

1 TECTÓNICA



ELEMENTOS







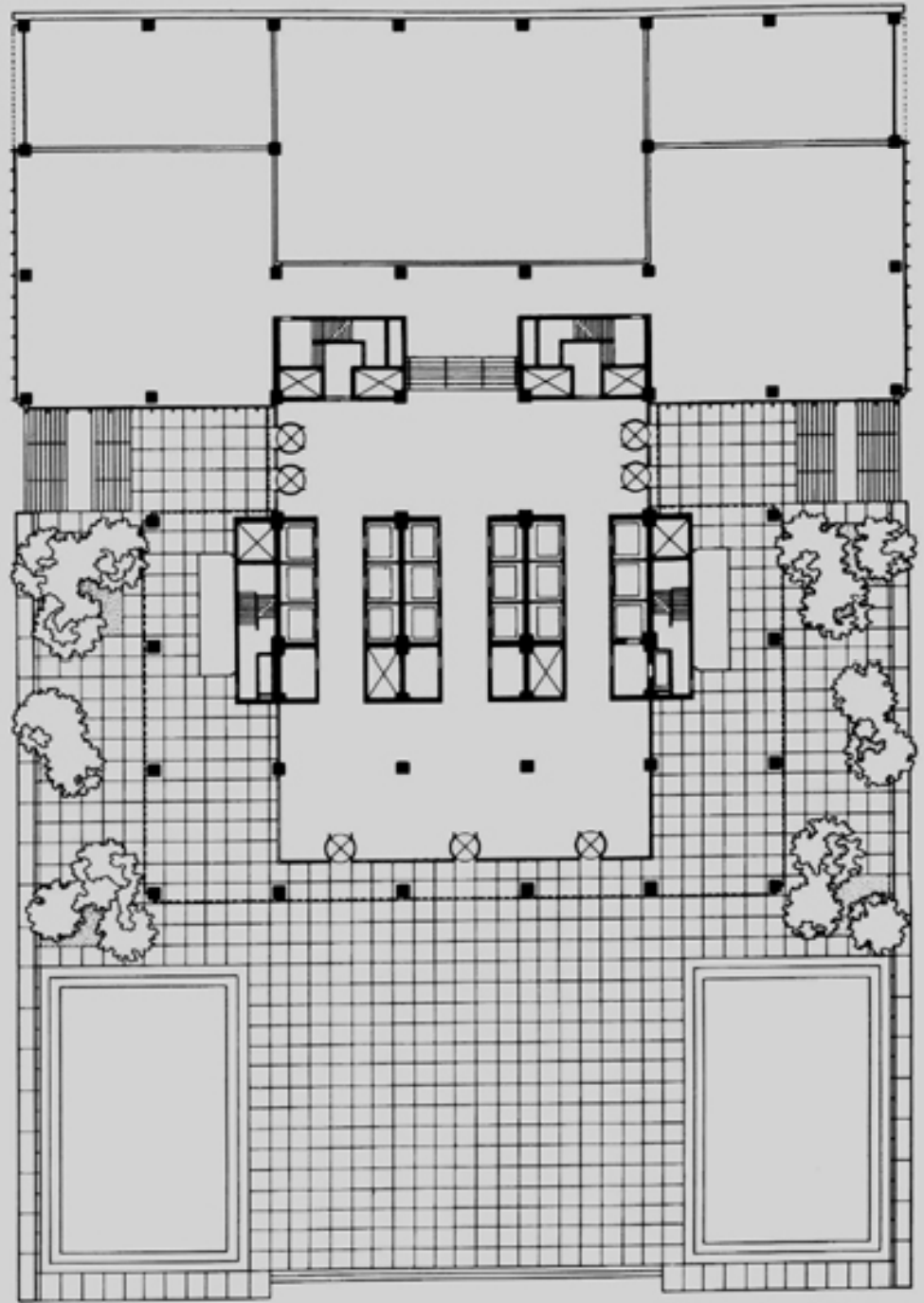


PUENTE SOBRE EL RIO EBRO (LOGROÑO). 140 M. DE LUZ
BRIDGE OVER THE EBRO RIVER (LOGROÑO). SPAN LENGTH 140 M.

2 TECTÓNICA DEL POSMODERNISMO

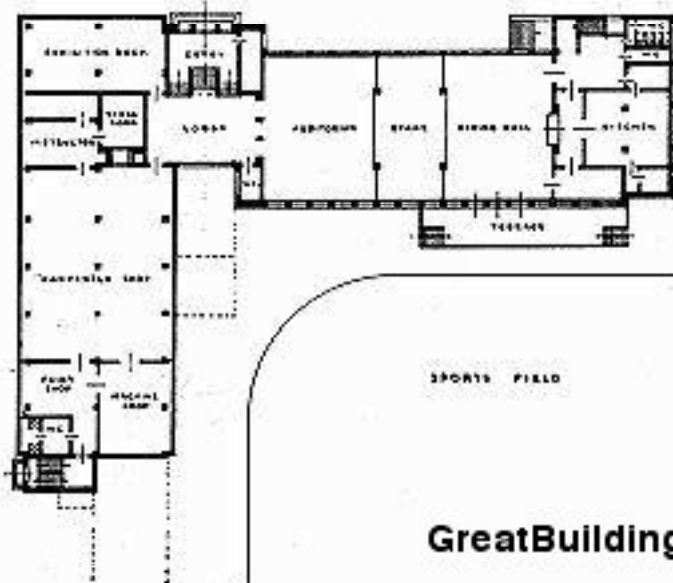


EDIFICIO SEAGRAM
MIES VAN DER ROHE
1958

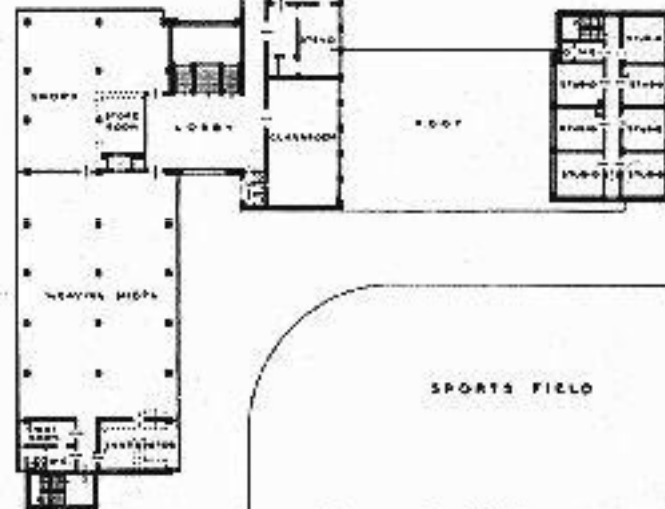




BAUHAUS
WALTER GROPIUS
1919



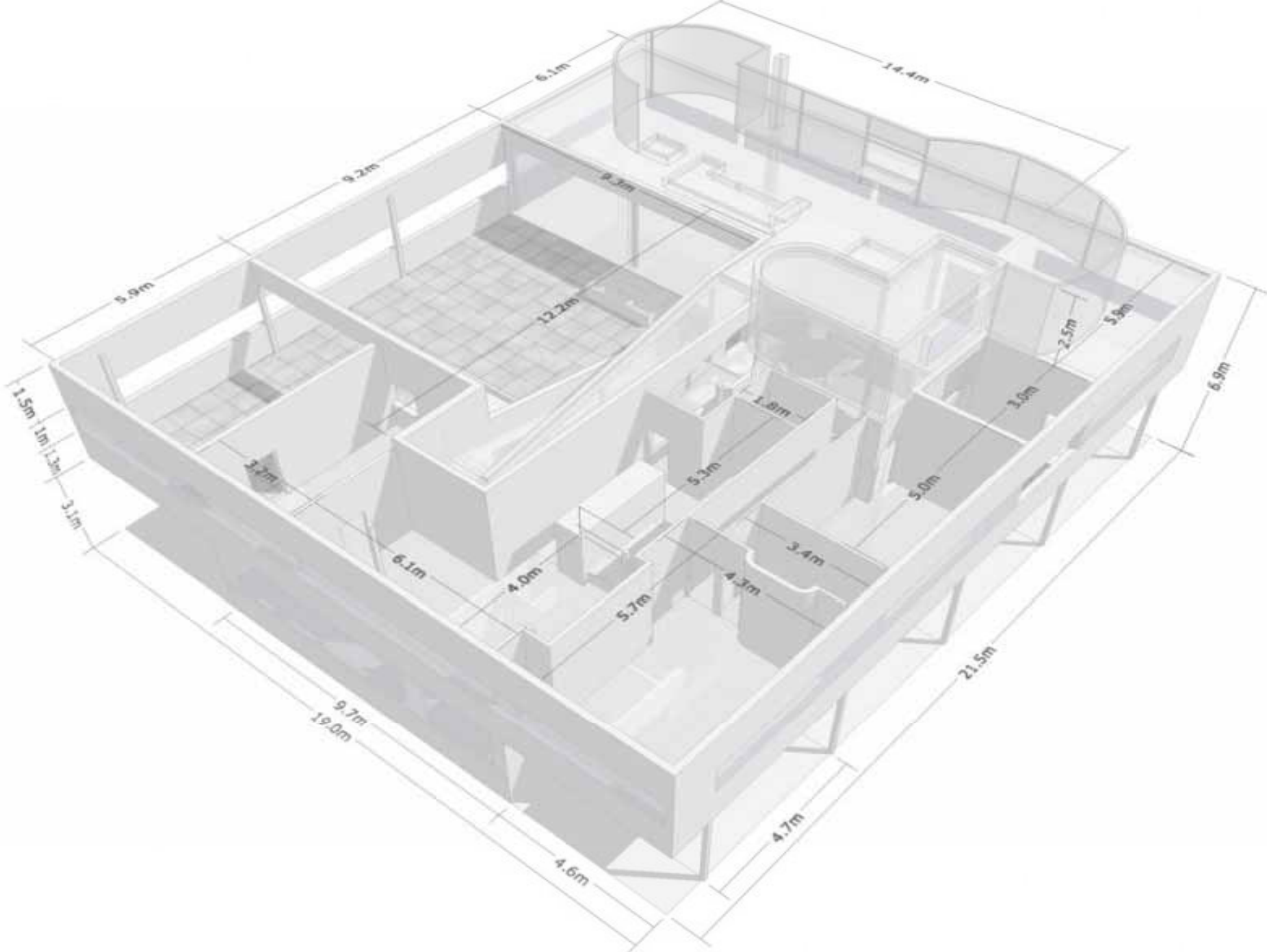
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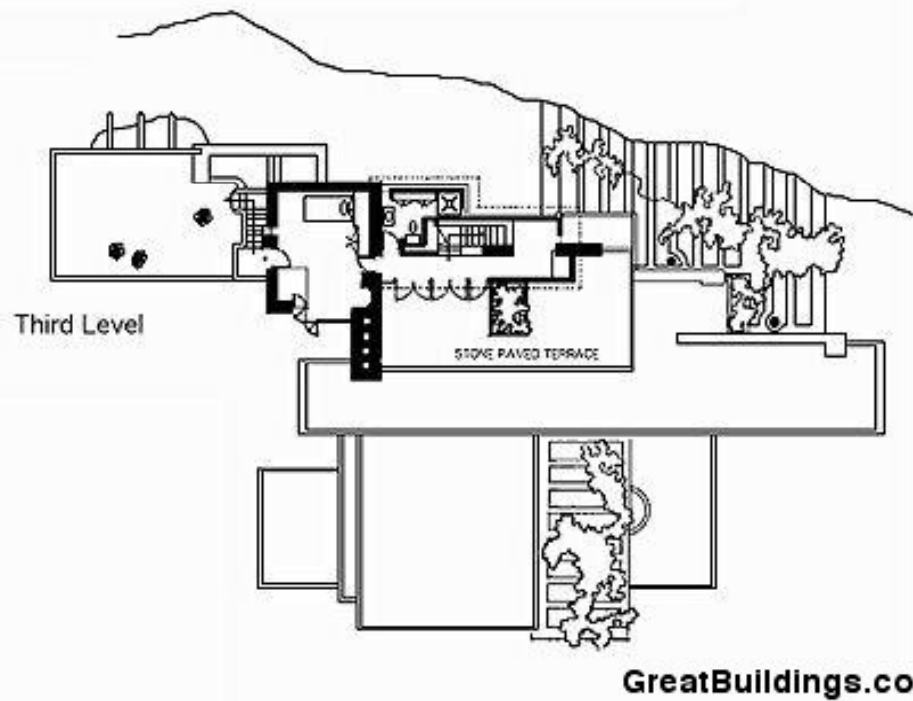
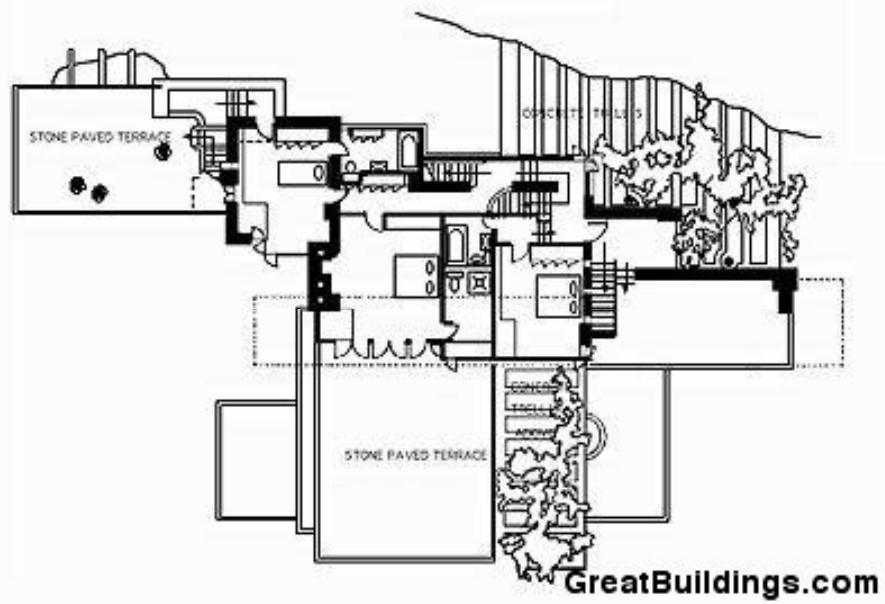


VILLA SAVOYE
LE CORBUSIER
1929





CASA DE LA CASCADA
FRANK LLOYD WRIGHT
1939



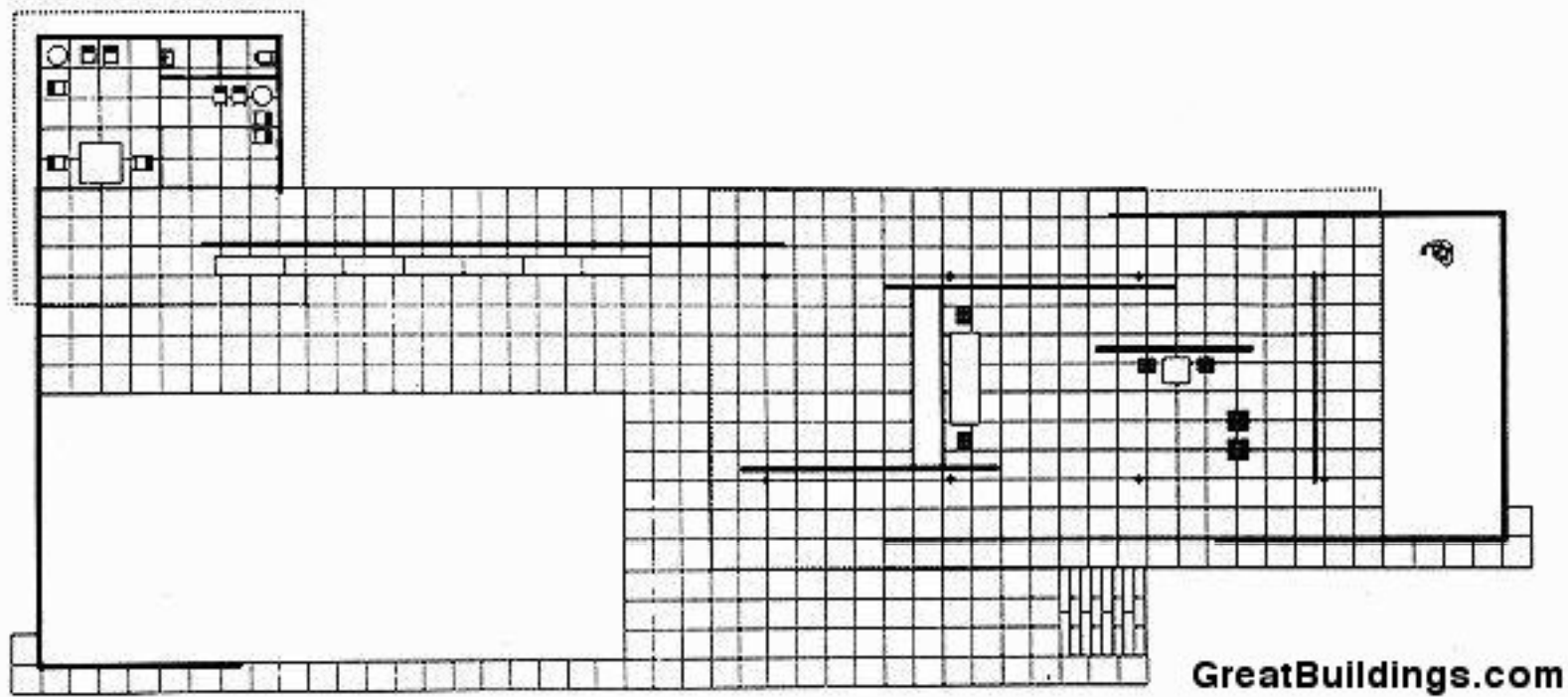
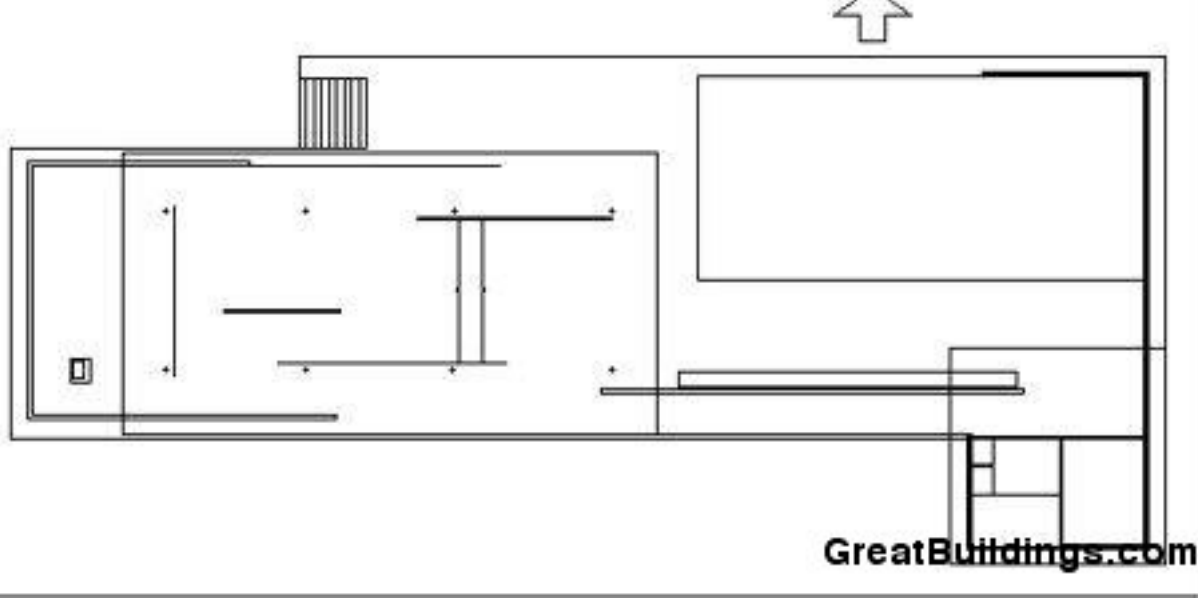
3 INTERPRETACIÓN DE LA TECTÓNICA

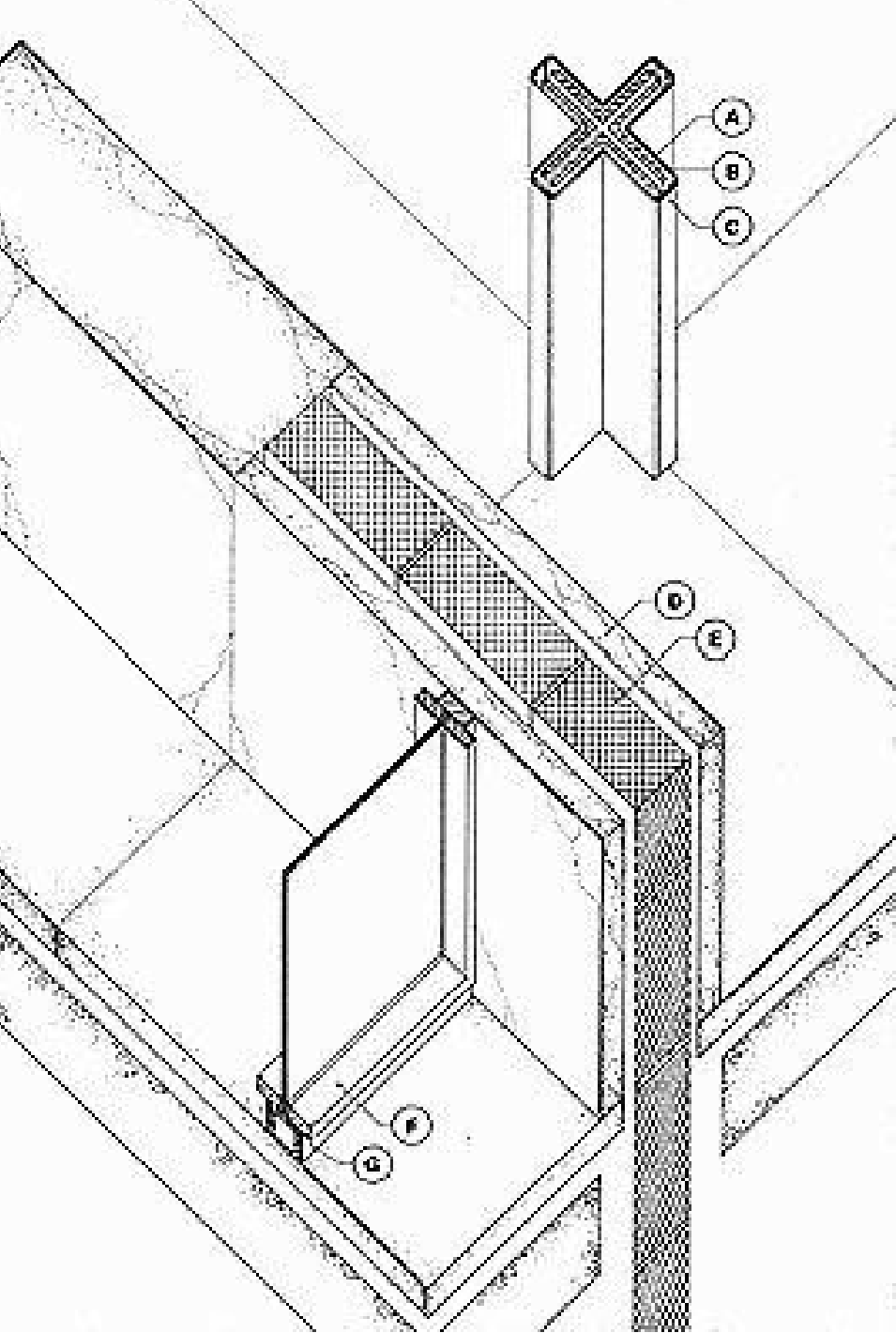


PABELLON DE BARCELONA

MIES VAN DER ROHE

1929

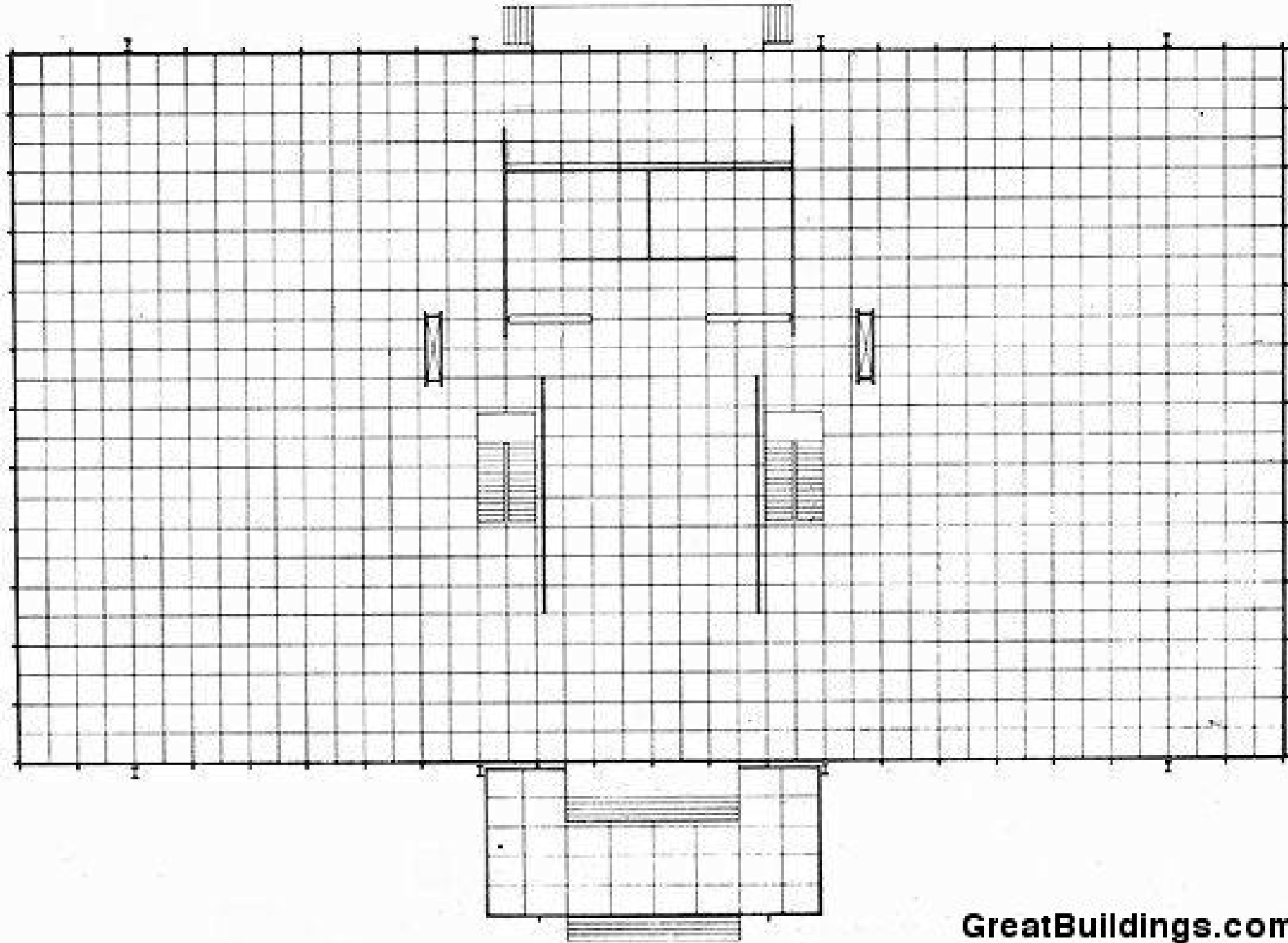


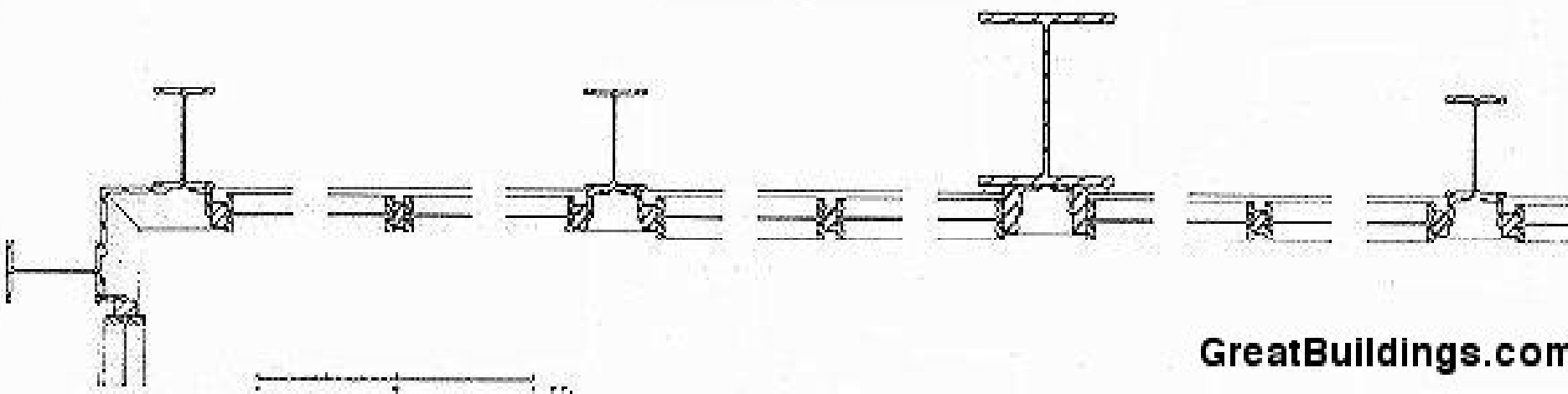


- A Chrome-plated sheet-metal column cover.
- B Structural column: four rolled steel angles bolted together.
- C Chrome-plated sheet-metal cover, attached with machine screws (a rare example of exposed fasteners in Mies's work).
- D Marble facing. The marble is made as thin as possible to reduce expense. Only the end pieces are solid, so the entire wall appears monolithic.
- E Brick or concrete masonry-core wall.
- F Bronze glass stop, attached to base with machine screws.
- G Window-frame base, fabricated from two structural steel angles which are then clad with bronze sheets.

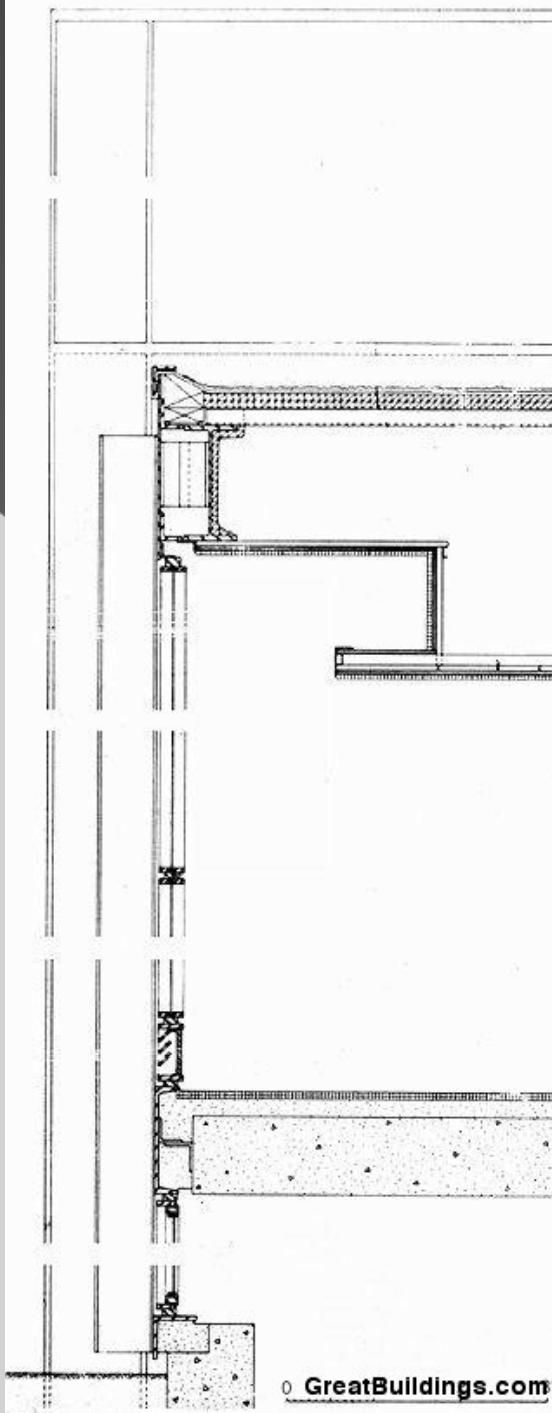


CROWN HALL
MIES VAN DER ROHE
1956





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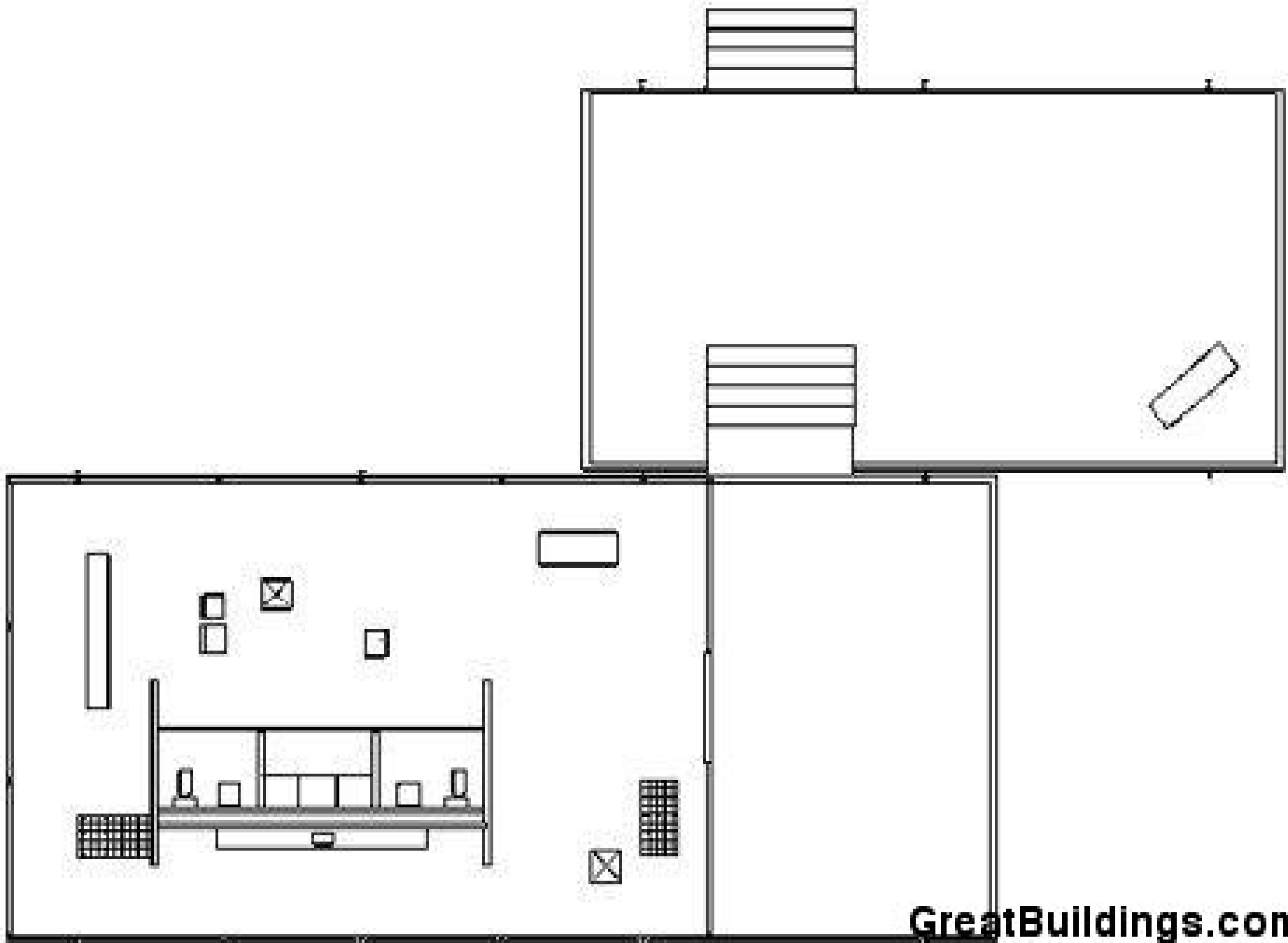


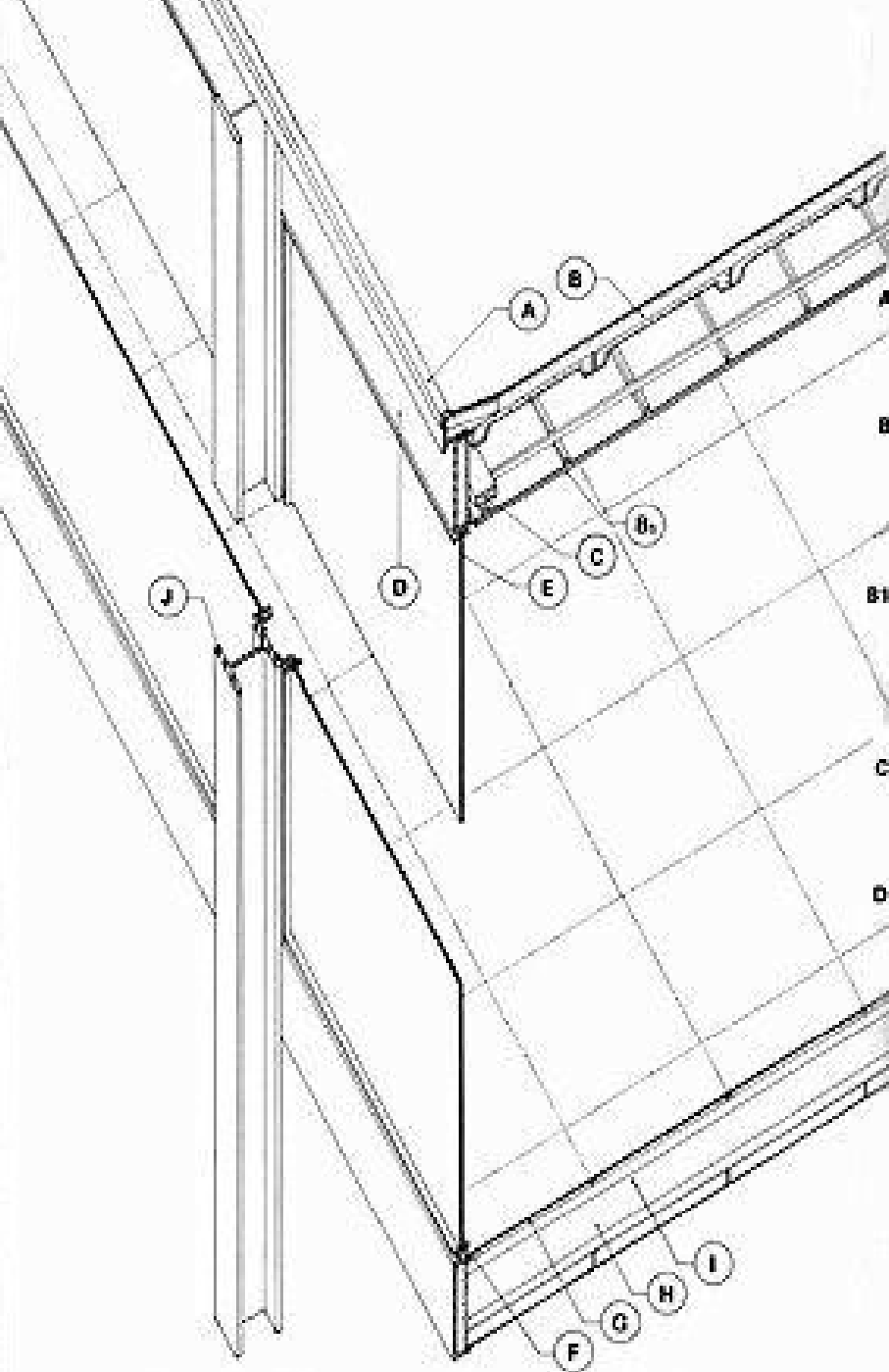


FRANSWORTH HOUSE

MIES VAN DER ROHE

1946





A Steel coping with lead flashing. As in the Lange house, this piece is made from a rolled steel section.

B Roof construction: built-up roof on foam glass insulation on precast plans supported by steel beams (not shown).

C Wood 2 × 4. This provides an attachment for the plaster ceiling at its edge.

D 15"-deep steel channel backed with insulation. This is an unusually deep section for a channel; a wide flange section would have been much easier to obtain, but Mies wanted a flat surface on the exterior.

E 1/2" plate glass.

F Window frame fabricated from simple 1 1/2" × 1/2" and 1" × 2" steel rectangles.

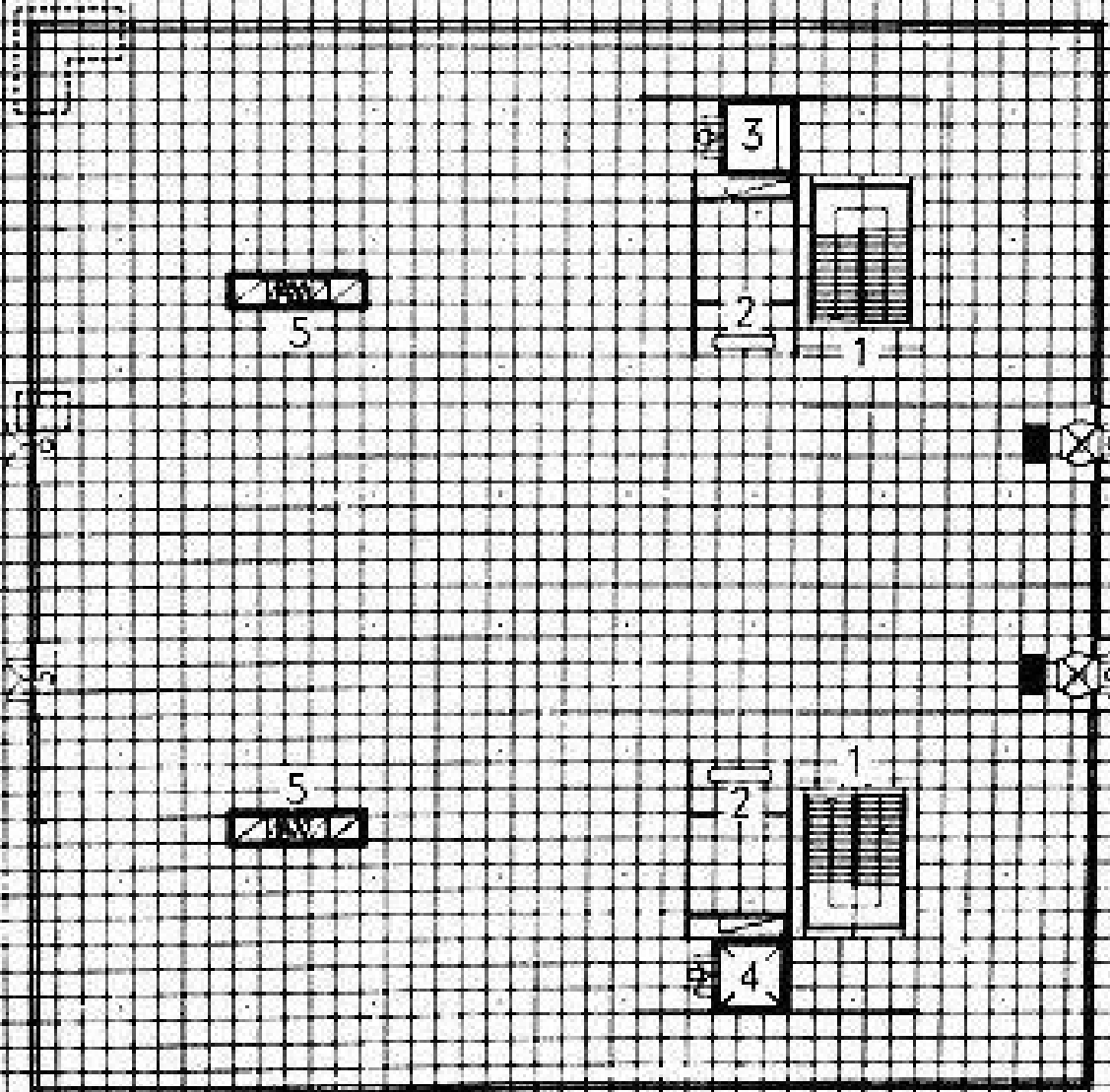
G Travertine floor set in bed of grout.

H Floor construction. The bottom layer is precast concrete planks. A layer of insulation is placed on top; and then covered with poured-in-place concrete.

I Radiant heating coils. There is little or no space for ductwork in the floor or the ceiling. Radiant heating provided a convenient solution, since it requires only pipes.

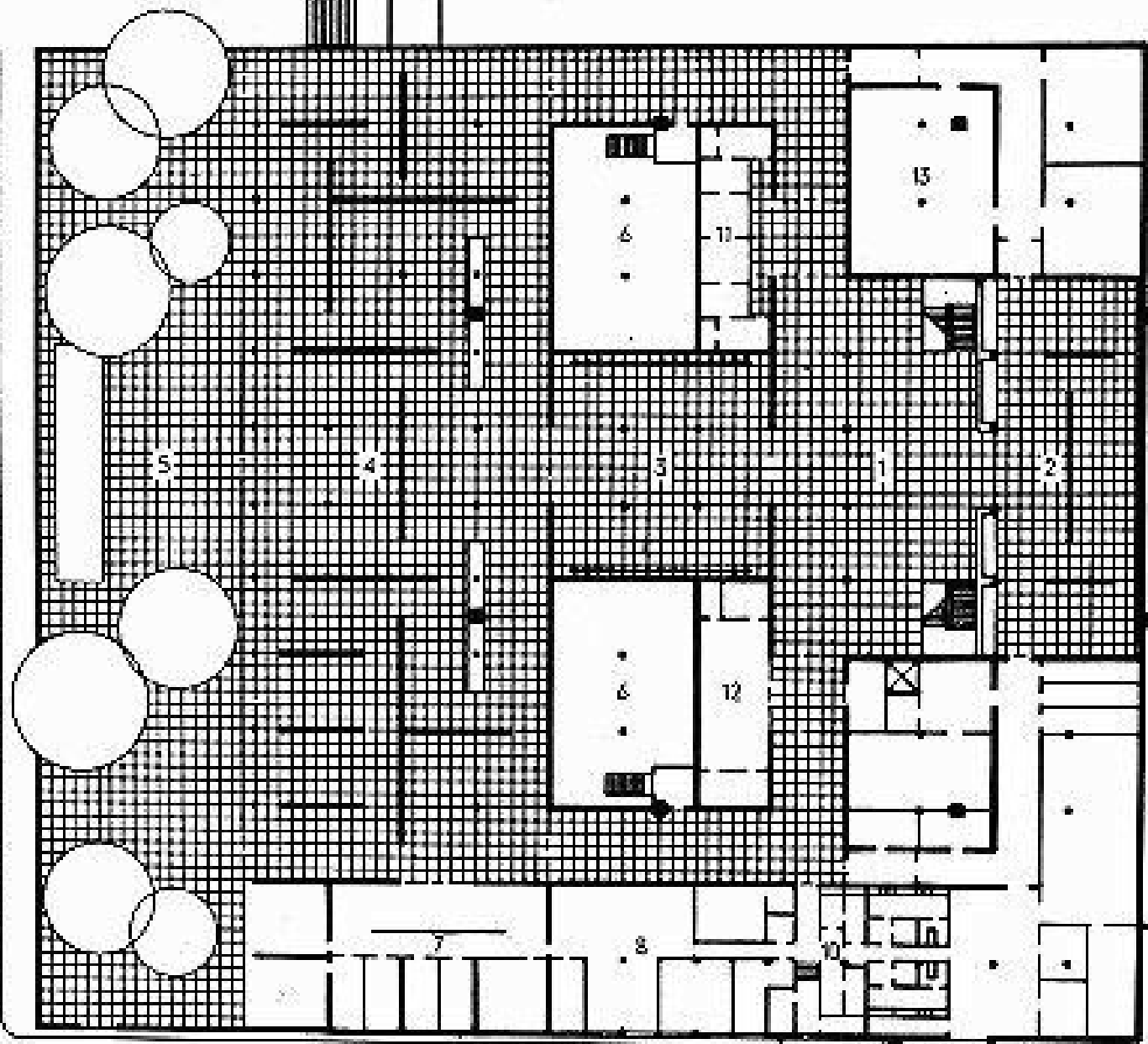
J Steel column. Unlike the Barcelona column, the structural column here is monolithic and exposed. It is joined to the steel channel by plug welds on the concealed side, so no means of fastening are visible.







30m

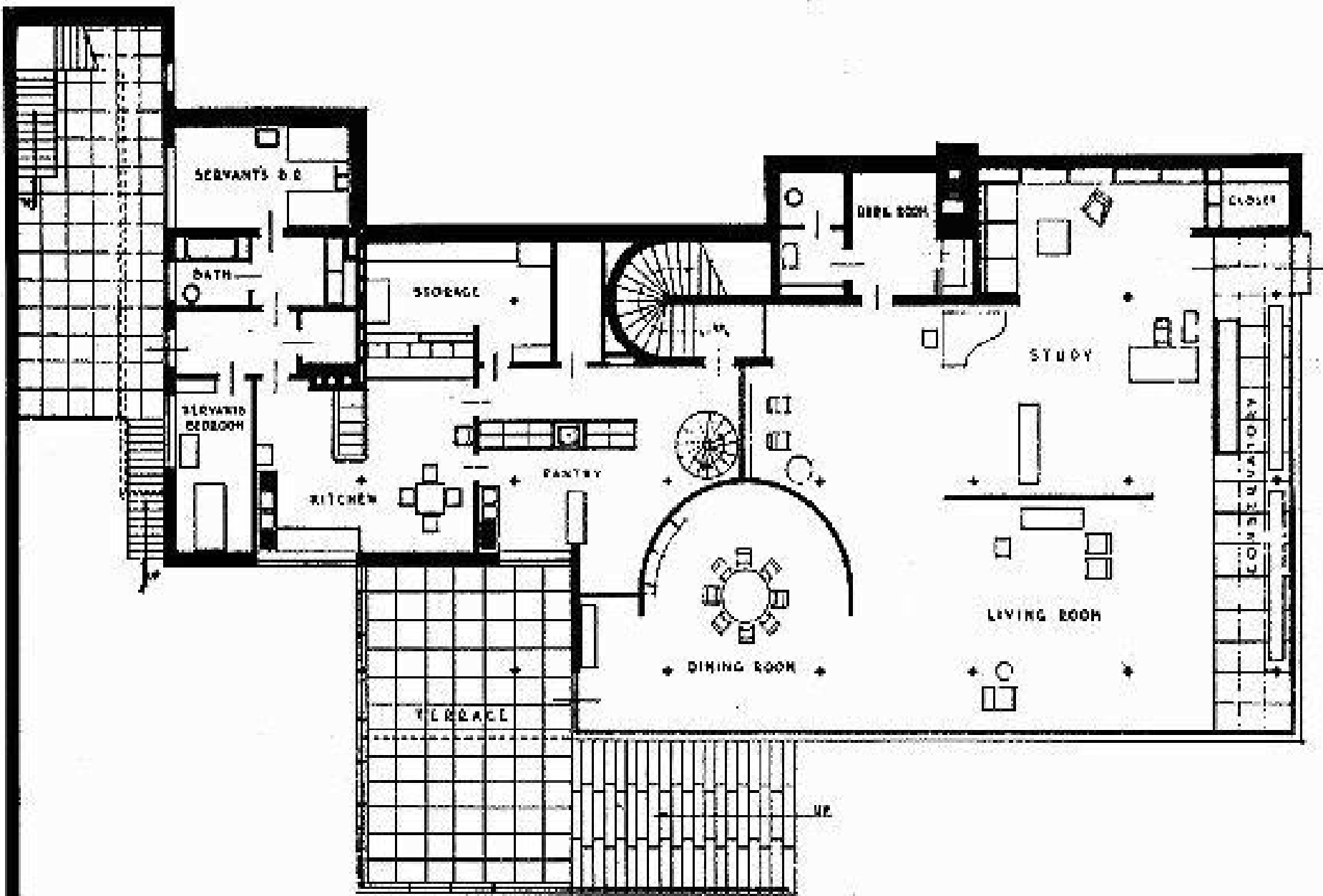




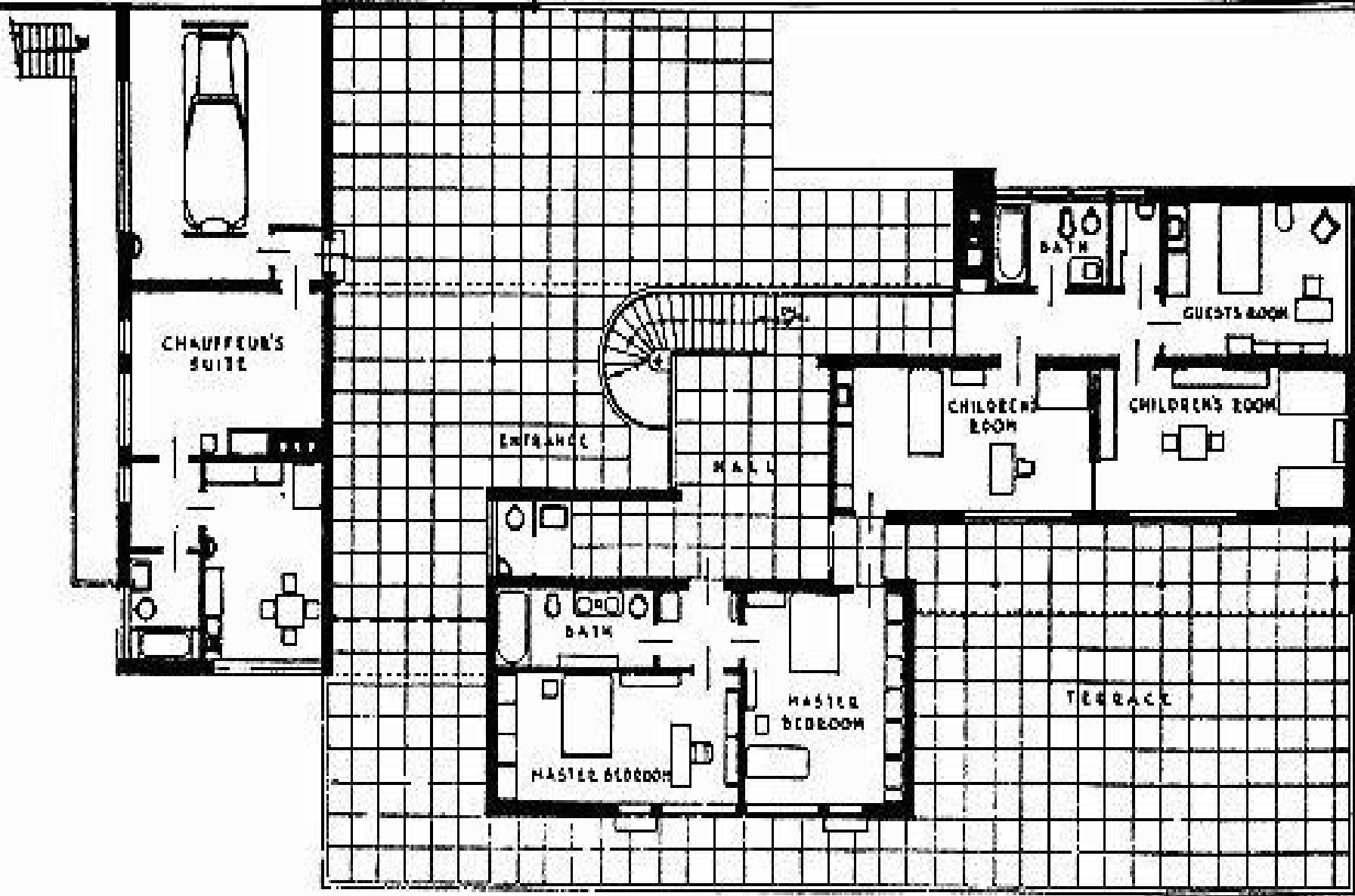
TUGENDHAT HOUSE

MIES VAN DER ROHE

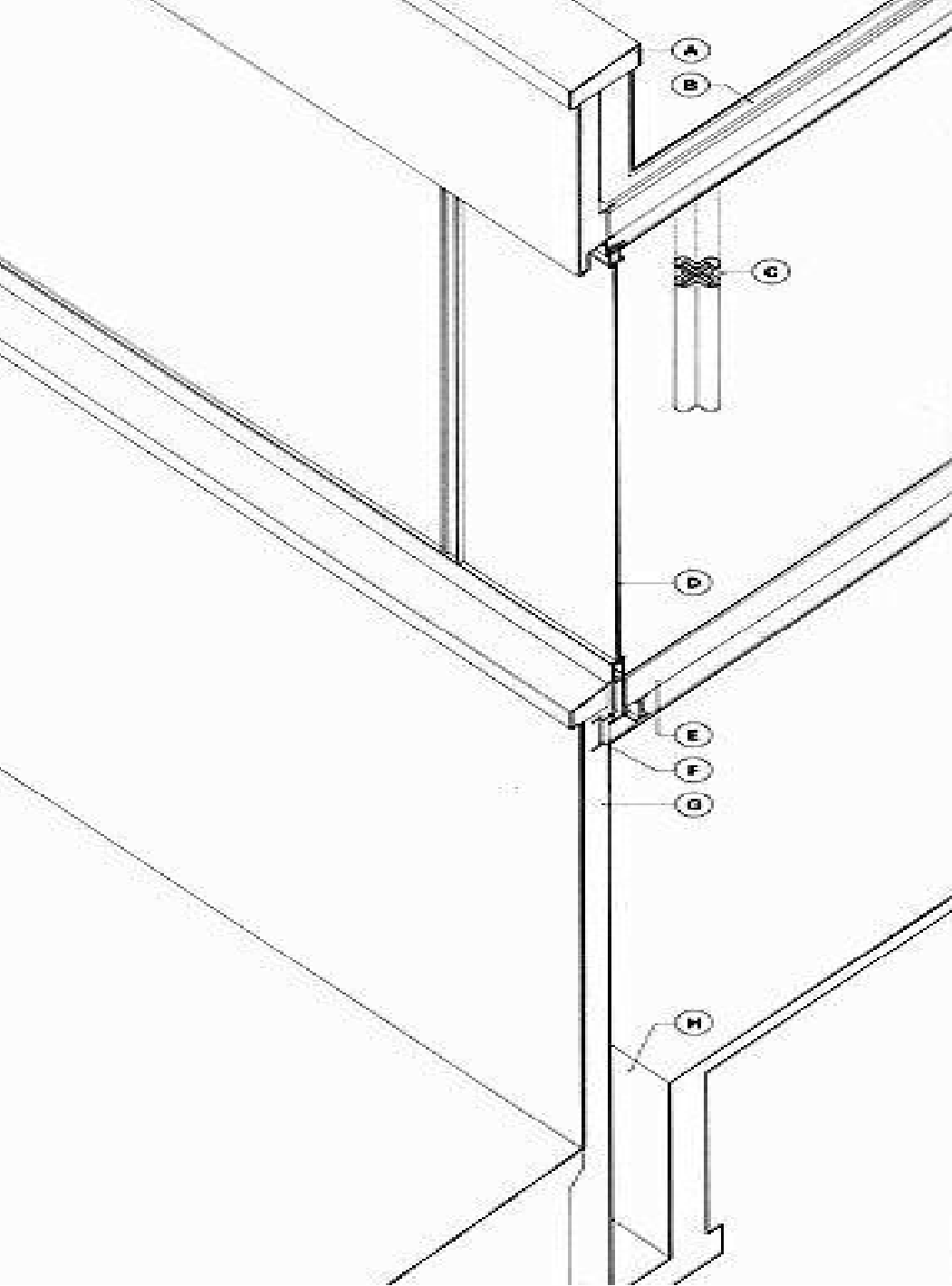
1930




GROUND FLOOR PLAN



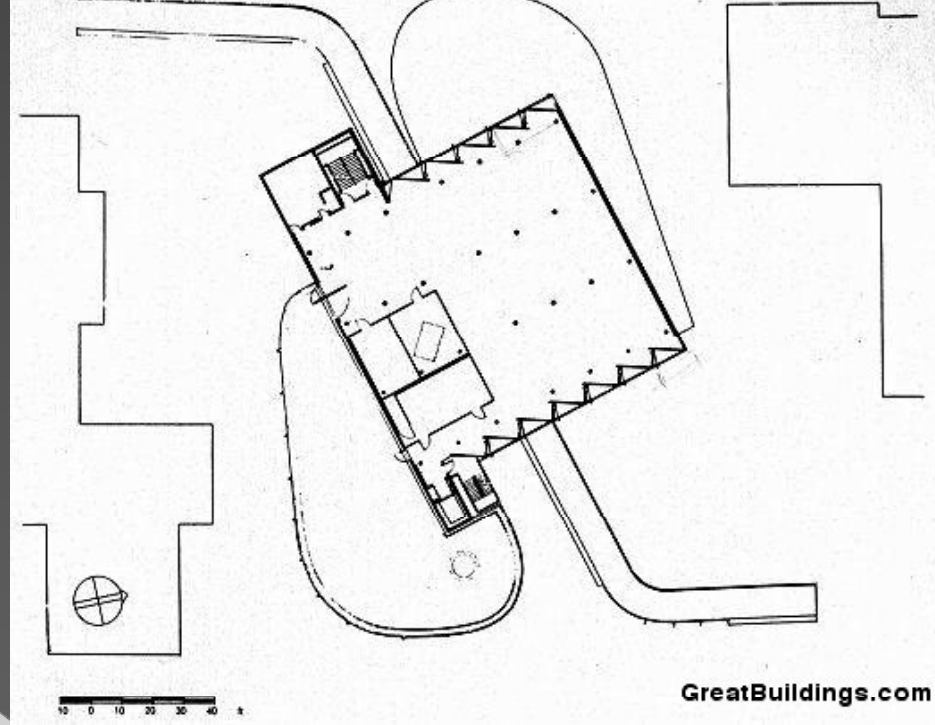
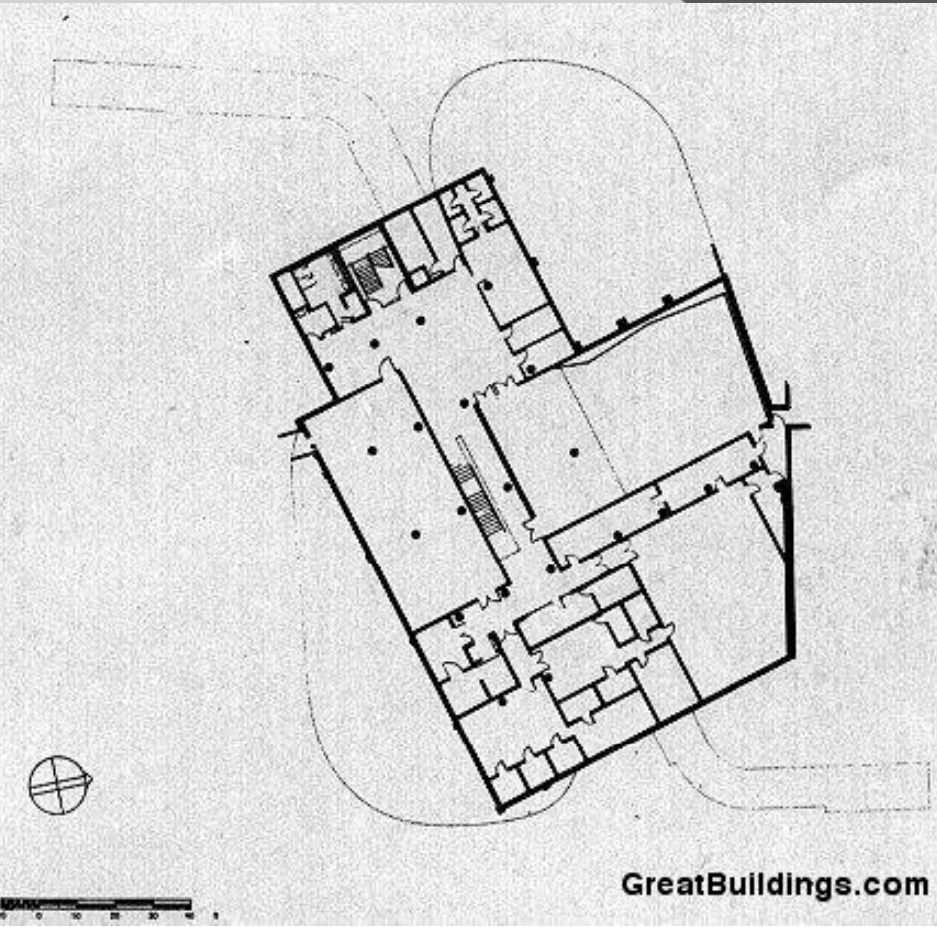
FIRST FLOOR PLAN



- A** Parapet of masonry faced with stucco.
- B** Floor and deck construction: hollow tiles (probably structural clay tiles), covered with cinder concrete and torfoleum insulation and supported by steel beams. Deck is covered with asphalt and paving slabs of yellow travertine.
- C** Steel column: four steel angles bolted together, with chrome-plated bronze cover.
- D** Retractable window. The large windows are bronze, the smaller ones steel.
- E** Floor construction: similar to floor above, with linoleum finish.
- F** Steel channel.
- G** Wall construction: brick walls, with cement plaster on exterior and a layer of torfoleum insulation (compressed peat) covered with plaster on interior.
- H** Foundation, with pocket to receive retractable window.



CARPENTER CENTER
LE CORBUSIER
1964

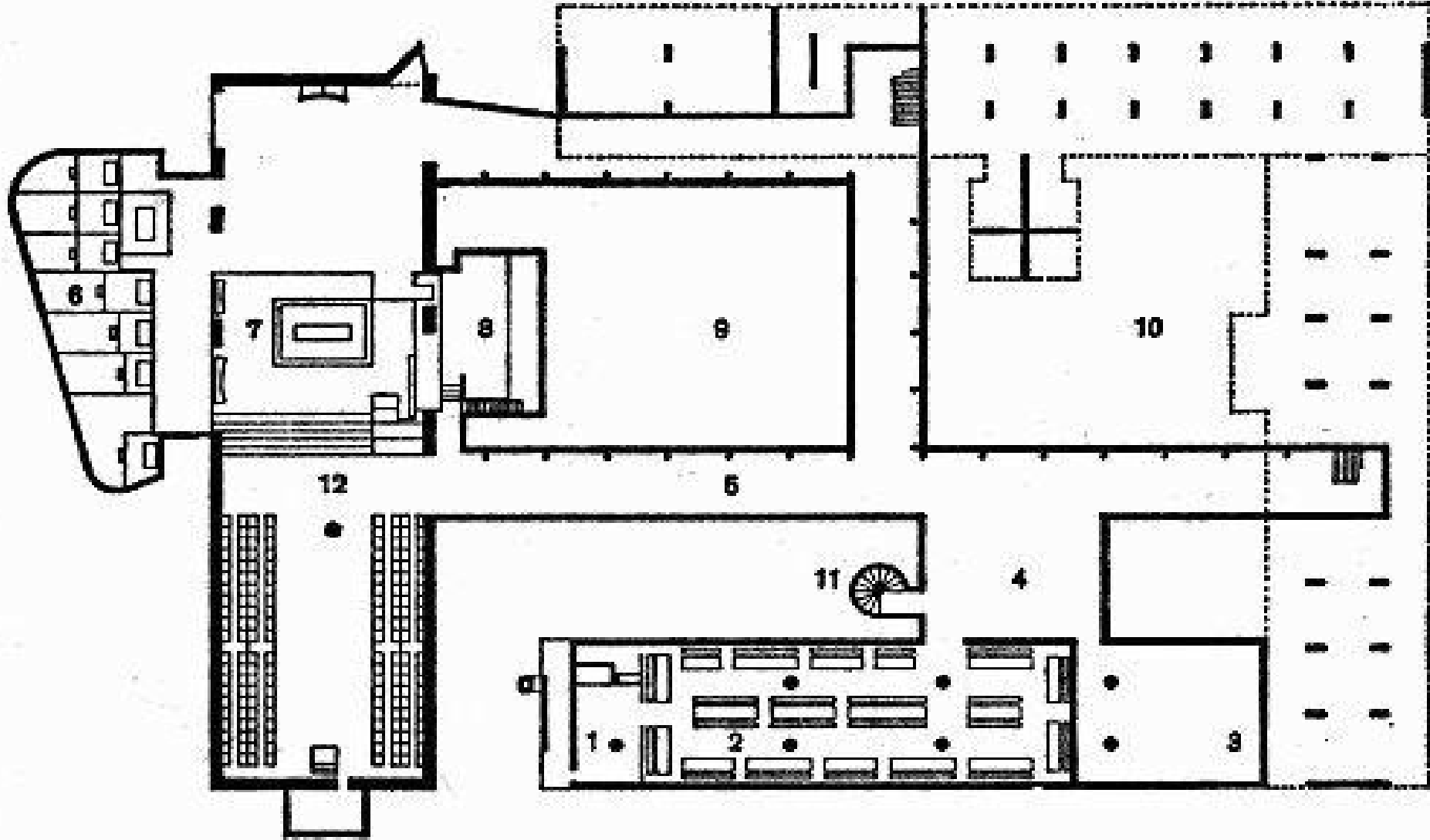




CONVENT OF LA TOURETTE

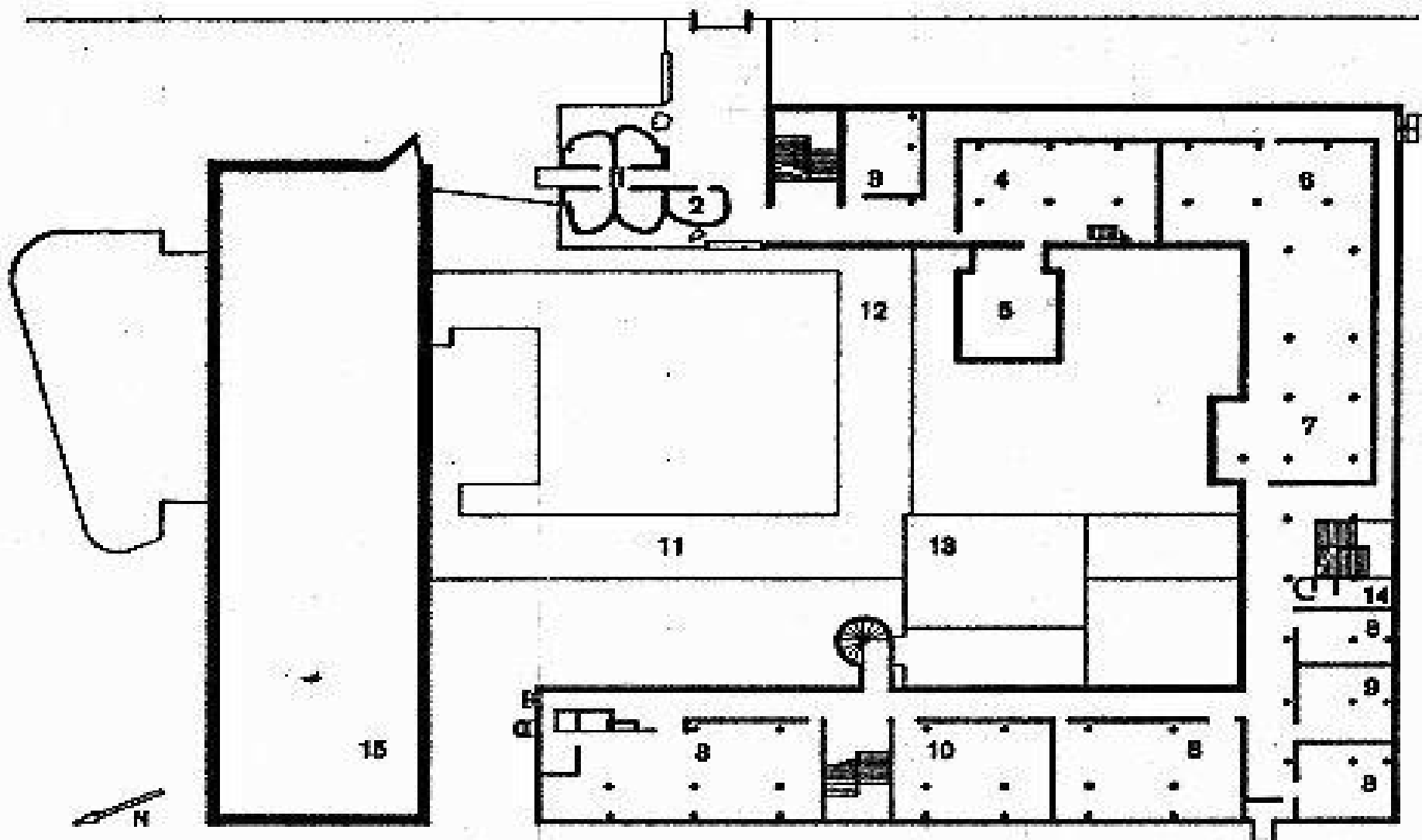
LE CORBUSIER

1960



Refectory floor

1 Pantry, 2 Refectory, 3 Chapter-room, 4 Atrium, 5 Cloister, 6 Lower church, 7 High altar, 8 Sacristy, 9, 10 Courtyard, 11 Spiral staircase, 12 Church

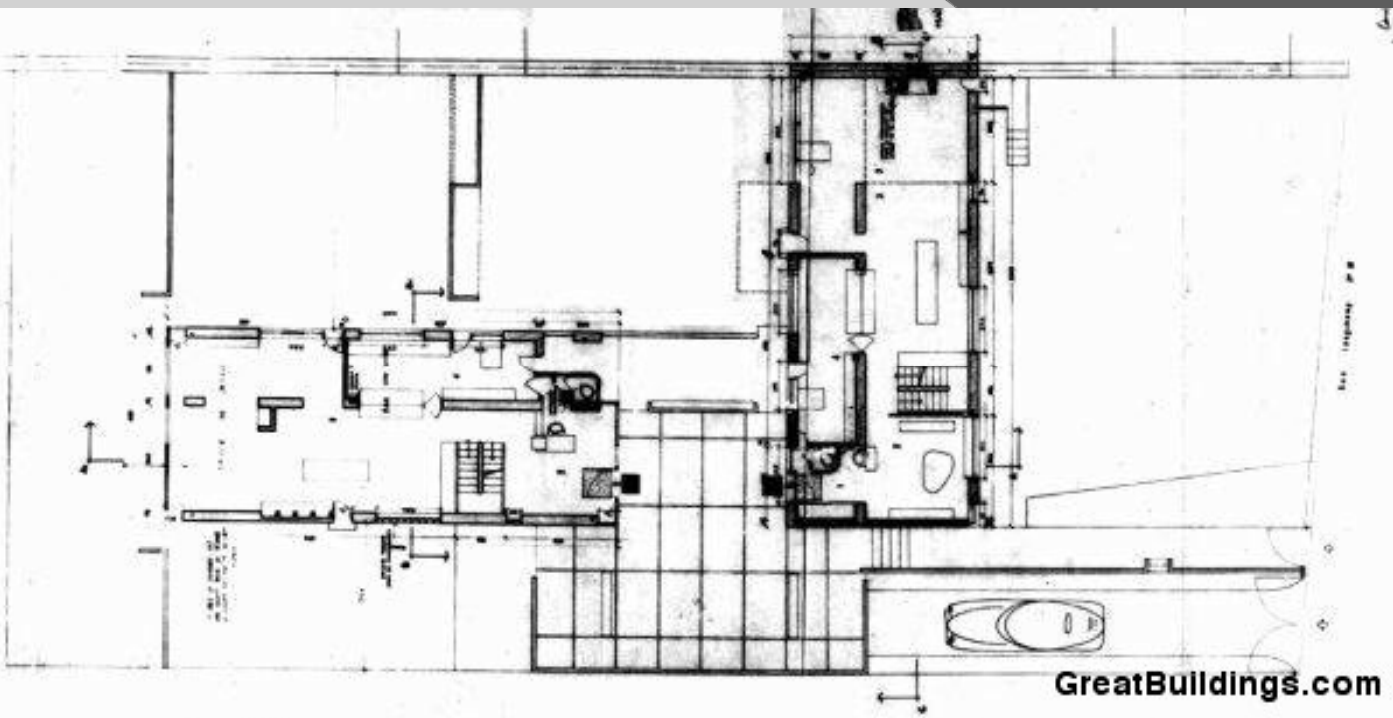
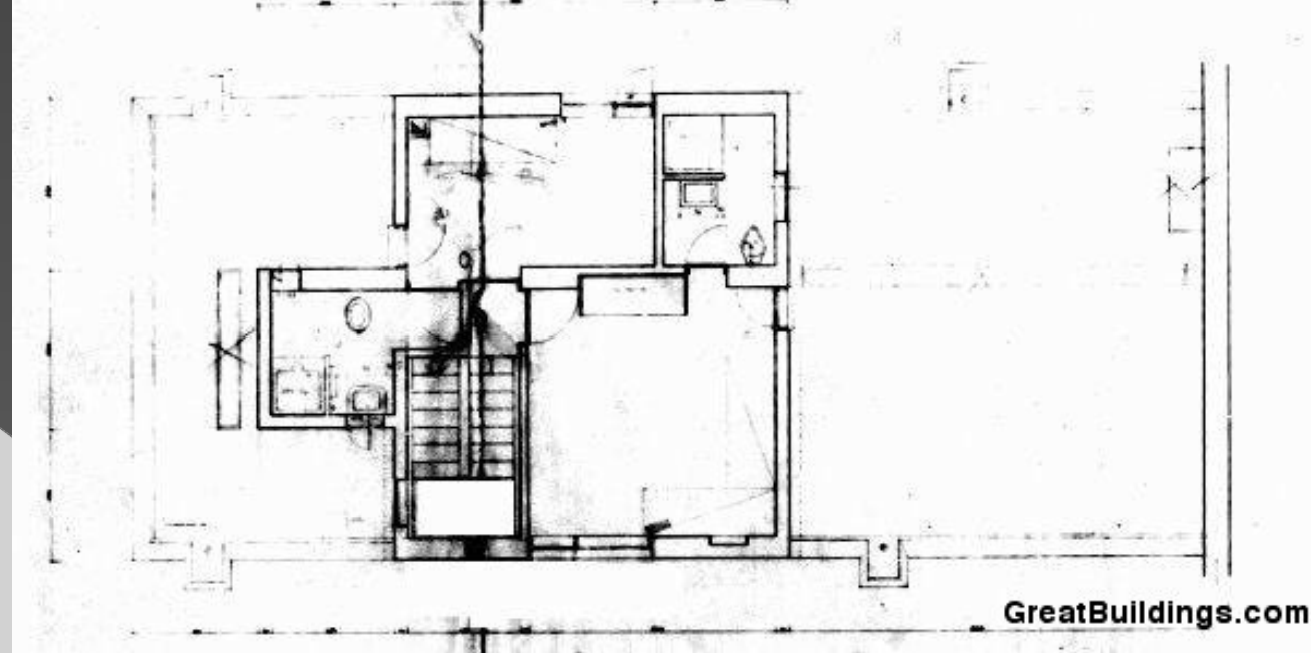


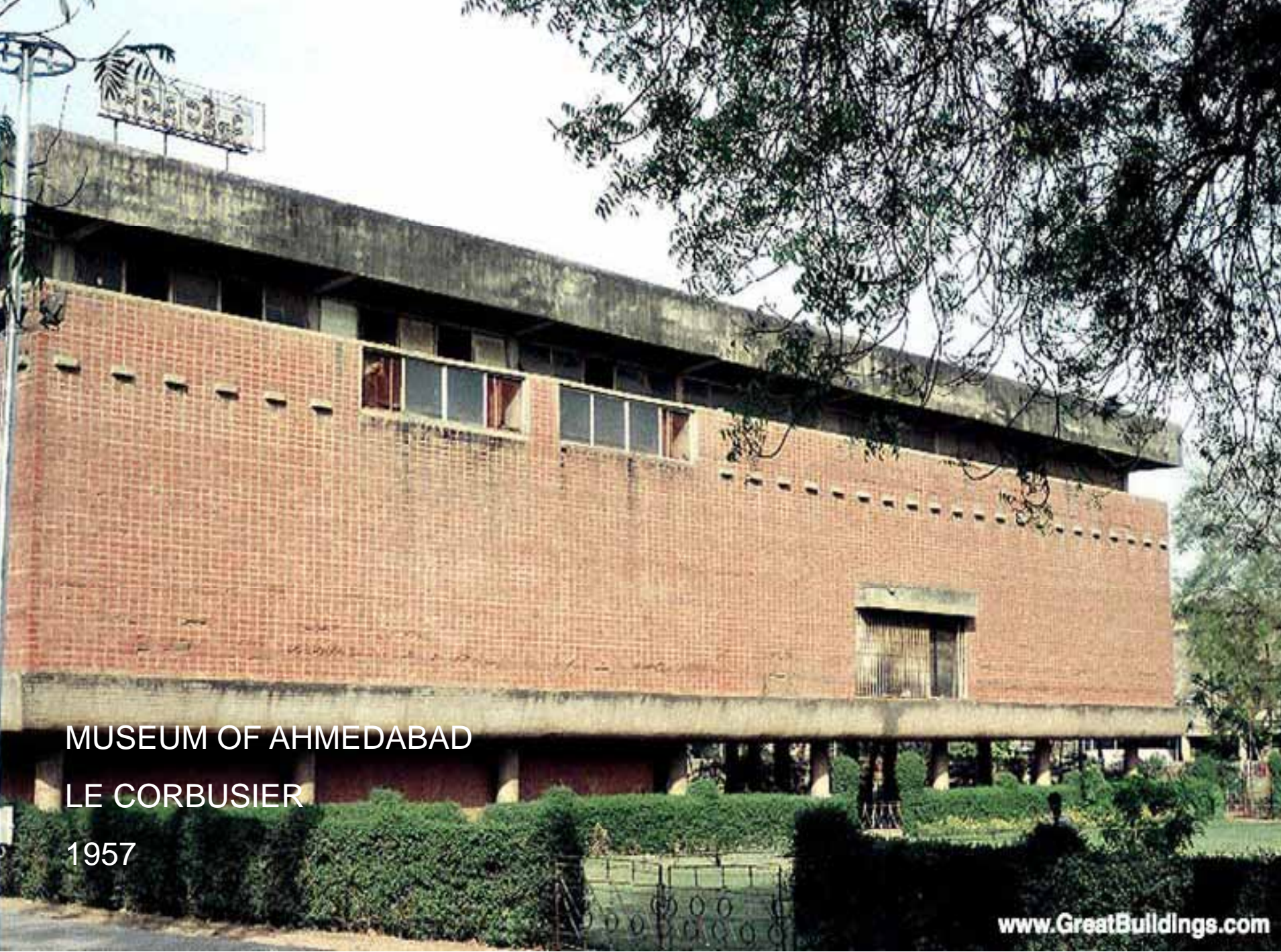
Entrance floor

1 Conversation cells, 2 Porter, 3 Room for the lay-brothers, 4 Common-room for the student brothers, 5 Oratory, 6 Reading-room, 7 Library, 8 Lecture rooms, 9 Common-room for the student brothers, 10 Common-room for the fathers, 11, 12 Cloister, 13 Atrium, 14 WC, 15 Church



MAISONS JAUL
LE CORBUSIER
1956

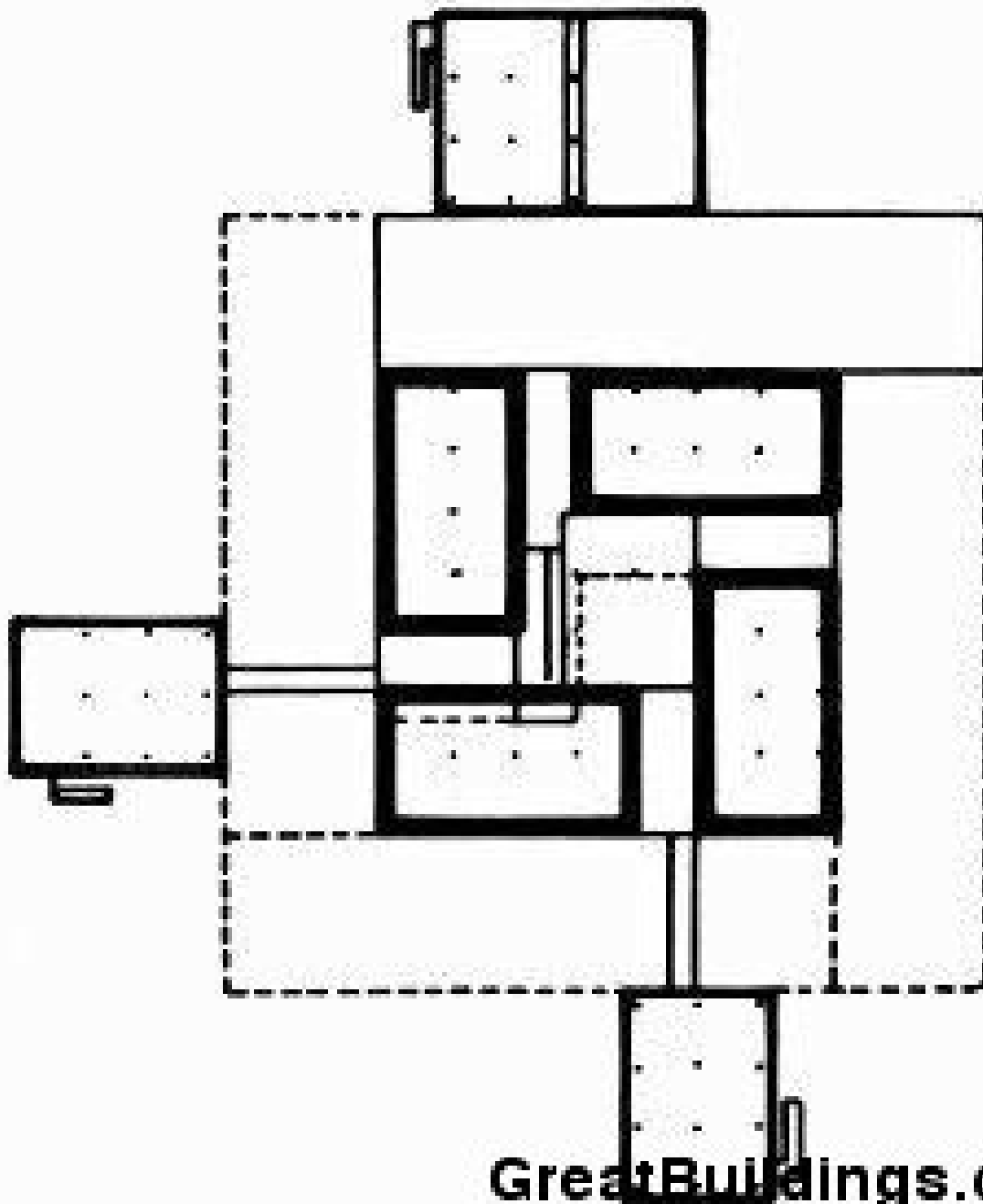


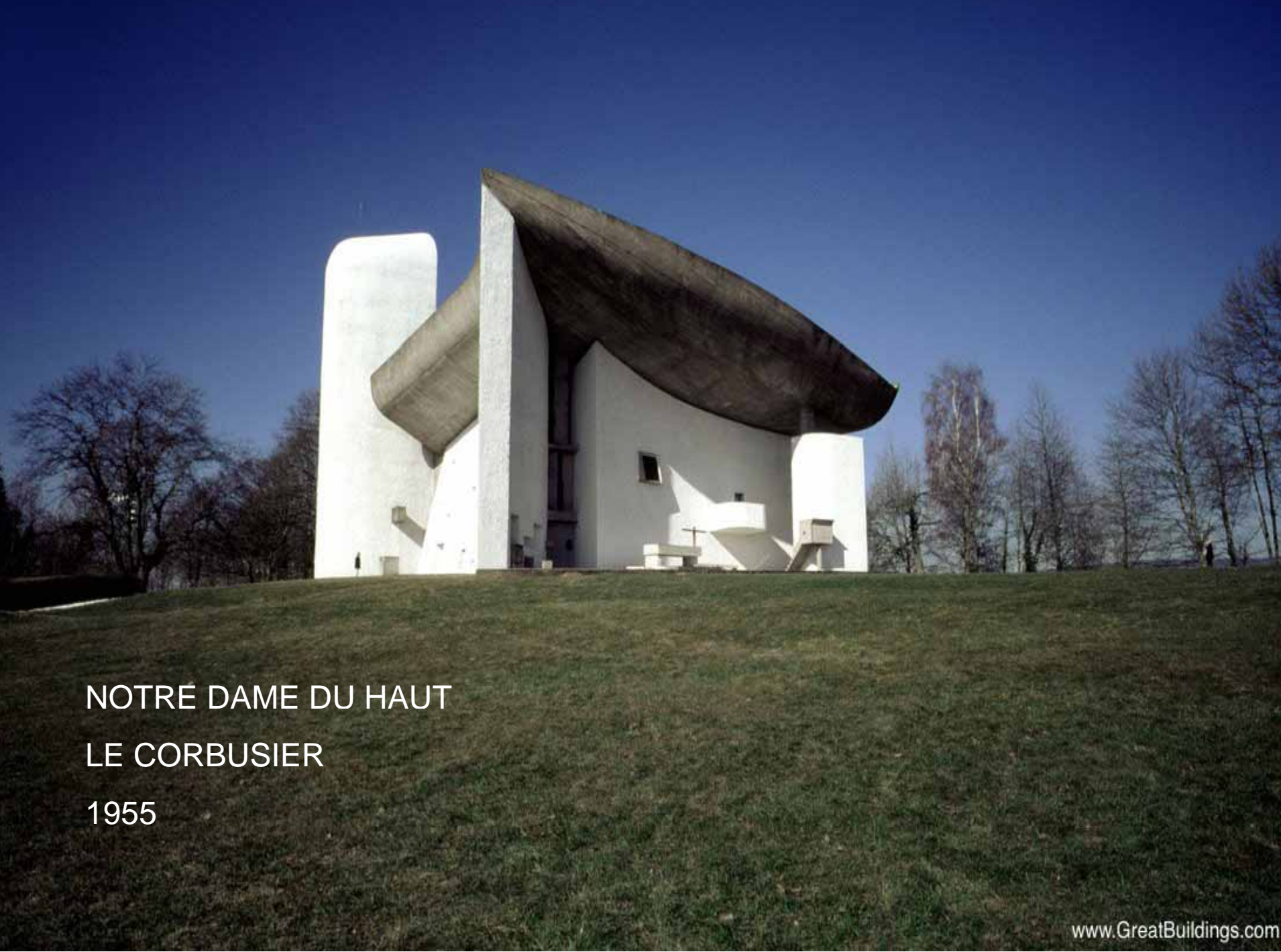


MUSEUM OF AHMEDABAD

LE CORBUSIER

1957

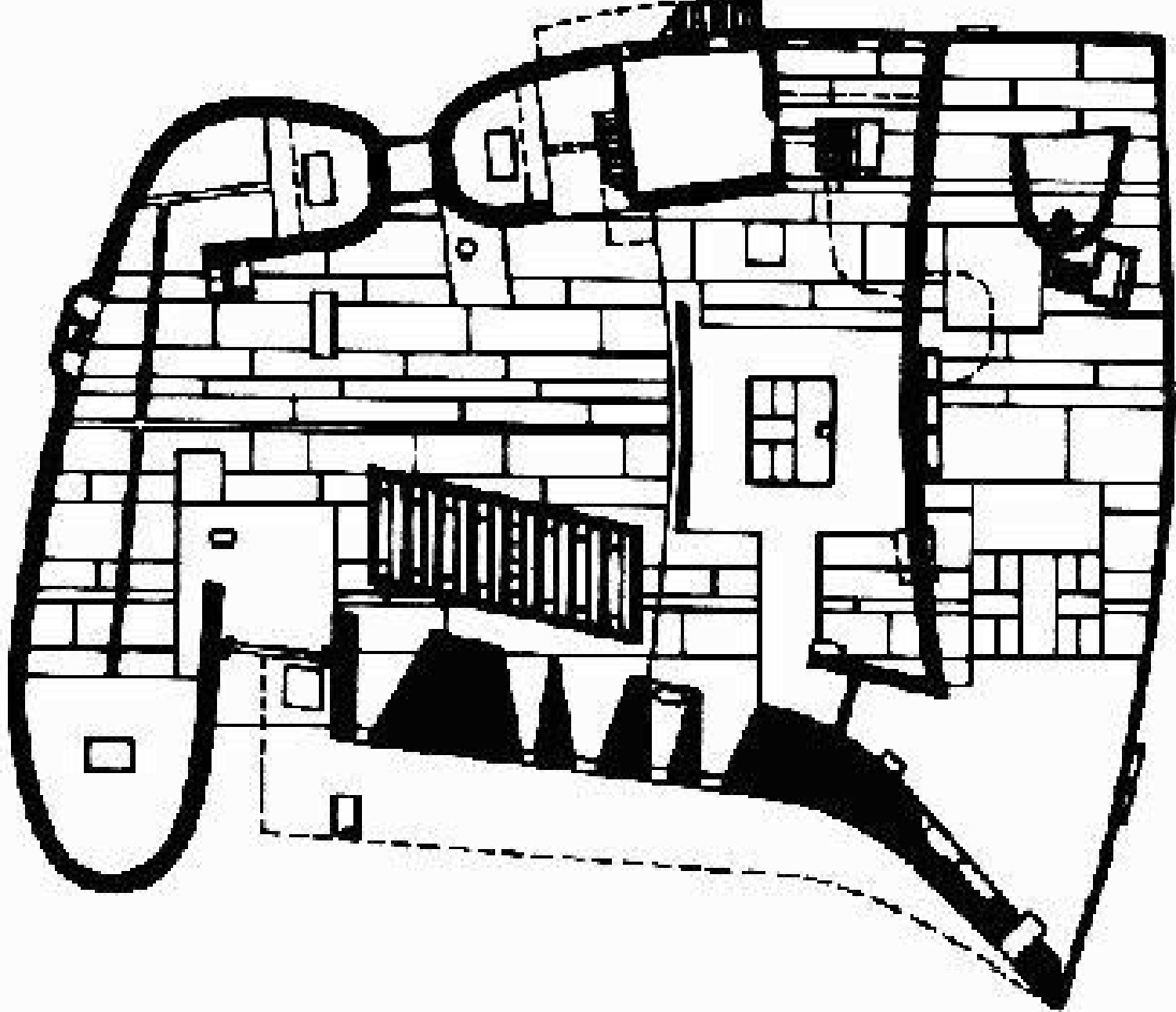




NOTRÉ DAME DU HAUT

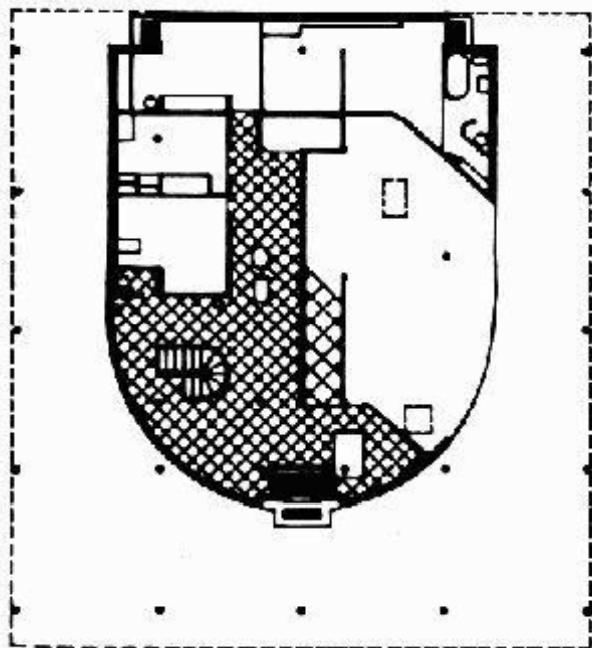
LE CORBUSIER

1955

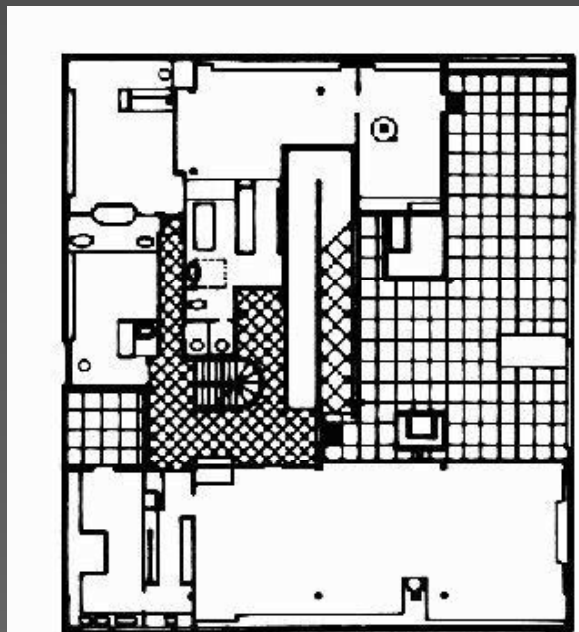




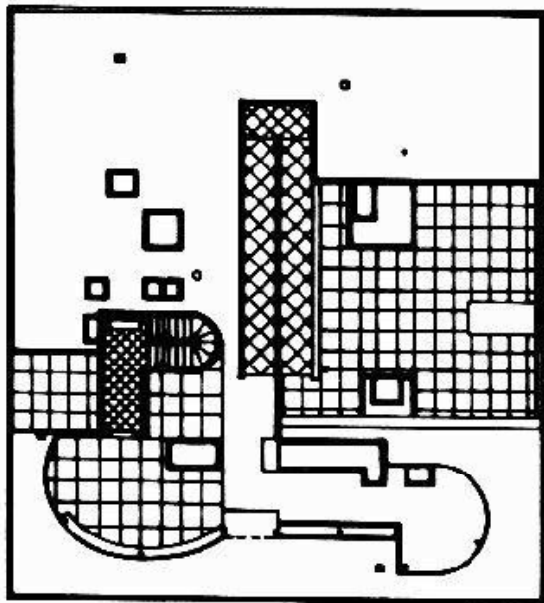
VILLA SAVOYE
LE CORBUSIER
1929



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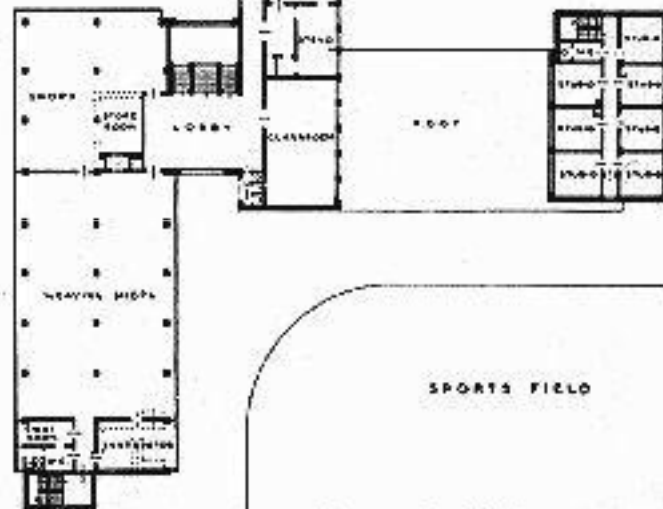


BAUHAUS

BAUHAUS
WALTER GROPIUS
1925



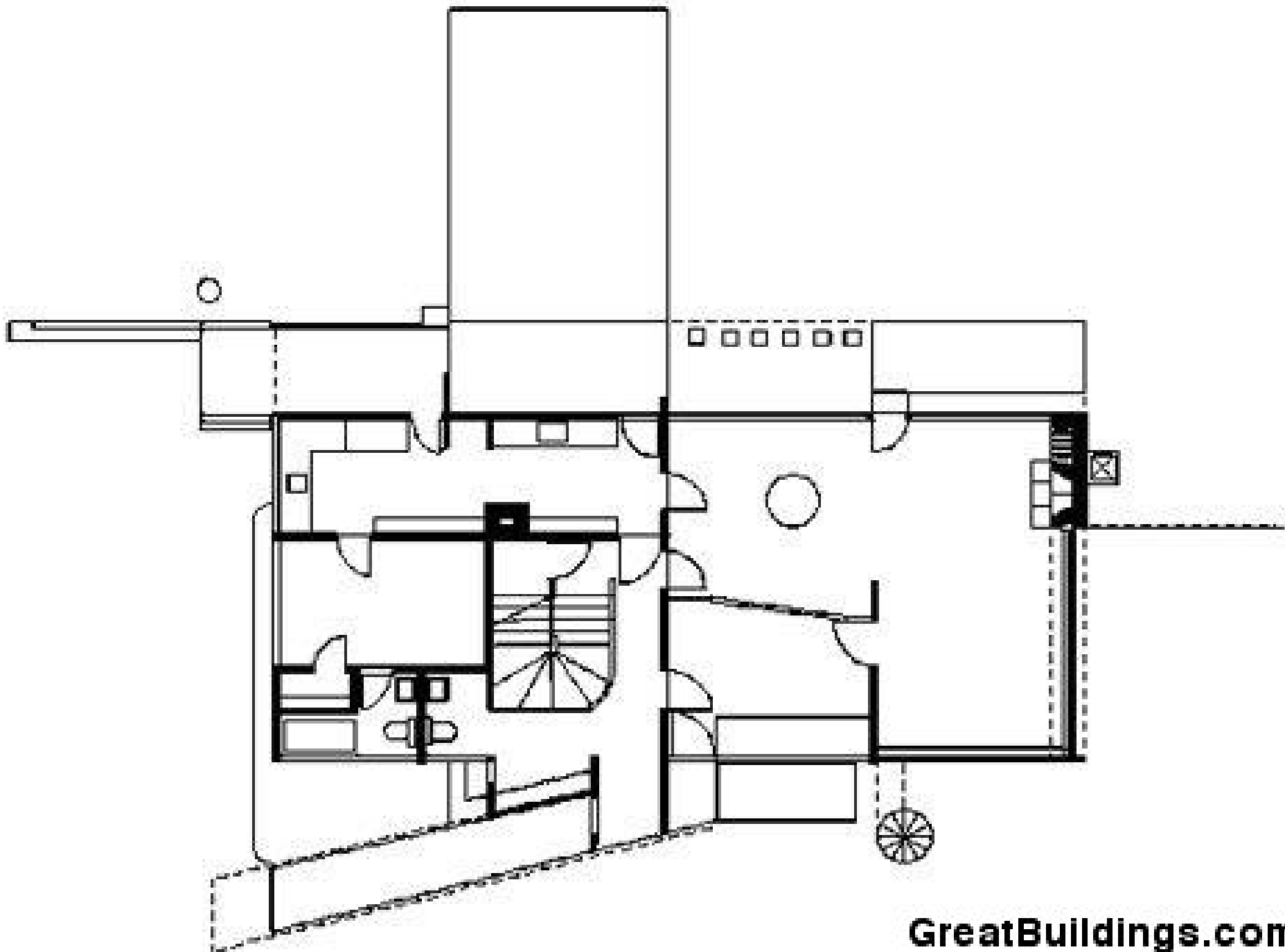
GreatBuildings.com

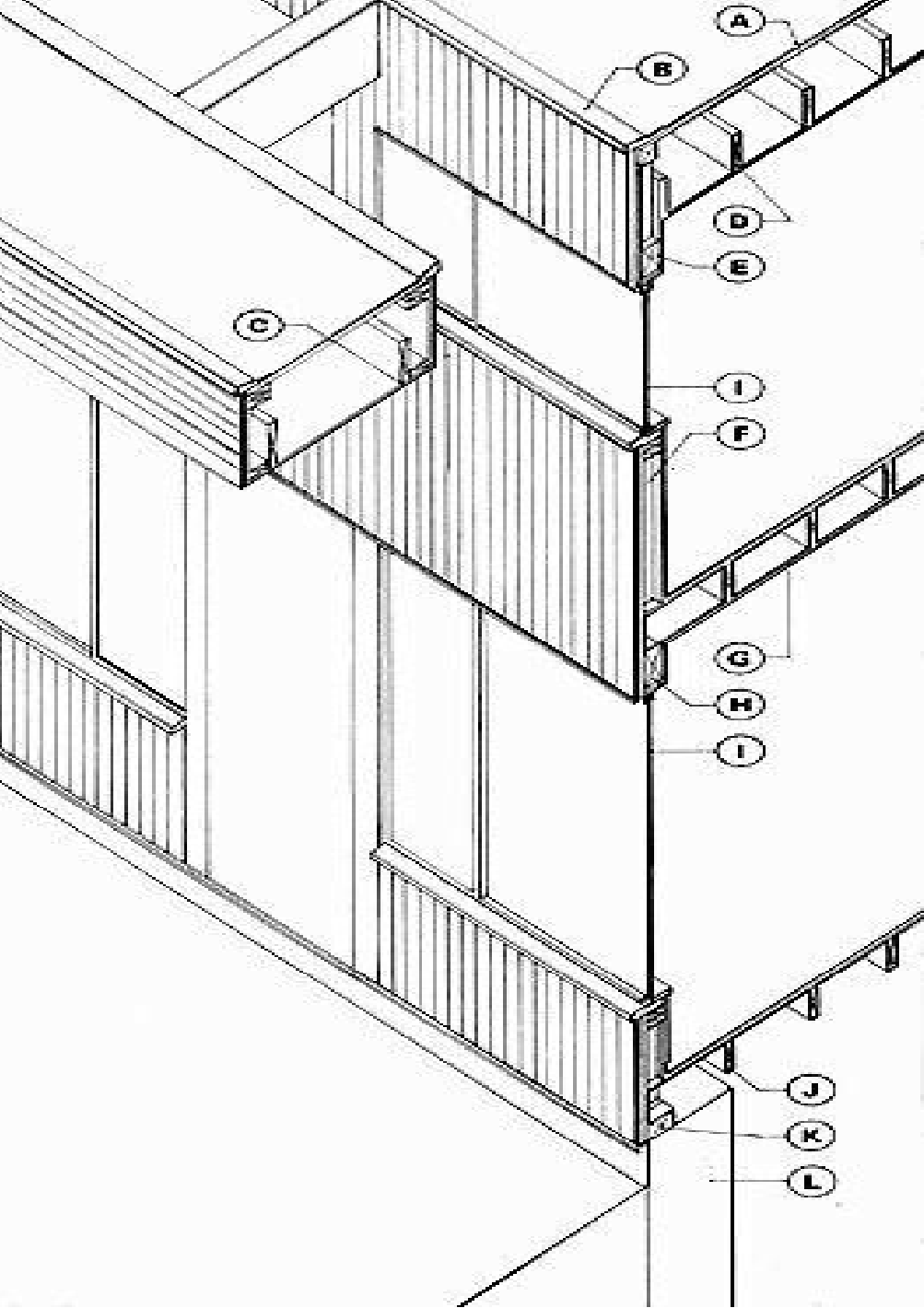


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GROPIUS HOUSE
WALTER GROPIUS
1937





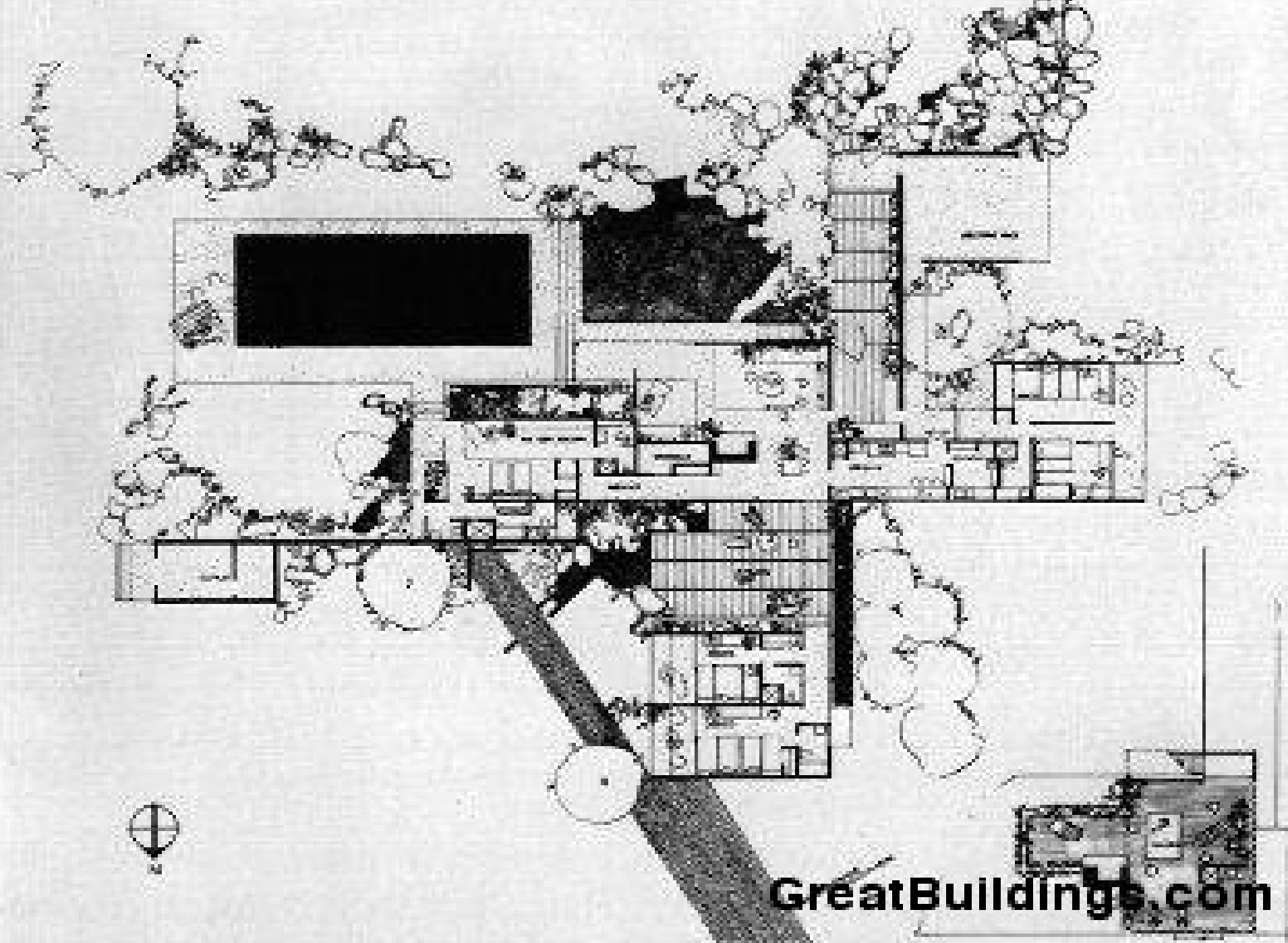
- A** Roof construction: five-ply built-up roof with gravel on $\frac{3}{4}$ " boarding, sloped $\frac{1}{4}$ " per foot.
- B** Gravel stop: 16-ounce lead-coated copper with 2 x 4 wood nailer. This covers the joint between the built-up roof and the wood siding while holding down the edge of the roofing.
- C** Vermiculite plaster soffit (later replaced with cement plaster).
- D** 2 x 10 fir or spruce roof joists, 16" on center.
- E** 4 x 8 fir or spruce beam supporting wood studs over window opening. (This is not a load-bearing wall, as the joists span between the perpendicular cross-walls.)
- F** Wall construction: vertical tongue-and-groove redwood siding with V joints; building paper; sheathing; 2 x 4 wood studs; plaster on metal lath for interior finish; 3" fiberglass insulation in voids.
- G** Floor construction: 2 x 10 joists, 16" on center; $\frac{3}{4}$ " wood subfloor, carpet floors and plaster ceilings.
- H** 4 x 8 fir or spruce beam.
- I** Steel casement window.
- J** Floor construction: 2 x 10 fir or spruce joists, 16" on center.
- K** 4 x 6 mudsill and termite shield.
- L** Fieldstone foundation.



KAUFMANN DESERT HOUSE

WALTER GROPIUS

1946

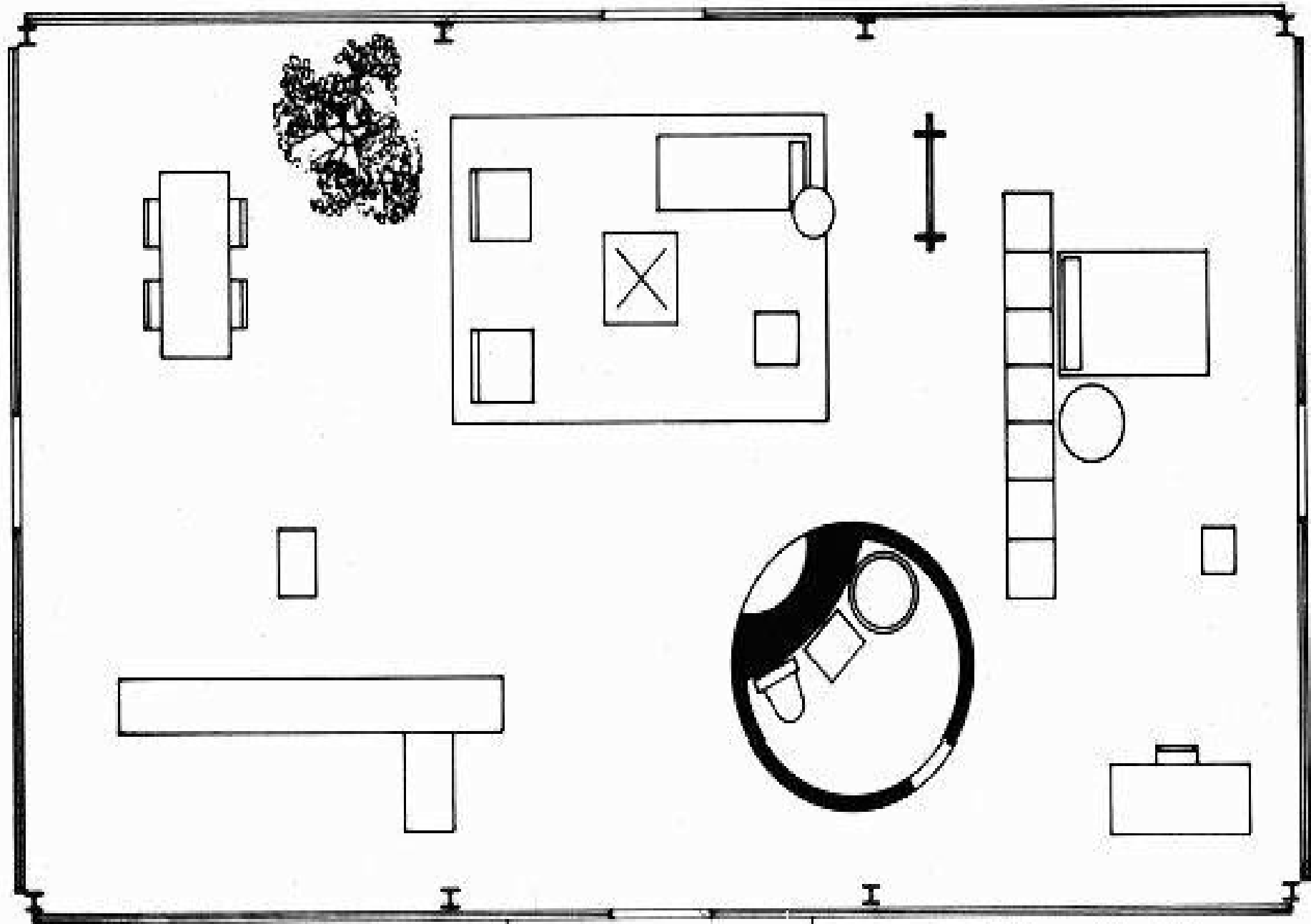




GLASS HOUSE

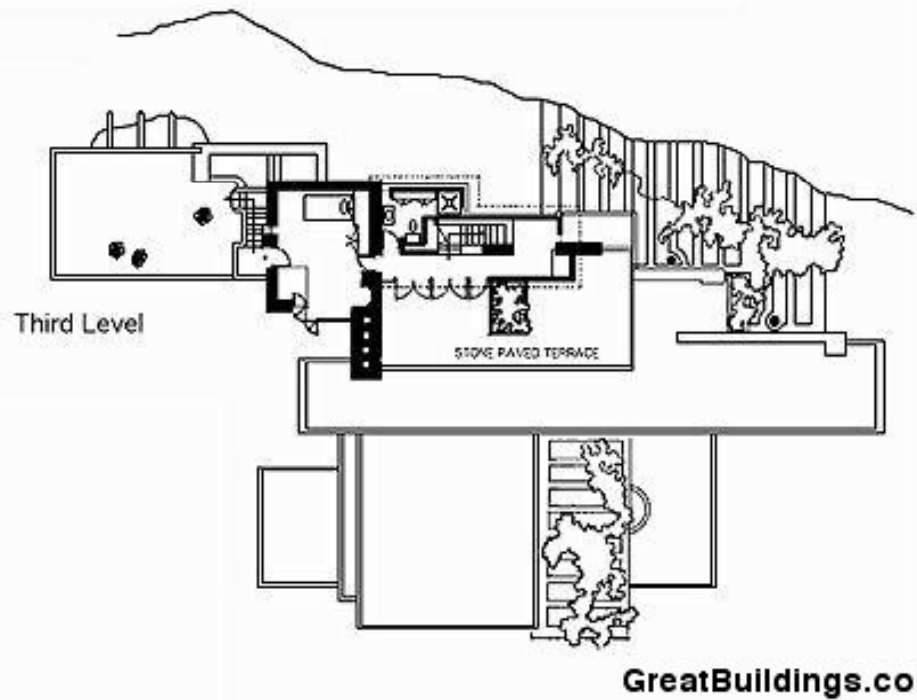
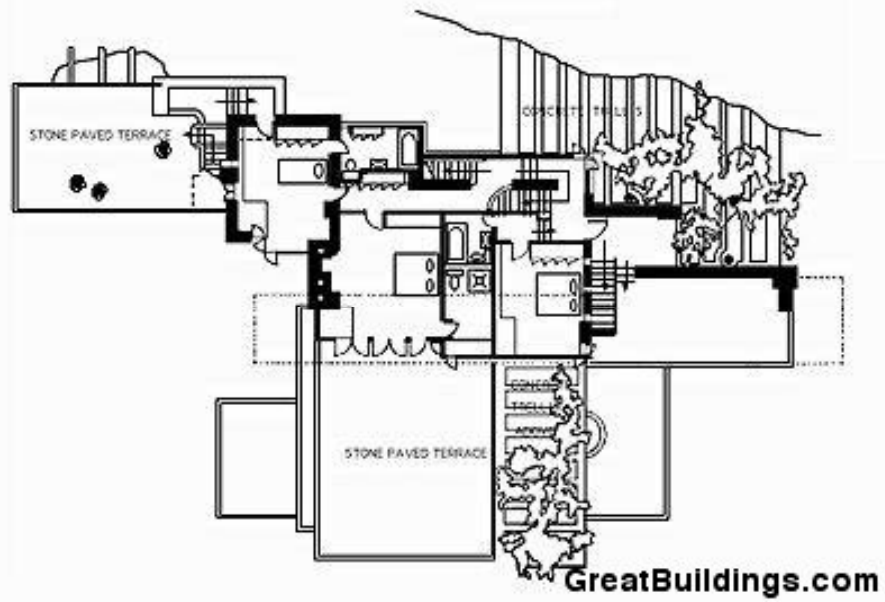
PHILIP JHONSON

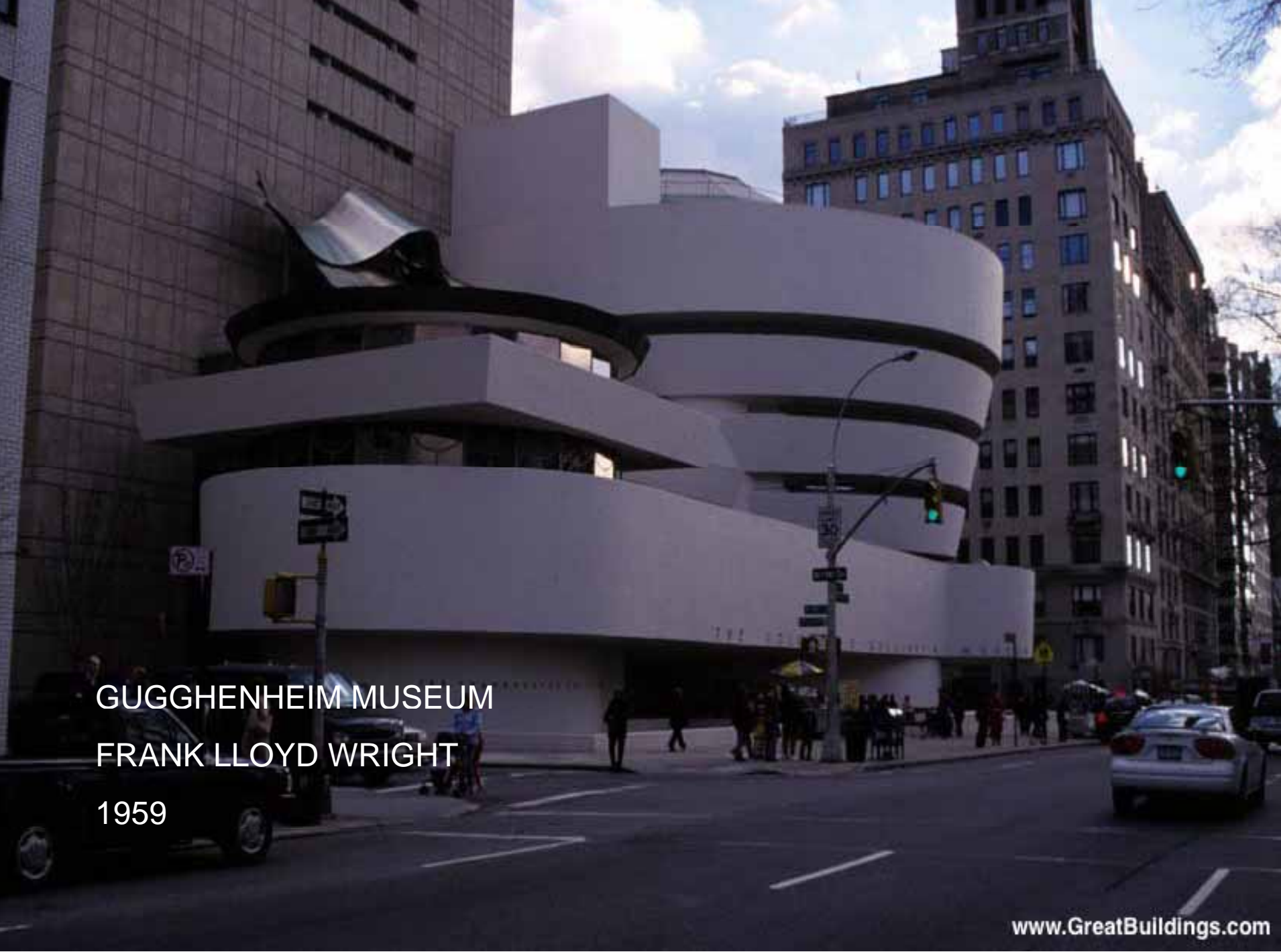
1949



The image shows Casa de la Cascada, a modernist house designed by Frank Lloyd Wright. The building is built into a cliffside, with its concrete and stone structure integrated with the natural rock formations. A waterfall flows over the rocks directly in front of the house. The surrounding area is lush with green trees and foliage. The text 'CASA DE LA CASCADA', 'FRANK LLOYD WRIGHT', and '1939' is overlaid on the bottom left of the image.

CASA DE LA CASCADA
FRANK LLOYD WRIGHT
1939



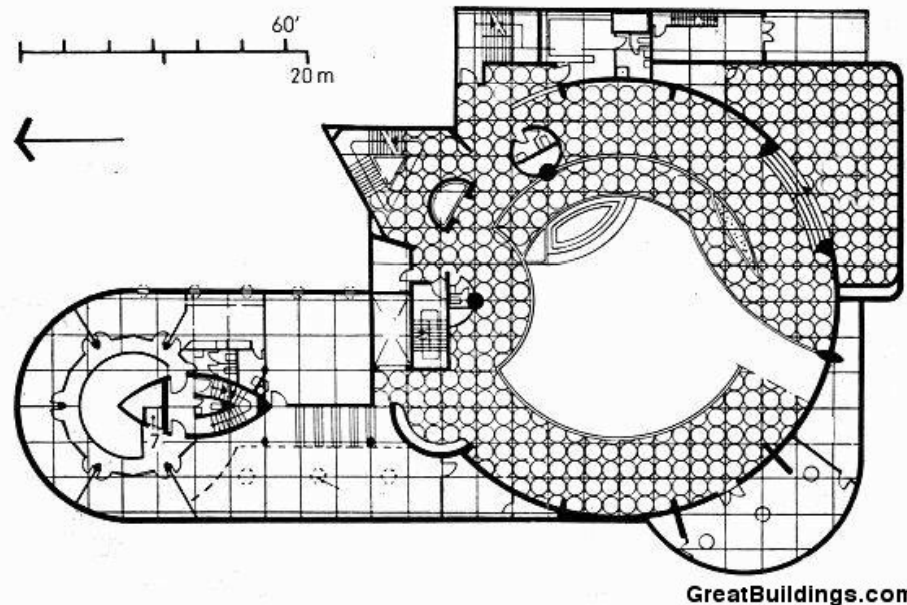
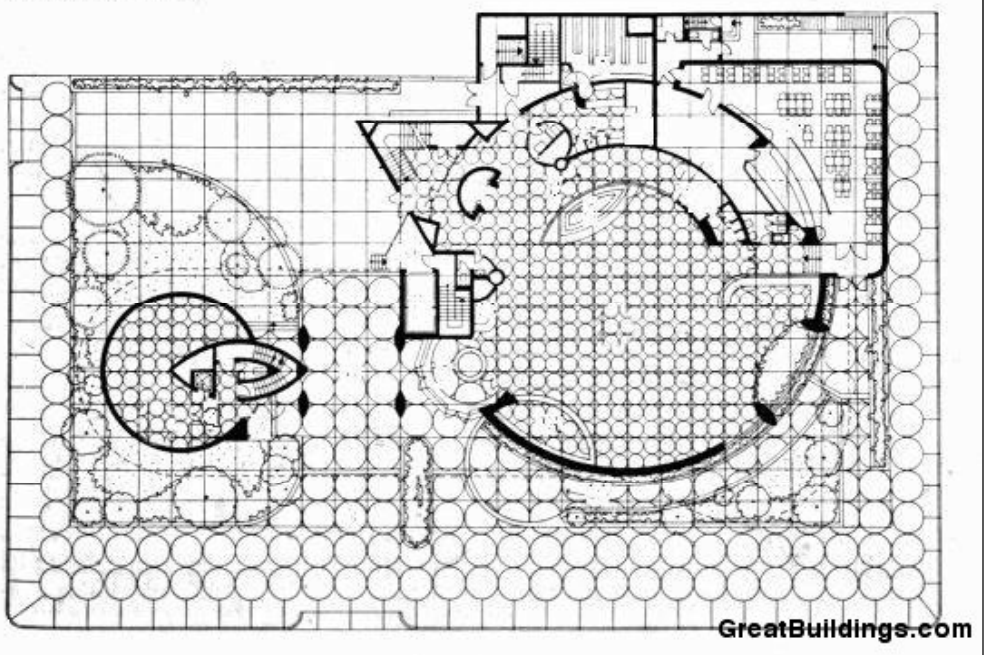


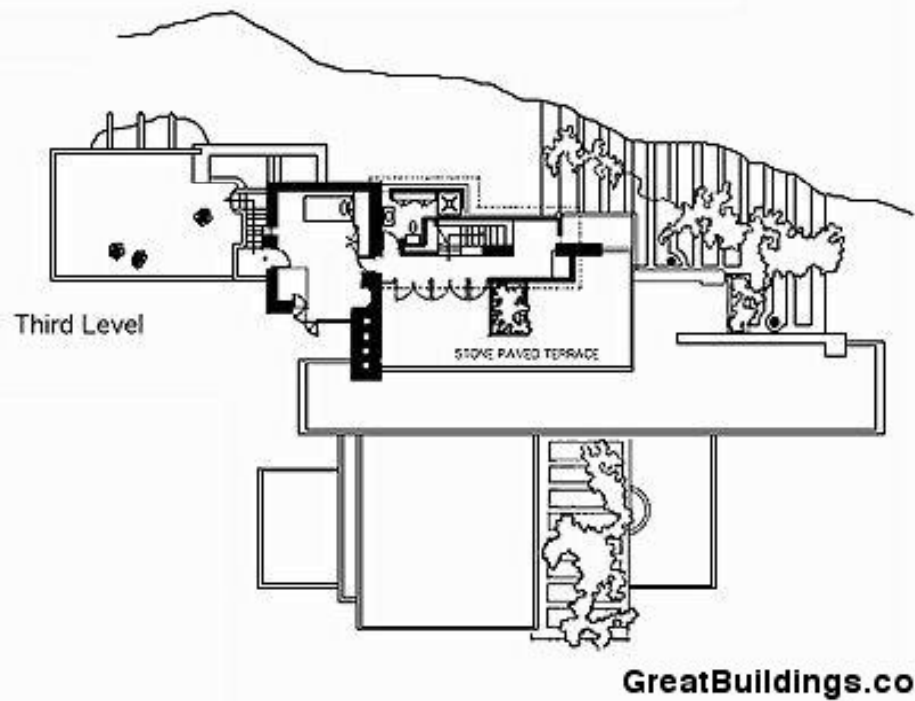
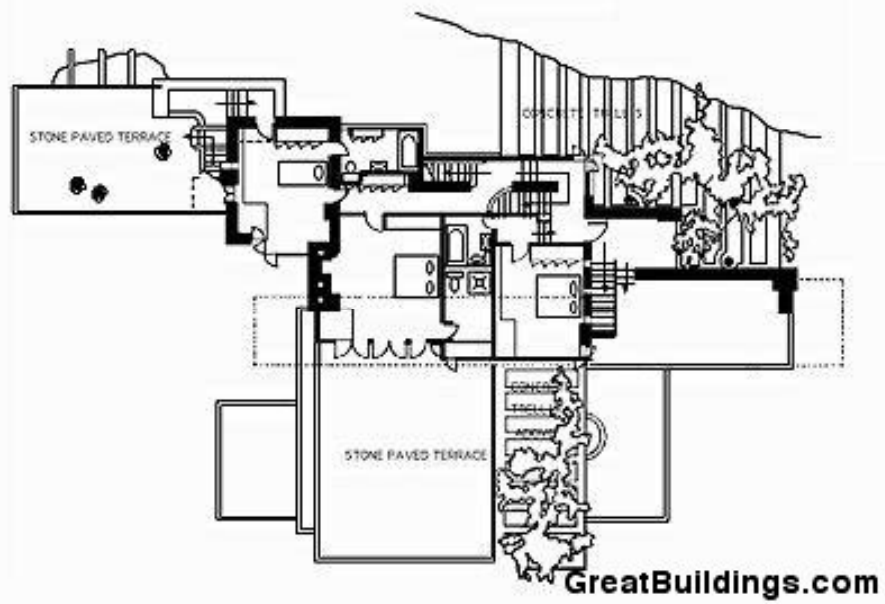
GUGGENHEIM MUSEUM

FRANK LLOYD WRIGHT

1959

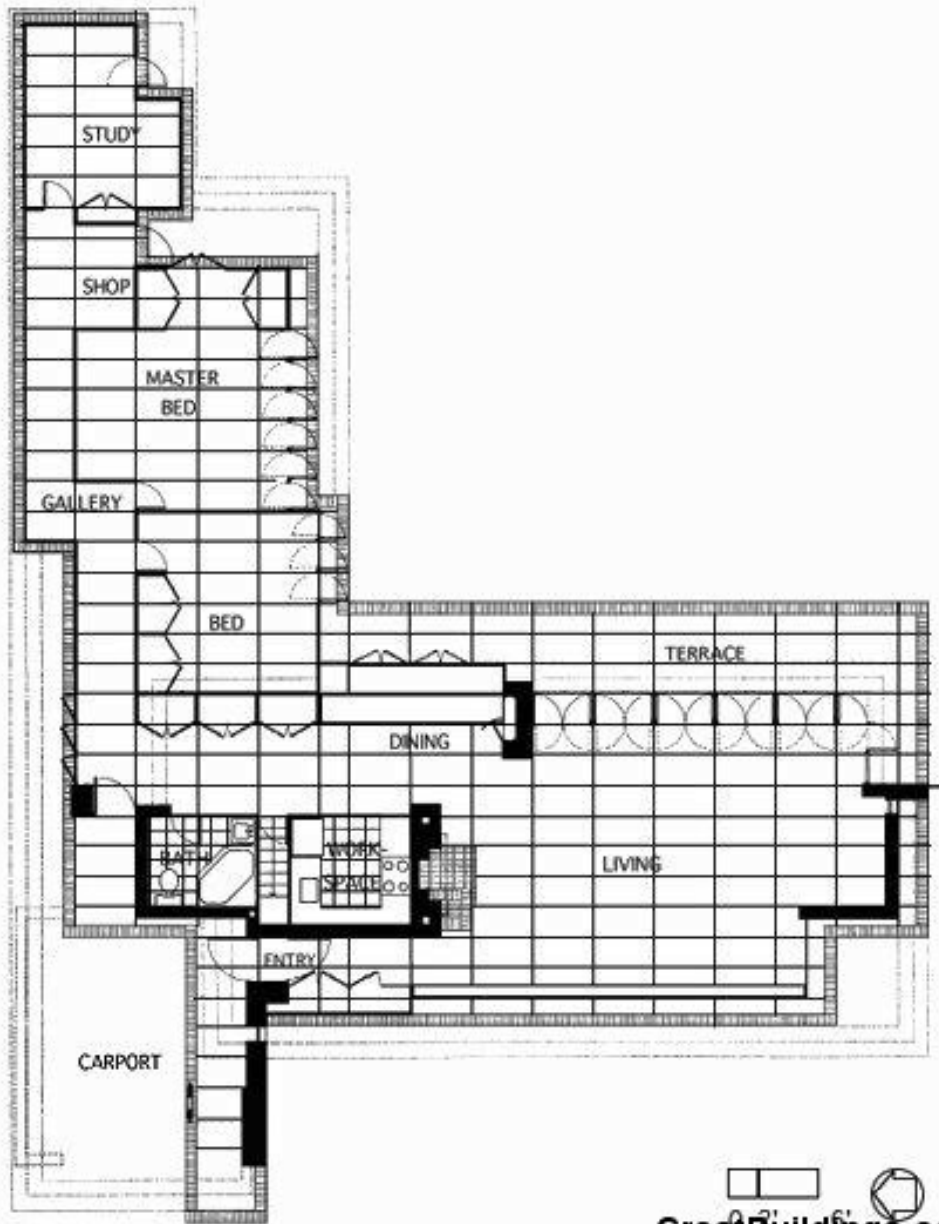
Plan, ground floor

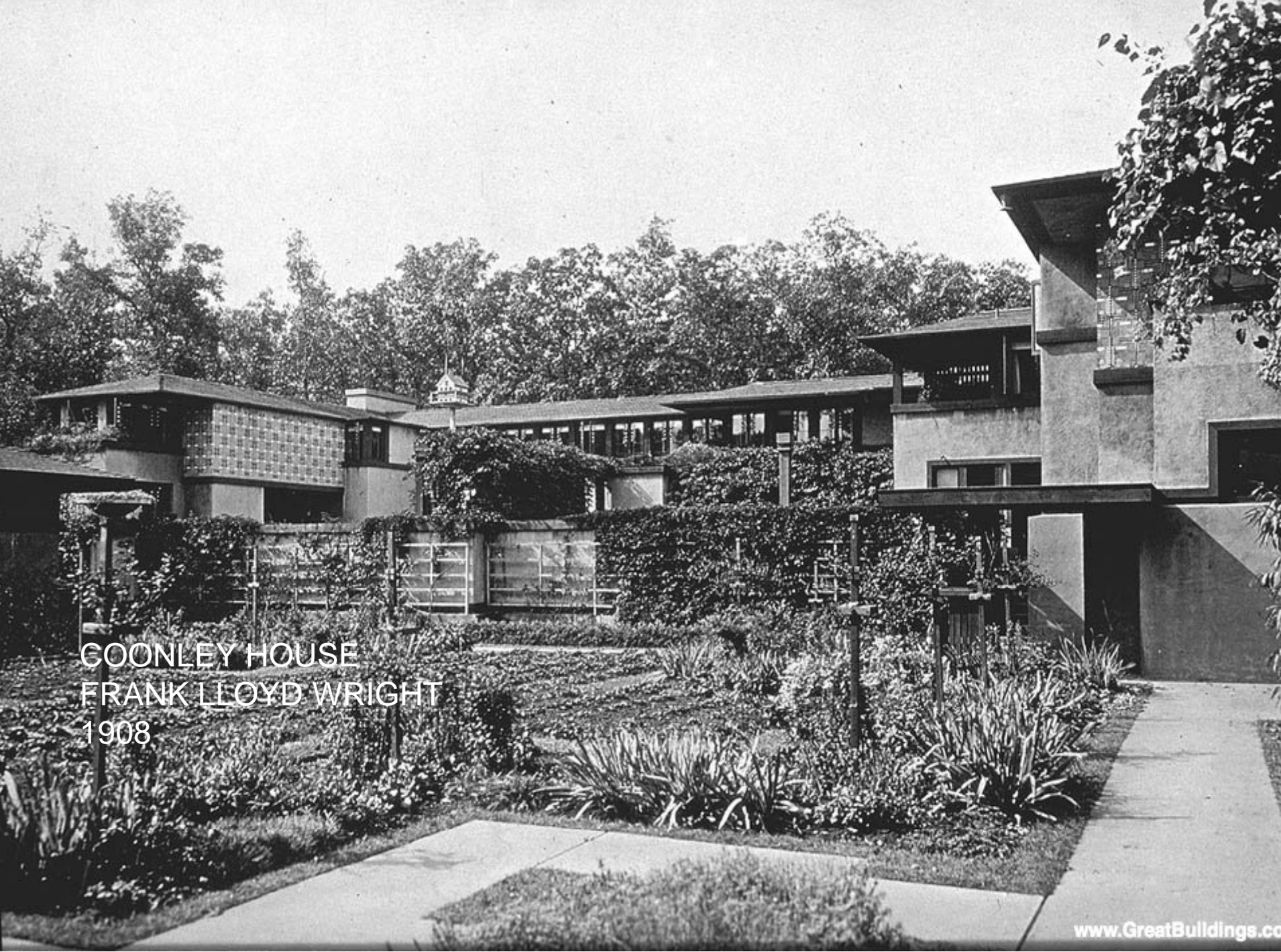




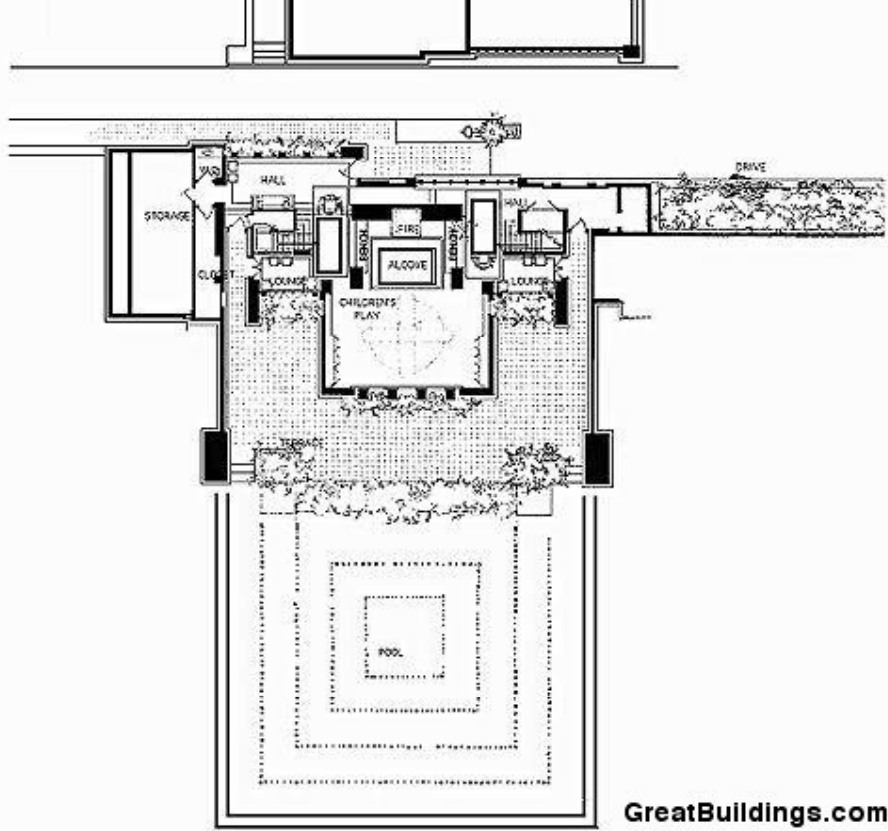


CASA JACOBS
FRANK LLOYD WRIGHT
1936

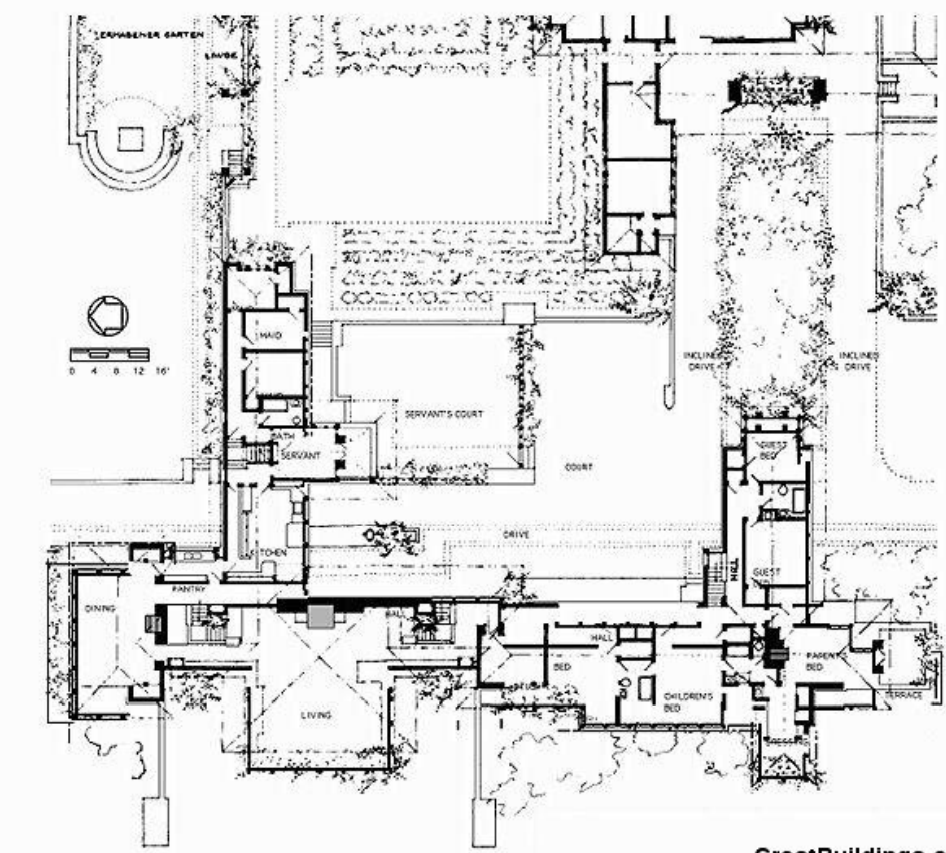




GOONLEY HOUSE
FRANK LLOYD WRIGHT
1908



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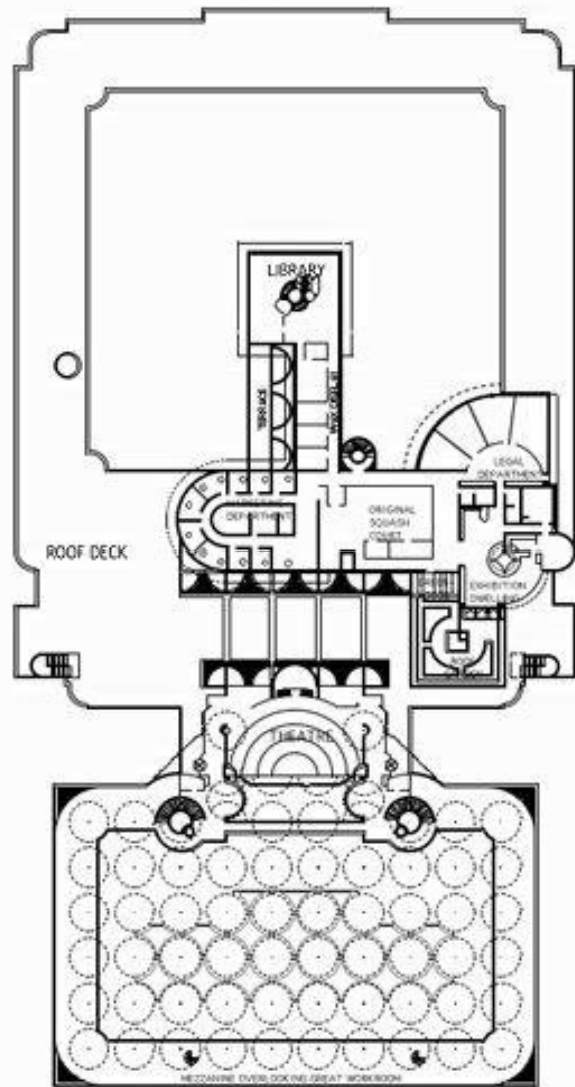


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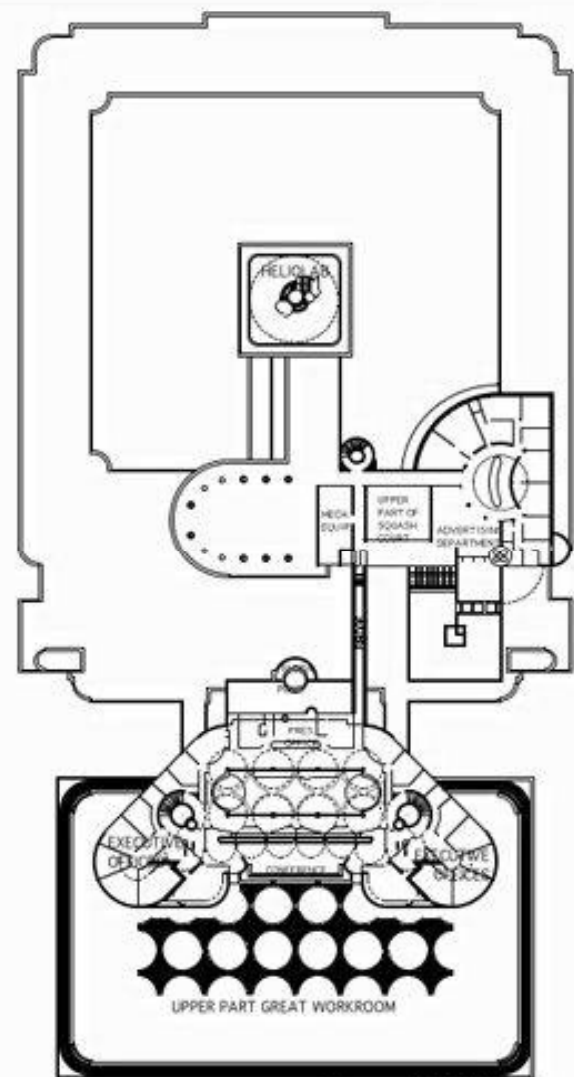
The image shows the Johnson Wax Building, a prime example of Frank Lloyd Wright's organic architecture. On the left, a tall, dark, cylindrical tower with horizontal white bands rises against a clear blue sky. To the right, a large, curved brick building with multiple levels and cantilevered sections is visible. The foreground features a red brick walkway and a paved area. The overall scene is captured in bright daylight.

JOHNSON WAX BUILDING
FRANK LLOYD WRIGHT
1944

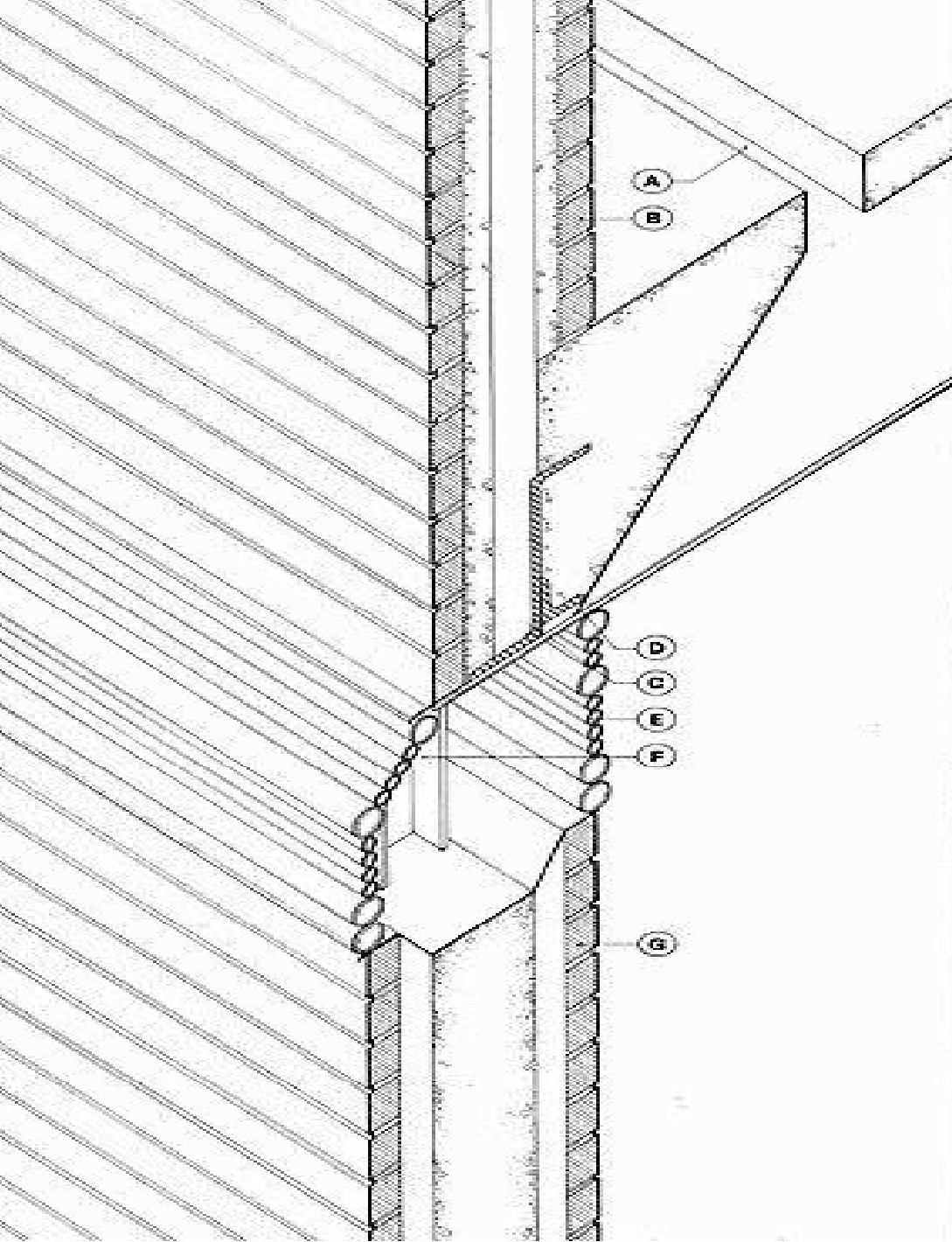




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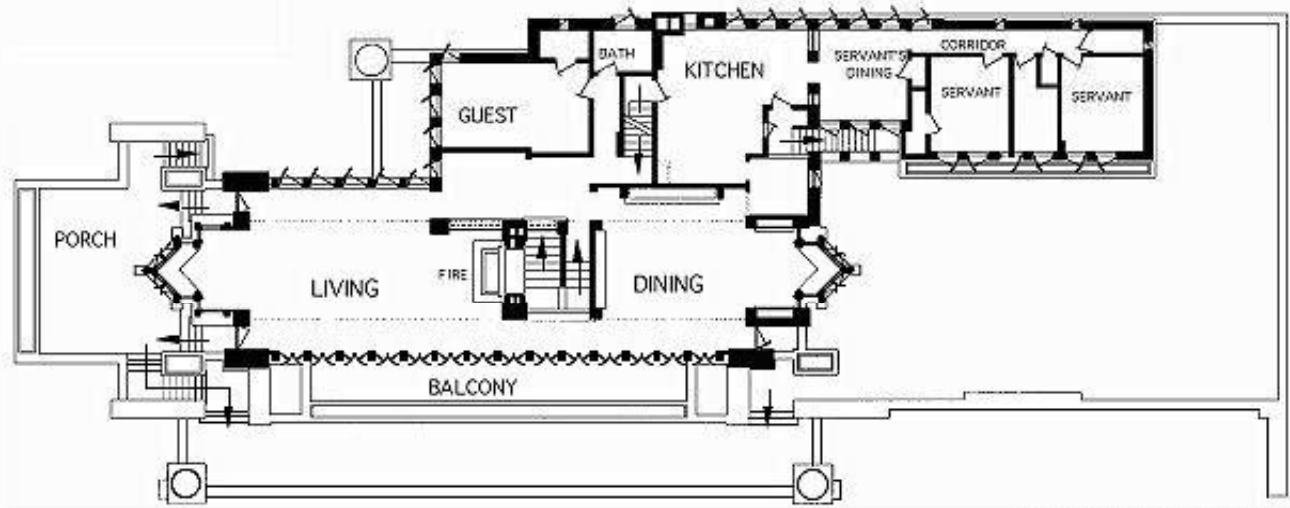
GreatBuildings.com



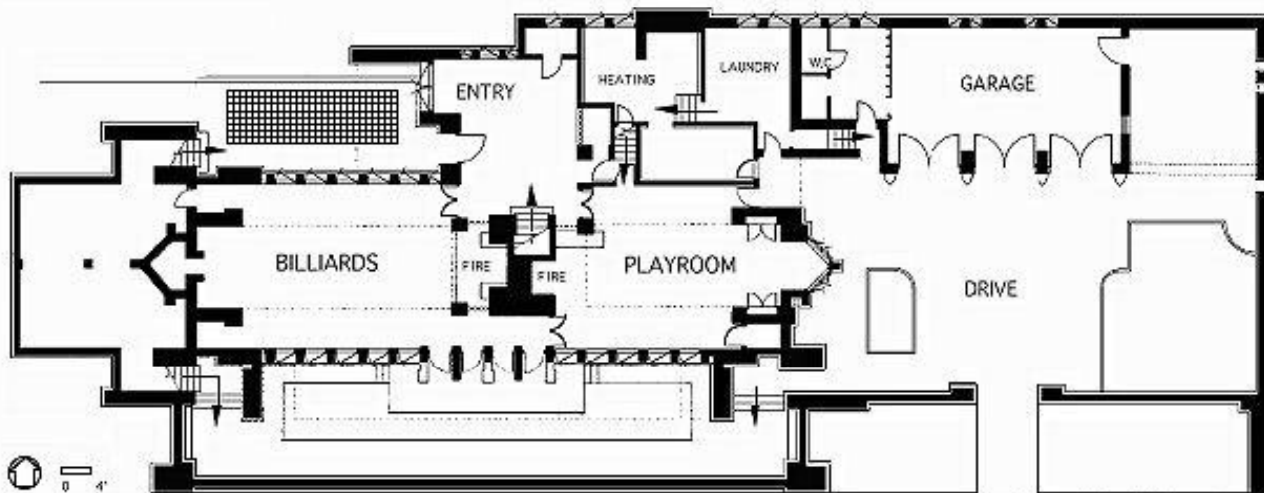
- A** Concrete floor slab with slot for air distribution.
- B** Upper wall construction. A layer of brick on each face forms a cavity, which is then filled with cork boards and then concrete with reinforcing on either side.
- C** Structural steel Z and angle. This is supported by a steel column (not shown in the drawing).
- D** Plaster ceiling. The space between the concrete slab and the plaster ceiling is used for air distribution.
- E** Pyrex glass tubing.
- F** Cast-aluminum rack to hold glass tubes.
- G** Lower wall construction. The cork layer here is separated by a concrete wall.



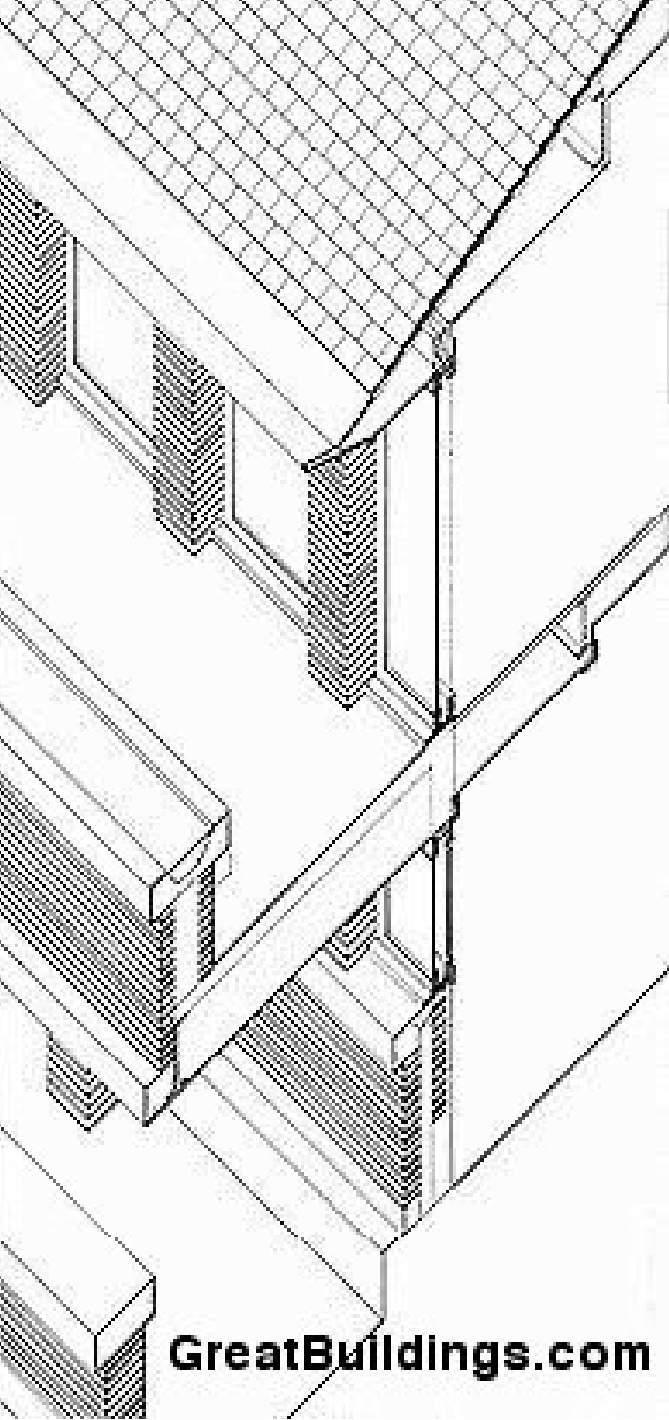
ROBIE RESIDENCE
FRANK LLOYD WRIGHT
1909



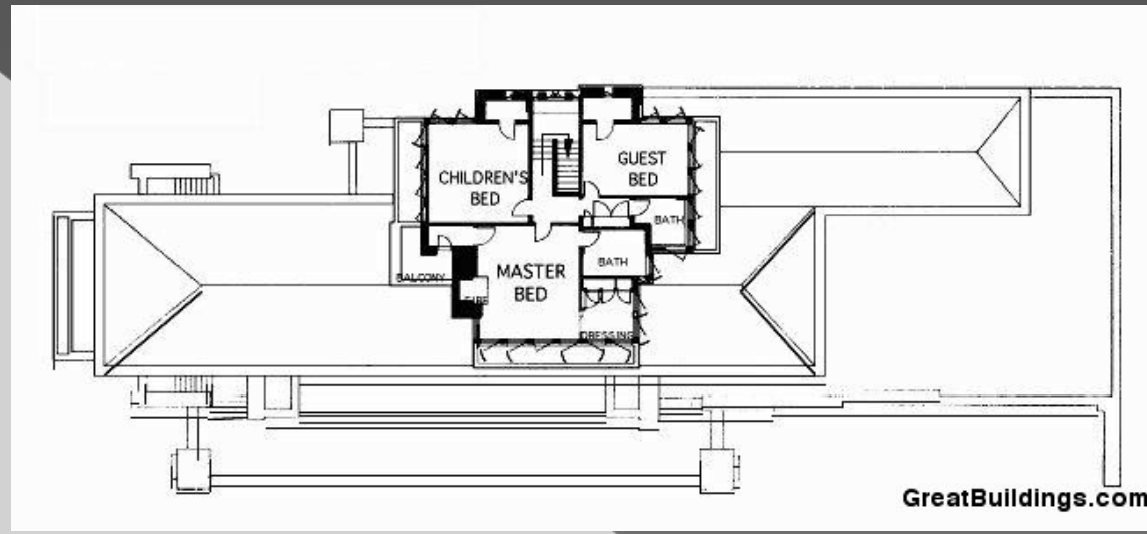
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4. COMPARACIÓN A LO CONTEMPORANEO

FRANSWORTH HOUSE
MIES VAN DER ROHE
1946



BELVEDERE
ALBERTO CAMPO BAEZA
2000



BIBLIOTHECA ALEXANDRINA
SNOHETTA
2001

JOHNSON WAX BUILDING
FRANK LLOYD WRIGHT
1944



CASA JACOBS
FRANK LLOYD WRIGHT
1936



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CERAMICS PARK MINO
ARATA ISOZAKI
2002

PABELLON DE BERLÍN
MIES VAN DER ROHE



www.GreatBuildings.com



FORUM ART PLACE BIEL
COOP HIMMELB (L) AV
2002

GREAT BAMBOO WALL

KENGO KUMA

2002



CASA DE LA CASCADA

FRANK LLOYD WRIGHT

1939

HOUSE IN THE ROCKY MOUNTAINS

ALEXANDER GORLIN

2001



CASA DE LA CASCADA

FRANK LLOYD WRIGHT

1939

KOEHLER HOUSE

JULIE SNOW ARCHITECTS



CASA DE LA CASCADA
FRANK LLOYD WRIGHT
1939

MEYER EN VAN SCHOOTEN
FNG GROUP HEADQUARTERS
2002



VILLA SAVOYE
LE CORBUSIER
1929

ROBIE RESIDENCE
FRANK LLOYD WRIGHT
1909



NORDDEUTSCHE LANDESBANK
BEHNISCH, BEHNISCH &
PARTNER

2002

REIHOKU COMMUNITY HALL

HITOSHI ABE

2002



NOTRE DAME DU HAUT

LE CORBUSIER

1955

SERPENTINE GALLERY
PAVILION

OSCAR NIEMEYER

2003



FRANSWORTH HOUSE

MIES VAN DER ROHE

1946