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DRAWING ARCHITECTURE'S MASTERPIECES

ARCHITECTURAL ANALYSIS THROUGH DRAWING

COVADONGA LORENZO-CUEVA

UNIVERSIDAD SAN PABLO-CEU, CEU UNIVERSITIES



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DIBUJANDO OBRAS MAESTRAS DE LA ARQUITECTURA

ANÁLISIS ARQUITECTÓNICO A TRAVÉS DEL DIBUJO

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Drawing Architecture's Masterpieces.
Architectural Analysis Through Drawing.

Dibujando obras maestras de la Arquitectura.
Análisis arquitectónico a través del Dibujo

I would like to extend my heartfelt thanks to all the students enrolled in the Architectural Drawing courses of the Degree in Architecture at San Pablo-CEU University (Institute of Technology) for their dedication, enthusiasm, and hard work.

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Me gustaría expresar mi más sincero agradecimiento a los estudiantes de Dibujo Arquitectónico del Grado en Arquitectura de la Universidad San Pablo-CEU (Escuela Politécnica Superior) por su dedicación, entusiasmo y esfuerzo.

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Architectural Analysis Through Drawing. *Análisis arquitectónico a través del Dibujo*

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Jorge Massagués .....

Sofía Villamandos .....

Vanessa Larsson .....

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Yago Valdés .....

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Claudia Pérez Castilla .....

Pedro León .....

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Carre D'Art (Centro de Arte) Nimes, France. Foster & Partners

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Adriana Sánchez Jeréz .....

Álvaro Hurtado

Silvia Medina .....

Marina Fernández .....

Phillips Exeter Library (Biblioteca Phillips Exeter), New Hampshire, USA. Louis Kahn

Enrique San José .....

Paulina Forero .....

Valentina Camarra .....

Pilar Manzano .....

ARCHITECTURAL ANALYSIS THROUGH DRAWING

ANÁLISIS ARQUITECTÓNICO A TRAVÉS DEL DIBUJO

Drawing Architecture's Masterpieces.
Architectural Analysis Through Drawing.

Dibujando obras maestras de la Arquitectura.
Análisis arquitectónico a través del Dibujo

Covadonga Lorenzo-Cueva

Architectural drawing allows us to inhabit, for a few hours, the work we are representing and to engage in a dialogue with the architect who conceived it. Through drawing, a building ceases to be something we simply contemplate and becomes something we begin to understand. Each line becomes an opportunity to approach the intentions that gave shape to the work.
Drawing is not merely a means of representation. It is a way of thinking, observing, and discovering architecture with rigor and sensitivity. It means pausing to observe an architectural work in order to discover its geometry, proportions, structure, the spaces that compose it, and the relationships between its elements. It is a journey of discovery through graphic representation, a path that requires patience, precision, and a particular way of observing.

This book brings together a selection of drawings produced by students of Architectural Drawing in the Master Degree in Architecture at the Escuela Politécnica Superior of San Pablo-CEU University. These drawings analyze and study major works of architecture designed by masters of the Modern Movement such as Louis Kahn, Le Corbusier, Giuseppe Terragni, Walter Gropius, Erich Mendelsohn, and Paul Rudolph, as well as contemporary architects such as Renzo Piano, Norman Foster, Rem Koolhaas, Abalos & Herreros, and Javier Sáenz de Oiza.

El dibujo arquitectónico nos permite habitar durante unas horas, la obra que estamos representando y entablar así un diálogo con el arquitecto que la concibió. A través del dibujo, la arquitectura deja de ser algo que simplemente contemplamos para convertirse en algo que empezamos a aprehender. Así, cada línea se convierte en una oportunidad para aproximarnos a las intenciones de quienes la concibieron.
Dibujar no es únicamente un medio de representación; es una forma de pensar, de observar y de descubrir la arquitectura con rigor y sensibilidad. Supone detenerse a observar la obra arquitectónica para descubrir su geometría, sus proporciones, su estructura, los espacios que la conforman y las relaciones entre sus elementos. Es un viaje de descubrimiento a través de la representación, un camino que exige paciencia, precisión y una forma particular de observar.

Este libro reúne una selección de dibujos realizados por alumnos de Dibujo Arquitectónico del Grado en Arquitectura de la Escuela Politécnica Superior de la Universidad San Pablo-CEU, que analizan y estudian grandes obras de la arquitectura proyectadas por maestros del Movimiento Moderno como Louis Kahn, Le Corbusier, Giuseppe Terragni, Walter Gropius, Erich Mendelsohn o Paul Rudolph, así como arquitectos de la contemporaneidad como Renzo Piano, Norman Foster, Rem Koolhaas, Abalos & Herreros o Javier Sáenz de Oiza.

Their buildings belong to different periods, contexts, and architectural approaches, yet they are extraordinary examples through which to learn about universal concepts such as space, form, structure, material, space, and the light.

Through architectural drawings we analyze the relationships between spaces, scale, rhythm, proportions, uses, light and the structure inherent in each work. Drawing is learning to observe. Careful observation reveals aspects of architecture that may remain hidden unless one examines in detail the alignment of structural elements, the relationship between solid and void, or the way light enters a space.

Each of the drawings presented here invites us to engage in a dialogue with the work it represents, transforming the act of representation into a patient process of discovery. At the same time, they invite us to rediscover the pleasure of learning through observation; to devote time to engaging in that silent dialogue that emerges between the person who draws, the architect and the architecture that is the object of our interest.

Sus obras pertenecen a épocas, contextos y planteamientos diferentes, pero son extraordinarios ejemplos para aprender sobre conceptos universales cono el espacio, la forma, la estructura, la materia, el espacio o la luz.

A través del dibujo arquitectónico analizamos la relación entre los espacios, la medida, el ritmo, las proporciones, la organización funcional y la estructura inherente a cada obra. Dibujar es aprender a observar. Una observación atenta revela aspectos que pueden permanecer ocultos si no se analiza en detalle el ritmo estructural, la relación entre lleno y vacío o la incidencia de la luz en un espacio.

Cada uno de los dibujos presentados aquí nos invita a dialogar con la obra que representa, transformando el acto de dibujar en un proceso paciente de descubrimiento y a la vez, son una invitación a redescubrir el placer de aprender mediante la observación; a dedicar tiempo a entablar ese diálogo silencioso que surge entre la persona que dibuja, el arquitecto y la arquitectura objeto de nuestro interés.

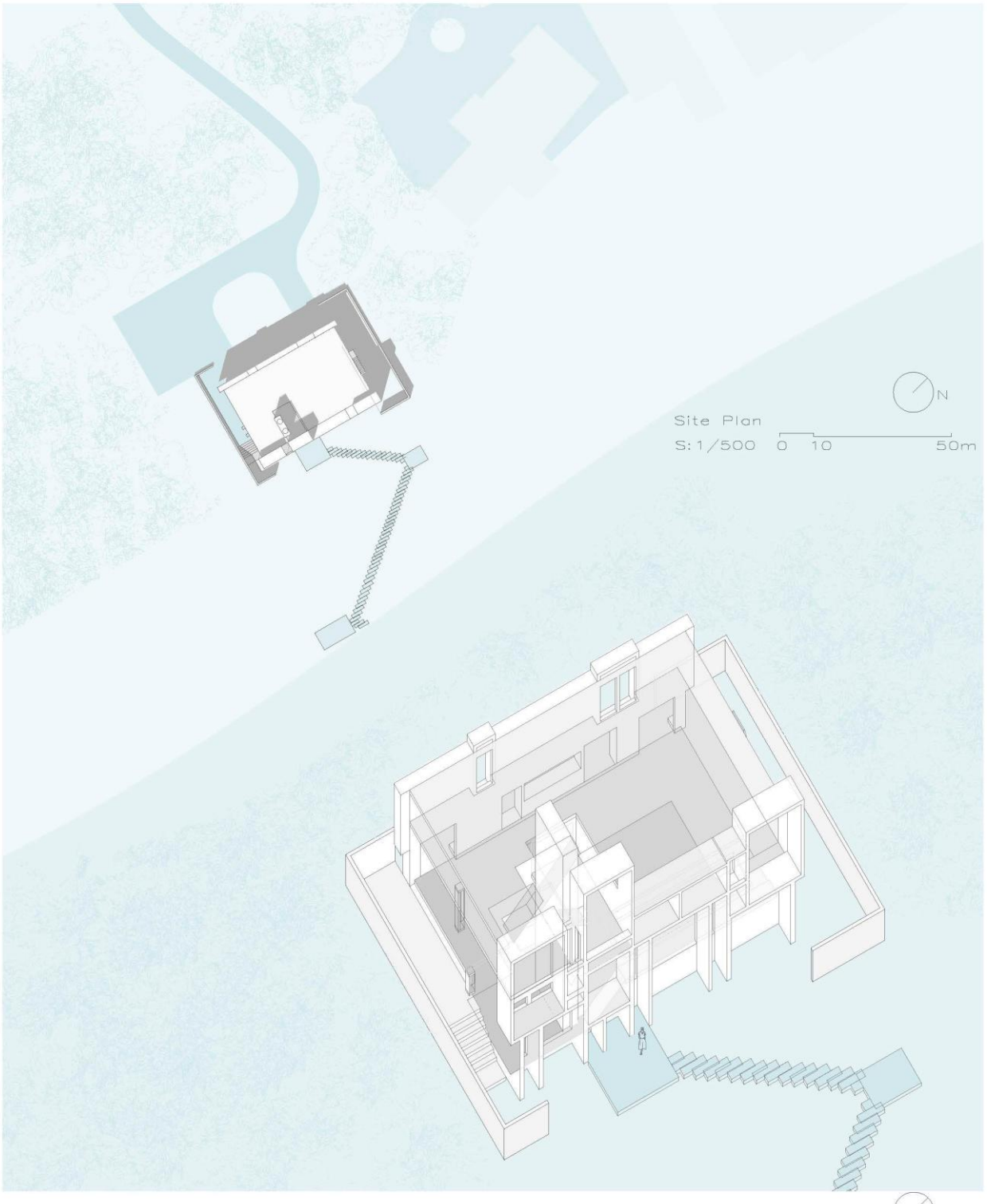
Universidad San Pablo-CEU, CEU Universities

DRAWING ARCHITECTURE'S MASTERPIECES

DIBUJANDO OBRAS MAESTRAS DE LA ARQUITECTURA

Milan House (Casa Milan), Florida, USA.

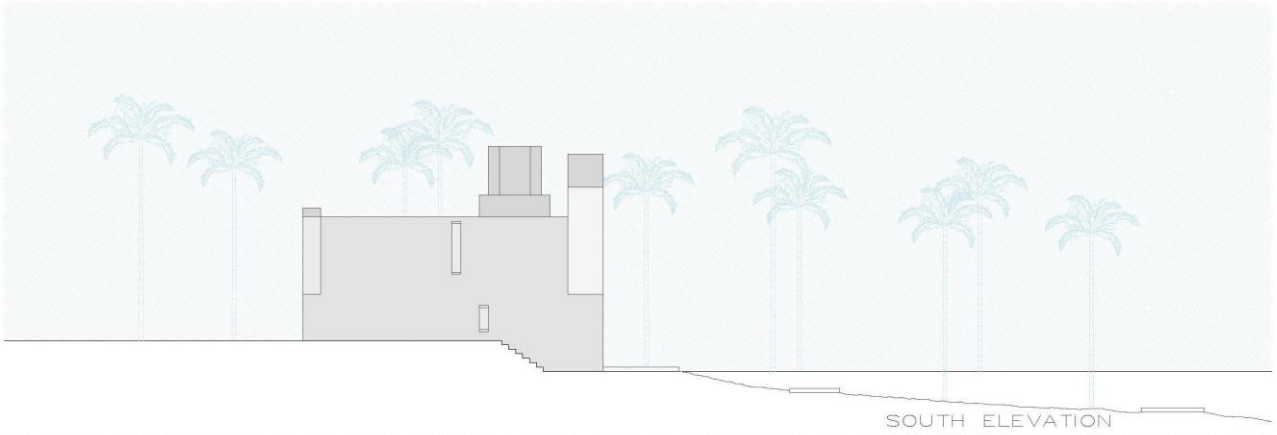
Paul Rudolph



MILAM HOUSE

PONTE VERDE BEACH, JACKSONVILLE, FLORIDA, USA.
PAUL RUDOLPH, 1959–1961

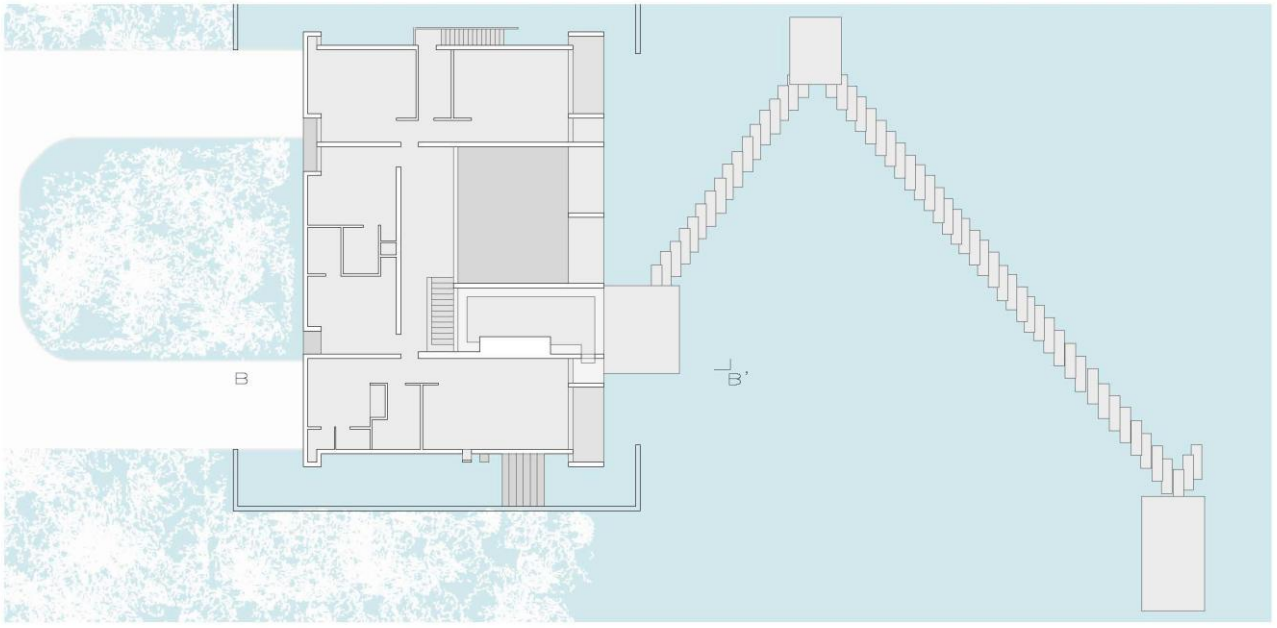
BEATRIZ MUNIZ GUSMAO G201



SOUTH ELEVATION



SECTION BB'



MILAM HOUSE

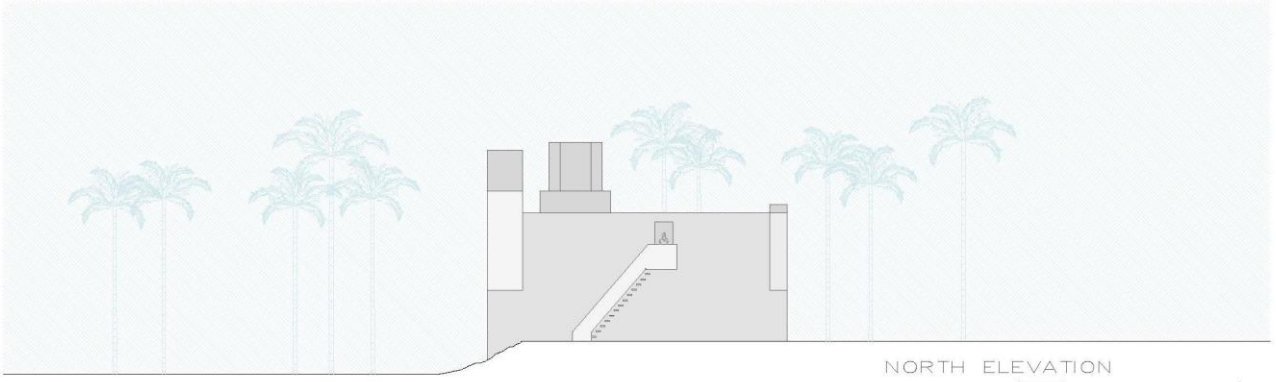
PONTE VERDE BEACH, JACKSONVILLE, FLORIDA, USA.
PAUL RUDOLPH, 1959–1961

FIRST FLOOR

N

S: 1/200 0 2 10m

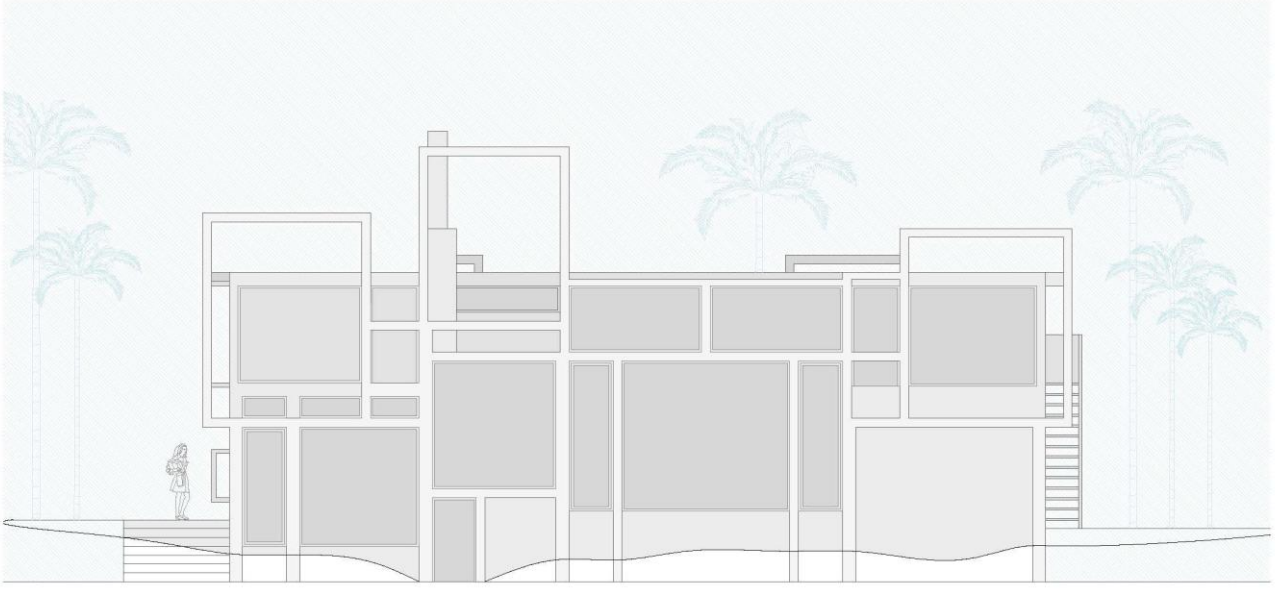
BEATRIZ MUNIZ GUSMAO G201



NORTH ELEVATION
S:1/200 0 2 10m



WEST ELEVATION
S:1/200 0 2 10m

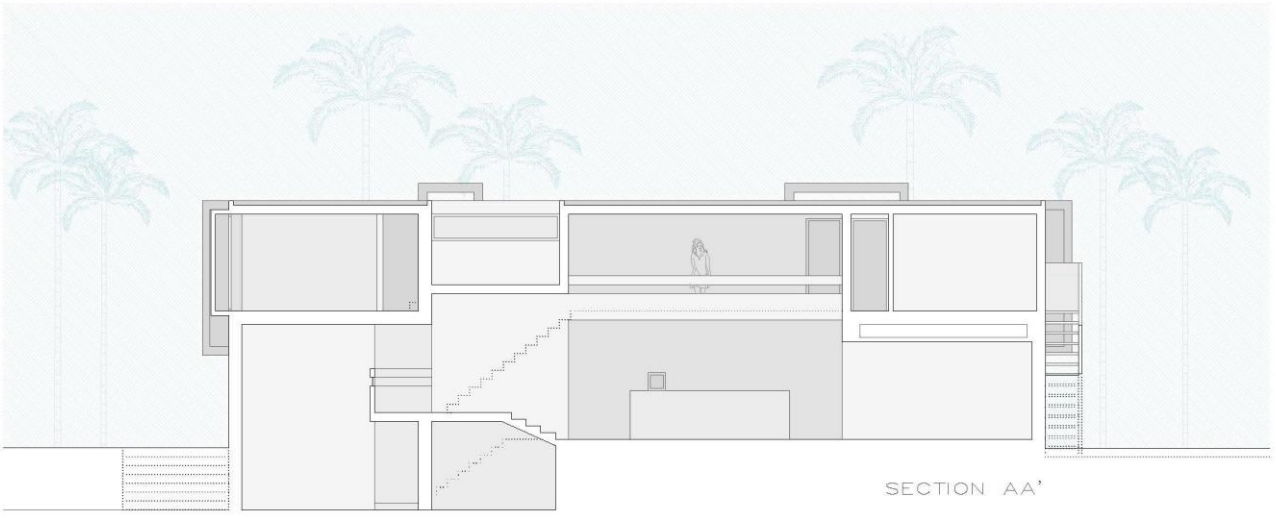


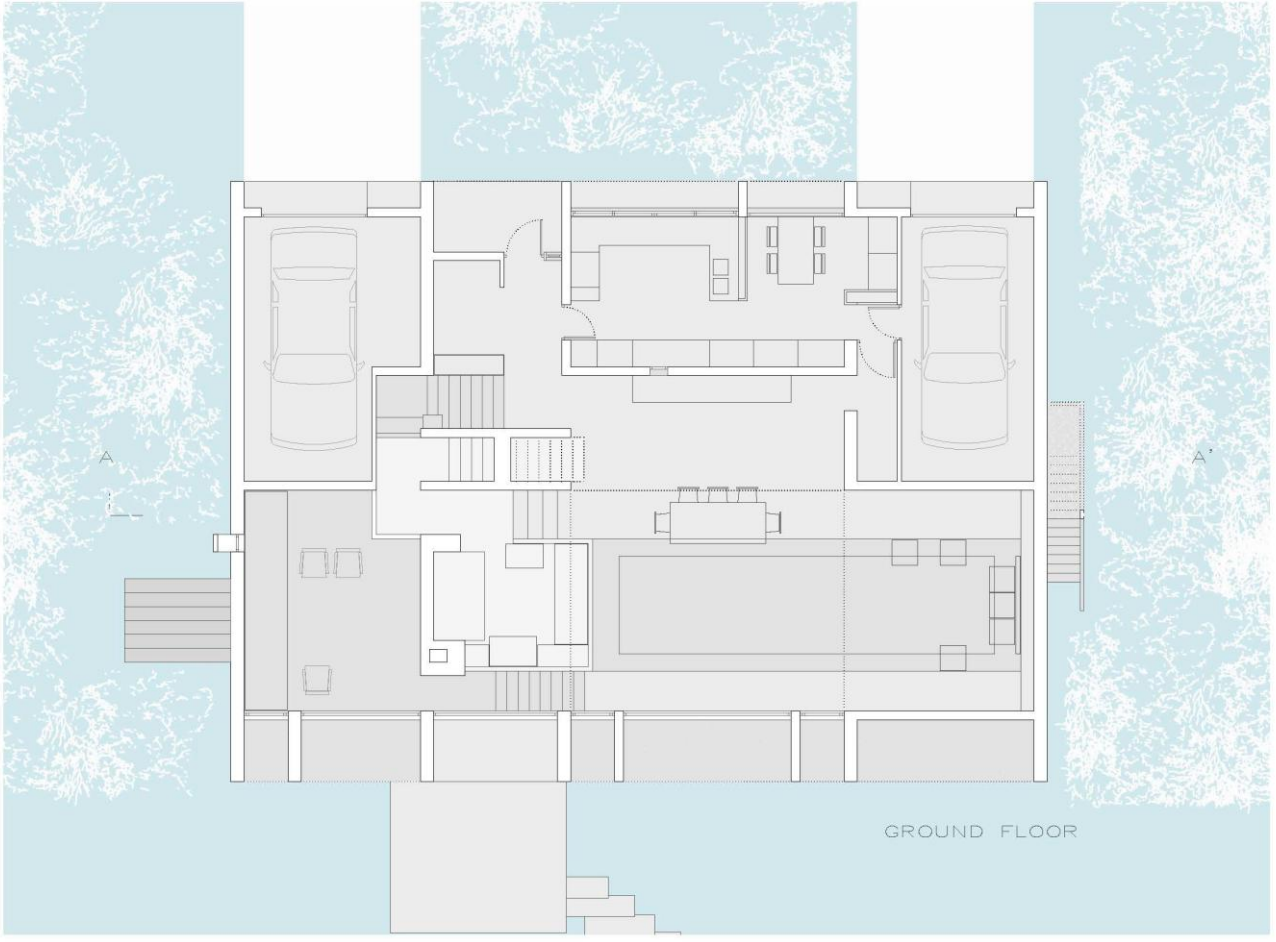
EAST ELEVATION
S:1/100 0 1 5m

MILAM HOUSE

PONTE VERDE BEACH, JACKSONVILLE, FLORIDA, USA.
PAUL RUDOLPH, 1959–1961

BEATRIZ MUNIZ GUSMAO G201





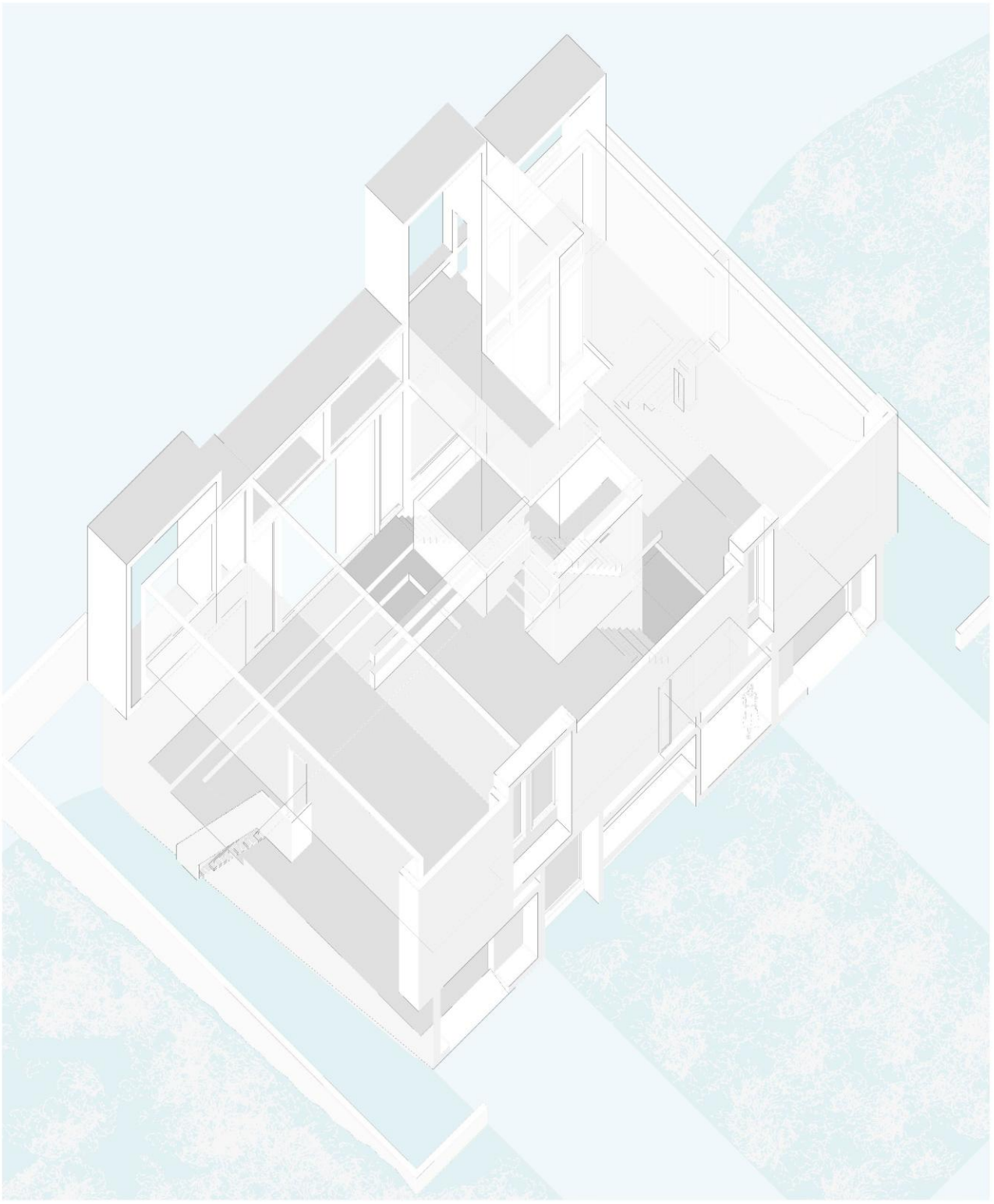
MILAM HOUSE

PONTE VERDE BEACH, JACKSONVILLE, FLORIDA, USA.
PAUL RUDOLPH, 1959–1961

N

S: 1/100 0 1 5m

BEATRIZ MUNIZ GUSMAO G201

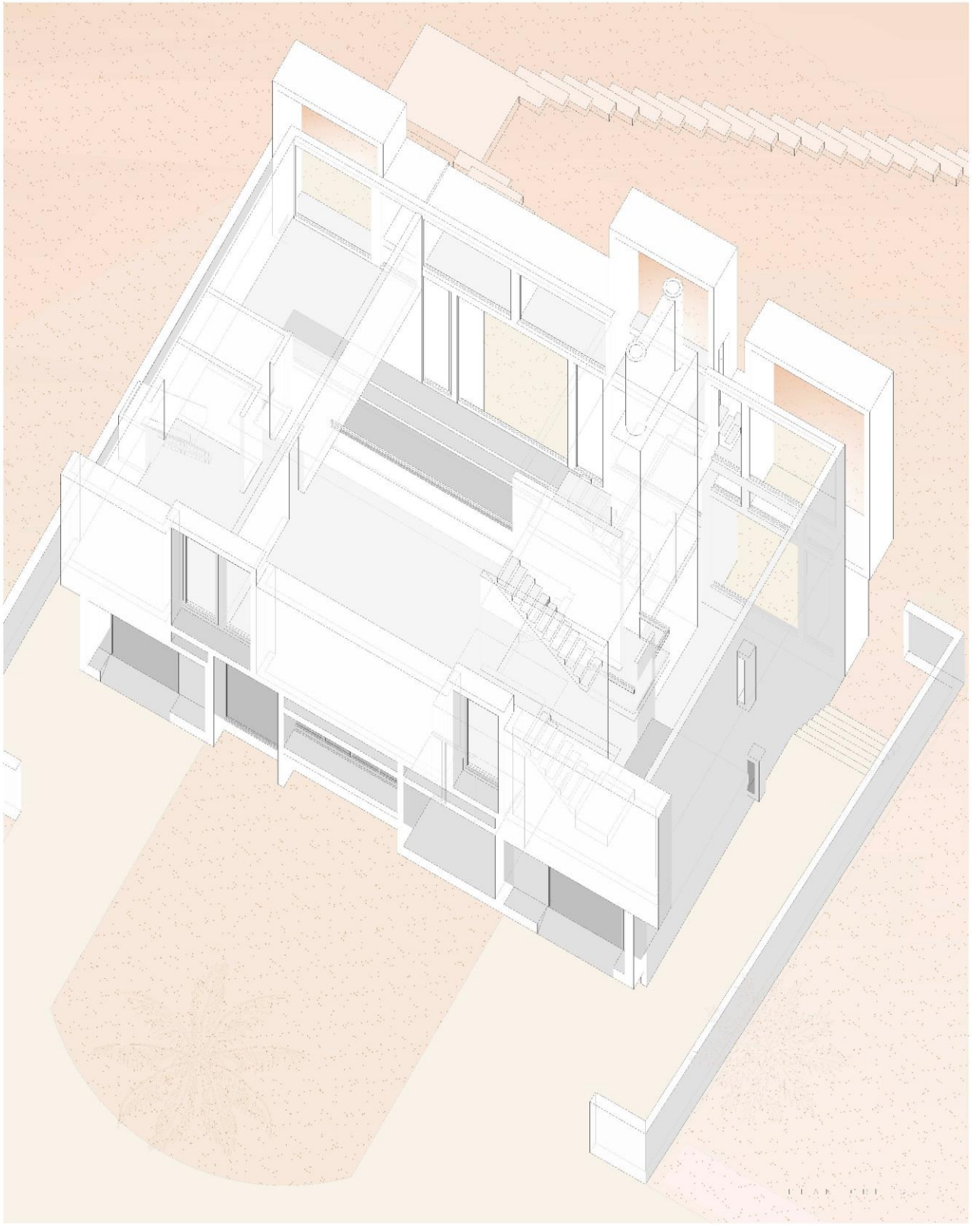


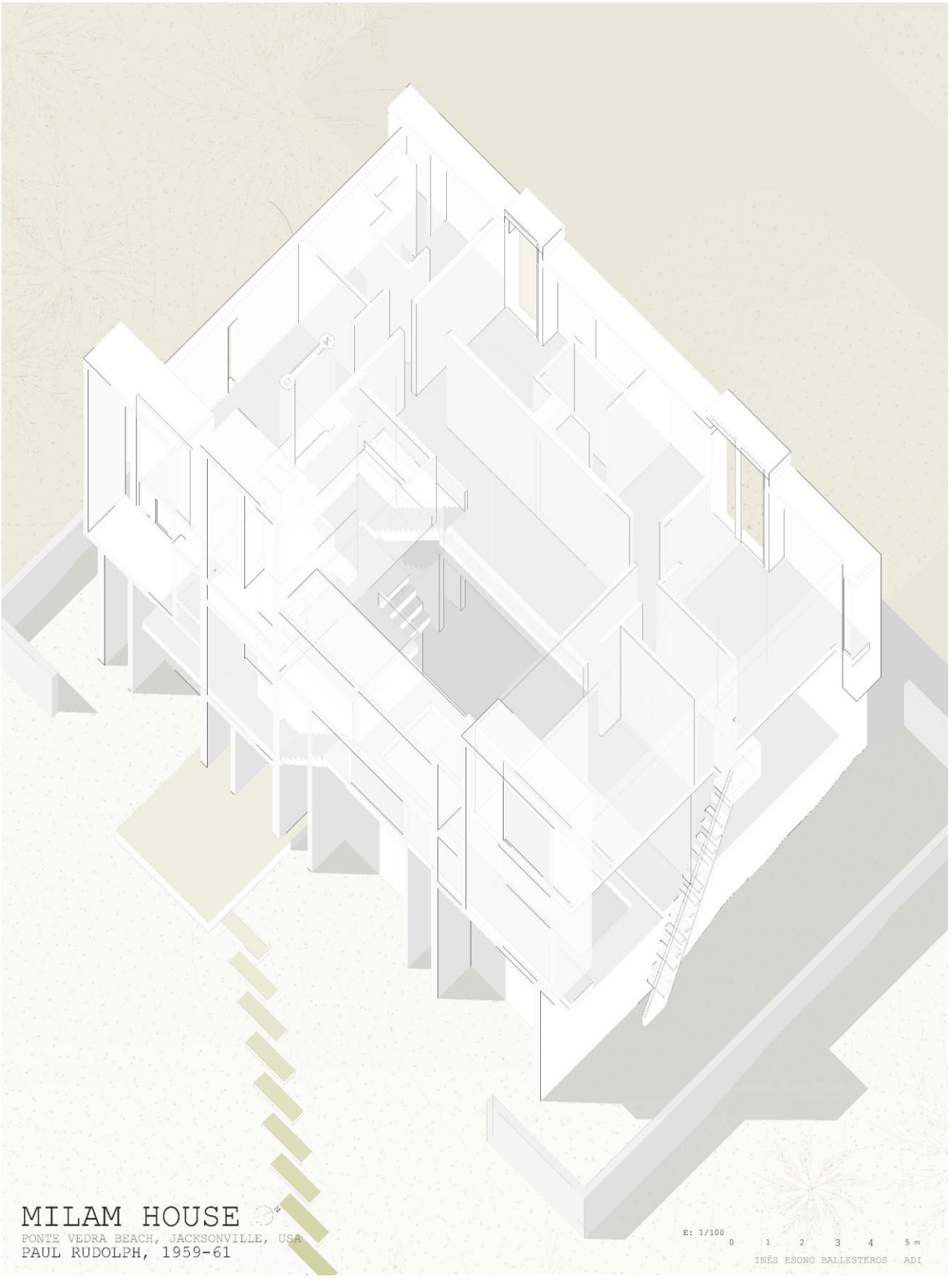
VILAM HOUSE

PONTE VERDE BEACH, JACKSONVILLE, FLORIDA, USA.
PAUL RUDOLPH 1958-1961

EAST ELEVATION
S:1/100 0 1 5m

BEA R.K MUNIZ GUSMAO G201

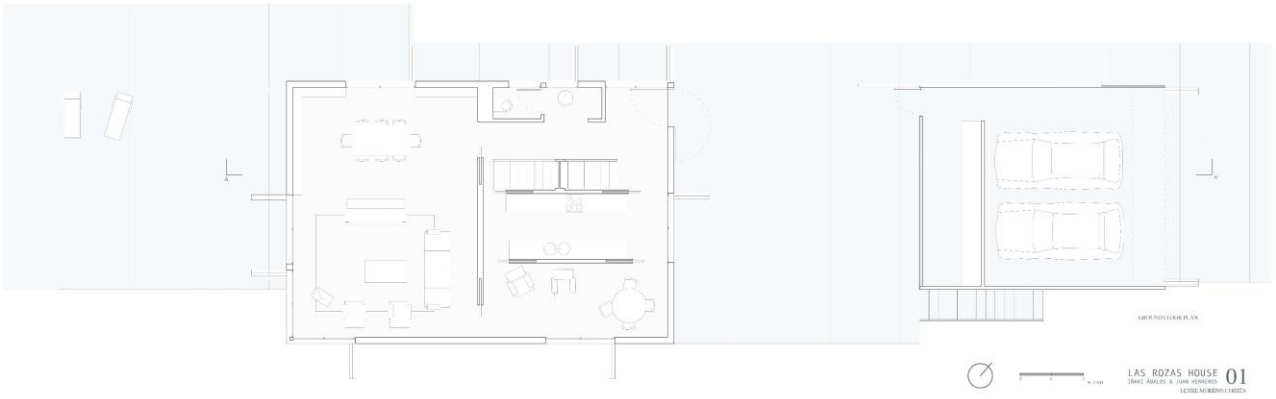



MILAM HOUSE
PONTE VEDRA BEACH, JACKSONVILLE, USA
PAUL RUDOLPH, 1959-61
E: 1/100
0 1 2 3 4 5 m
INÉS ESONO BALLESTEROS ADI

House in Las Rozas (Casa en Las Rozas), Madrid, Spain.

Abalos & Herreros

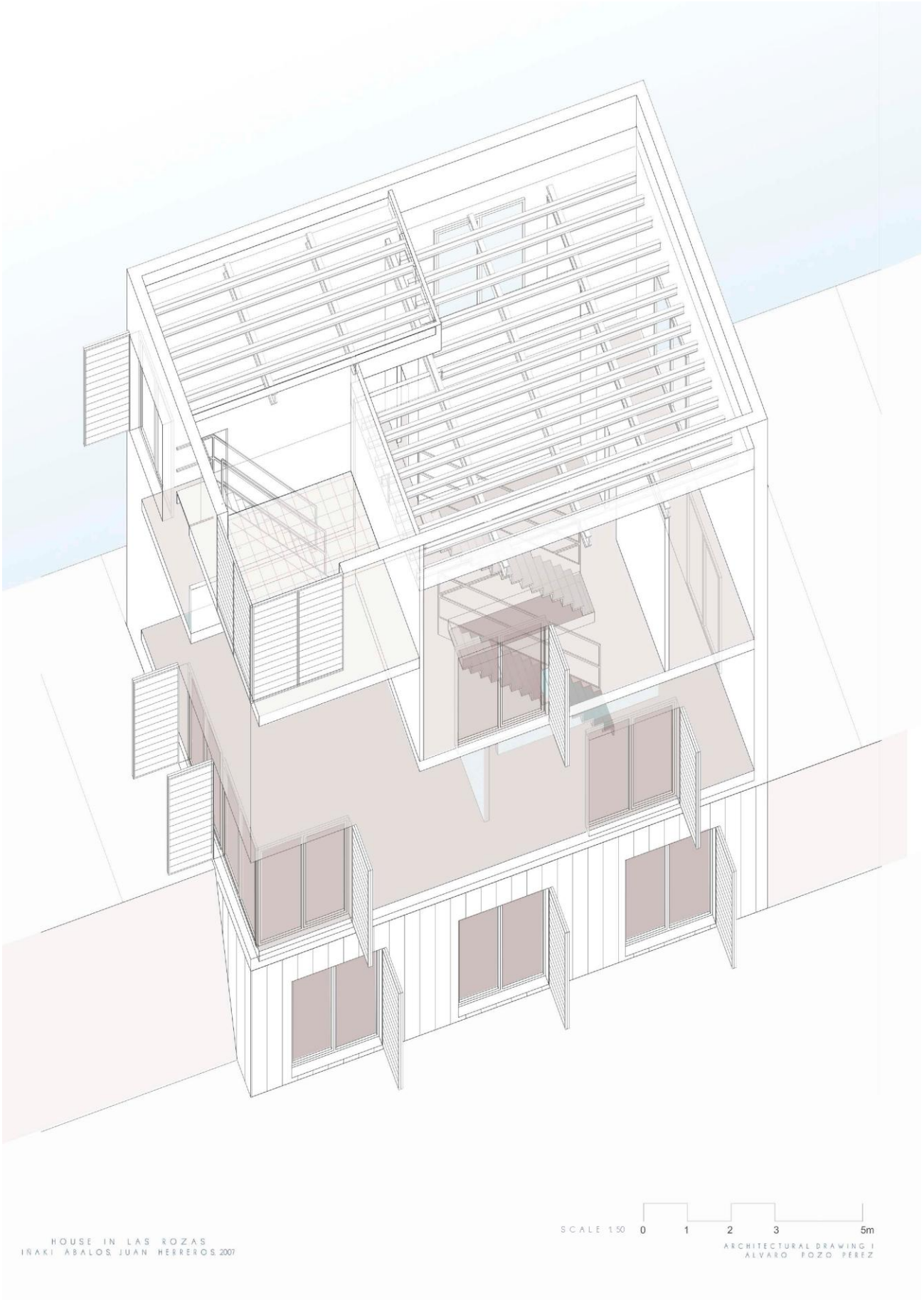




LAS ROZAS HOUSE 01



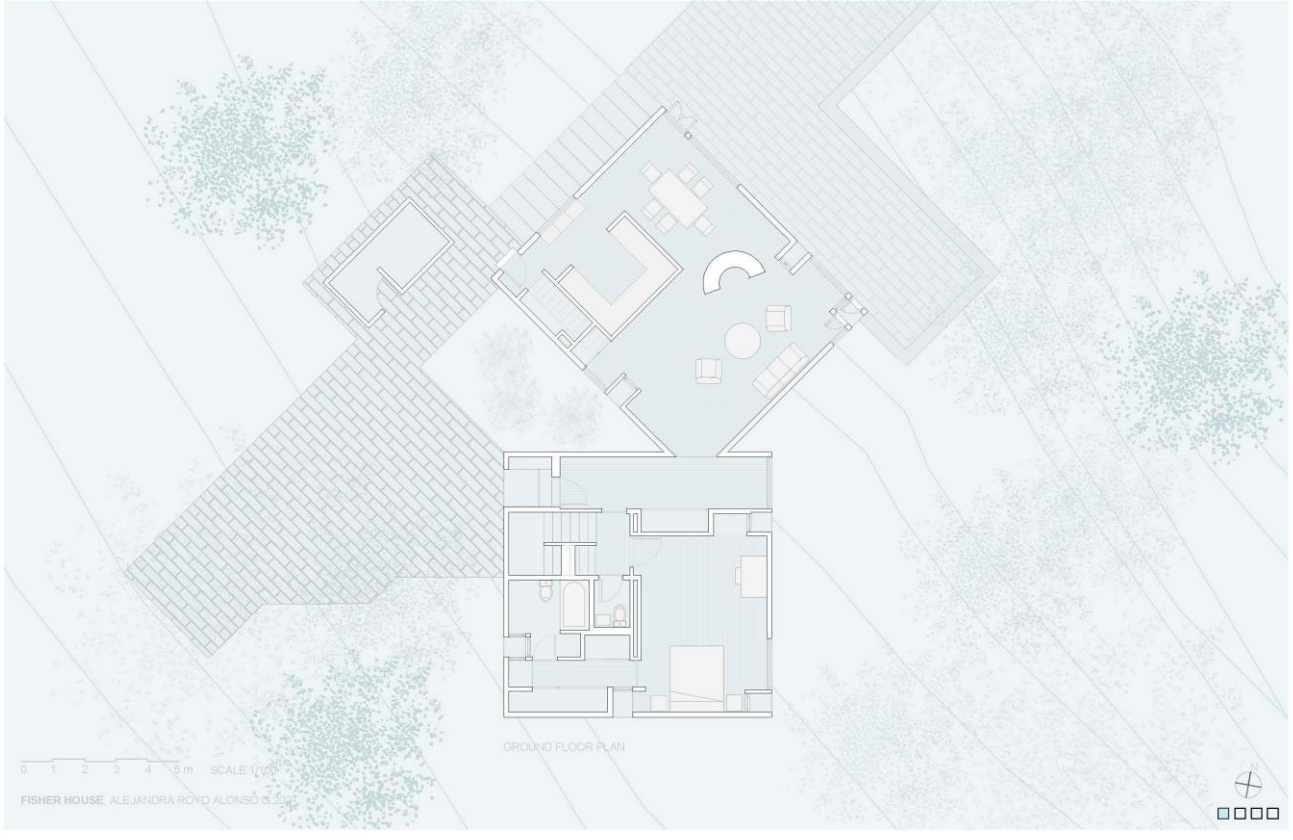
LAS ROZAS HOUSE 03


HOUSE IN LAS ROZAS
IÑAKI ÁBALOS, JUAN HERREROS, 2007
SCALE 1:50 0 1 2 3 5m
ARCHITECTURAL DRAWING I
ALVARO POZO PEREZ

Fisher House (Casa Fisher), Pennsylvania, USA.

Louis Kahn

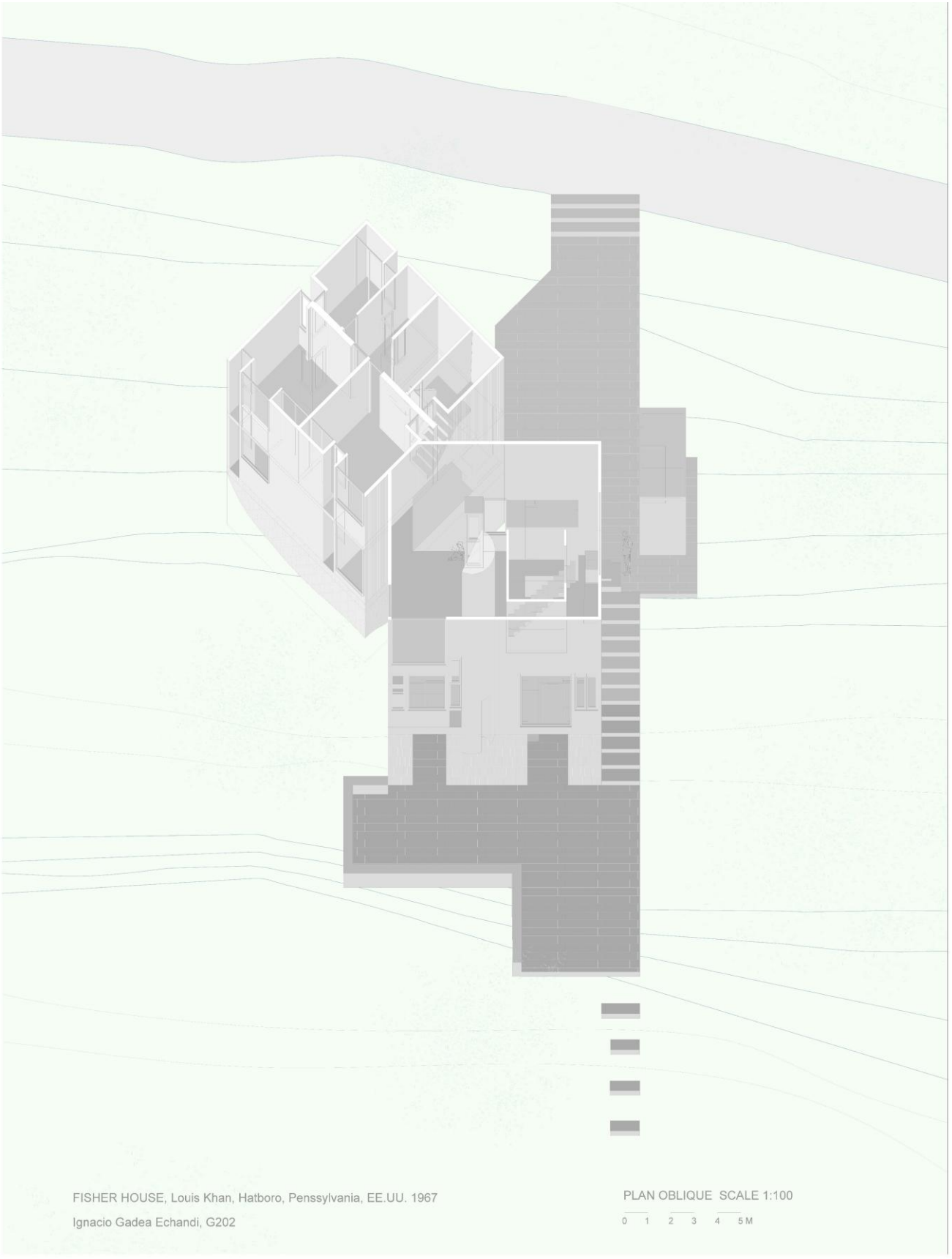

FIRST FLOOR PLAN
SITE PLAN SCALE 1/500
ELEVATION C
ELEVATION B
SCALE 1/200
FISHER HOUSE. ALEJANDRA ROYO ALONSO G.202


GROUND FLOOR PLAN
0 1 2 3 4 5 m SCALE 1/100
FISHER HOUSE. ALEJANDRA ROYO ALONSO G.202


FISHER HOUSE. LOUIS KHAN
MILITARY OBLIQUE
SCALE : 1/100

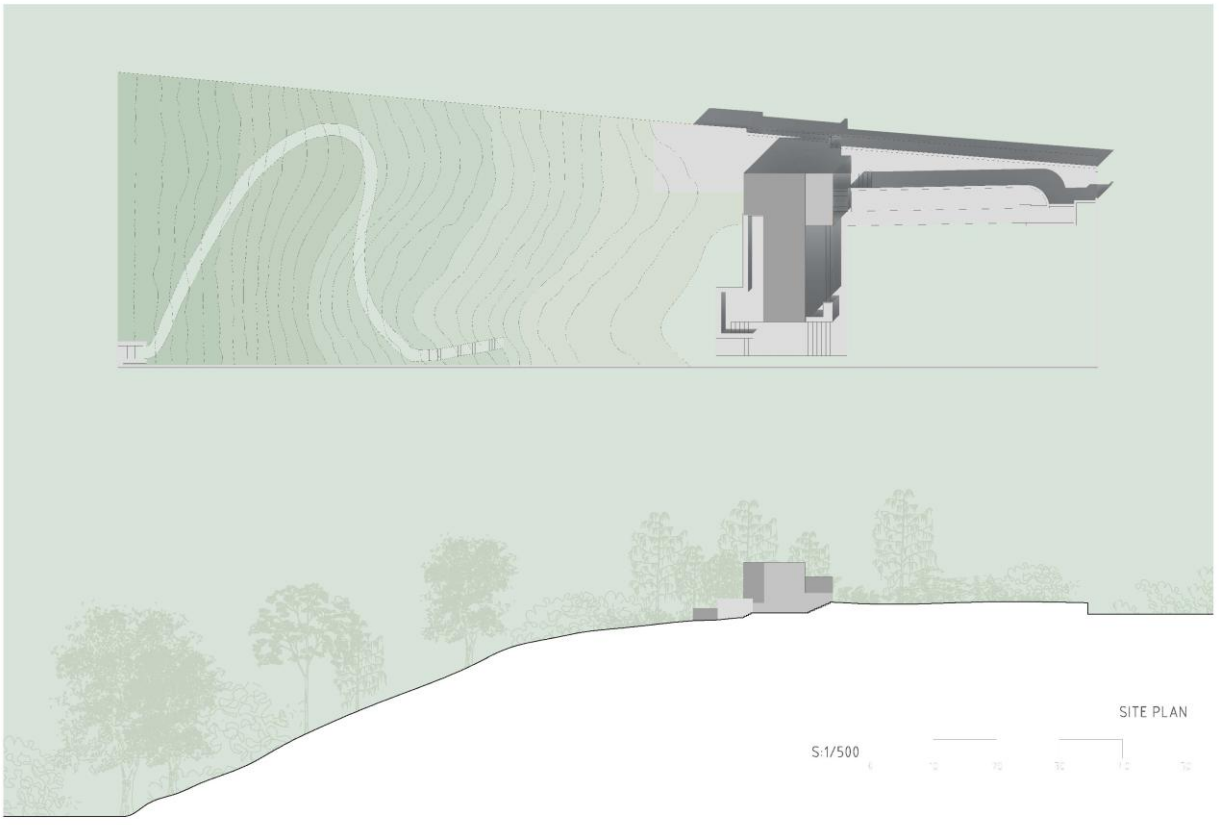

ELEVATION A
FISHER HOUSE, Louis Khan, Hatboro, Penssylvania, EE.UU. 1967
Ignacio Gadea Echandi, G202
ELEVATION A SCALE 1:100
0 1 2 3 4 5 M


FISHER HOUSE, Louis Khan, Hatboro, Penssylvania, EE.UU. 1967
Ignacio Gadea Echandi, G202
CC´SECTION SCALE 1:100
0 1 2 3 4 5 M


FISHER HOUSE, Louis Khan, Hatboro, Penssylvania, EE.UU. 1967
Ignacio Gadea Echandi, G202
PLAN OBLIQUE SCALE 1:100
0 1 2 3 4 5M

Mendelsohn House (Casa Mendelsohn), Berlin, Germany

Erich Mendelsohn



MENDELSOHN HOUSE
Erich Mendelsohn, Rupenhorn, Berlin, 1929-30

Scemama Juliette



MENDELSOHN HOUSE
Erich Mendelsohn, Rupenhorn, Berlin, 1929-30

S:1/100 0 1 2 3 4 5m

Scemama Juliette

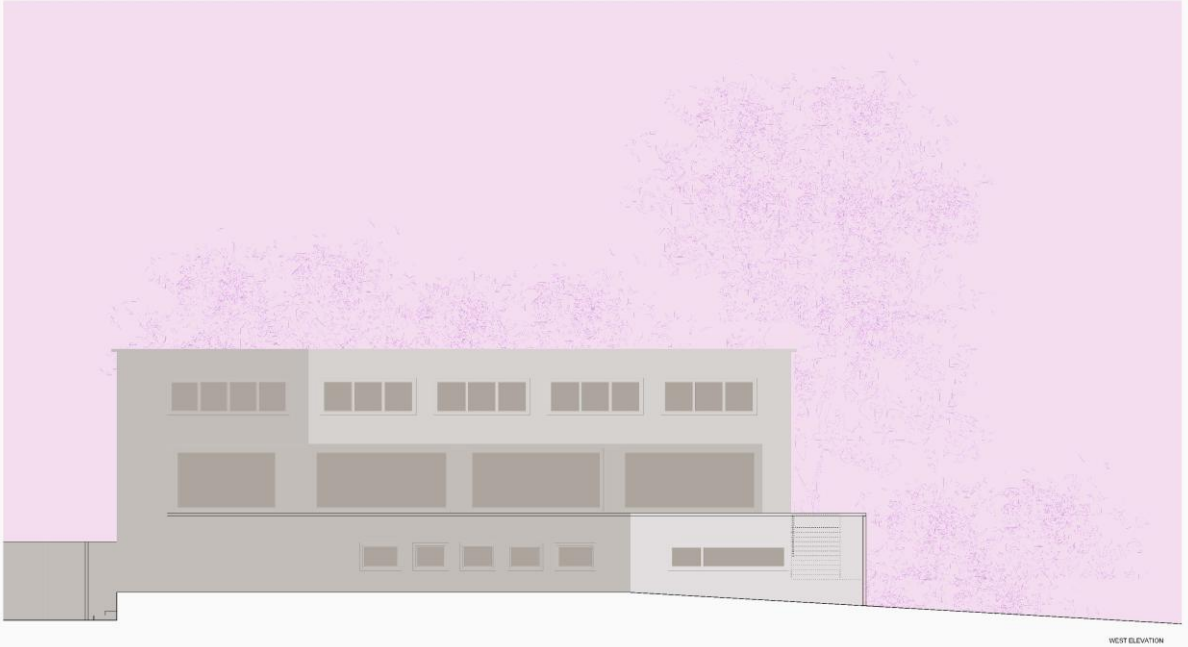


CASA MENDELSOHN, ERICH MENDELSOHN NIKOL BONOVA, GROUP 201



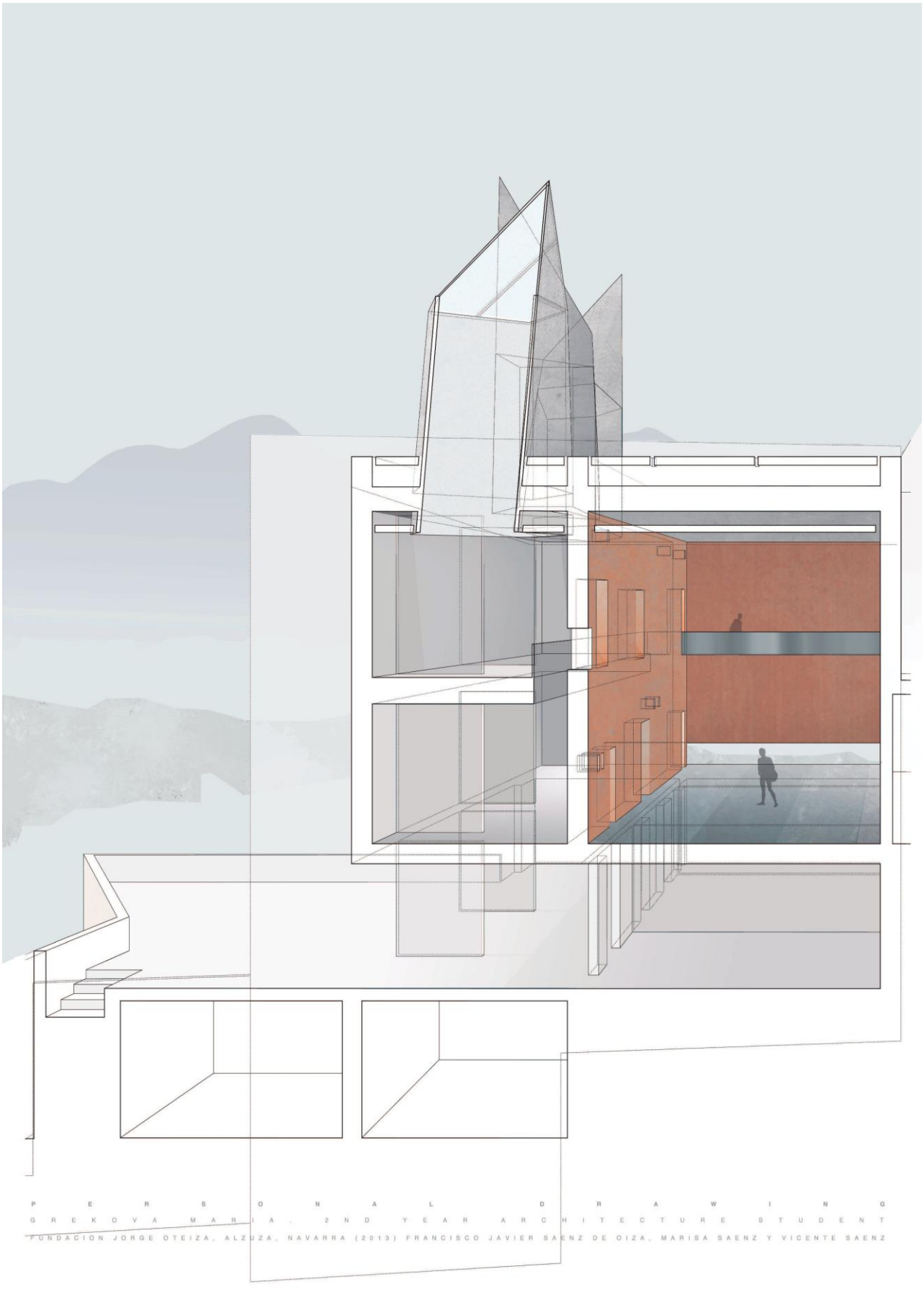
CASA MENDELSOHN, ERICH MENDELSOHN NIKOL BONOVA, GROUP 201


MENDELSOHN HOUSE BY ERICH MENDELSOHN
ANNA MARIE CASTILLO FONG GROUP 201
LONG SECTION AA'


WEST ELEVATION
MENDELSOHN HOUSE BY ERICH MENDELSOHN
ANNA MARIE CASTILLO FONG GROUP 201

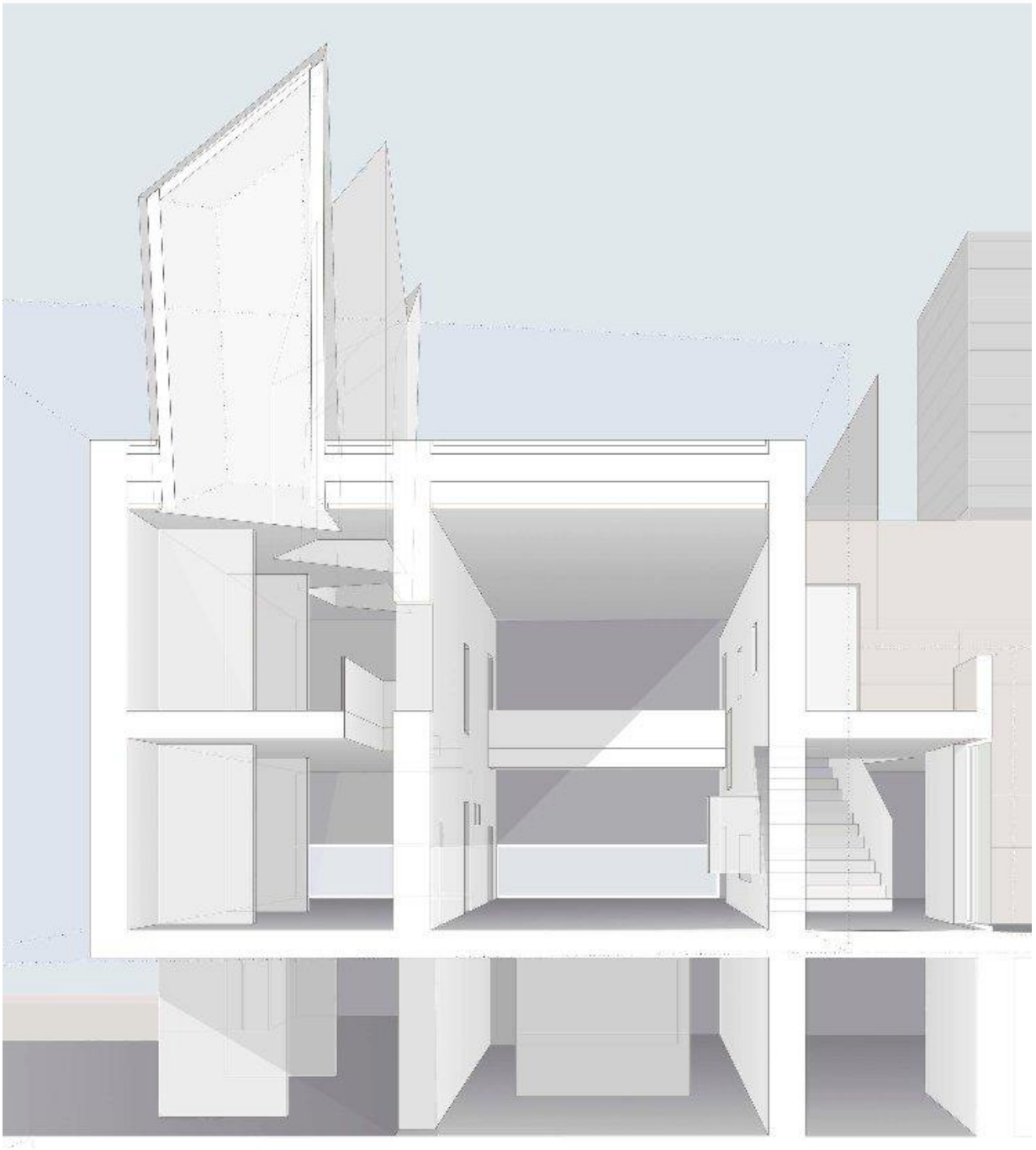
Jorge Oteiza Foundation (Fundación Oteiza), Spain

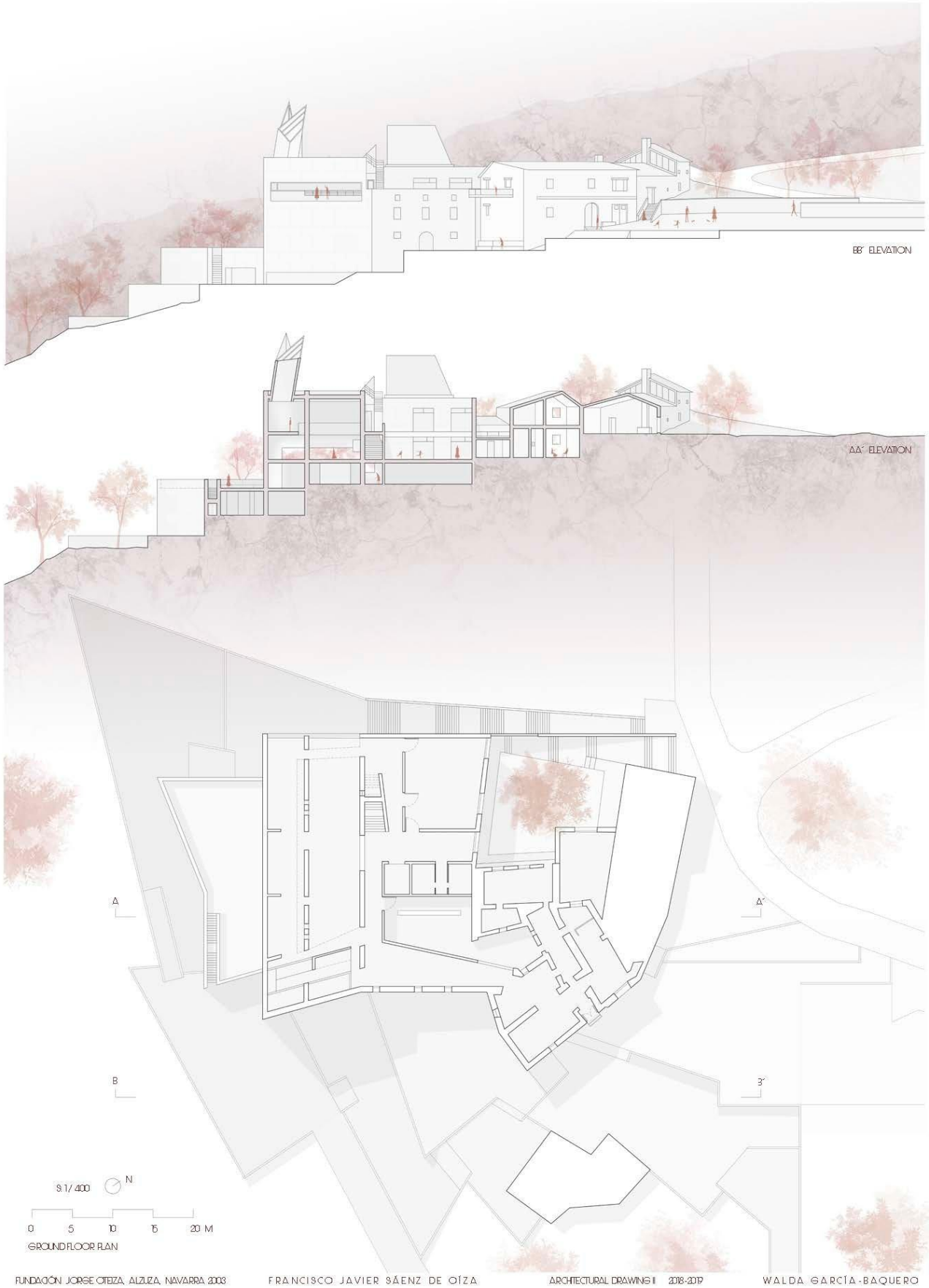
Javier Sáenz de Oiza


P E R S O N A L D R A W I N G
G R E K O V A M A R I A . 2 N D Y E A R A R C H I T E C T U R E S T U D E N T
FUNDACION JORGE OTEIZA, ALZUZA, NAVARRA (2013) FRANCISCO JAVIER SAENZ DE OIZA, MARISA SAENZ Y VICENTE SAENZ



FUNDACIÓN JORGE OTEIZA FRANCISCO JAVIER SÁENZ DE OIZA BY CRISTINA RUBIO MARTÍN ARCHITECTURAL DRAWINGS - ADVANCED PERSONAL DRAWING

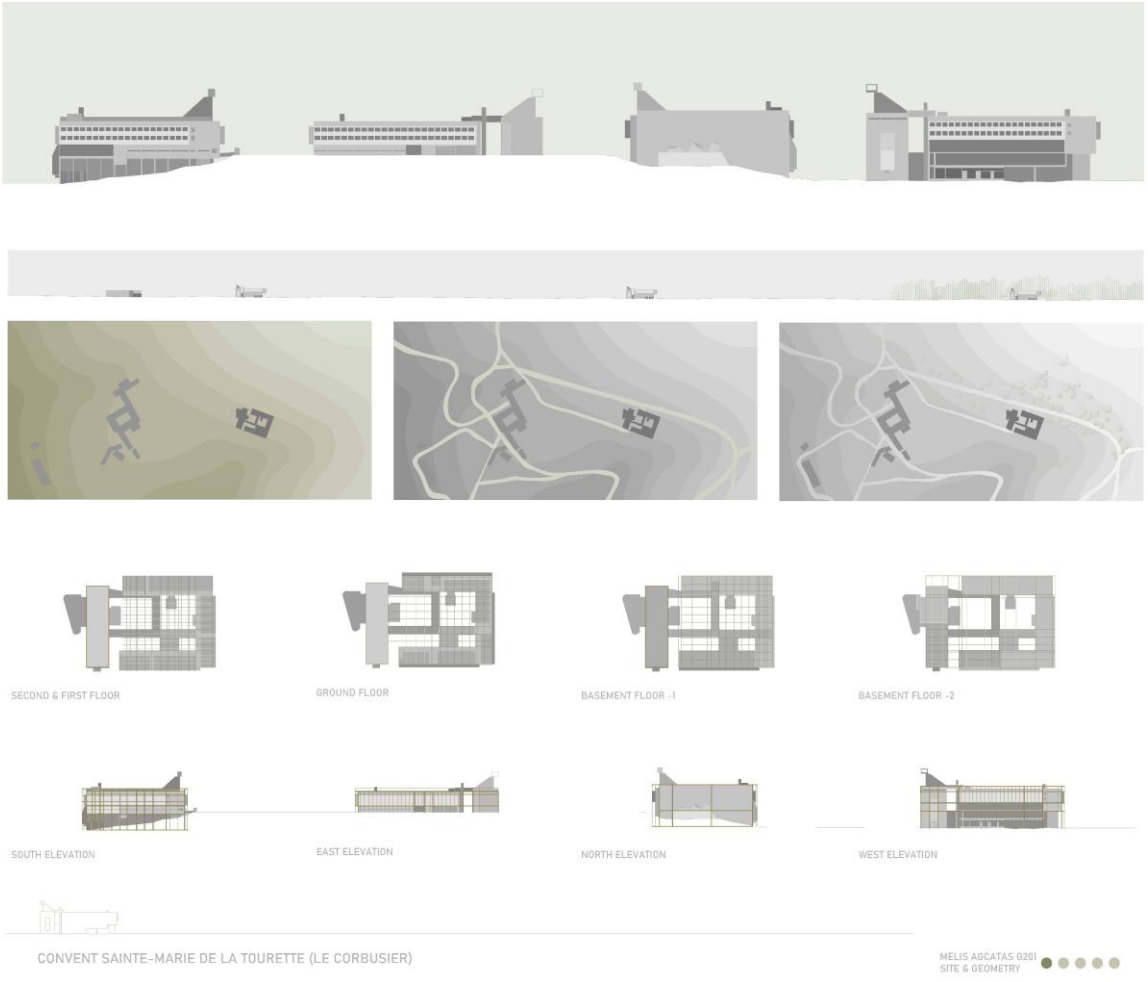




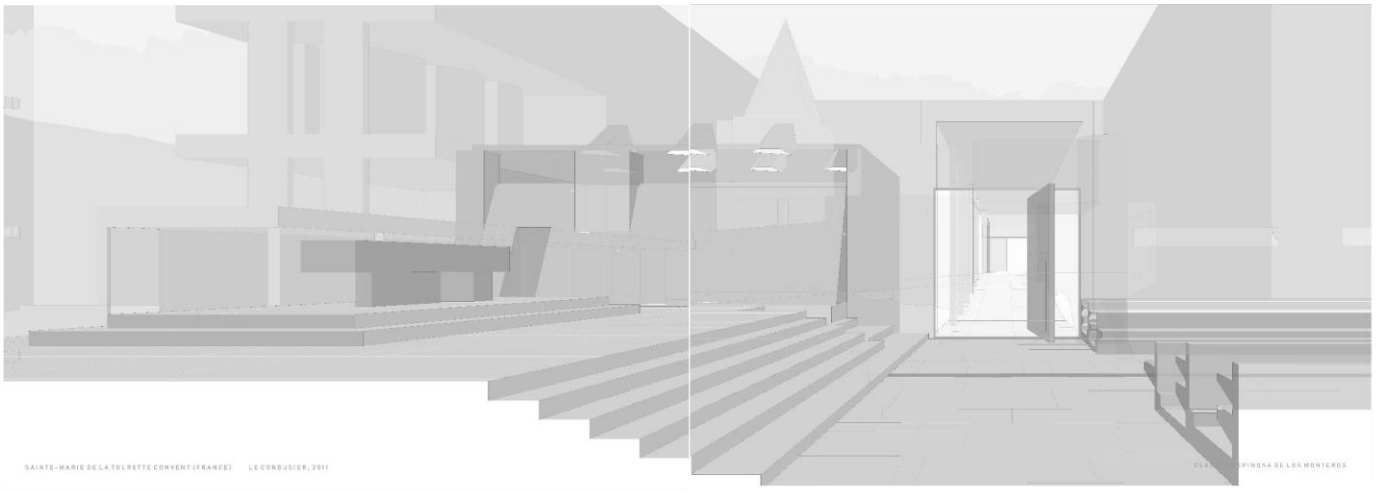
FUNDACIÓN JORGE OTEIZA, ALZUZA, NAVARRA 2003 FRANCISCO JAVIER SÁENZ DE OÍZA ARCHITECTURAL DRAWING II 2018-2019 WALDA GARCÍA-BAQUERO

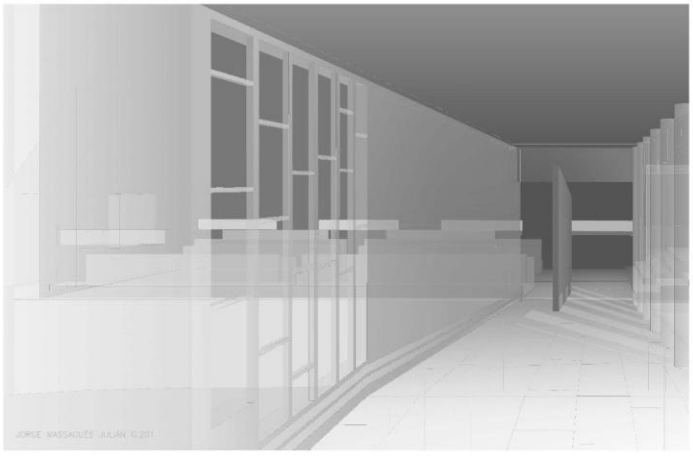
Sainte Marie de la Tourette (Convento La Tourette), France.

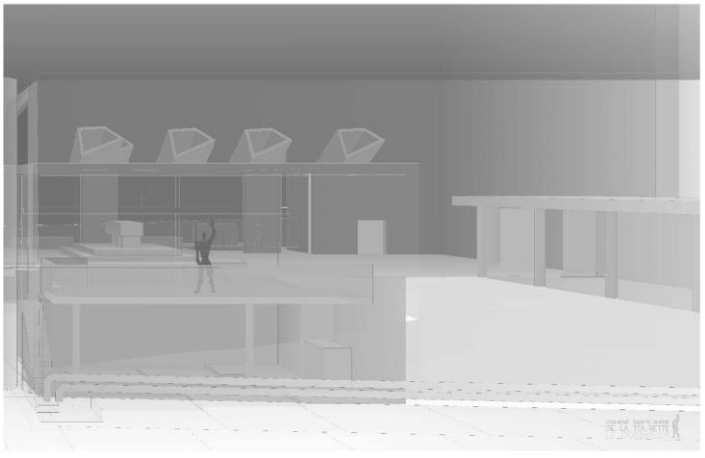
Le Corbusier


SECOND & FIRST FLOOR
GROUND FLOOR
BASEMENT FLOOR -1
BASEMENT FLOOR -2
SOUTH ELEVATION
EAST ELEVATION
NORTH ELEVATION
WEST ELEVATION
CONVENT SAINTE-MARIE DE LA TOURETTE (LE CORBUSIER)
MELIS AGCATAS G20I
SITE & GEOMETRY

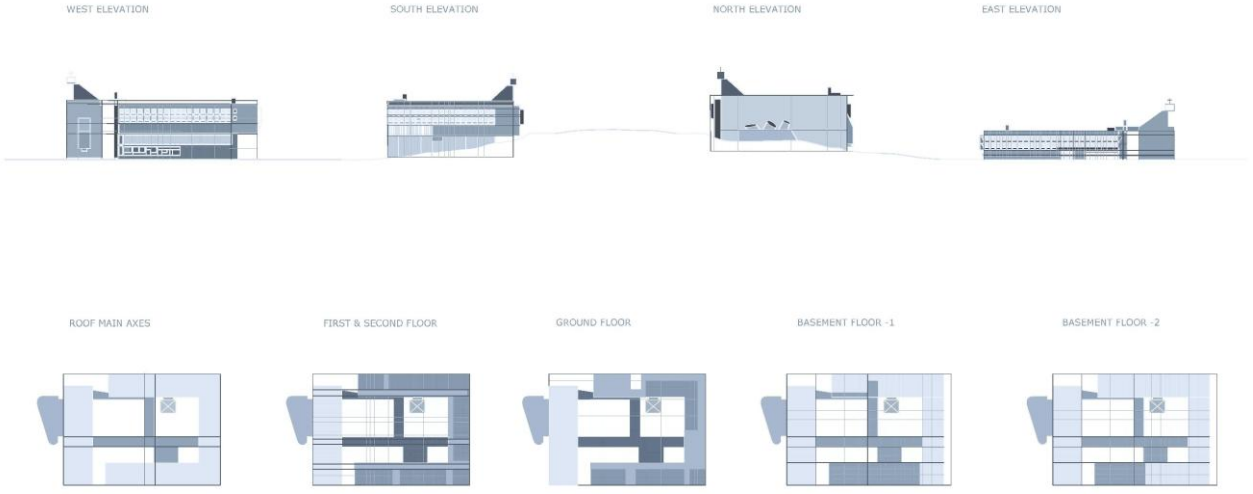

CONVENT SAINTE-MARIE DE LA TOURETTE (LE CORBUSIER)









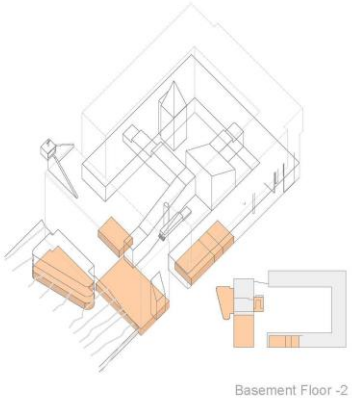


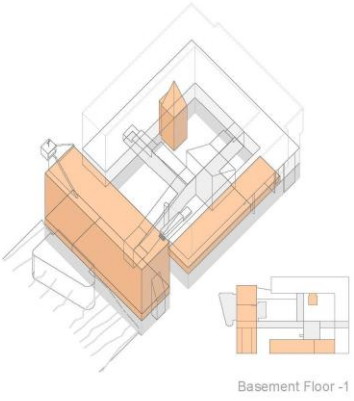


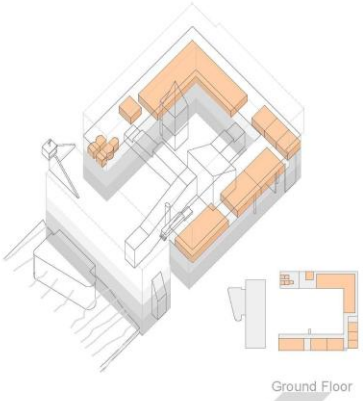
PERSONAL DRAWING

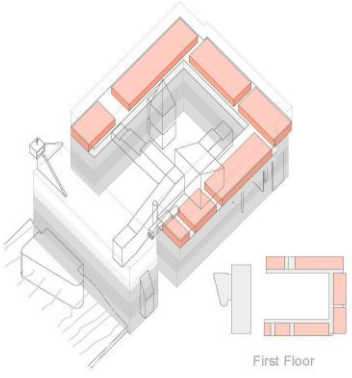
VANESSA LARSSON
ARCHITECTURAL DRAWING II

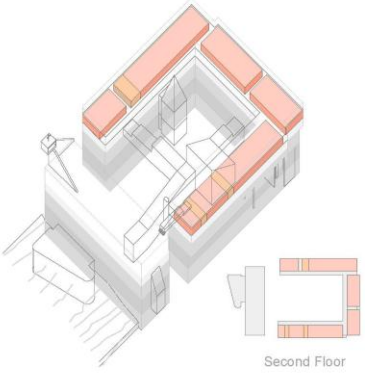
COUVENT SAINTE MARIE DE LA TOURETTE
1956 - 1960

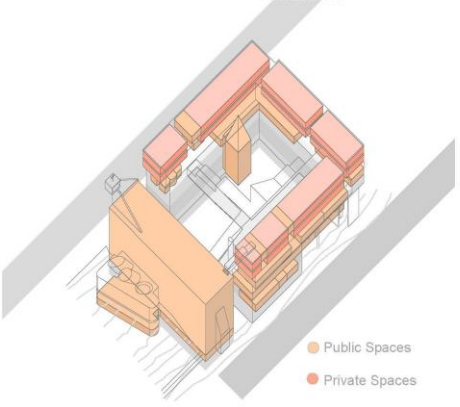

Basement Floor -2

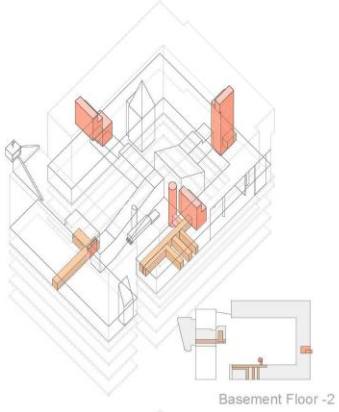

Basement Floor -1

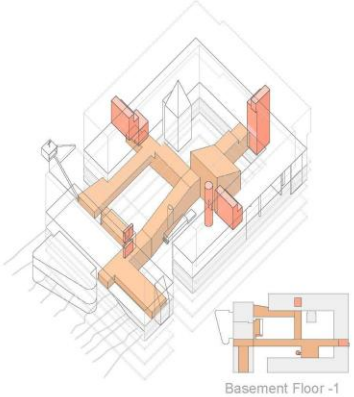

Ground Floor

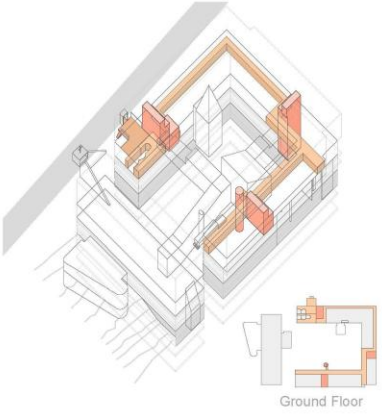

First Floor

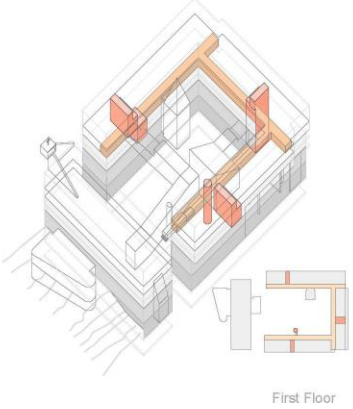

Second Floor


Public Spaces
Private Spaces


Basement Floor -2


Basement Floor -1


Ground Floor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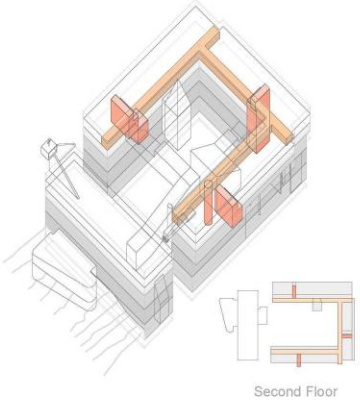
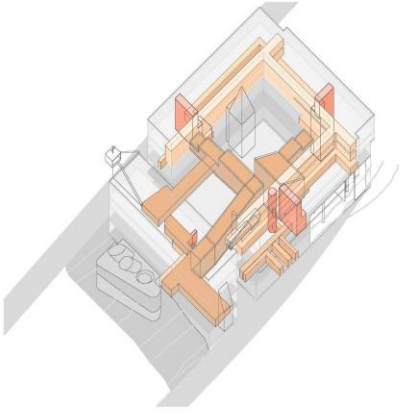
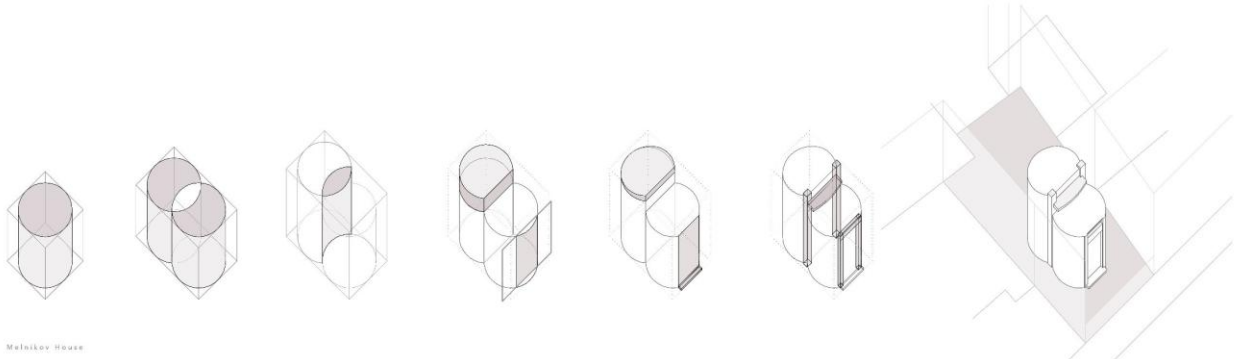
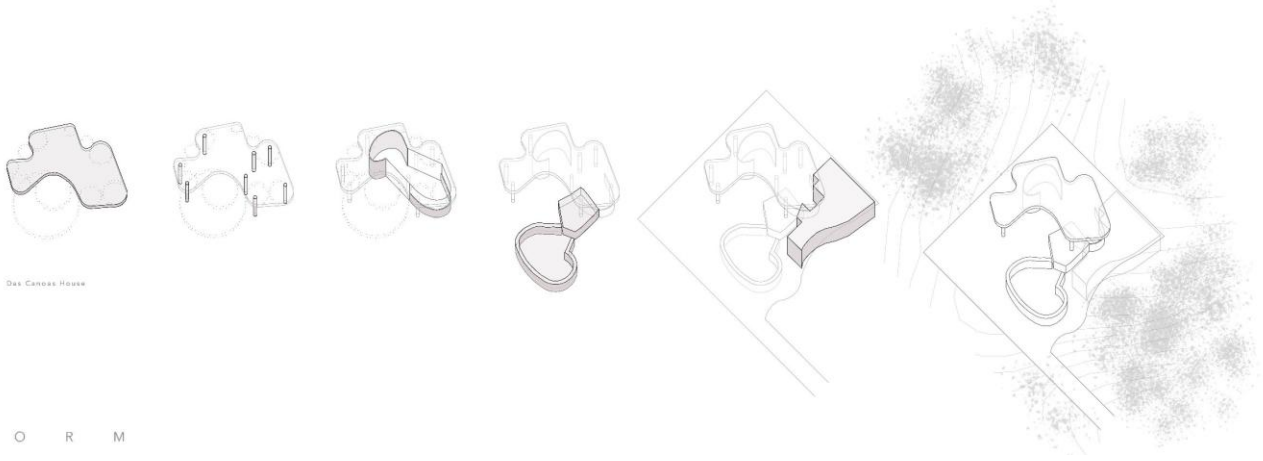

Second Floor



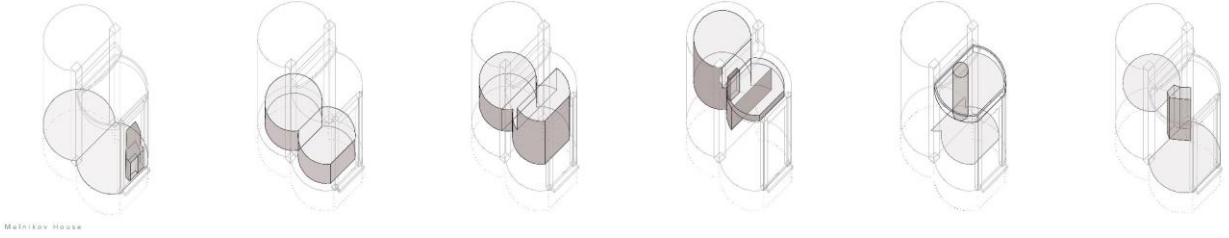
Melnikov/Das Canoas House (Casas Melnikov-Das Canoas).

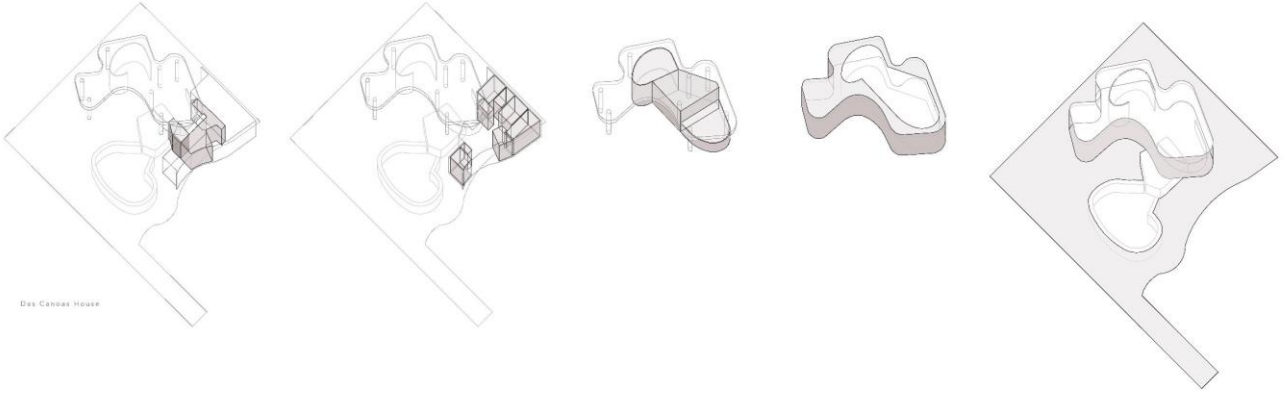
K. Melnikov / O. Niemeyer





F O R M



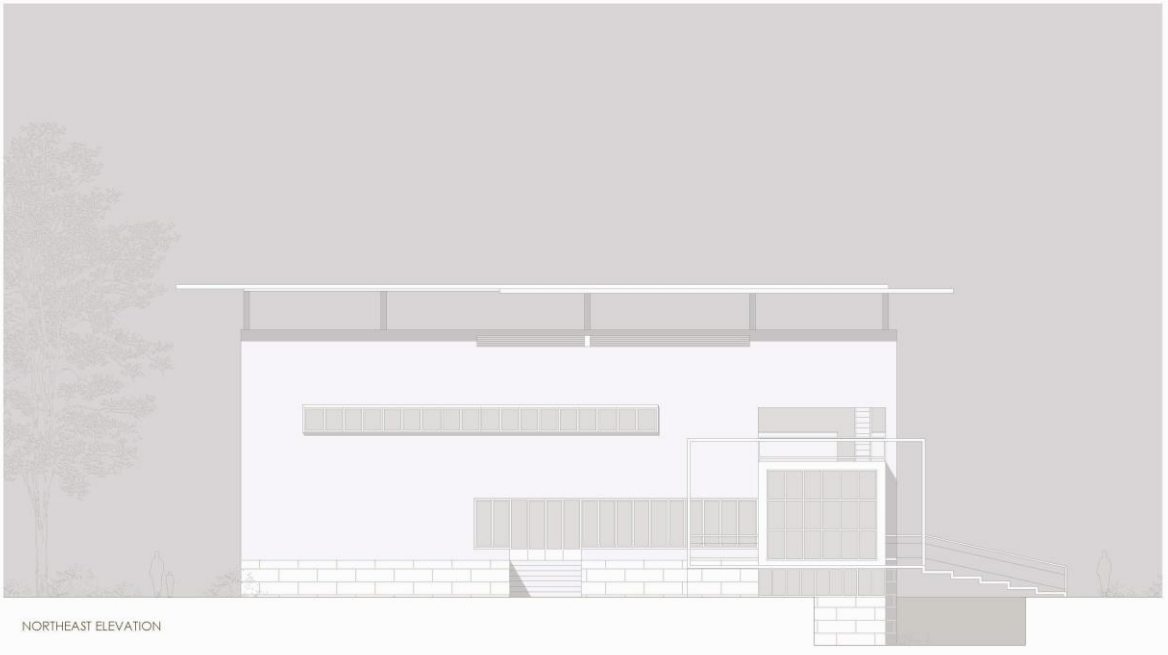


S P A C E - C O N N E C T I O N S

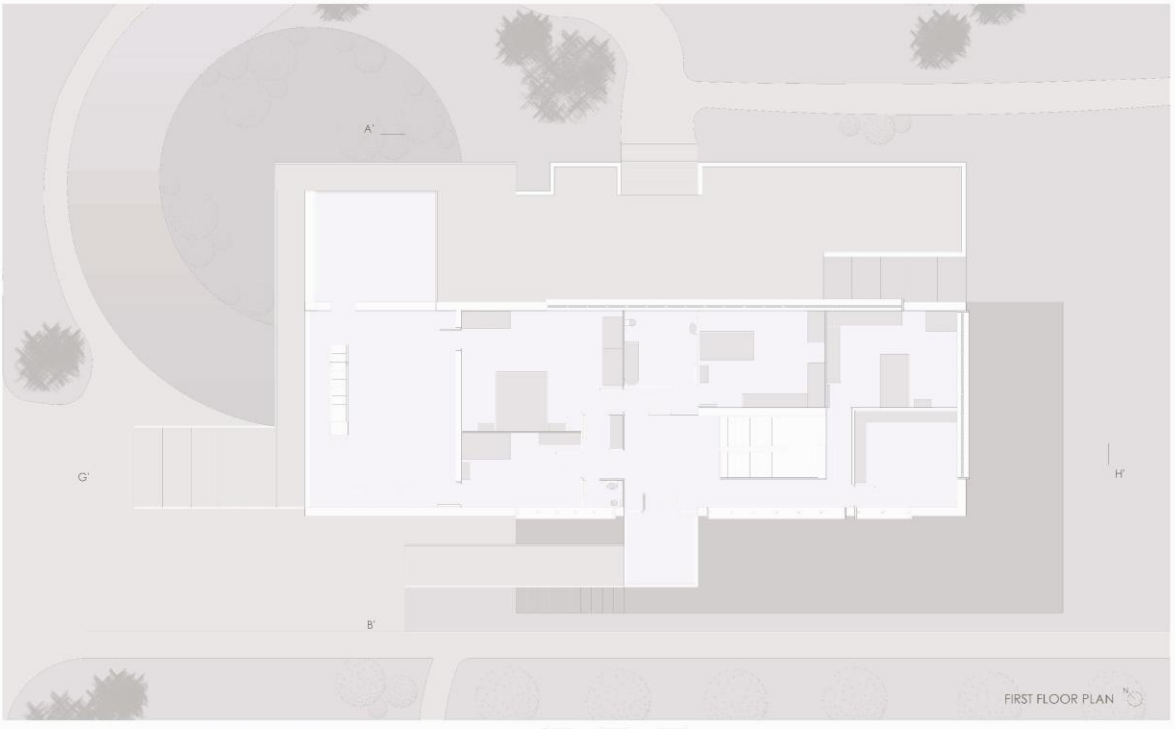
Comparative Analysis - Melnikov House - Das Canoas House

Villa Bianca, Seveso, Italy.

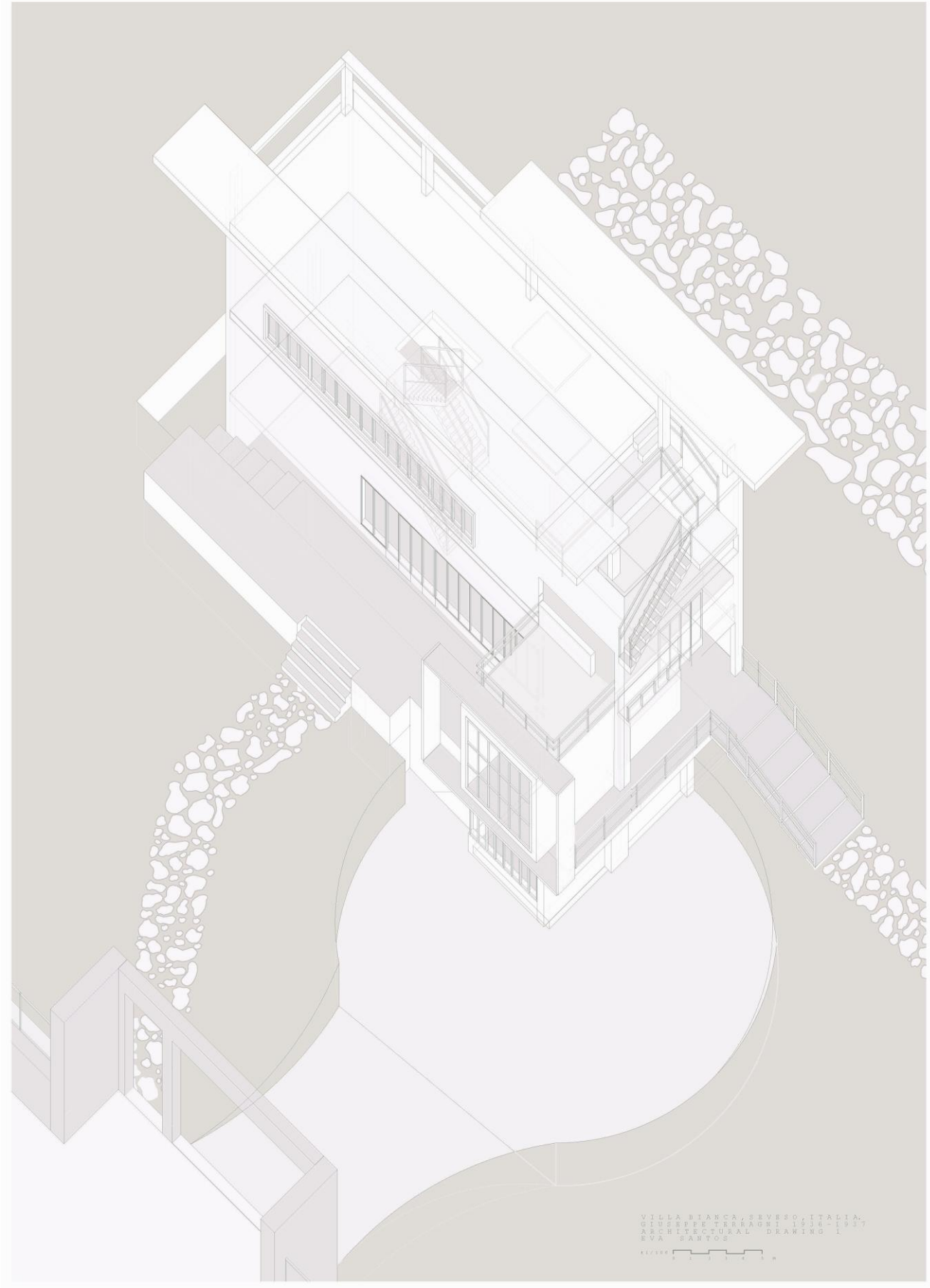
Giuseppe Terragni



VILLA BIANCA GIUSEPPE TERRAGNI SEVESO, ITALY, 1937 SCALE 1:100 0 1 2 3 4 5 m. MELIS AGCATAS



VILLA BIANCA GIUSEPPE TERRAGNI SEVESO, ITALY, 1937 SCALE 1:100 0 1 2 3 4 5 m. MELIS AGCATAS


VILLA BIANCA, SEVESO, ITALIA.
GIUSEPPE TERRAGNI 1936-1937
ARCHITECTURAL DRAWING 1
EVA SANTOS

Botin Centre (Centro Botín), Santander, Spain

Renzo Piano



SOUTH ELEVATION

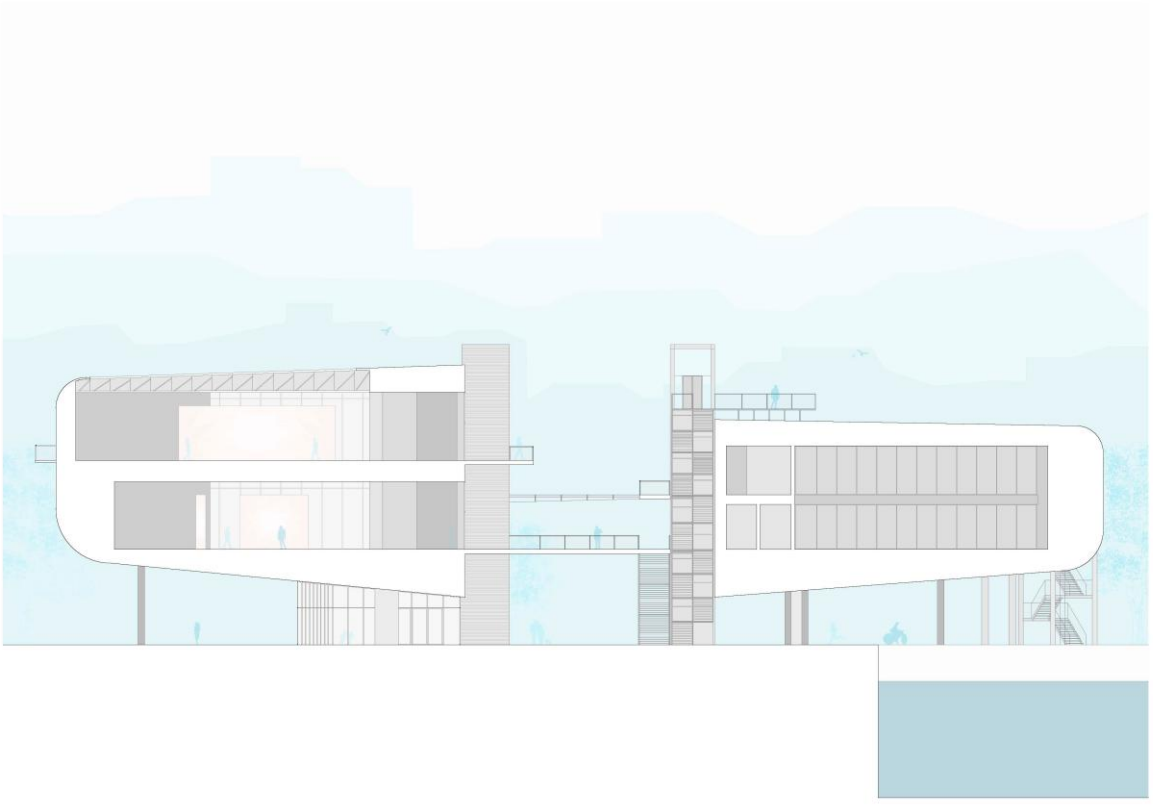


BOTÍN CENTRE 2017 RENZO PIANO
ARCHITECTURAL DRAWING 2 CRISTIAN LIU GROUP 1

N

SCALE 1/500
0 5 10 15 20 25

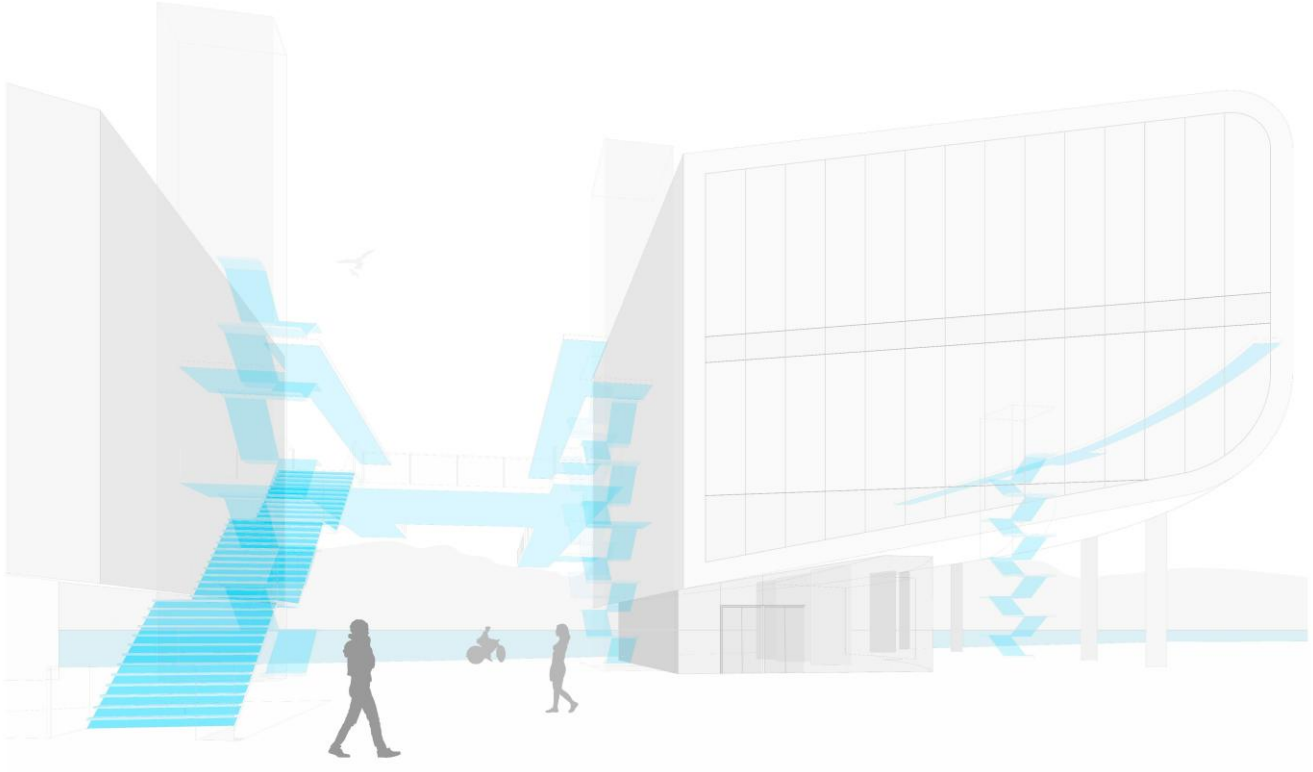
GROUND FLOOR PLAN



BOTÍN CENTRE 2017 RENZO PIANO SECTION A- A'

SCALE 1/200 0 2 4 6 8 10

CRISTIAN LIU GROUP 1



BOTÍN CENTRE 2017 RENZO PIANO

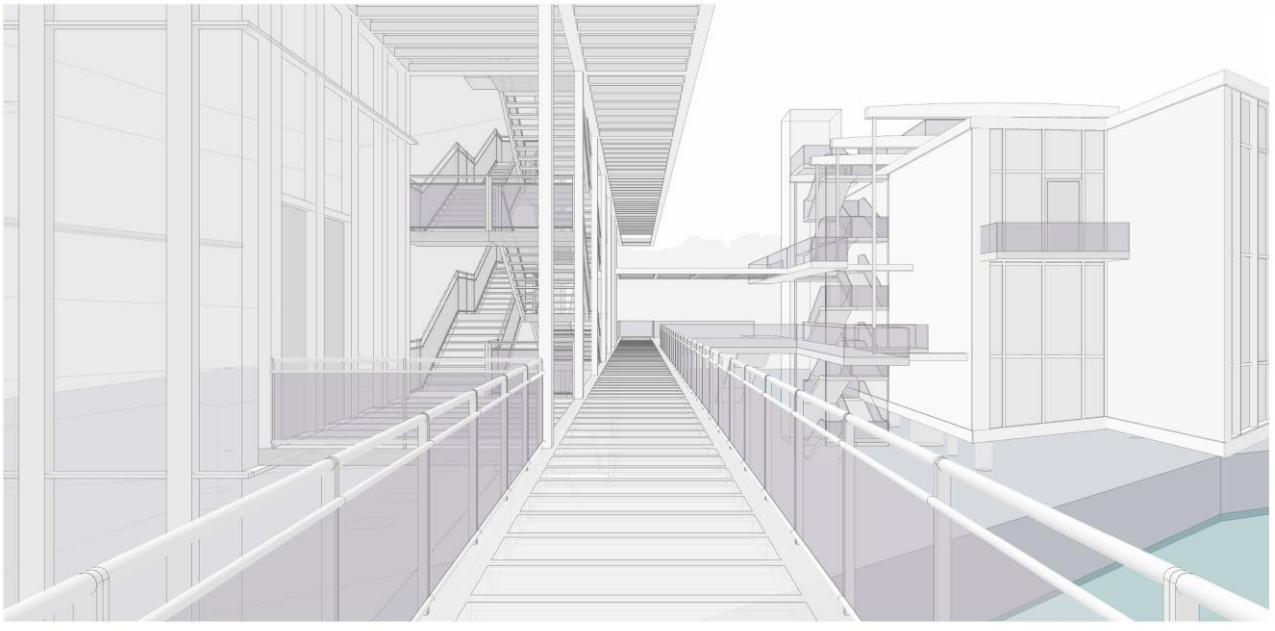
ARCHITECTURAL DRAWING 2 CRISTIAN LIU GROUP 1

CENTRO BOTIN; Renzo Piano Building Workshop, Santander 2017

SOUTH ELEVATION

Scale 1:500





Meisterhause Kandinsky-Klee (Casa de los maestros), Germany.

Walter Gropius.



NORTH ELEVATION

0 1 2 3 4 5 m. S: 1/100 N



SOUTH ELEVATION

0 2 4 6 8 10 m. S: 1/200 S



FIRST FLOOR PLAN

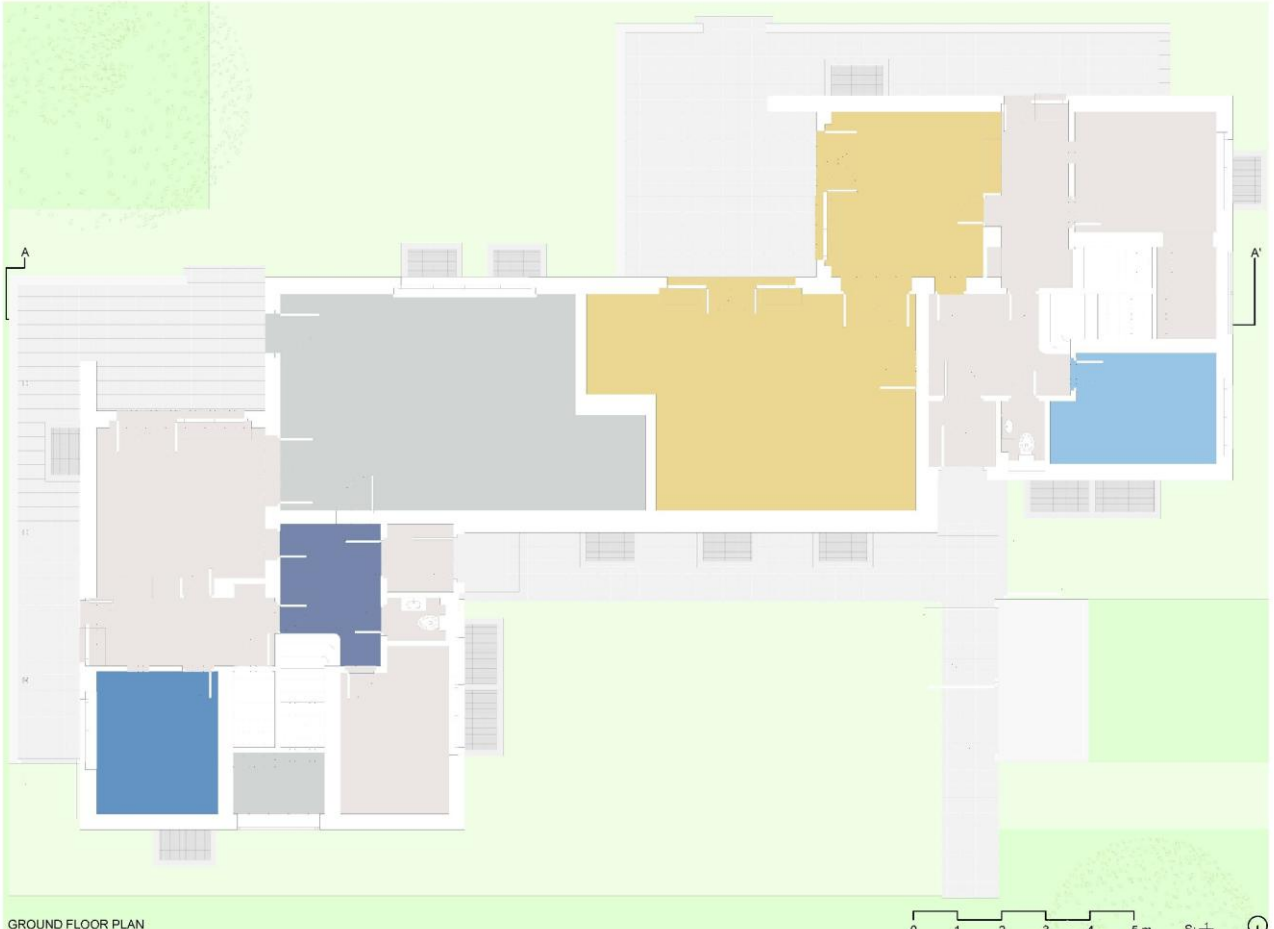
0 2 4 6 8 10 m. S: 1/200 S

FAHD LAHLOU



AA' SECTION

0 1 2 3 4 5 m. S: 1/100 N



GROUND FLOOR PLAN

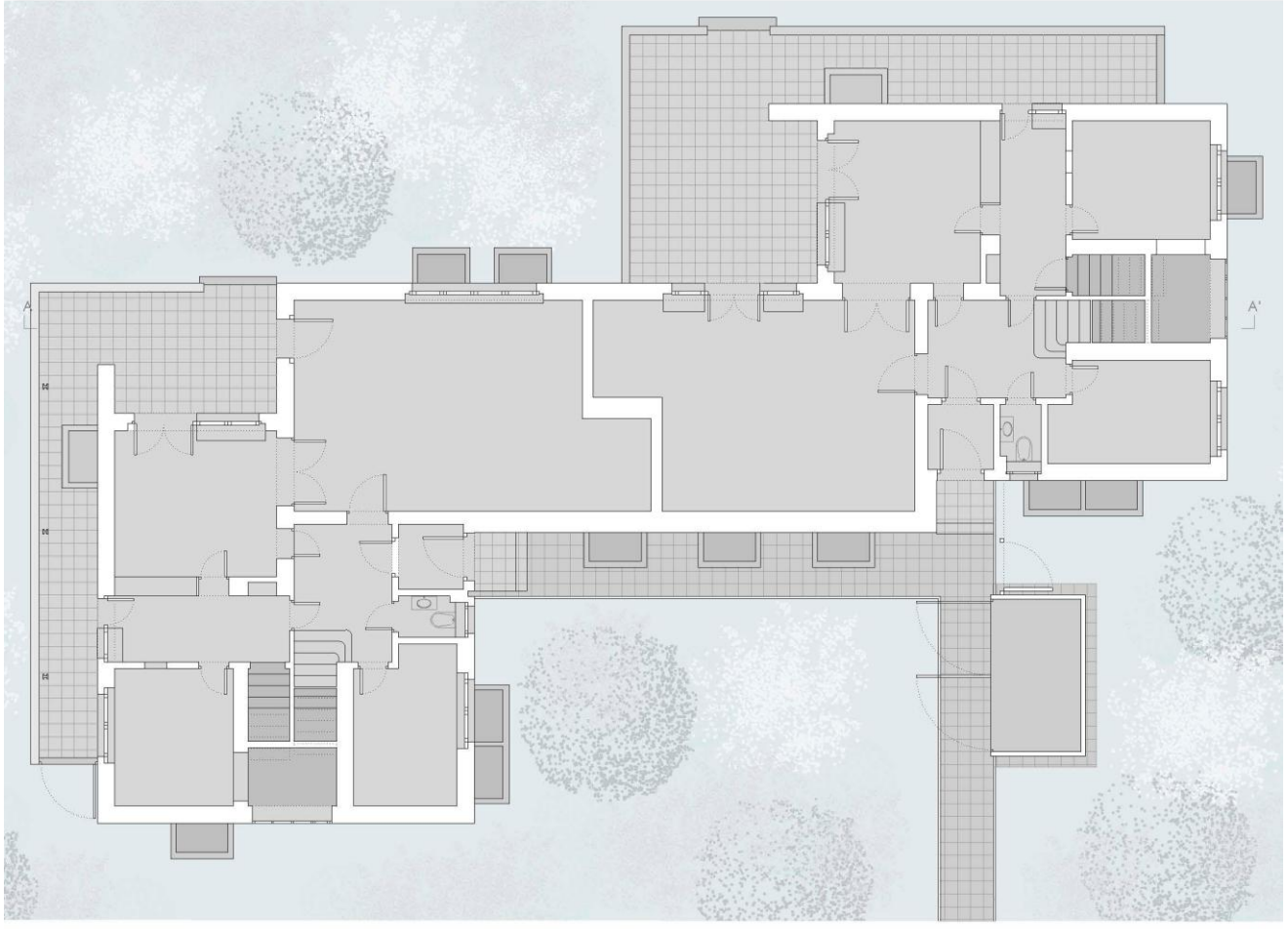
0 1 2 3 4 5 m. S: 1/100 N

MEISTERHAUS KANDINSKY/KLEE IN DESSAU, WALTER GROPIUS, 1926

FAHD LAHLOU



AA' SECTION



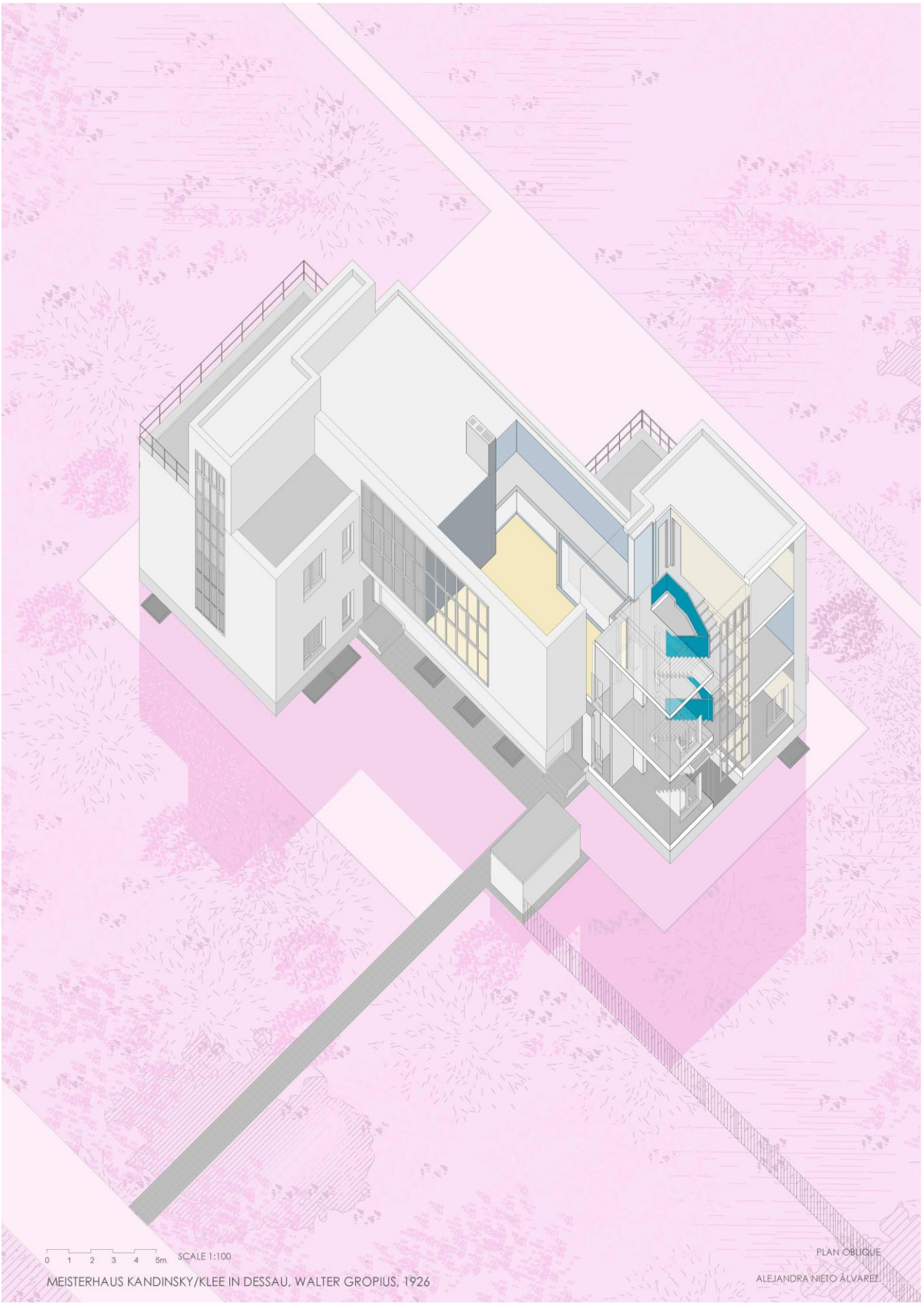
SCALE 1:100 0 1 2 3 4 5 m

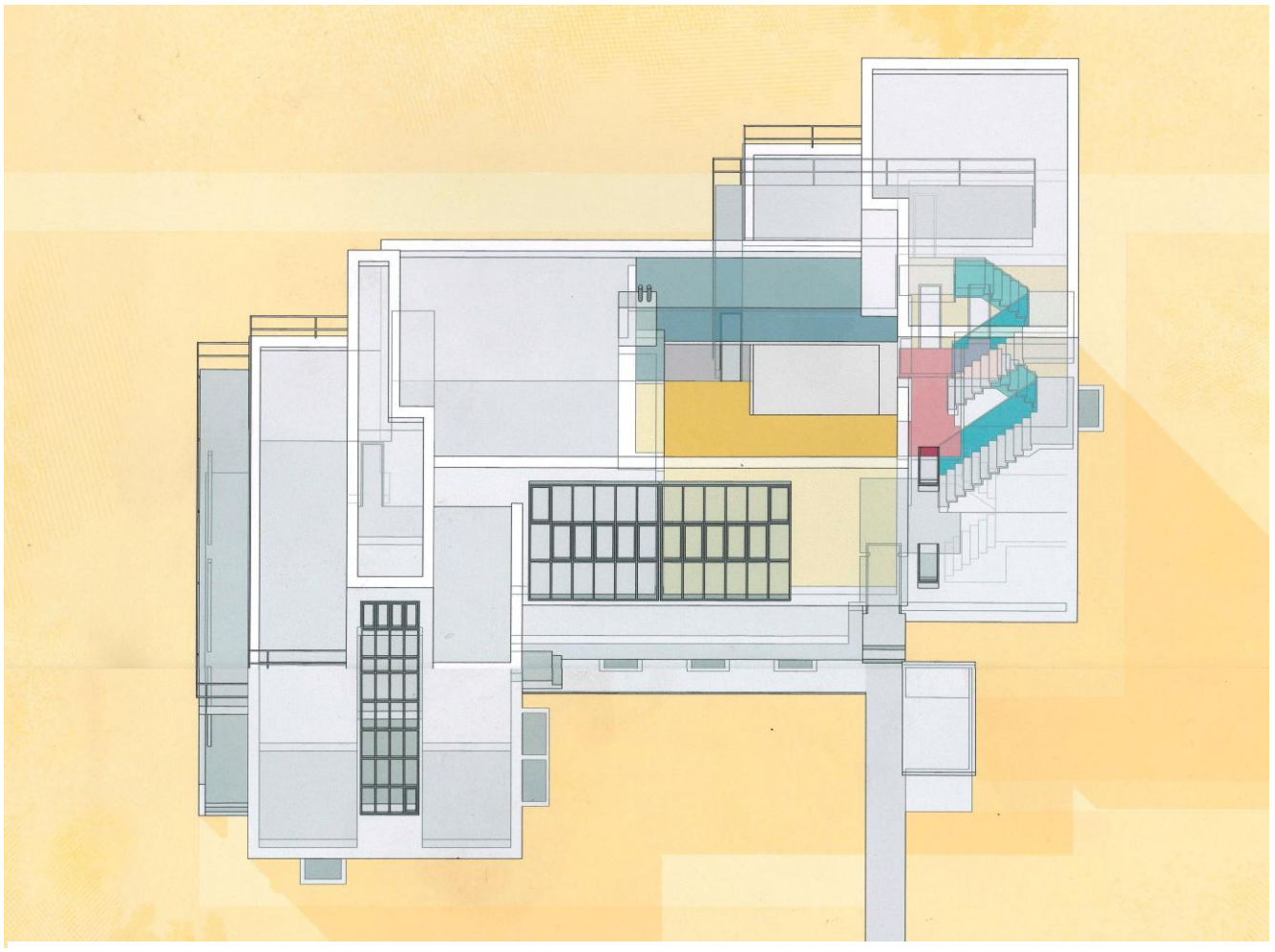
GROUND FLOOR PLAN

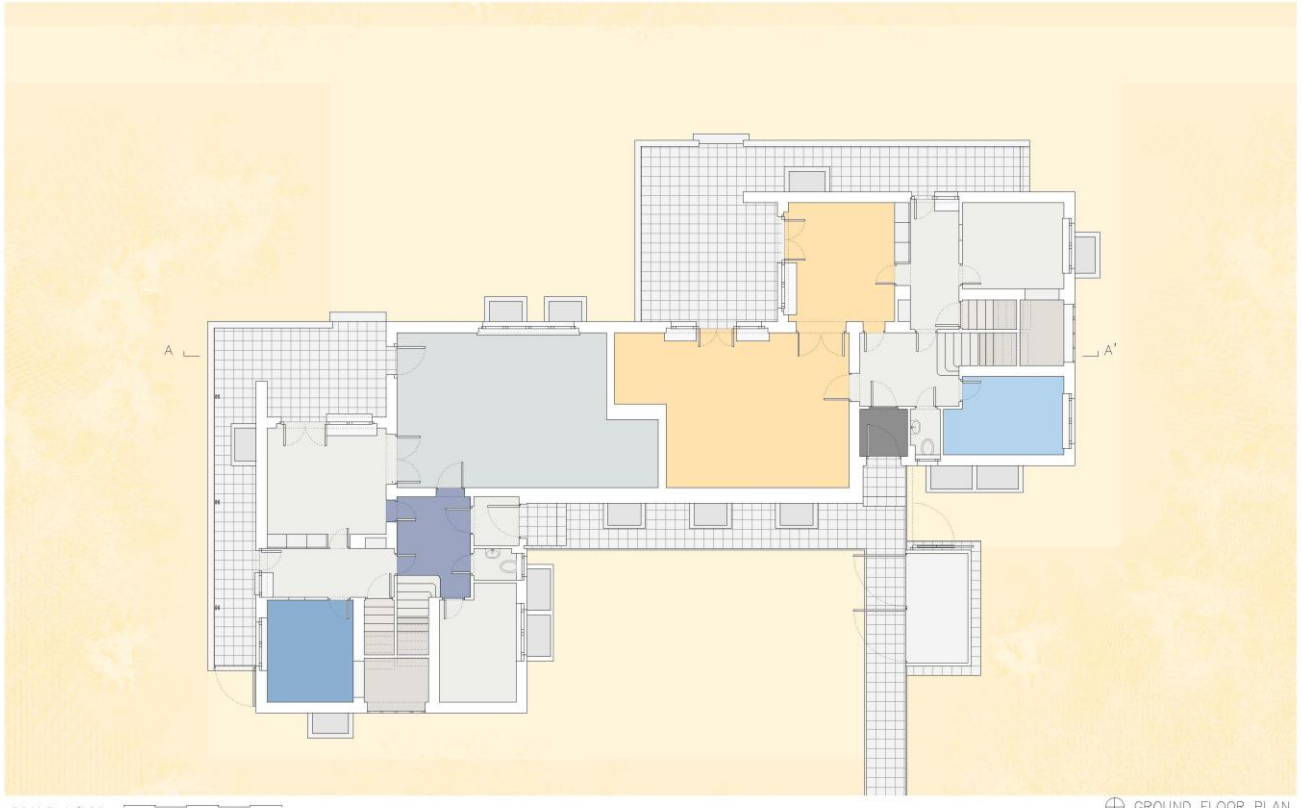
N

MEISTERHAUS KANDINSKY/ KLEE WALTER GROPIUS

DANIELA FLORES GARCIA


0 1 2 3 4 5m SCALE 1:100
MEISTERHAUS KANDINSKY/KLEE IN DESSAU, WALTER GROPIUS, 1926
PLAN OBLIQUE
ALEJANDRA NIETO ÁLVAREZ





SCALE 1/100 0 1 2 3 4 5m

GROUND FLOOR PLAN

KANDINSKY/KLEE HOUSE WALTER GROPIUS

YAGO VALDÉS MARTÍN G-202

Shodan House (Casa Shodan), Ahmedabad, India

Le Corbusier.



SHODAN HOUSE. LE CORBUSIER IMRAN OZGE OZTURKER





SOUTH-WEST ELEVATION

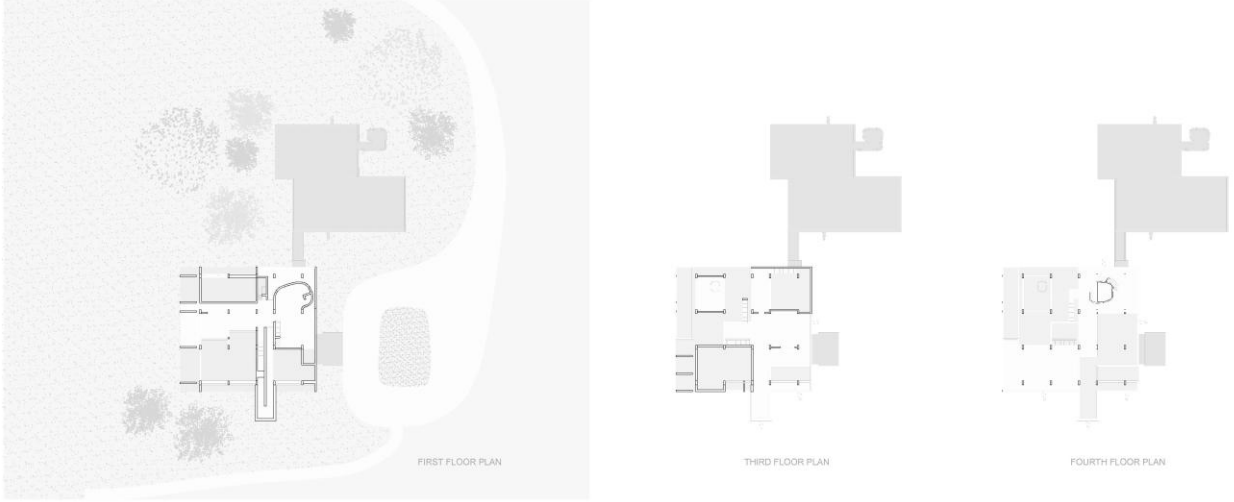
SHODAN HOUSE. LE CORBUSIER SCALE 1.100 0 1 2 3 4 5 m. IMRAN OZGE OZTURKER





SHODAN HOUSE. LE CORBUSIER SCALE 1:200 0 2 4 6 8 10 m. IMRAN OZGE OZTURKER





SHODAN HOUSE. LE CORBUSIER SCALE 1:400 0 5 10m. IMRAN OZGE OZTURKER



SHODAN HOUSE. LE CORBUSIER SCALE 1.100 0 1 2 3 4 5 m. IMRAN OZGE OZTURKER



SHODAN HOUSE. LE CORBUSIER SCALE 1.100 0 1 2 3 4 5 m. IMRAN OZGE OZTURKER



SOUTH-WEST ELEVATION

SHODHAN HOUSE LE CORBUSIER CLAUDIA PÉREZ-CASTILLA URRUTIA

0 1 2 3 4 5m



NORTH-WEST ELEVATION

SOUTH-EAST ELEVATION

SECTION 5

SHODHAN HOUSE LE CORBUSIER CLAUDIA PÉREZ-CASTILLA URRUTIA

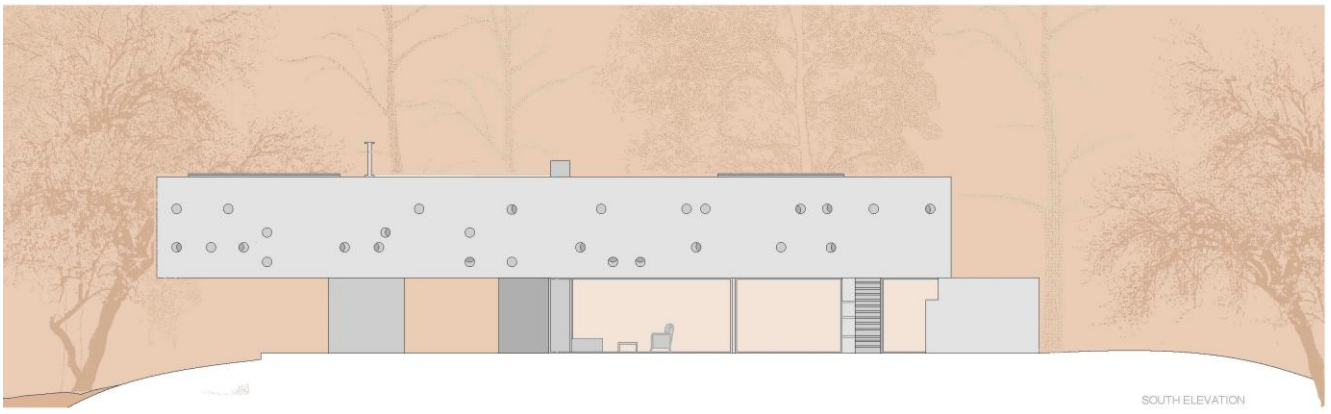
0 1 2 3 4 5m

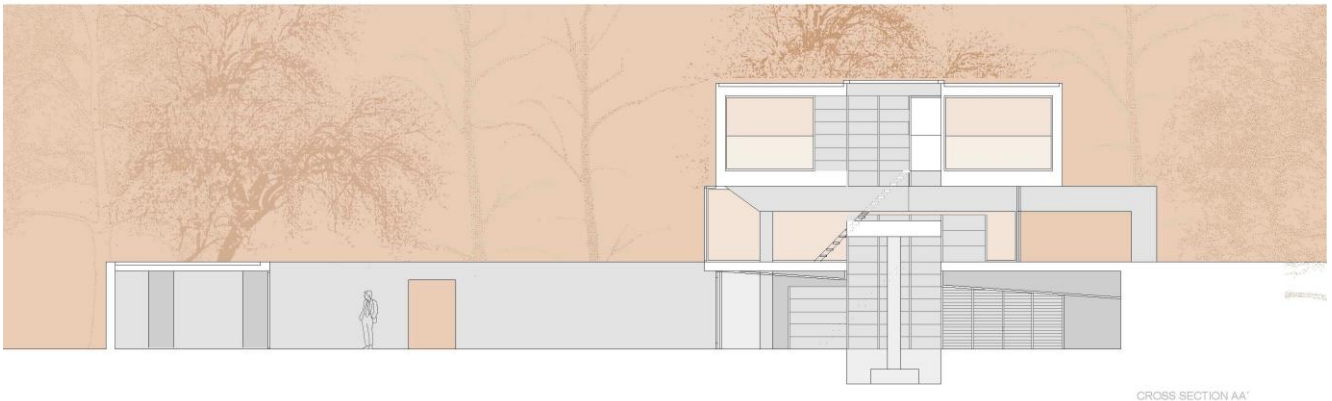

SOUTH WEST ELEVATION
SECTION S

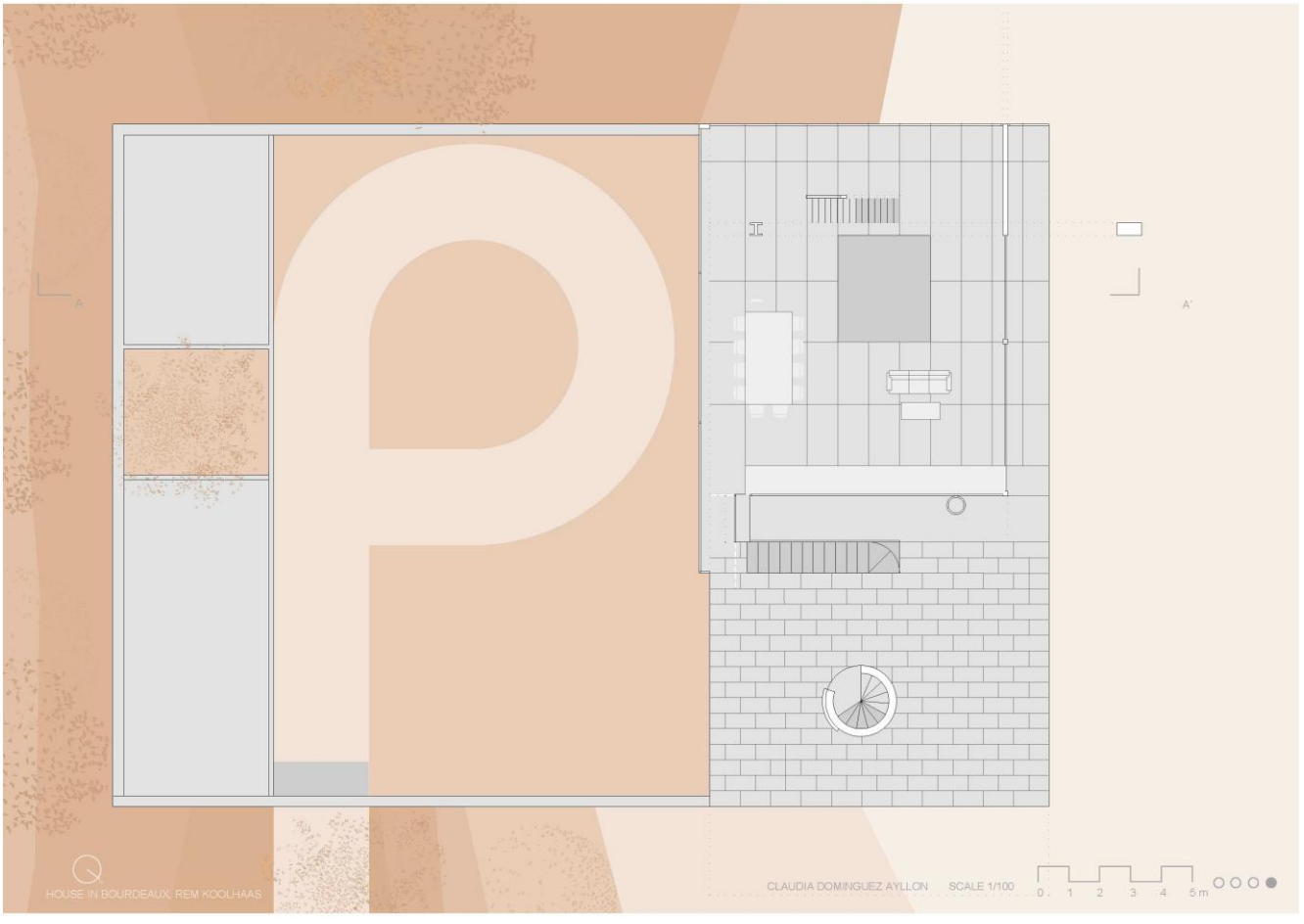

SHODAN HOUSE, LE CORBUSIER A AHMEDABAD, INDIA, 1956
SOUTH WEST ELEVATION

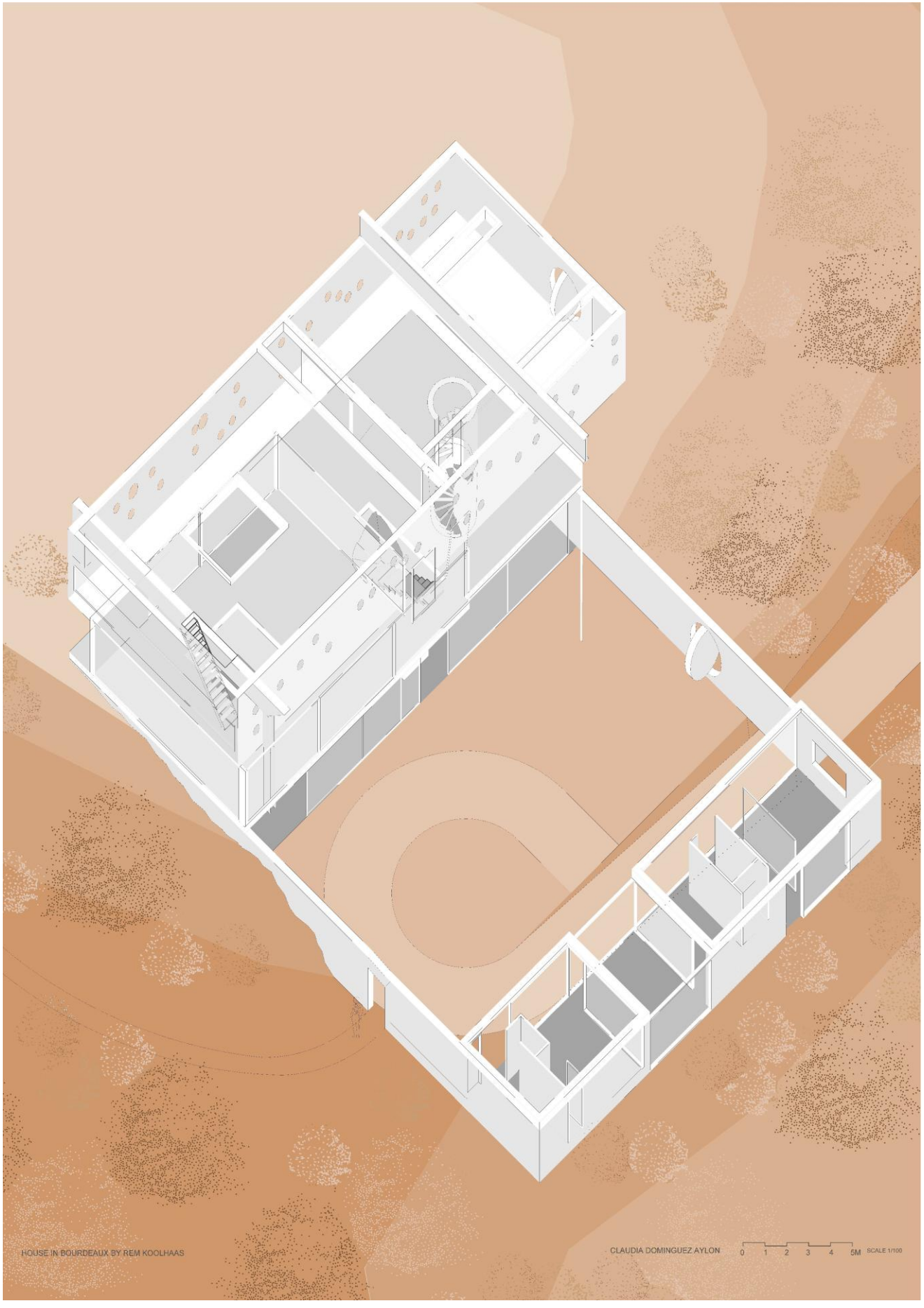
House in Bourdeaux (Casa en Bourdeaux), France

Rem Koolhaas (OMA)


SOUTH ELEVATION

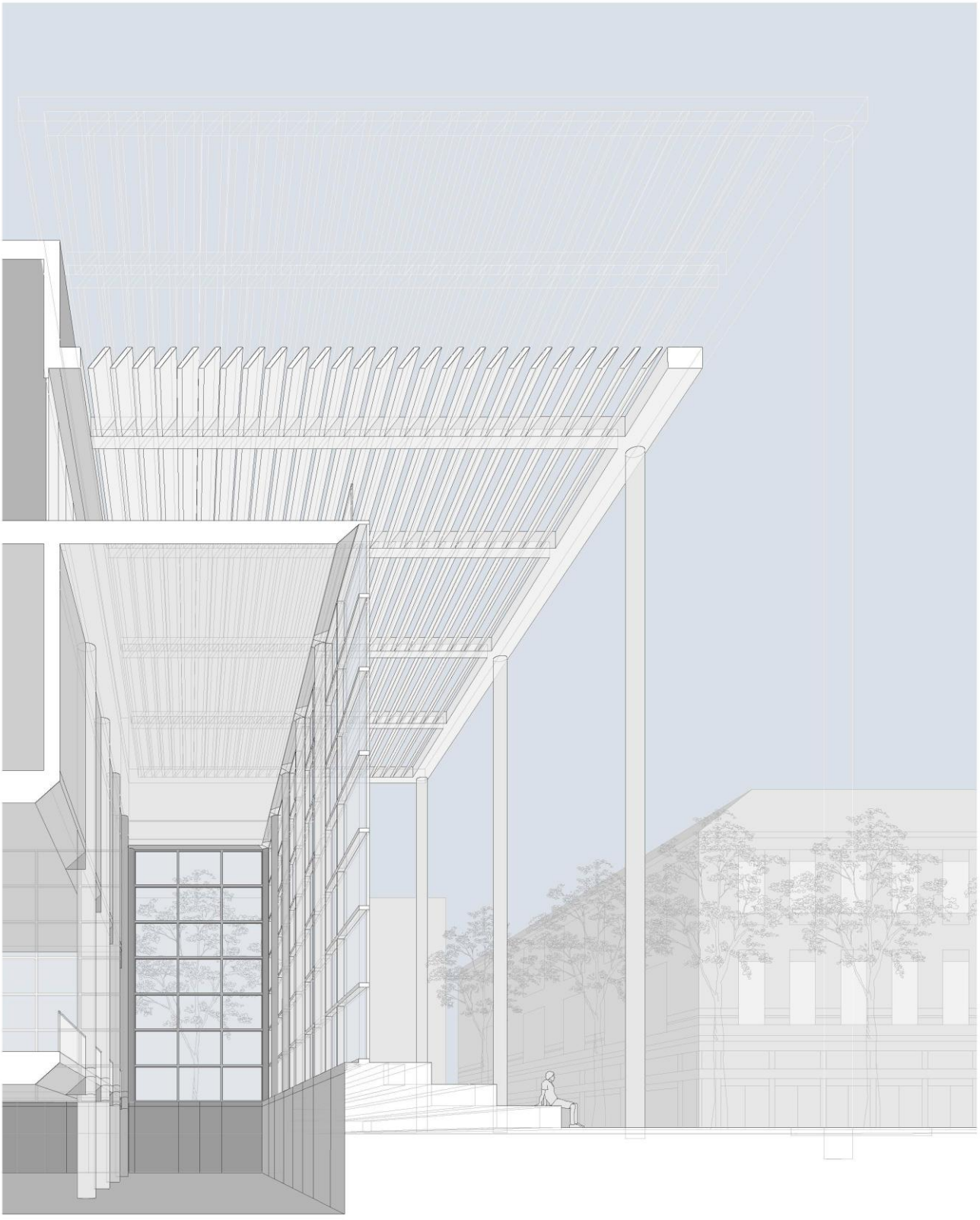

CROSS SECTION AA'
HOUSE IN BOURDEAUX, REM KOOLHAAS
CLAUDIA DOMINGUEZ AYLLON SCALE 1/100
0 1 2 3 4 5m


A
A'
HOUSE IN BOURDEAUX, REM KOOLHAAS
CLAUDIA DOMINGUEZ AYLLON SCALE 1/100
0 1 2 3 4 5m


HOUSE IN BOURDEAUX BY REM KOOLHAAS
CLAUDIA DOMINGUEZ AYLON
0 1 2 3 4 5M SCALE 1/100

Carre D’Art (Centro de Arte), Nimes, France

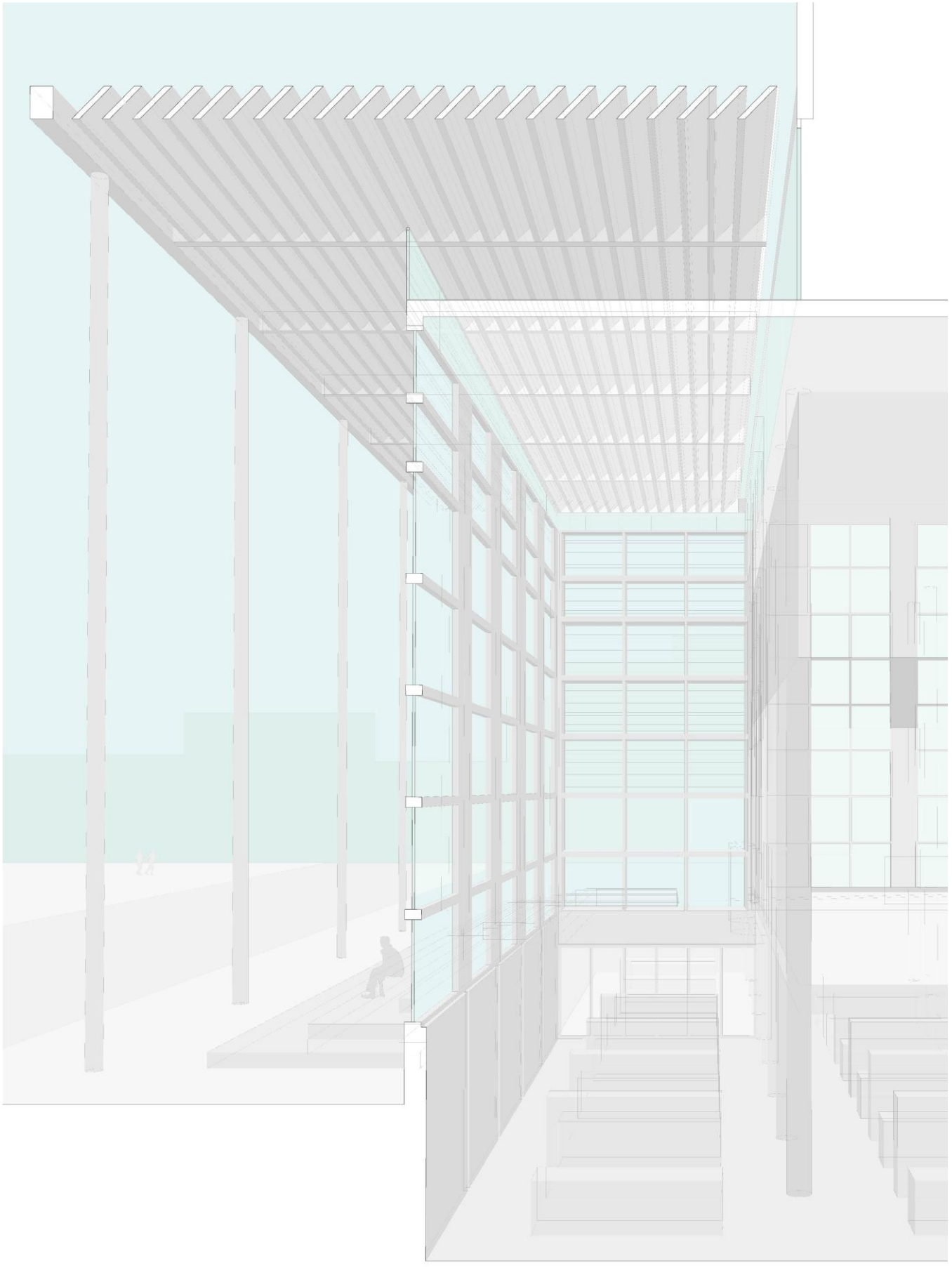
Foster & Partners

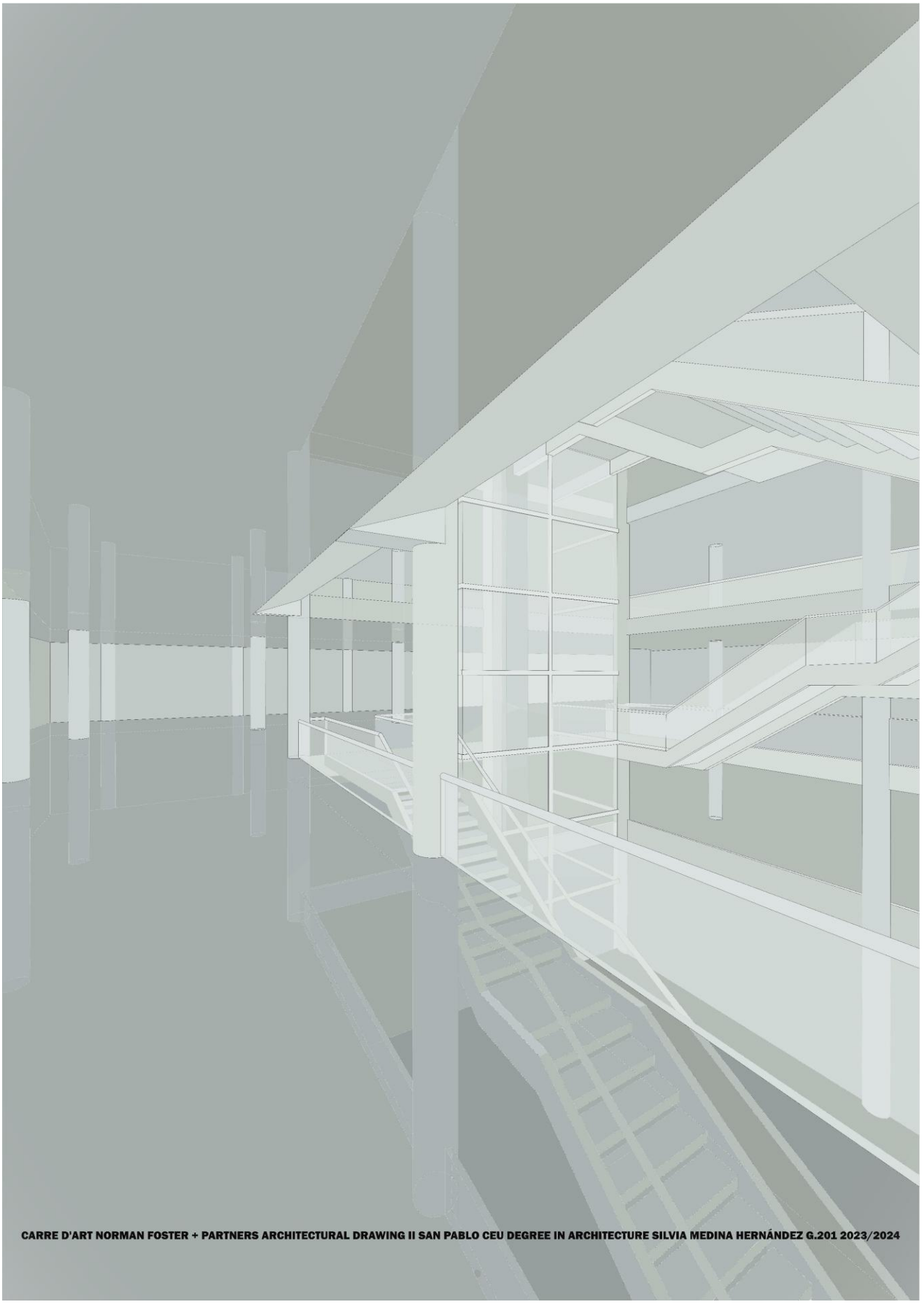


CARRÉ D'ART. NIMES, FRANCE. FOSTER + PARTNERS 1984-1993



CARRÉ D' ART, NIMES, FRANCE, FOSTER + PARTNERS 1984-1993 ADRIANA SANCHEZ JEREZ G.201 ARCHITECTURAL DRAWING II




CARRE D'ART NORMAN FOSTER + PARTNERS ARCHITECTURAL DRAWING II SAN PABLO CEU DEGREE IN ARCHITECTURE SILVIA MEDINA HERNÁNDEZ G.201 2023/2024


MARINA ICIAR FERNÁNDEZ FERNÁNDEZ
Carré D'Art - NORMAN FOSTER

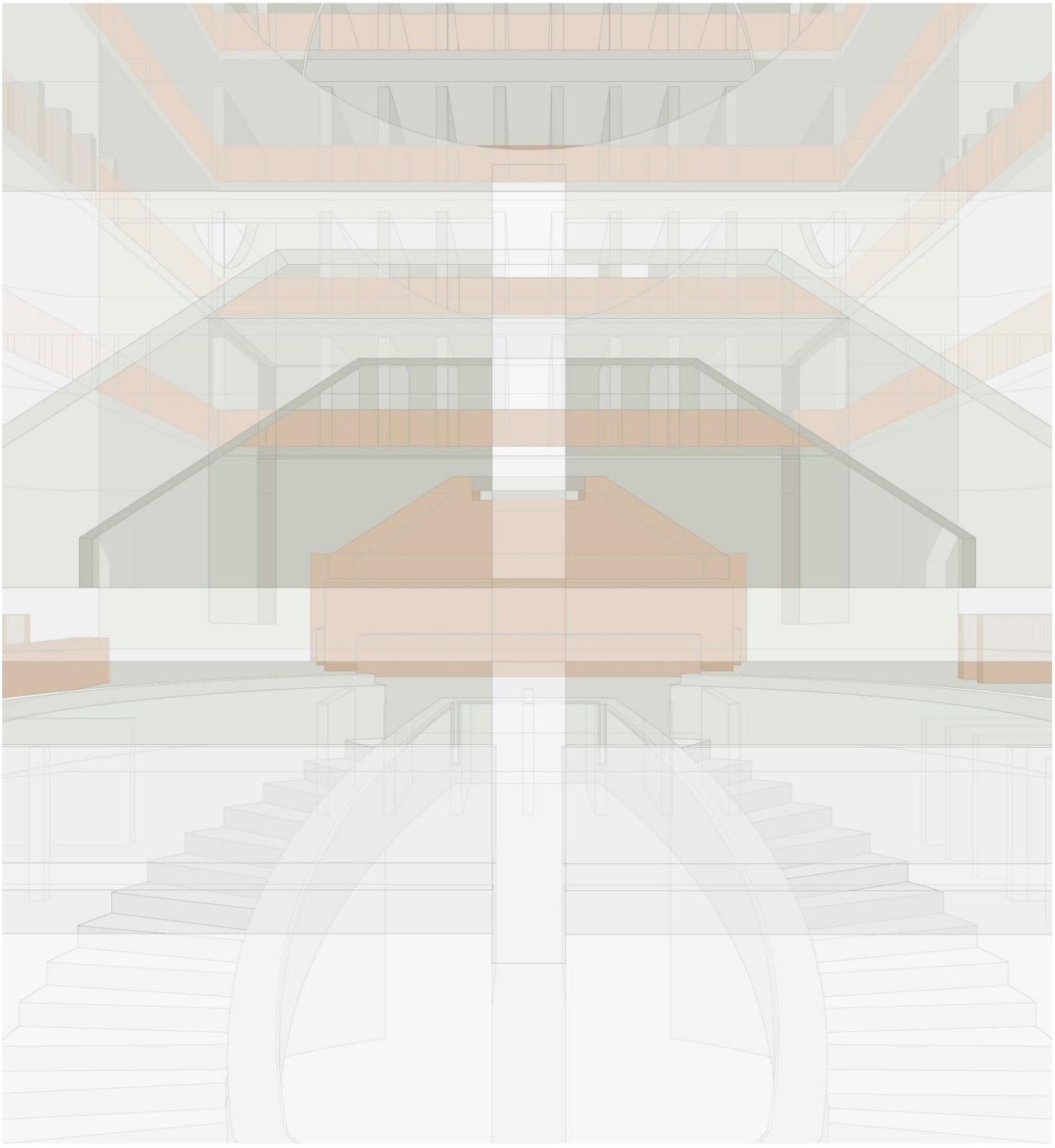
Phillips Exeter Library (Biblioteca Exeter), New Hampshire

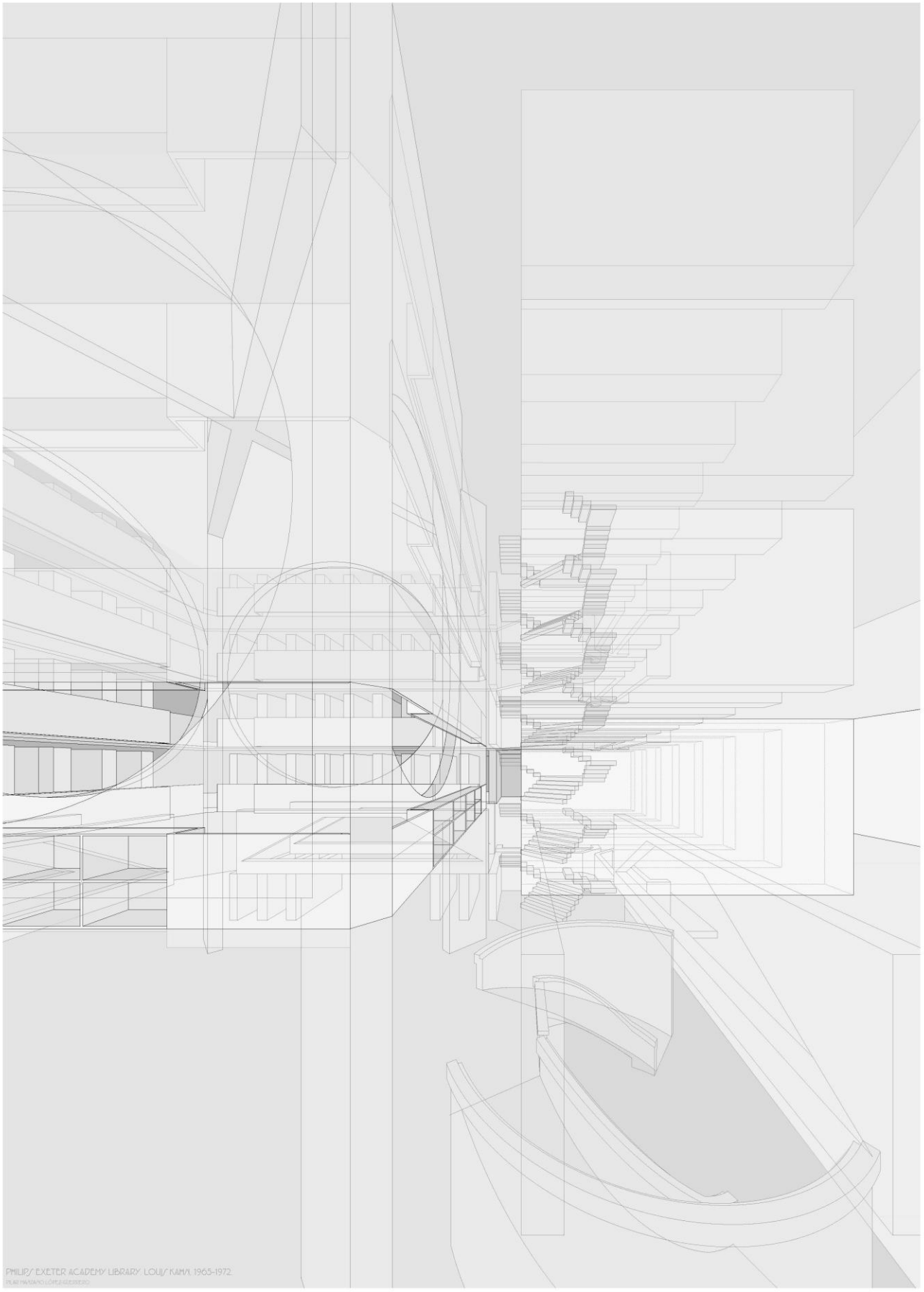
Louis Kahn



ARCHITECTURAL DRAWING II 2022/23
Louis Kahn: Phillips Exeter Academy Library New Hampshire, Usa (1965-72)
Enrique San José [PERSONAL DRAWING]



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