

NUMBERS/MATHEMATICS/  
GEOMETRY AS INSPIRATION OF  
FORM



Fibonacci





*Fabrizio Lanza*

IL

# LIBER ABBACI

DI

NO **LEONARDO PISANO**

PUBBLICATO

SECONDO LA LEZIONE DEL CODICE MAGLIABECHIANO  
C. I, 2616, *Badia Fiorentina*, n.° 73.

DA

**BALDASSARRE BONCOMPAGNI**

SOCIO ORDINARIO DELL'ACCADEMIA PONTIFICIA DE' NUOVI LINCEI, E SOCIO  
CORRISPONDENTE DELL'ACCADEMIA REALE DELLE SCIENZE DI TORINO,  
DELLA REALE ACCADEMIA DELLE SCIENZE DI NAPOLI,  
E DELLA PONTIFICIA ACCADEMIA DELLE SCIENZE  
DELL'ISTITUTO DI BOLOGNA

ROMA •

TIPOGRAFIA DELLE SCIENZE MATEMATICHE E FISICHE  
VIA LATA NUM.° 211  
MDCCCLVII.

Liber Abaci



1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233...



$$a/b = b/a + b$$



Beethoven, Debussy, Mozart, Bartok --  
proportions in music.



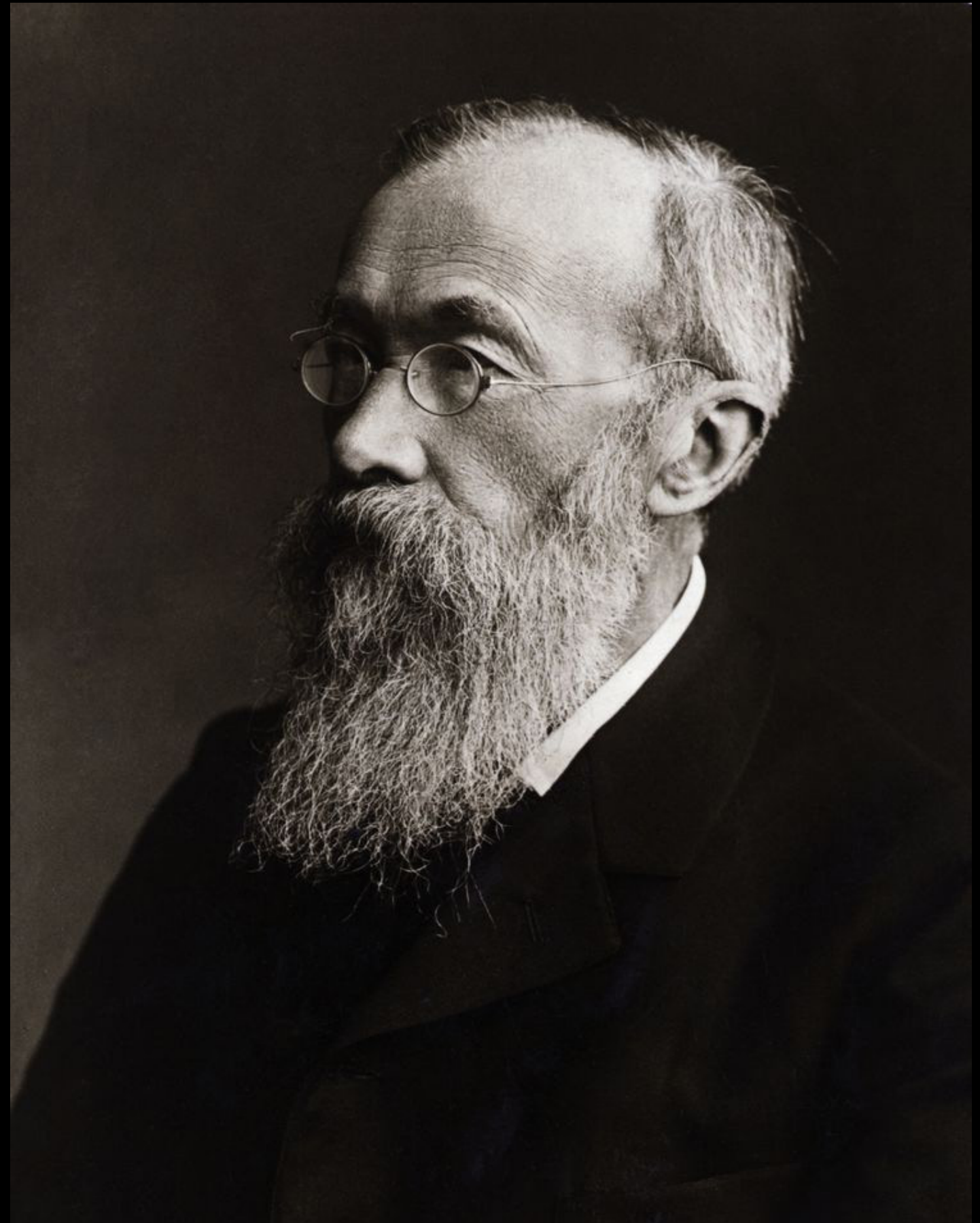
Pythagorus, Euclid, Kepler -- proportions  
in science.

Michelangelo, Durer, Seurat -- proportions  
in art.





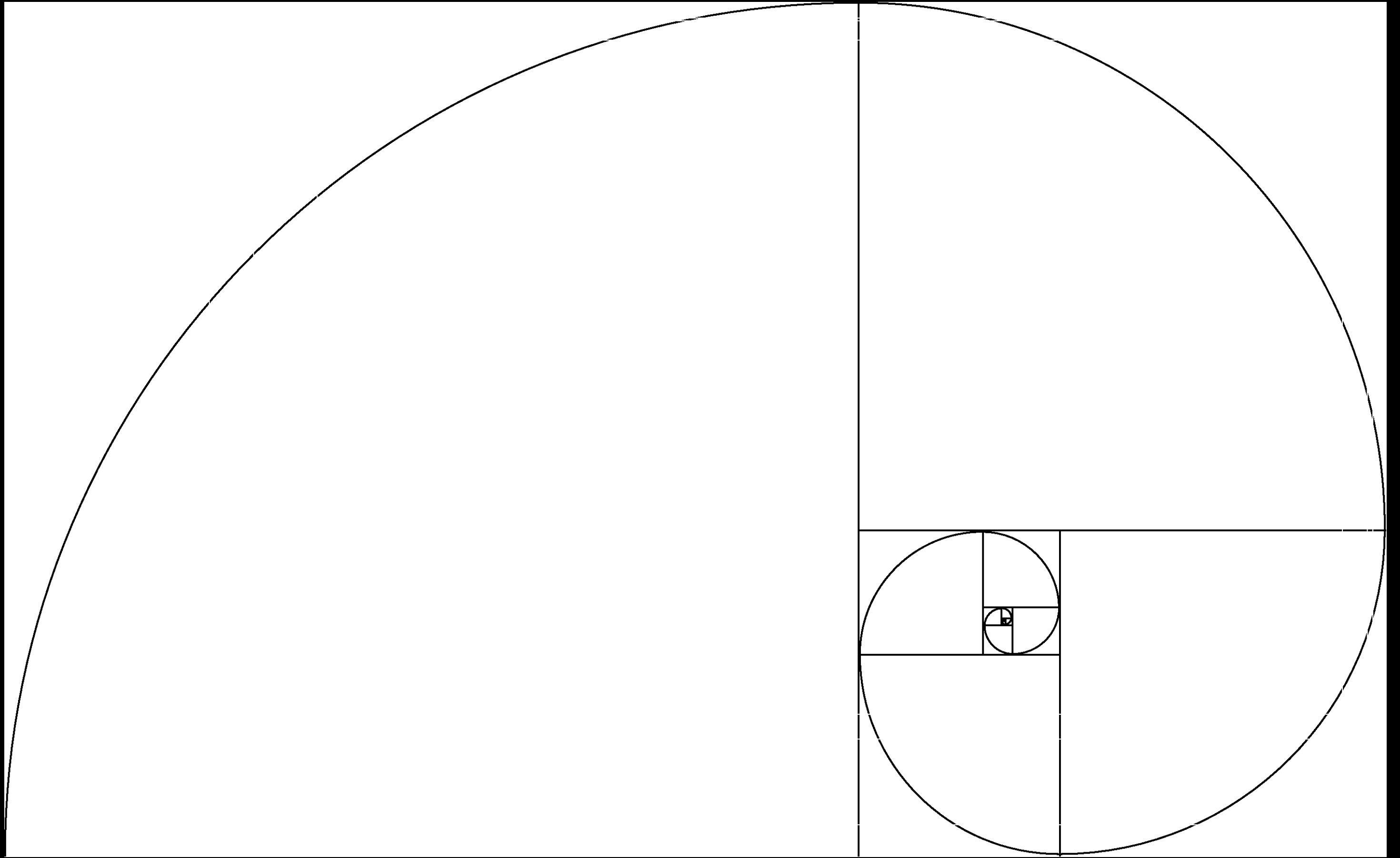
Gustav Fechner



Wilhelm Wundt

5 miles = 8 km, 21 miles = 34 km,  
55 miles = 89 km





Golden Spiral







Pyramids

Giza, Egypt

2650-2500 B.C.E.



*Larry Speck*

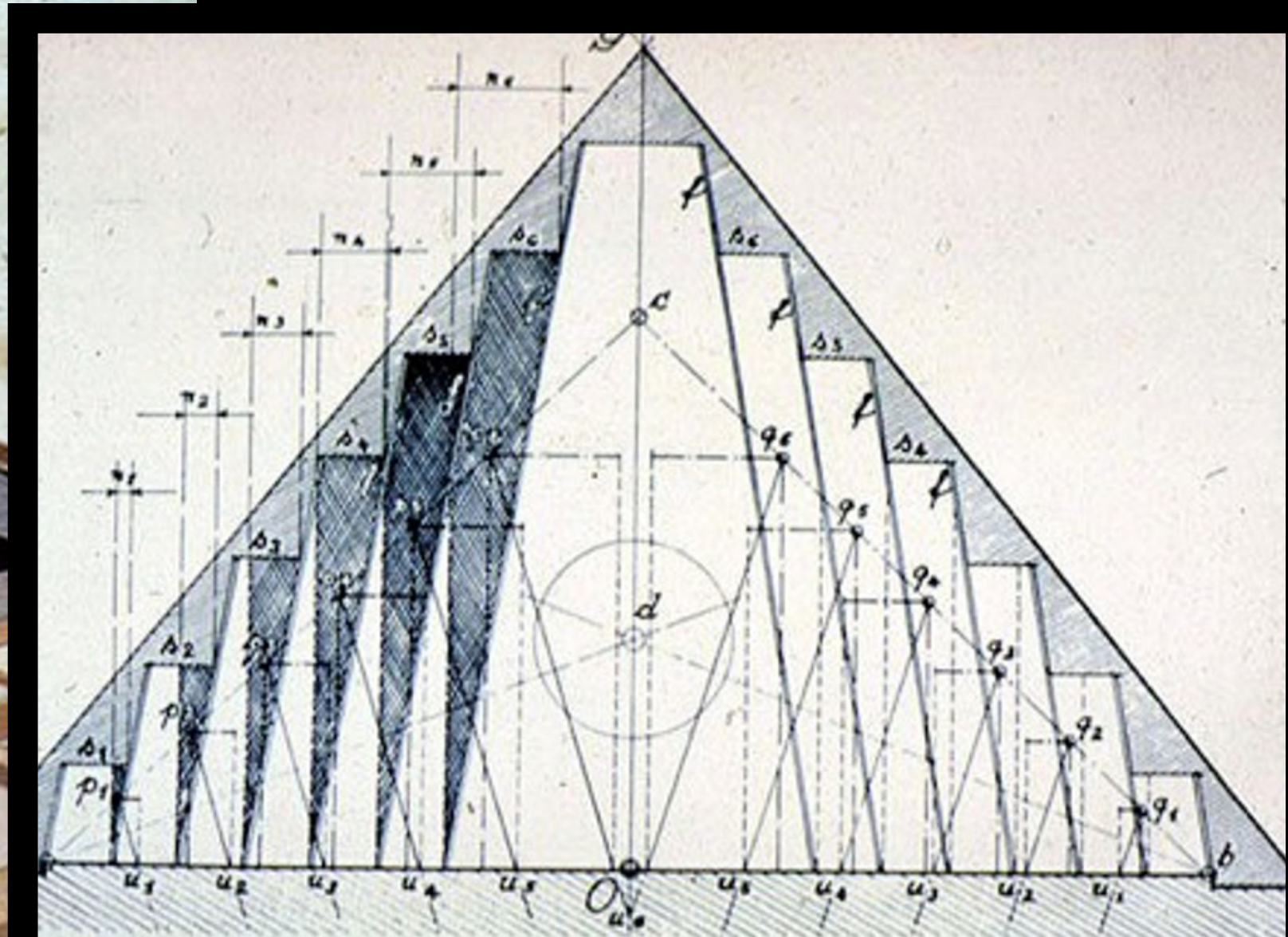
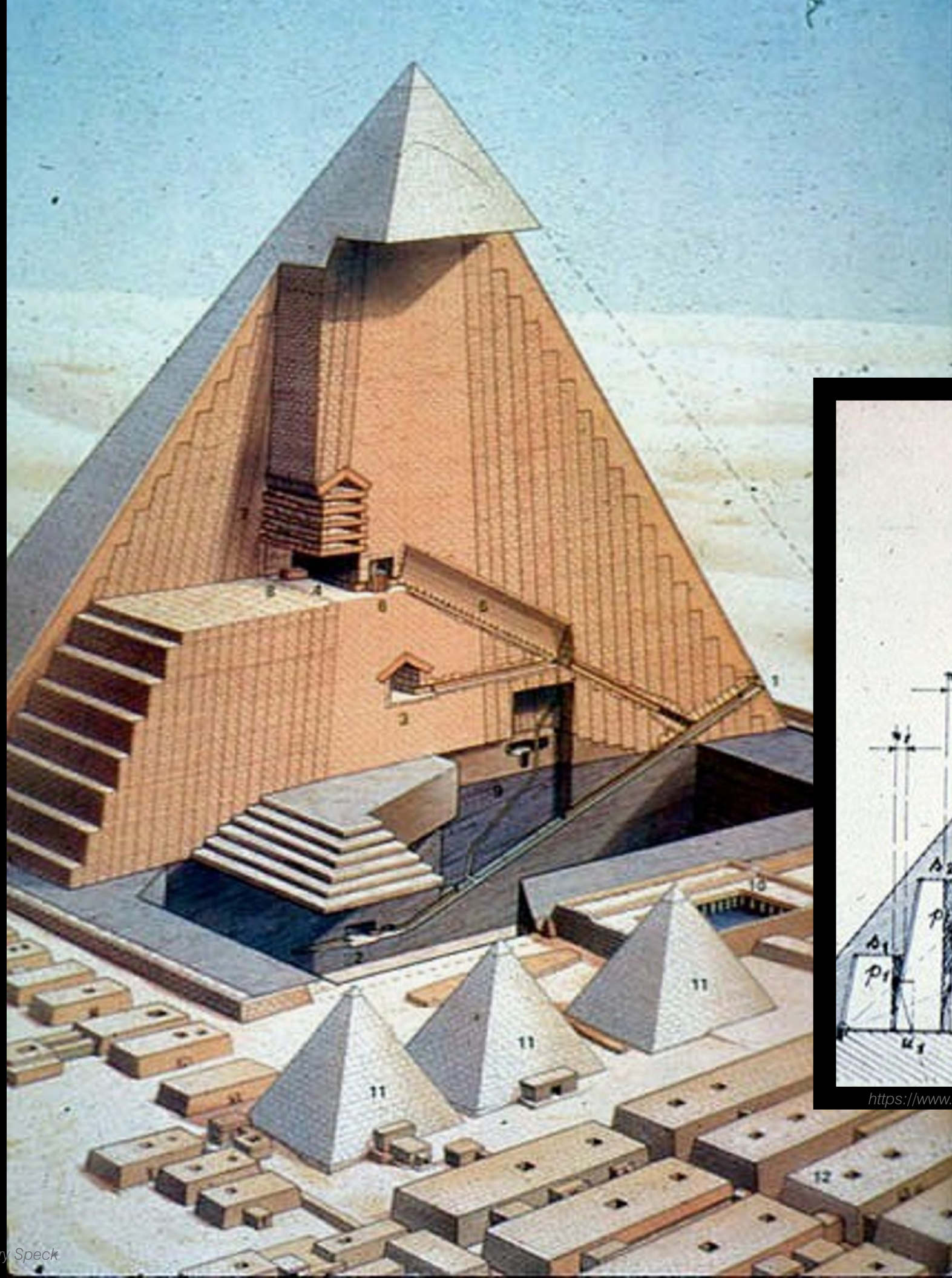




Larry Speck







<https://www.pinterest.com/>











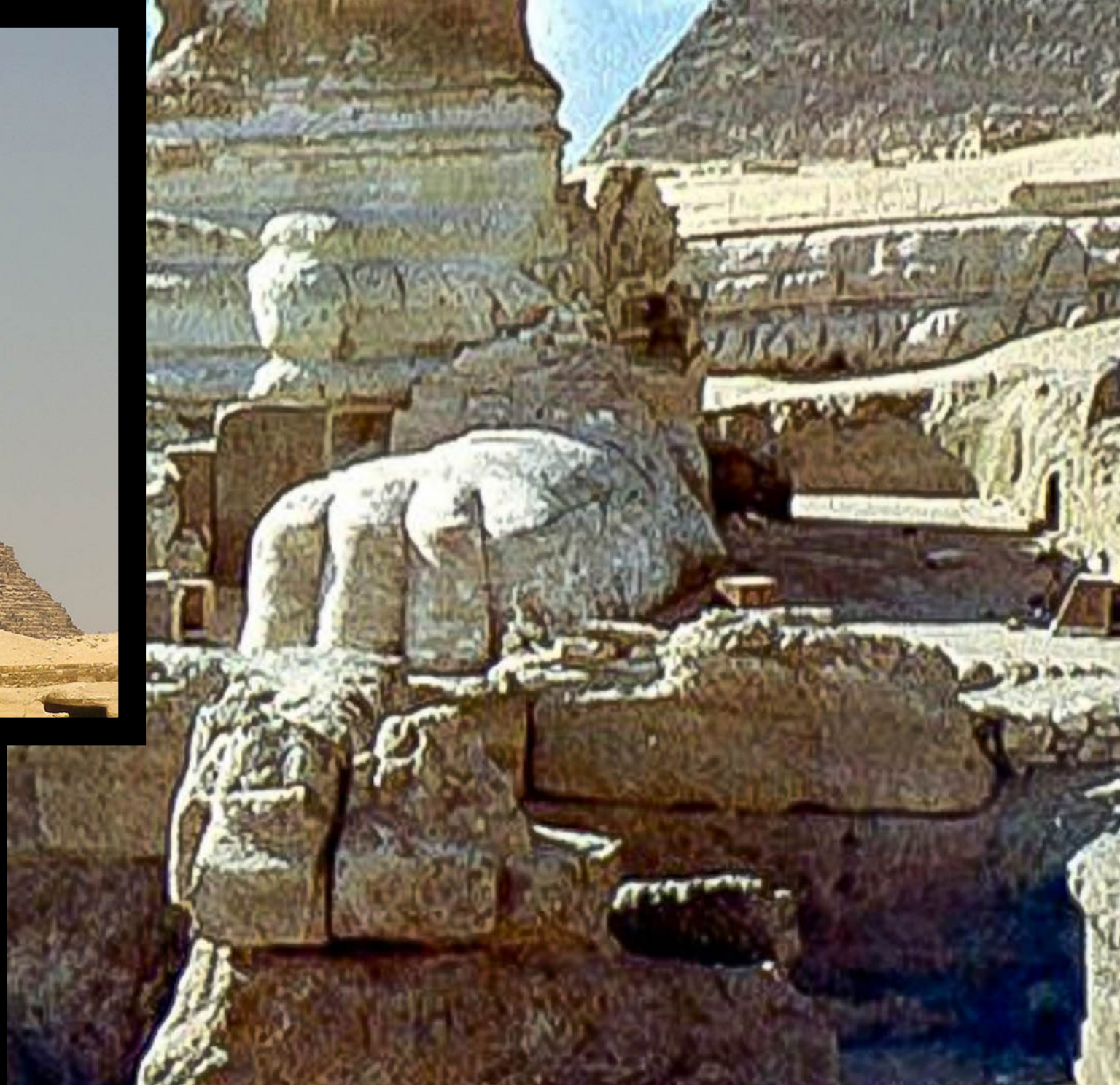


<https://www.pinterest.com/>





Larry Speck









MYSTICISM



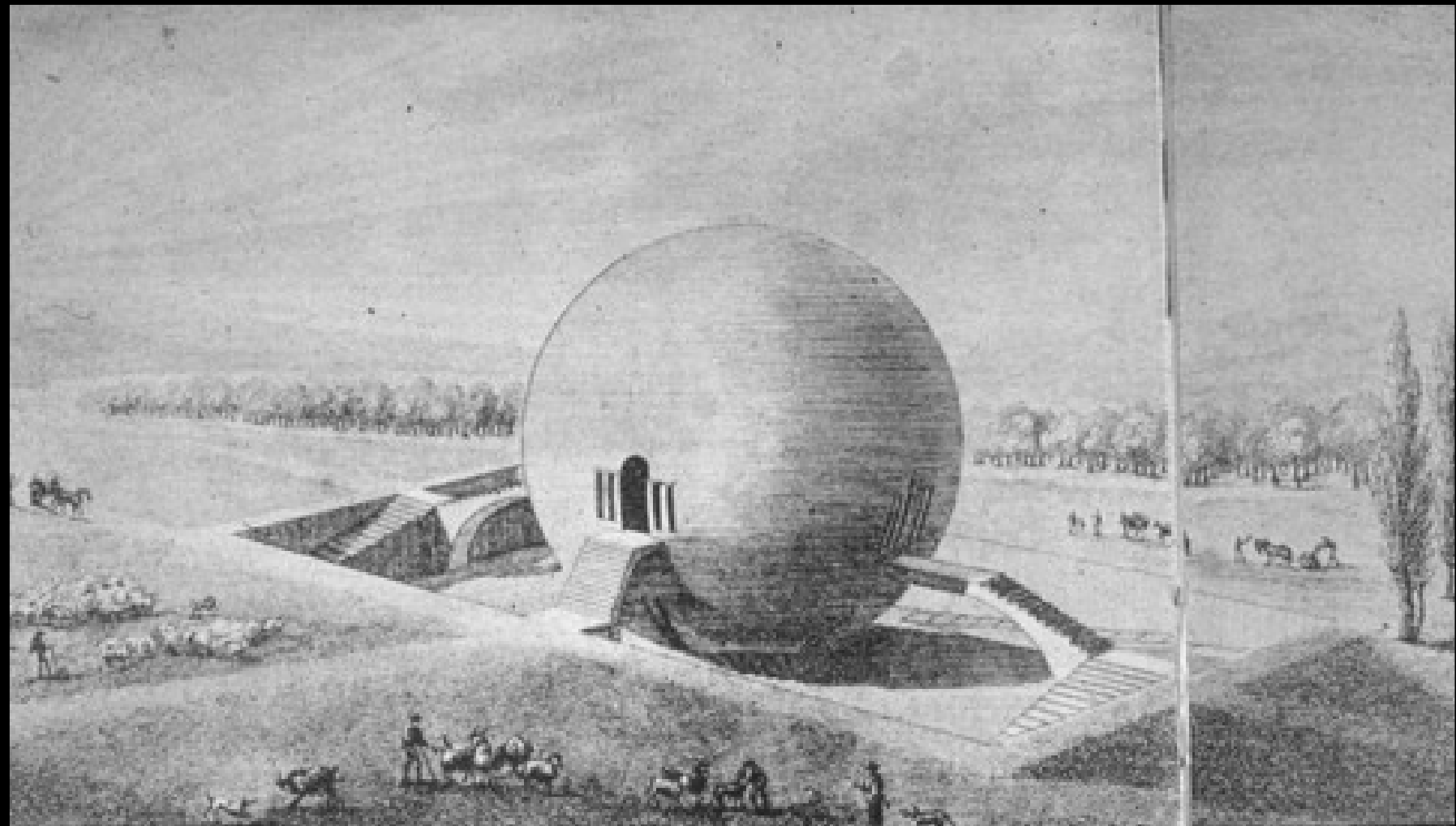
**PRESTIGE**

**MAKES STRUCTURAL  
SENSE**

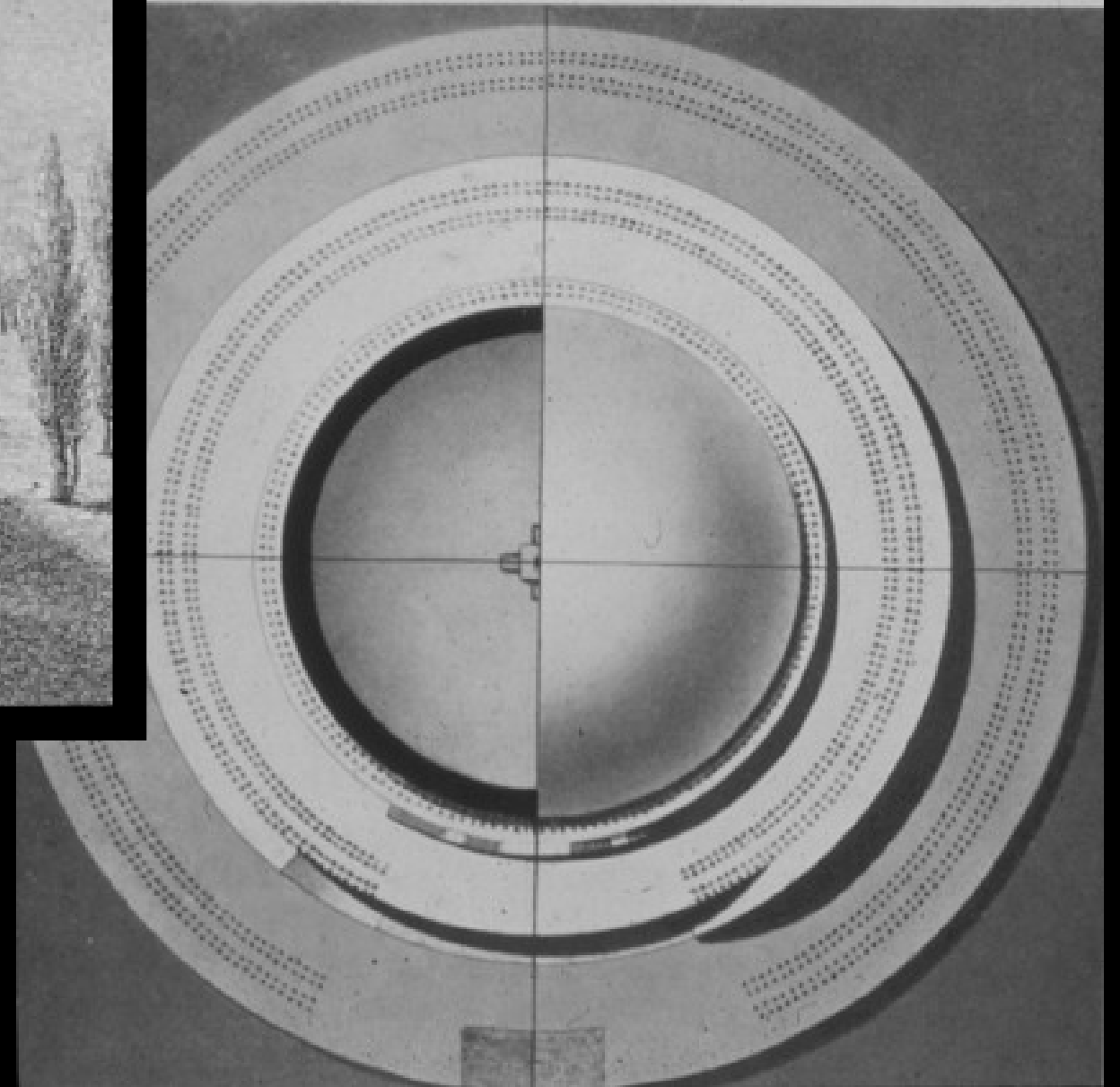
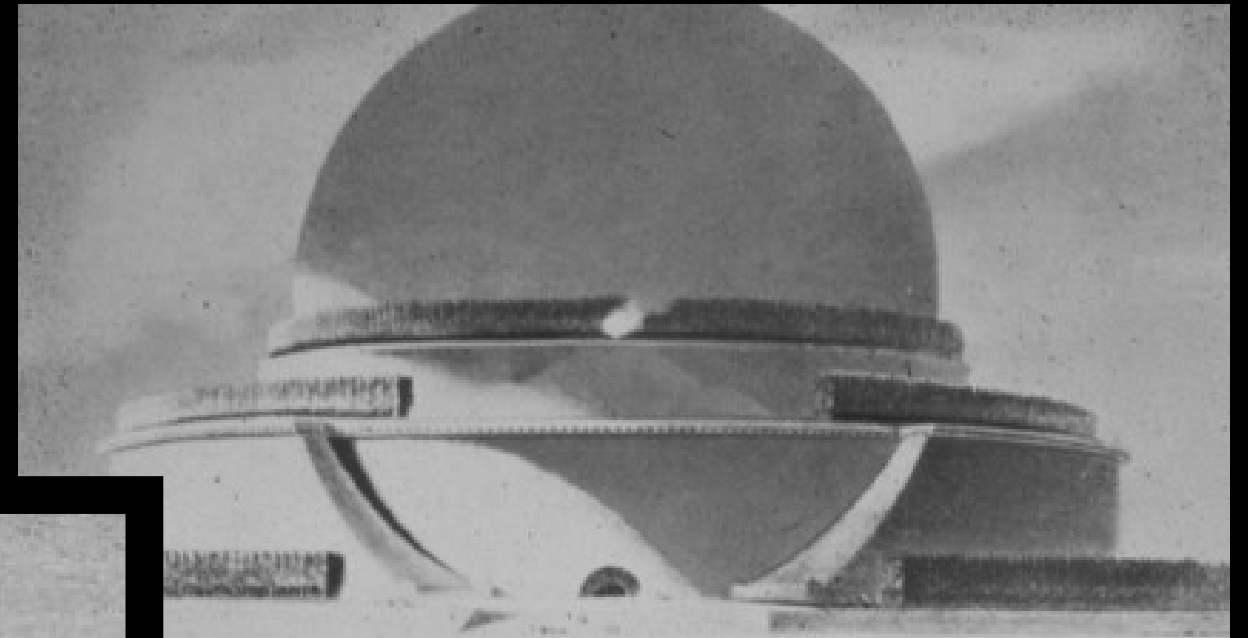
ICONIC



# INTELLECTUAL PUZZLES

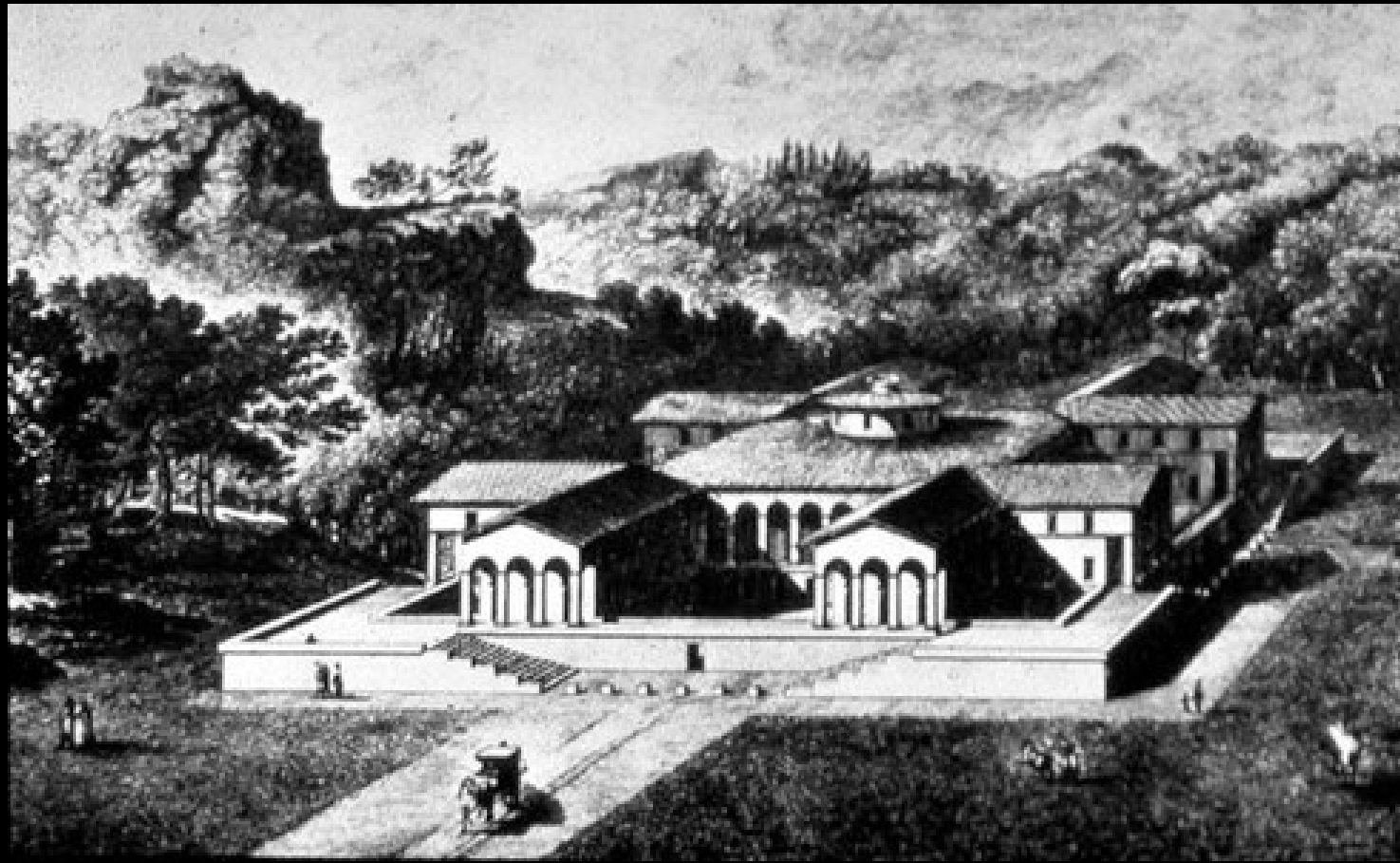


House - Claude Ledoux

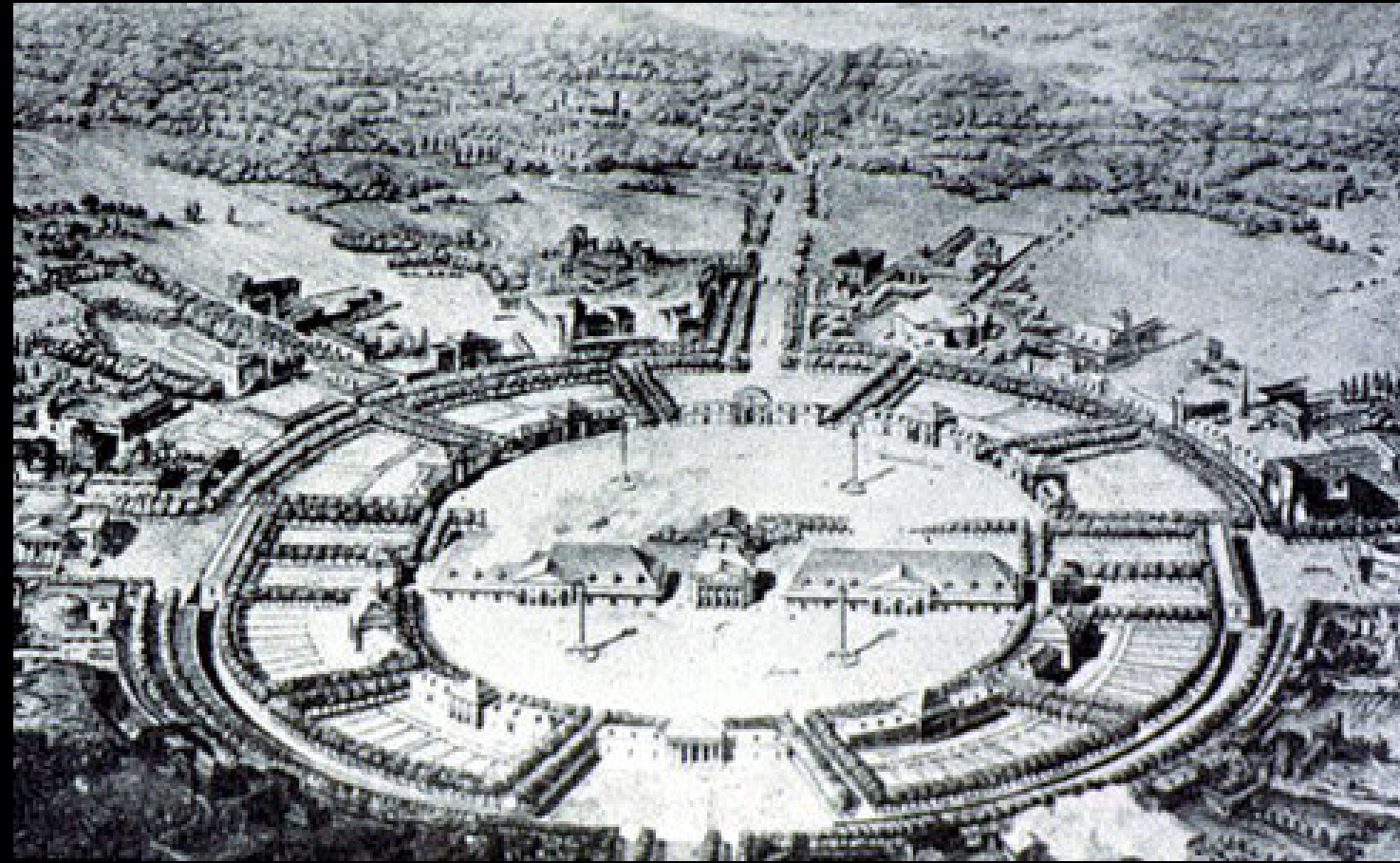


Newton's Cenotaph - Etienne Boullée - 1804

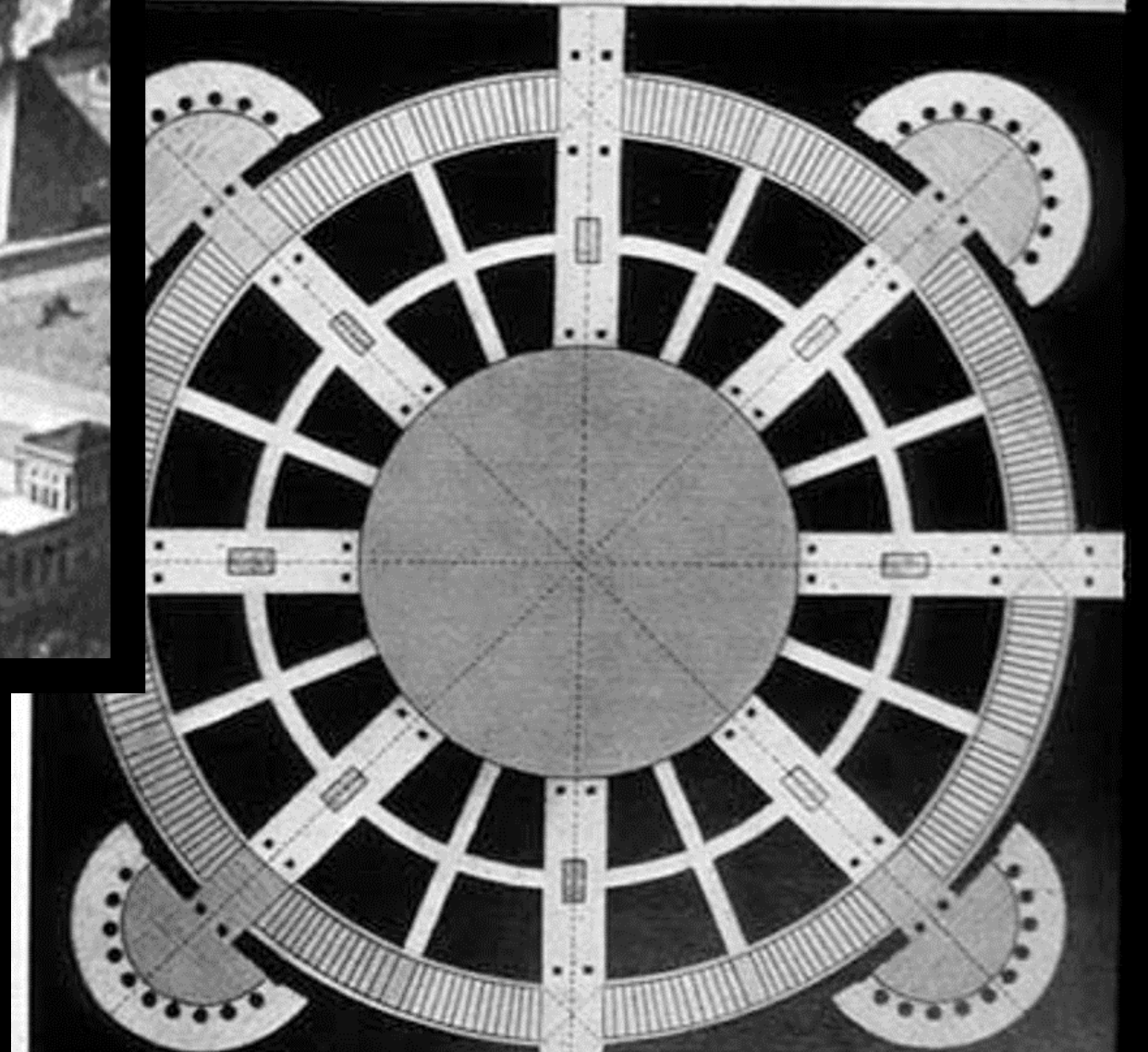
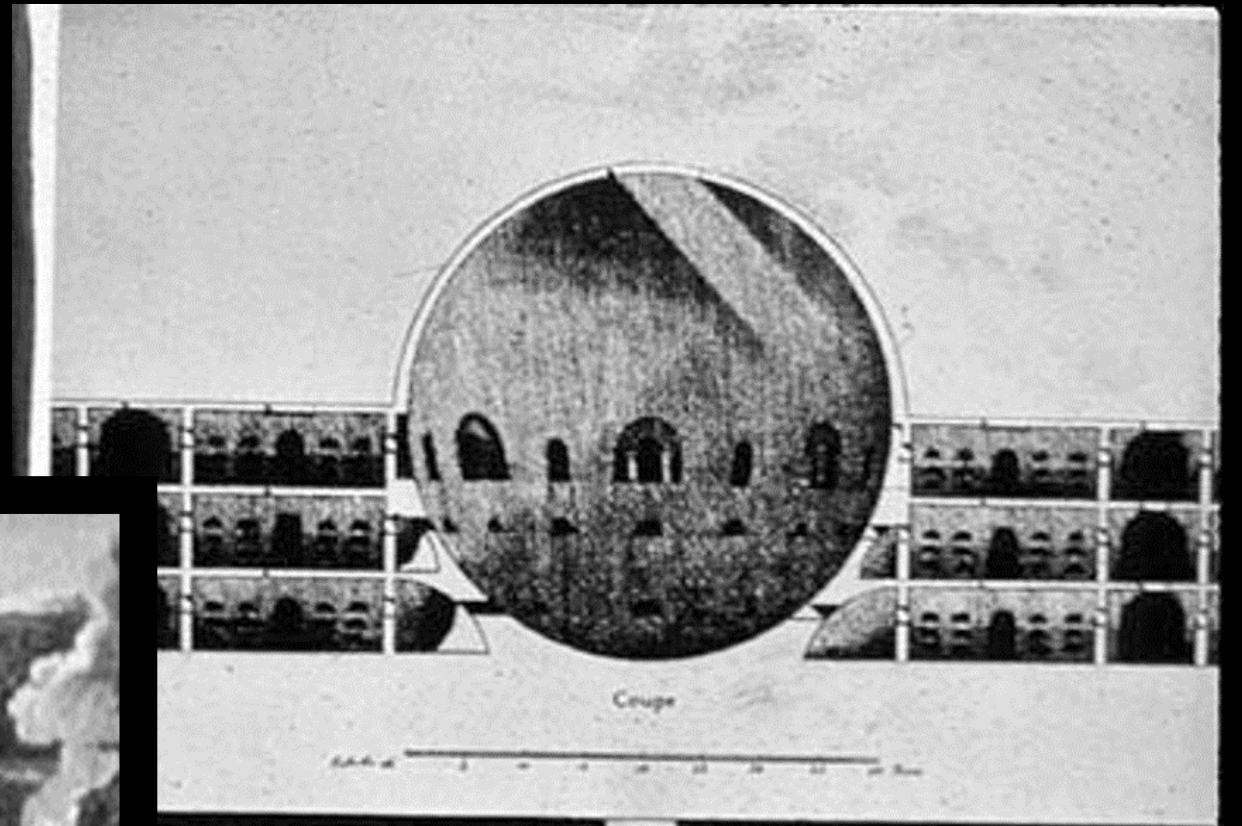
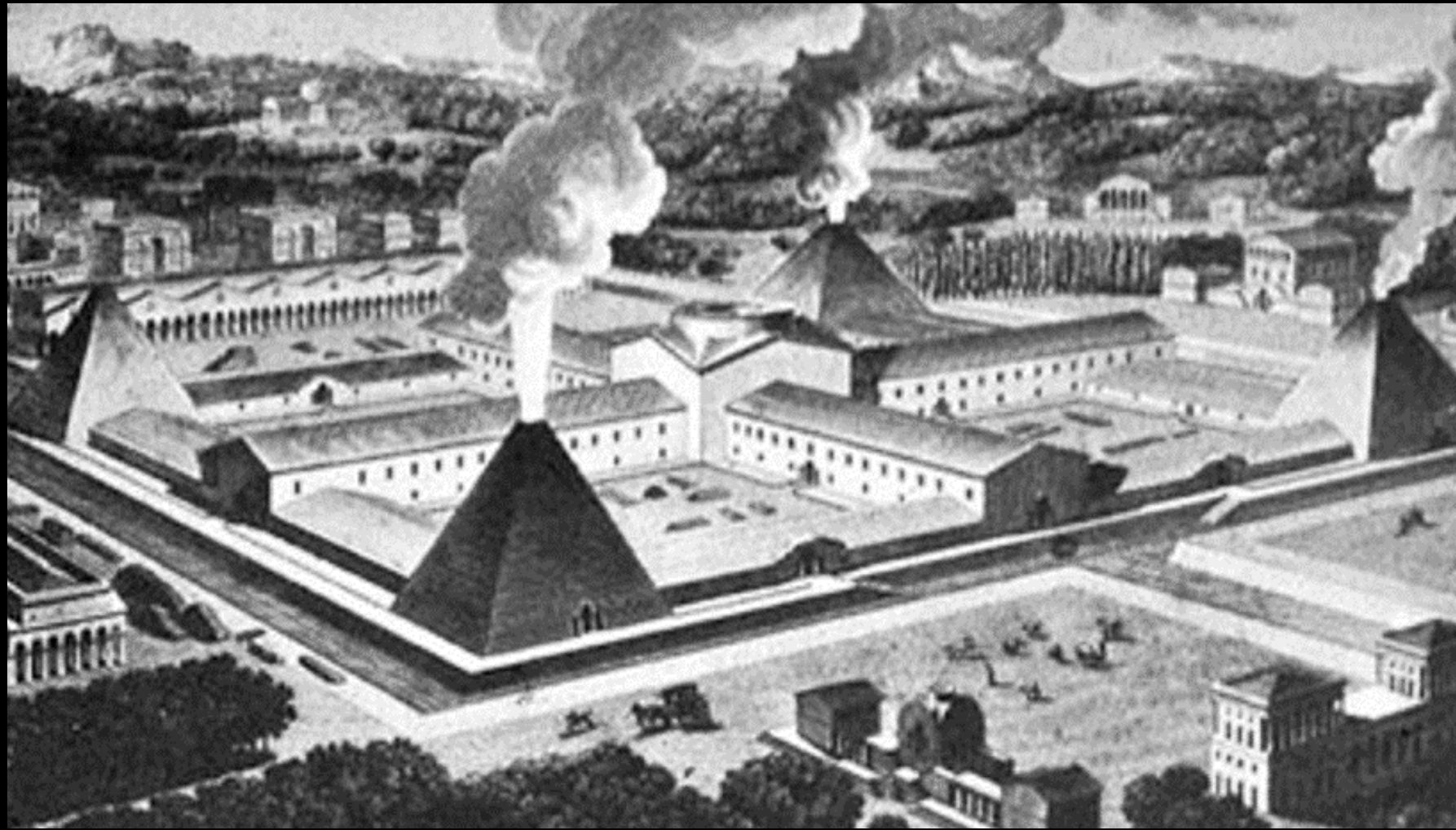


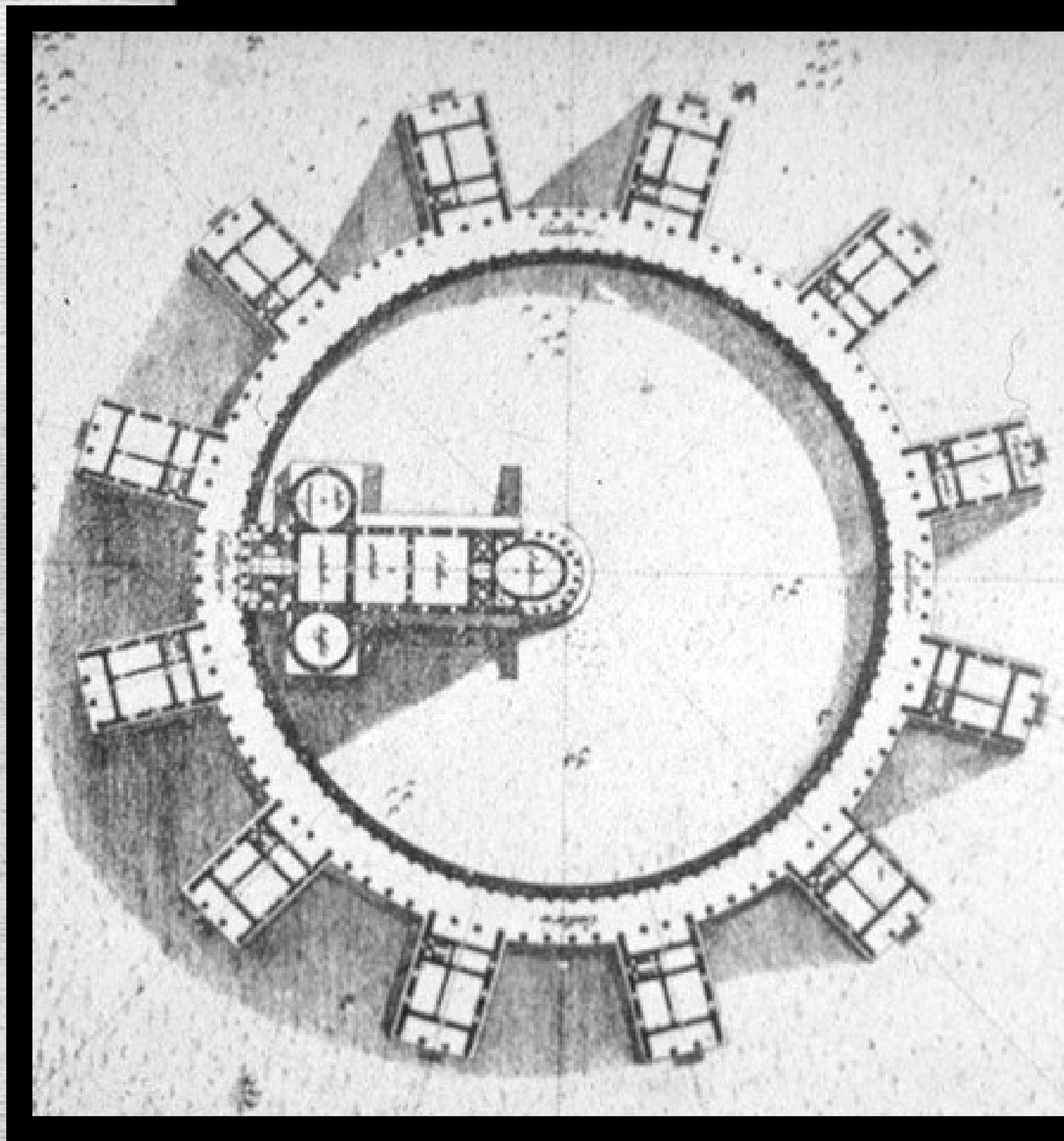
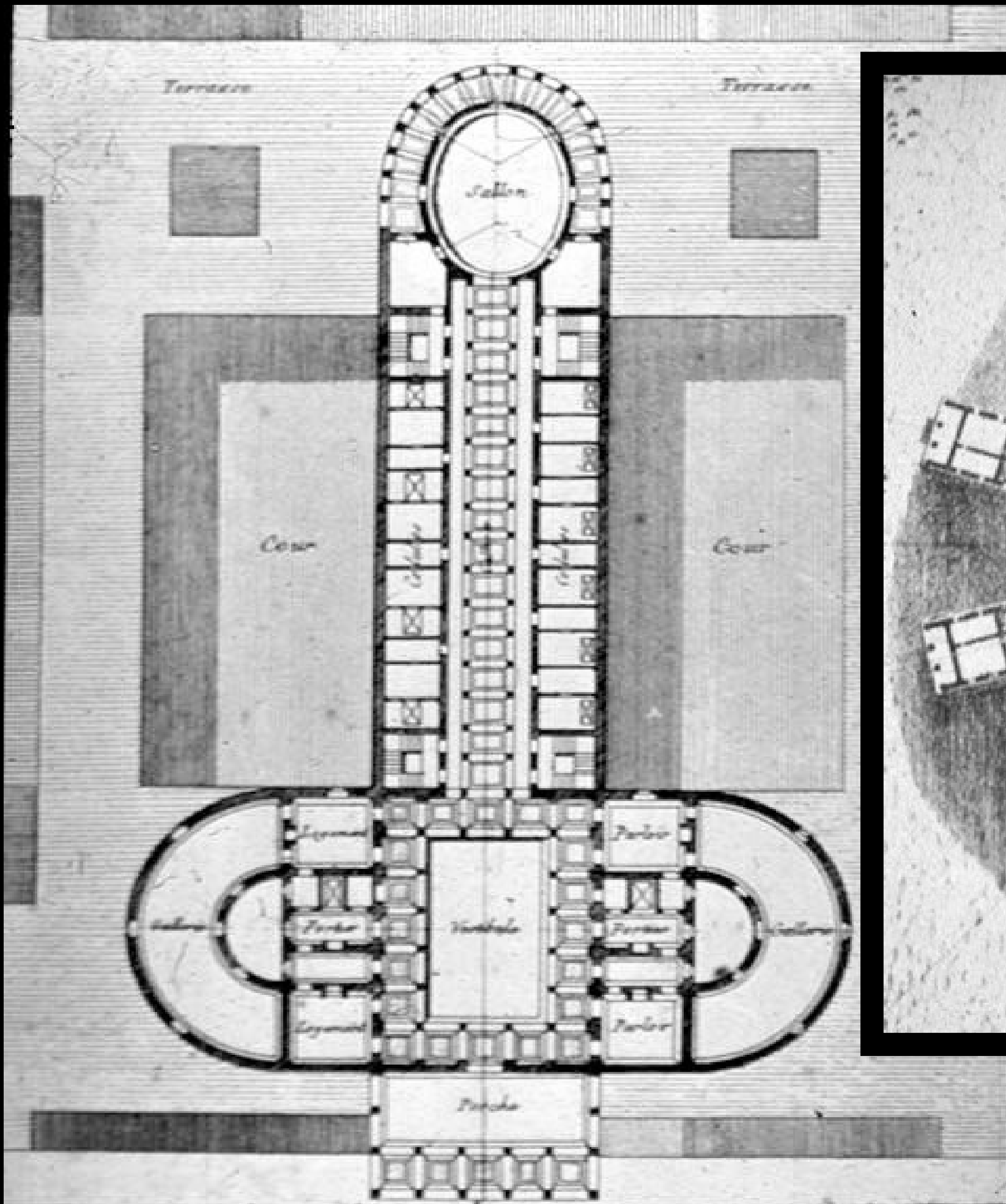


Designs for Chaux - Claude Ledoux 1804

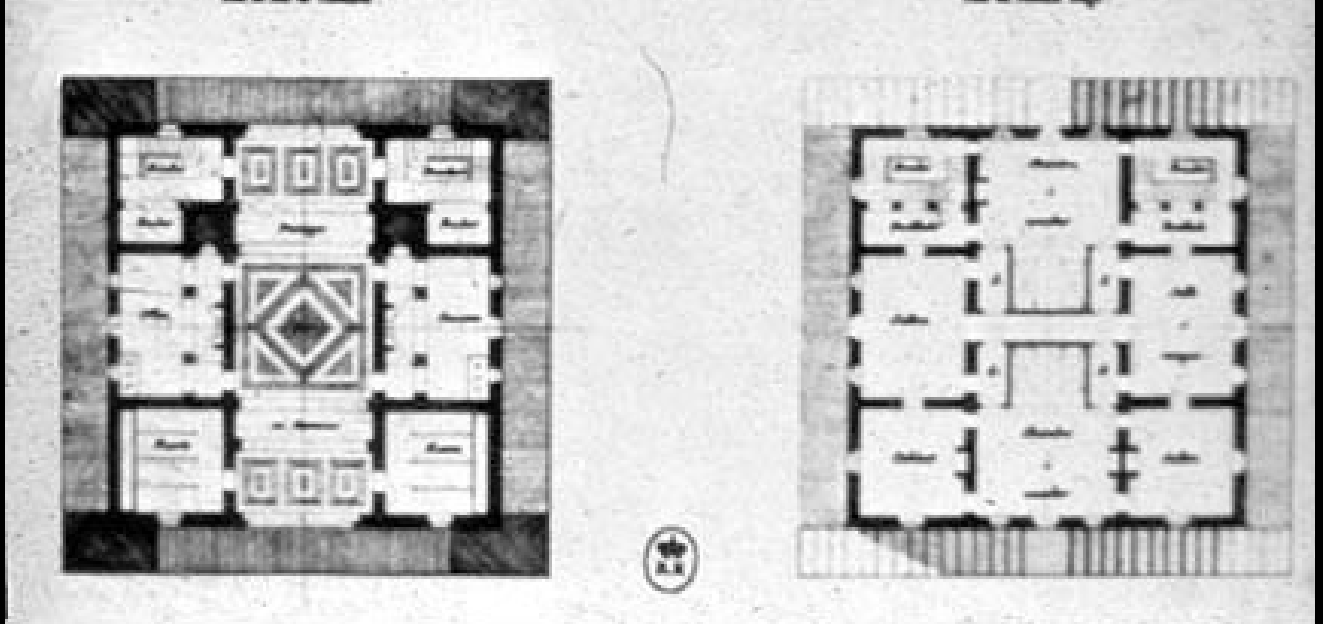
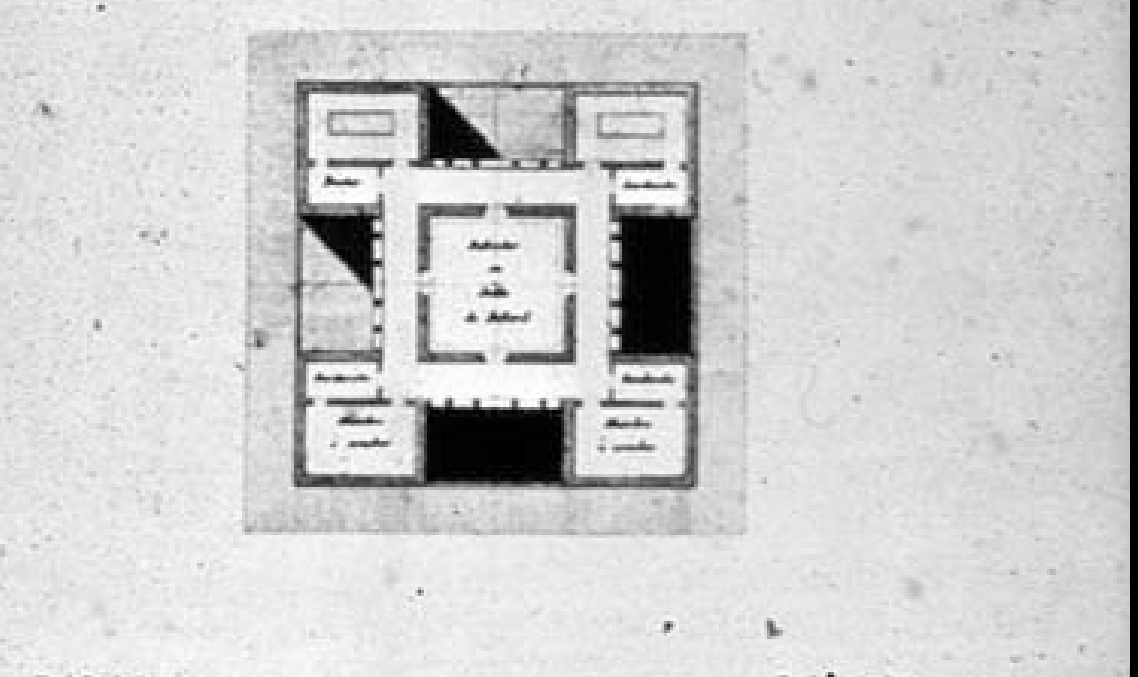
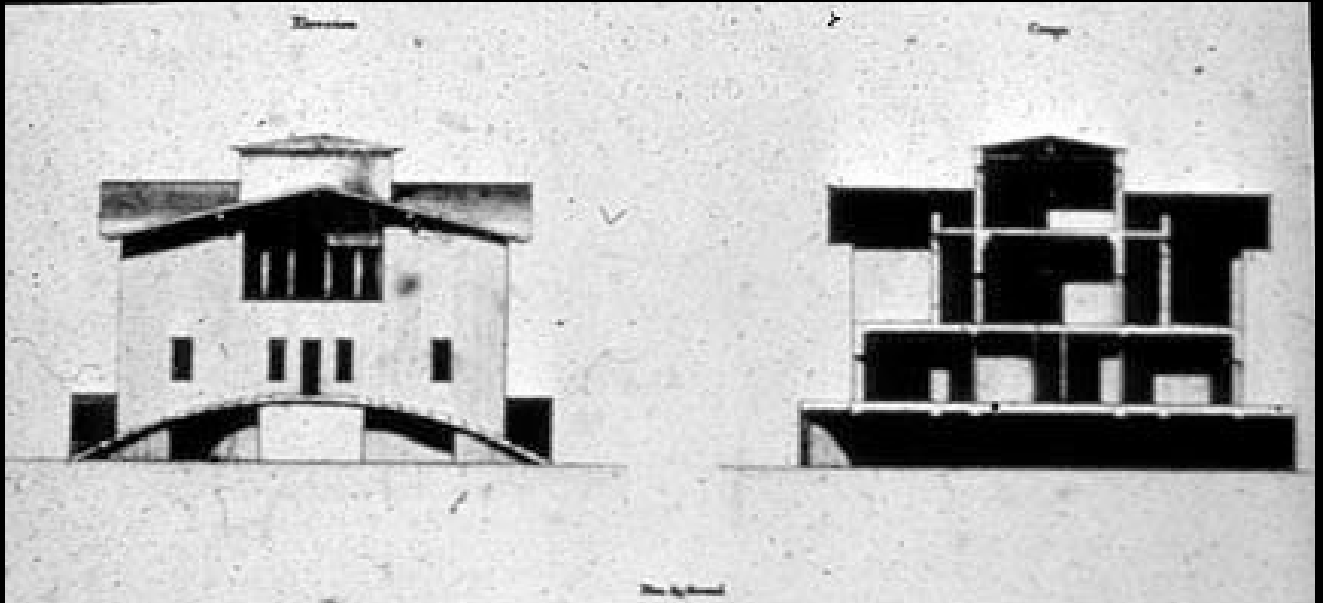


Designs for Chaux - Claude Ledoux 1804





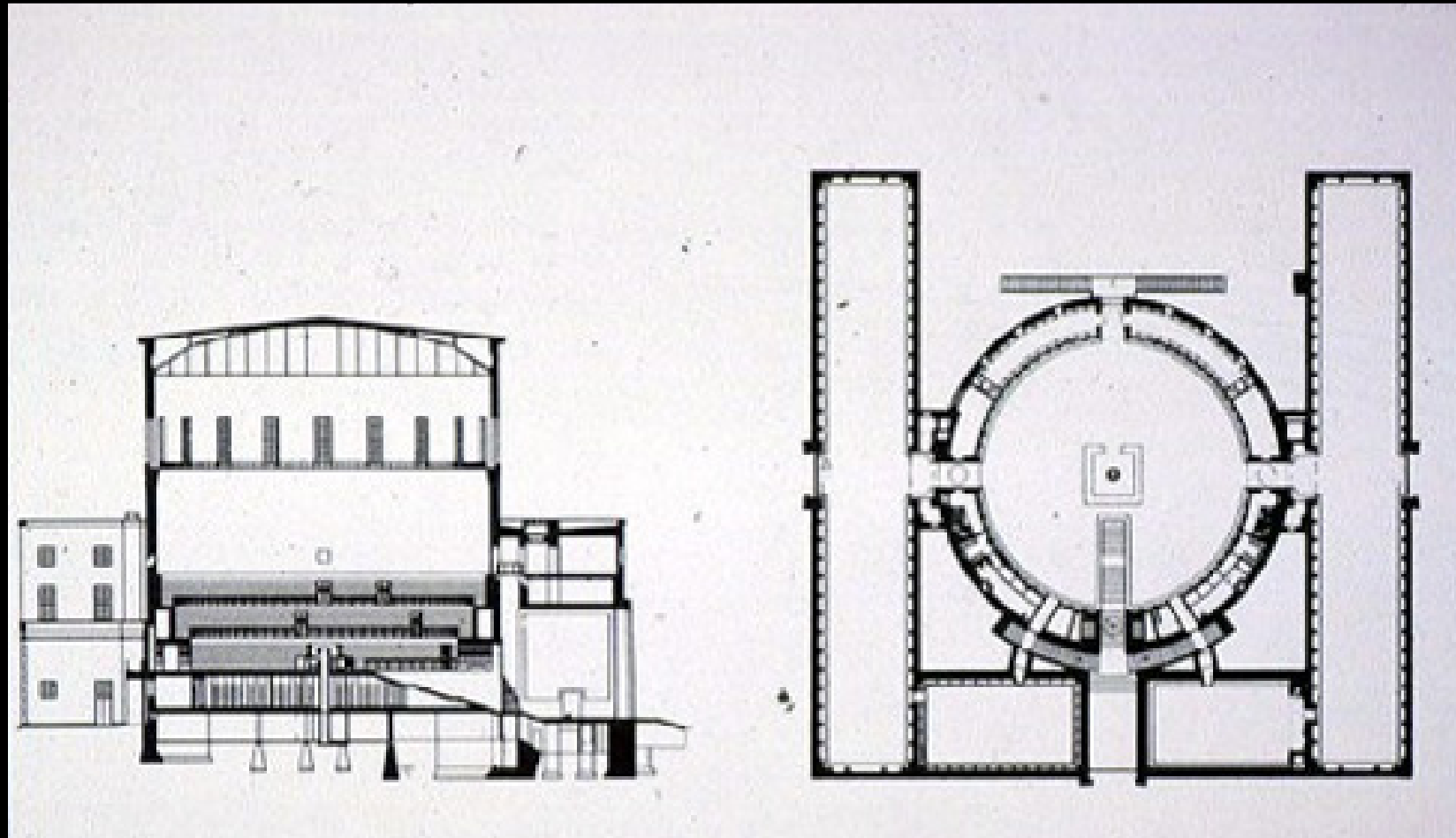




Stockholm Library  
Stockholm, Sweden  
Gunnar Asplund  
1920-1928













Guggenheim  
Museum

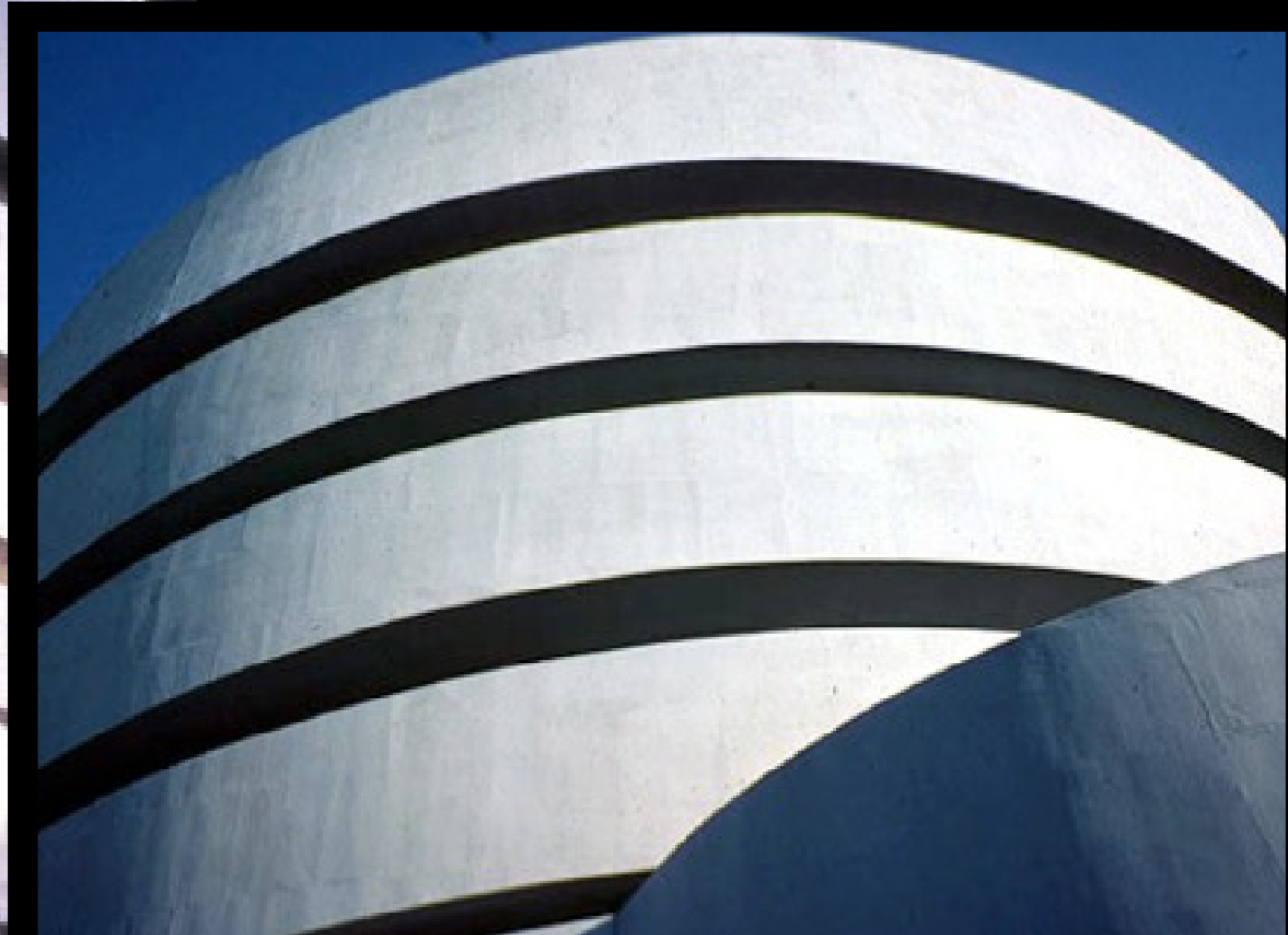
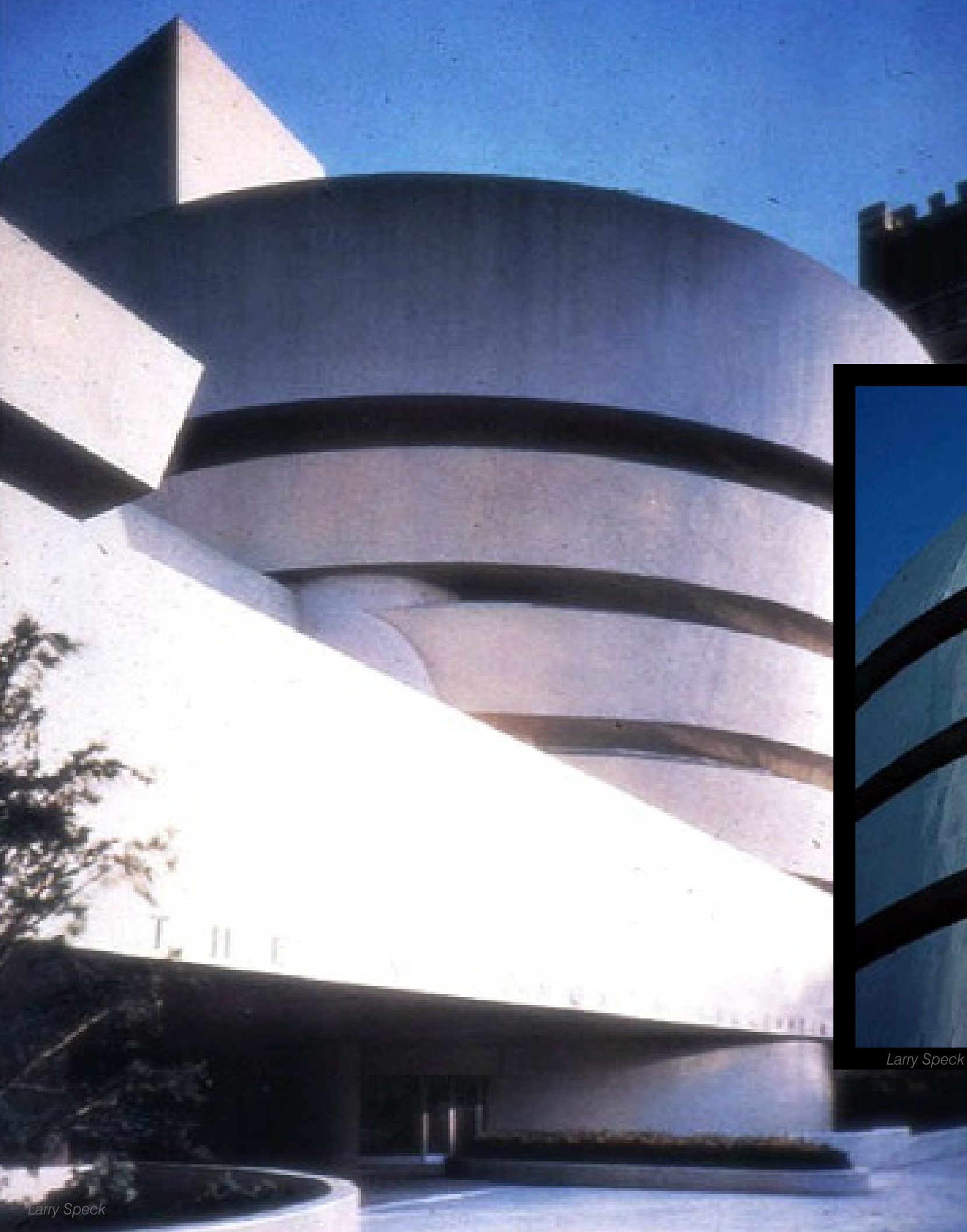
New York,  
New York

Frank Lloyd  
Wright

1956-1959



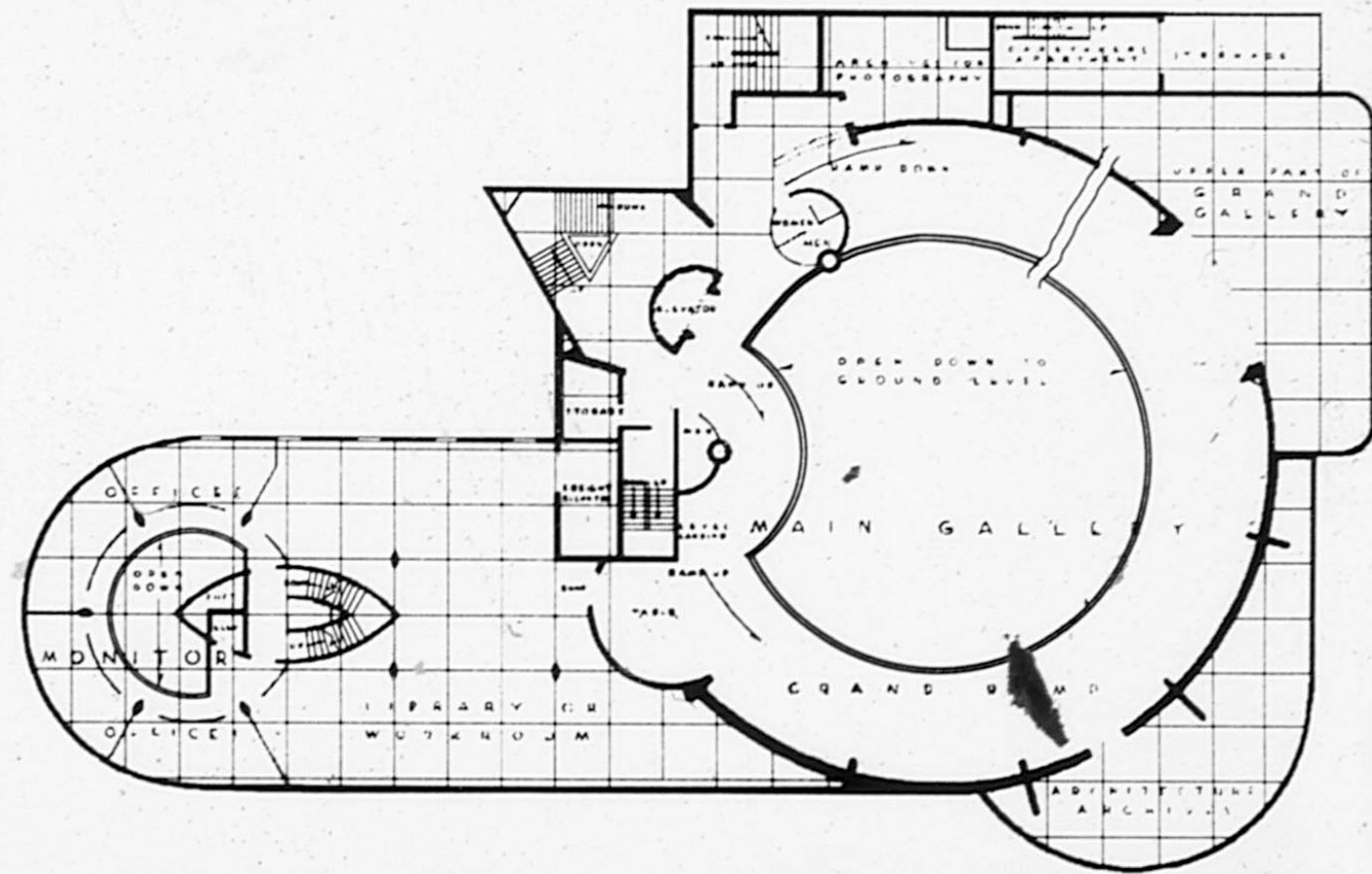
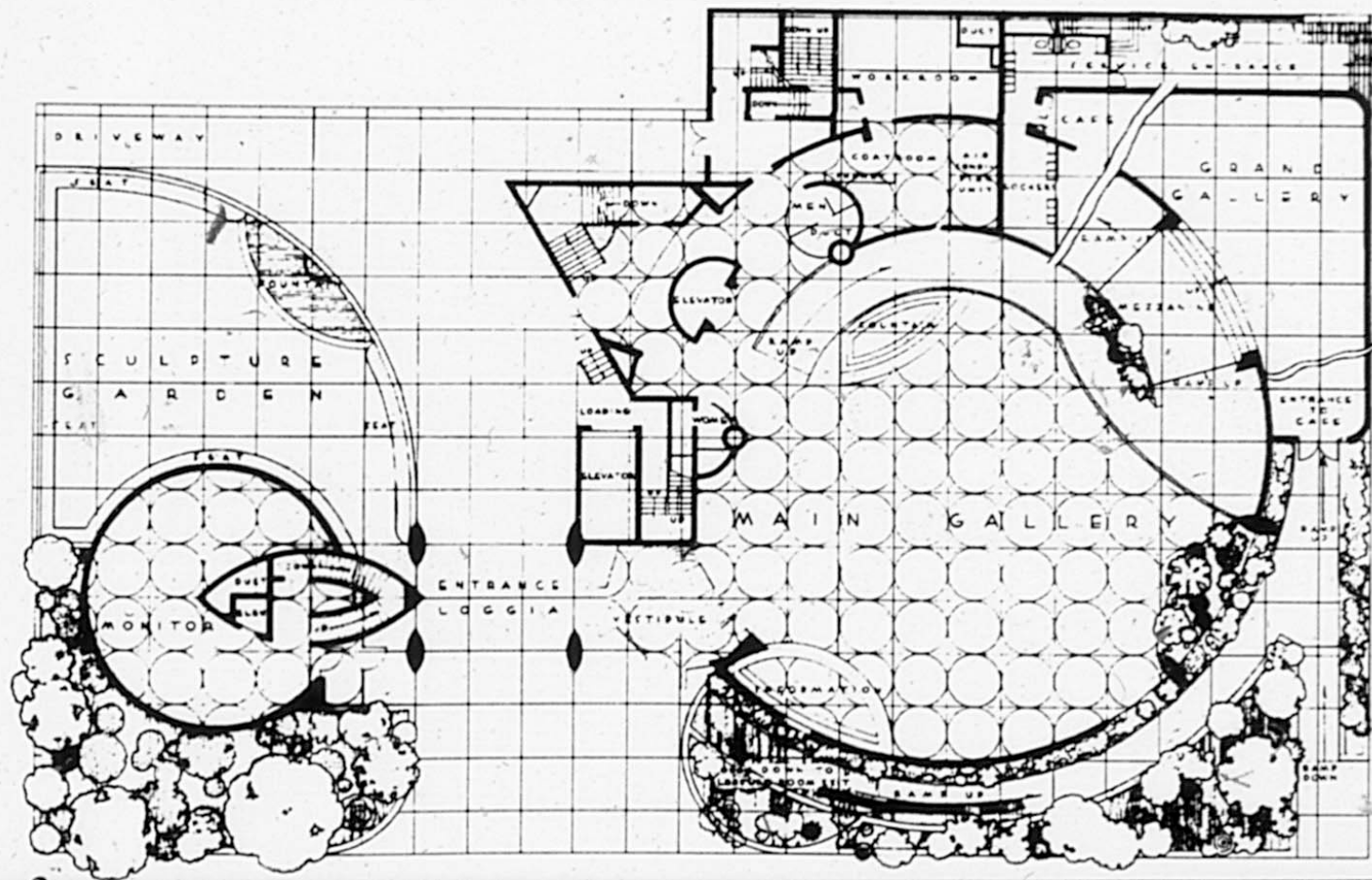




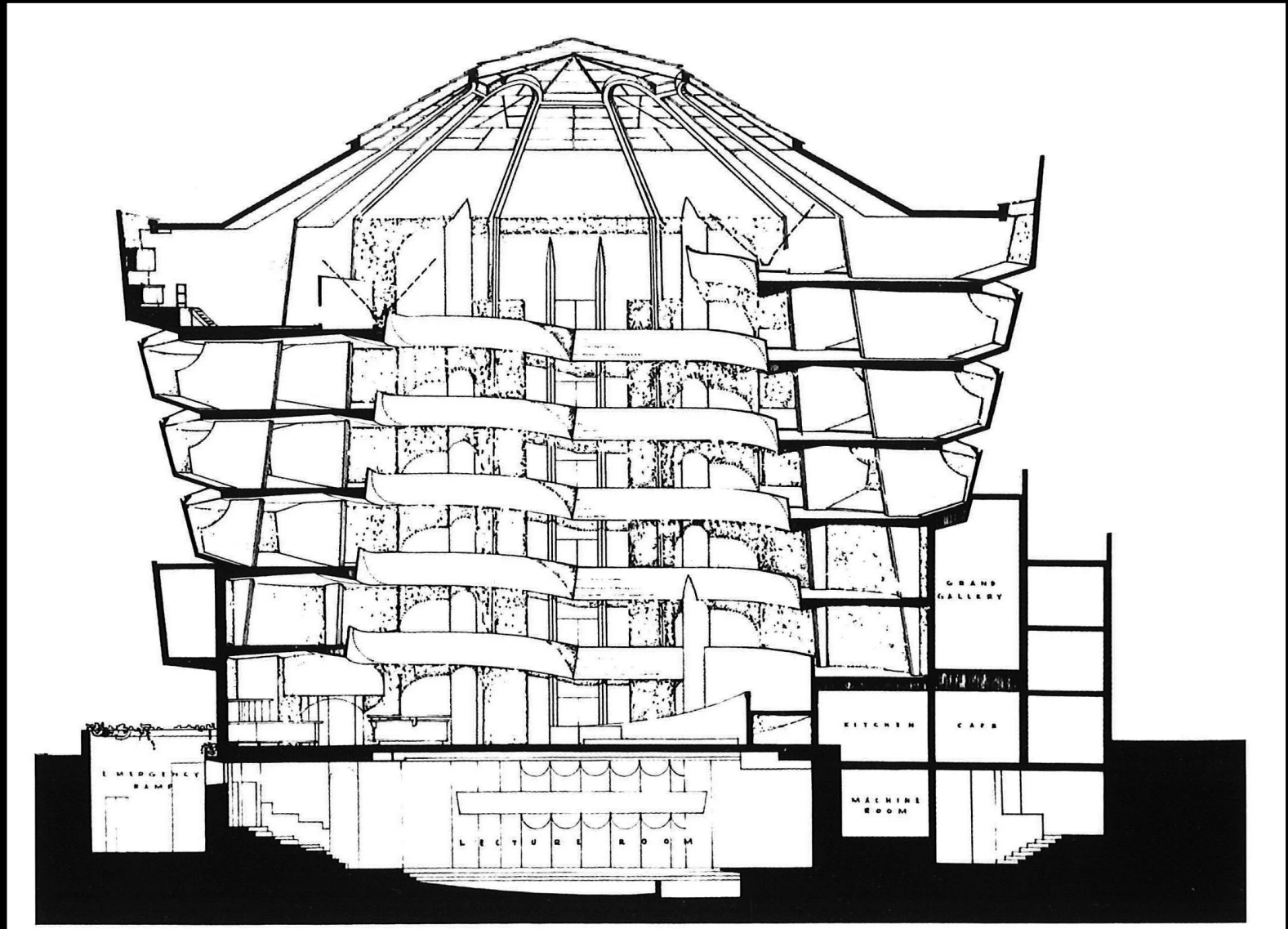
Larry Speck

Larry Speck









<https://www.tehne.com/>





Larry Speck





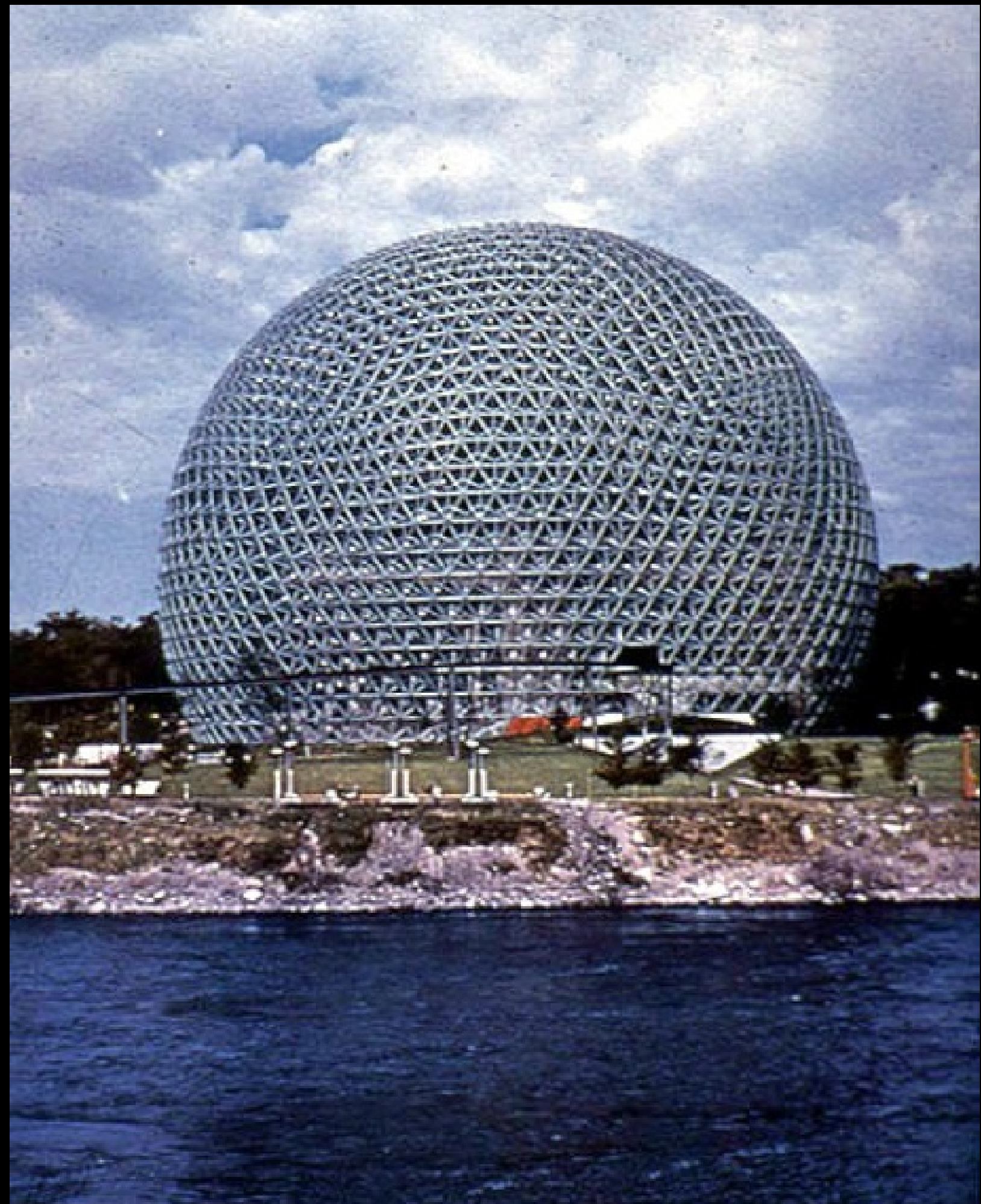
Larry Speck



<https://sciame.com/>



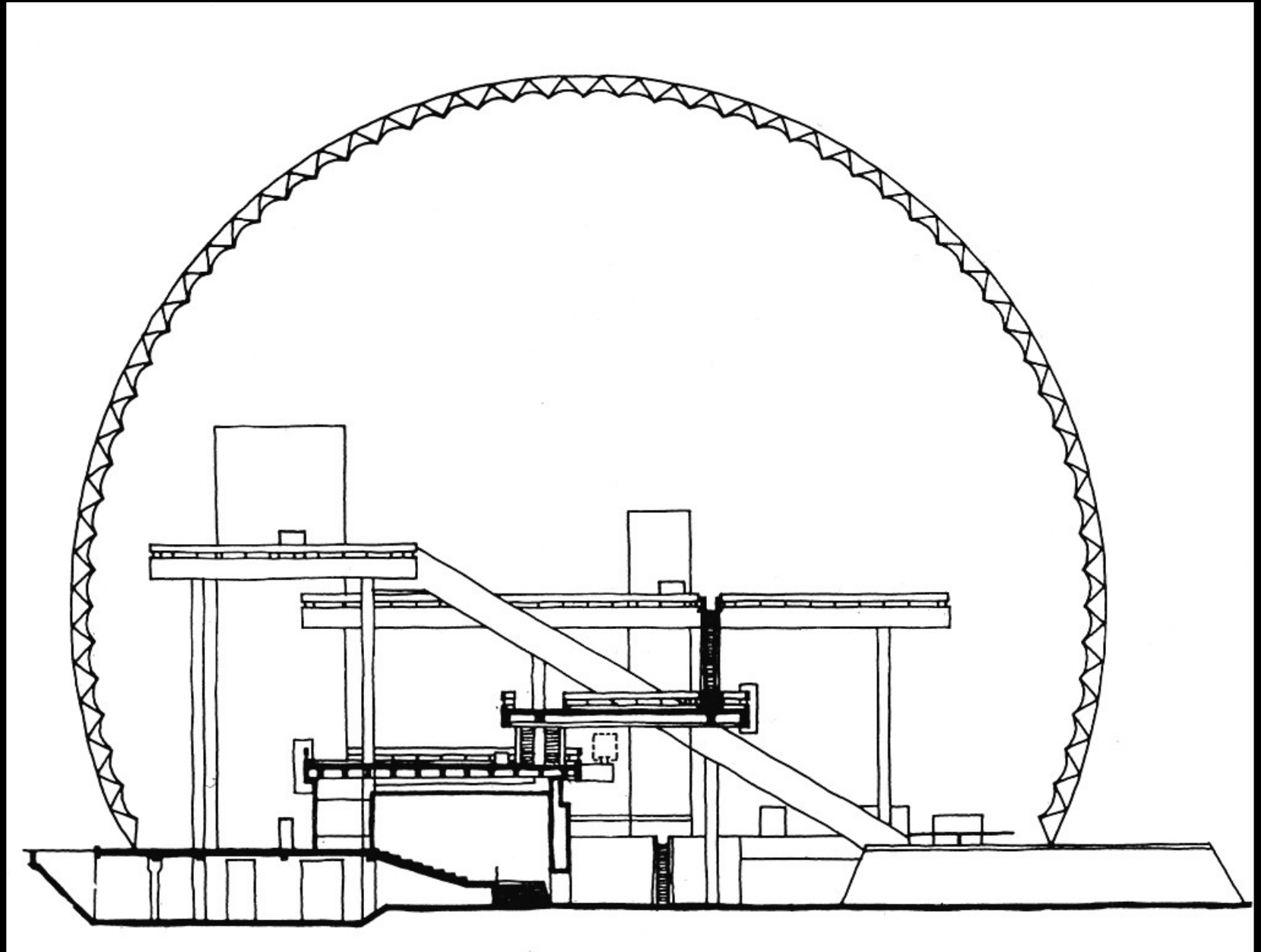
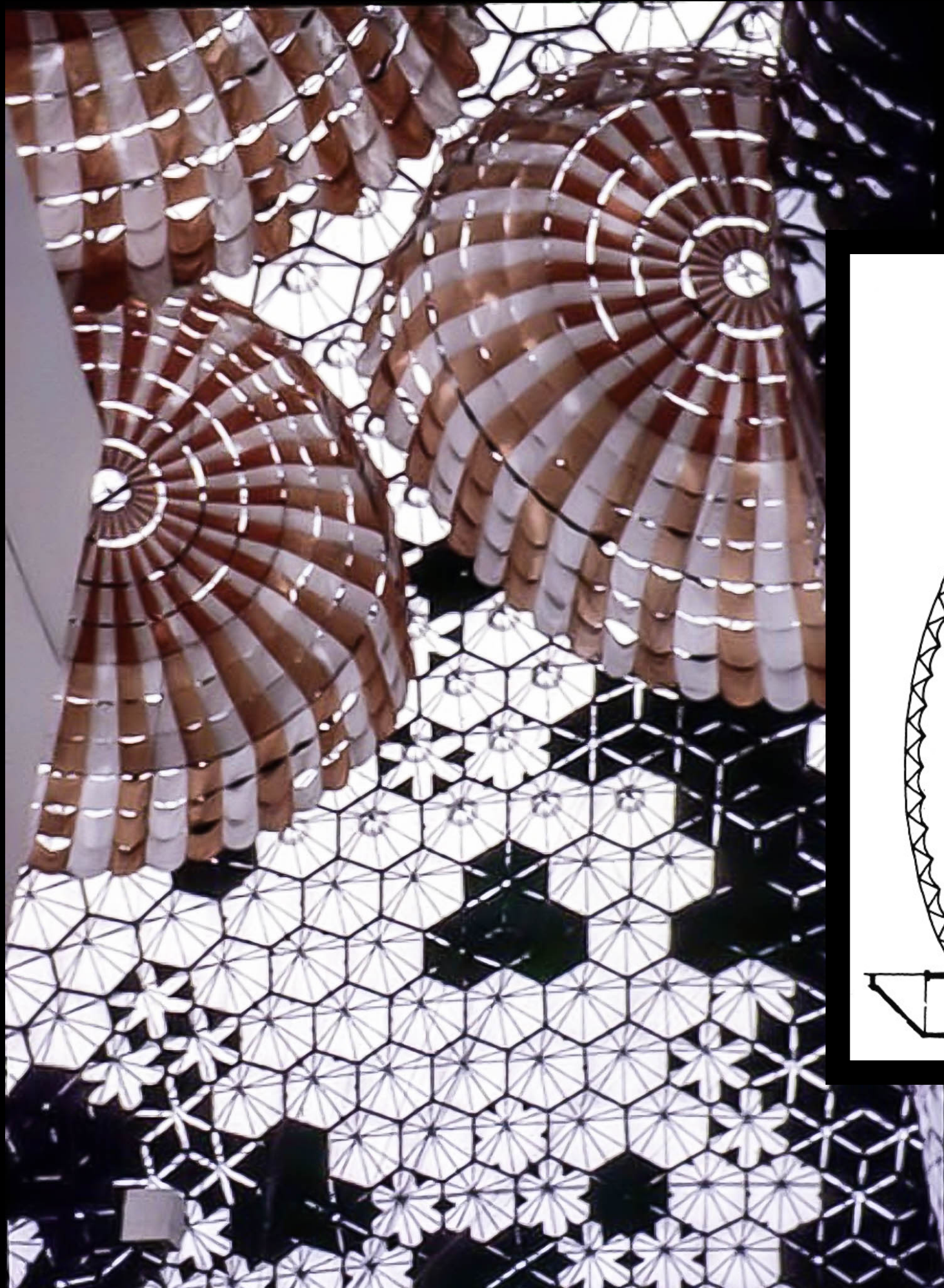
U.S. Pavilion at Expo  
Montreal, Canada  
Buckminster Fuller  
1967





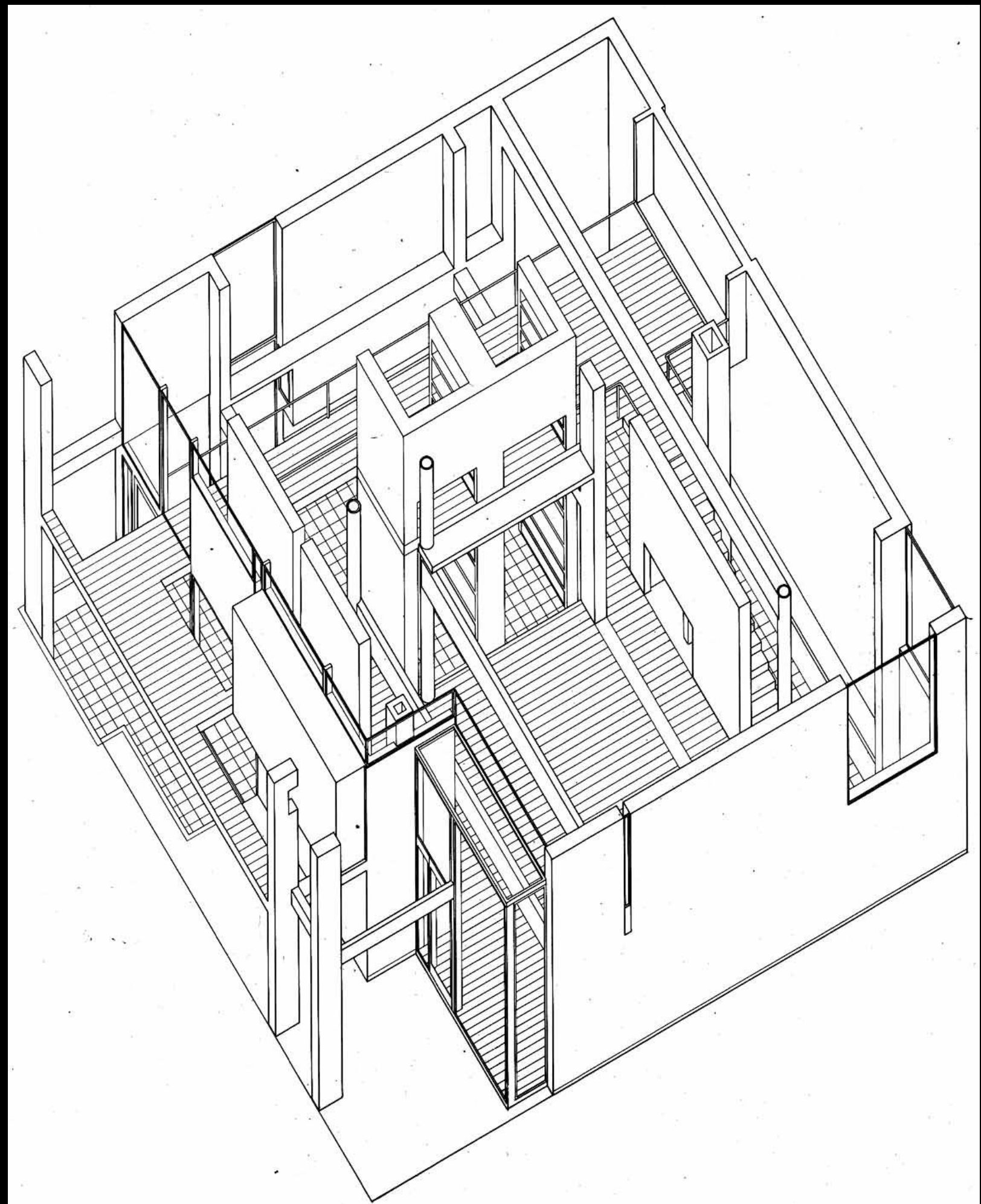




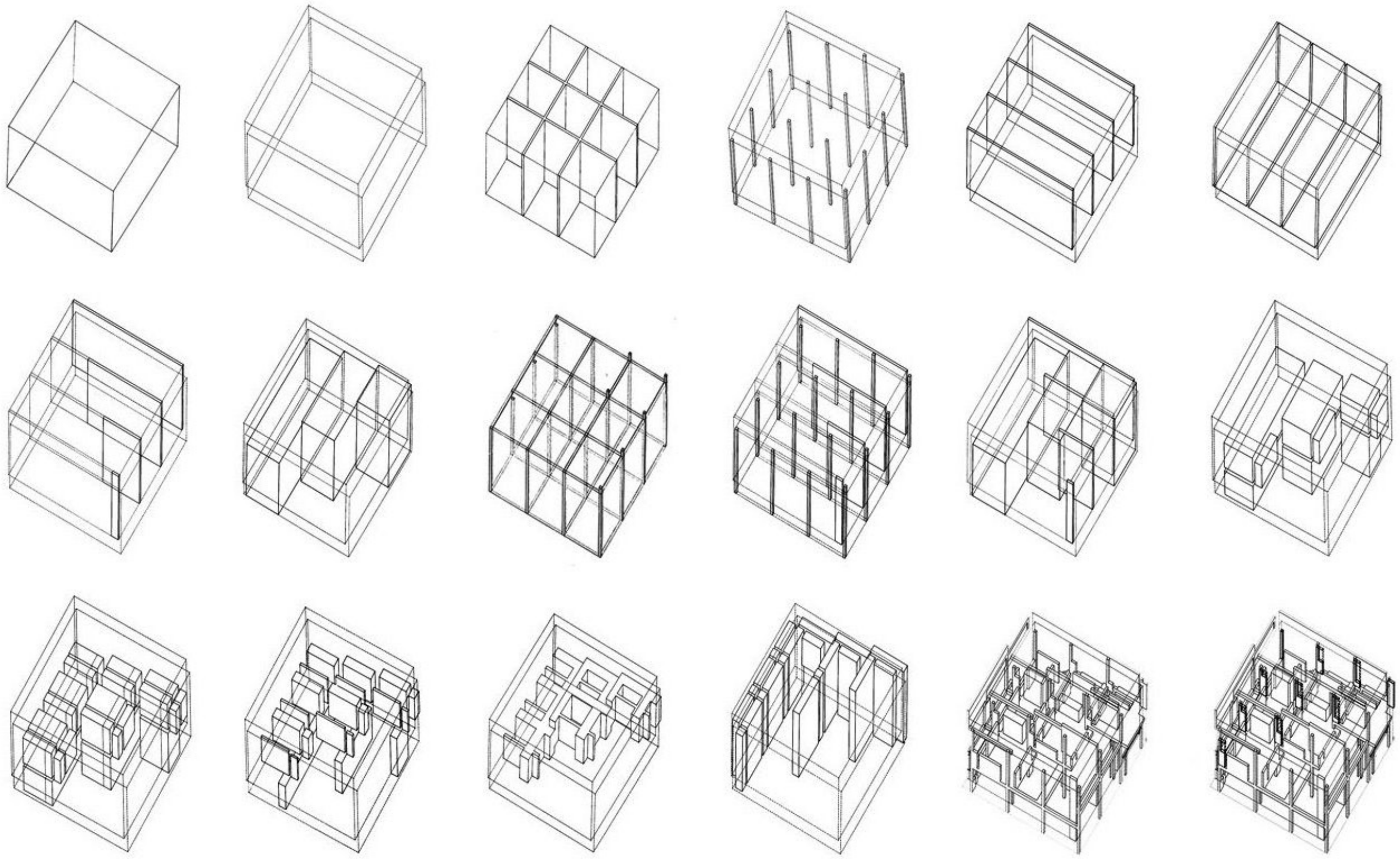




Houses  
Peter Eisenman  
1967-1969









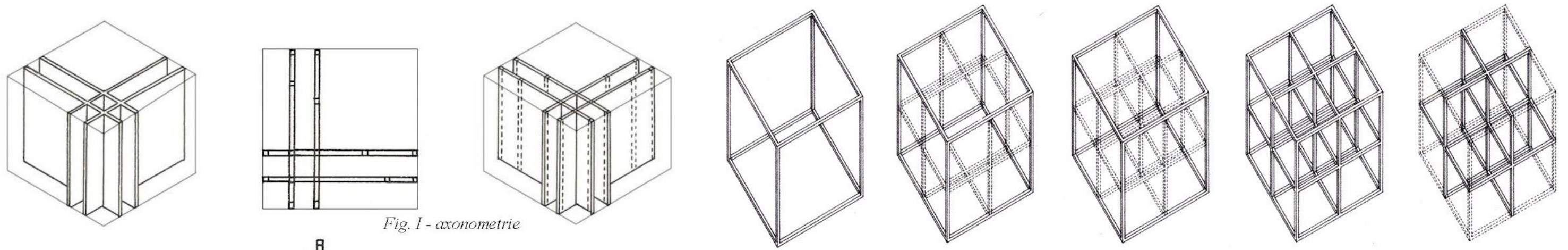


Fig. I - axonometrie

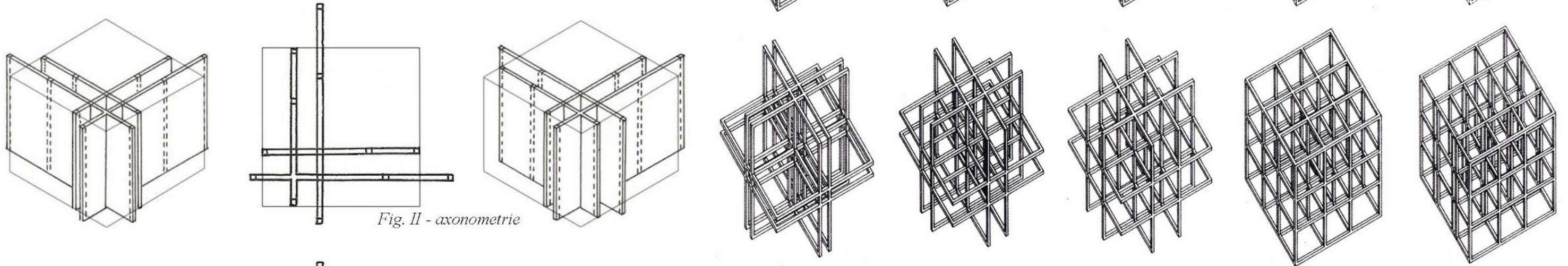


Fig. II - axonometrie

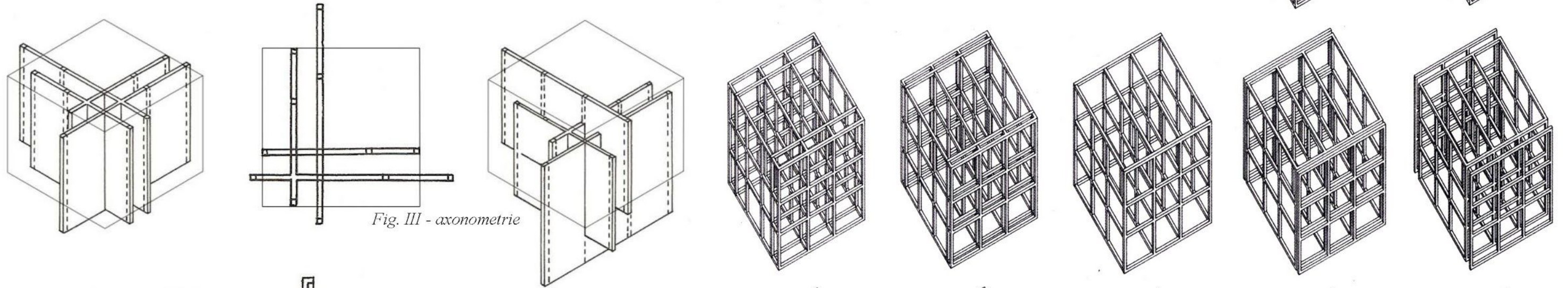


Fig. III - axonometrie

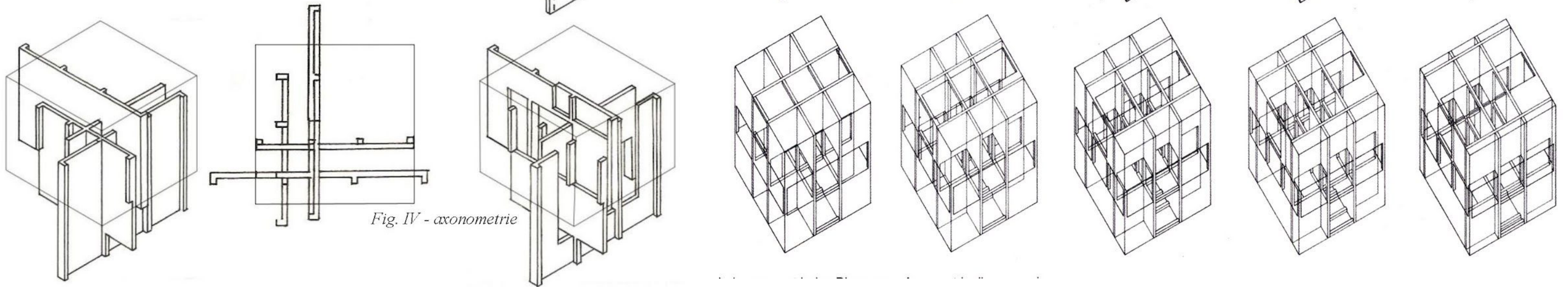
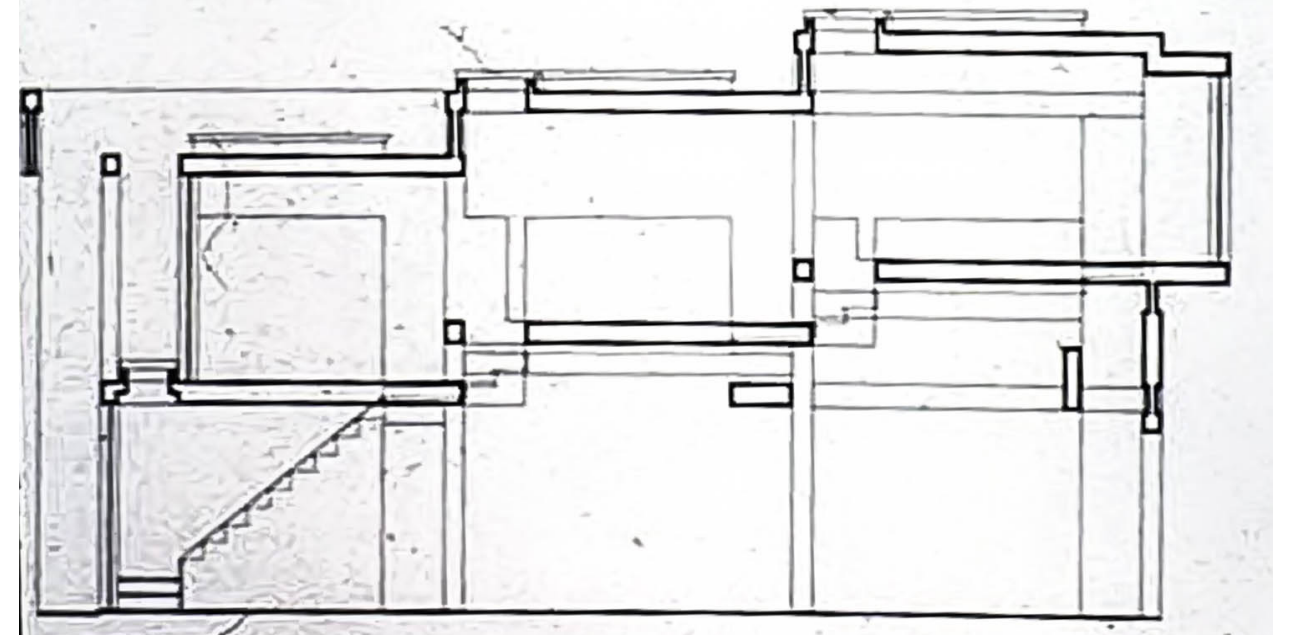
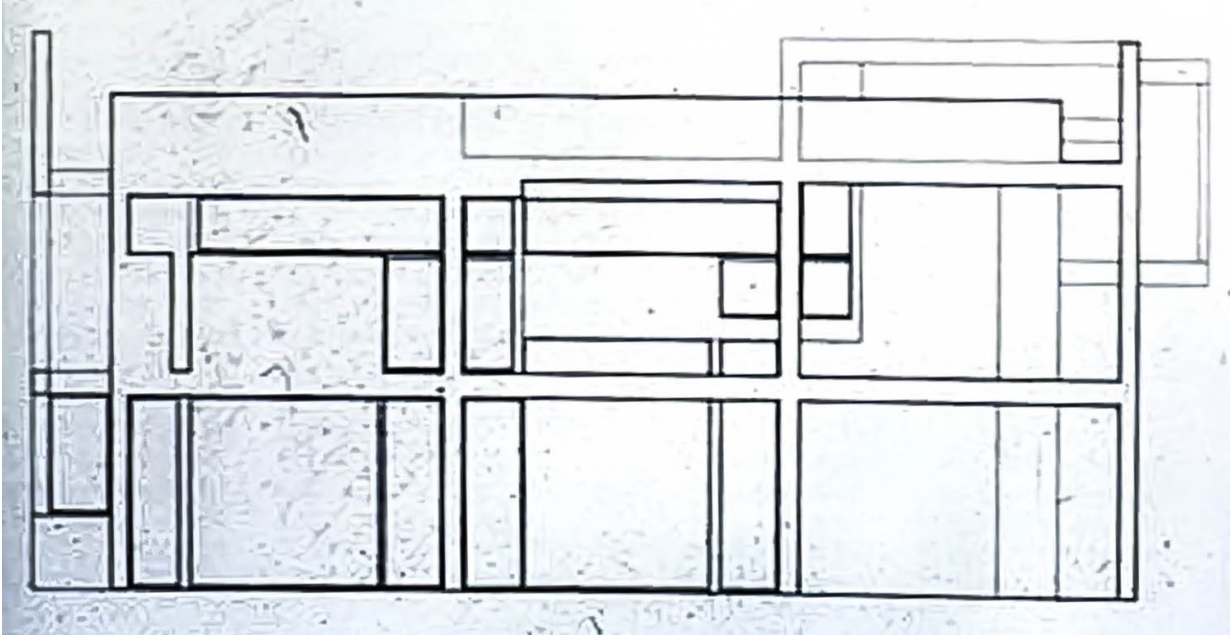
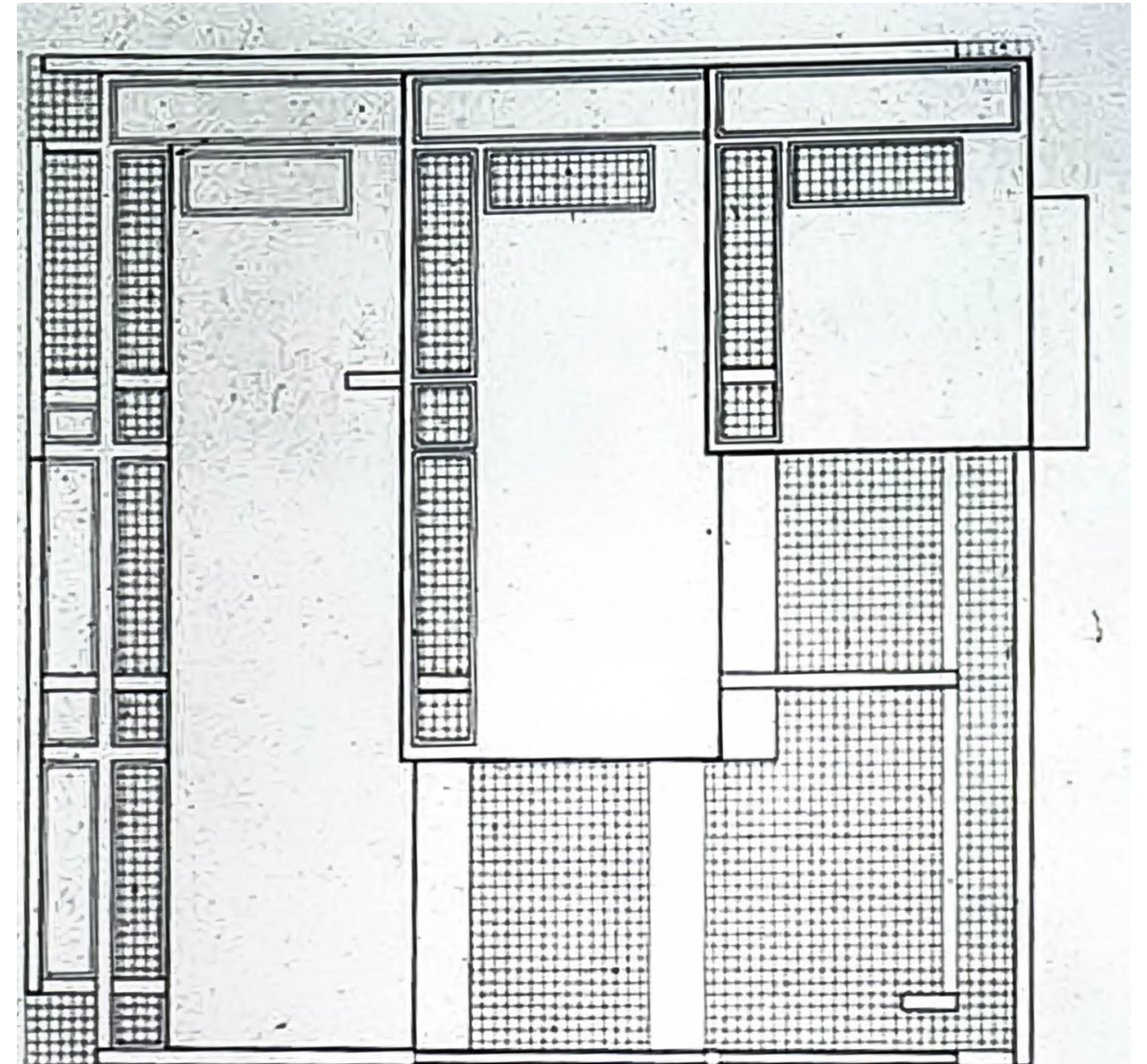
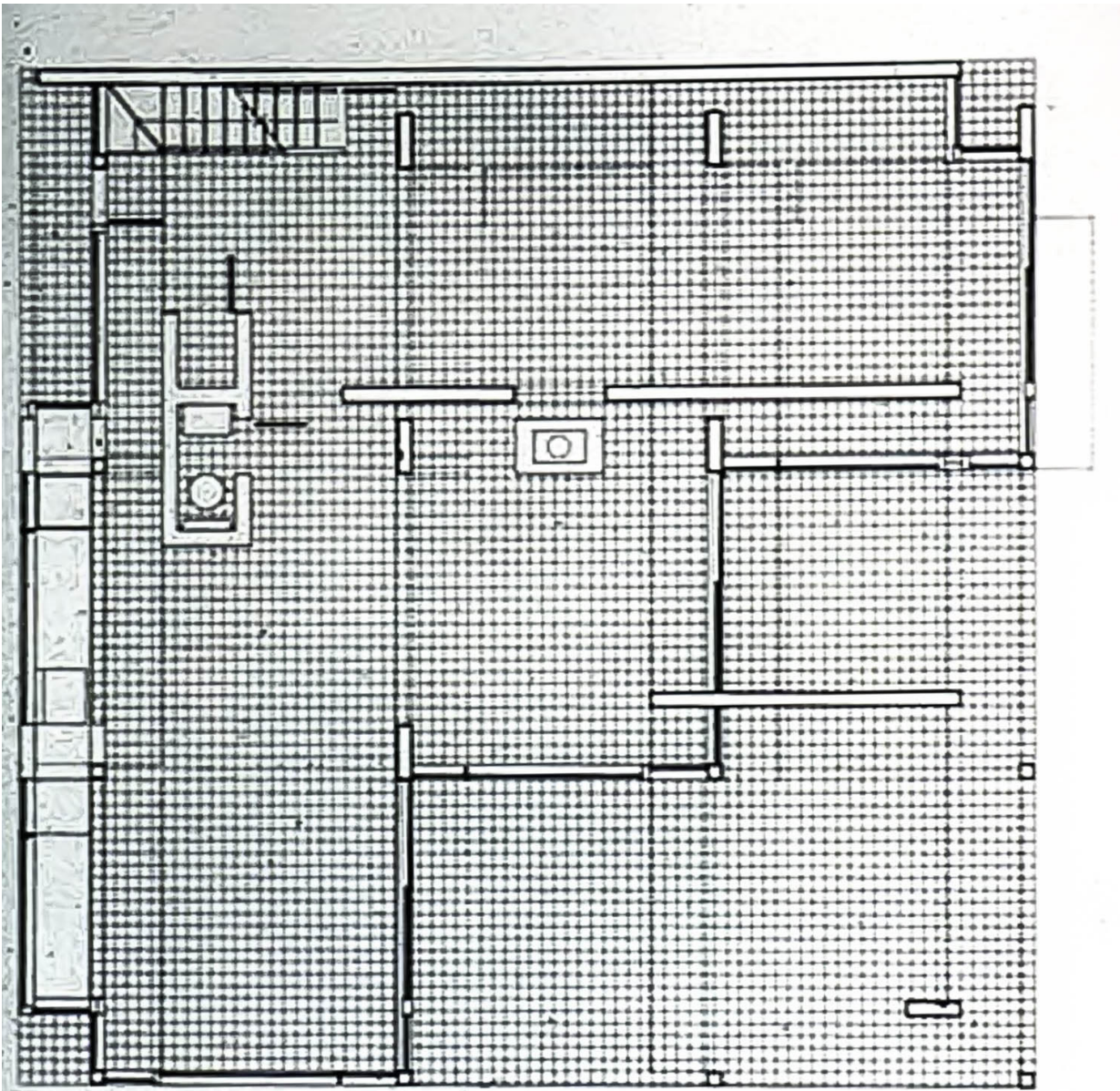
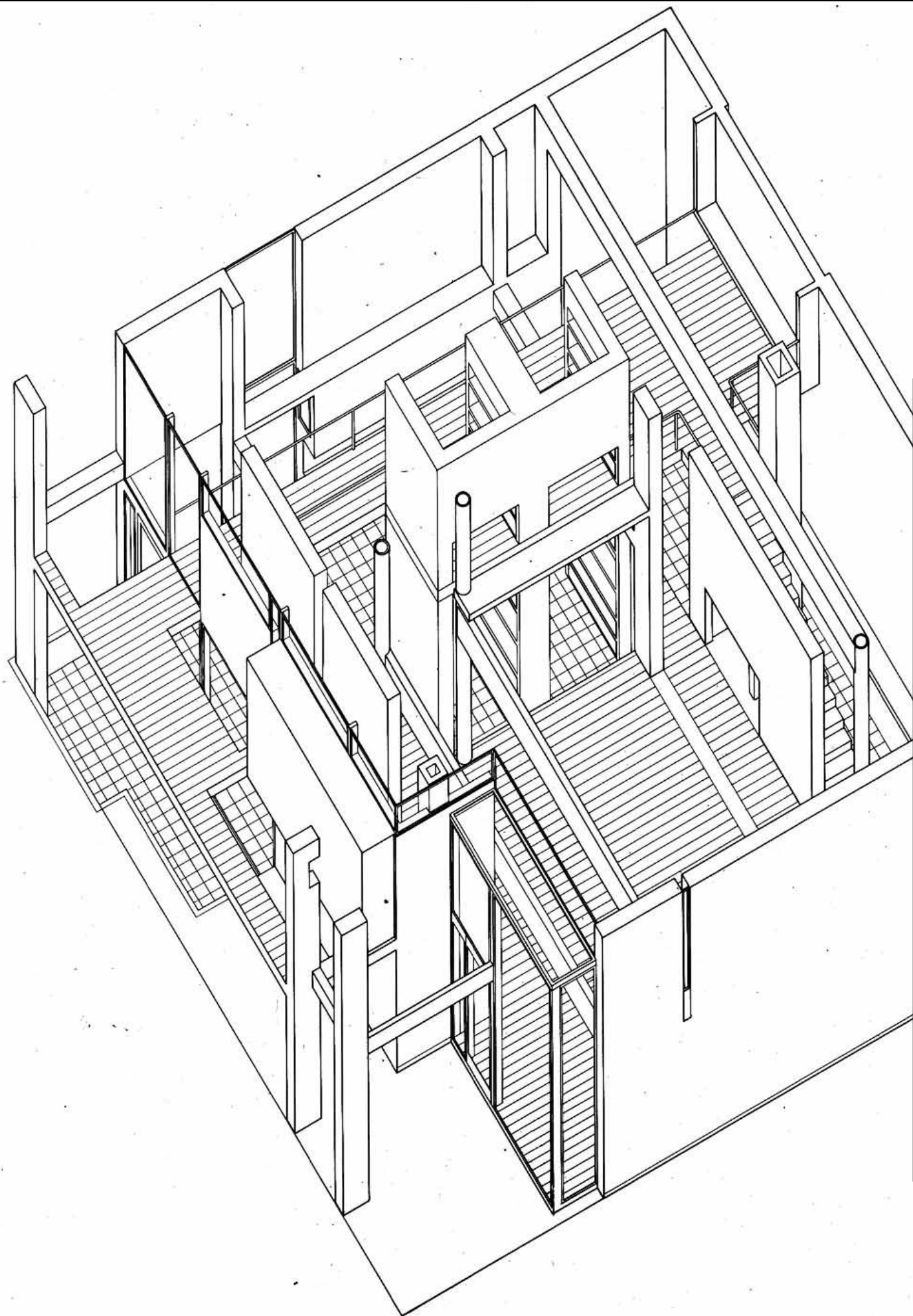


Fig. IV - axonometrie



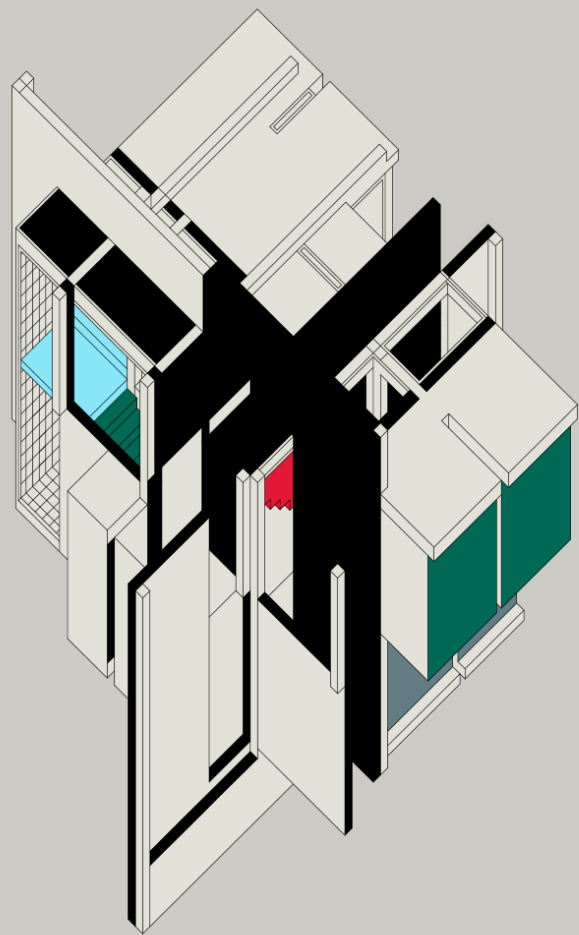
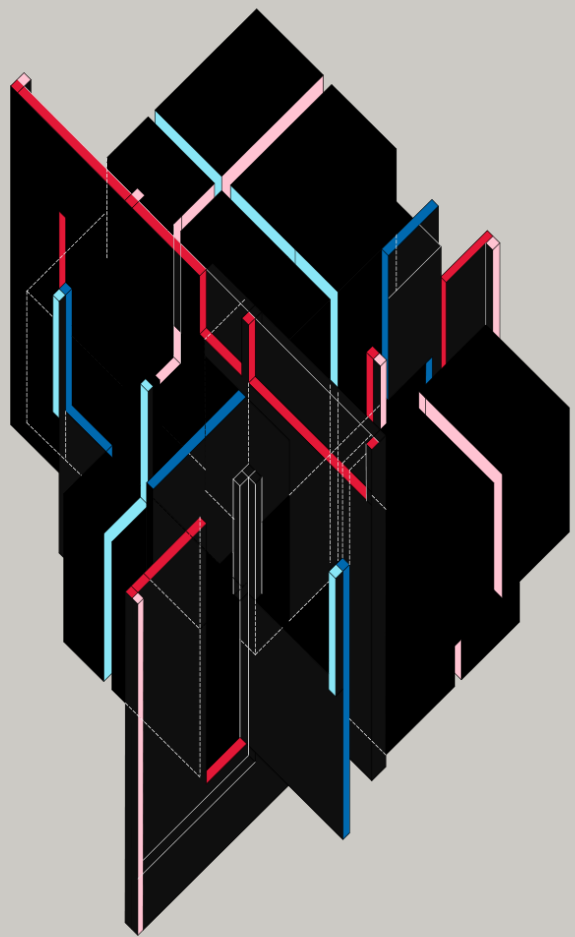






<https://www.pinterest.com>

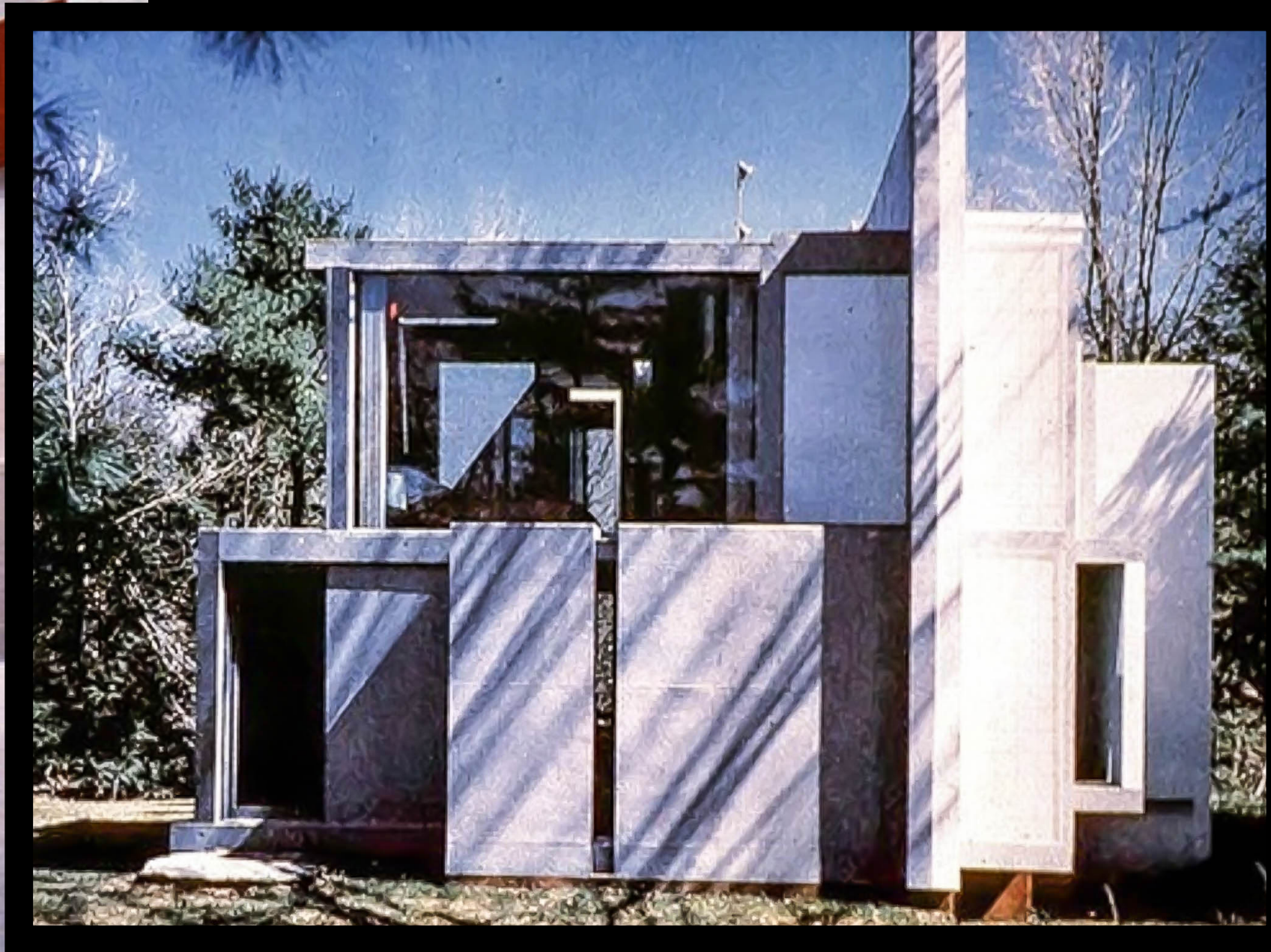














Zollverein School of  
Design

Essen, Germany

Kazuyo Sejima

2006



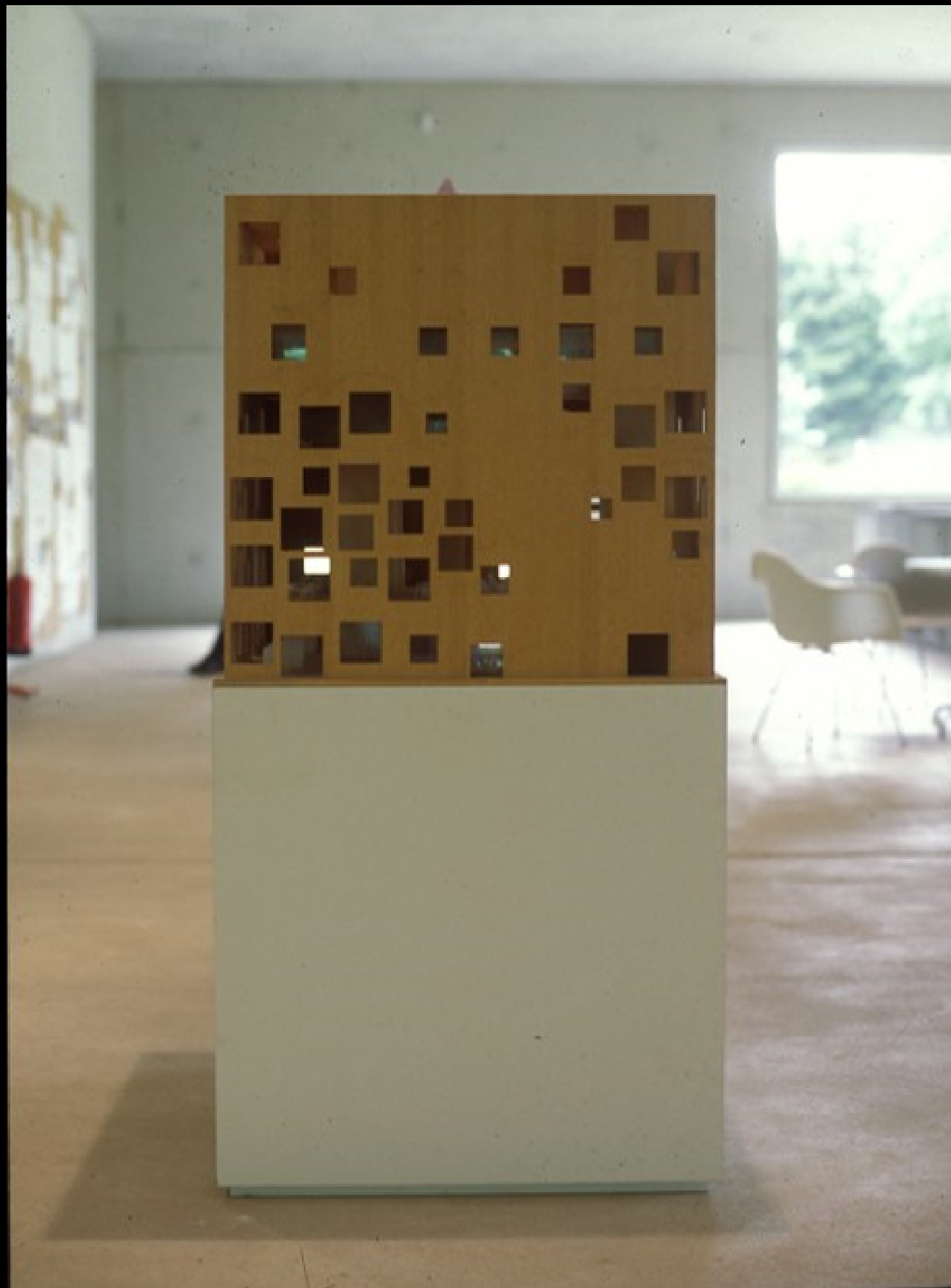








Larry Speck



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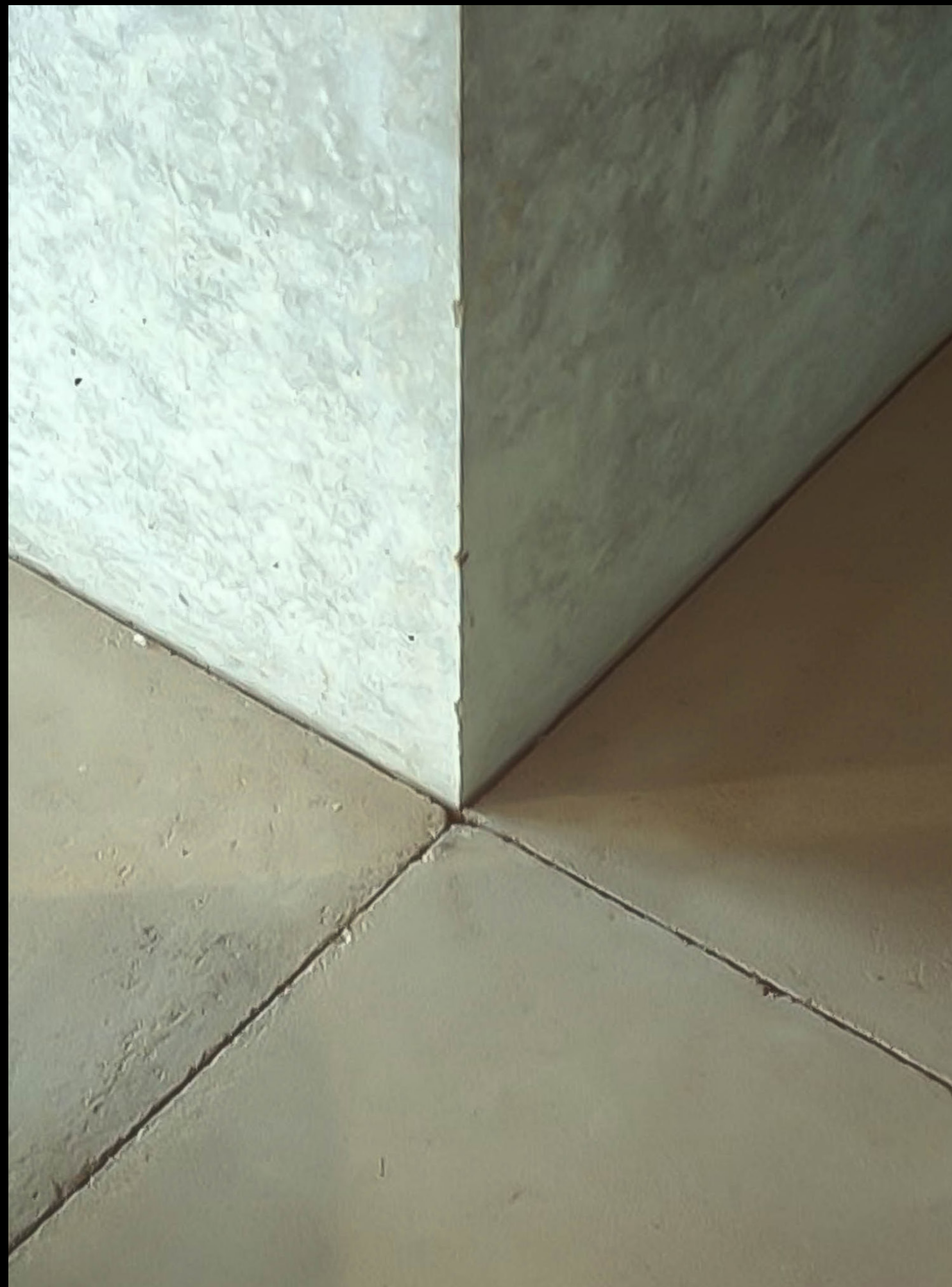








Larry Speck



Larry Speck



Capitol Buildings  
Dacca, Bangladesh  
Louis Kahn  
1962-1974





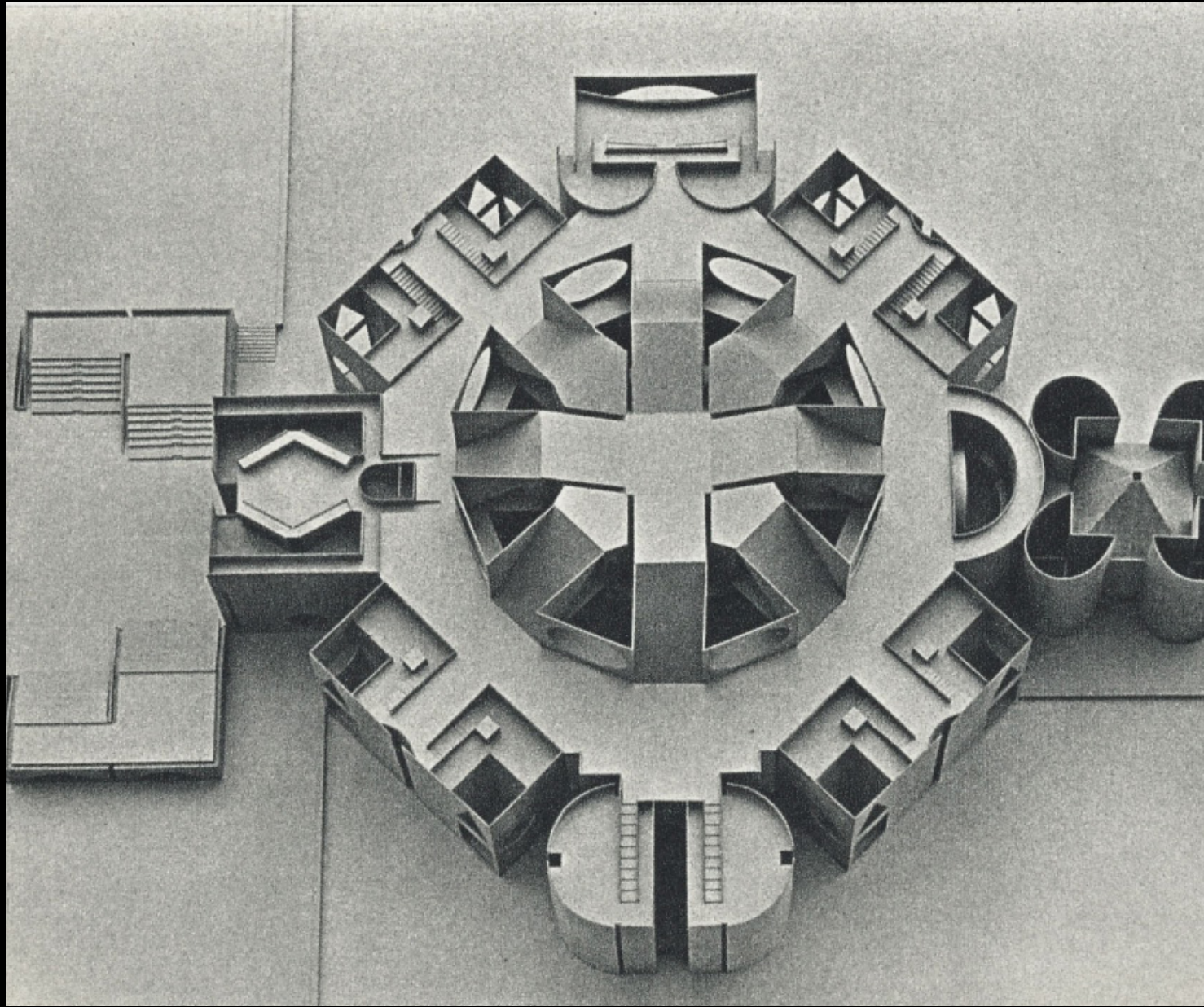


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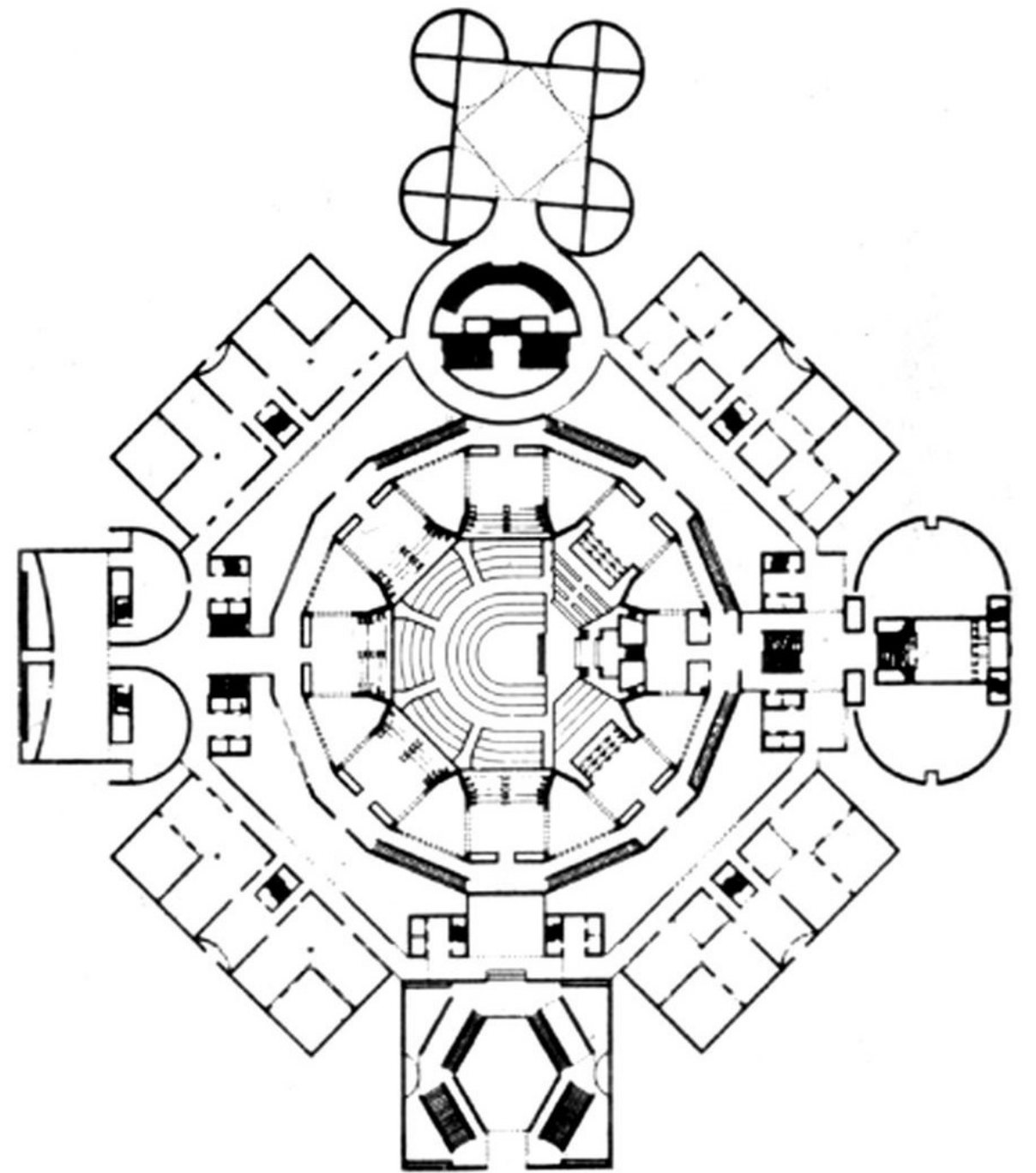


Larry Speck













Larry Speck



Larry Speck





Larry Speck





Larry Speck



Larry Speck





Larry Speck



Larry Speck



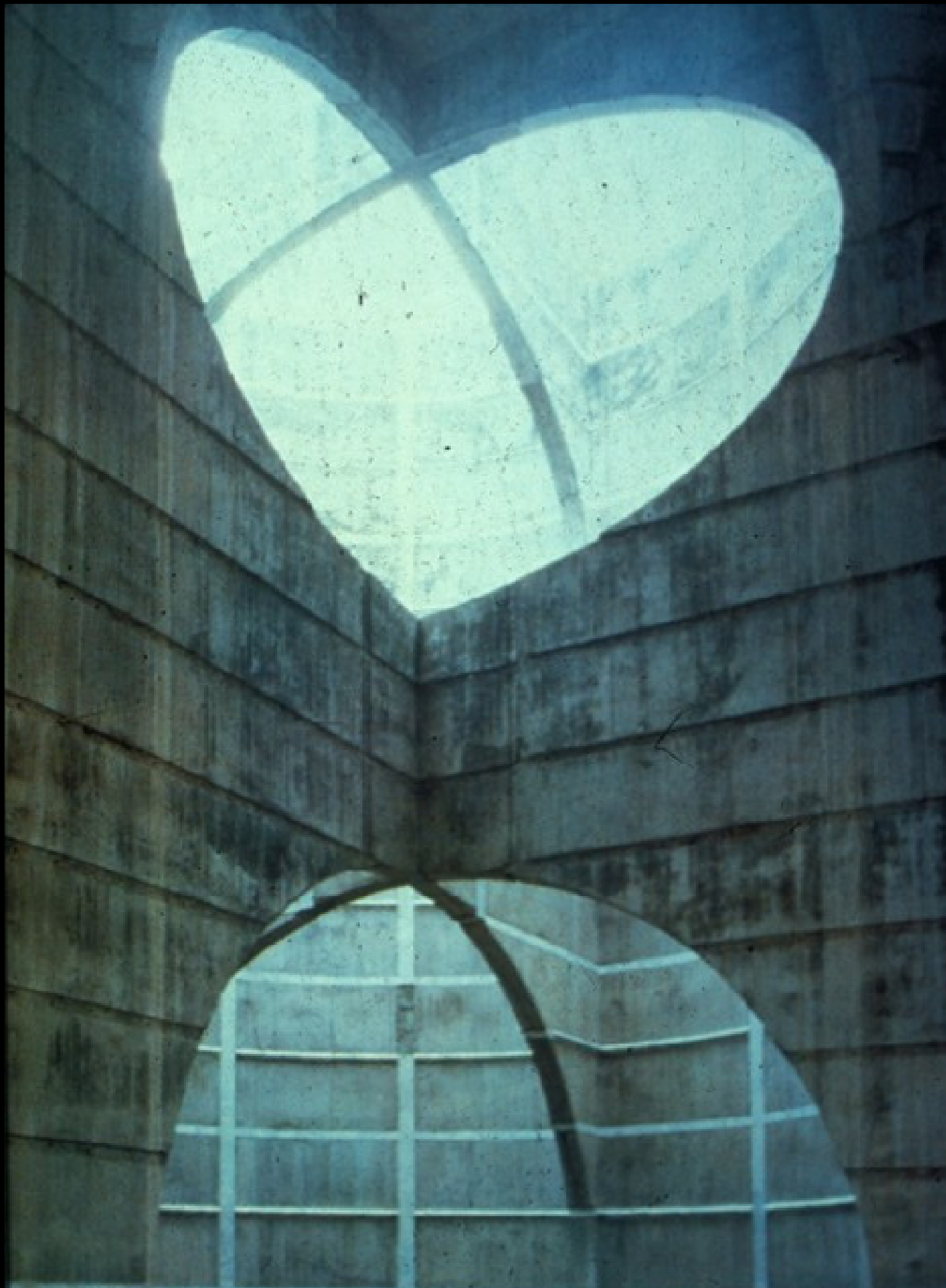


Larry Speck



Larry Speck





Larry Speck



Larry Speck