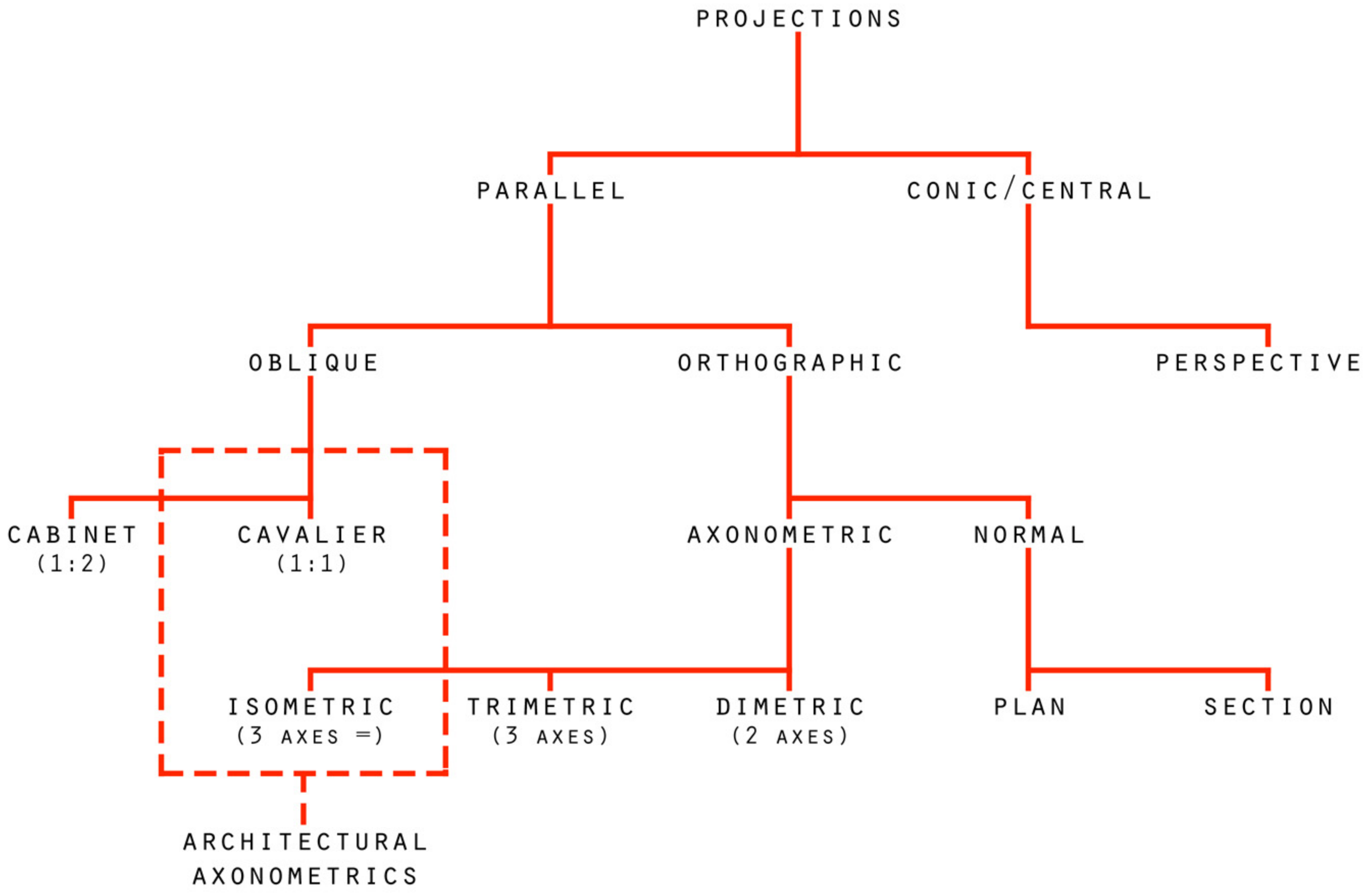


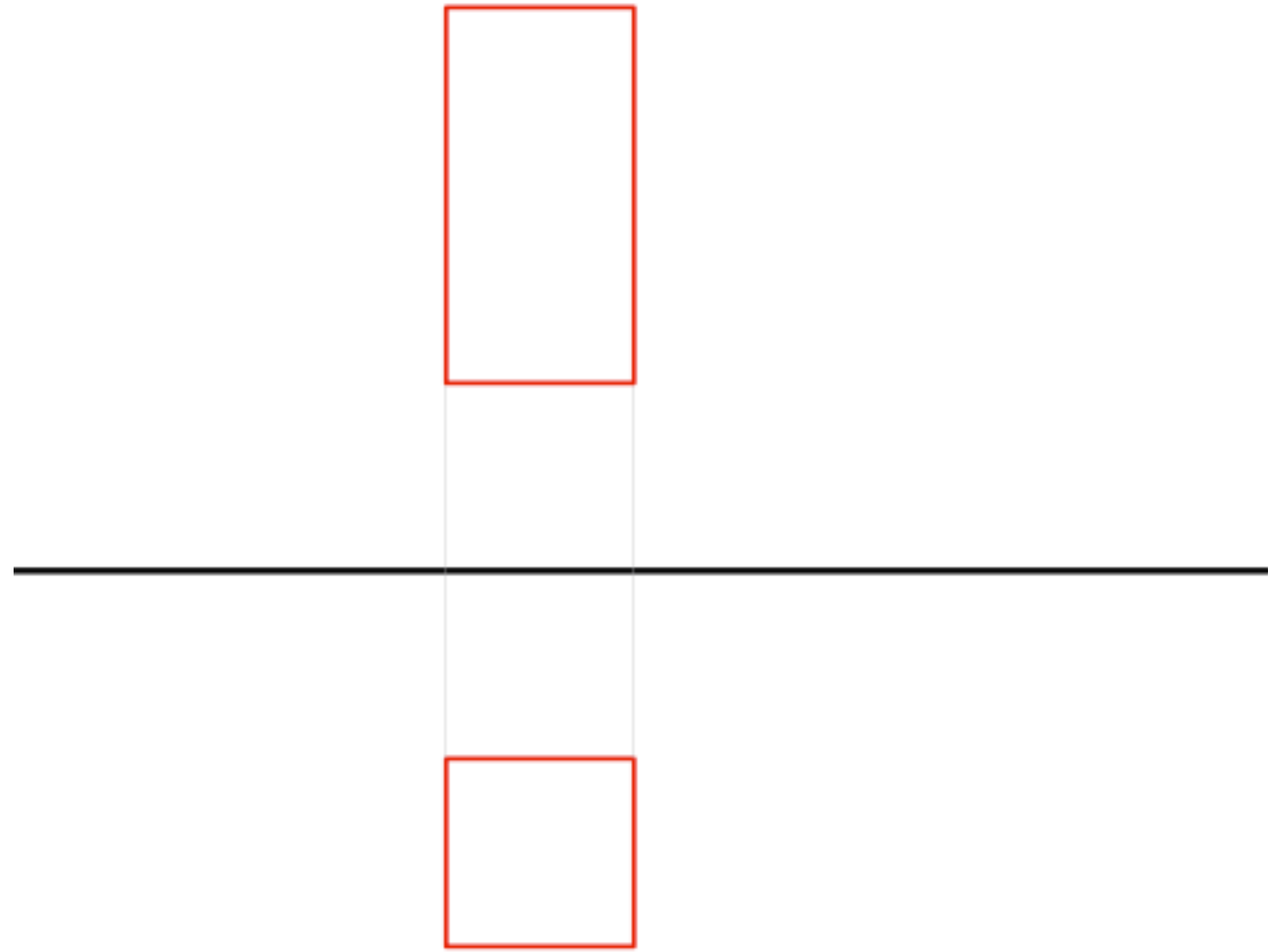
Image by MIT OpenCourseWare.

# AXONOMETRIC CONSTRUCTIONS

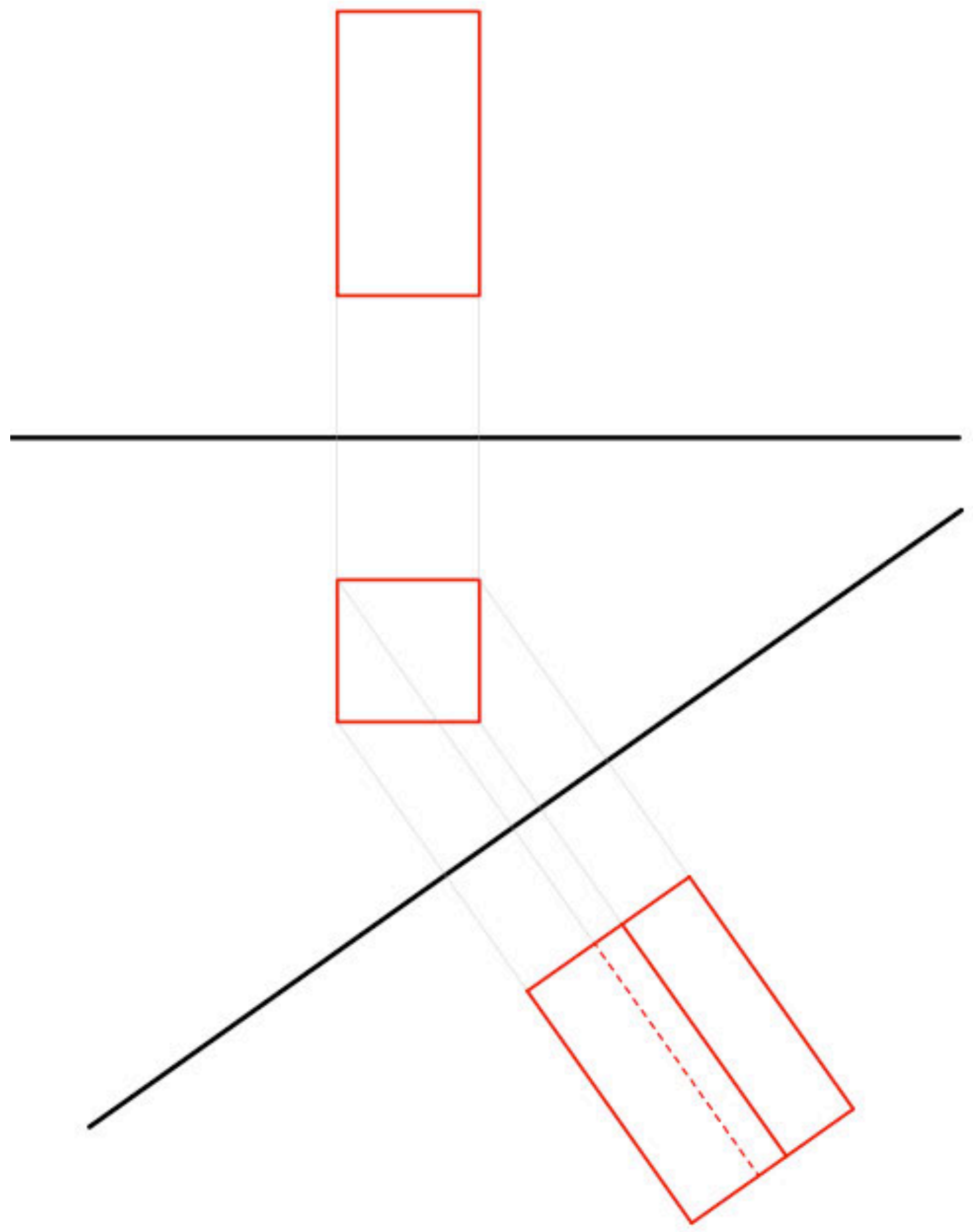
matrix of projection types



# TRIMETRIC AS PROJECTION

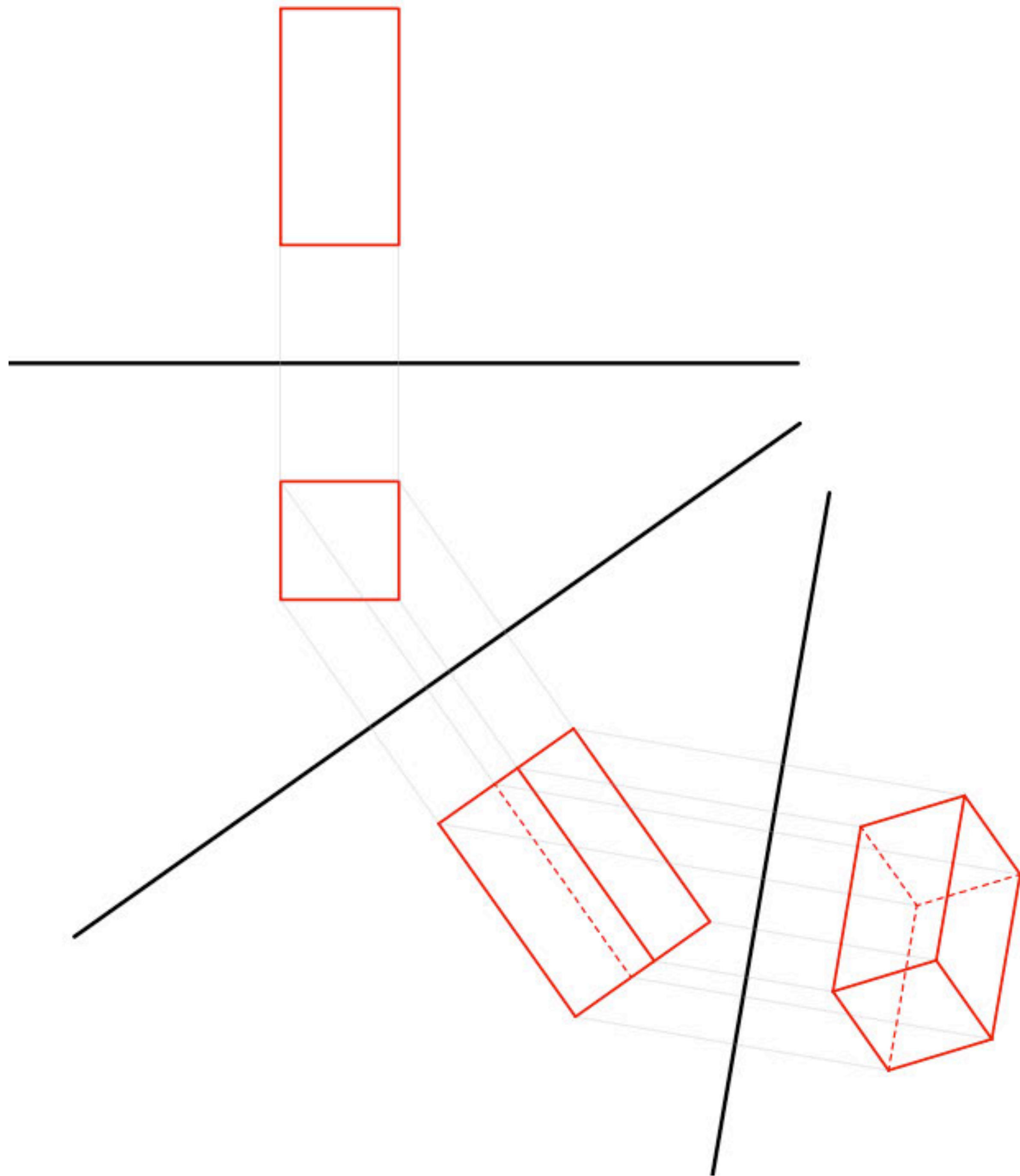


**TRIMETRIC AS PROJECTION**



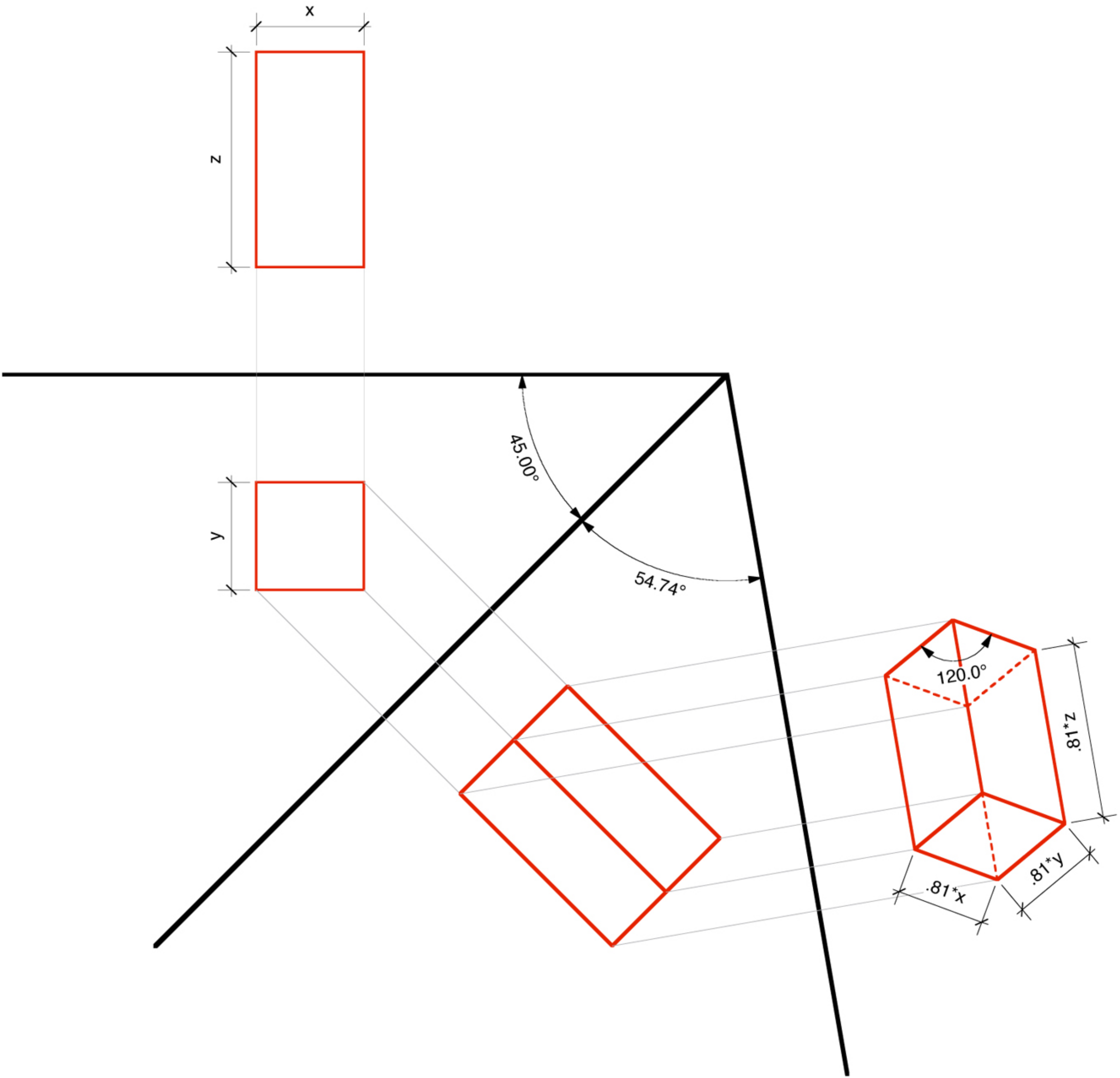
# TRIMETRIC AS PROJECTION

all axes are foreshortened



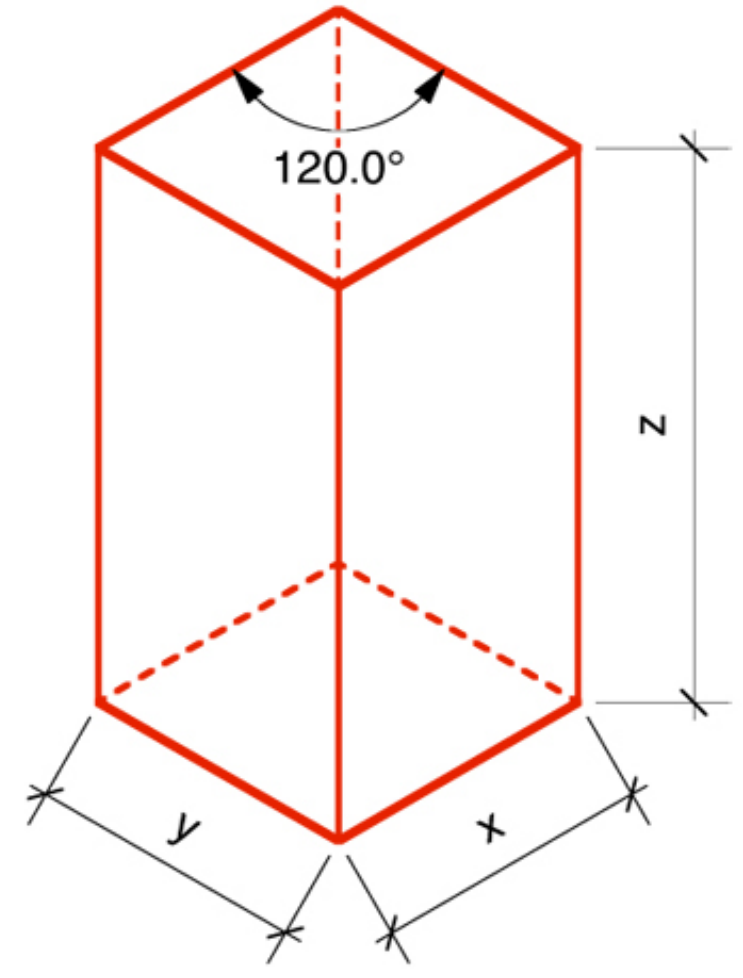
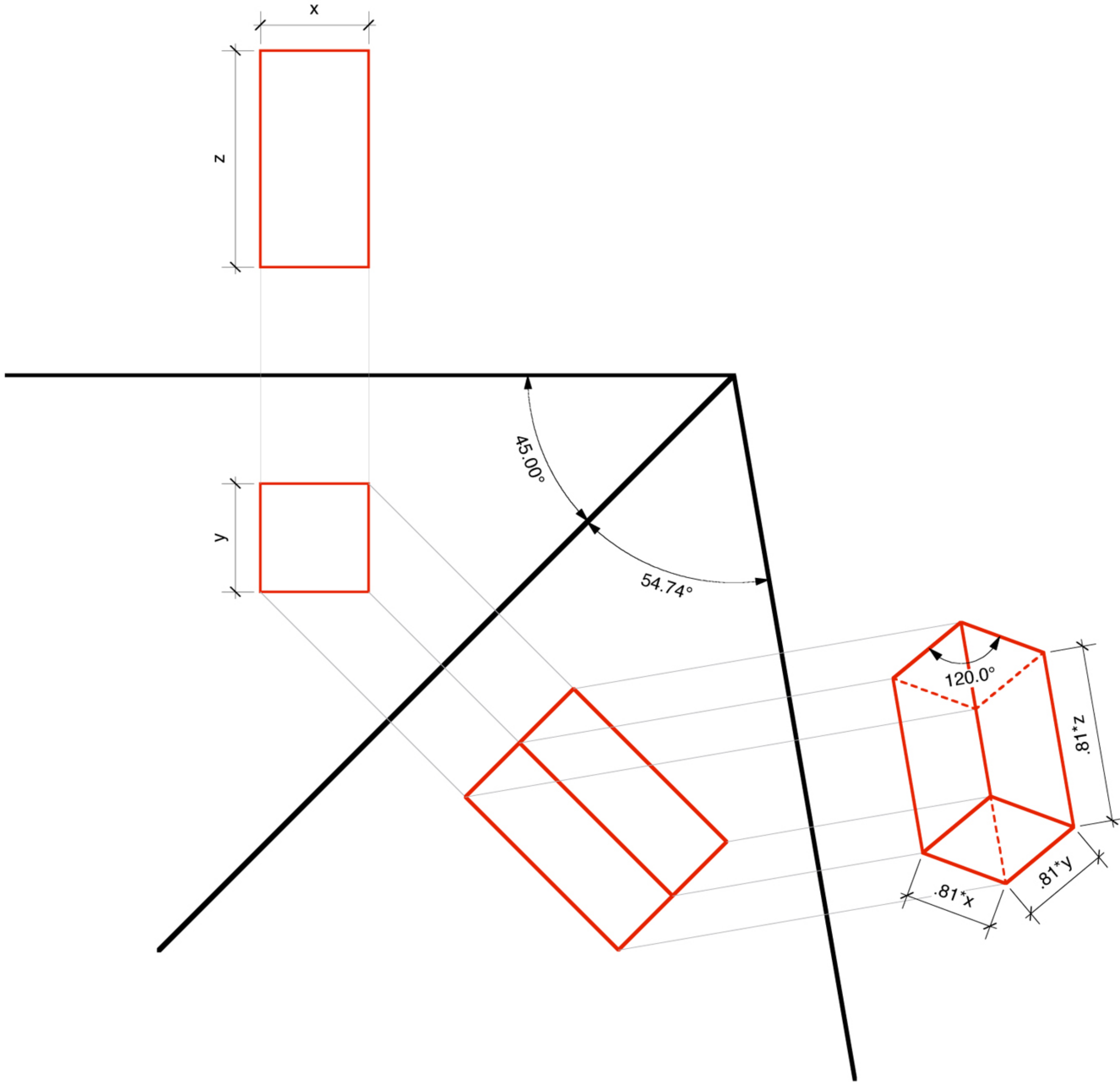
# ISOMETRIC AS PROJECTION

special case trimetric: all axes are foreshortened equally



# ISOMETRIC AS PROJECTION

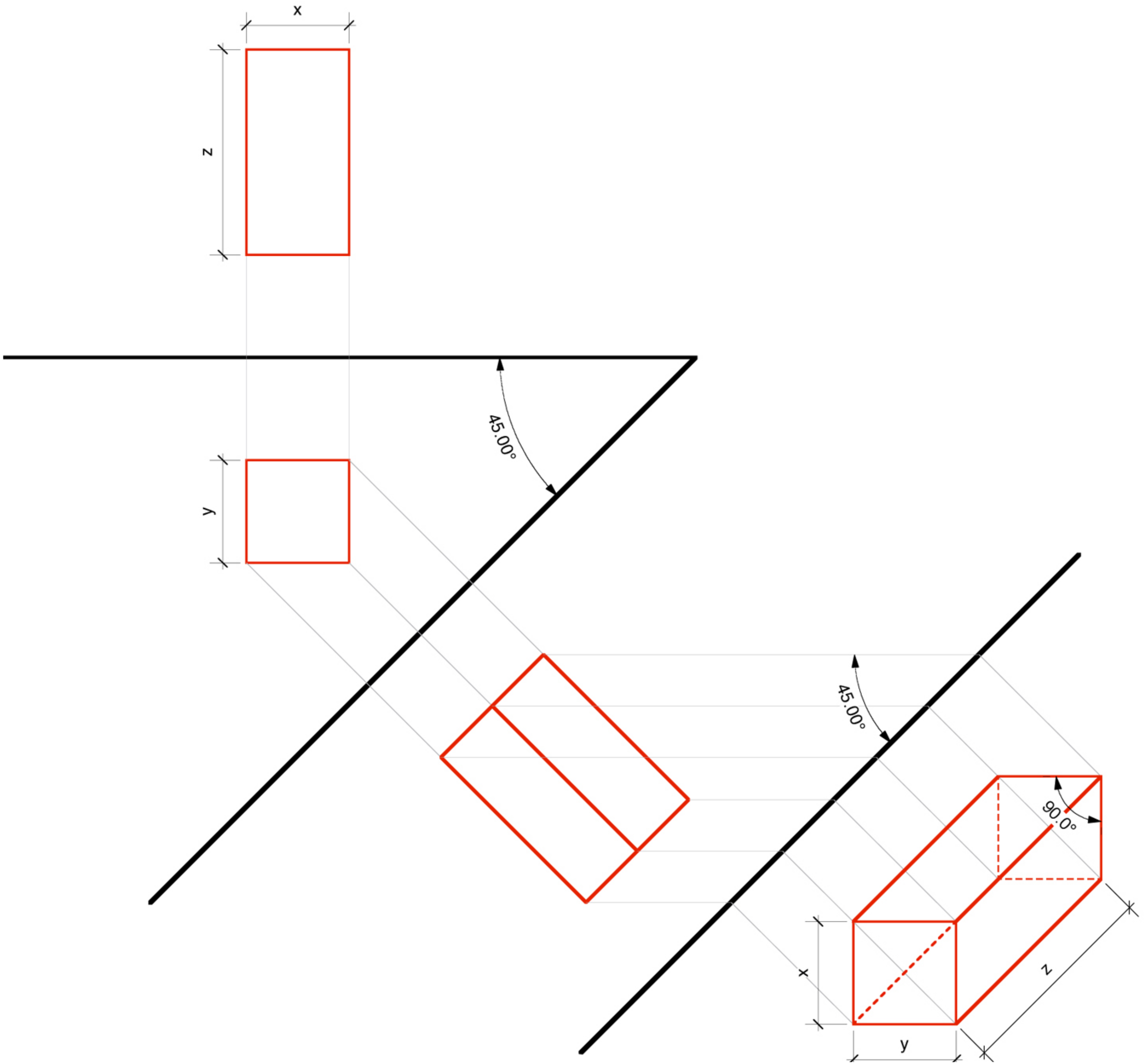
all axes are drawn true length - all shapes reconstructed





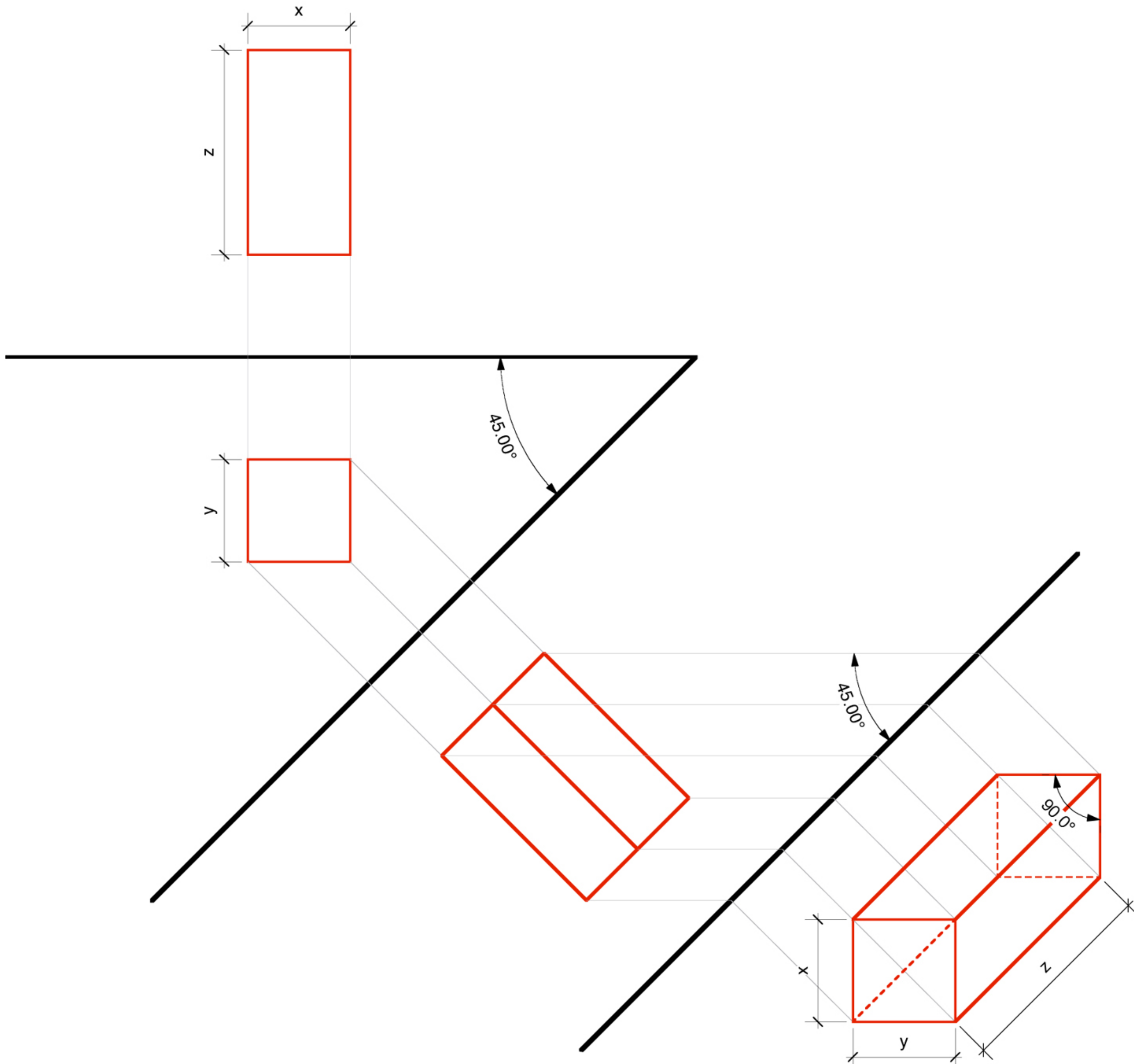
# ARCHITECTURAL AXONOMETRIC AS PROJECTION

parallel oblique projection - projection plane parallel to one face

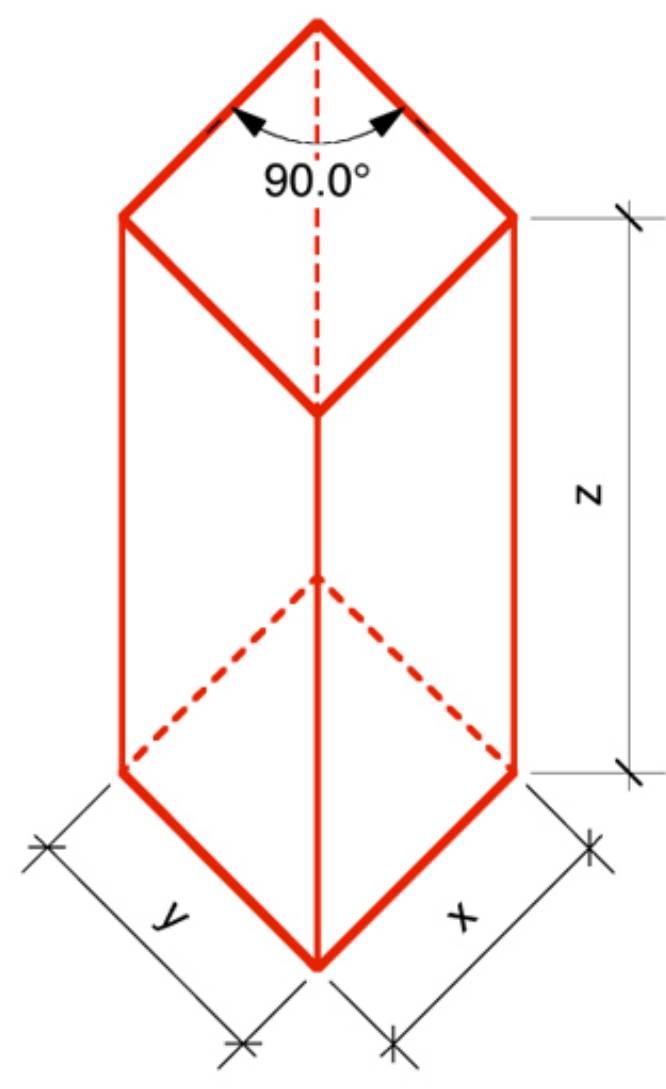


# ARCHITECTURAL AXONOMETRIC AS CONSTRUCTED

cavalier axo: all axes are drawn true length - plan shape preserved

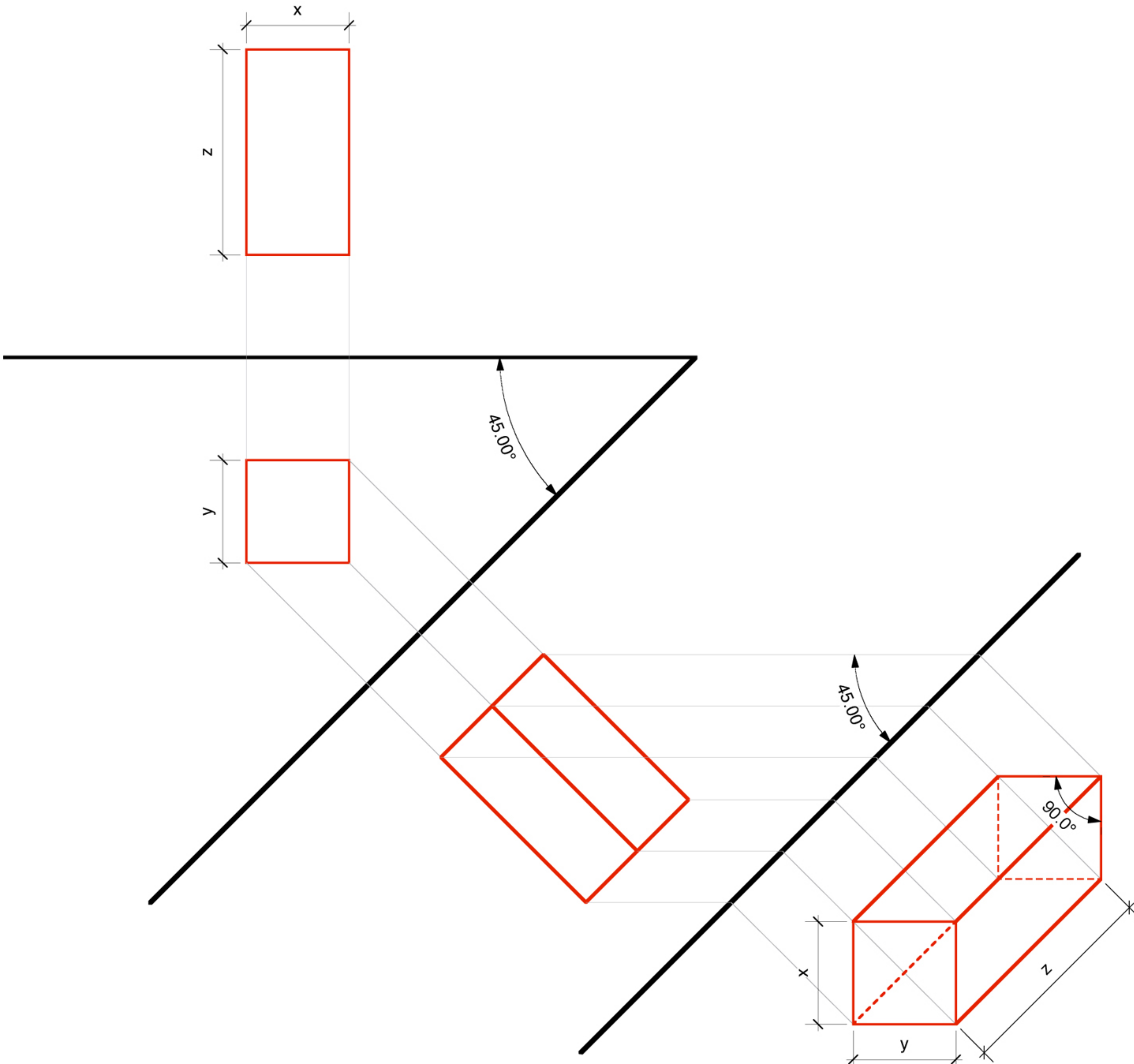


[CAVALIER]

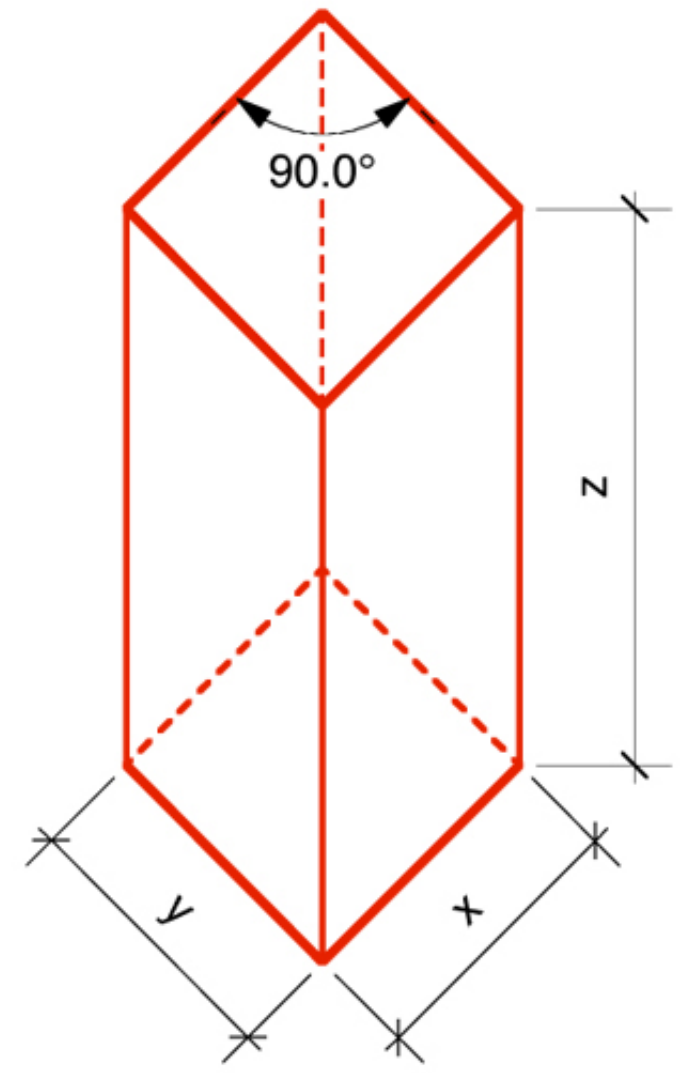


# ARCHITECTURAL AXONOMETRIC AS CONSTRUCTED

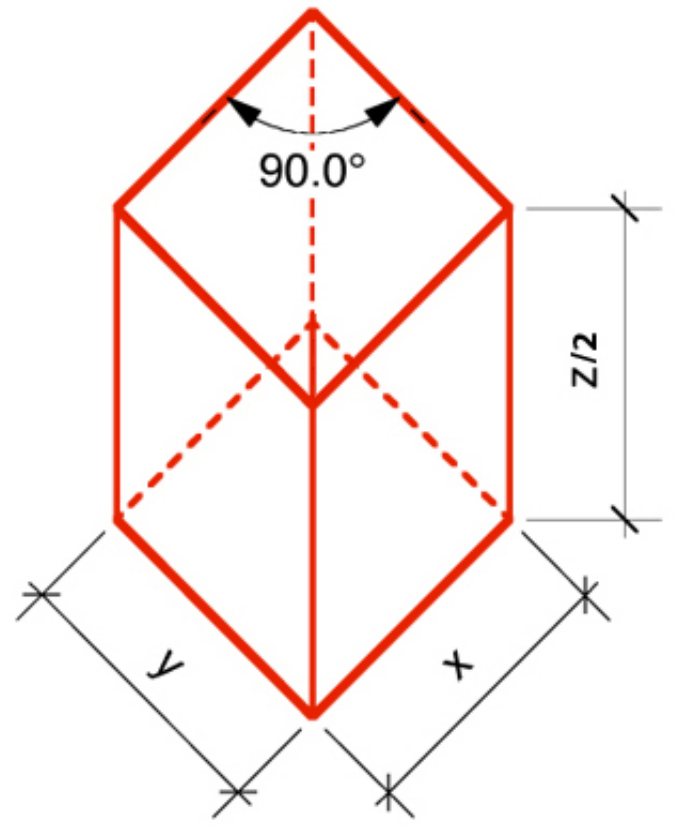
cabinet axo: receding lines at half-length - plan shape preserved



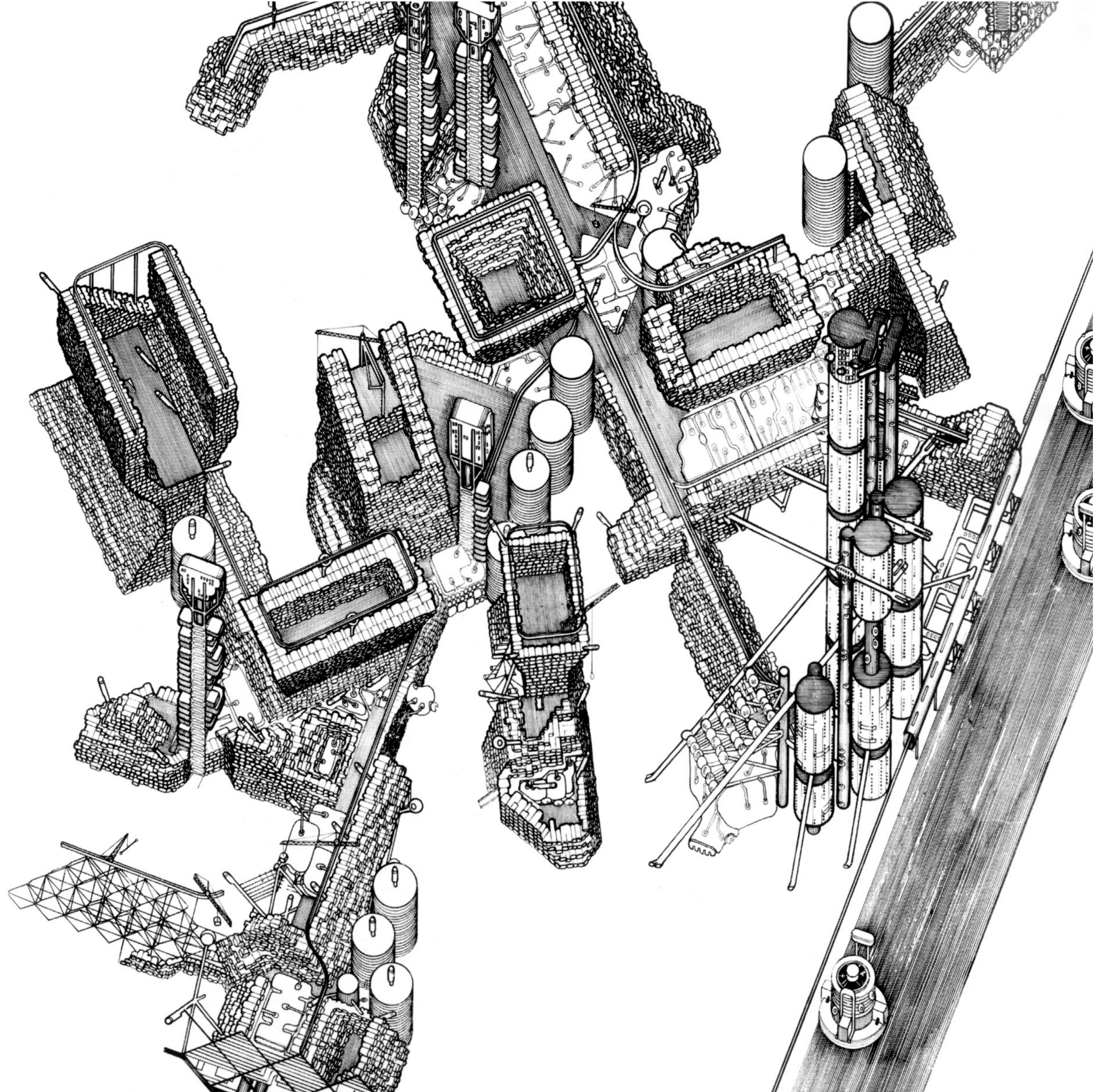
[CAVALIER]



[CABINET]



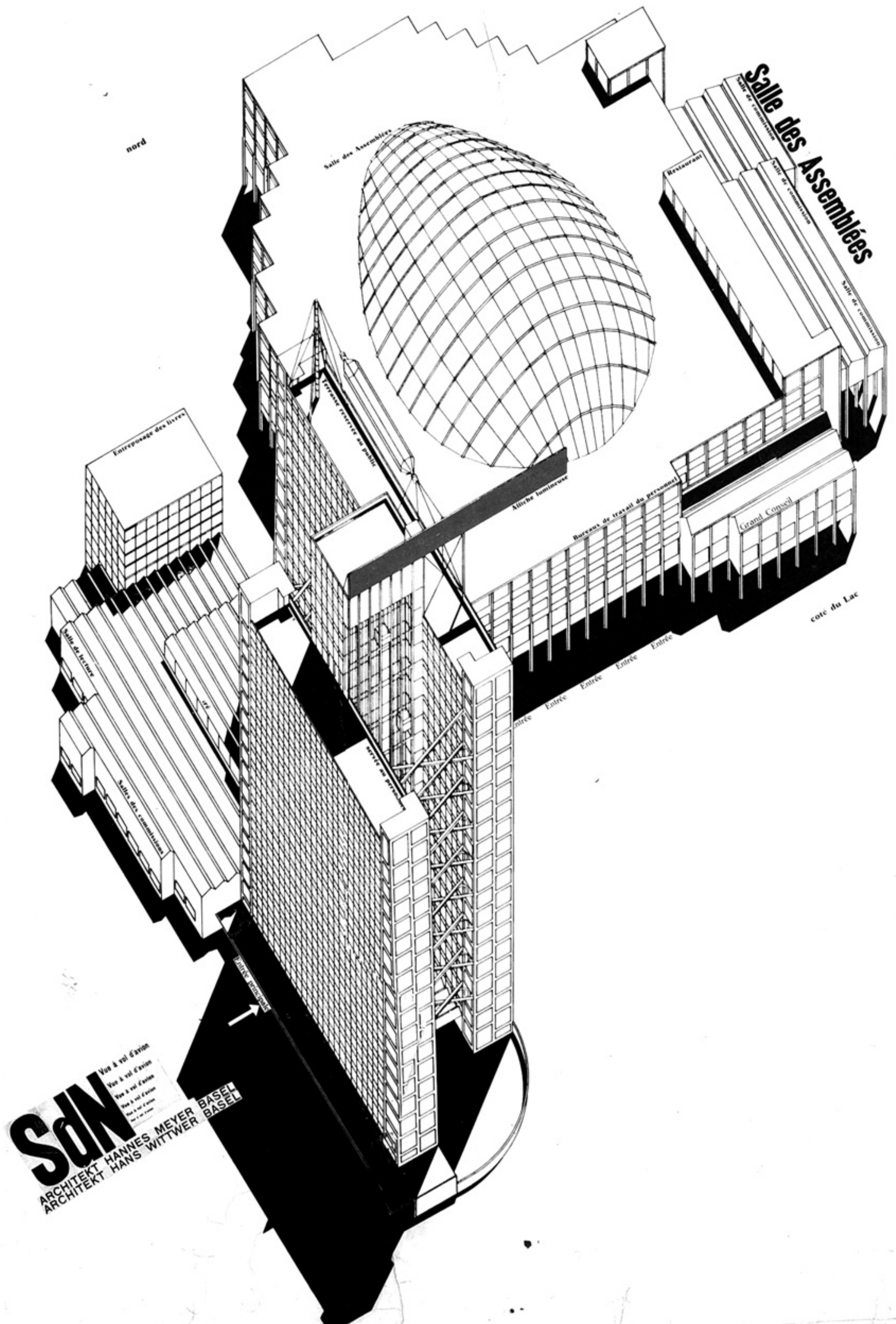
**Plug-In City**  
Archigram (Peter Cook)  
1964



Courtesy of Archigram. Used with permission.

**League of Nations Competition Entry**

Hannes Meyer  
1927



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# **Schroder House**

Gerrit Rietveld

1920's

Drawing of Schröder House removed due to copyright restrictions.  
See [Phaidon picture gallery](#) for a reference image.

# **Maison Particulière**

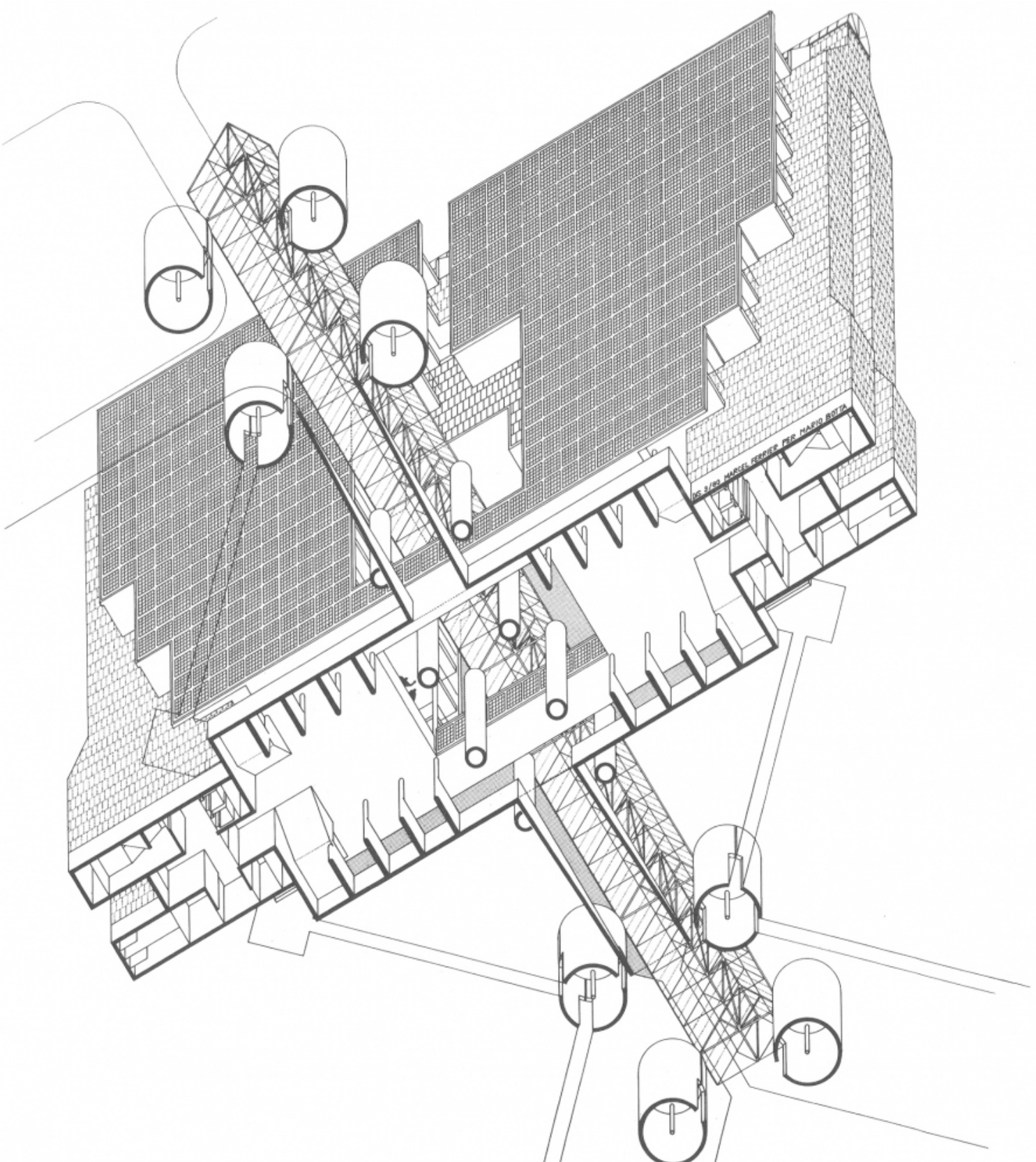
Theo van Doesburg

1923

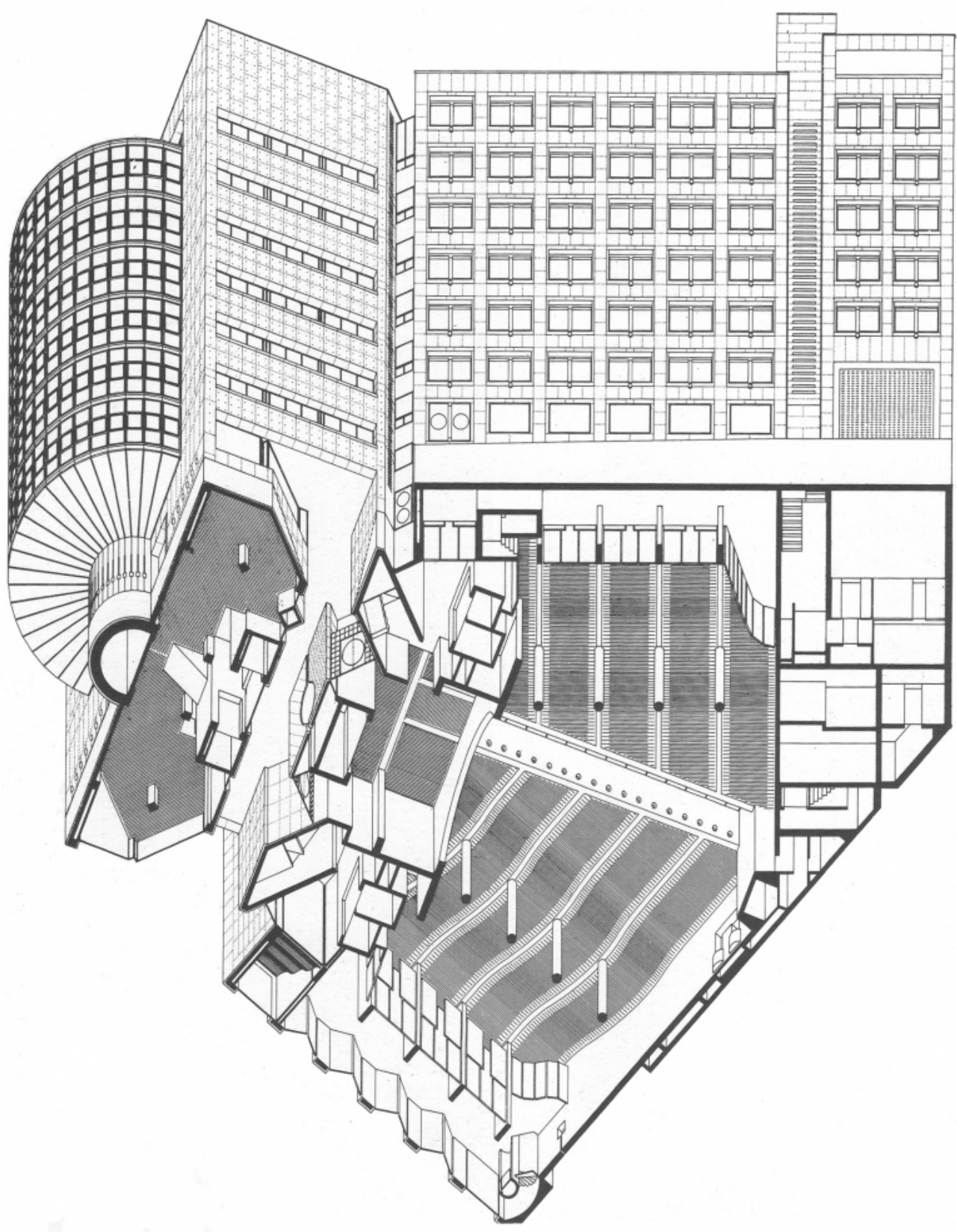
Drawing of Maison Particulière removed due to copyright restrictions.  
See [Martin Sommer's webpage on Doesburg](#) for a reference image.

**Worm's Eye Axonometrics**

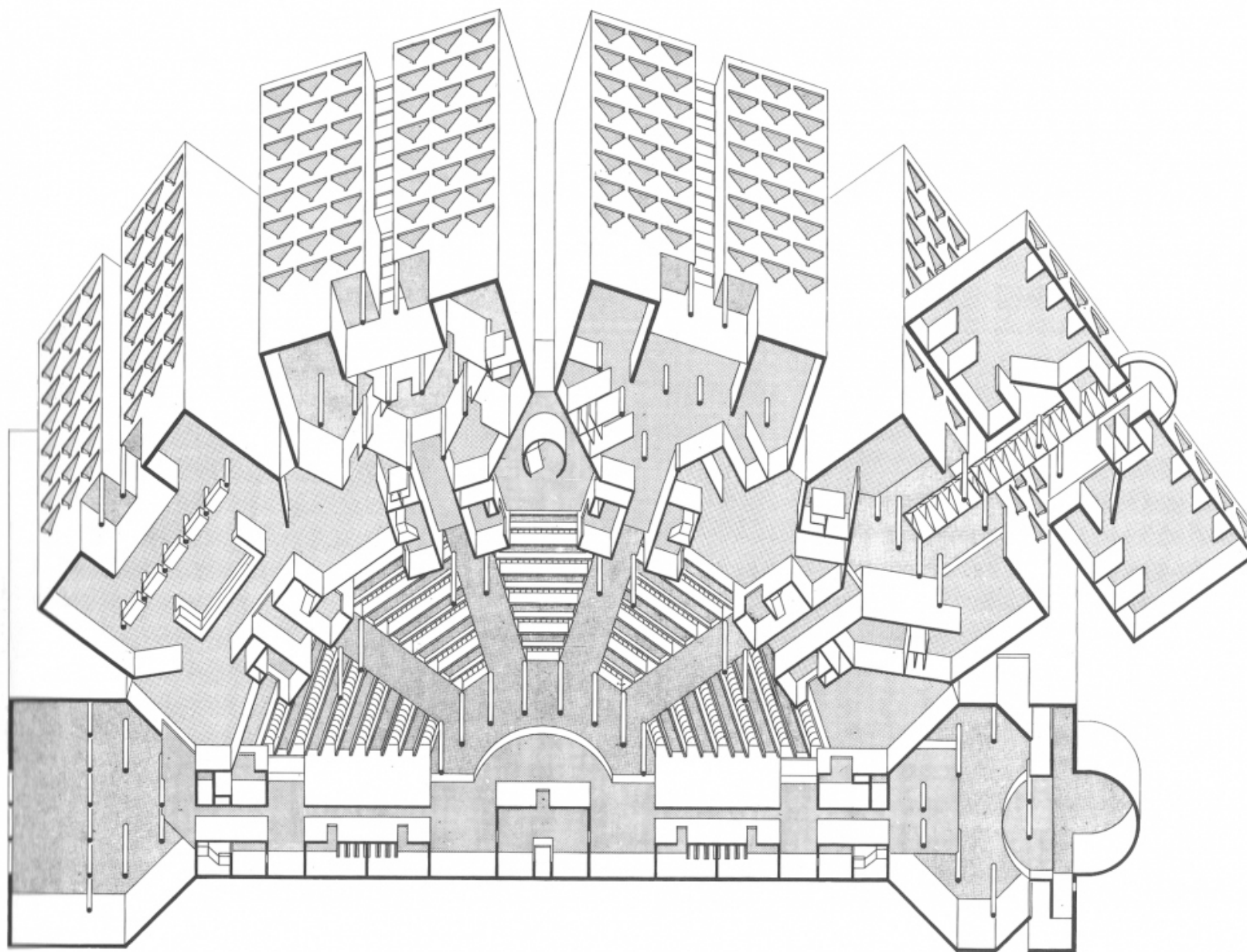
Mario Botta



Nursing home in Agra, Switzerland, competition project, 1980



State bank in Freiburg, Switzerland, 1977-1982



Administrative center in Brühl, Germany, competition project, 1980

Courtesy of Mario Botta Architetto. Used with permission.



# **Whig Hall: Princeton University**

Charles Gwathmey

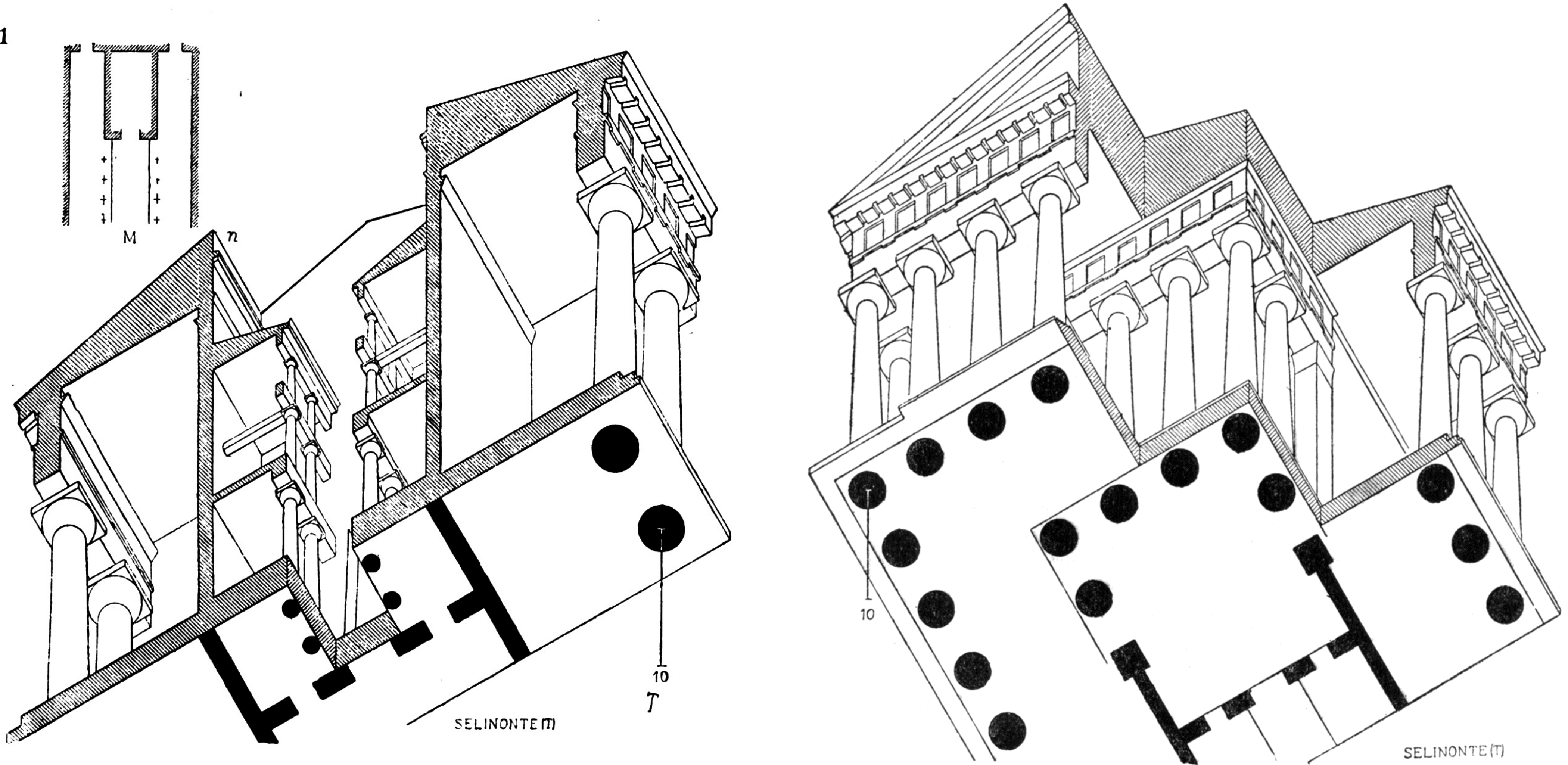
1975

Project axonometrics of Whig Hall removed due to copyright restrictions.  
See page 2 of [Gwathmey Siegel's project PDF on Whig Hall](#) for reference images.

**Temples from "Histoire de L'Architecture"**

Auguste Choisy  
1899

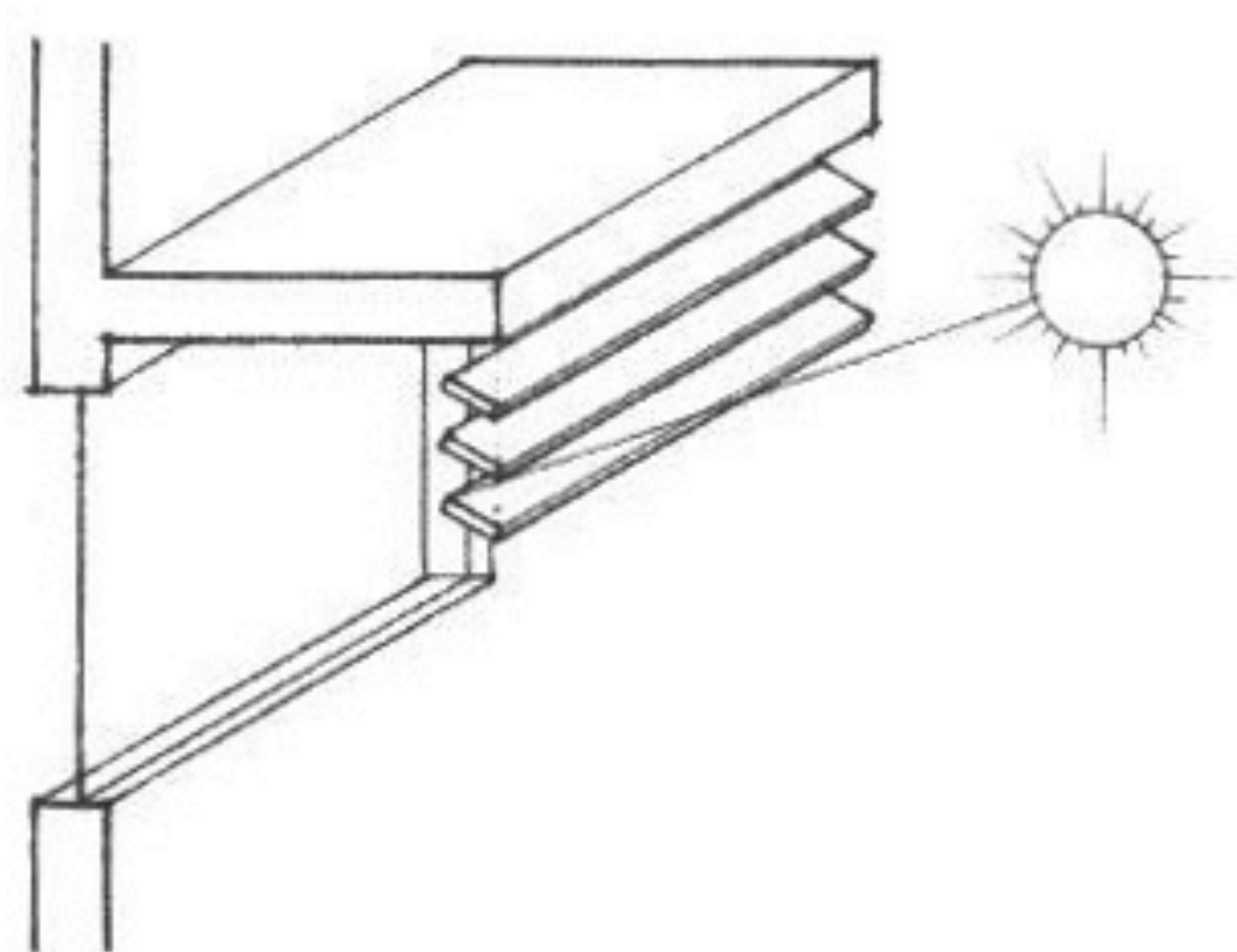
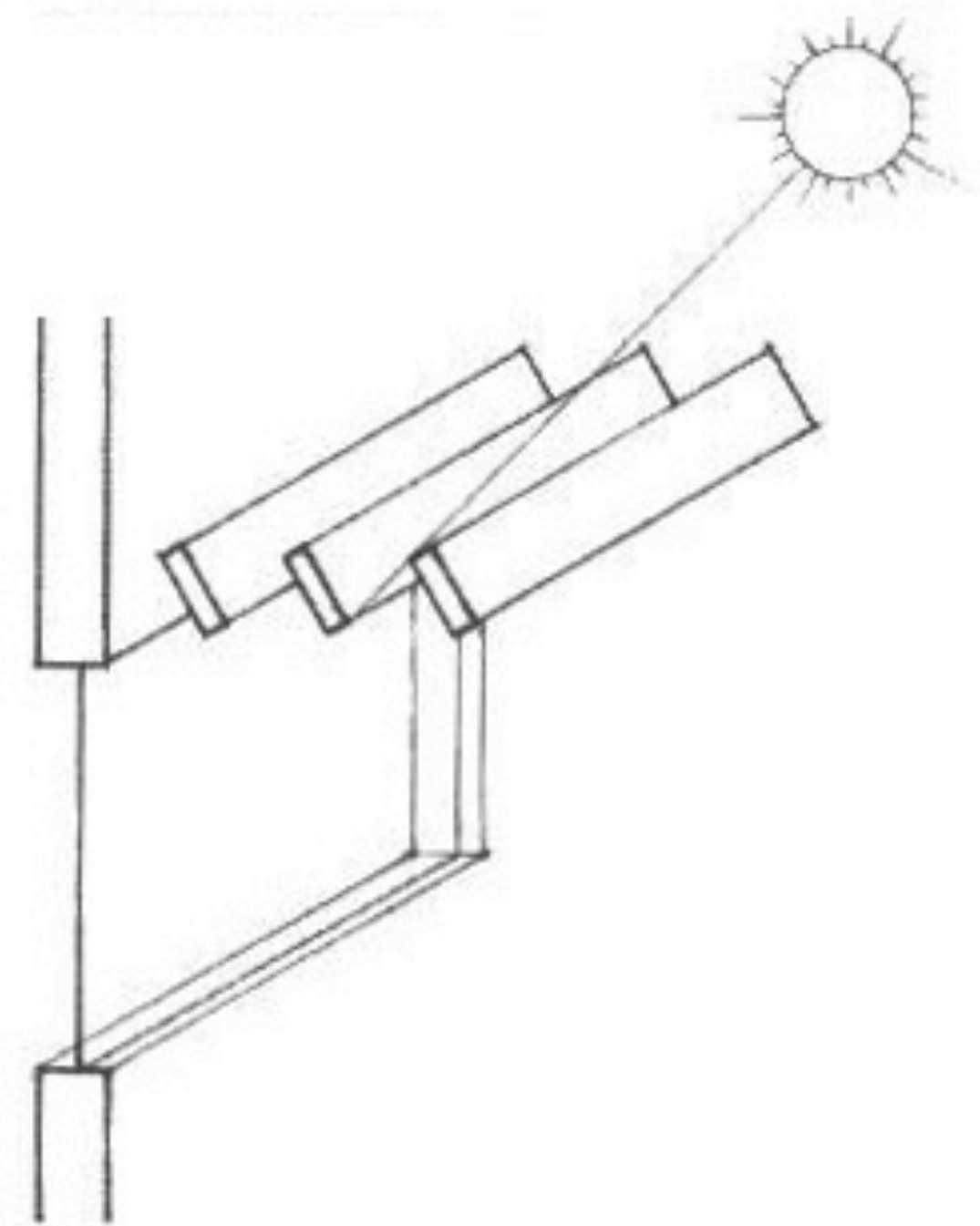
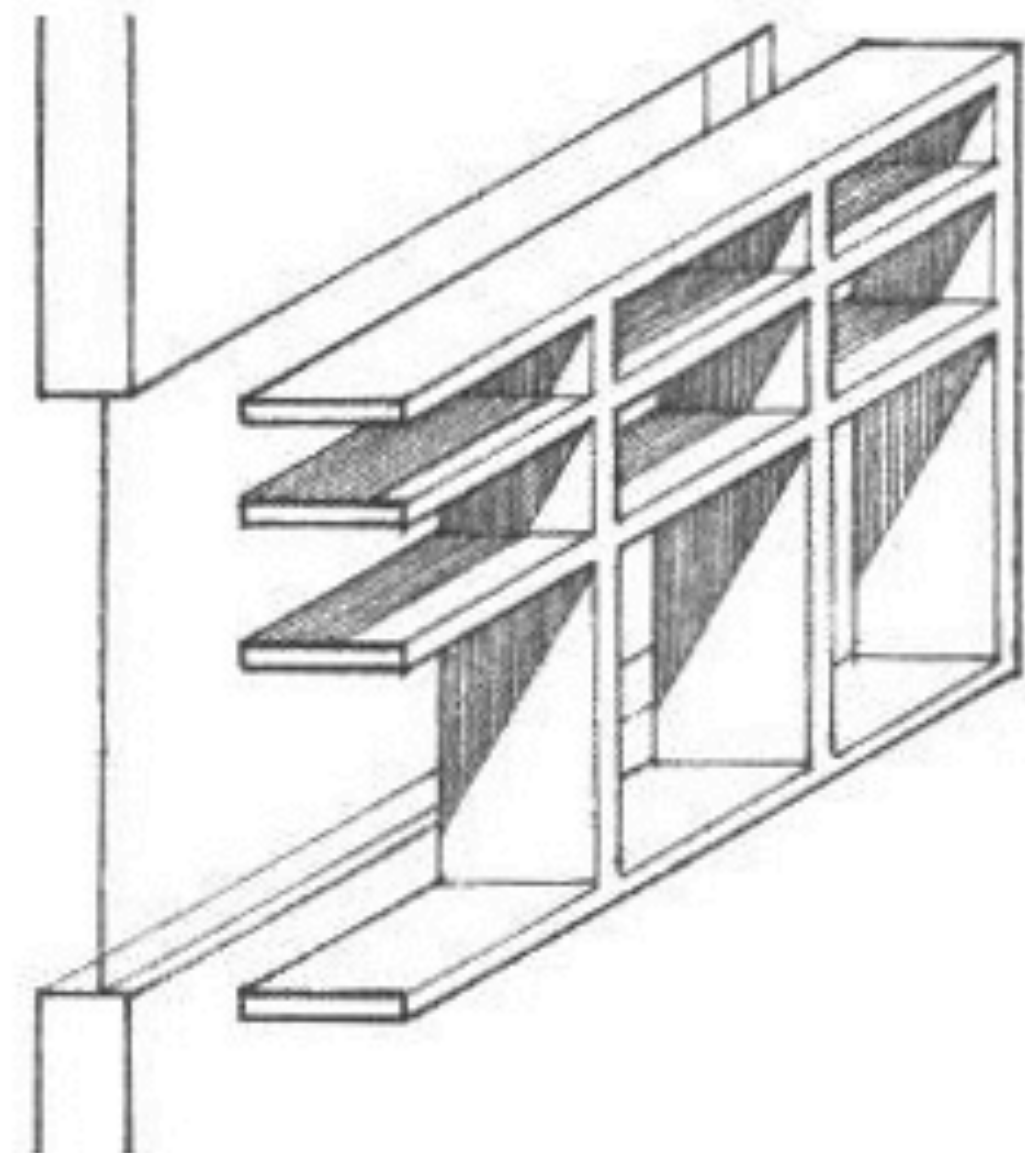
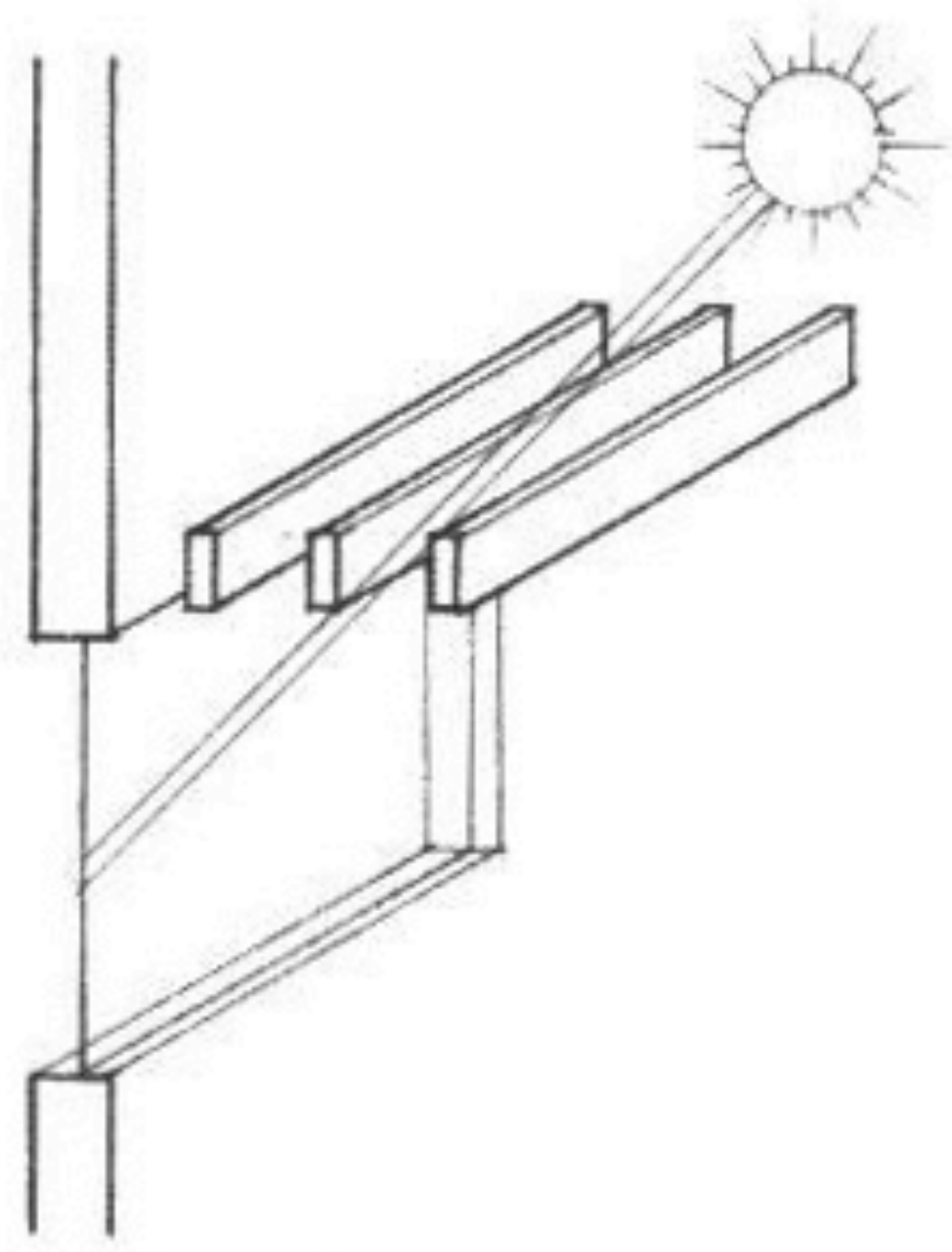
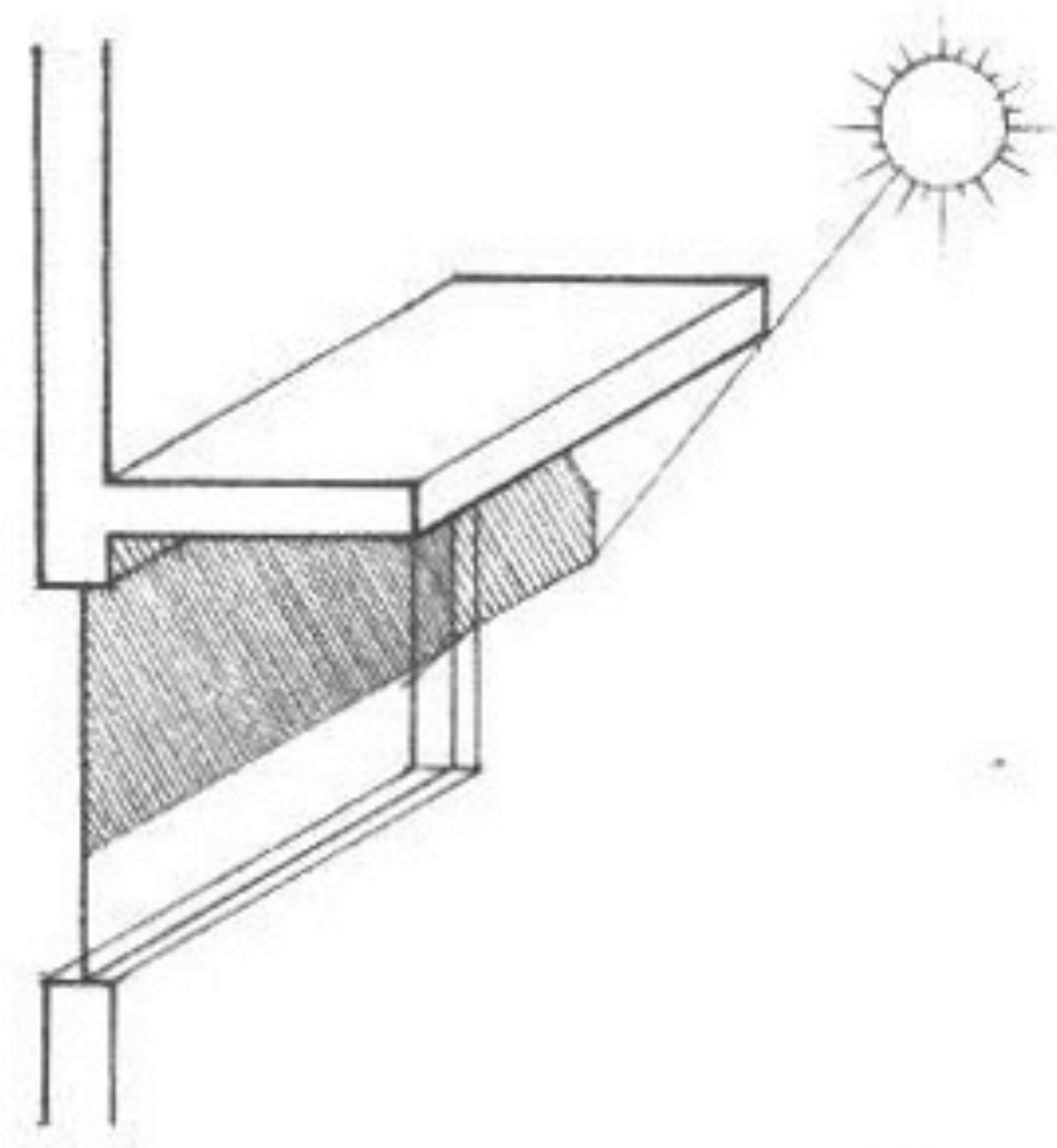
11



Source: Choisy, Auguste. "Architecture Grecque." In *Histoire de l'architecture*. Vol 1. G. Baranger, 1899. This work is in the public domain.

**Solar Shading (section bias)**

Francis Ching



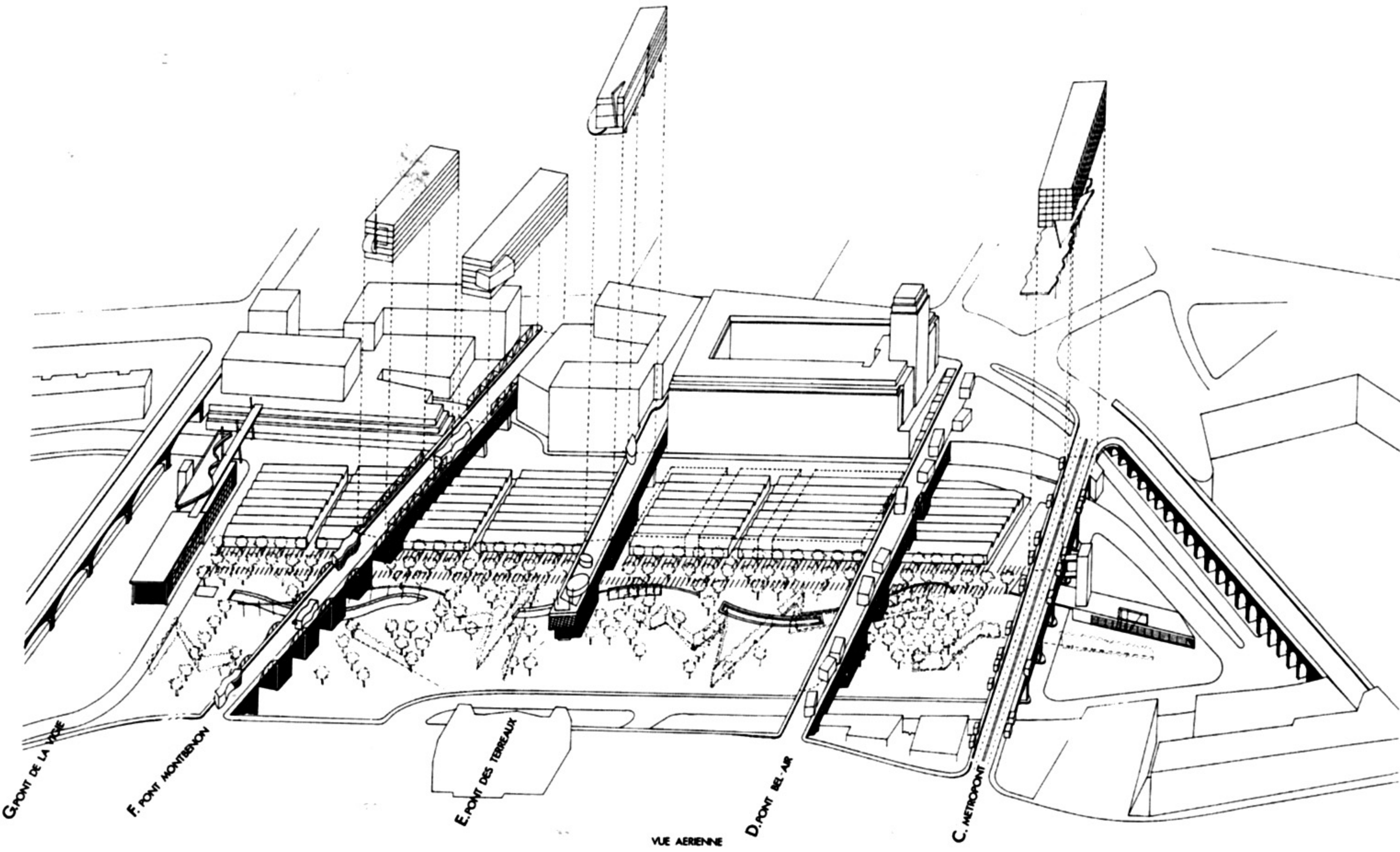
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Source: Ching, Francis D. K. "1.18 Solar Shading." In *Building Construction Illustrated*. 4th ed. John Wiley & Sons, Inc., 2008. ISBN: 9780470087817.

**Intermodal Station**

Bernard Tschumi

1988-2001

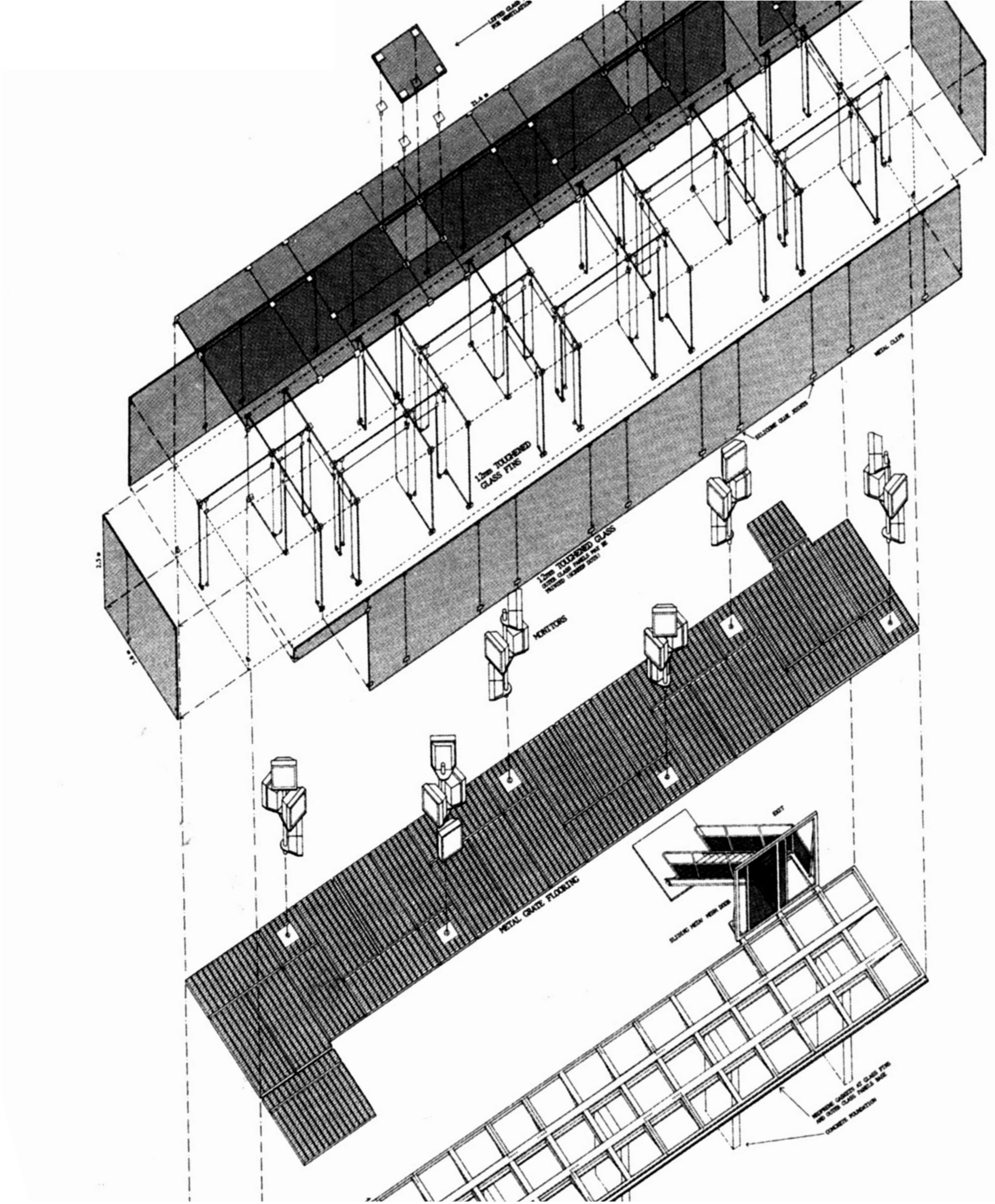


Courtesy of Bernard Tschumi Architects (Alison McIlvride). Used with permission.

**Glass Video Gallery**

Bernard Tschumi

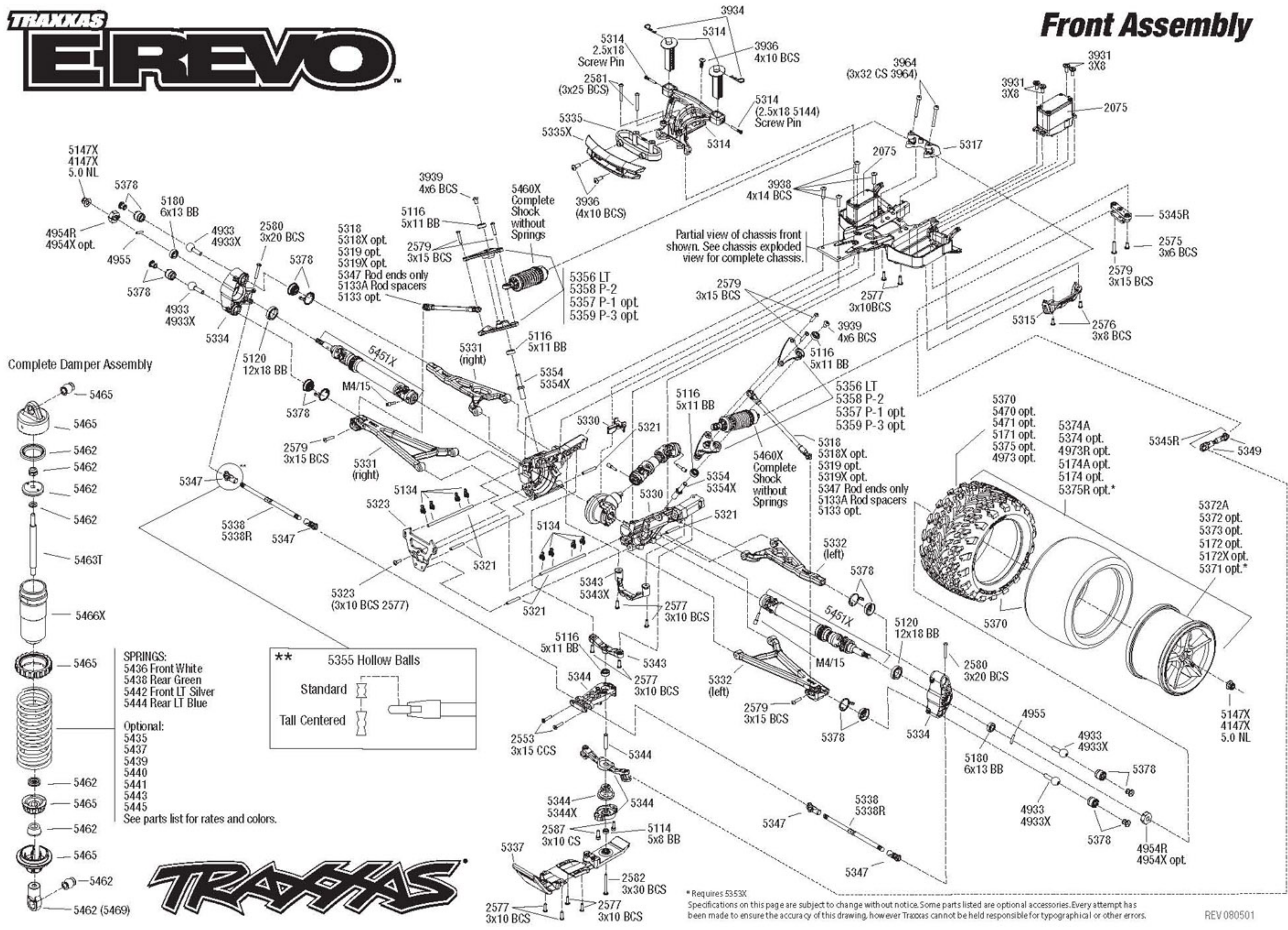
1990



Courtesy of Bernard Tschumi Architects (Alison McIlvride). Used with permission.

# TRAXXAS EREVO

## Front Assembly





# ***Kash Villa***

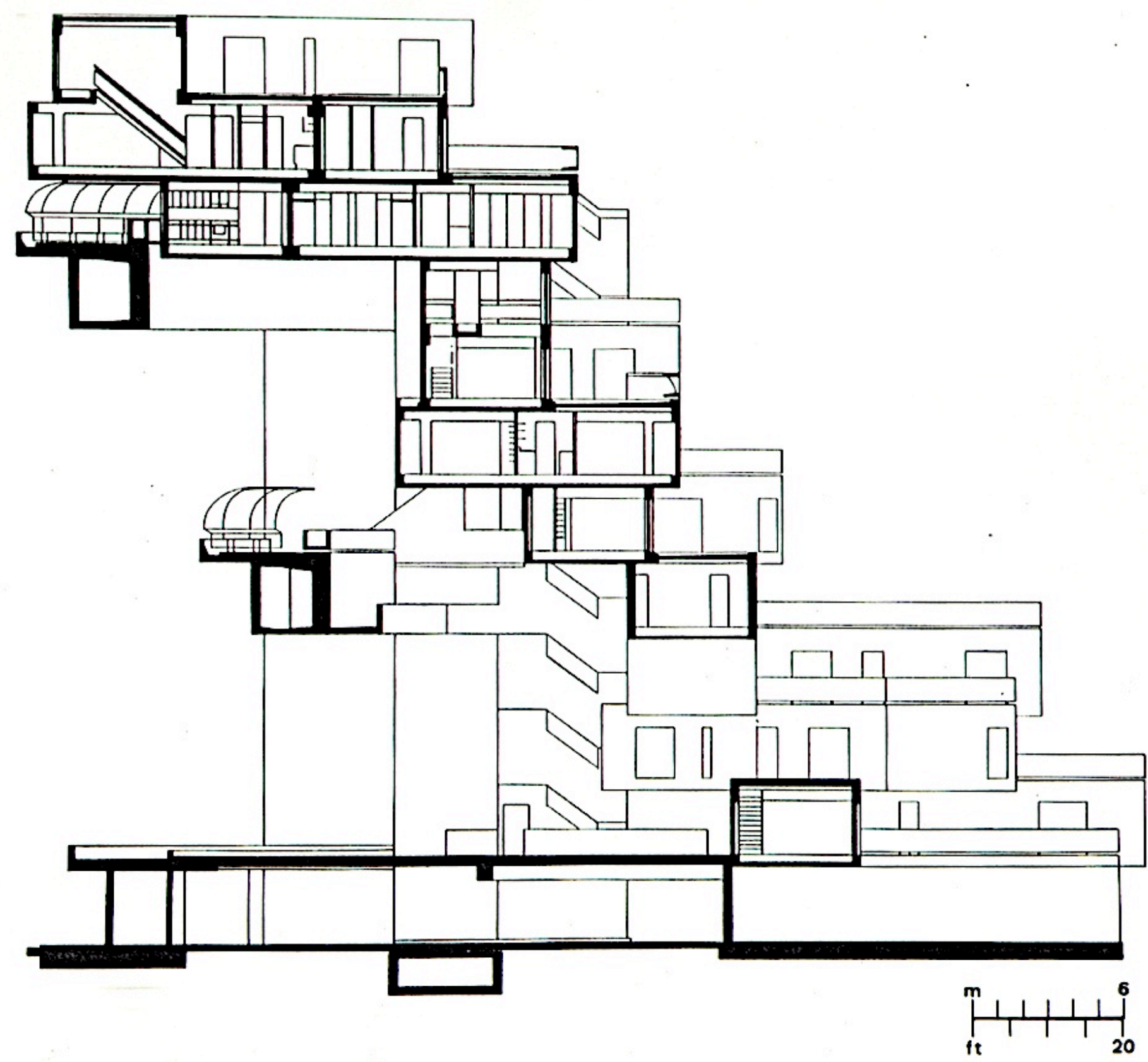
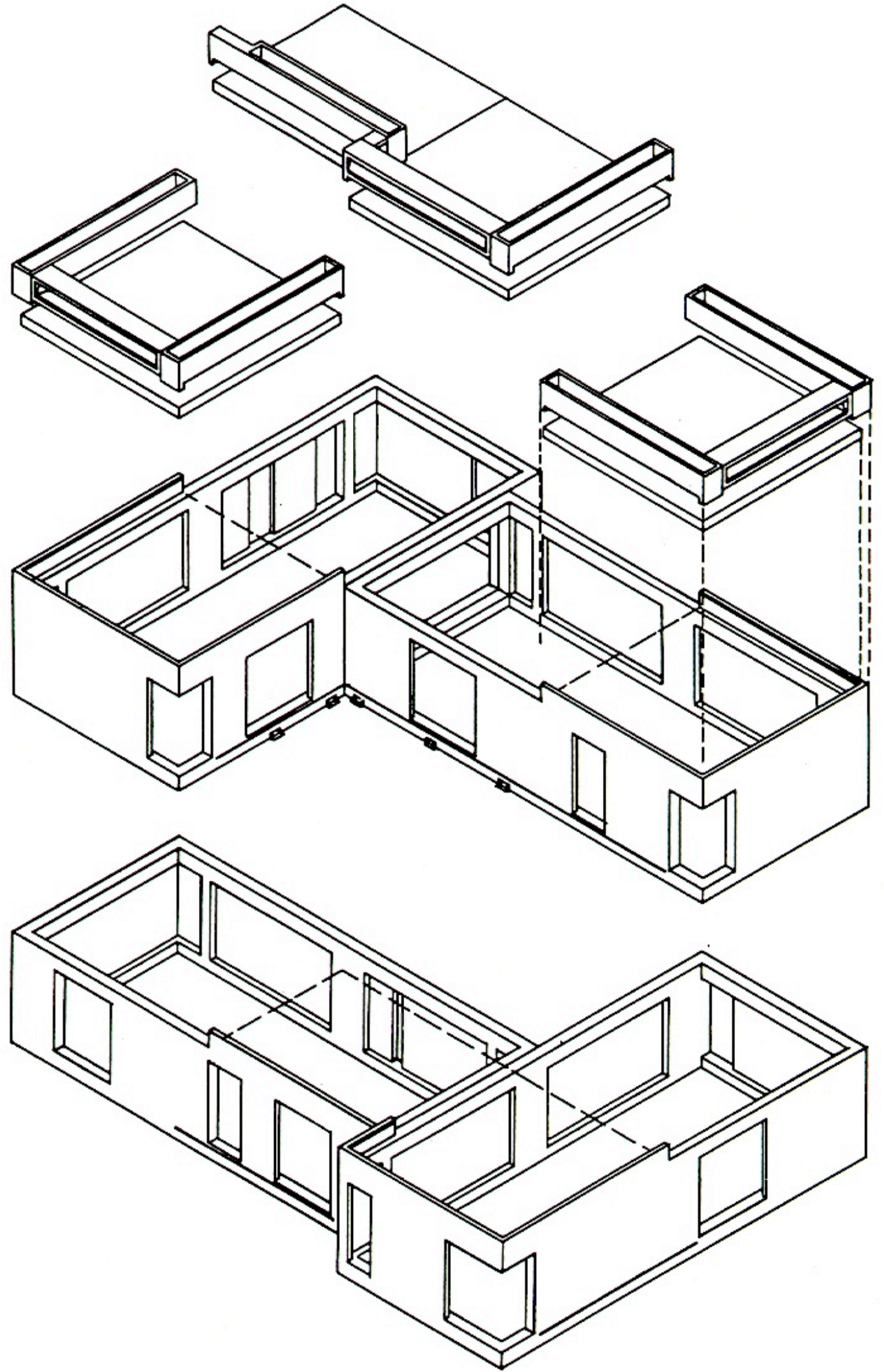
Hariri + Hariri

1989

Exploded axonometric drawing of Kash Villa removed due to copyright restrictions.



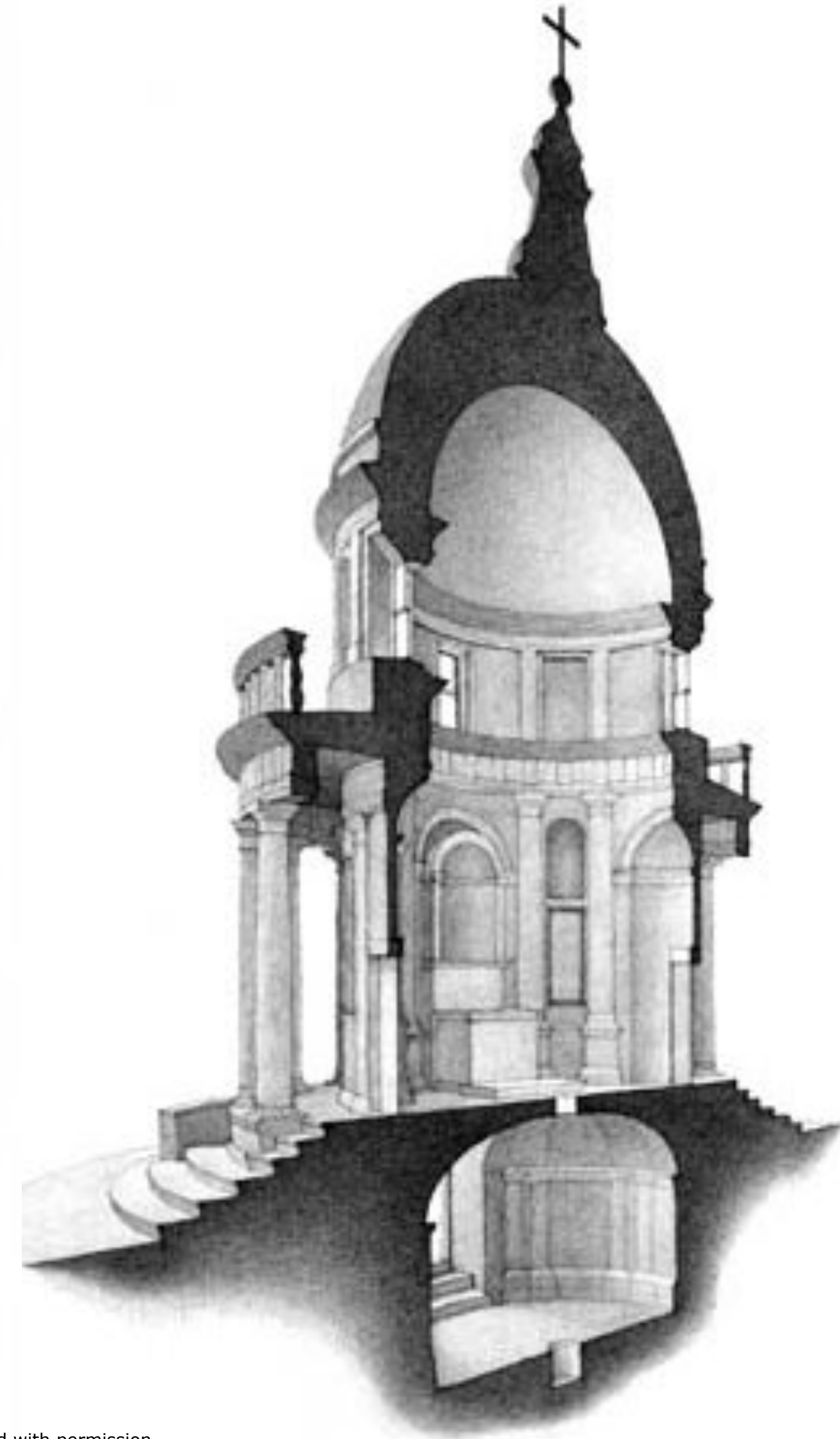
**Habitat '67**  
Moshe Safdie  
1967



Courtesy of Safdie Architects. Used with permission.

***Bramante's Tempietto in Rome***

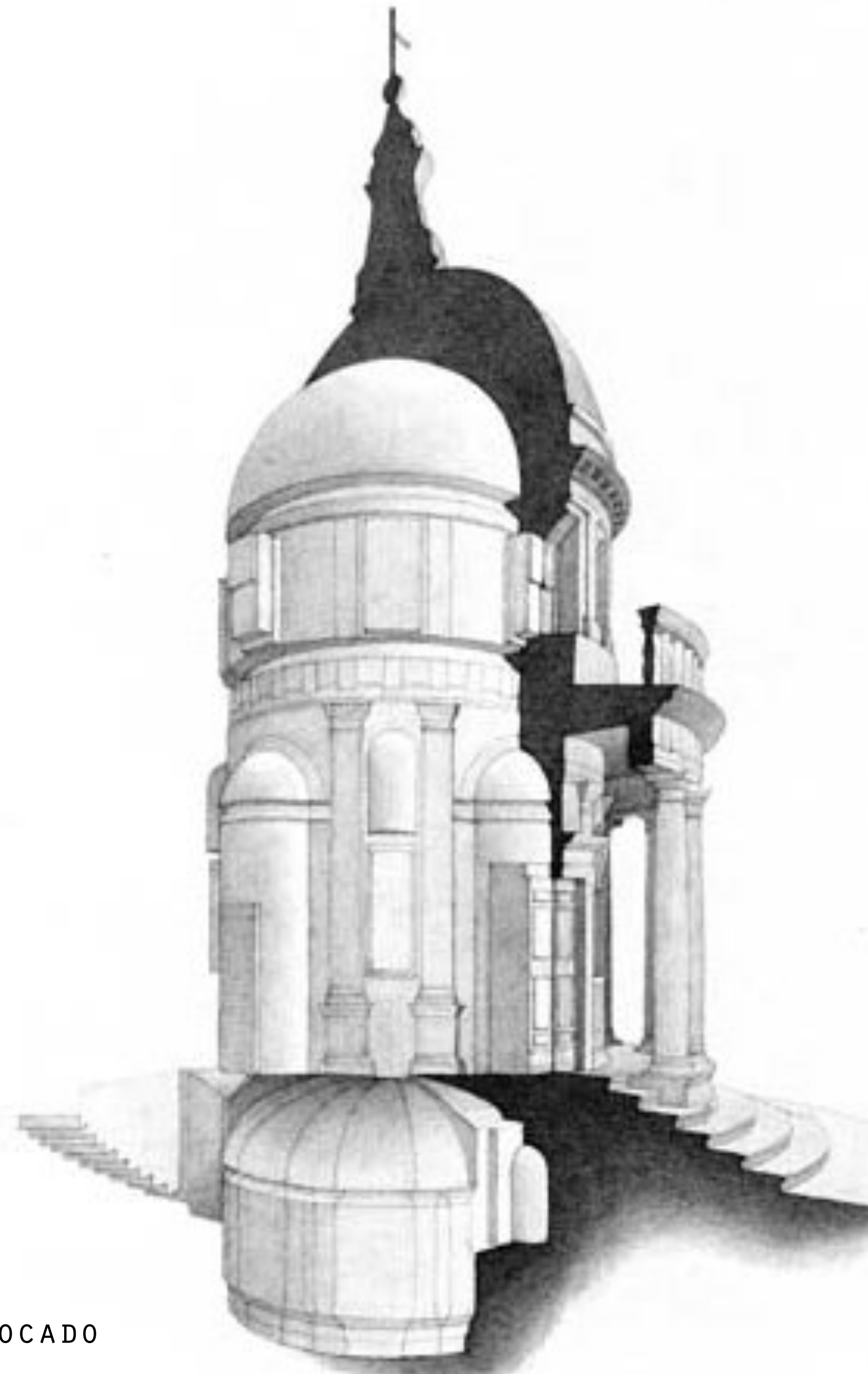
Daniel Castor



Courtesy of Daniel Castor. Used with permission.

***Bramante's Tempietto in Rome***

Daniel Castor



AVOCADO



JELLYFISH

Courtesy of Daniel Castor. Used with permission.



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4.105 Geometric Disciplines and Architecture Skills: Reciprocal Methodologies  
Fall 2012

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