

ARQUITECTURAL PORTFOLIO

Jose L. Rayos

(MArch&MES)

2003-2013

JOSÉ L. RAYOS, SENIOR ARCHITECT

Madrid, Spain (EU), 1973

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## EDUCATION

2003 Master in Architecture (MArch) from *Universidad Politécnica de Madrid (UPM)*, Spain (EU), *Escuela Técnica Superior de Arquitectura de Madrid (ETSAM)*

2010 Master in “*Enviromental Studies and Bioclimatic Architecture Program*” (MAYAB) from *Universidad Politécnica de Madrid (UPM)*, Spain (EU).

## PROFESSIONAL AFFILIATION

-*Colegio Oficial de Arquitectos de Madrid* (COAM license nº15.409), Architects Association from Madrid since 2003.

## WORK EXPERIENCE

-DESIGN ARCHITECT & CONSTRUCTION MANAGEMENT as PRINCIPAL.

2011- 2012 \_Apartment Renovation, 500 sq ft, Madrid (Spain), Design Architect.

2009-2010 \_Andrade´s Residence, 2,700 sq ft, Torremocha, Madrid (Spain), Design Architect.

2007-2008 \_Hernando´s Residence. 2,000 sq ft, Cuenca (Spain), Design Architect.

2006 \_House Renovation, 2,150 sq ft, Madrid (Spain), Design Architect.

2004-2005 \_Residence Renovation, 2,500 sq ft. Cañizar, Guadalajara (Spain) Design Architect

-INTERN ARCHITECT & ASSISTANT CONSTRUCTION MANAGMENT

2011 **ARQUITECTURA NORTE, S.L. Héctor Barrio**

2010-2011 **SANTOS BEMBUNAN Arquitectos, SL**

2008-2009 **IDM+MODULAB+HERREROS ARQUITECTOS SL**

2007-2008 **Rafael Robledo Ruiz Arquitectos,SL**

2005-2007 **Rafael Beneytez Durán Arquitectos,SL**

2005 **Jose María de Arana del Valle \_ Arana y García de Olano Asociados. S.L.**

2003-2005 **Juan Miguel Hernández León Arquitectos,SL + Alvaro Siza Vieira**

## AWARDS

1999 First Prize “Emilio Larrodera” Architects Association Cultural Foundation of Madrid, Urban Planning competiton at Península de Zorrozaurre, Bilbao (Spain)

## COMPLEMENTARY COURSES

2009 / 2010 Technical workshop “City&Enviroment”, Arch. Association Cultural Foundation of Madrid.

2004 Technical workshop “Construction Documents&Management”, Architects Association Cultural Foundation of Madrid.

1999 / 2000 Universidade do Oporto, Portugal. European Scholarship Program for my fith year course in Architecture as part of my seven years Master degree in Architecture.

1994 “Workshop on Bionic Architecture” (Scholarship). by European Doctor in Architecture Javier Pió, at Universidad Politécnica de Madrid. Summer School, Cuenca (Spain).

## OTHER SKILLS

-Graf/Doc skills: Hand Drawing + Autocad + 3DStudio MAX + Adobe Photoshop + Presto + Office Suite.

-Languages: Spanish (mother tonge), Portuguese and English.

-Sculptor: Side business career over the last ten years as Metal Sculptor – making handmade body shapes using mesh, steel rods or wire. His work explores a refreshing perspective on the use of space and lines within sculpture. With a tendency to explore and reveal my imagination and perception of human figures, a subtle world of senses and emotions is expressed by freely shaped curves in the air.



In Spain we have a wide view education about Architecture. Training as an architect in Madrid aims to prepare its architects for a total project development taking responsibility in all phases of design, construction and structural development, contractual and legal aspects. After studies requires a long period of expertise to fit in a specific area and develop a defined path. In my case I have gained extensive experience working on many different projects, both architectural firms and independent professional work.

### Index of projects

Working by my own as Design Architect and doing Construction Management after more than ten years as partner and intern architect in different firms I have had the opportunity to acquire a great experience. During this period I've done a wide range of tasks by my own related to my professional duties in Spain, like writing reports, opinions, certifications, preparing budgets, estimates and also managing licenses. So I've been working directly with my own clients on these selected projects:

- P04\_ 2012 \_Apartment Renovation, 500 sq ft, Madrid (Spain),
- P06\_ 2010 \_Andrade's Residence, 2,700 sq ft, Torremocha, Madrid (Spain)
- P07\_ 2007 \_Hernando's Residence. 2,000 sq ft, Cuenca (Spain)
- P11\_ 2007 \_Olive Mill "Almazara Retamar", 7,000 sq ft Guareña, Badajoz (Spain)
- P13\_ 2005 \_Residence Renovation, 2,500 sq ft. Cañizar, Guadalajara (Spain)

While working as an Intern Architect I assisted in every design phase including concept design, design development and construction document sets while actively participating in meetings for presentation and coordination with clients and consultants, working on mixed use, multipurpose, residential, zoning, feasibility studies and master planning. Coordinate between various disciplines including structure, M.E.P., H.V.A.C., landscape and interior design.

I also assisted firm architect with the daily project management during all phases of the architectural process on private projects, mixed use, residential, and retail. Task included coordination with consultants and clients, as well as designing, drawing and supervising other interns.

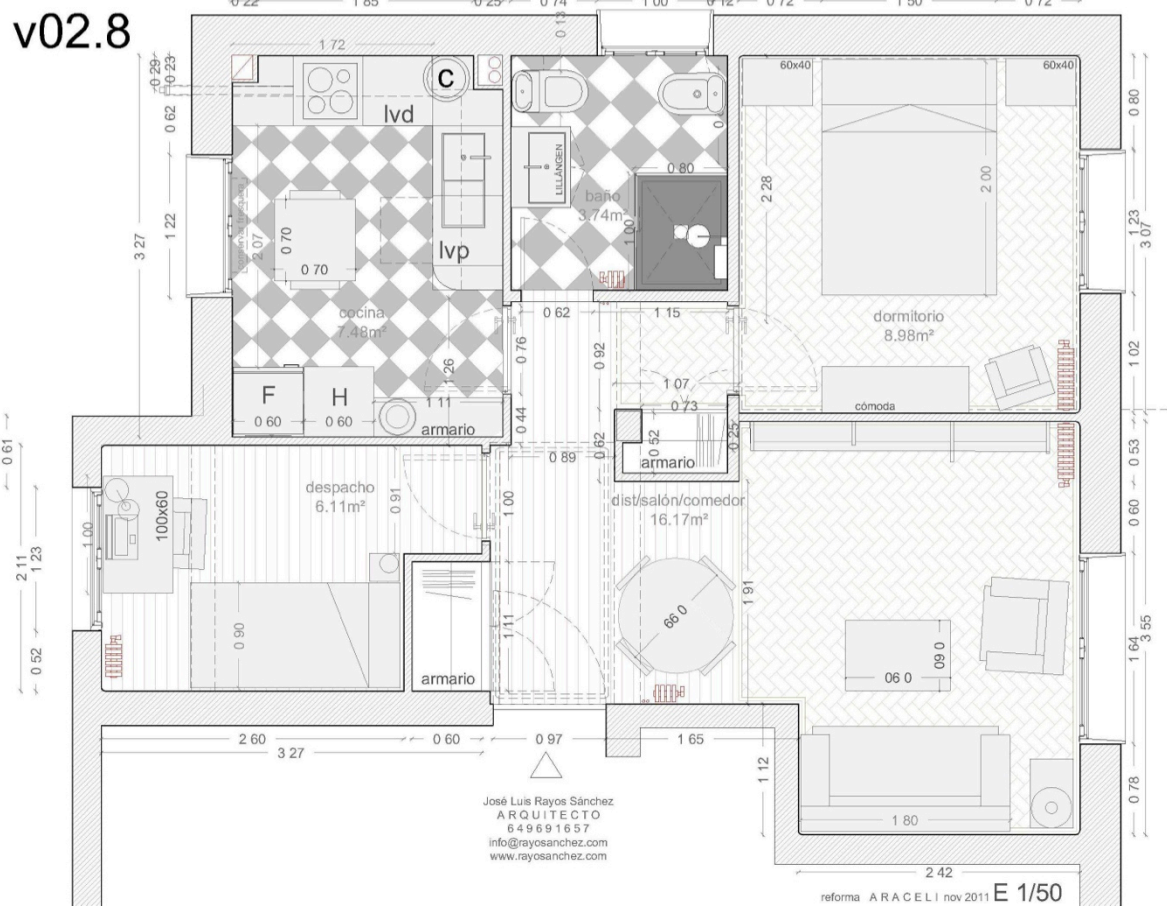
- P15\_ 2011 \_Wellness Complex Facilities: Indoor Pool, Gym & Spa
- P16\_ 2010 \_ING Direct bank offices in Spain
- P17\_ 2009 \_"BASIC10.1": Industrialized prototype for a growing house.
- P19\_ 2009 \_La Salle Campus Extension + Parking
- P22\_ 2008 \_Historical Renovation for Mixed Use.
- P23\_ 2007 \_Historical Renovation-Mixed Use Building.
- P24\_ 2007 \_Renovation of a Luxury Residence.
- P25\_ 2007 \_Historical Renovation-Mixed Use Building.
- P26\_ 2006 \_Restoration of a Building of Apartments and Offices.
- P28\_ 2006 \_Multipurpose Huesca State Congress Palace.
- P30\_ 2005 \_ASTURKAYAK.
- P31\_ 2005 \_Bioclimatic Residence.
- P32\_ 2005 \_House Complex.
- P33\_ 2004 \_CITA
- P34\_ 2004 \_House and Office Renovation
- P35\_ 2003 \_Competition for 36 VPO Building
- P36\_ 2003 \_Competition for the "Reader's House"

Apartment Renovation,  
500 sq ft,  
\$50,000,  
Madrid, Spain (EU)  
Completed: January 2012

Design Architect and Construction Management

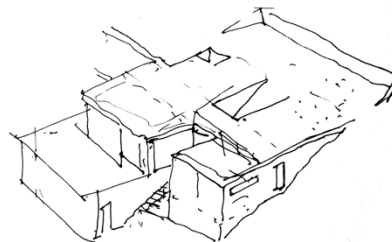
Design and construction of complete renovation of apartment with changing electrical and plumbing installations, changes in plant distribution and replacement windows.

Historical wooden soil conservation (+70 years) with expansion and replacement of old tile floors.

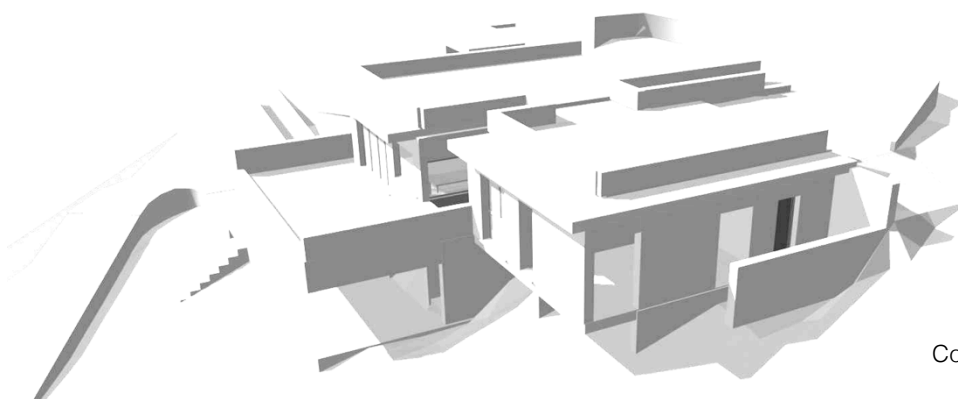


Andrade's Residence  
2,700 sq ft,  
\$300.000  
Torremocha del Jarama, Madrid, Spain (EU)  
Phase: Construcción documents

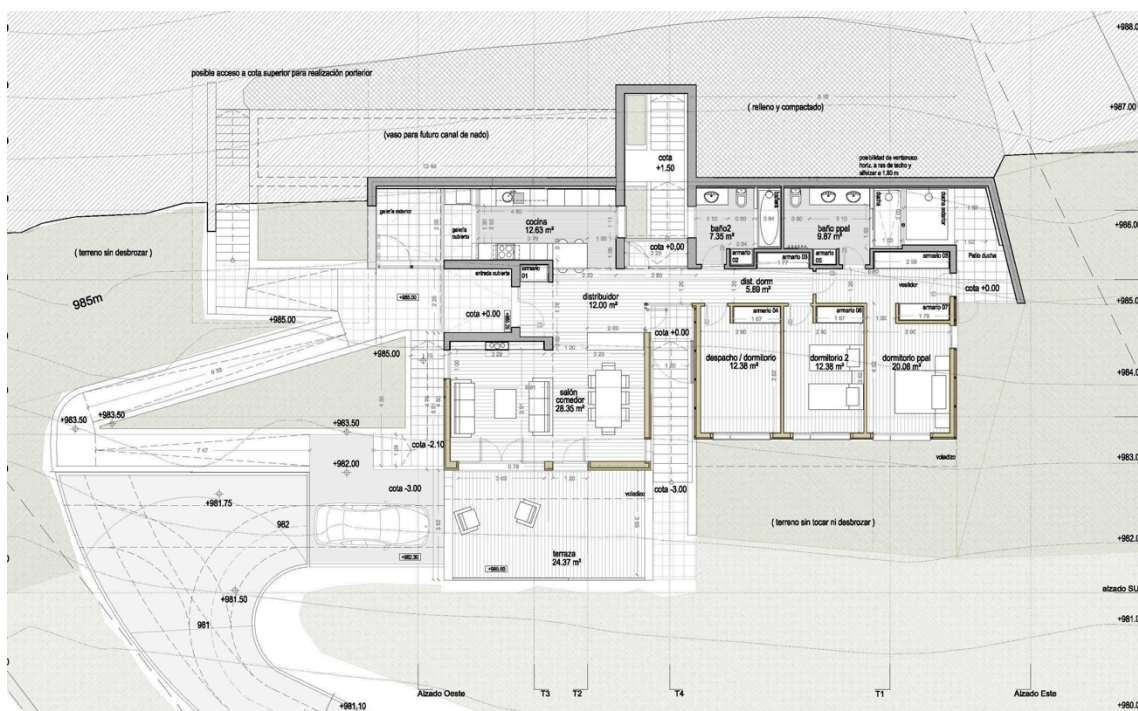
The difficulty of the project was primarily the large slope of the topography and the will of the owner of that housing dialogue fully integrating itself with the environment in topography. The solution included a dialogue on three levels with high permeability including: Lower access with garage, a principal floor with a day-night scheme and the roof garden with a swimming pool in one row.



## First sketches

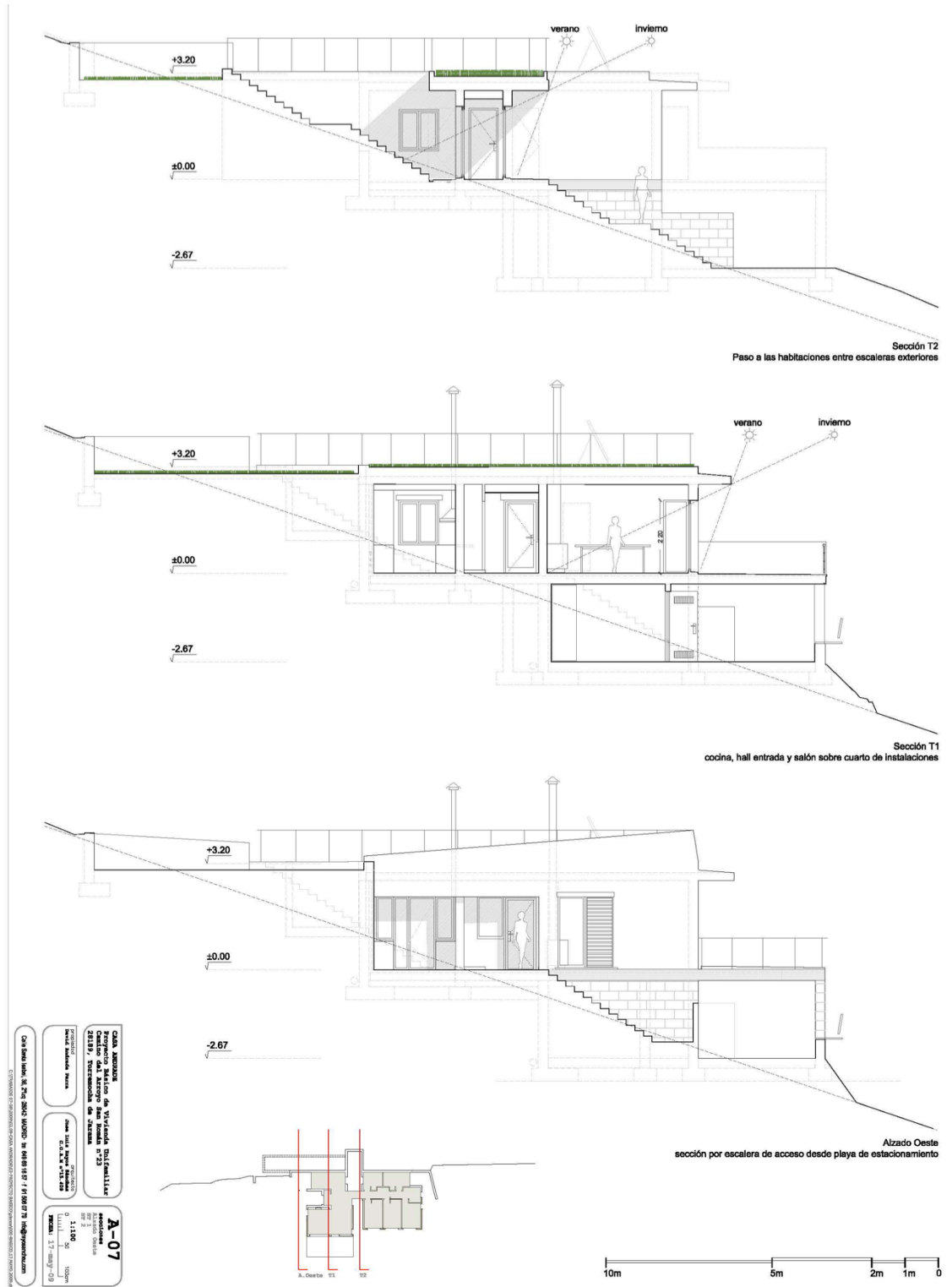


Conceptual 3D sketch



### Main floor plan

Andrade's Residence  
2,700 sq ft,  
\$300.000  
Torremocha del Jarama, Madrid, Spain (EU)  
Phase: Construcción documents



Hernando's Residence

2,000 sq. ft.,

\$200.000

Horcajo de Santiago, Cuenca, Spain (EU)

Phase: Completed 2007

Design Architect and Construction Manager

The first intention of the owner was that the residence should be integrated into the rural environment of a Spanish town located between the coast and the city.

The development project was carried out from the analysis from the needs of a man who retires and leaves the big city.

The architecture should be developed from inside the building. That is, the external appearance should be integrated with its surroundings plastically being the result of the opening up of the internal space needs.



Principal facade (North)



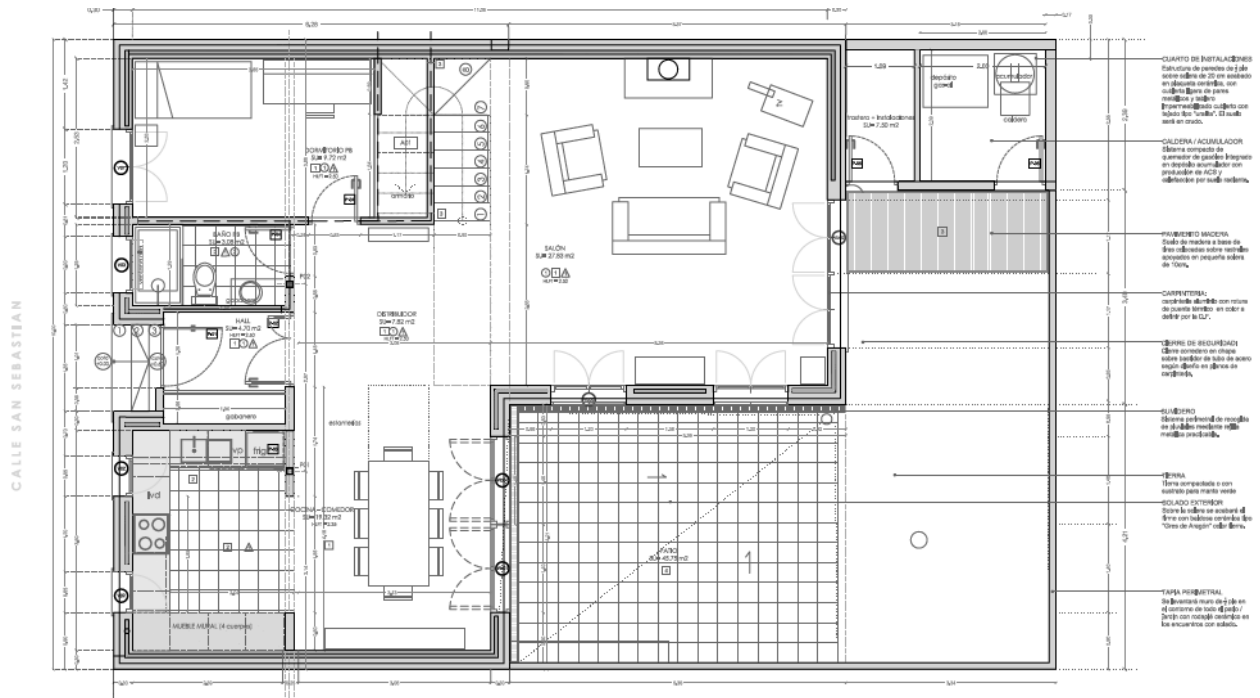
Backyard facade (South)



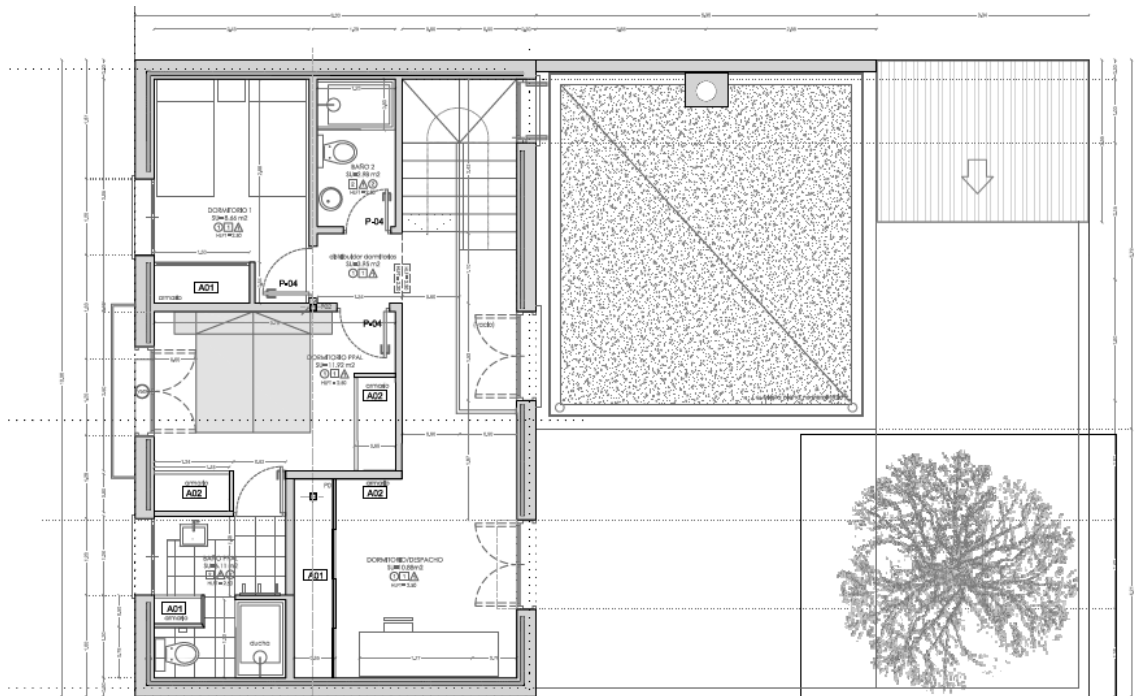
Hernando s Residence  
2,000 sq. ft.,  
\$200,000  
Horcajo de Santiago, Cuenca, Spain (EU)  
Phase: Completed 2007

Design Architect and Construction Management

2006-2007



First floor plan.



Second floor plan.

2006-2007

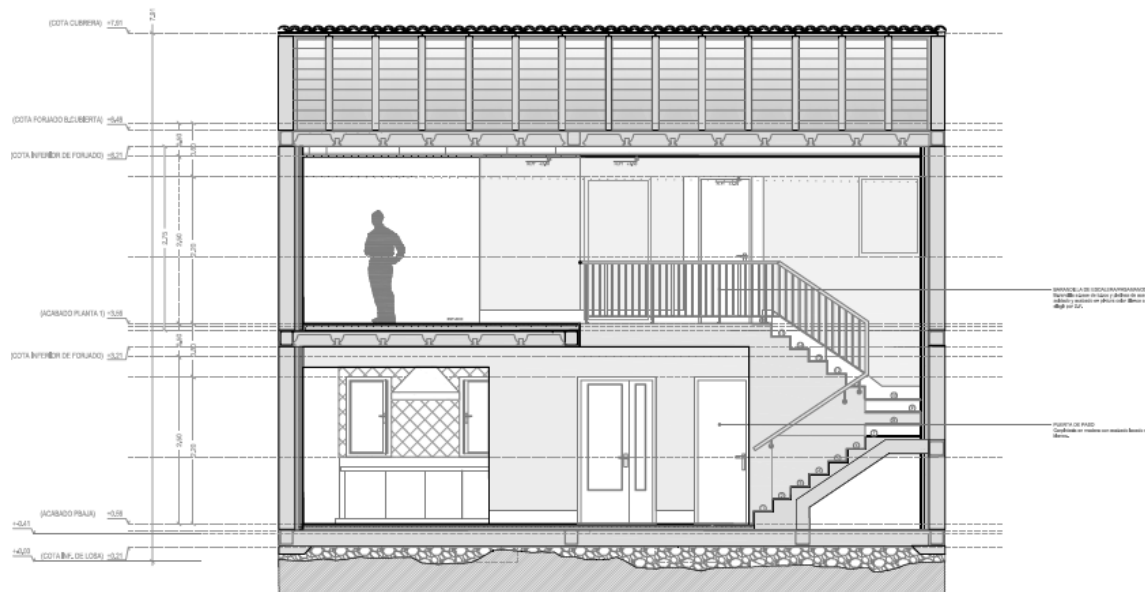
Hernando's Residence

Design Architect and Construction Management

2,000 sq. ft.,  
\$200,000

Horcajo de Santiago, Cuenca, Spain (EU)

Phase: Completed 2007



2006-2007

Hernando's Residence

2,000 sq. ft.,

\$200.000

Horcajo de Santiago, Cuenca, Spain (EU)

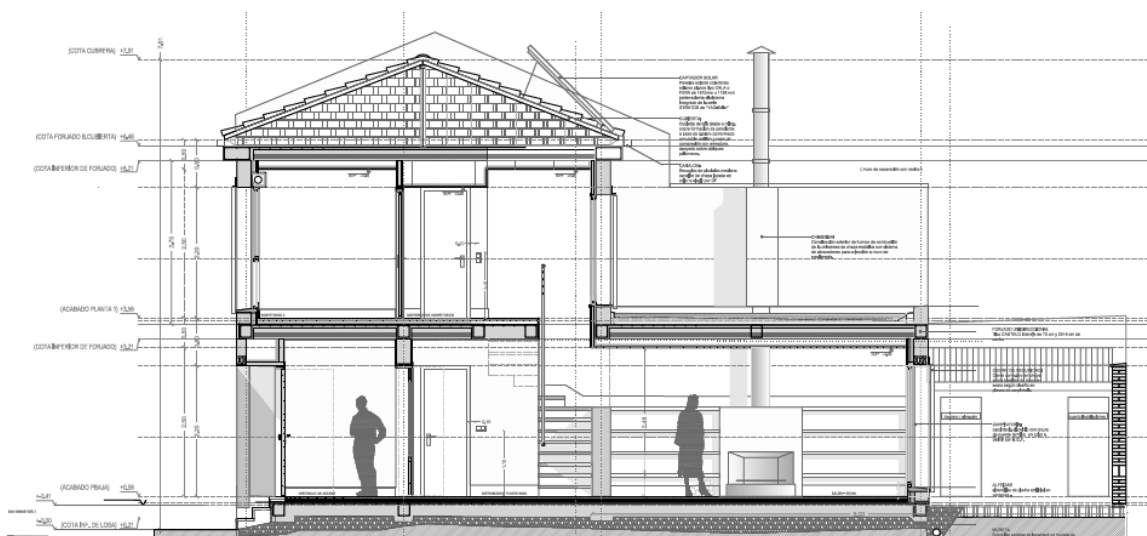
Phase: Completed 2007

Design Architect and Construction Management

The main section reflects the special continuity is established between the two levels of the house. Downstairs asisgada to function day and night over the function. The dealer driveway provides a point of arrival and giving way to cast each of the areas of the home.

In relation to sustainability criteria in their energy balance construction techniques were used to

extreme weather site providing thermal mass to the interior finishes. Hot water and underfloor heating (fully monitored) from solar panels with a contribution of over 70% over a year on average, with an investment amortized in less than three years in diesel consumption.



Main section



Interior views

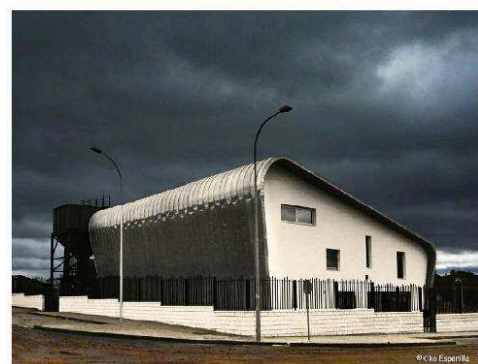
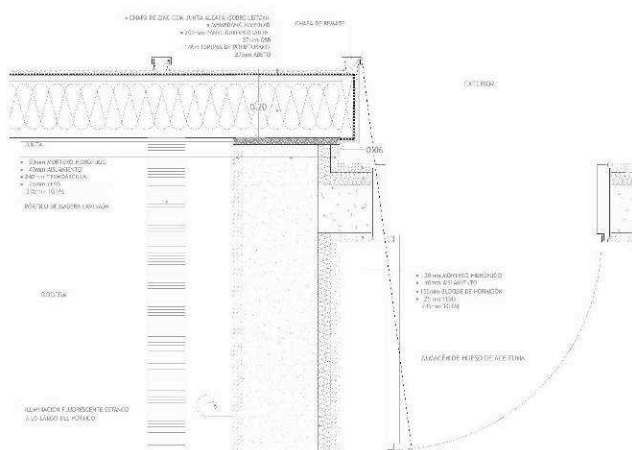
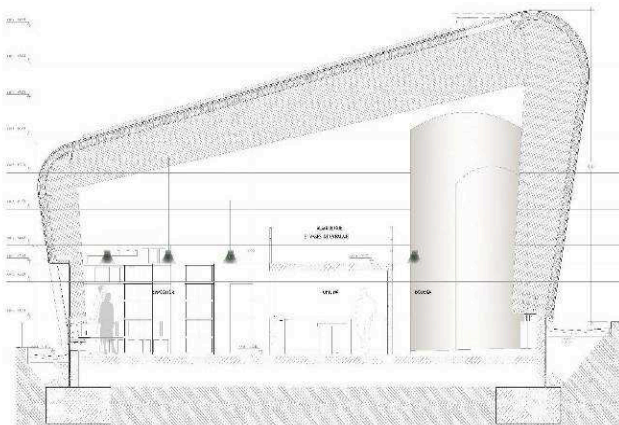
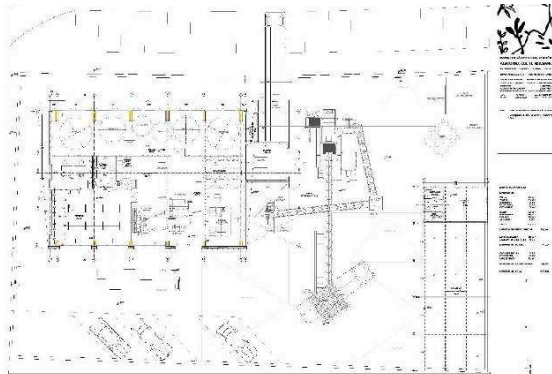


Olive Mill "Almazara Retamar"  
70,000 sq ft,  
\$1,2M  
Guareña, Badajoz, Spain (EU)  
Phase: Completed 2009

Partner with Anne Vogt

2008-2009  
Design Architect

Design complete treatment plant, storage and sale of olive oil and regulations. Guareña family business, an important oil production nationwide, with art industrial facilities and sustainability criteria applied in its construction.



Olive Mill "Almazara Retamar"  
70,000 sq ft,  
\$1,2M  
Guareña, Badajoz, Spain (EU)  
Phase: Completed 2009

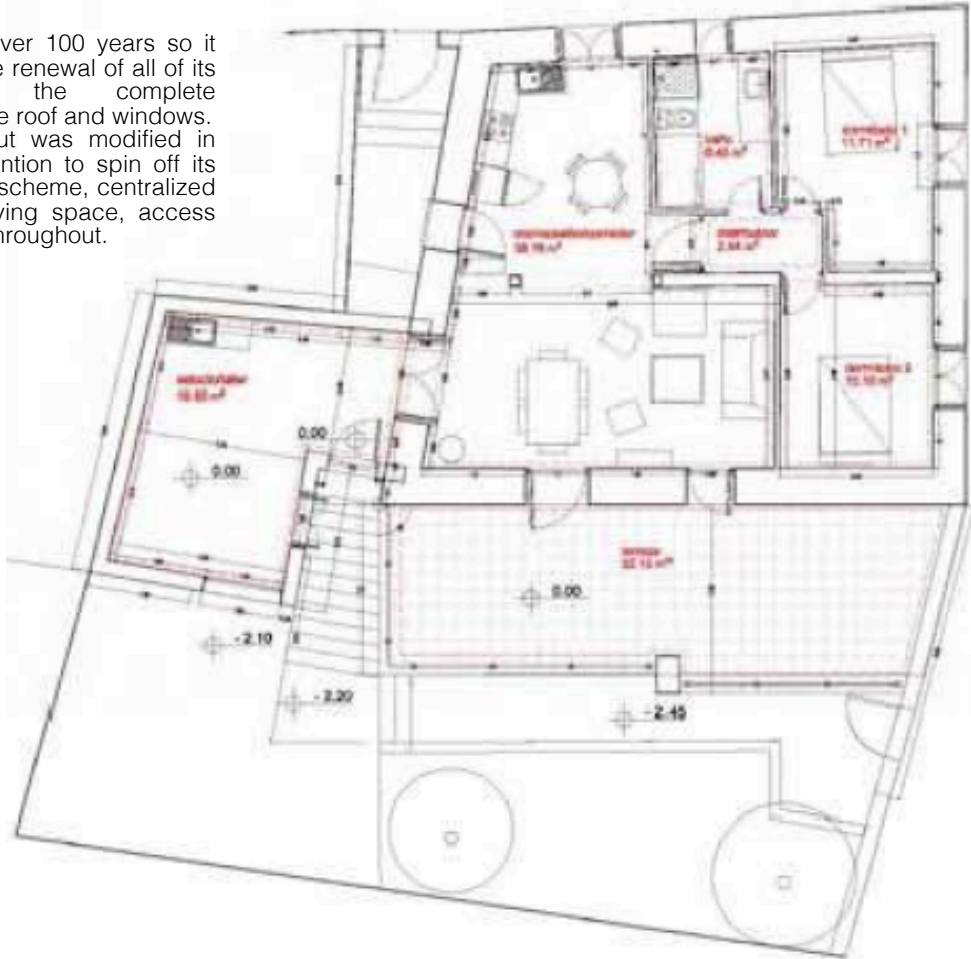
2008-2009  
Partner: Anne Vogt  
Design Architect



Integral housing rehabilitation with expansion.  
2,000 sq ft,  
\$100,000  
Cañizar, Guadalajara, Spain (EU)  
Phase: Completed 2005

Design Architect and construction management

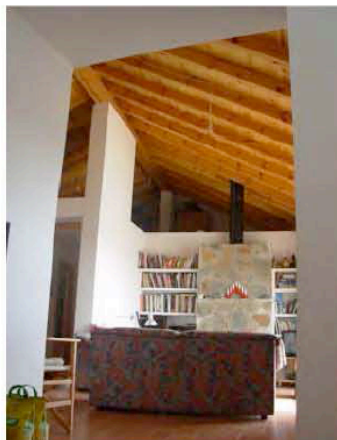
The building is over 100 years so it was proposed the renewal of all of its facilities and the complete replacement of the roof and windows. The interior layout was modified in part with the intention to spin off its use as day-night scheme, centralized in one area a living space, access and circulations throughout.



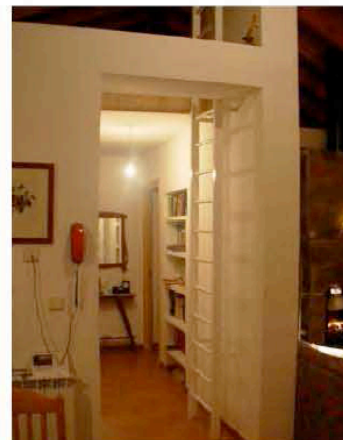
Main floor plan



External views

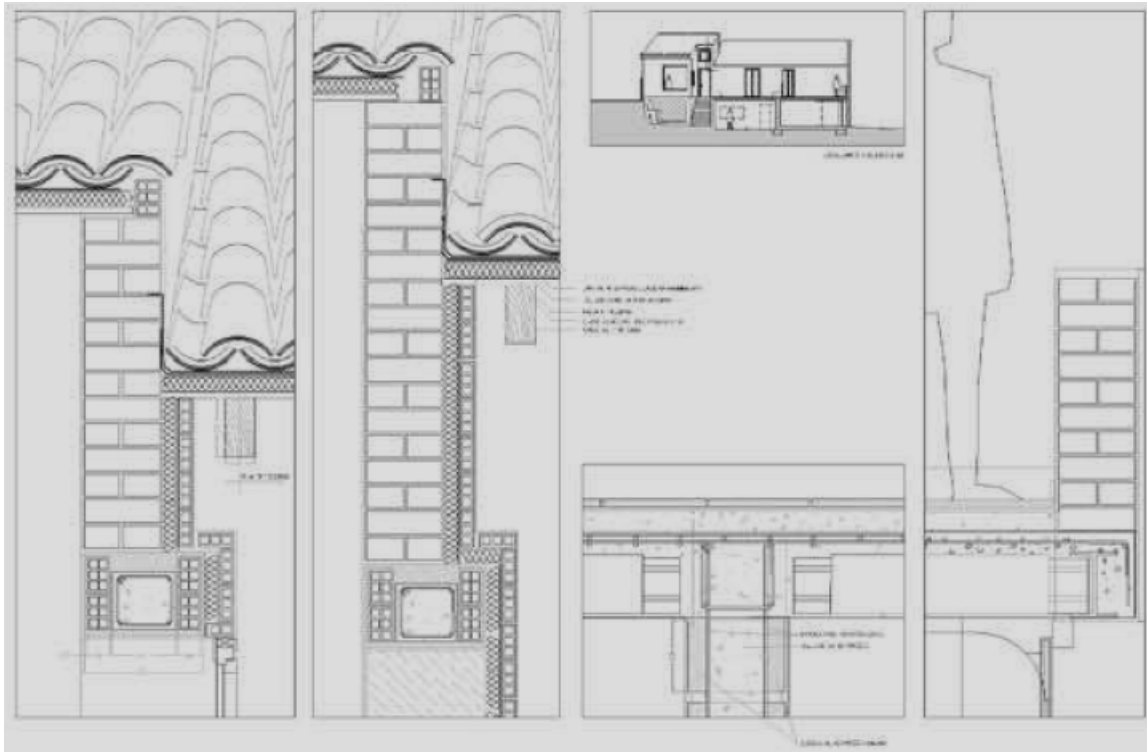


Living

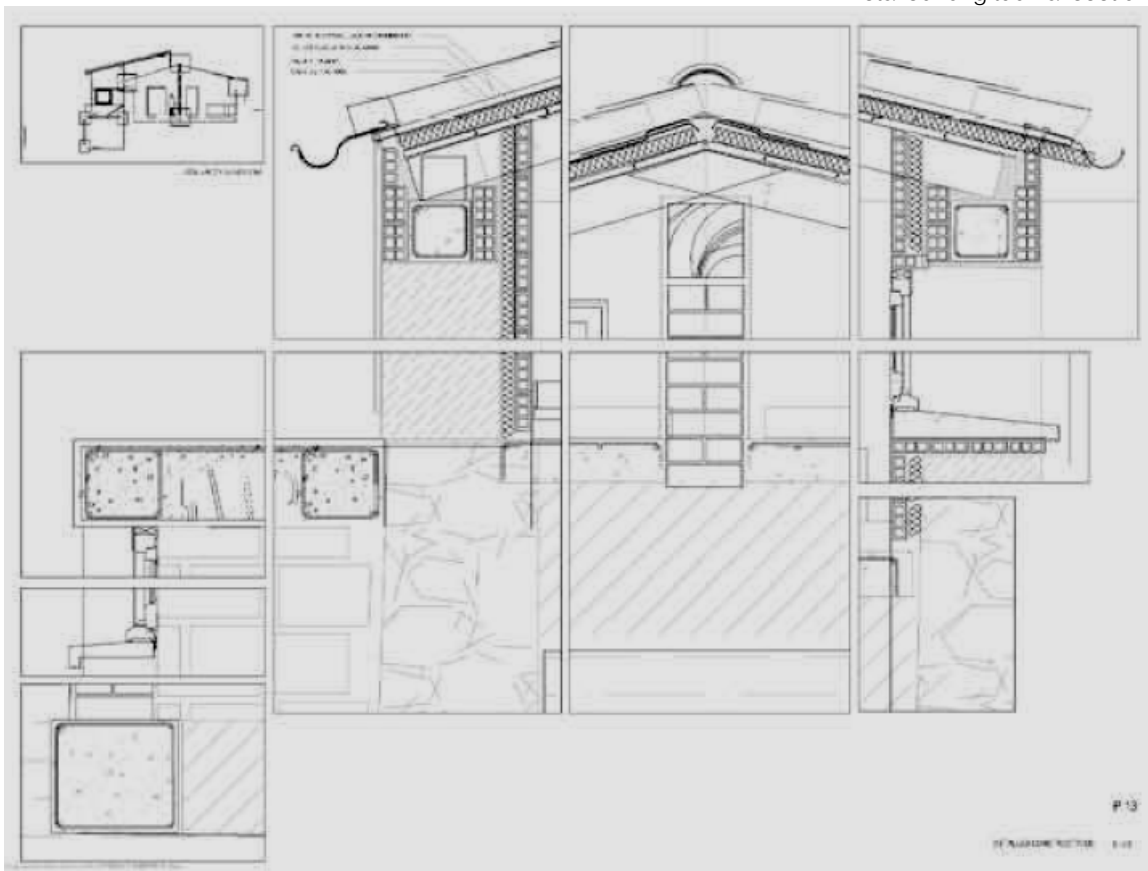


Acces to bedrooms





Detailed longitudinal section.



Detailed cross section.

**Arquitectura Norte, SL – Arch. Héctor Barrio**

Wellness Complex Facilities: Indoor Pool, Gym & Spa, (4)

“Club Social Santo Domingo”

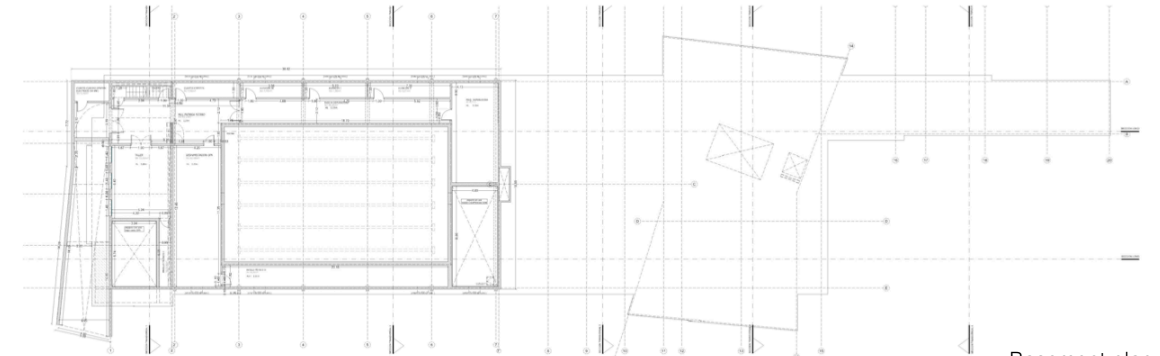
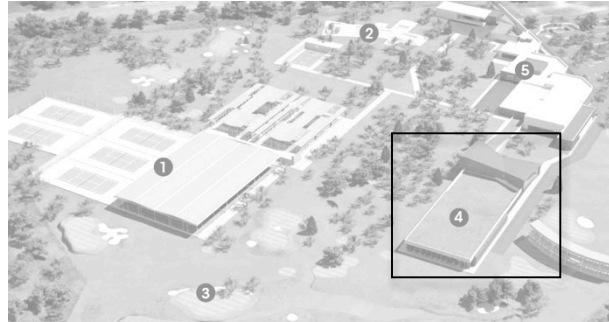
75,000 sq ft

\$8M

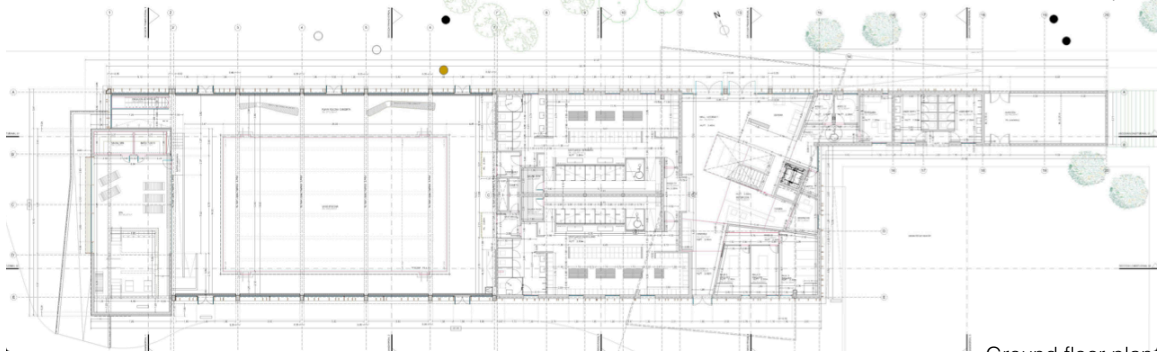
Algete, Madrid (Spain)

**Intern Architect:** Plans Drawings, Solving Constructive Details, Construction Documents.

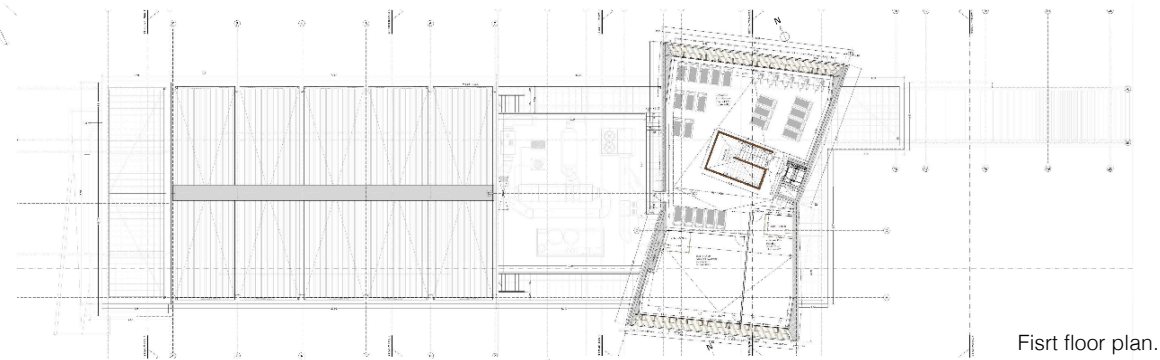
Starting from the first sketches I was the principal assistant in the firm drafting plans and writing construction documents, solving problems, constructive details. And coordinating development of project, while doing Intermediation with structural engineering and HVAC.



Basement plan.



Ground floor plan.



First floor plan.

**Santos Benbunan Arquitectos**

Architectural design and implementation of activity INGDirect bank offices in Spain.

32,000 sq ft,

\$3 M

Madrid, Barcelona, Valencia, Zaragoza, Palma de Mallorca, Valladolid, Gijón., Murcia y Málaga.

**Intern Architect:** Drawing & Construction Documents and Management.

Drawing of plans, writing construction documents, solving problems and constructive details. Coordinating development of project Intermediation with HVAC engineering. Construction documents and construction details.



Calle O'Donnell n°4, Madrid



Gijón, Asturias



Calle San Bernardo n°4, Madrid



Paseo de las Acacias, 5, Madrid



Valencia



Móstoles



Interior view: Attendant desk.

Example Plan: INGDirect Offices, Murcia (Spain)

**Herreros Arquitectos SL + IDM + MODULAB**

Industrialized prototype for a growing house. "BASIC10.1"

Useful Area, Basic type 10/1: 75m<sup>2</sup> (4 moduls + mezzanine)

200.000€ + exterior works

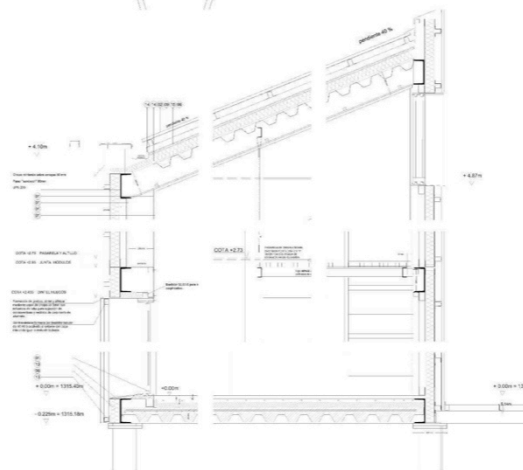
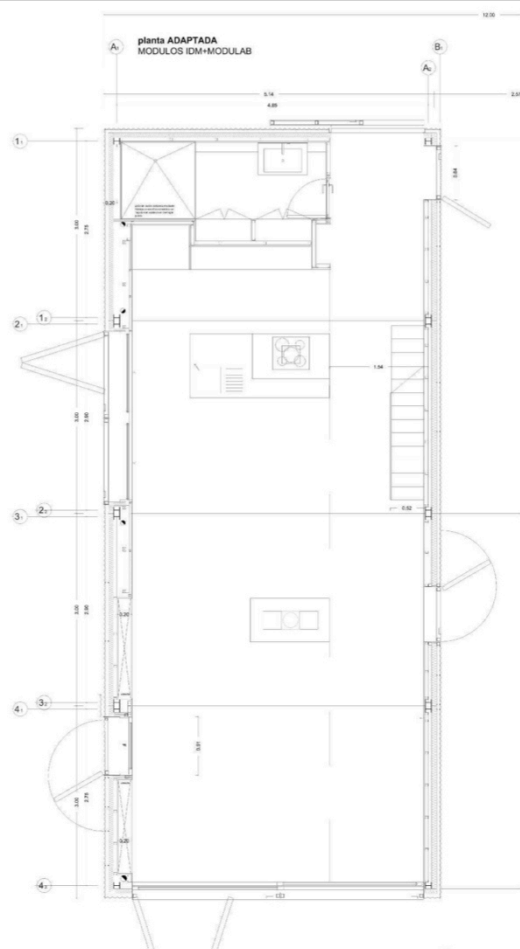
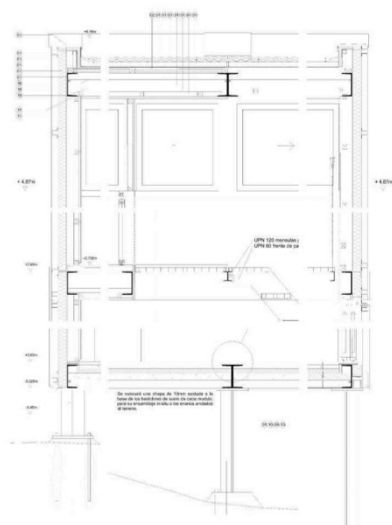
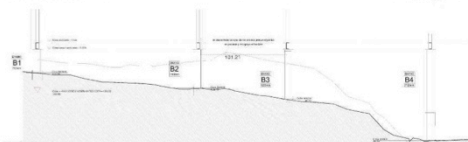
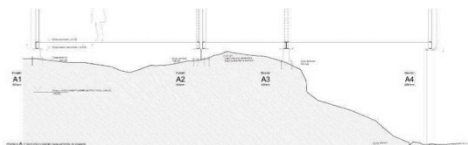
\* decreasing costs if bigger area:

2.700 €/m<sup>2</sup> for 75 m<sup>2</sup>(min.) 2.400 €/m<sup>2</sup> for 150 m<sup>2</sup>, 2.000 €/m<sup>2</sup> for 250 m<sup>2</sup>

**Assistant Architect:** Drawings, Solving Constructive Details and Construction Documents.

Industrialized modular housing prototype that allows growth and changes over time. All building systems, are ready to be installed without complex construction procedures.

This elements are manufactured in specialized factories composing single complete units, including all the interior finishes, up to the maximum size supported by the conventional transport





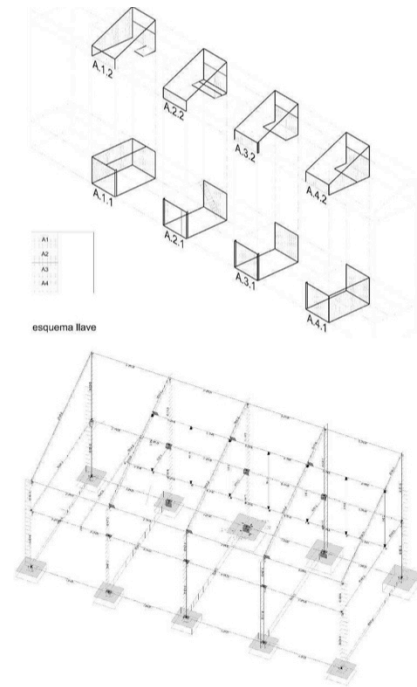
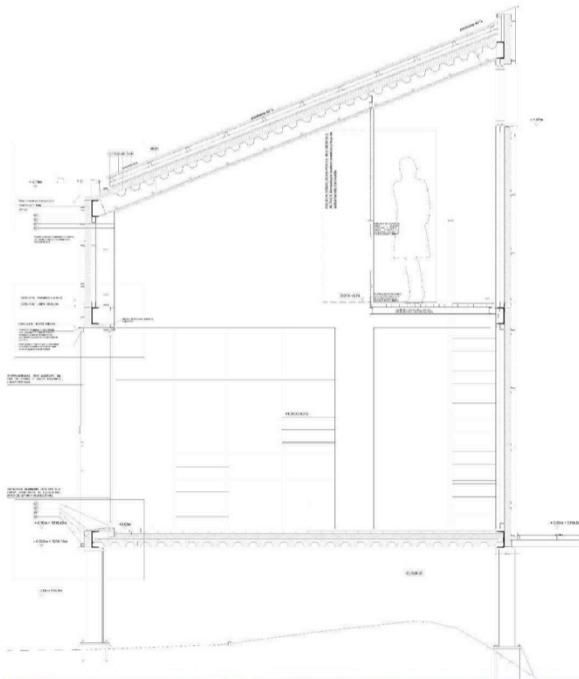
**Herreros Arquitectos SL + IDM + MODULAB**

Industrialized prototype for a growing house.

Useful Area, Basic type 10/1: 75m<sup>2</sup> (4 moduls + mezzanine)

200.000€ + exterior works

**Assistant Architect:** Drawing, Solving Constructive Details and Construction Documents.





**AMPS – Arq: Alberto Marcos & Pablo Saiz**

La Salle Campus Extension, restoration and remodeling + Parking

60,000 sq ft,

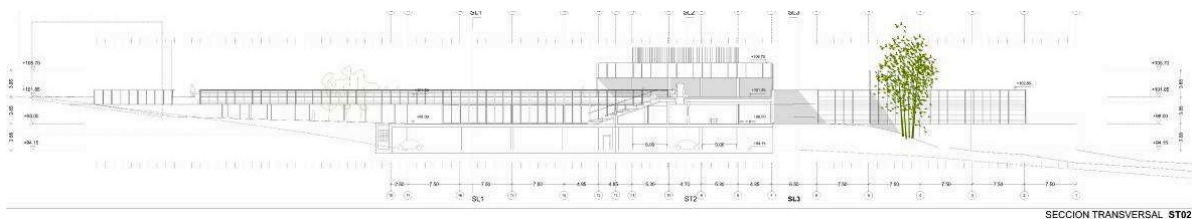
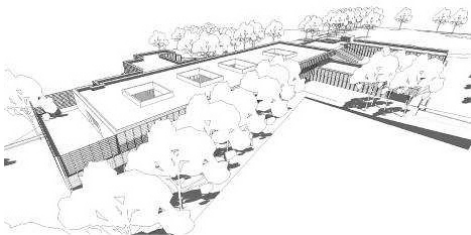
\$6.5 M

Madrid, Aravaca (Spain)

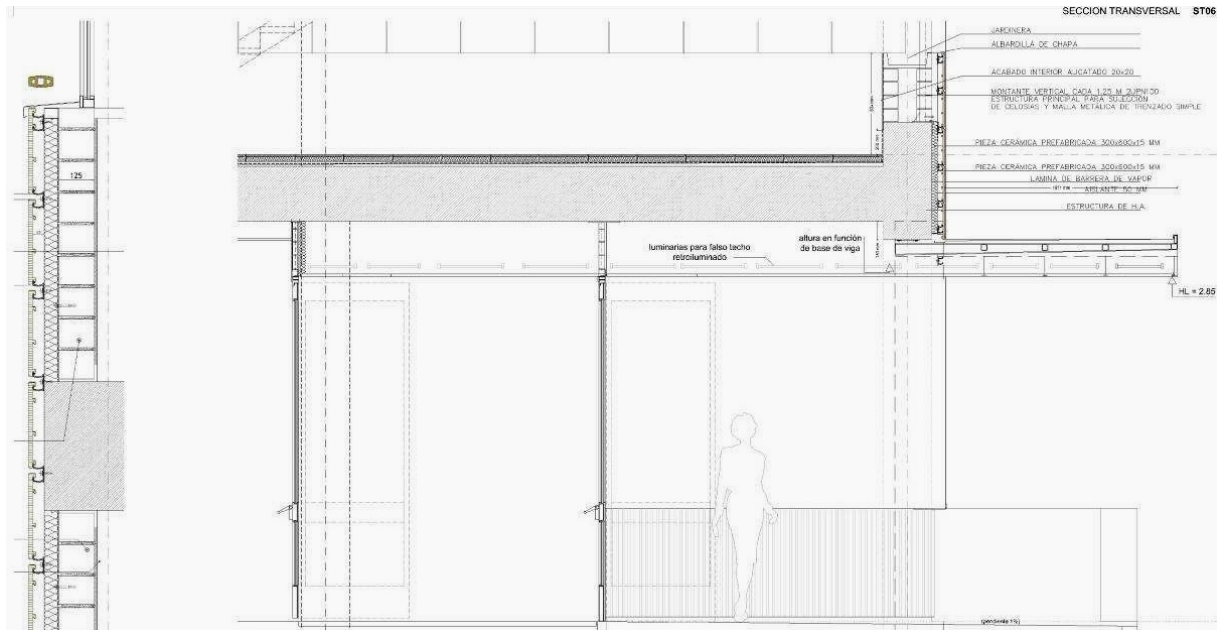
**Intern Architect:** Architectural Design & Construction Documents.

Selected by COAM (Arch. Asociation from Madrid) as one of the top 100 buildings in the world in the last two years by Madrid architects. Edited Book "100% Architecture II"

The project is based on three fundamental concepts: the least impact on the area looking for the best integration and maximum energy efficiency (the building is undergoing LEED certification), universal accessibility, and empowering meeting places between different uses.

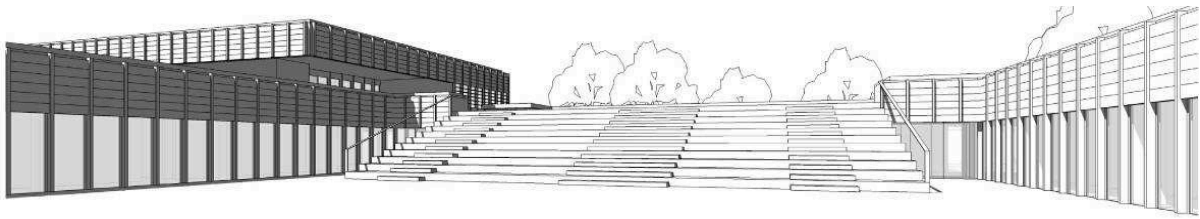


SECCION TRANSVERSAL ST02



SECCION TRANSVERSAL ST06









**Firm: Rafael Robledo Arquitectura**

Restoration of a Residential Building, Offices and Private Parking

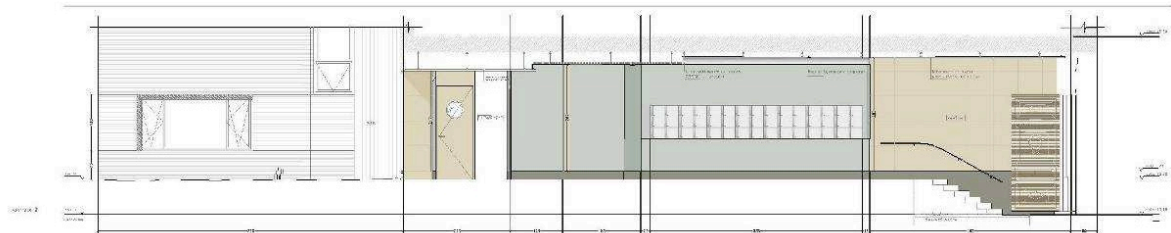
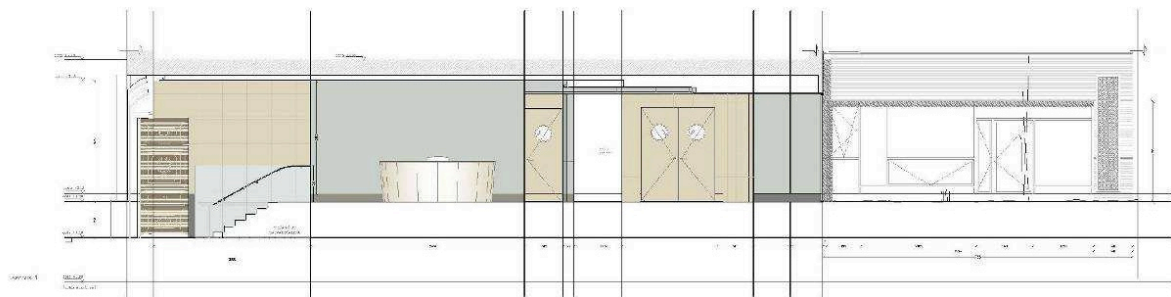
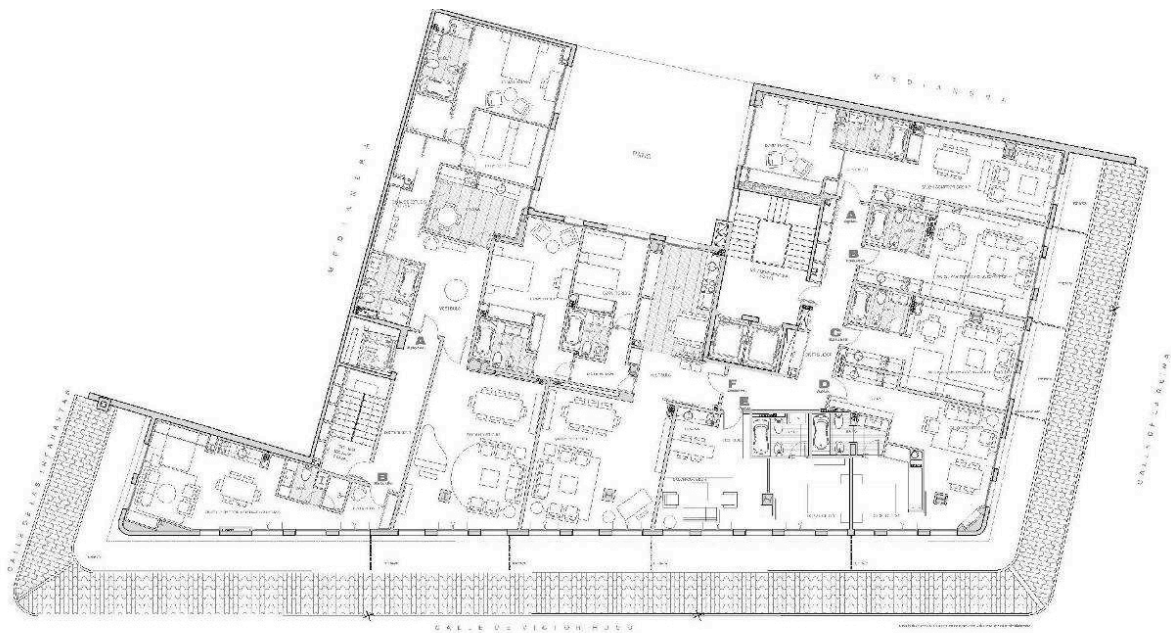
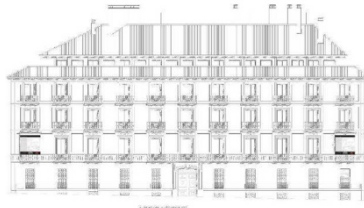
72,000 sq ft,

\$8 M

4 Victor Hugo St., Madrid (Spain)

**Intern Architect:** Architectural Design & Construction Documents.

Distinction and exclusivity in a historic building of 43 apartments, all with exterior, 4 floors plus penthouses, terrace with solarium and Jacuzzi and 3 garage floors. The homes of 1, 2 and 3 bedrooms and external studies have the latest in comfort and technology.





**Rafael Robledo Arquitectura**

Restoration of a Building of Apartments, Offices and Robotic Parking

50,000 sq ft,

\$6 M

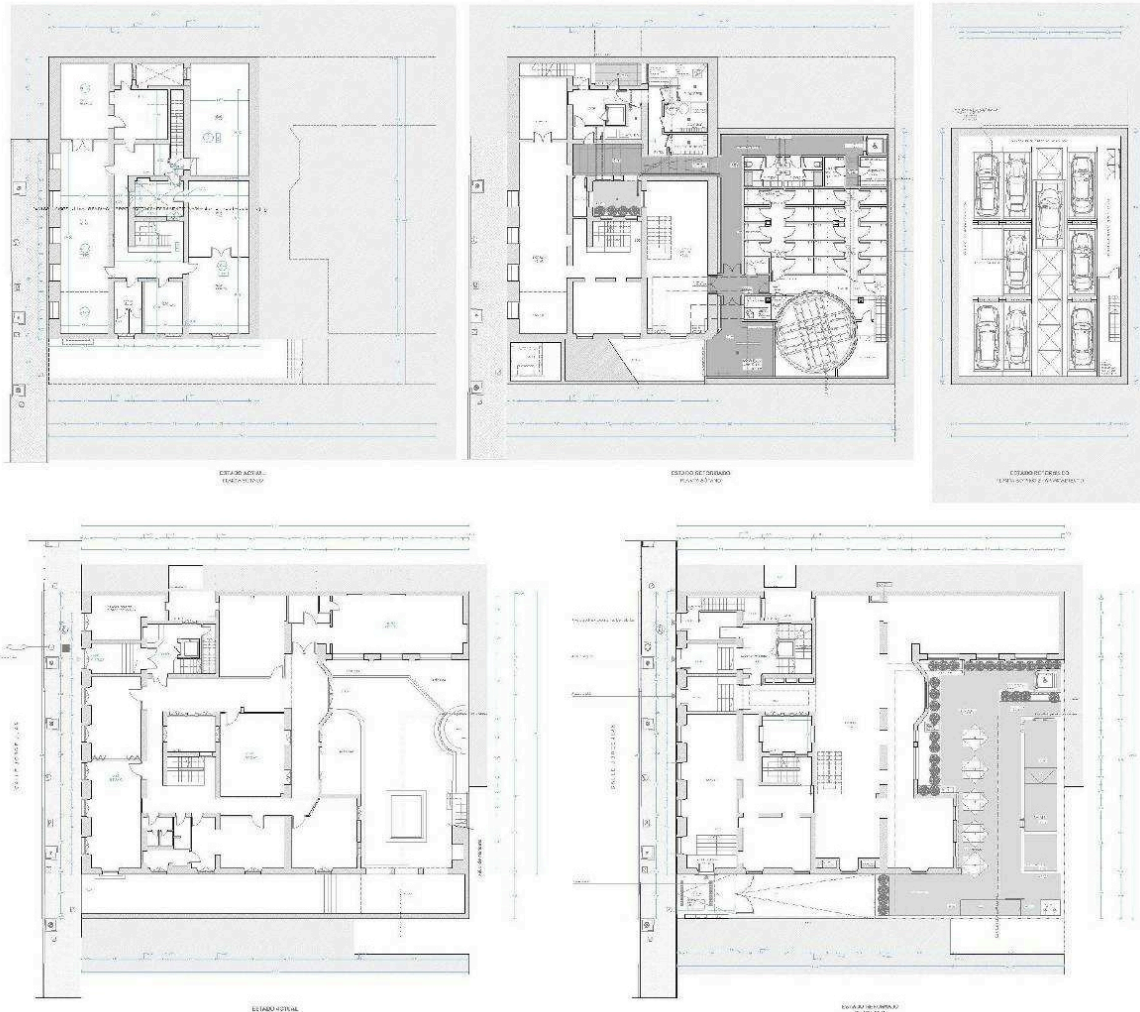
32 Jorge Juan St., Madrid (Spain)

**Intern Architect:** Architectural Design & Construction Documents.

The building, which was built in 1904, has been classified with structural protection. The project improves the accessibility, livability and residential use is returned.

The main facade is representative of the nineteenth-century bourgeois house.

By the fusion of their existing decorative elements is obtained the main reason that we use in the restored gates of the main façade, also the sliding shutters to block courtyard facades and generally in all newly created elements incorporated in the intervention.



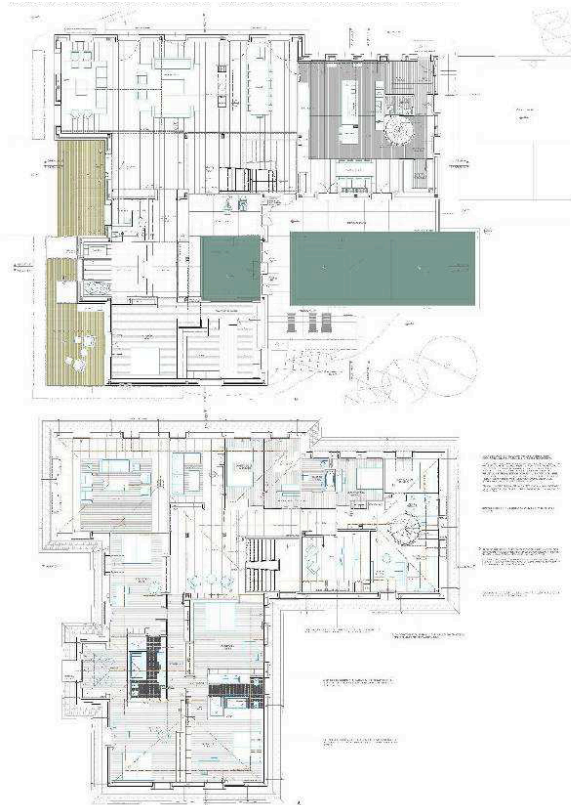
**Rafael Robledo Arquitectura**  
Renovation Luxury Residence  
30,000 sq ft,  
\$4,5 M

Urb. Conde Orgaz Madrid (Spain)

**Intern Architect:** Architectural Design & Construction Documents.

Comprehensive reform of family house in the exclusive estate of Count Orgaz, with pool installation and landscaping outside. Distributed in basement, with a garage for seven cars, ground principal and under cover, is identified by the amplitude of its different spaces and use of art materials.

It becomes a home built in the 40's in a functional home with an actual design.





**Rafael Robledo Arquitectura**

Restoration of a Building of Apartments.

35,000 sq ft,

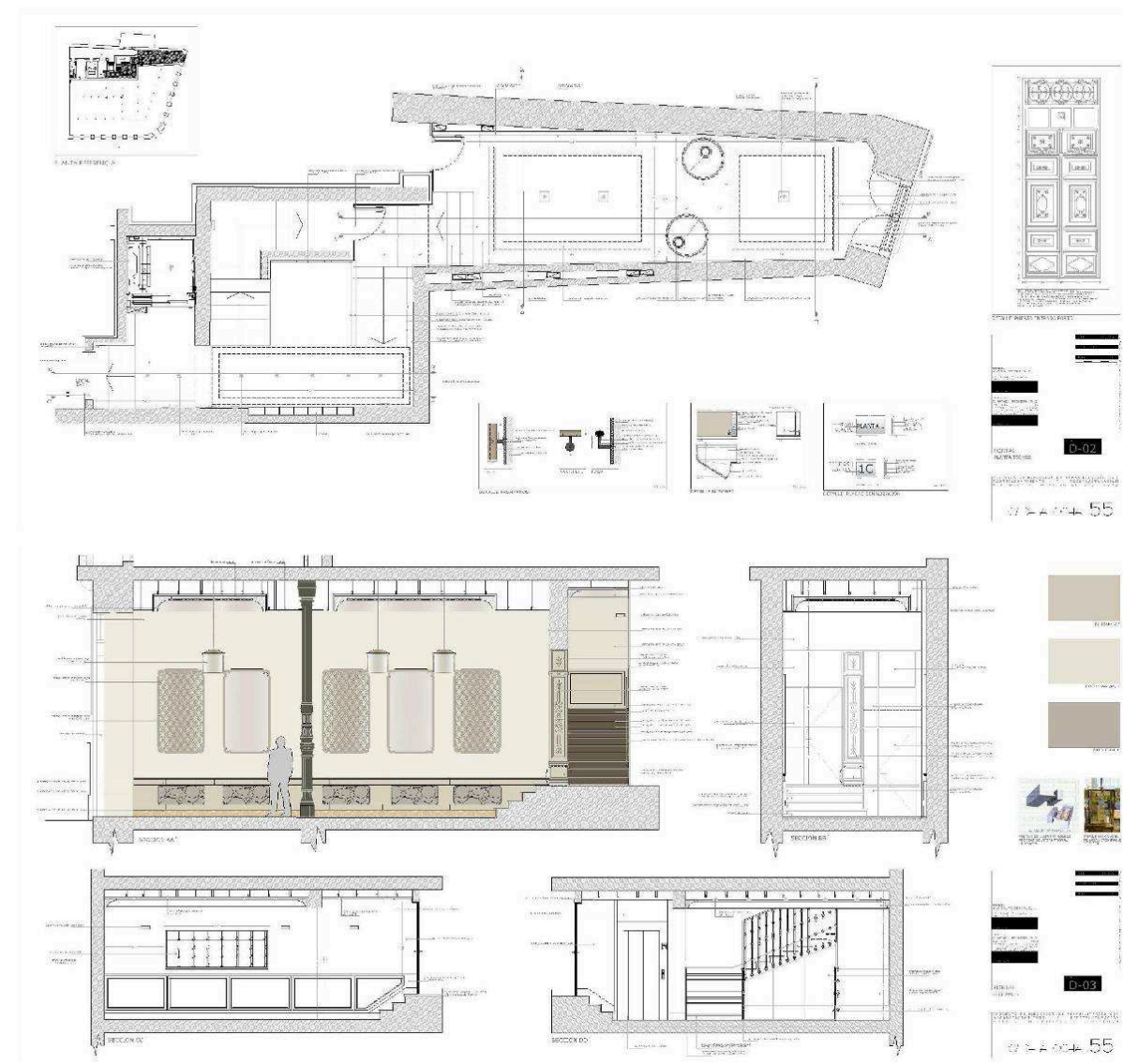
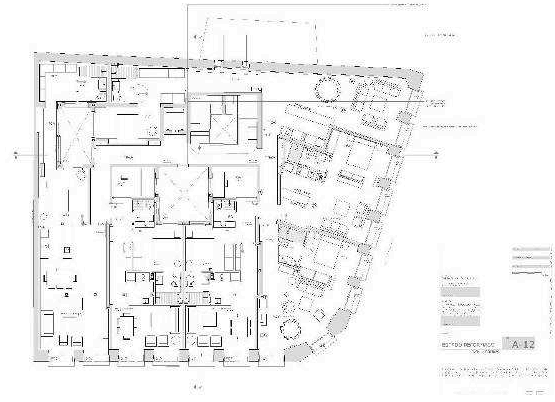
\$5 M

55 Atocha St., Madrid (Spain)

**Intern Architect:** Architectural Design & Construction Documents.

Rehabilitation of listed building to build 25 apartments in four heights and penthouse, with one and two bedrooms, ground floor office and storage rooms in basement. The restoration of the building, built in 1887, were respected in their entirety the stairs and exterior walls, protected both by the "Catalogue of Buildings and Sets of Madrid".

The resolution of the houses, as well the tracing, attempted to adjust existing load bearing walls in an attempt to update the typology of the types of houses proposed.



**Rafael Beneytez Durán**

Restoration of a Building of Apartments and Offices.

22,000 sq ft,

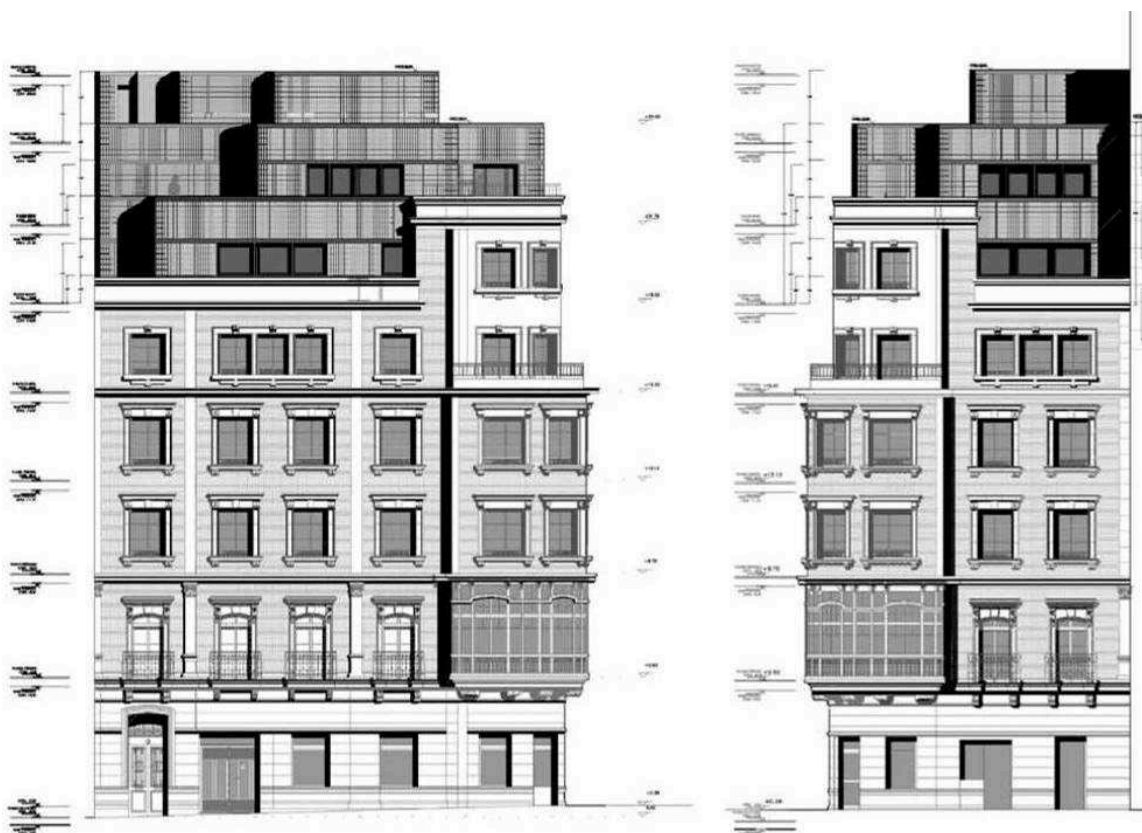
\$3 M

Uria Street, Oviedo, Asturias (Spain)

**Intern Architect:** Architectural Design, Construction Documents and Assistant Management

An historical building in the business center of Oviedo needed to be completely restored with the conservation of the protected façade. A carefully demolition of the interior structure was made from up to down, till the basement 8 meter deep under de preexisting ground floor. Then, we built a new steel structure in a perimetral beam with only two pillars inside the plant, which allows a free floor layout very interesting for the implementation of any activities inside.

The upper floors are an addition to the building achieved by amending the planning scheme, which allowed increasing the maximum building area and build three apartment building promoters. The new facade, recessed with respect to the original, is made of specially designed glass blocks to give mirror look much brighter.





**Rafael Beneytez Durán**

Restoration of a Building of Apartments and Offices.

22,000 sq ft,

\$3 M

Uria Street, Oviedo, Asturias (Spain)

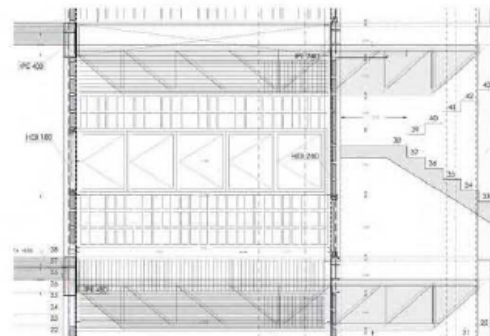
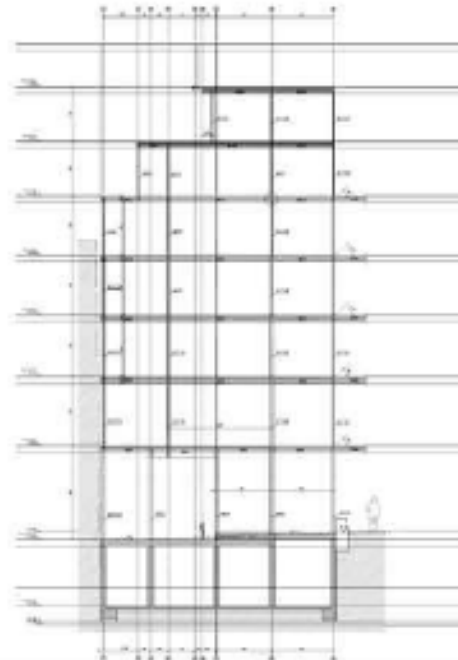
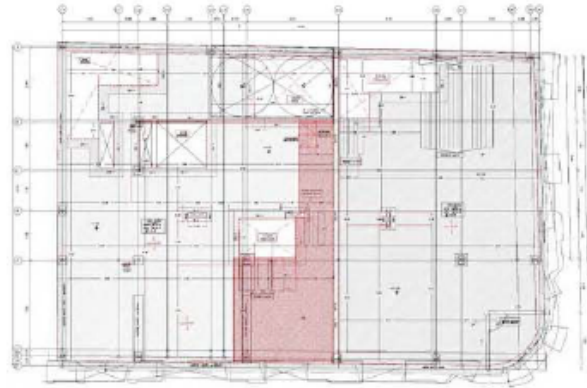
**Intern Architect:** Architectural Design, Construction Documents and Assistant Management



fase de demolición



sección principal



**Rafael Beneytez Durán**

Multipurpose Huesca State Congress Palace

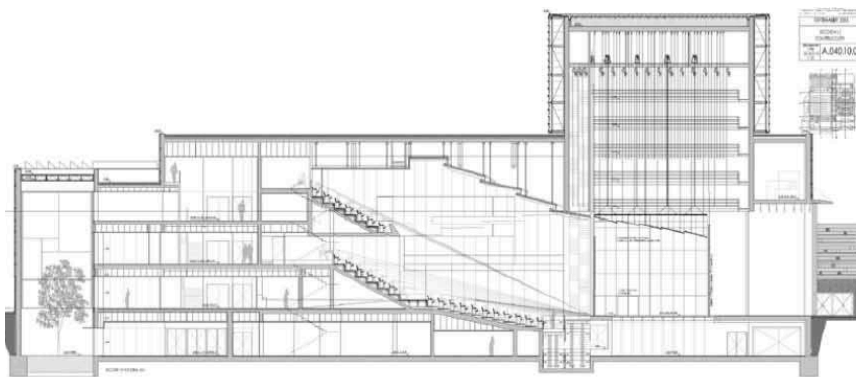
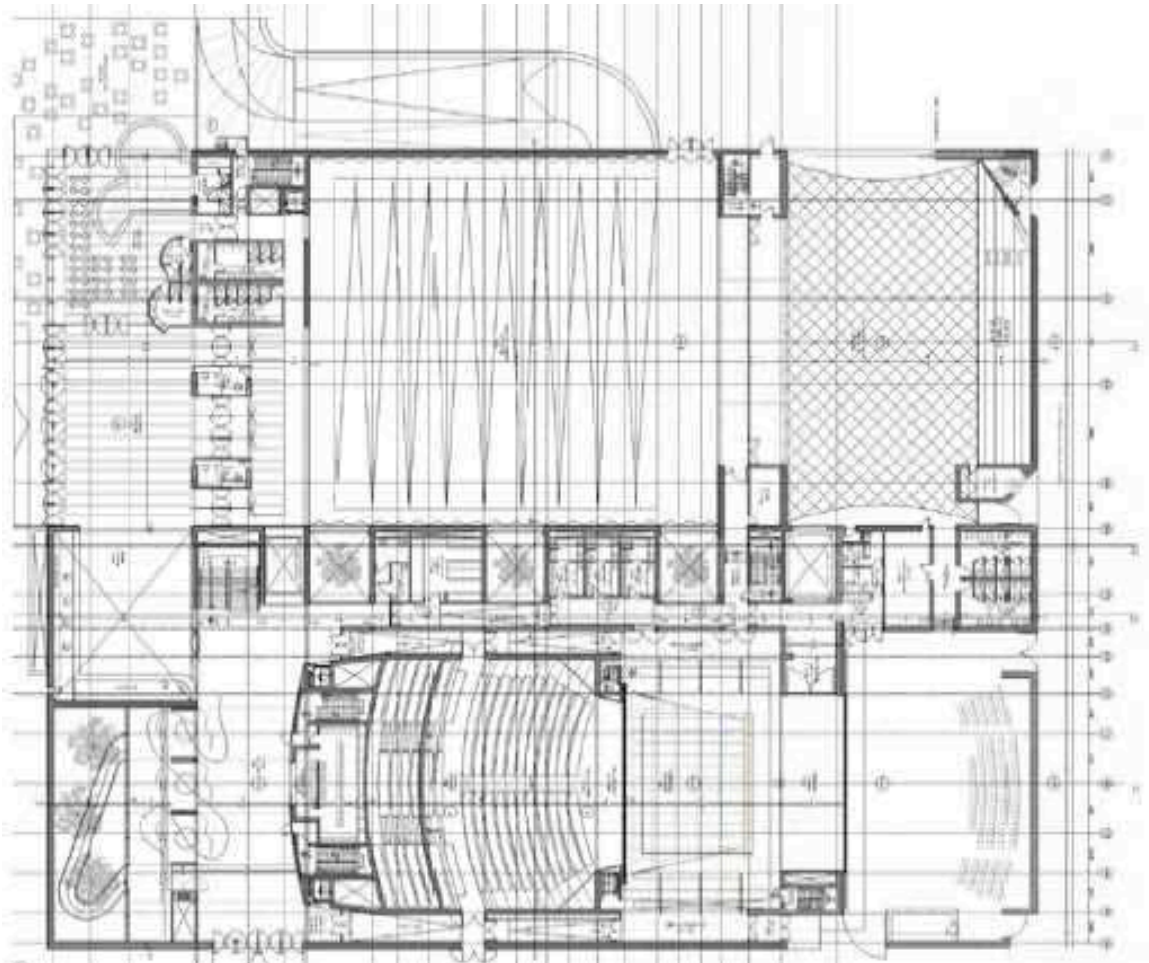
150,000 sq ft

\$30 M

Huesca, Aragón (Spain)

**Intern Architect:** Architectural Design, Construction Documents and Assistant Management

It is a multipurpose building that is ready to host conferences, conventions, trade shows, exhibitions, cultural events, press conferences, lunches, coffee breaks and big stage shows. It has large exhibition spaces, rooms for committee work and an auditorium with capacity for 782 people.



**Rafael Beneytez Durán**

Multipurpose Huesca State Congress Palace

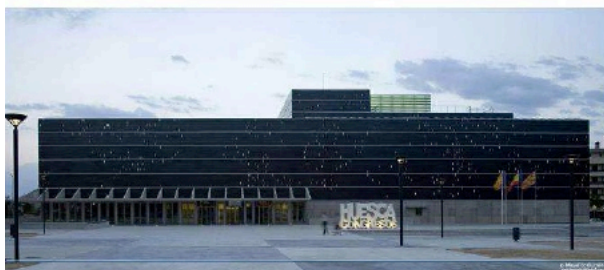
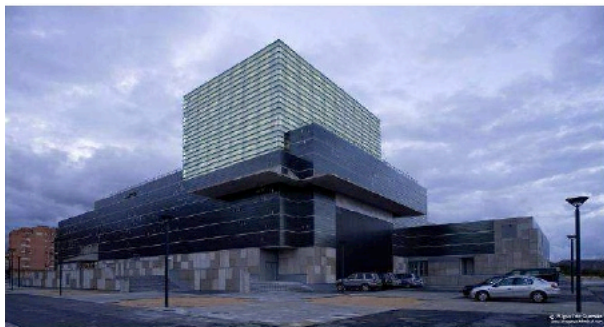
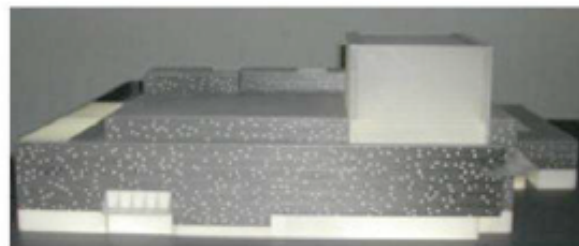
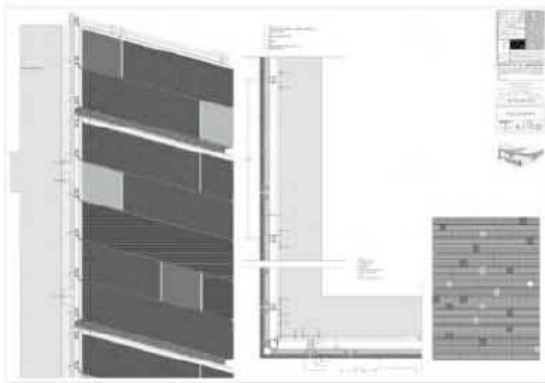
150,000 sq ft

\$30 M

Huesca, Aragón (Spain)

**Intern Architect:** Architectural Design, Construction Documents and Assistant Management

The facade of the Palace of Congresses, built in metallic black FAVETON®, offers different daytime hues: At night, the LEDs wrapped in alabaster pieces that are distributed around the outside, simulate constellations illuminated lights while the stage house, built in cut glass, is like a lighthouse.





**Rafael Benítez Durán**

Asturkayac.

2,000 sq ft,

\$200,000

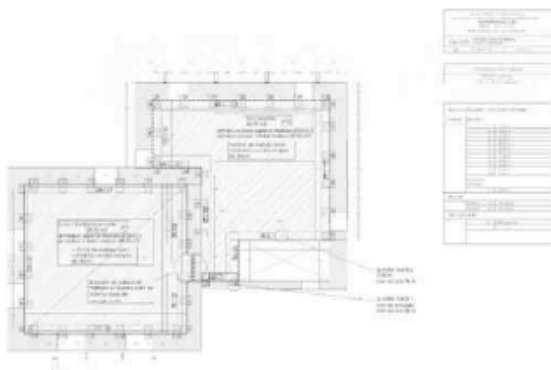
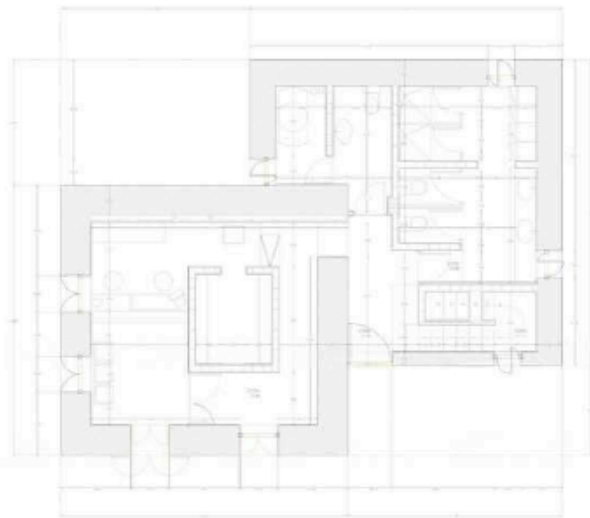
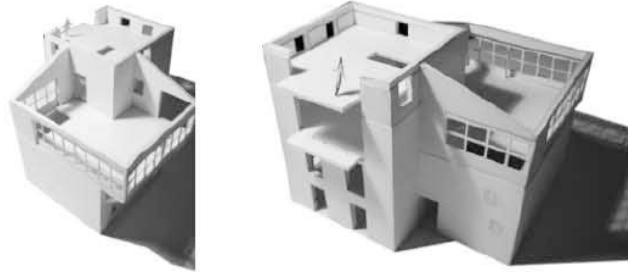
Panes, Asturias (Spain)

**Intern Architect:** Architectural Design, Construction Documents and Assistant Management

Main head quarters of an water active sports business located by the Sella river in the north of Spain.

It was a total renovation, with partial demolition, of an old building, and conservation of the protected facades and a new construction inside with an addition in the roof with a new space overlooking the water flow.

The new structure is based entirely on the perimeter walls, avoiding the appearance of structural elements that limit the interior layout.



**Jose María Arana del Valle – García Olano**

Bioclimatic Residence with Greenhouse.

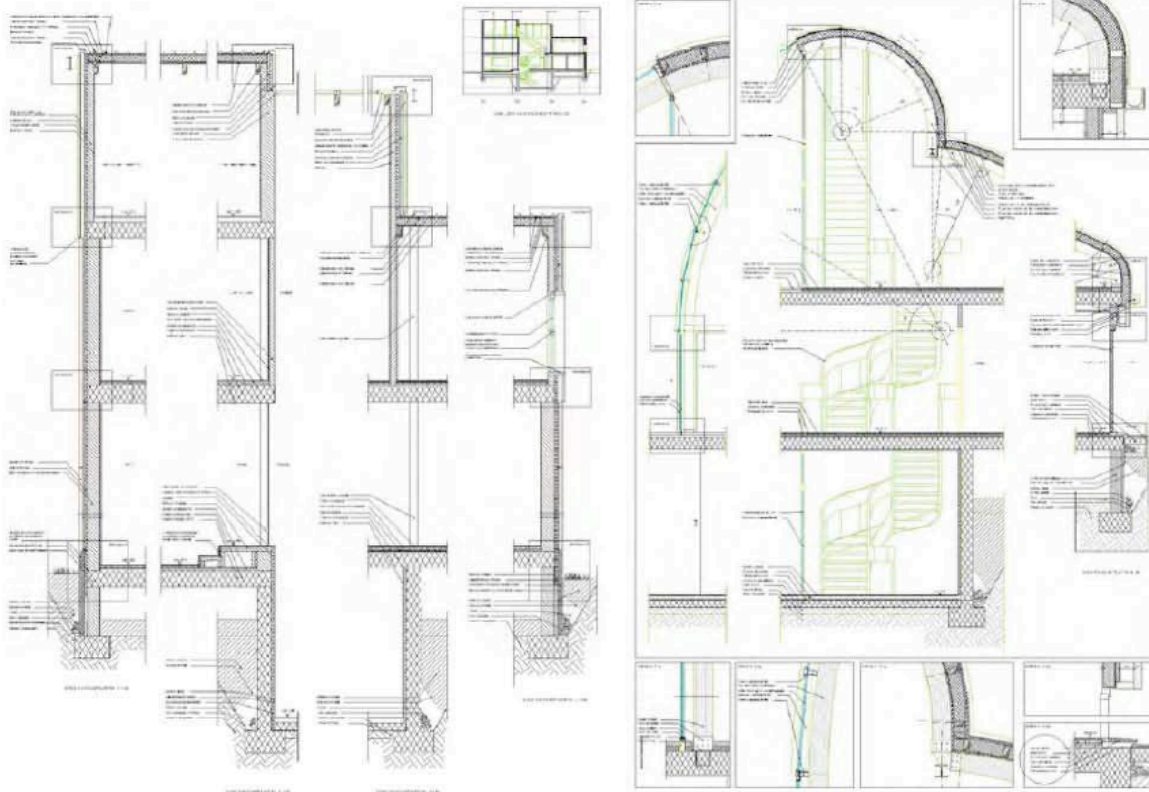
12,000 sq ft,

\$1,5 M

Boadilla del Monte, Madrid (Spain)

**Intern Architect:** Architectural Design and Construction Documents.

The main feature of the house is the greenhouse, with 50 m<sup>2</sup> of glazed glass with solar cells between two sheets. With this solution conservatory greenhouse with photovoltaic panels, we got a space to improve the thermal performance of housing. It acquire full significance to also serve as a support to an installation of renewable energy production.



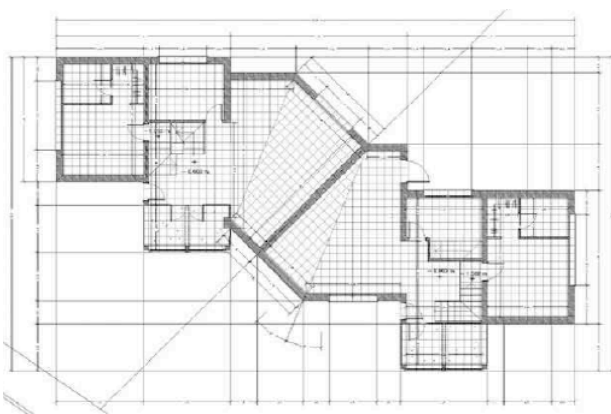
**Jose María Arana del Valle – García Olano**  
Ecological Housing Complex \_ Bioclimatic Residences  
4,100 sq ft,  
\$450,000 per semi-detached house.  
Mentrida, Toledo (Spain)

**Intern Architect:** Architectural Design and Construction Documents.

This is a development of 62 semi-detached houses with renewable energy integration and support of bioclimatic strategies, in an estate of 3.3 hectares, located in the urbanization "Illescas Manor" in Illescas, Toledo.

All homes are facing south, and arranged in small clusters of houses grouped in stages, allowing get variety in outdoor spaces, and avoid monotony in the facades of the row of houses.

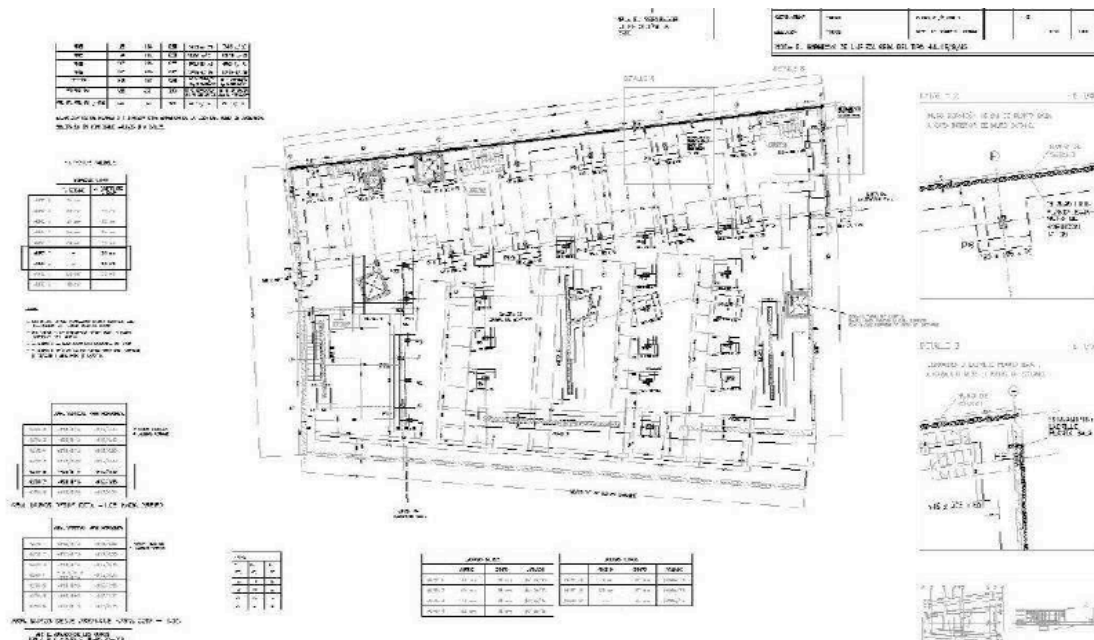
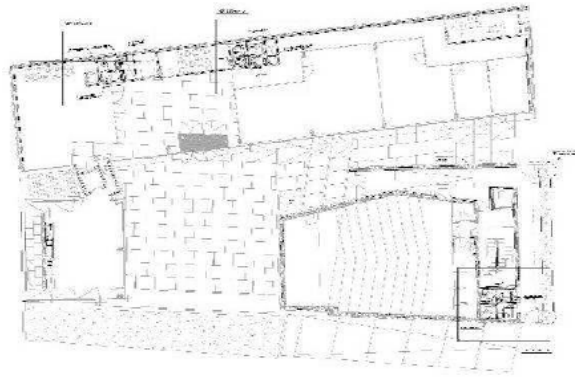
The main feature of the houses, is the greenhouse. With this solution with conservatory greenhouse with photovoltaic panels, we got a space to improve the thermal performance of housing, acquire full significance to also serve as a support to an installation of renewable energy production.





Juan Miguel Hernández Leon + Alvaro Siza Vieira  
Advanced Technology International Centre "CITA", "FGSR  
30,000 sq ft,  
\$3 M  
Peñaranda de Bracamonte, Segovia (Spain)  
**Intern Architect:** Architectural Design and Construction Documents.

Visitors can access the building from a place full of light distribution, with landscaped deck and water surface, from which clearly observe usage characteristics of the three blocks that comprise it. This architectural composition expresses the transition to the era of new technologies in conjunction with building art museum of the Carmelite convent and the old gable wall. The first building with two floors will house the multimedia classroom convention and conference and support spaces. The second, three-storey rectangular classrooms, characterized by its flexibility of use and the possibility of changes in its internal configuration. And finally, the workspace and laboratory, a cubic volume with a pixelated glass outer skin, which will display images and information.



**Juan Miguel Hernández Leon Arquitectos**

Renovation of Historical Dwelling for House and Studio

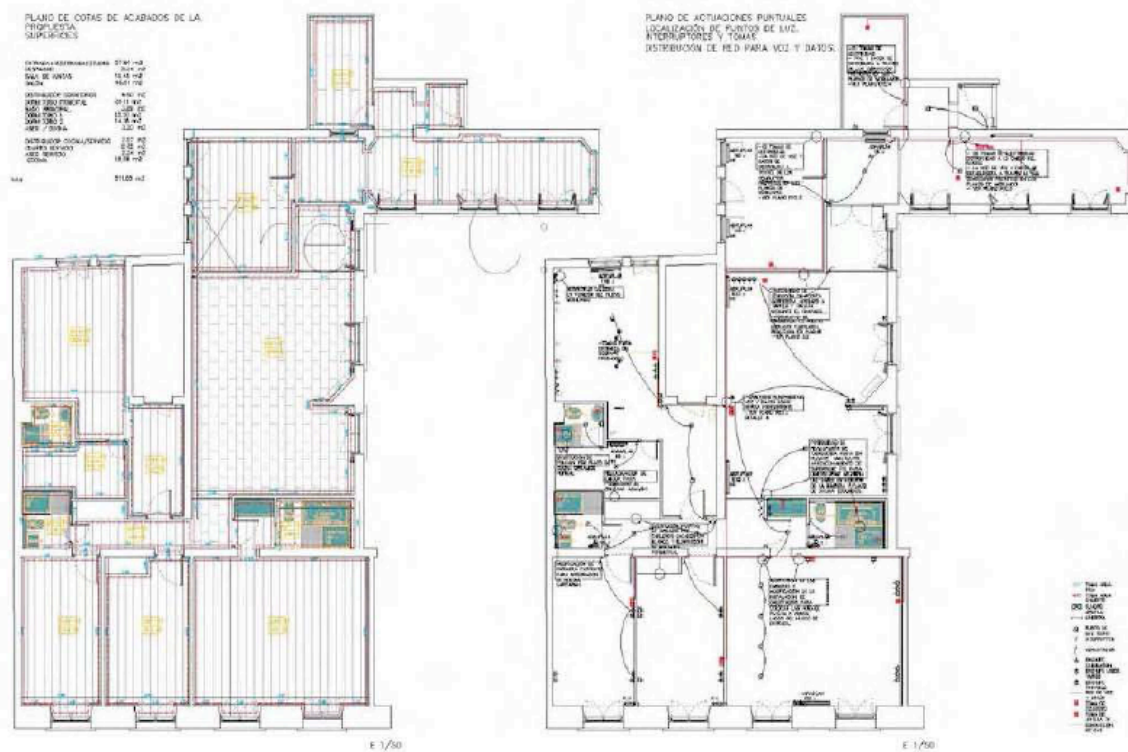
3,000 sq ft,

\$200,000

Génova St (Spain)

**Intern Architect:** Architectural Design and Construction Documents.

This is a development of 62 semi-detached houses with renewable energy

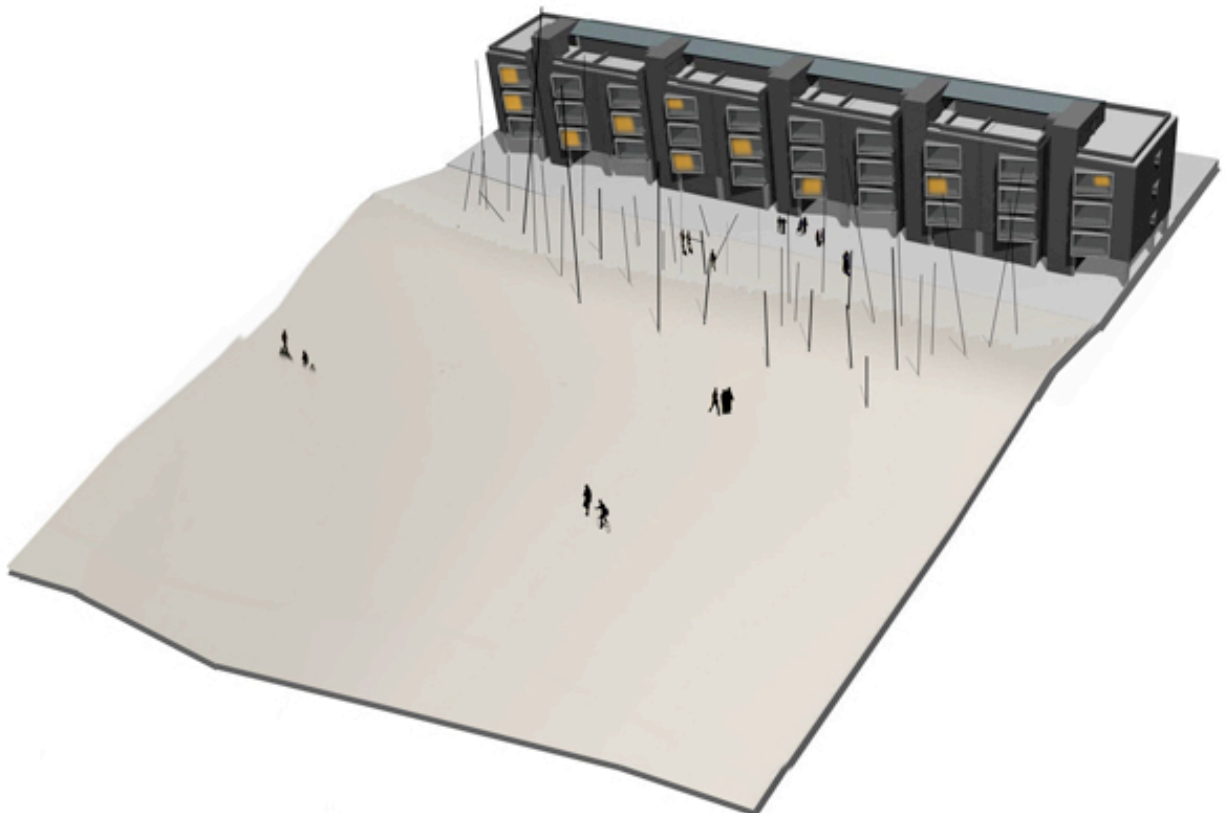
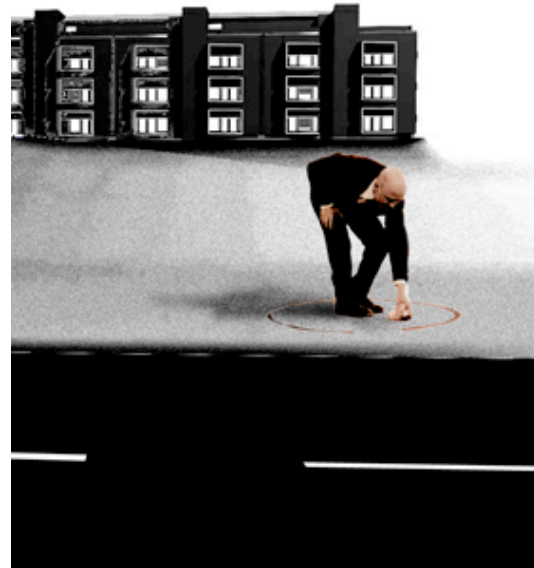




**AMPS – Alberto Marcos & Pablo Saiz**  
Competition - Building for 36 Subsidized Housing (VPO)  
50,000 sq ft,  
\$4 M  
Ciudad Pegaso, Madrid (Spain)  
**Intern Architect:** Architectural Design and 3D rendering

A linear block VPO that overlooks a green area to the west, and behind large road traffic.

A brick building built in black, with a recessed base with some gaps and interstices that allow access to the garden. Only orange balconies, like eyes that look towards the city. The roof hides a town, like decks and roofs of Madrid.



**AMPS – Alberto Marcos y Pablo Saiz**

"Reader's House", Competition for Germán Sanchez-Ruiperez Fudation

21,000 sq ft,

\$1,5 M

Naves del Matadero, Madrid (Spain)

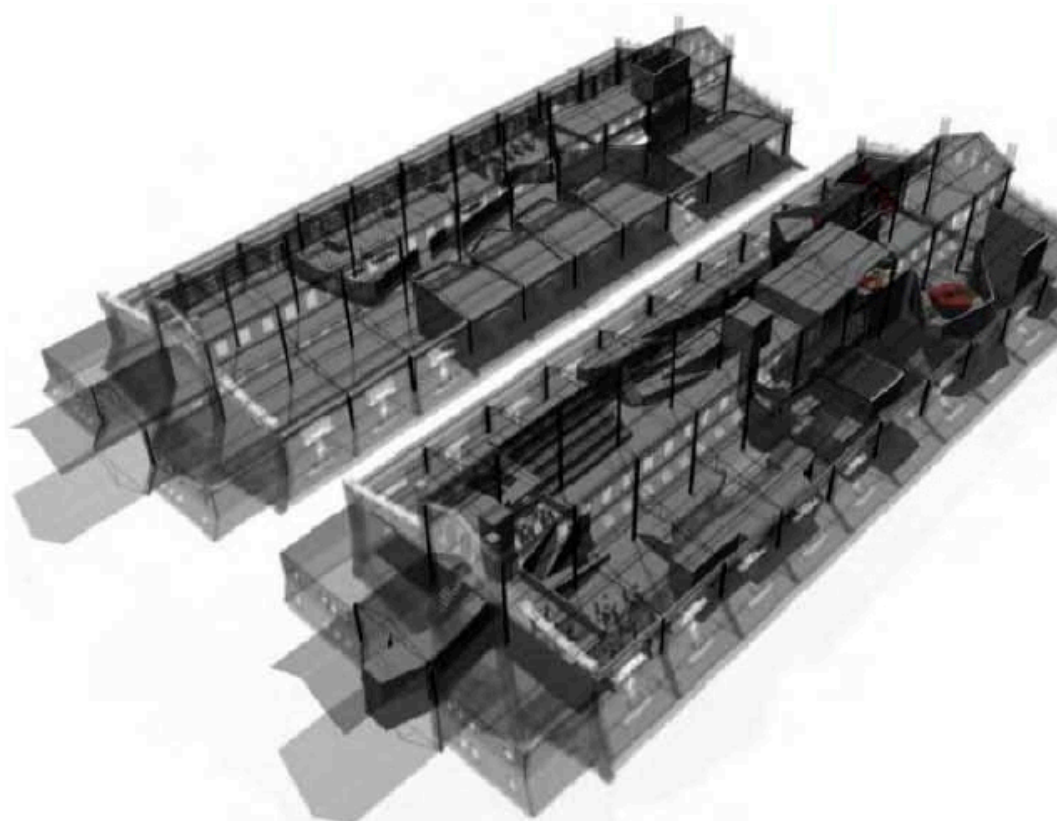
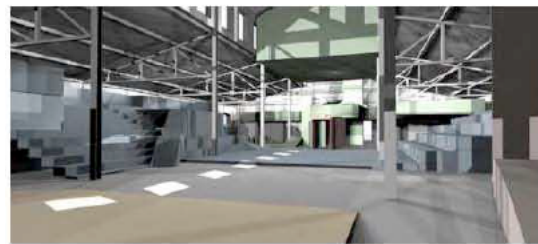
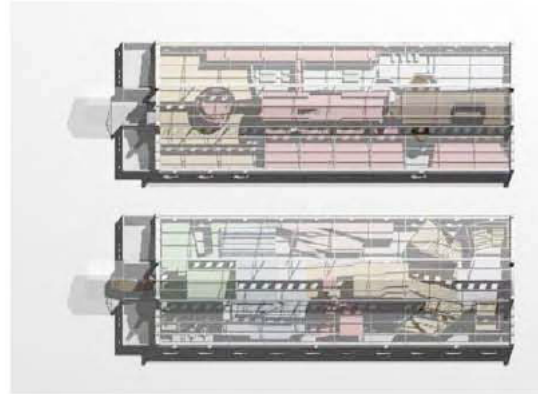
**Intern Architect:** Architectural Design and 3D Render Images.

The house of the reader, a unique area for reading and its practice, container carriers words and signs, a concatenated sequence of words within a space, a poem.

The symbol and its sign. There is no reading without support.

An access path that changes the way we understand the space with custom text reader that every visitor arrives, a multipurpose exhibition that is both a meeting place, a coffee shop at two heights on space, an auditorium which can increase and reduce its capacity designed as a music box.

An open space for temporary exhibitions, a street that is a porch and garden of shadows of texts, library with reading rooms in different areas full of light, silence and dumped into a garden, classrooms each with independent access,



in Baton Rouge, LA, ©2013