIÑOS

HOKKAIDO, JAPON

SOU FUJIMOTO

2006





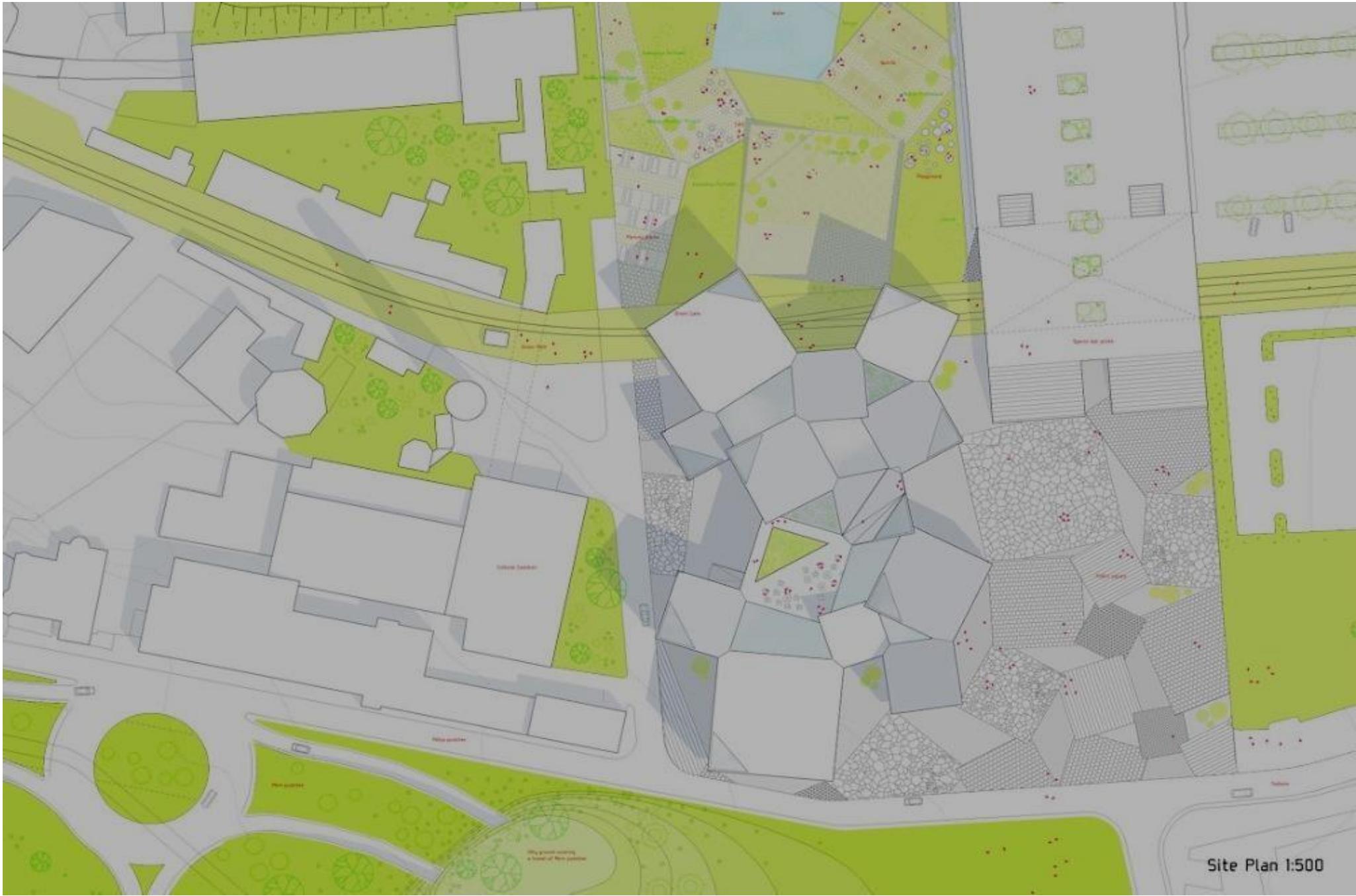
**1º PREMIO CONCURSO AYUNTAMIENTO**

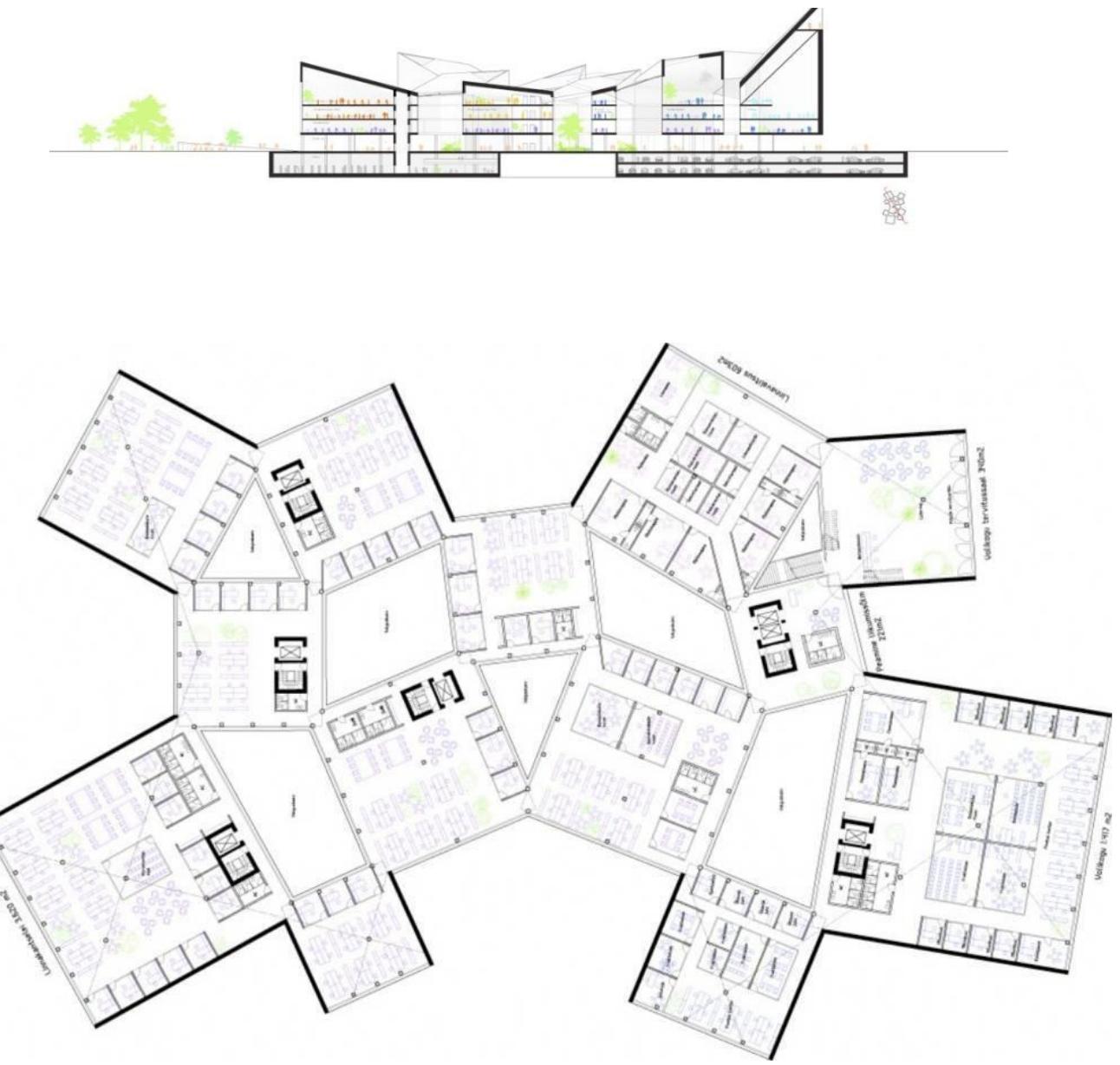
TALLIN - ESTONIA

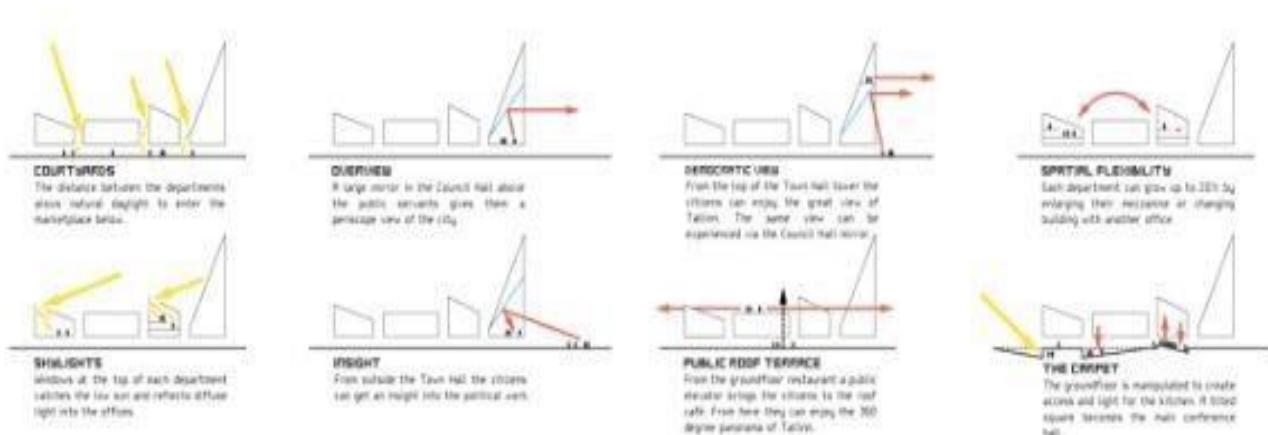
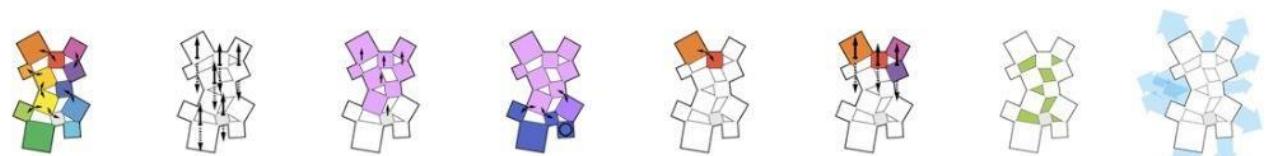
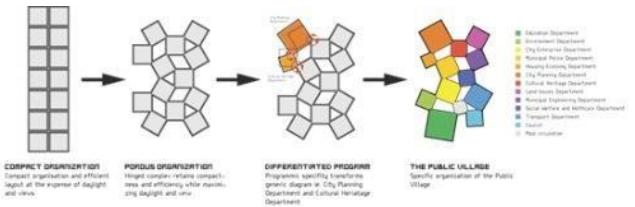
BIG

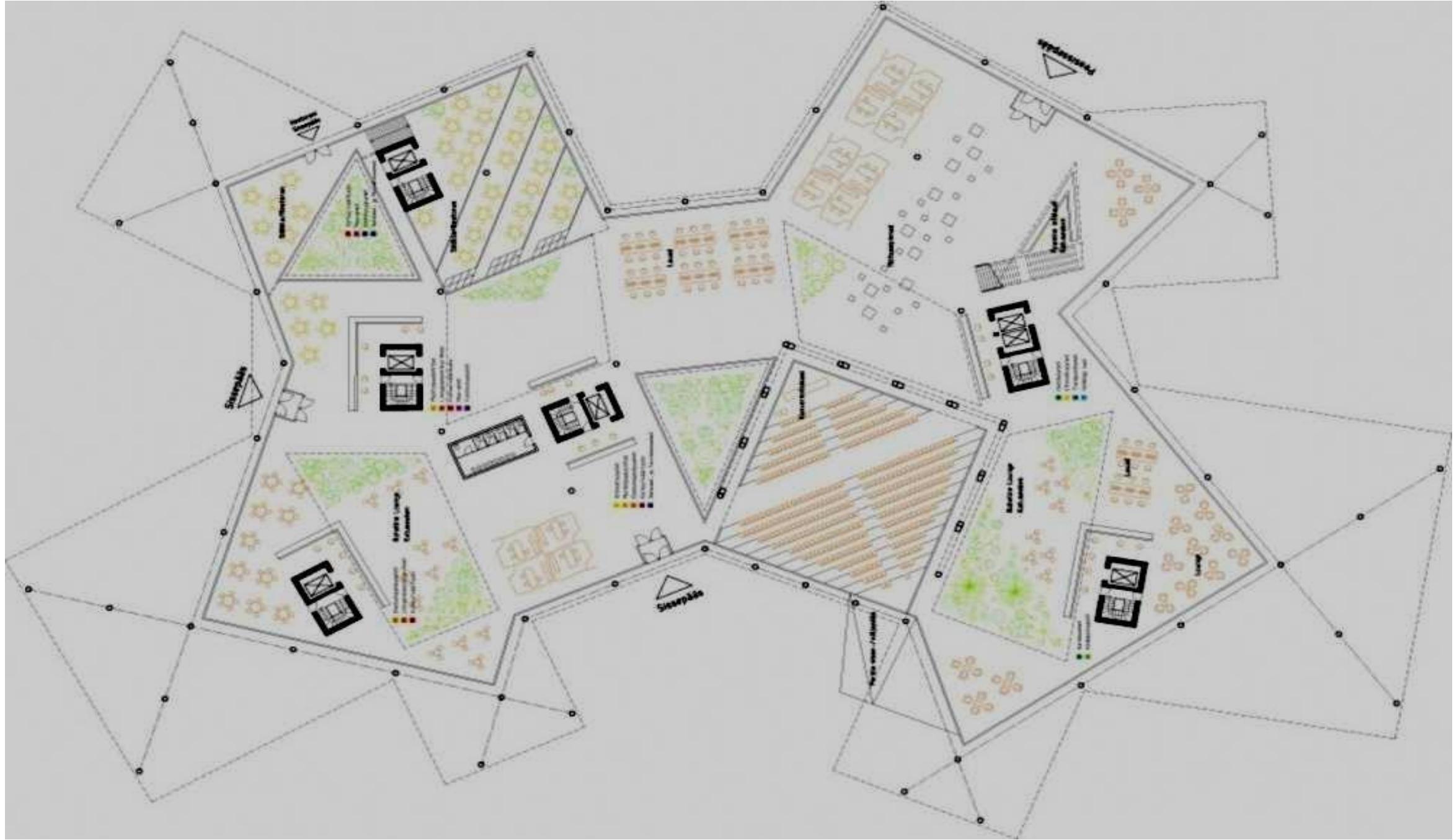






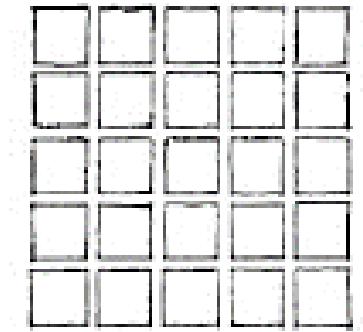








# TRAMA



# TRAMA

Es una retícula, visible o no, que subyace bajo diversas formas y elementos. Los ordena estableciendo relaciones de dimensión y orientación

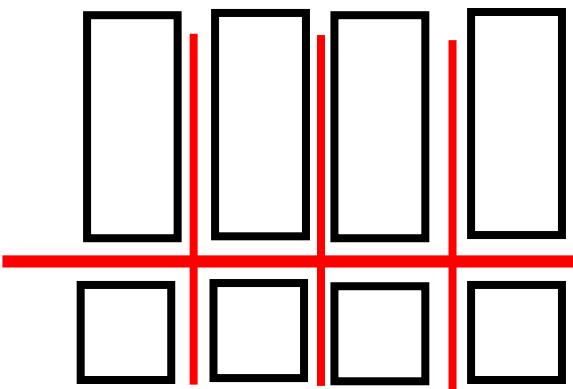
“El hombre se manifiesta por el orden: Cuando salen ustedes de París en tren, ¿que ven extenderse ante sus ojos, sino una inmensa puesta en orden? Lucha contra la naturaleza para dominarla, para clasificar, para estar a gusto. En una palabra, para instalarse en un mundo humano que no sea el medio de la naturaleza antagonista; un mundo nuestro, de orden geométrico” LC. EL ESPÍRITU DE LA ARQUITECTURA

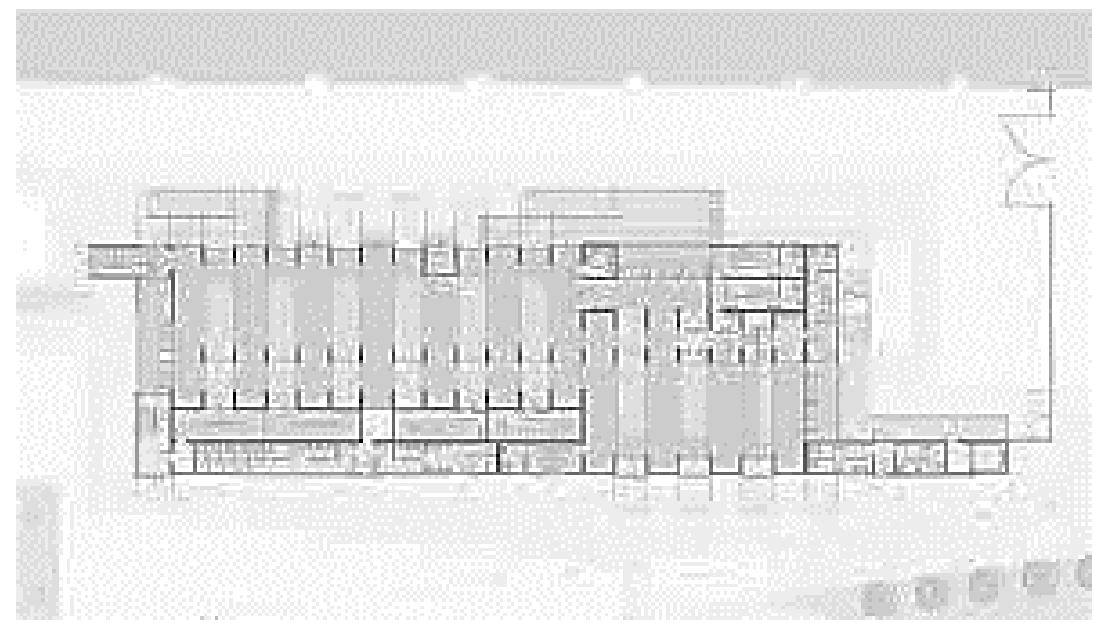
## ORGANIZACIÓN EN TRAMA

Una organización en trama se compone de unas formas y unos espacios cuya posición en el espacio y sus interrelaciones están reguladas por un tipo de trama o por un campo tridimensional. La trama se crea estableciendo un esquema regular de puntos que definen las intersecciones de dos conjuntos de líneas paralelas; al proyectarla en la tercera dimensión obtenemos una serie de unidades espacio-modulares y repetidas

# SEVILLE CRUISE TERMINAL PHASE 2

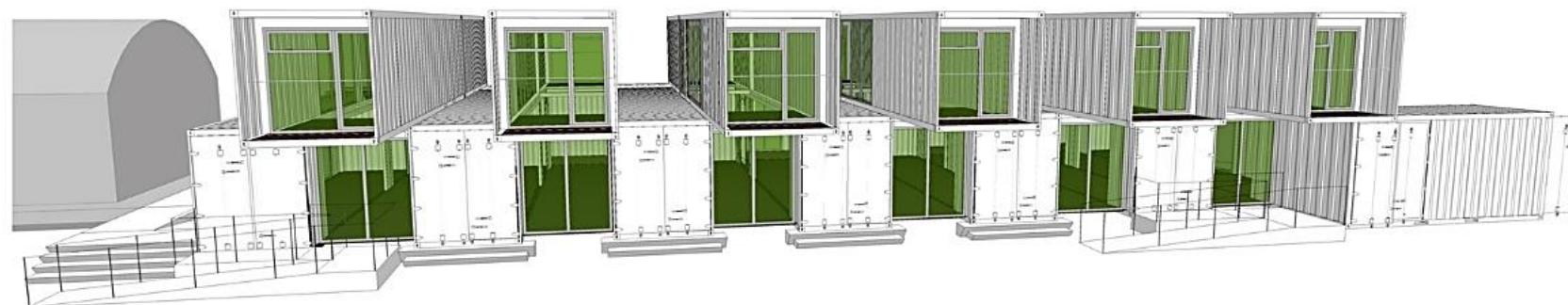
HOMBRE DE PIEDRA ARQUITECTOS + BURÓ 4







ESQUEMA DE DISTRIBUCIÓN



# RICE WINE FACTORY

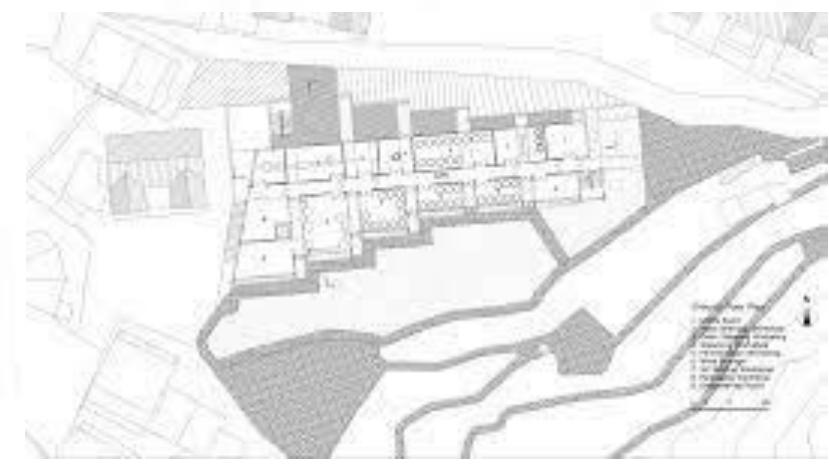
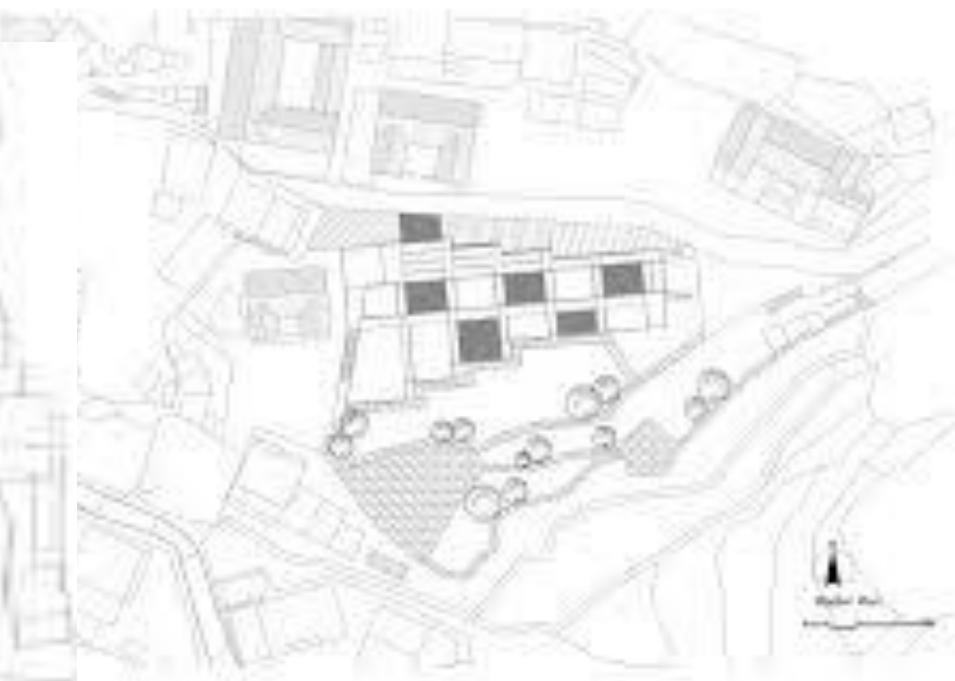
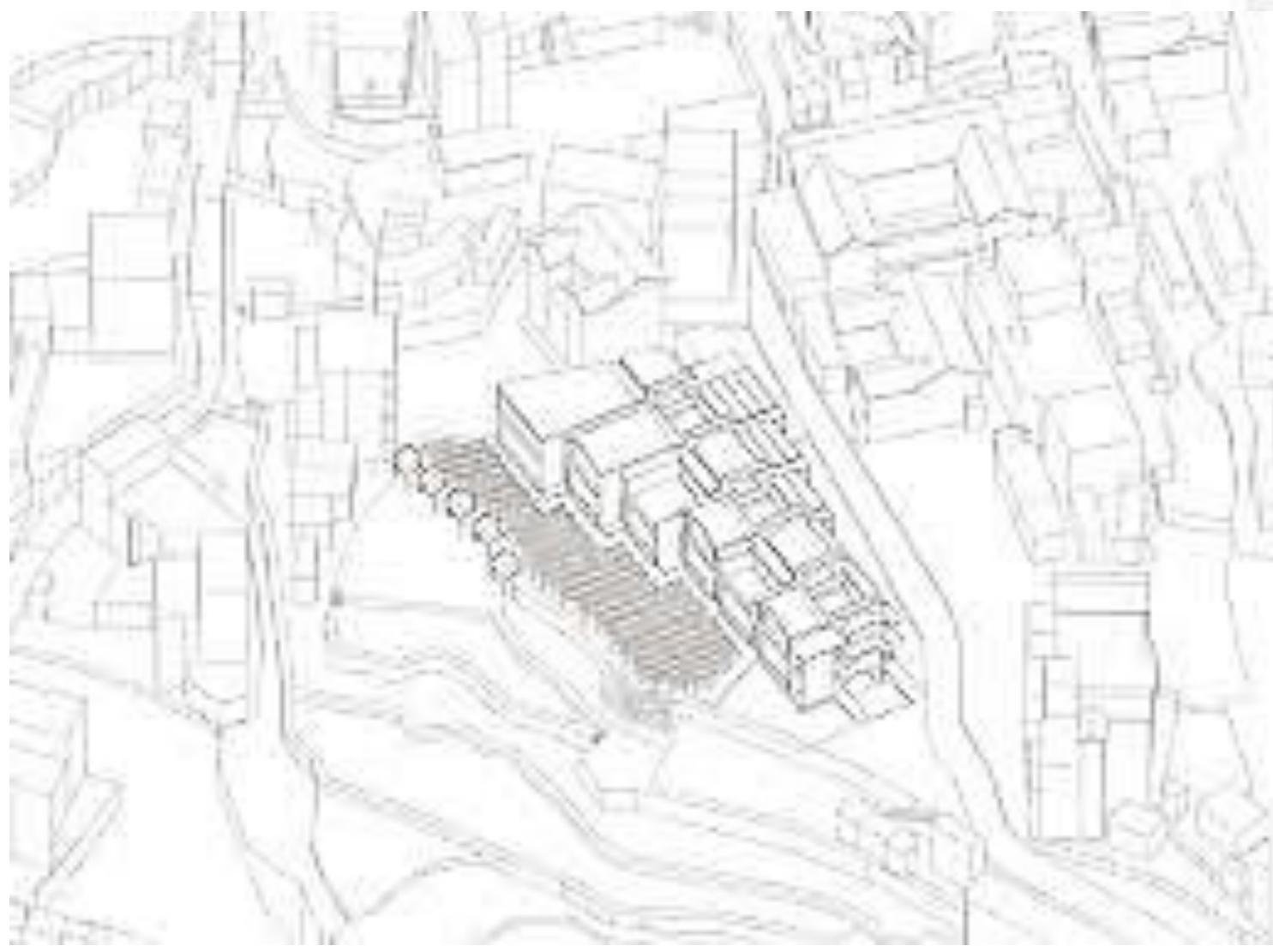
SHANTOU VILLAGE EN DADONGBA TOWN

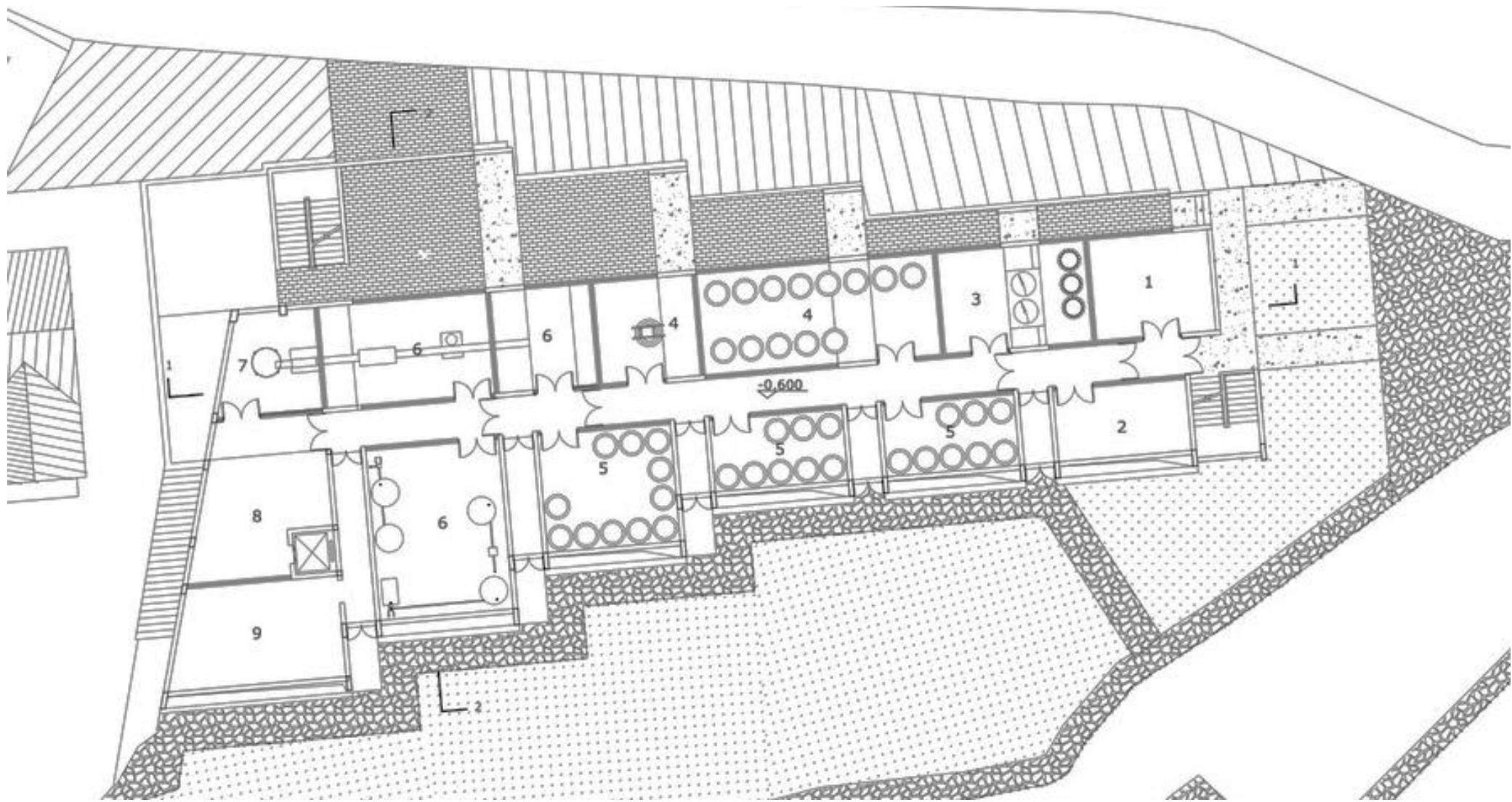
FÀBRICA DE VINO DE ARROZ

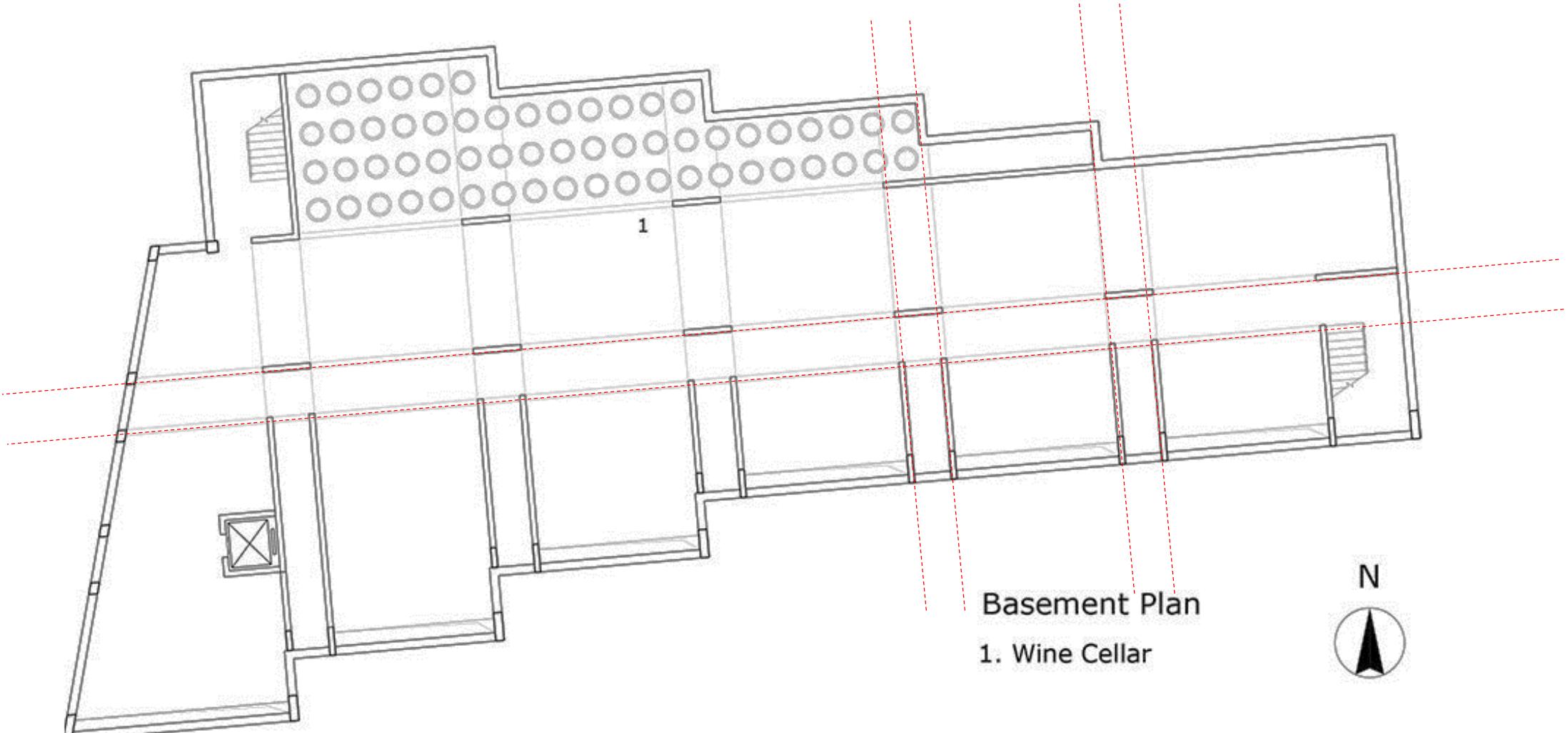
DNA







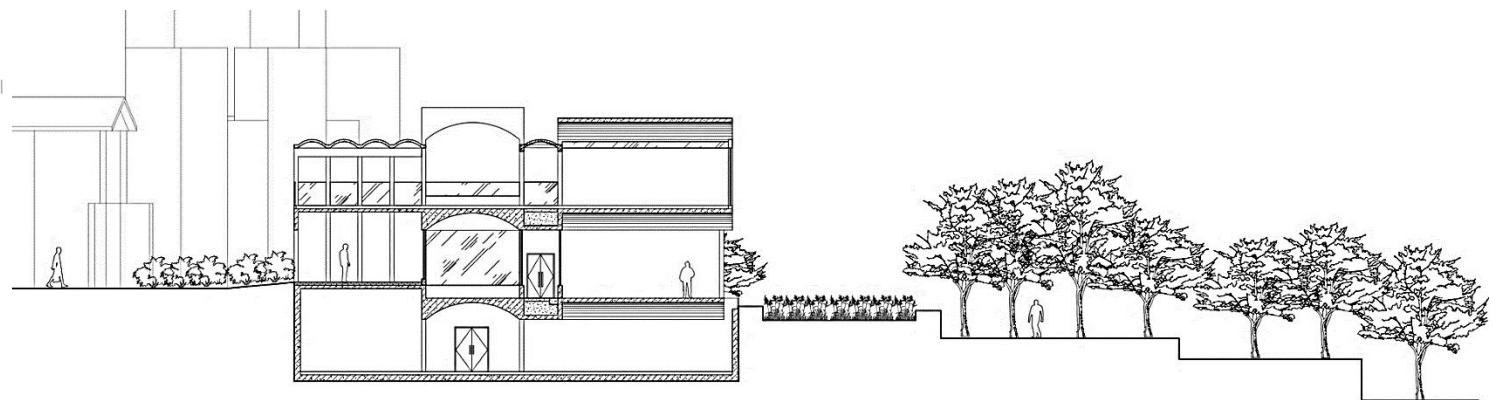
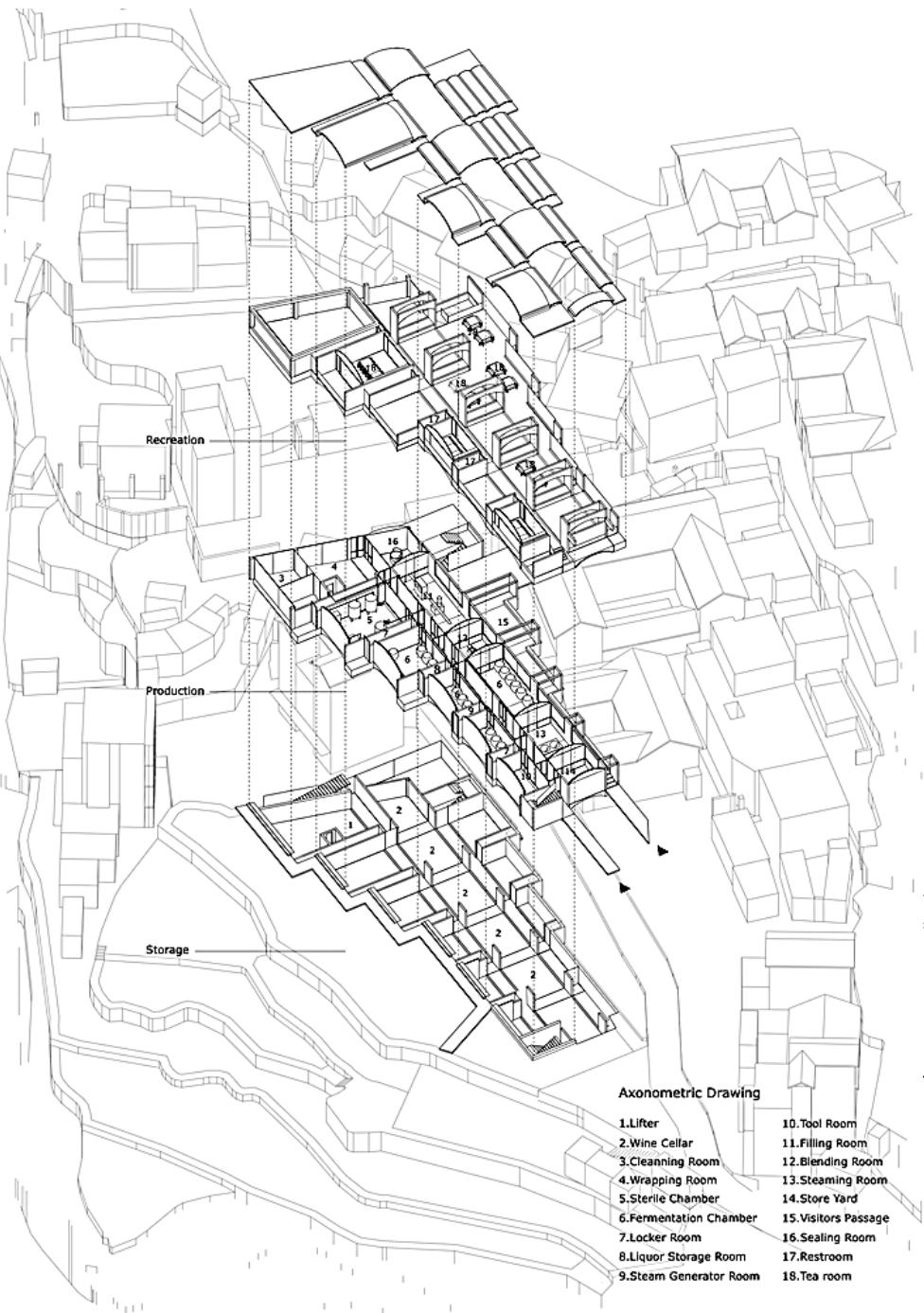




Basement Plan  
1. Wine Cellar



0 2 5 10m

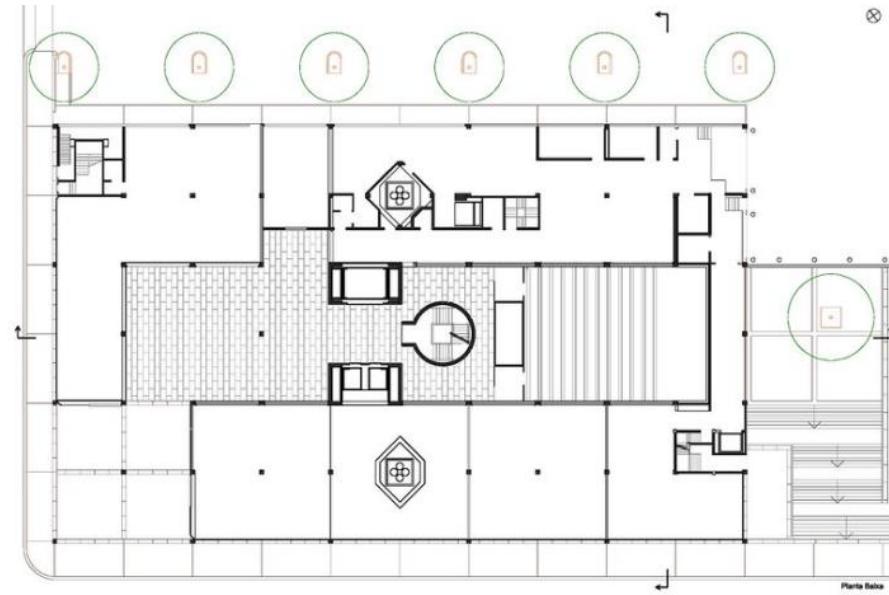


0 1 2 5m

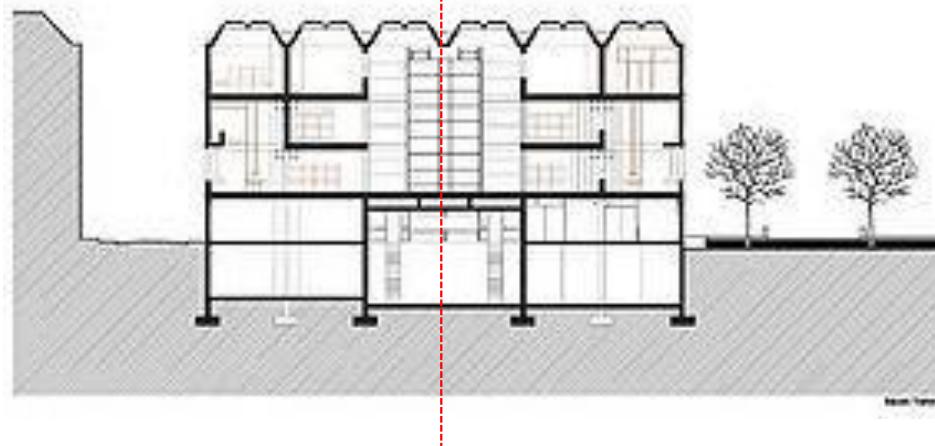


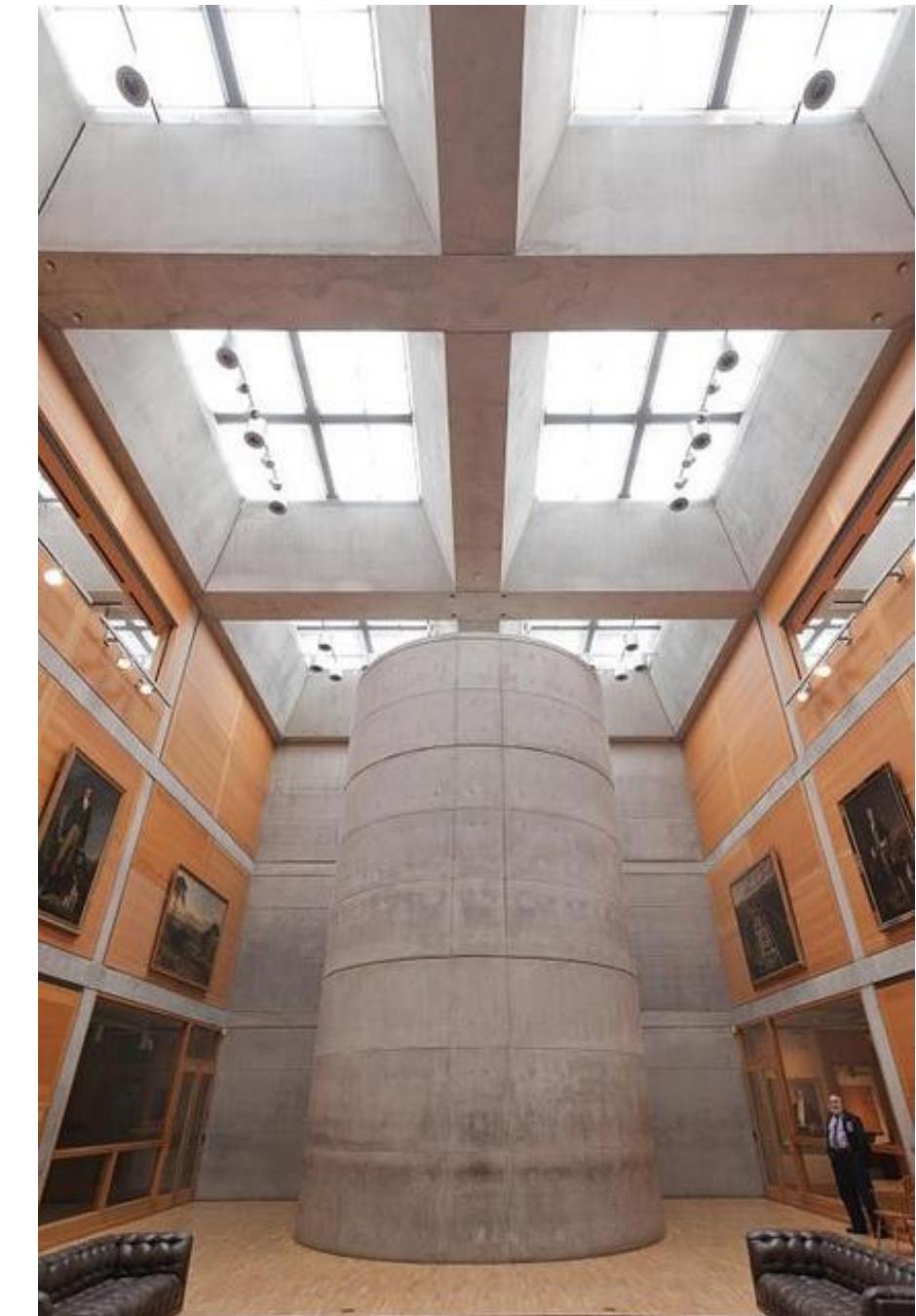
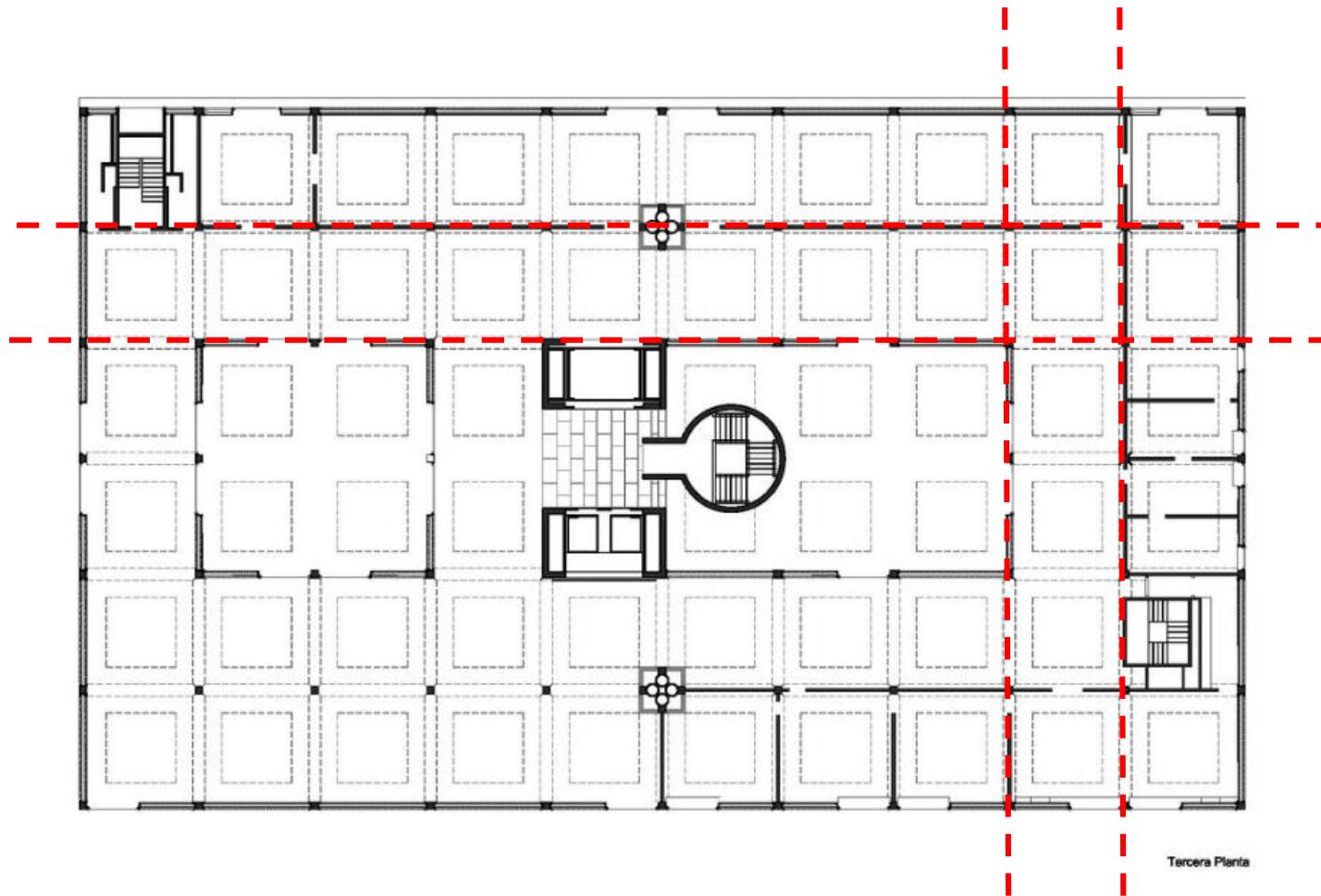
# CENTRO DE ARTE YALE

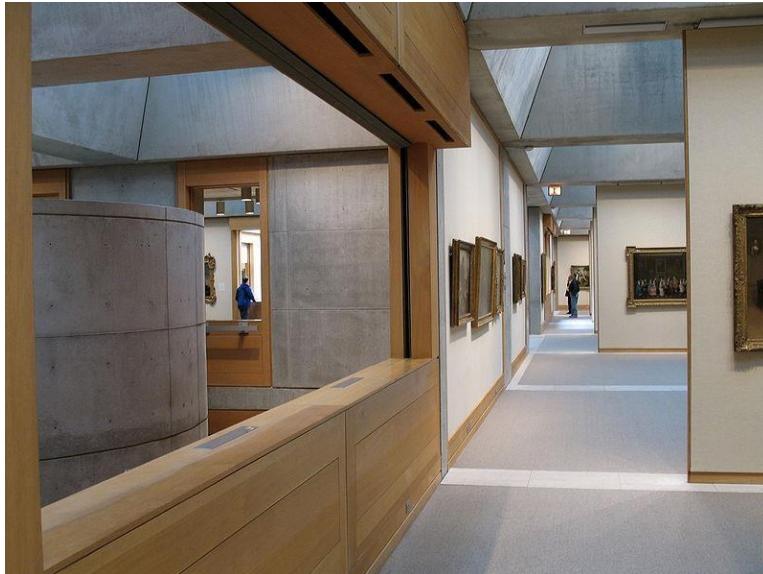
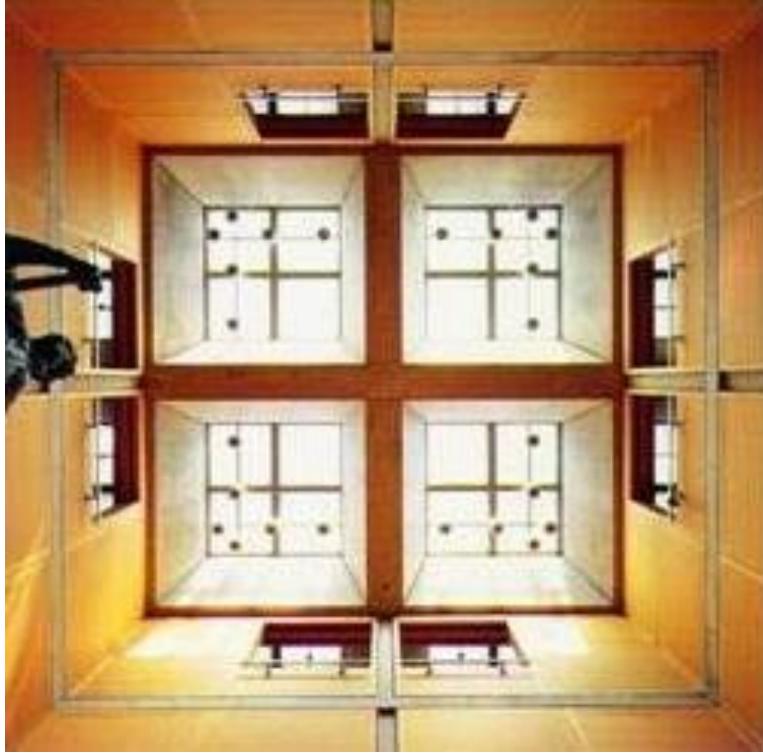
LOUIS KHAN



EJES DE LUZ







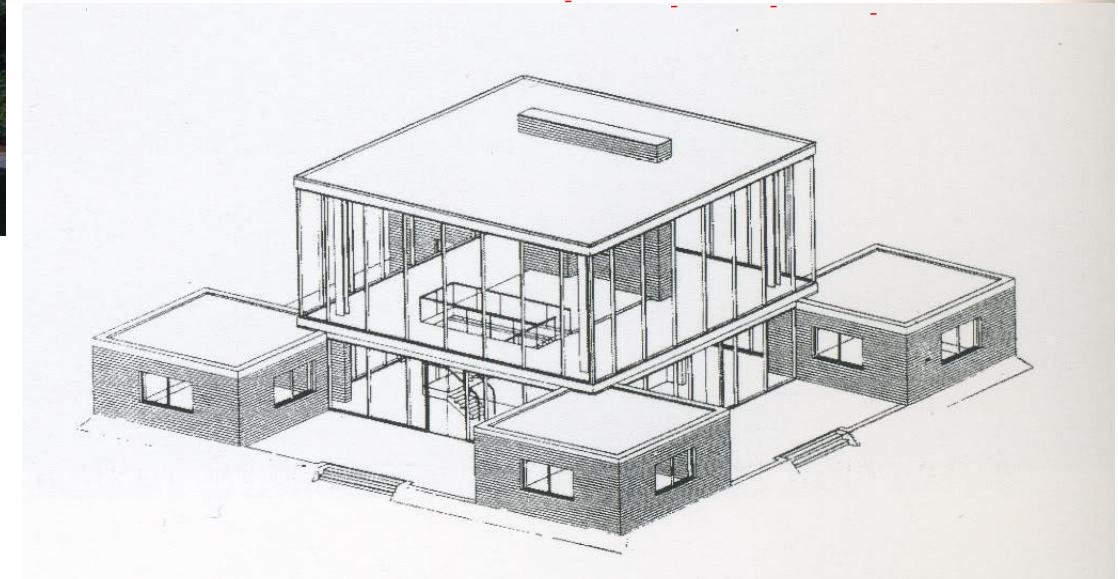
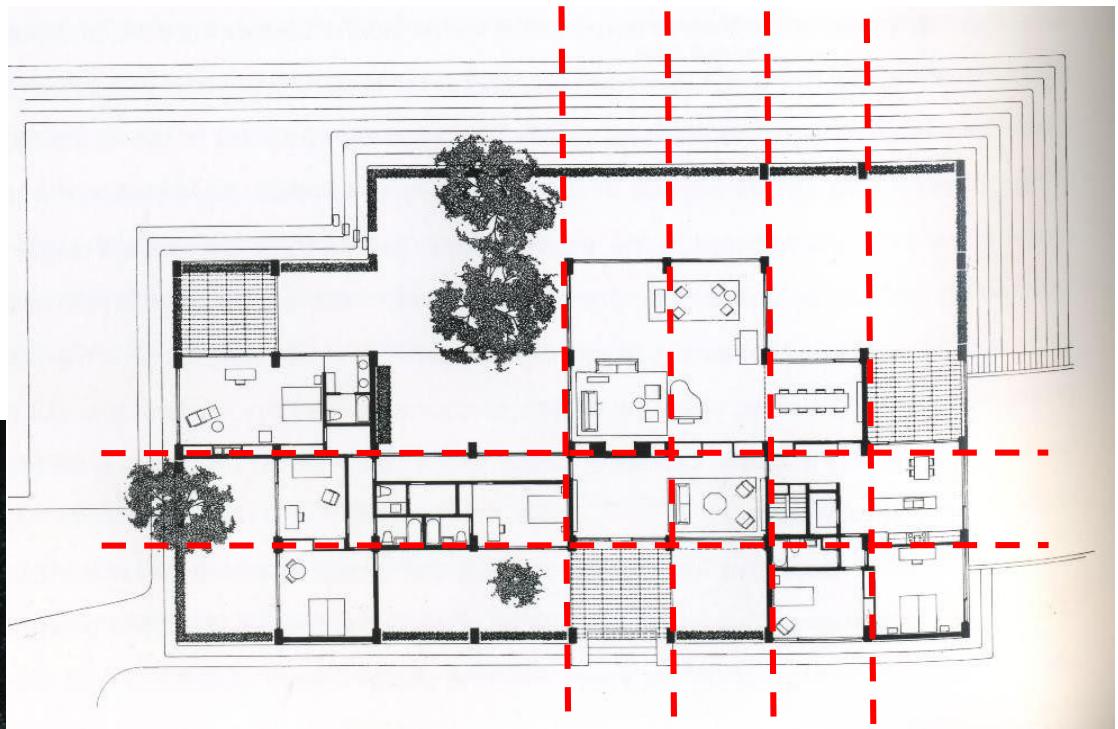


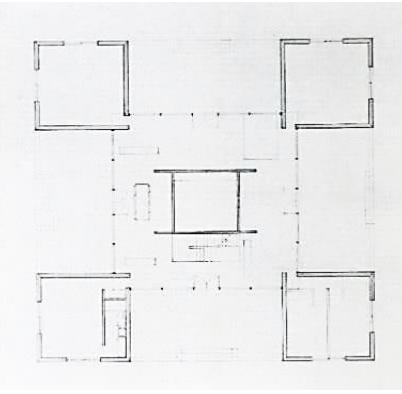
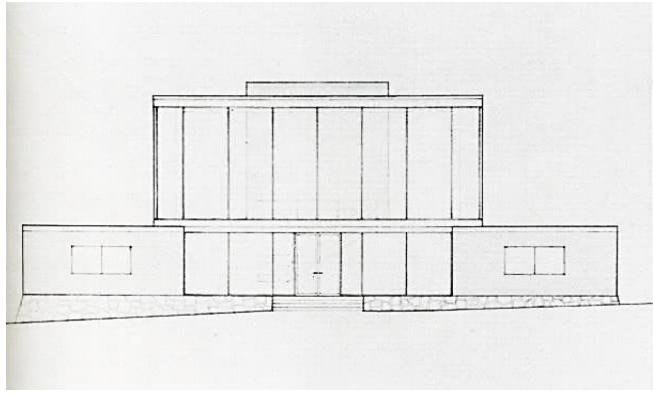
# CASA BOISSONAS 1

NEW CANAAN - CONETICU

, PHILIP JHONSON

1956.



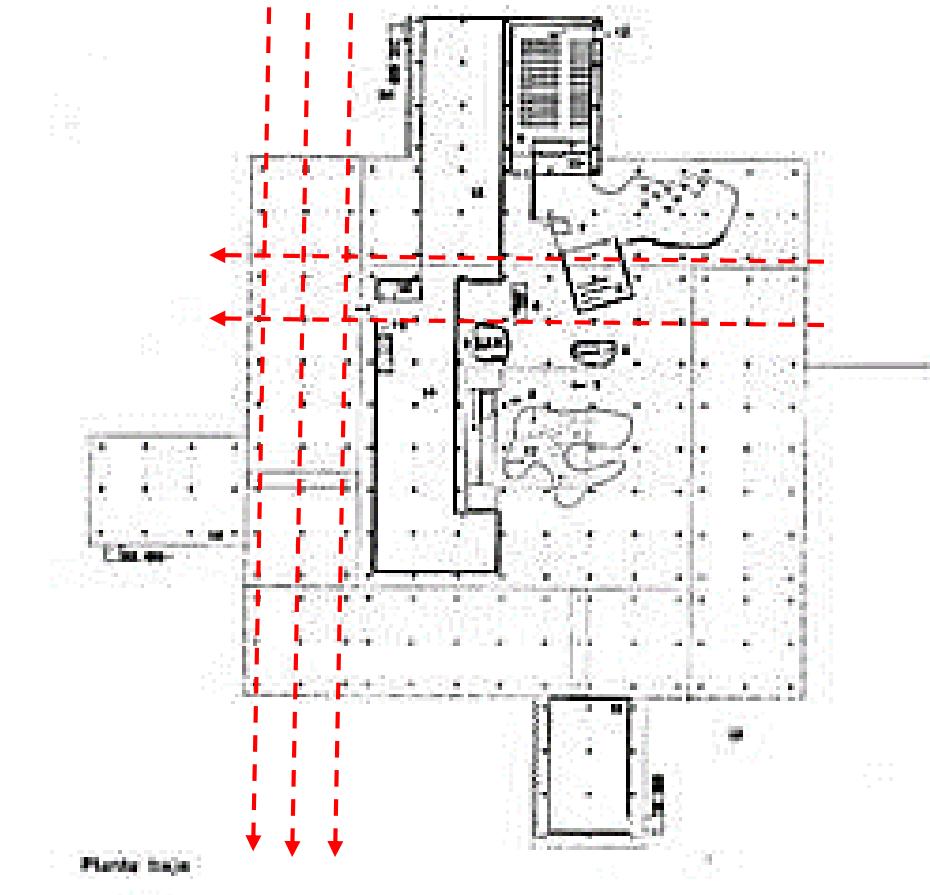


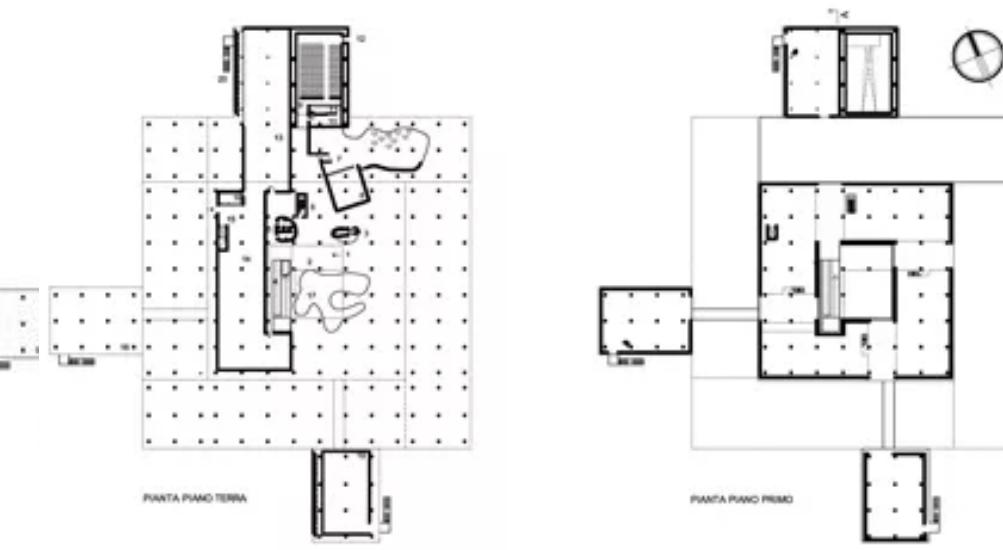
# MUSEO SANSKAR KENDRA

AHMEDABAD, GUJARAT, INDIA

LE CORBUSIER

1956







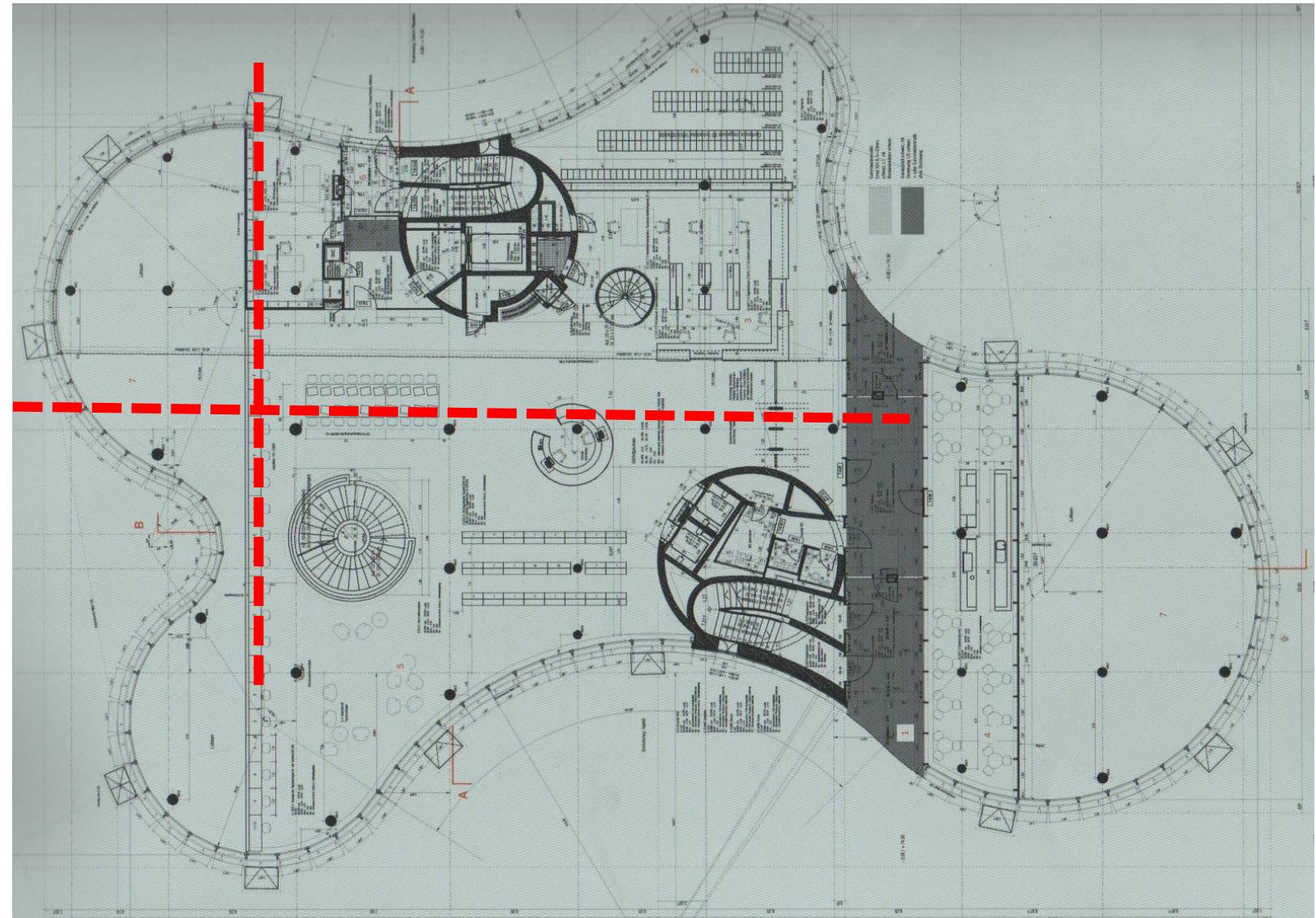
# **RELACIÓN ENTRE EL ORDEN Y LA FORMA**

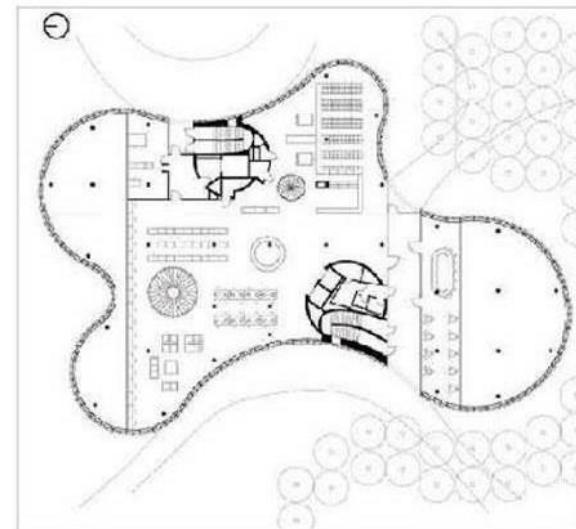
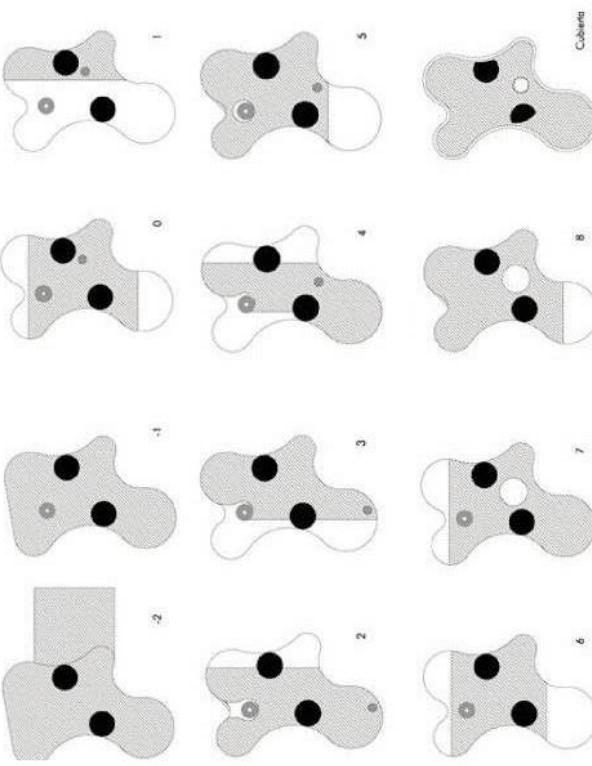
# ORDEN ORTOGONAL EN UNA PLANTA CURVILÍNEA.

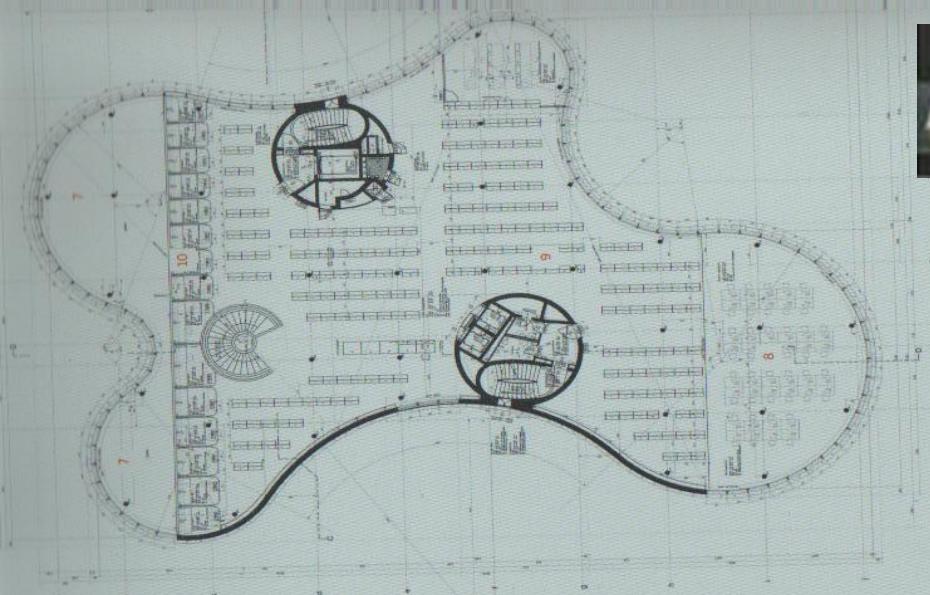
## BIBLIOTECA UNIVERSIDAD DE BRANDBURGO

BRANDBURGO-ALEMANIA

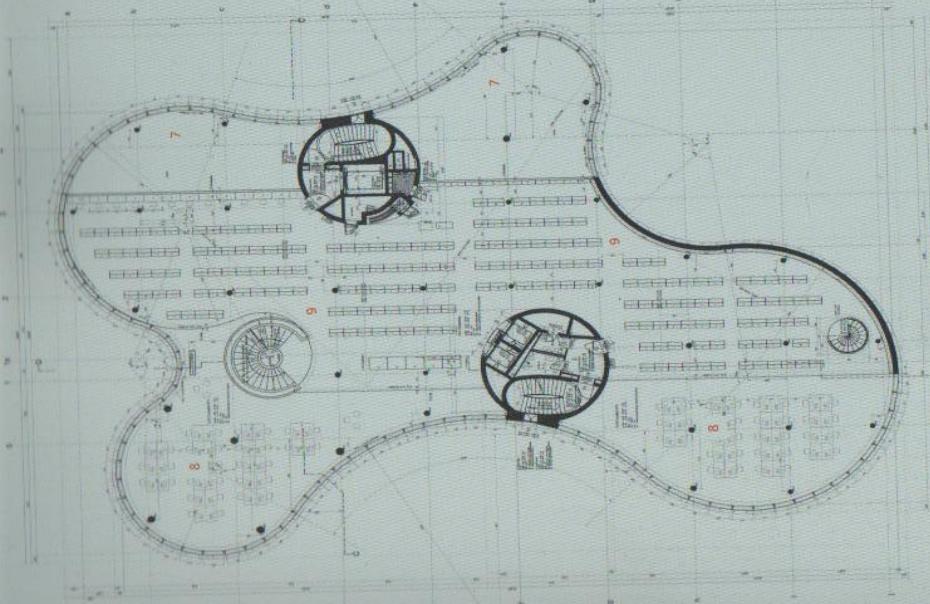
HERZOG AND MEURÓN



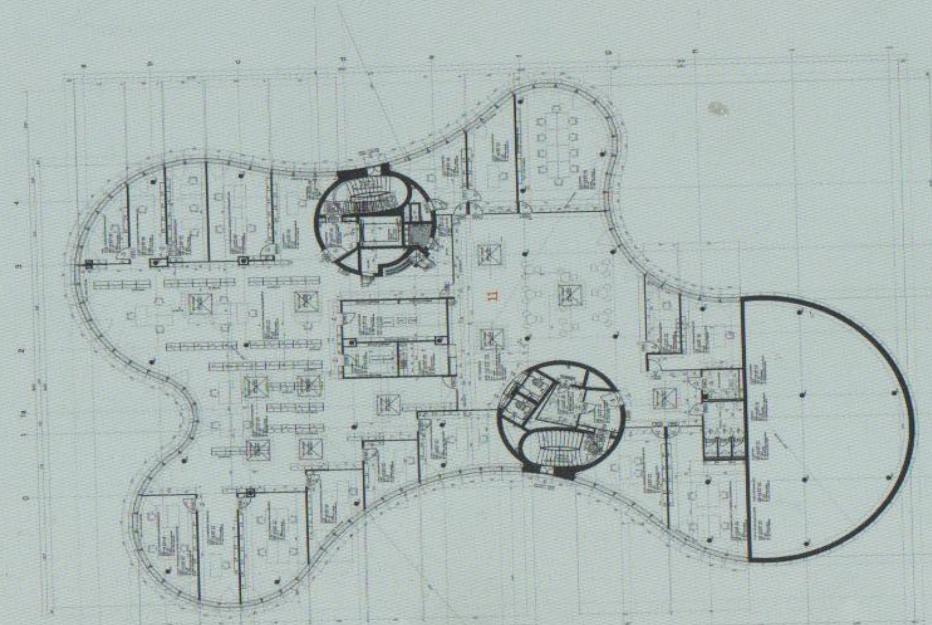




ORDEN



Aún con distintas funciones  
se observa la racionalidad  
del uso del espacio

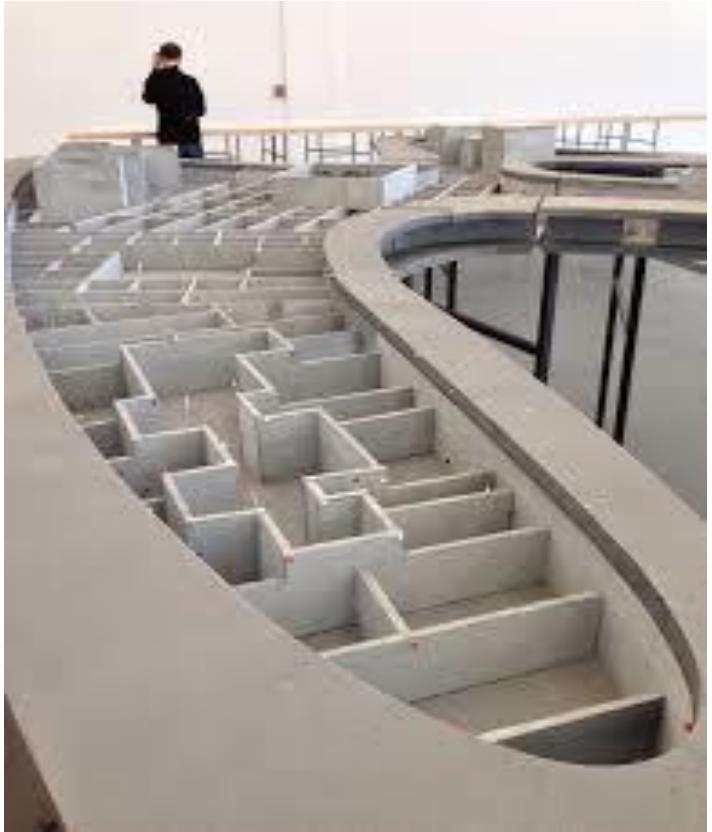


# DISTINTOS ORDENES ORTOGONALES EN UNA PLANTA CURVILÍNEA.

LACMA

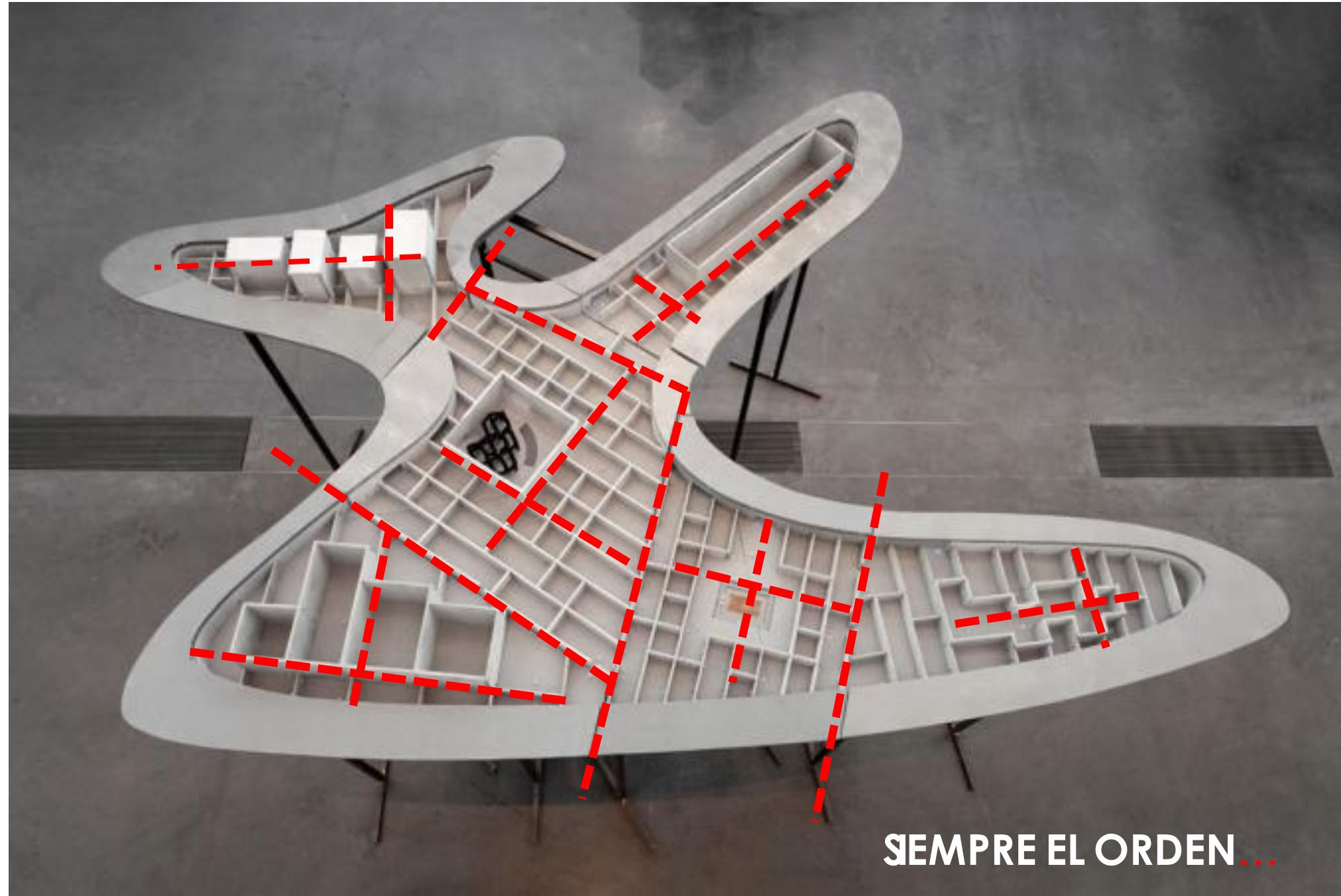
MUSEO DE ARTE DEL CONDADO DE LOS ANGELES  
PETER ZUMTHOR





EL DISEÑO ES DAR FORMA EN EL ORDEN...





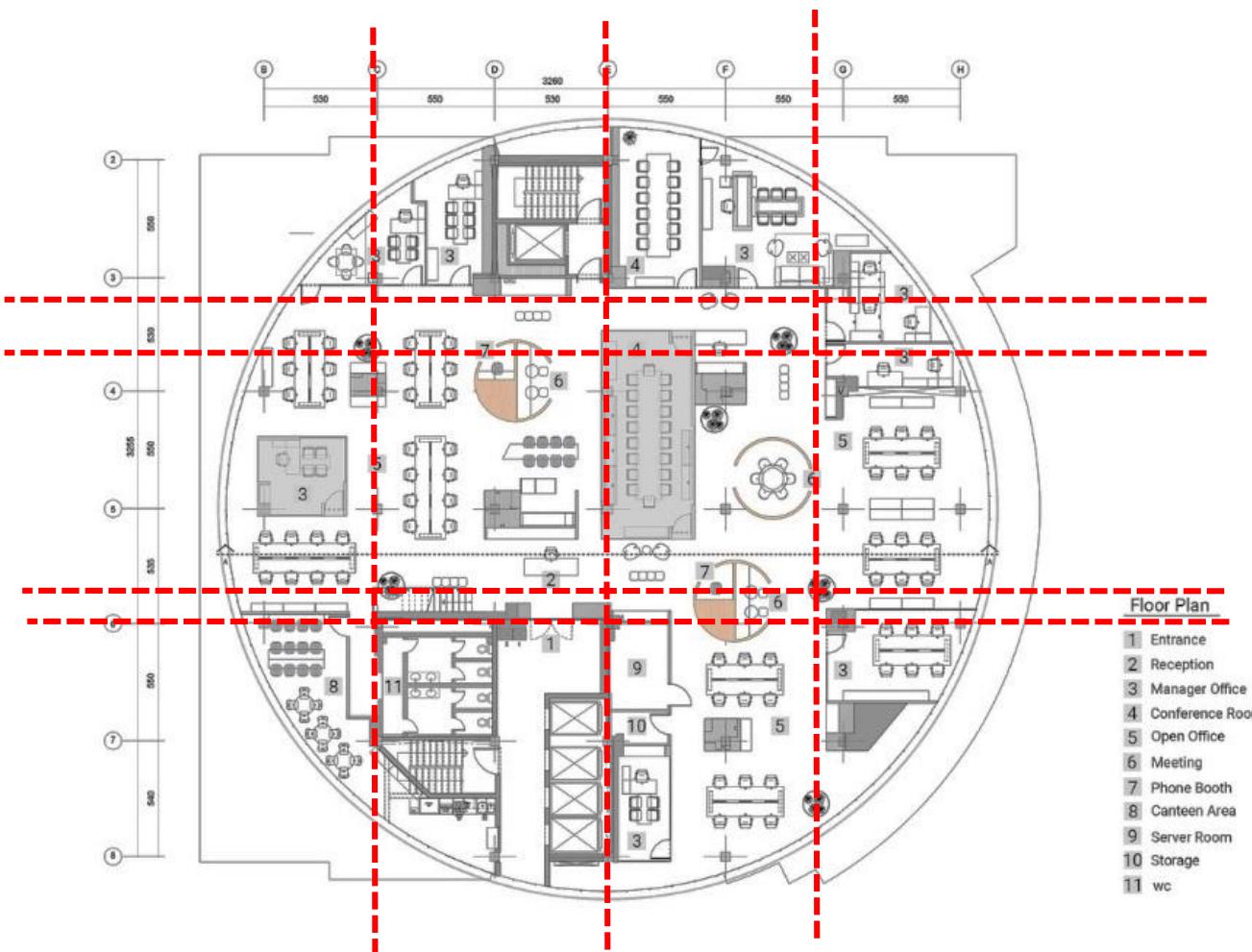
SEMPRE EL ORDEN...

# OFICINA PRIVADA- PERSIAN GARDEN STUDIO

TEHERÁN, IRÁN

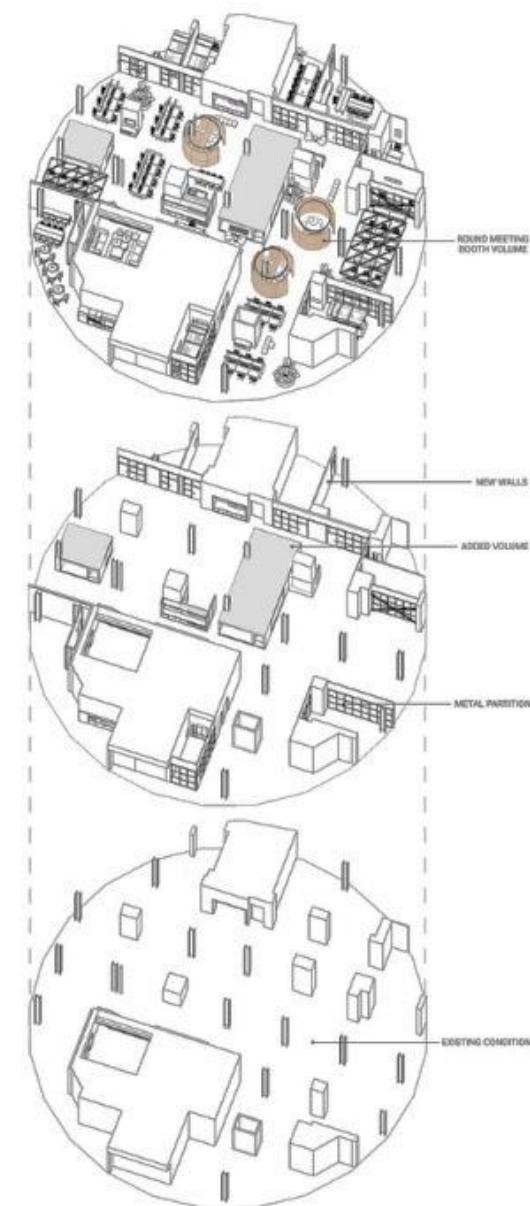
ARQUITECTOS: PERSIAN GARDEN STUDIO

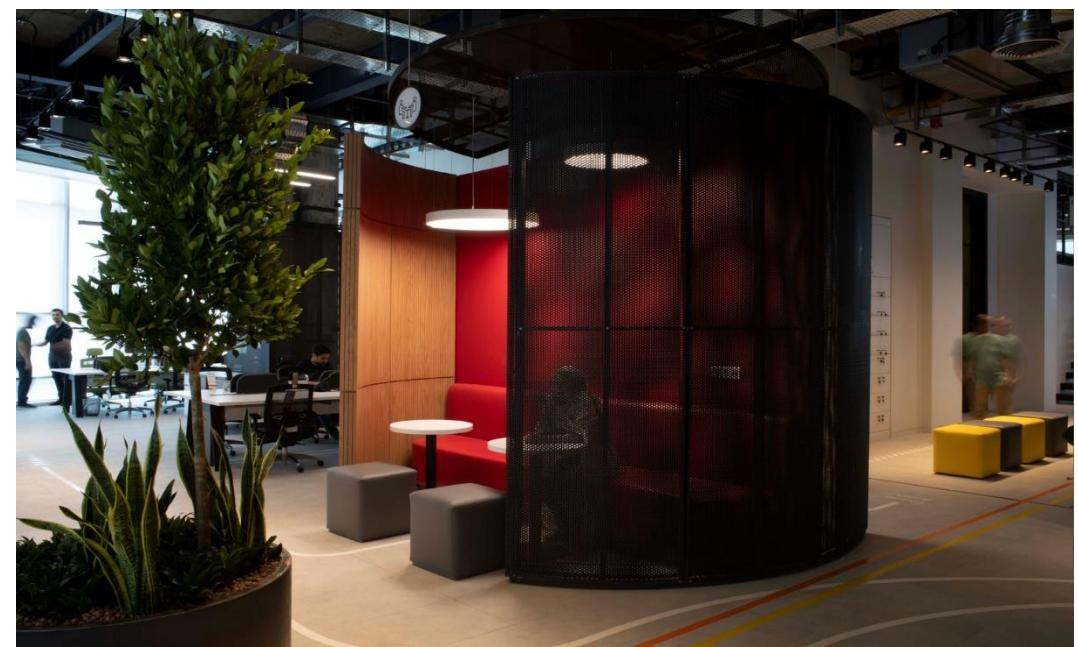
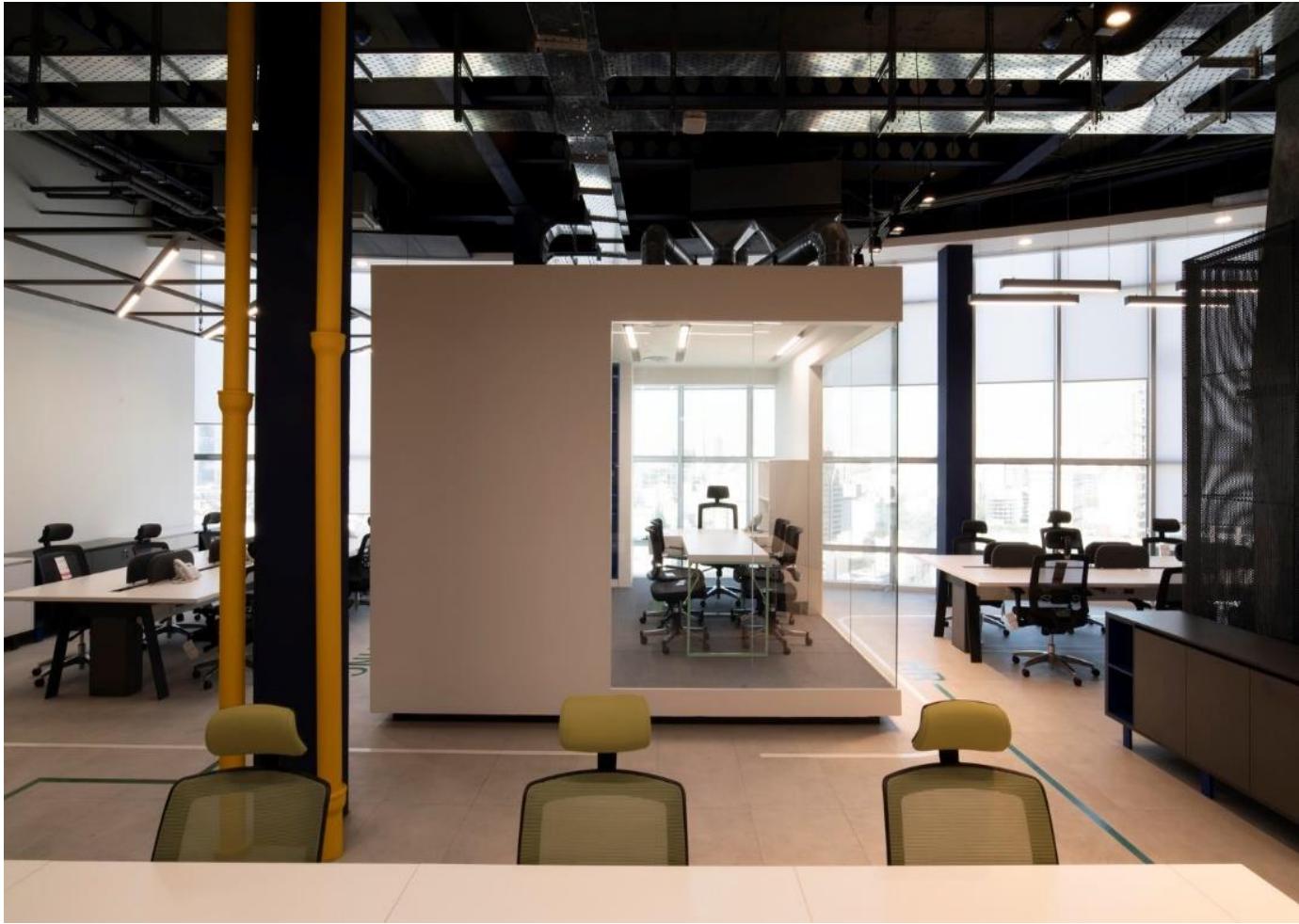
2019

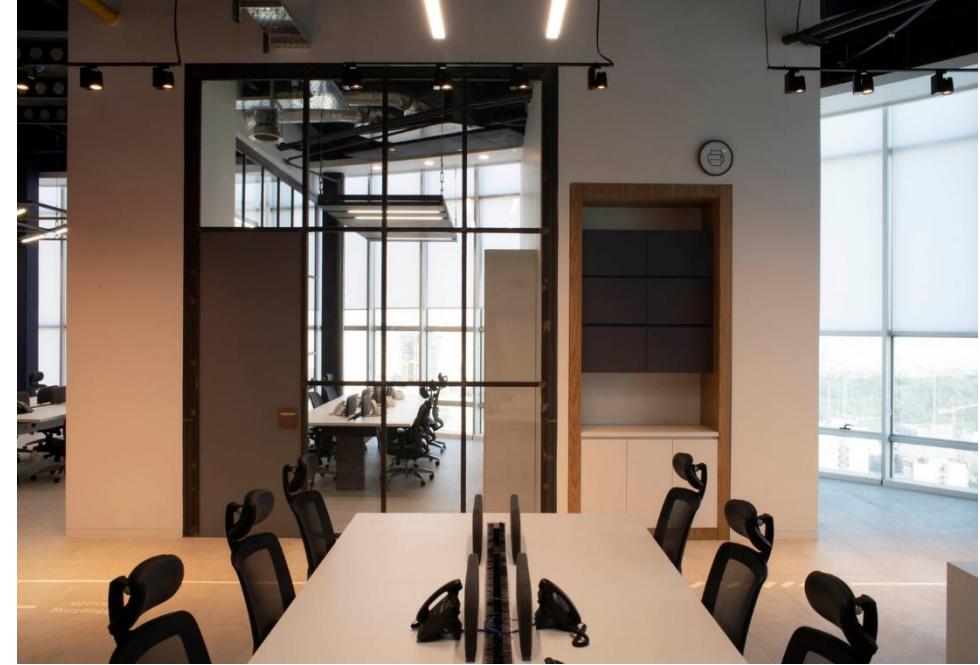
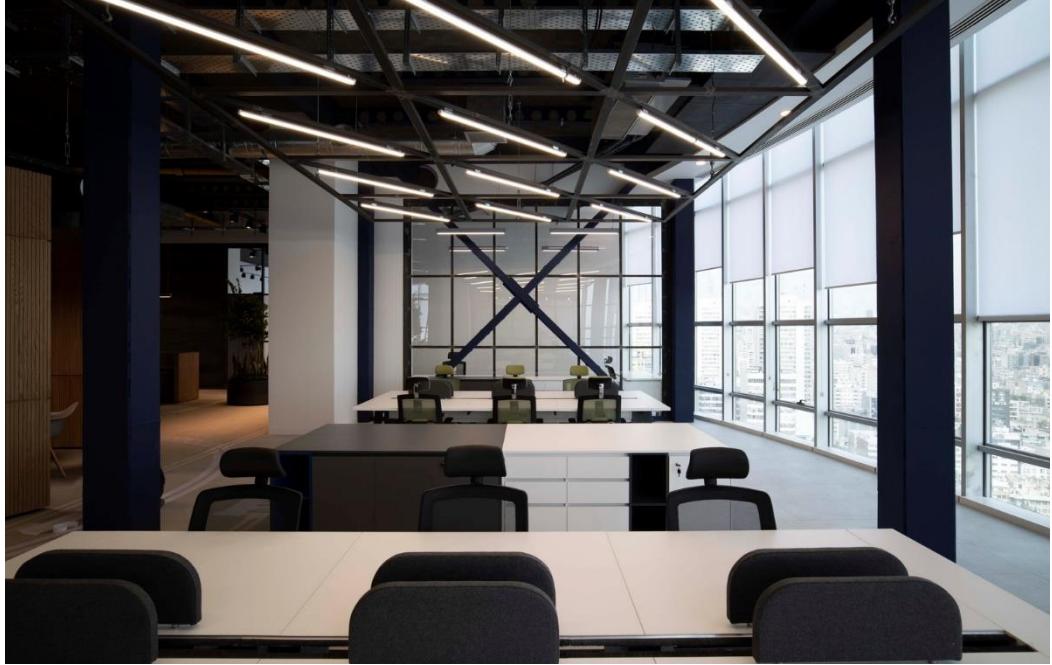


**Floor Plan**

- 1 Entrance
- 2 Reception
- 3 Manager Office
- 4 Conference Room
- 5 Open Office
- 6 Meeting
- 7 Phone Booth
- 8 Canteen Area
- 9 Server Room
- 10 Storage
- 11 wc



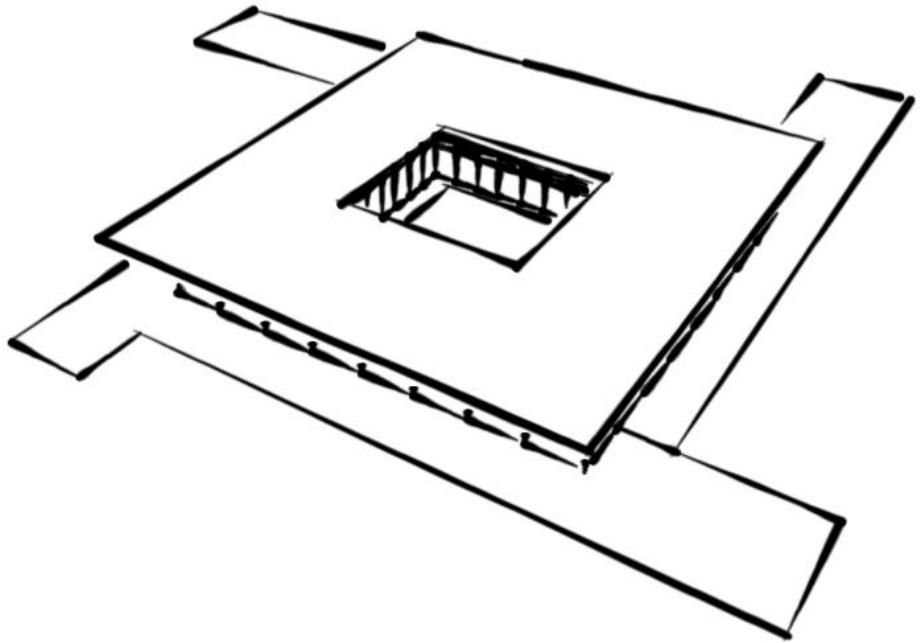




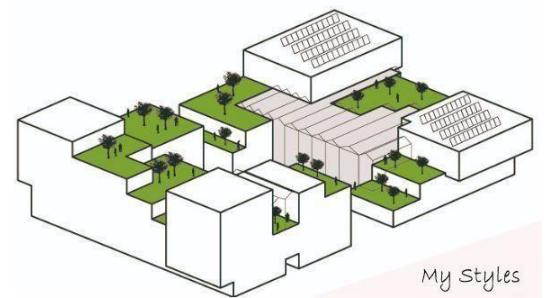
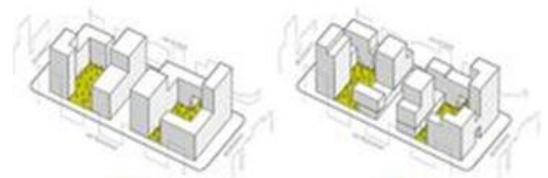
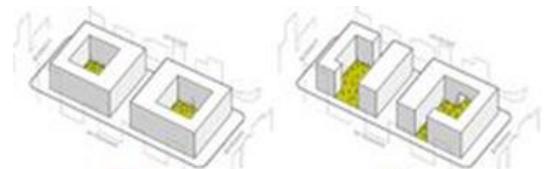
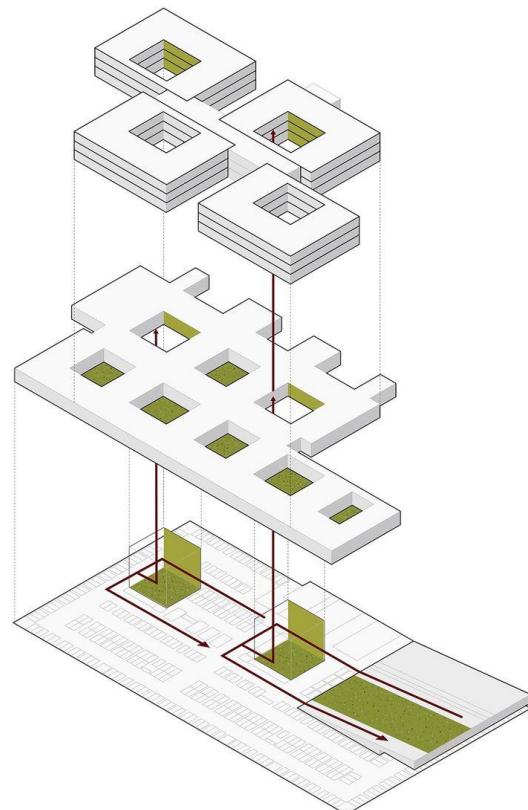
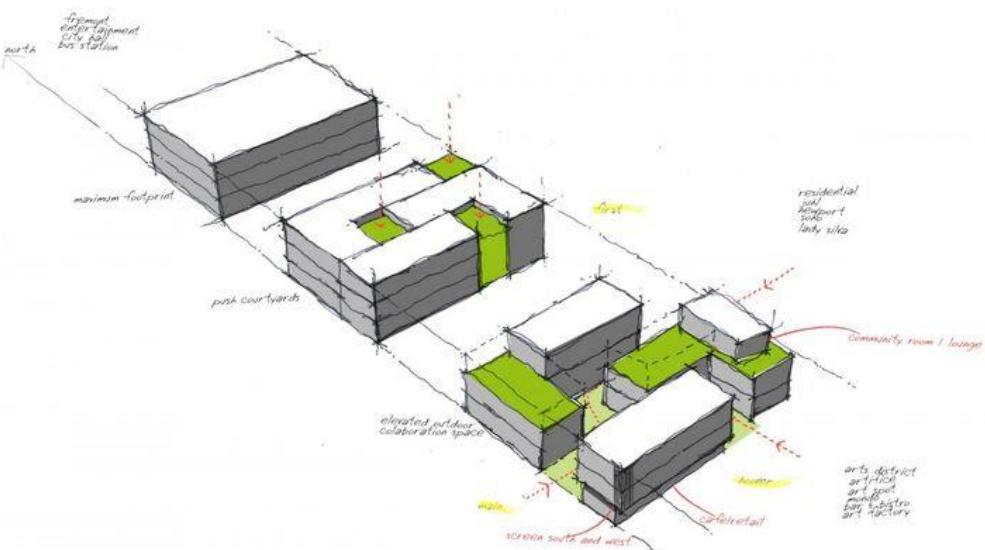
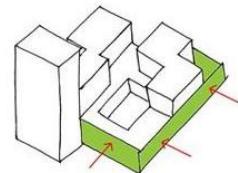
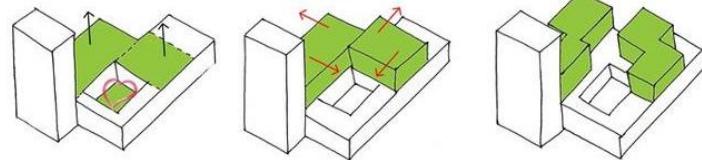
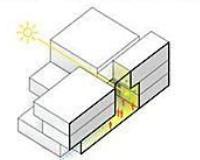
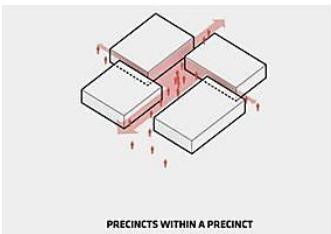
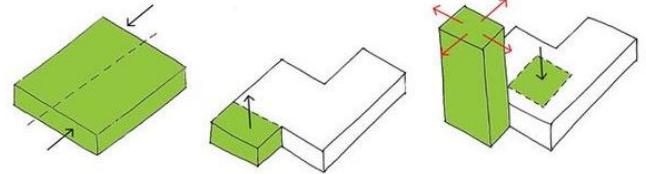
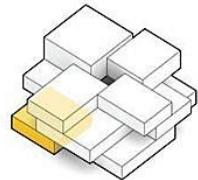
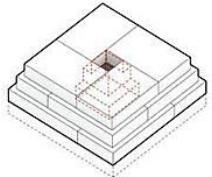
**ESPACIOS  
ORDENADORES**

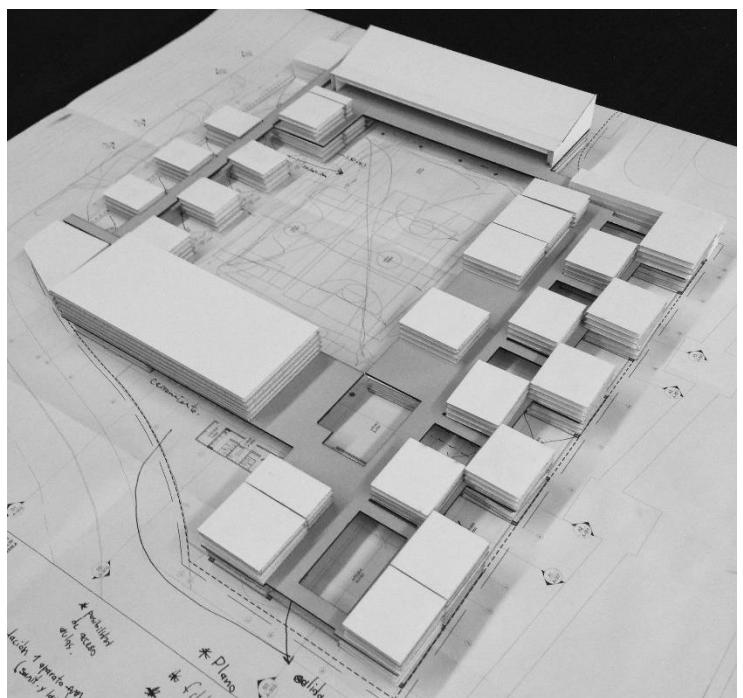
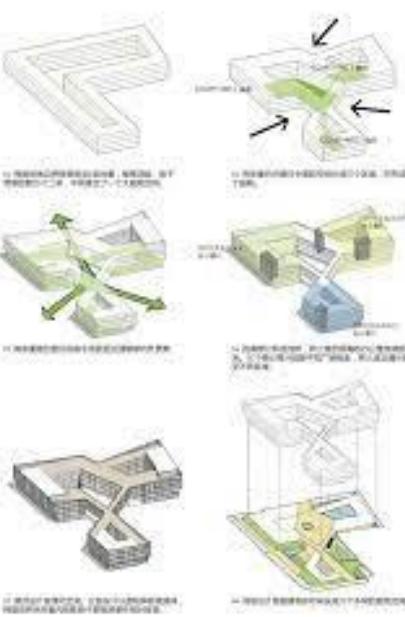
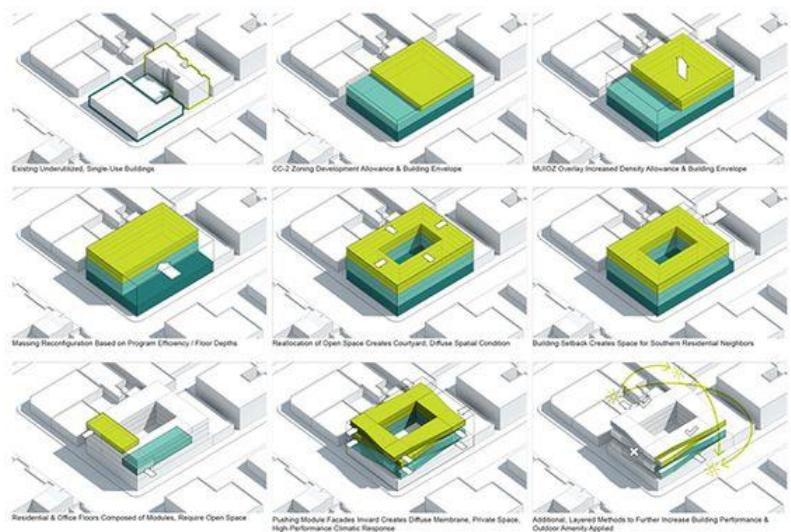
**3**

**PATIO  
CLAUSTRO  
CALLE**



UN PATIO...





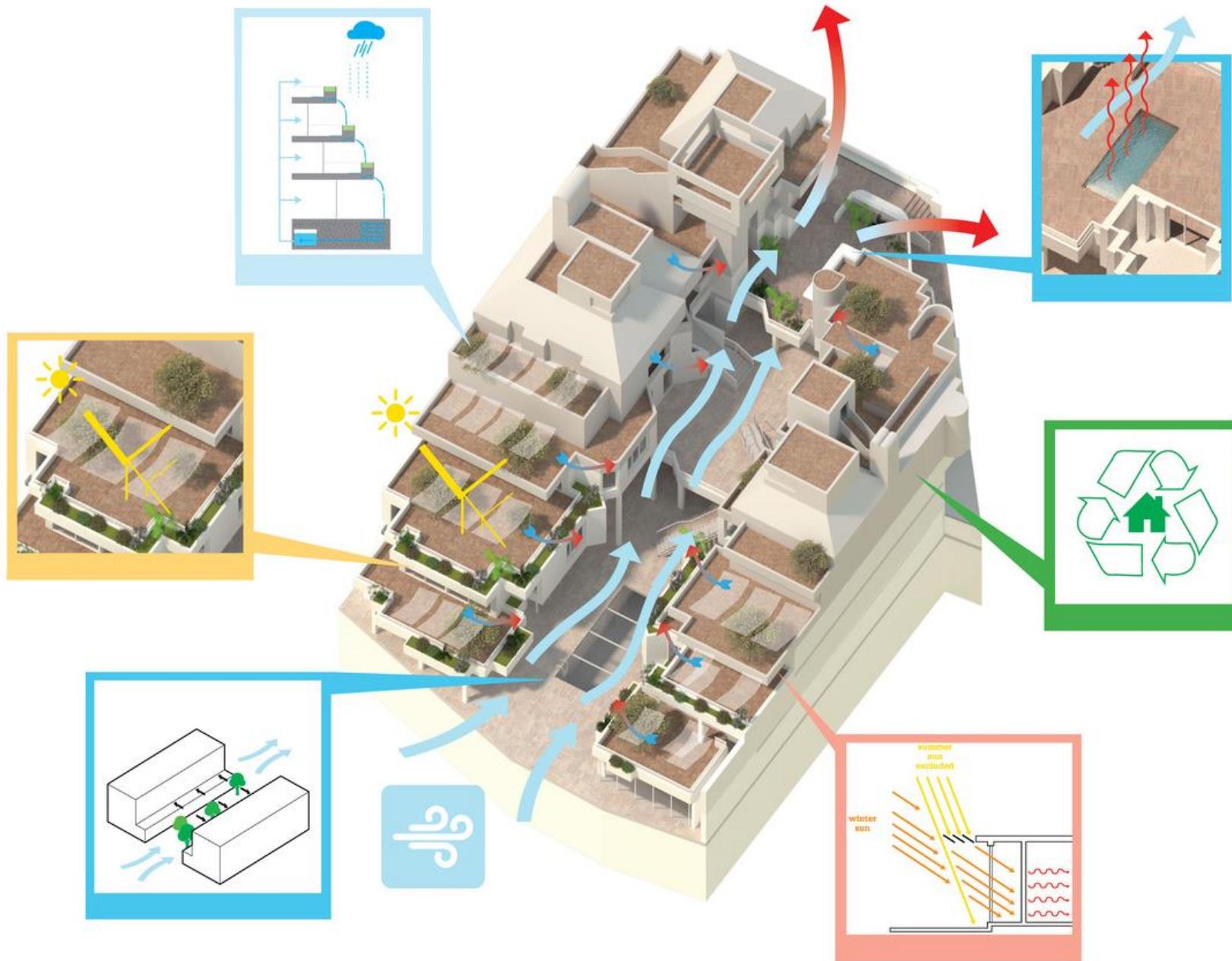
# PROYECTO GOMILA

PALMA, ESPAÑA

MVRDV + GRAS REYNÉS ARQUITECTOS

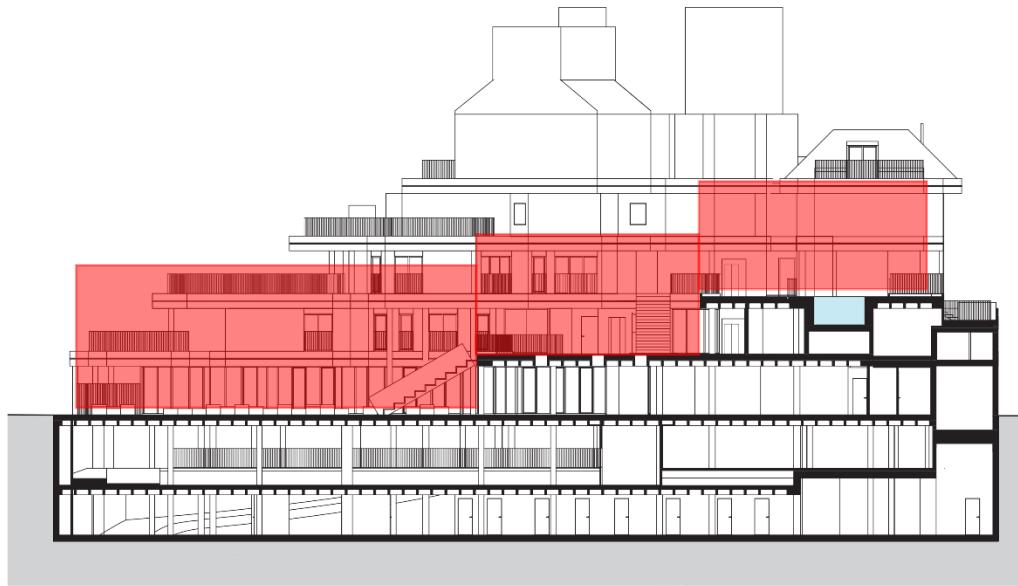
Año:2022







1 Terra  
2 Las Fabri-Casas  
3 La Plaza  
4 El Súper  
5 Gomila Centre  
6 Las Casitas  
7 Casa Virginia  
(in construction)

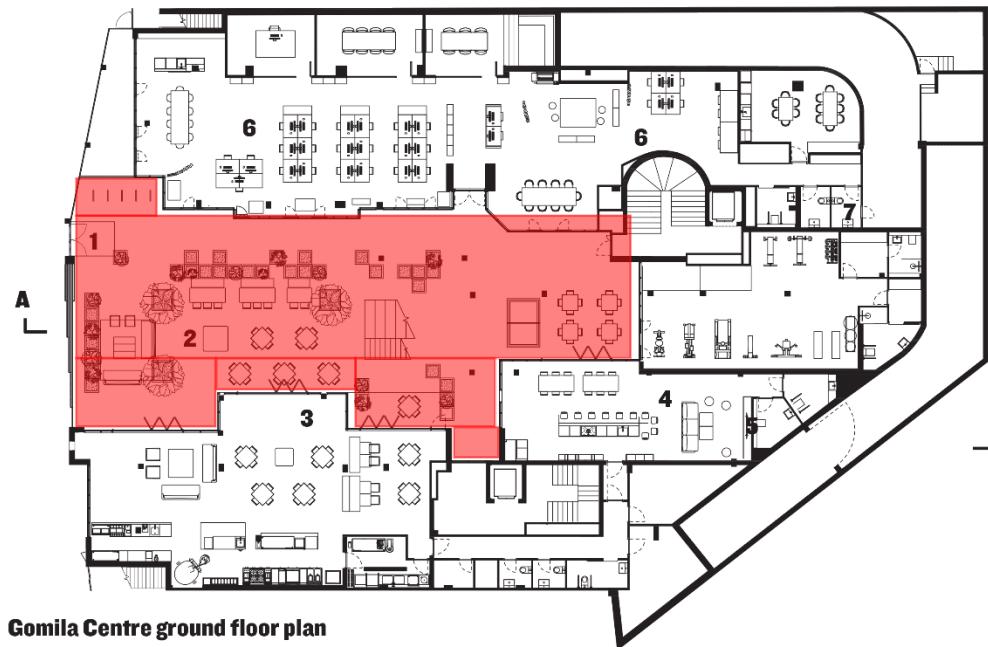


1 entrance  
2 courtyard  
3 restaurant  
4 residents' dining space (*txoko*)  
5 gym  
6 office  
7 ramp to car parking

0 3m



section AA



Gomila Centre ground floor plan





# HOTEL THE FONTENAY

HAMBURGO, ALEMANIA

STÖRMER MURPHY AND PARTNERS

2018





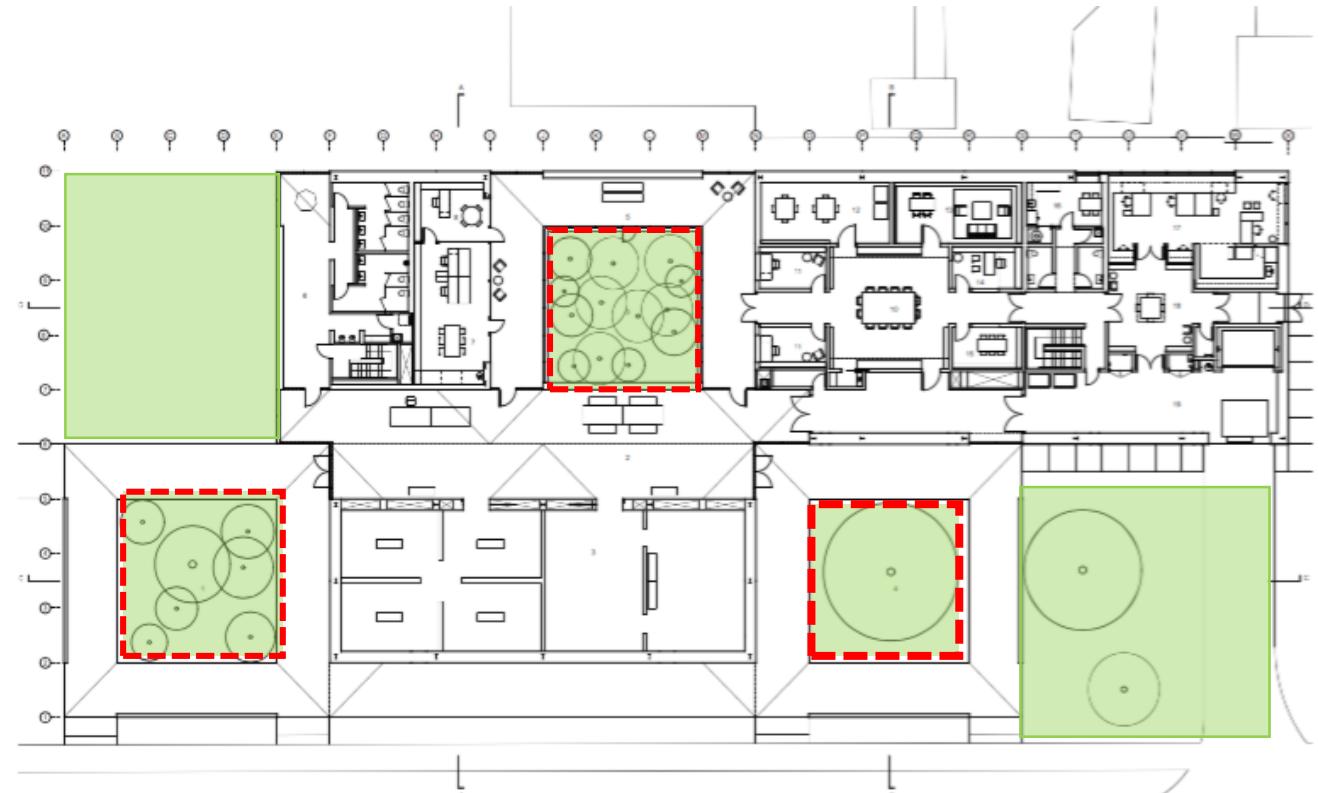




# MENIL DRAWING INSTITUTE

HOUSTON-ESTADOS UNIDOS

JOHNSTON MARKLEE-SHARON JOHNSTON





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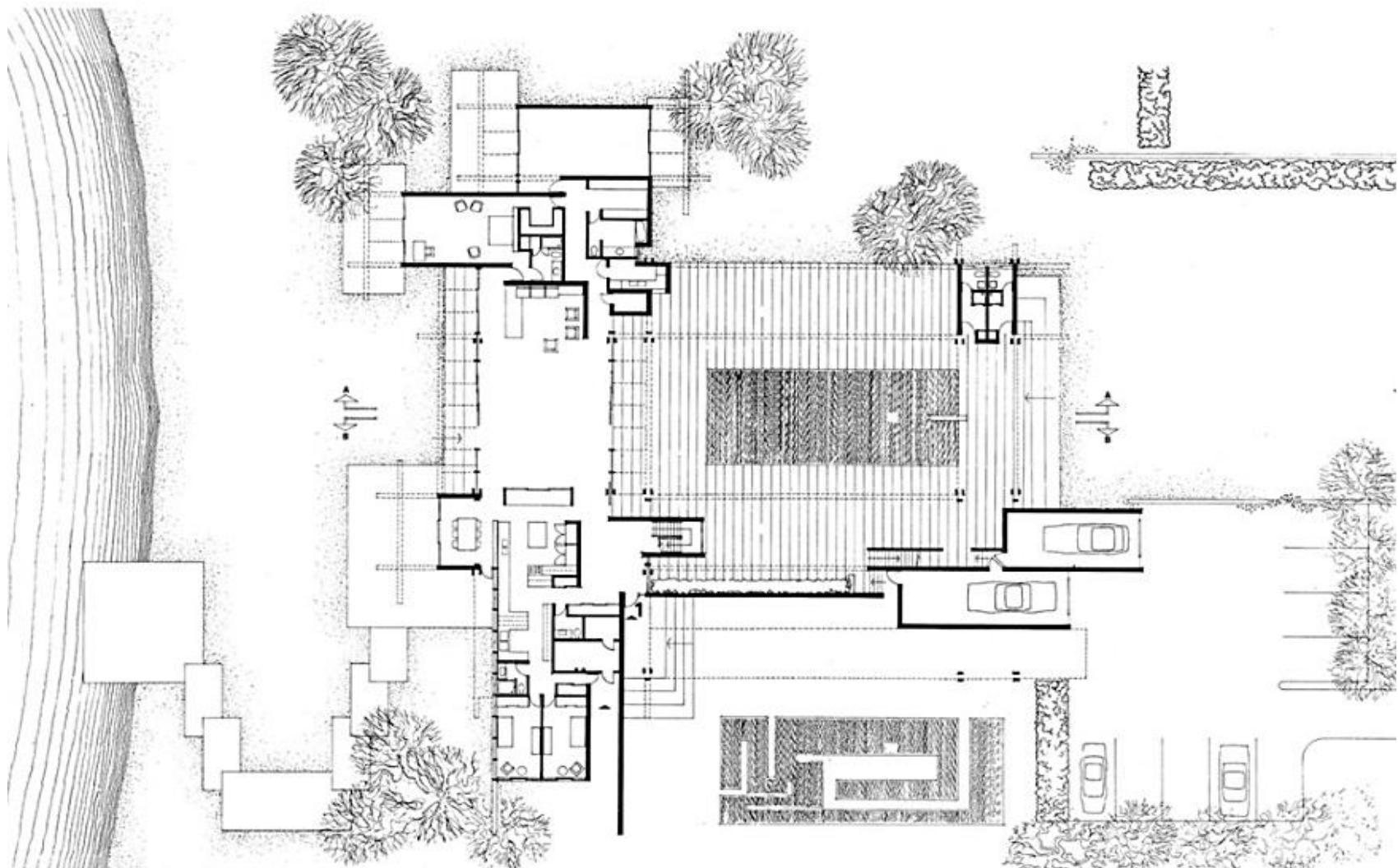
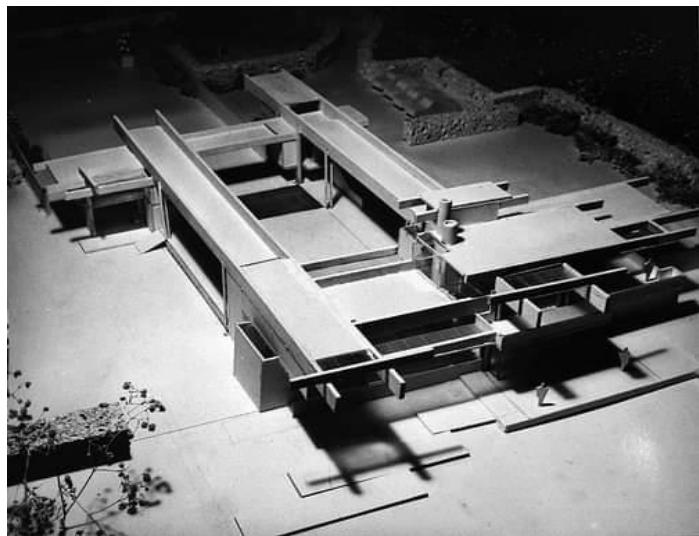


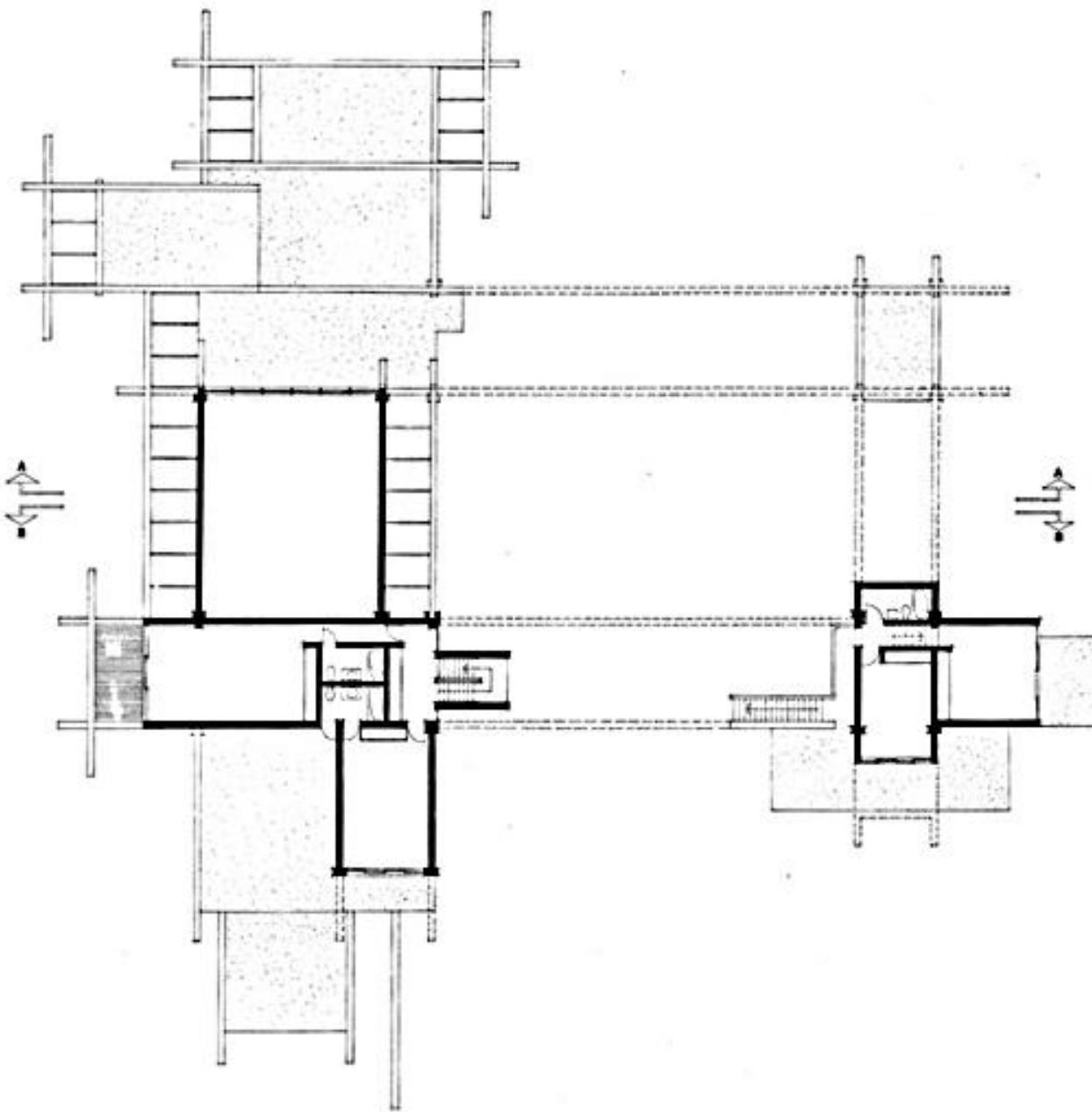
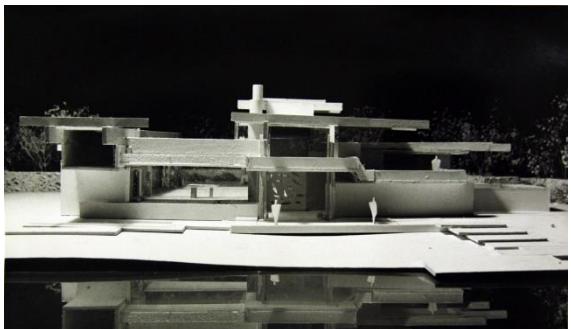
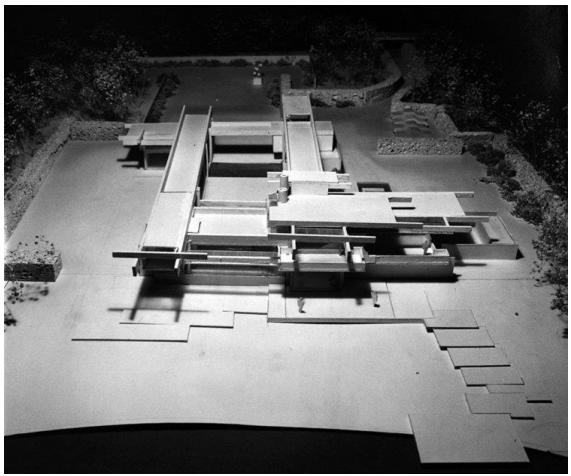
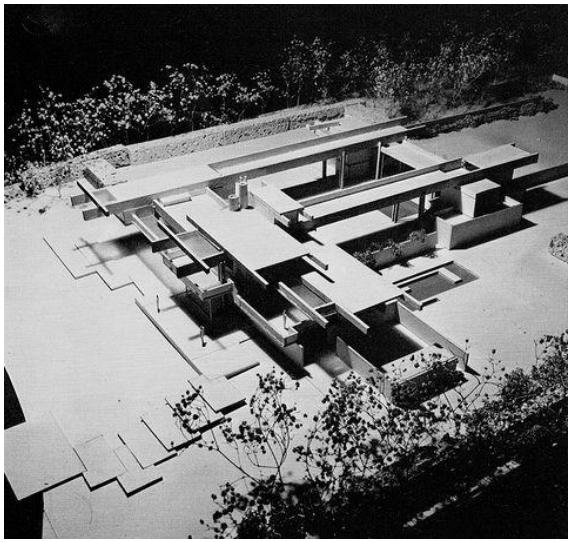


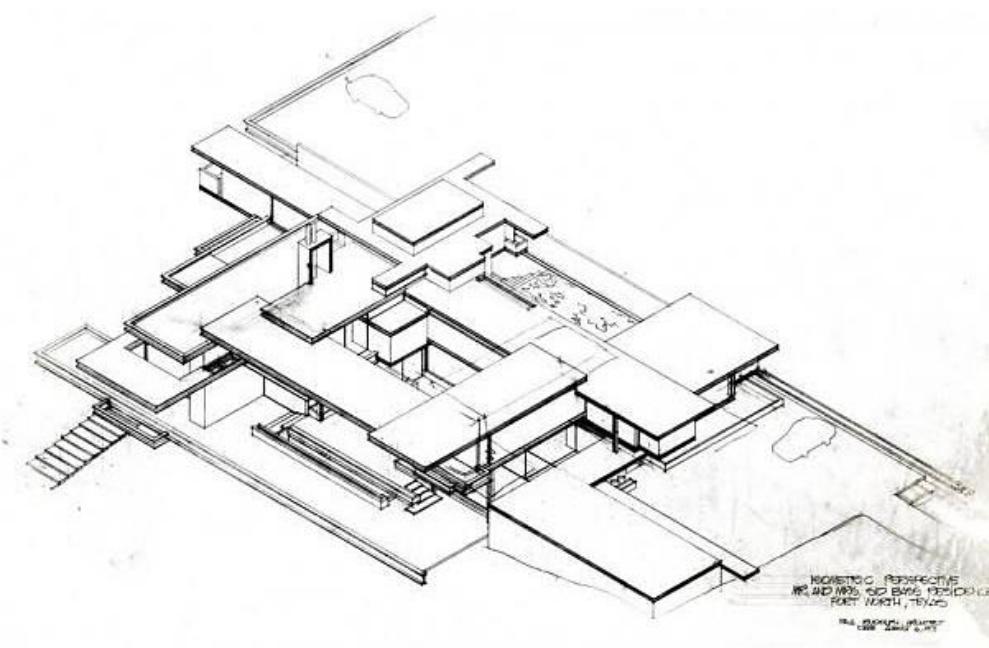
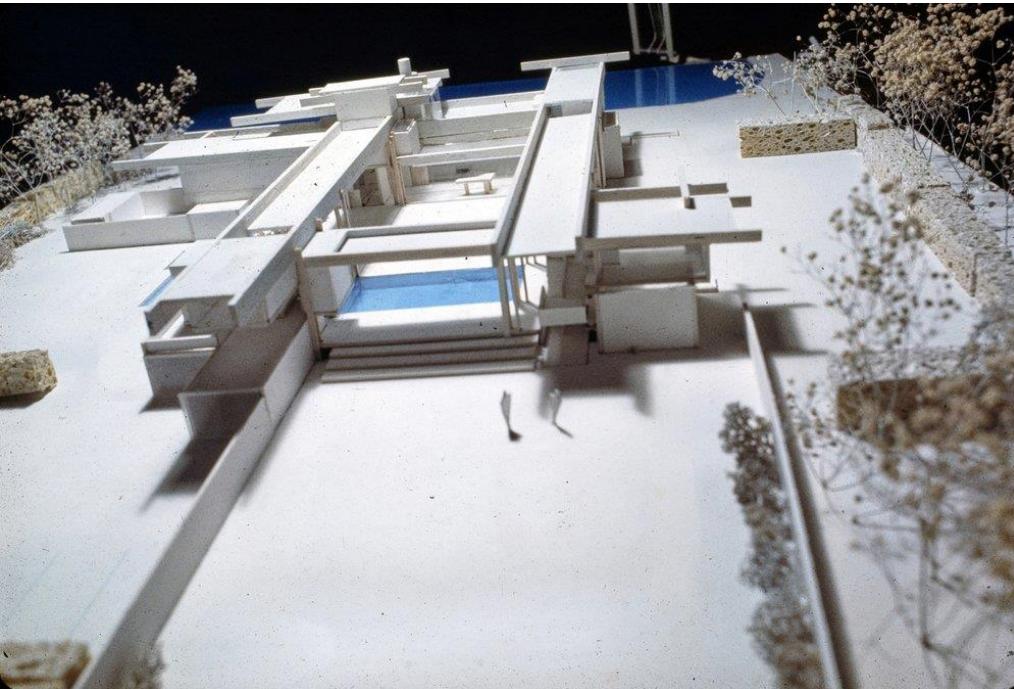
# PISTELL RESIDENCE

## LYFORD CAY, NASSAU, BAHAMAS

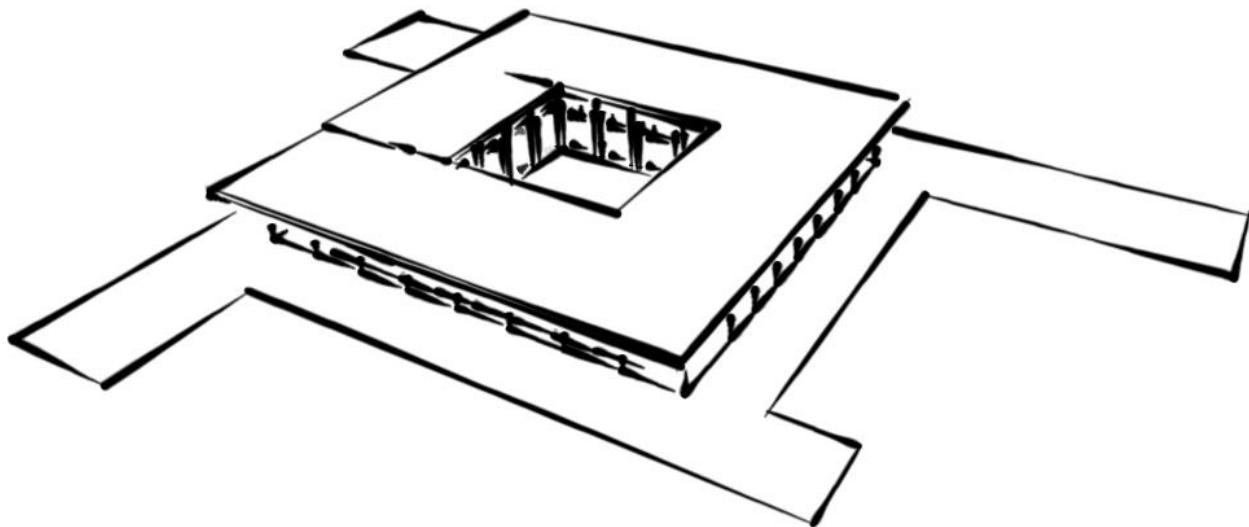
PAUL RUDOLPH  
1969











UN CLAUSTRO...





# PLATAFORMA DE ARTE DE SUNCHEON

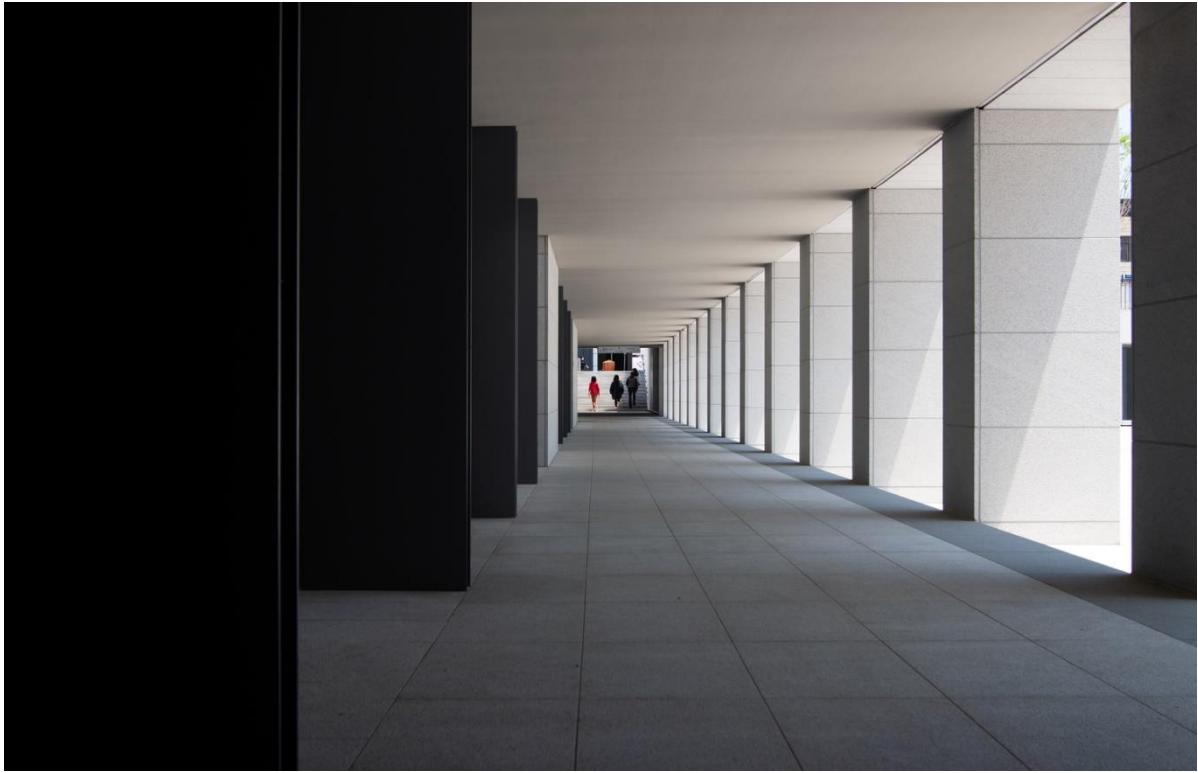
SUNCHEON, COREA DEL SUR

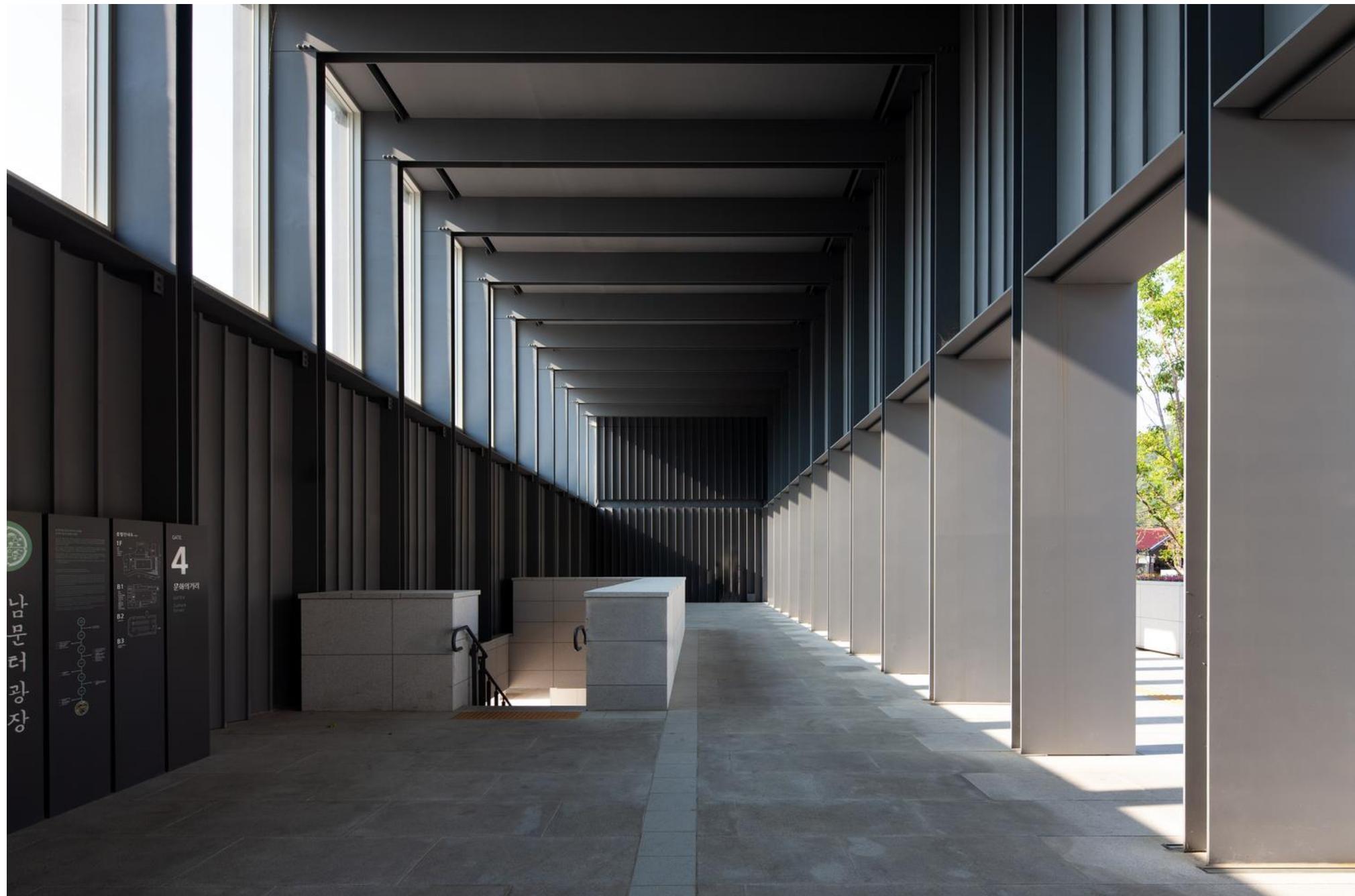
STUDIO MADE

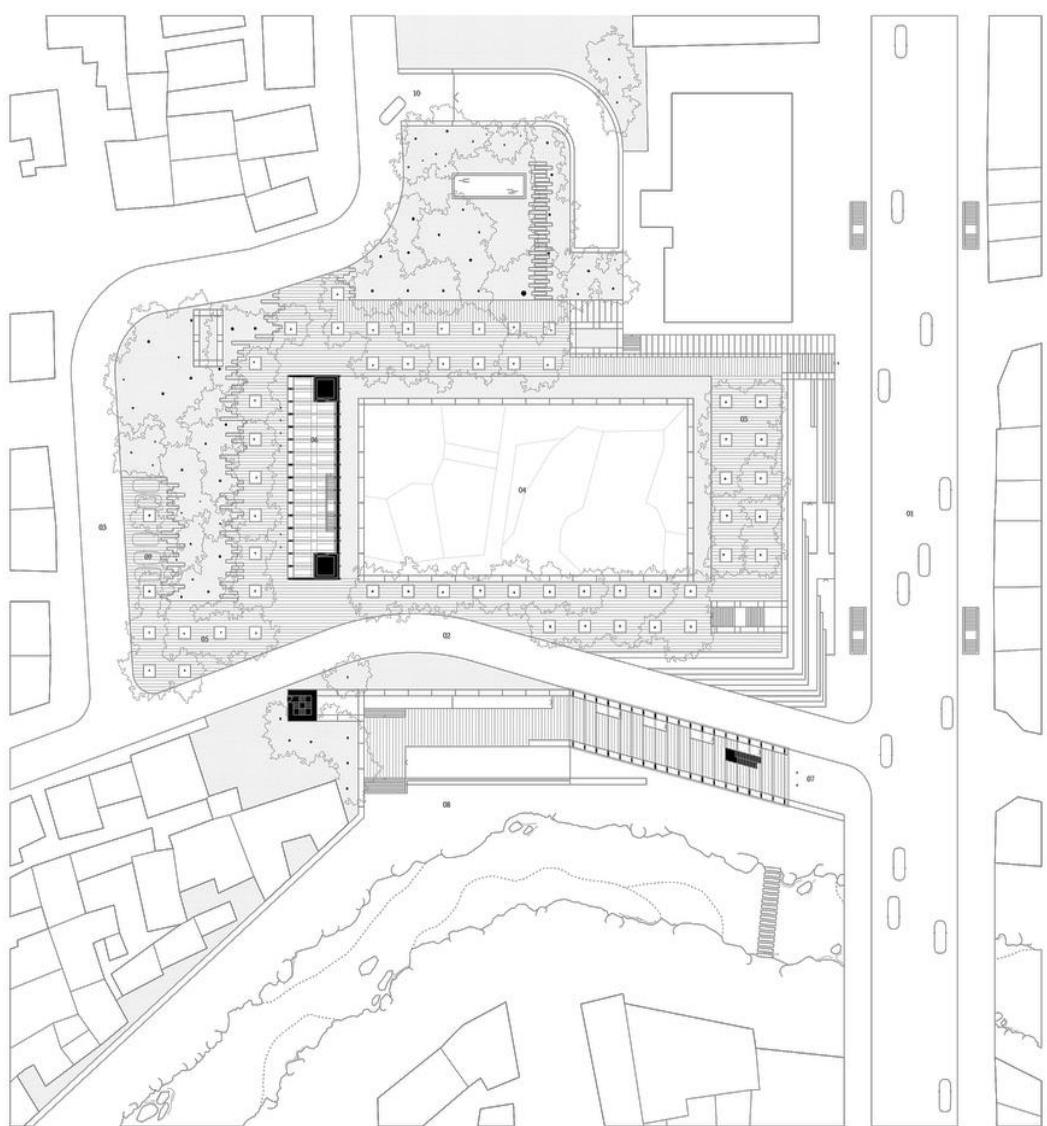
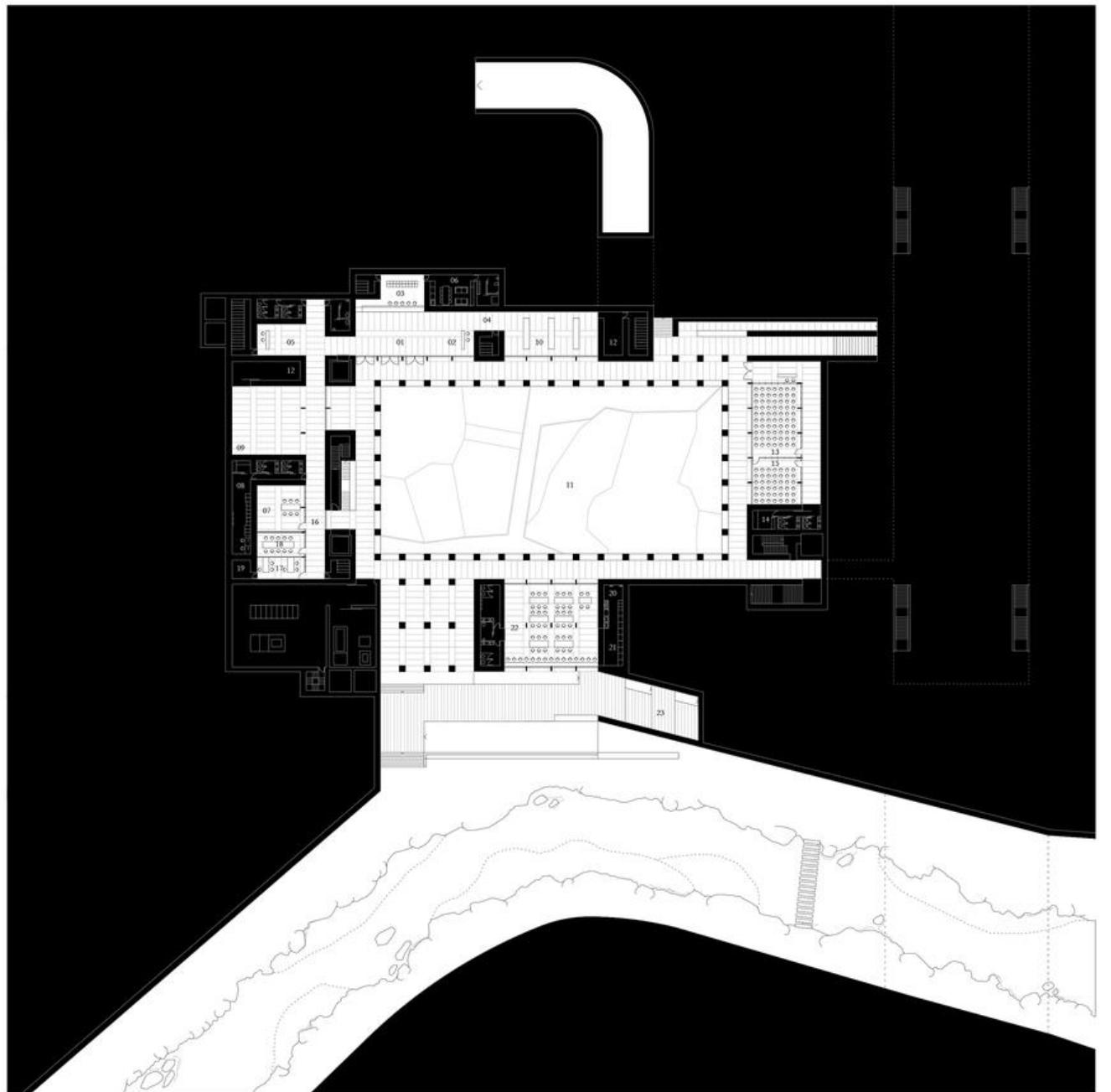
2022

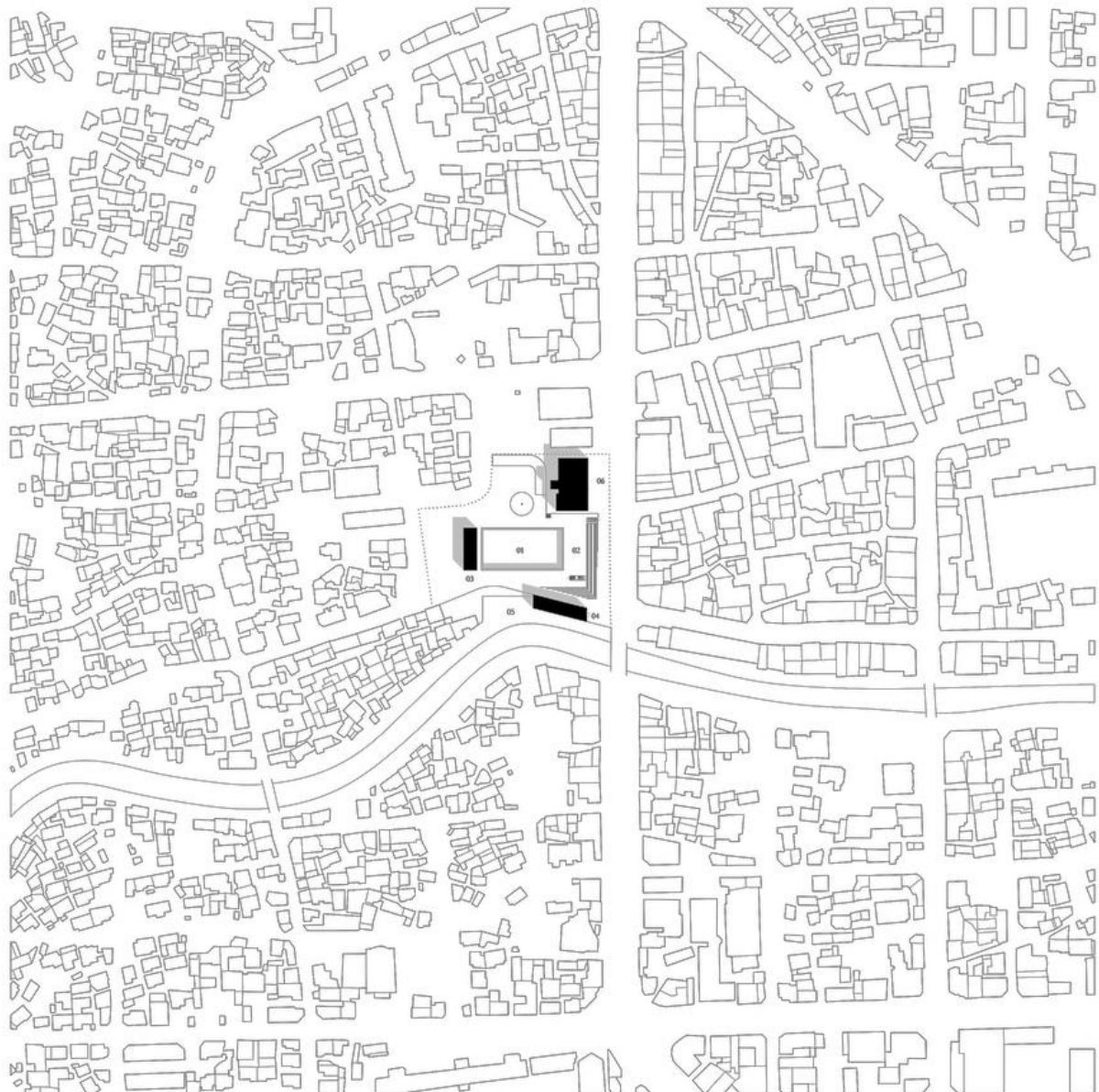






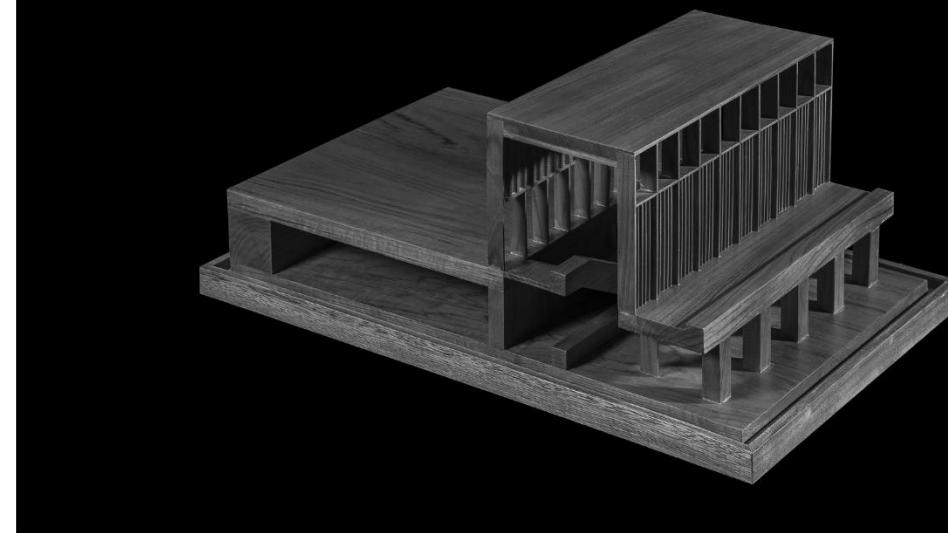
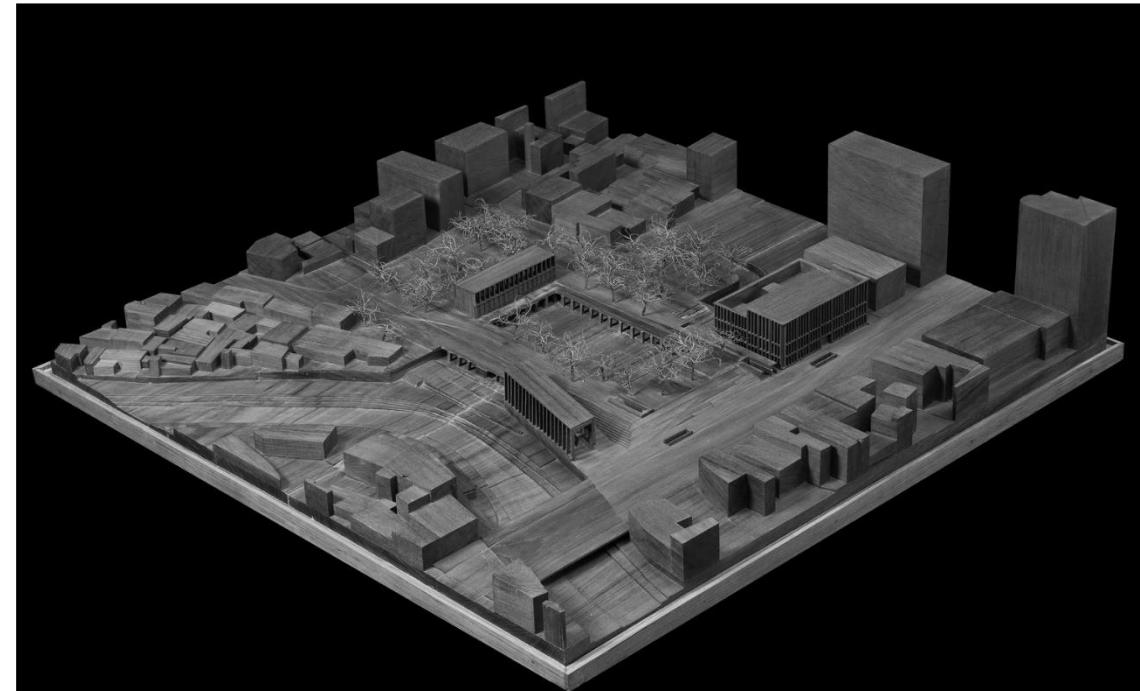


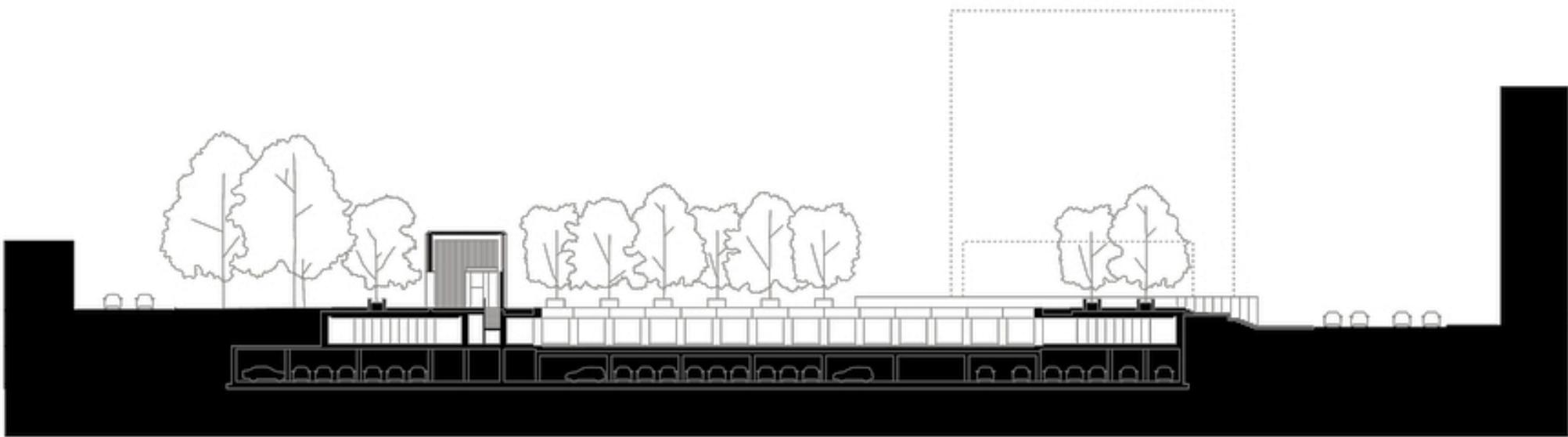
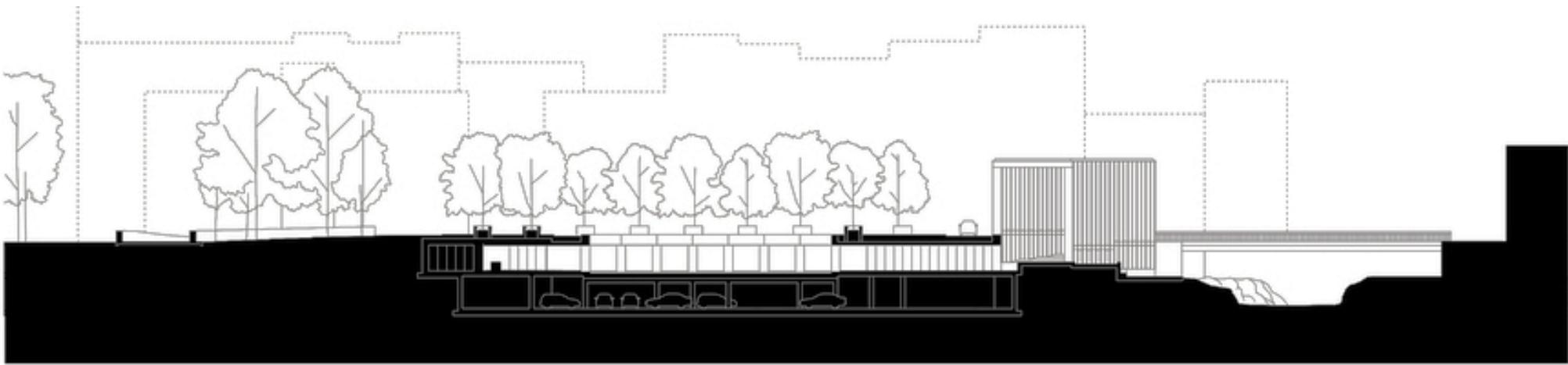


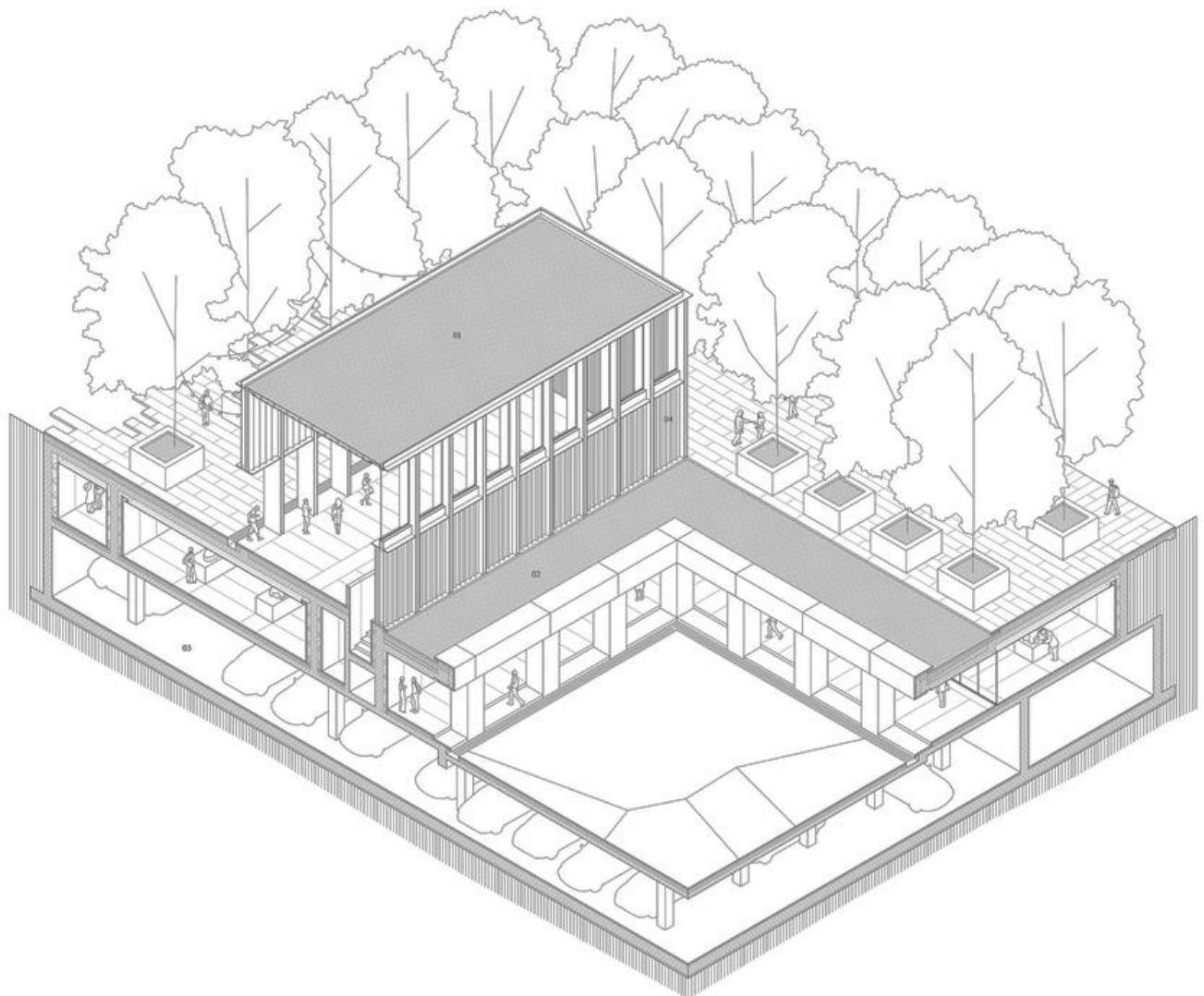


- 01. Hidden quadrangle
  - 02. Urban park
  - 03. Entrance pavilion
  - 04. Yeonjae-ru pavilion
  - 05. New river front
  - 06. Existing building

25

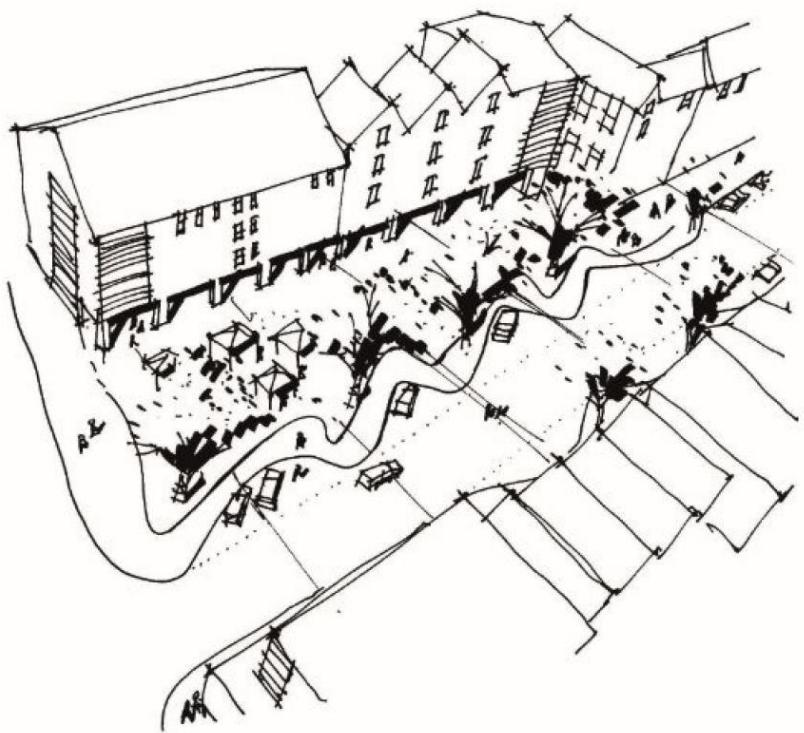
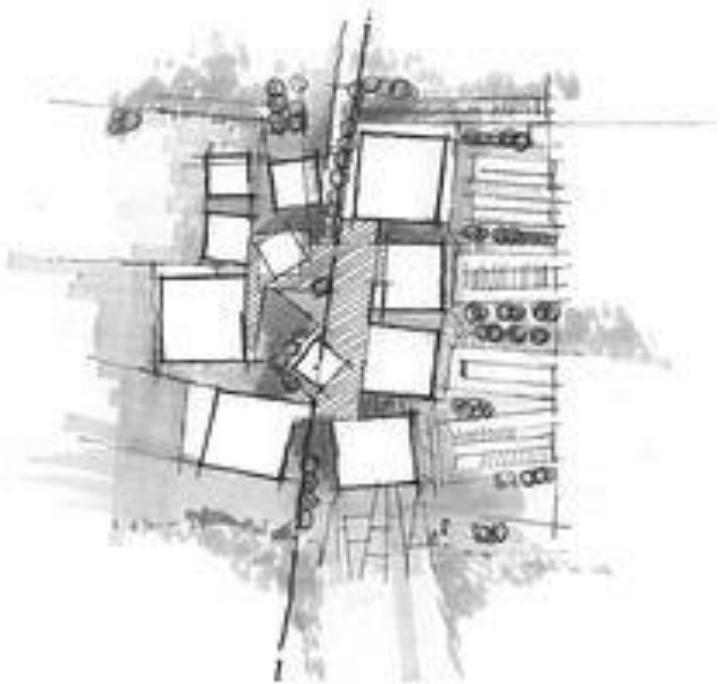
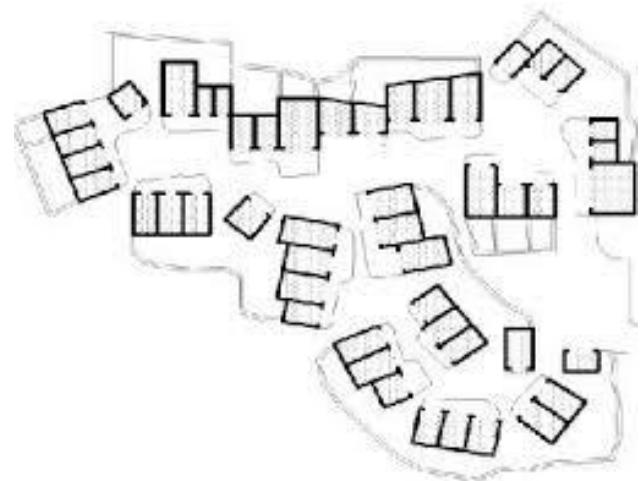
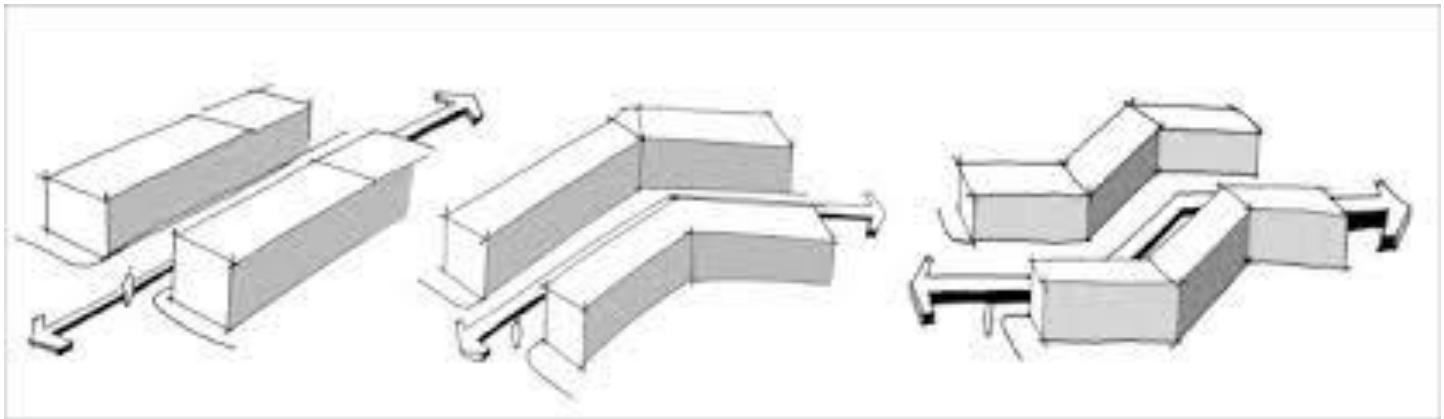








UNA CALLE...

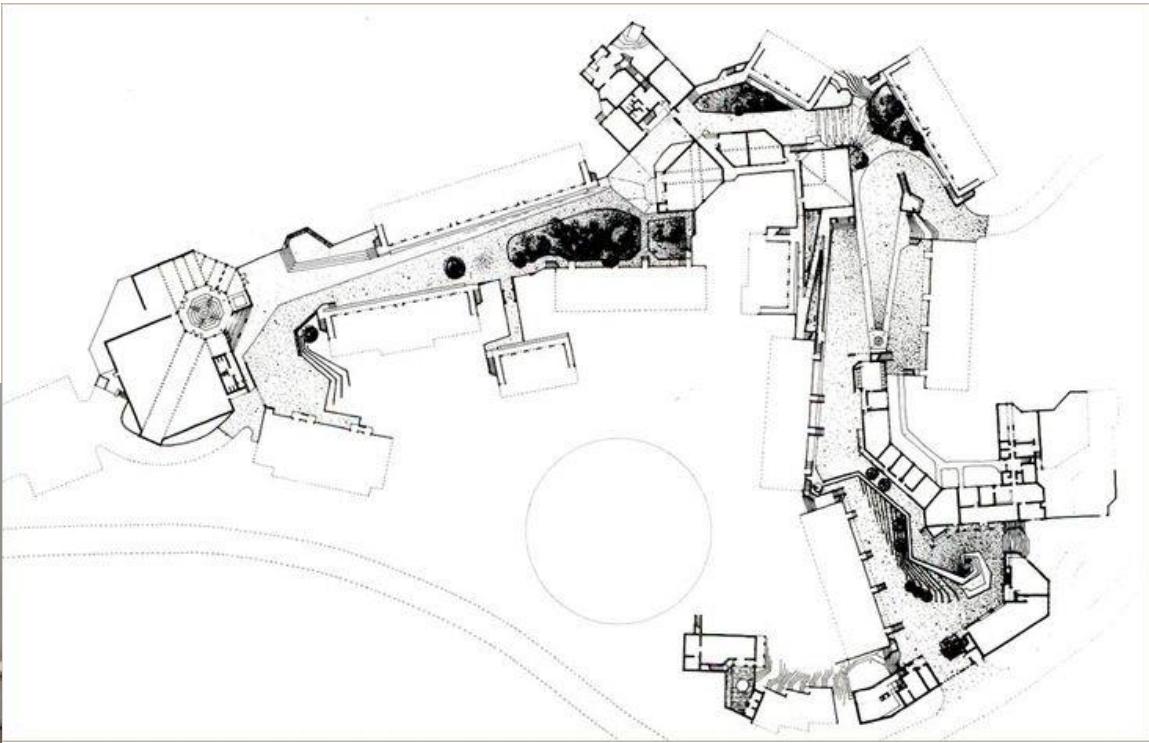


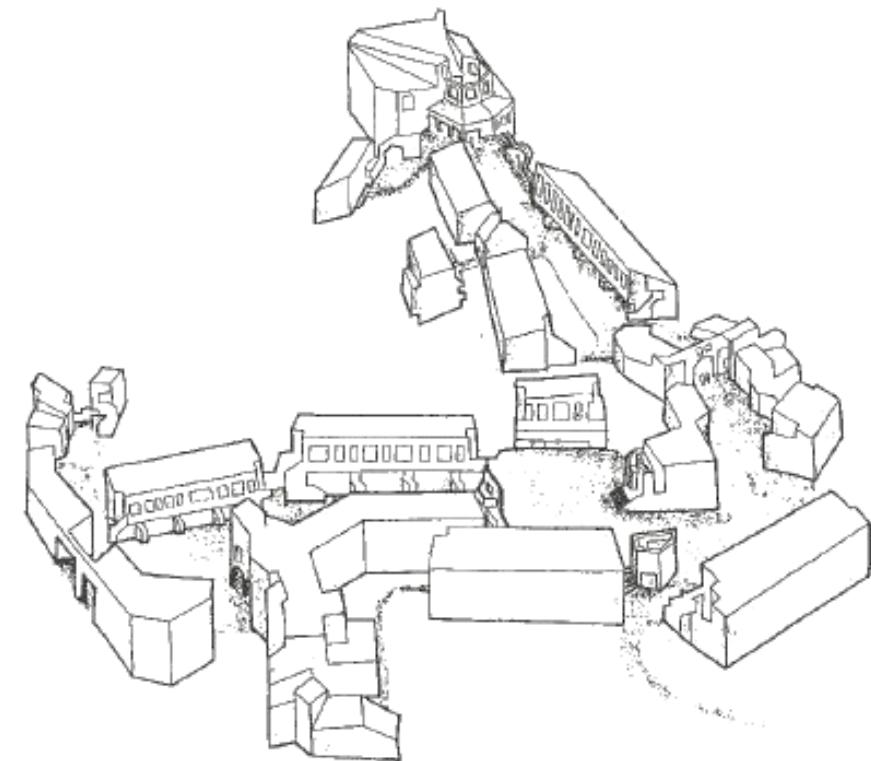
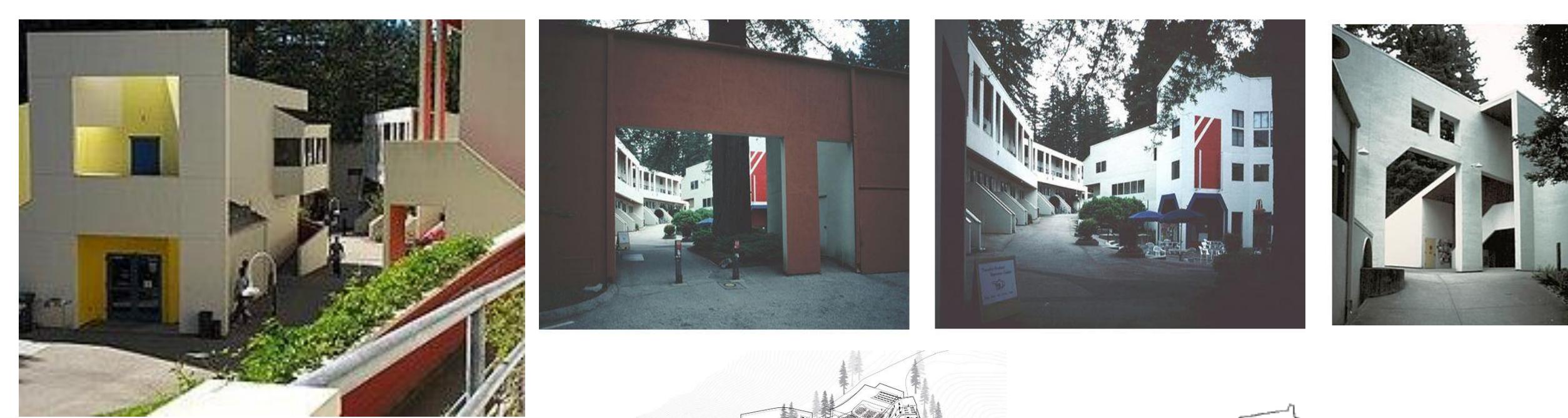
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**ARQUITECTURA 1 TALLER DE INTEGRACION PROYECTUAL**  
Carrera de Arquitectura

**2024**  
Facultad de Ingeniería -UN Cuyo