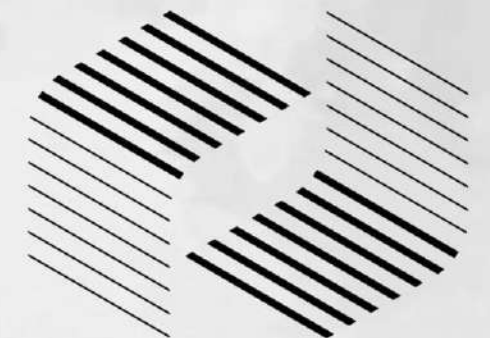




RAF CONSULTING ENGINEERS



The human beings create the environment
& the environment creates the human beings



A new life style is the fruite of new ideas

RAF CONSULTING ENGINEERS

Raf consultant engineering Co. has commenced its professional activities since 2017 with Mr. Annabestani as CEO. While possessing an independent design atelier, Raf Co. has its own separate specialist and experienced architecture, civil, electrical & mechanical engineering departments.

Raf Co. has accomplished its noteworthy services in a plenty amount of residential, administrative, commercial projects with both private or governmental project owners and has thoroughly achieved the clients satisfaction.



Mohammad
Anabestani

Architecture

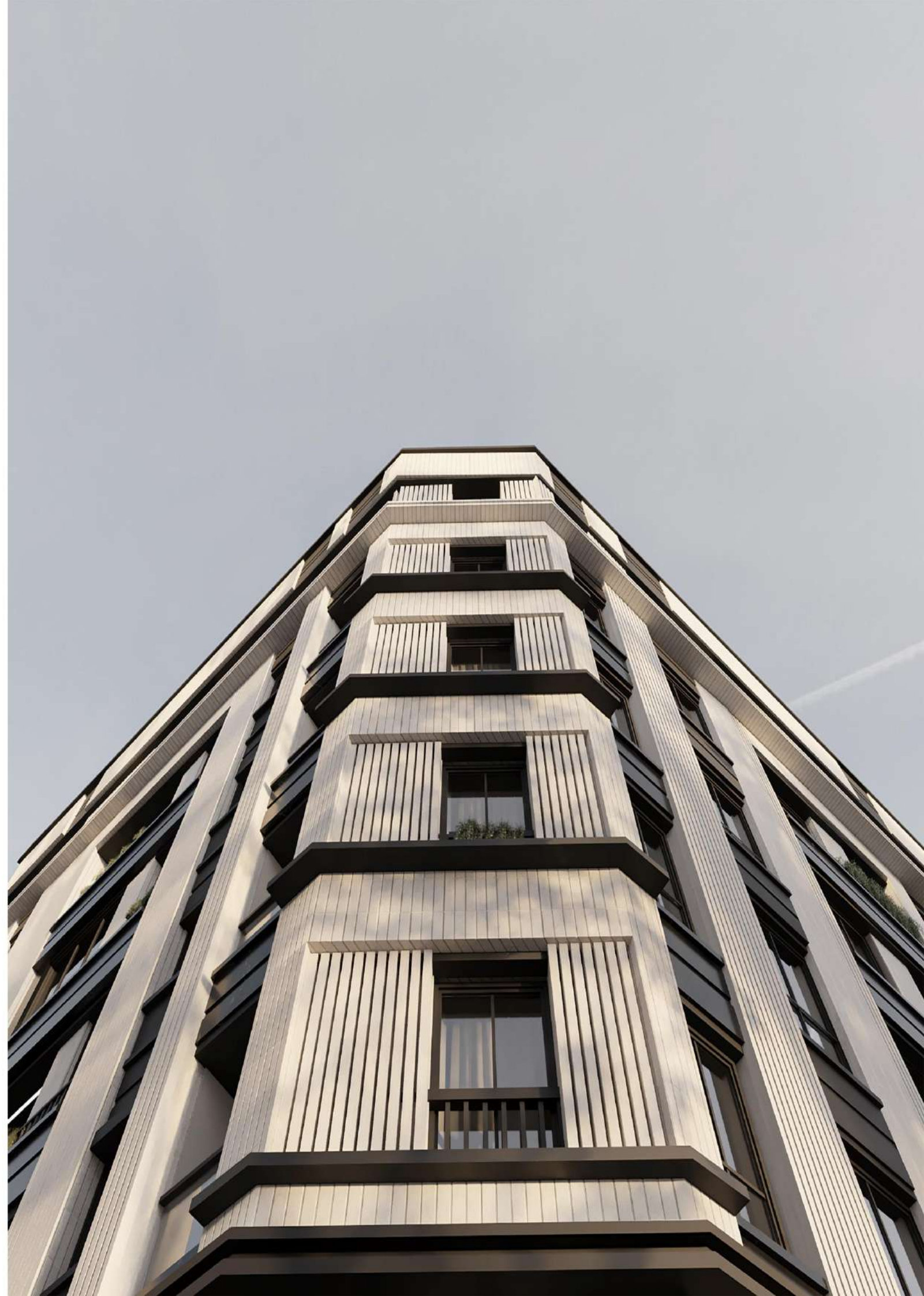
Residential Project

Client : Mr. Eskandari

Location : Tehran-District 2

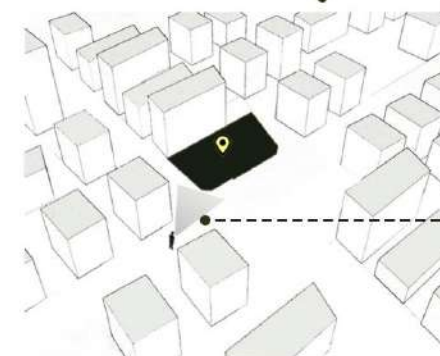
Total Area : 3182/69 m²

Material : Stone-Brick-Metal





نقشه هوایی منطقه



دید از گذر

طراحی این پروژه به دلیل قرارگیری در مجاورت سه گذر و بافت شهری تقریباً قدیمی و اینکه می‌تواند مبنا و الگویی برای نمای ملک‌های مجاور باشد، از اهمیت ویژه‌ای برخوردار است.



East Elevation



South Elevation



Views

Location:Tehran-District 2

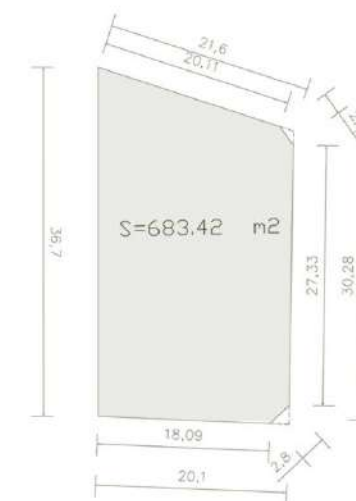
view 3



view 2



view 1



Plans

پلان طبقات این پروژه در ۲ تیپ و برای واحد های ۸۰-۹۵-۱۱۰ و ۱۳۰ متر مربع طراحی شدند تفاوت طراحی پلان ها برگرفته از جابجایی بالکن ها در طبقات است هماهنگی این دو (نما و پلان) منجر به شکل گیری این طراحی منحصر به فرد برای این پروژه شده است.



پلان طبقات 1-3-5



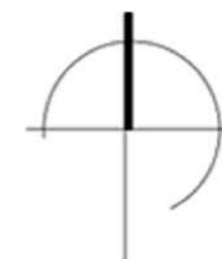
پلان طبقات 2-4



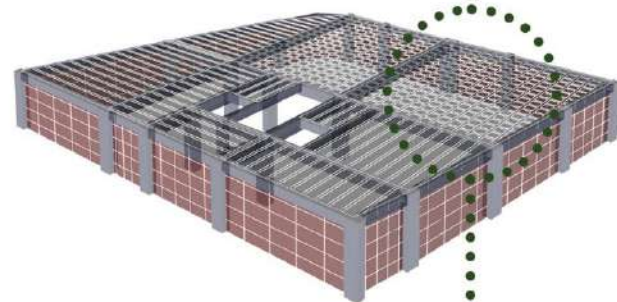
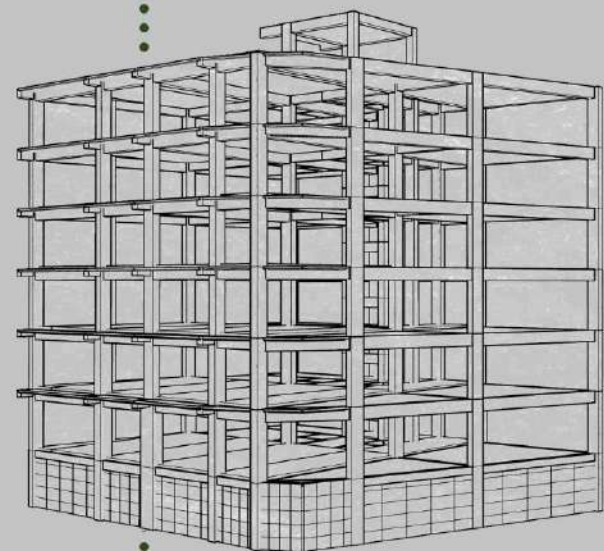
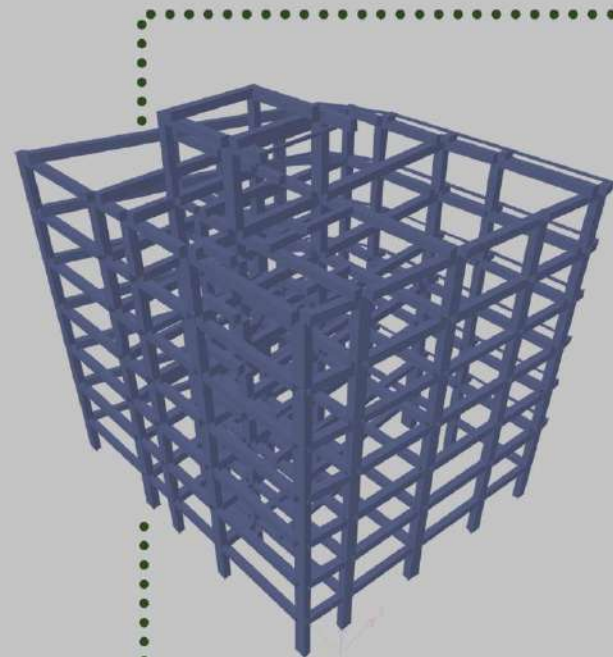
Architectural Plan

Type 1

Total Area: 1395/07 m²



Structure

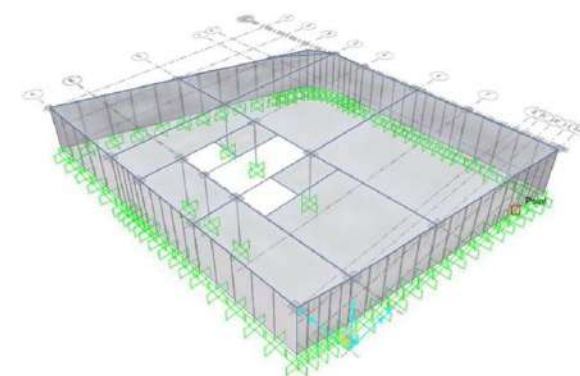
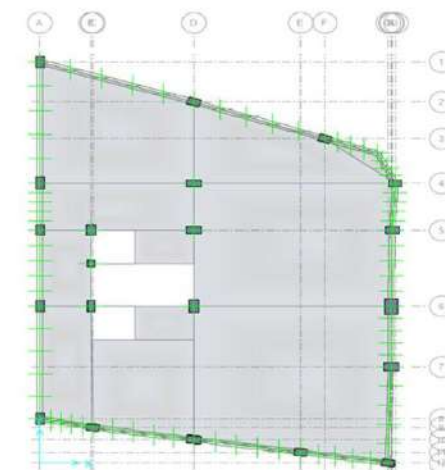


Waffle Roof

One & Two-sided

مزایای استفاده از سقف وافل ترکیبی (وافل یک طرفه + وافل دو طرفه)

- بهبود عملکرد لرزه ای به دلیل کاهش وزن سازه و نیروی زلزله
- کمک به پلان معماری و طراحی فضاهای منعطف
- طراحی دهانه های بزرگتر با استفاده از وافل دوطرفه و کاهش تعداد ستون ها برای تامین پارکینگ های مورد نیاز و حتی مازاد
- استفاده از وافل یک طرفه در دهانه های کوچکتر و کاهش هزینه های سازه ای
- ایجاد طرح جذاب در سقف پارکینگ و عدم نیاز به سقف کاذب
- امکان جانمایی نامنظم ستون ها و تعبیه بازشوهای بزرگ
- کاهش هزینه اجرا تاسیسات به جهت کاهش آویز تیرها

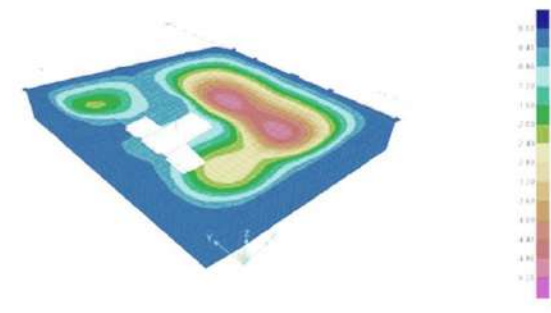


تناژ میلگرد ۲۹/۸۰ در هر متر مربع (تیر و ستون)

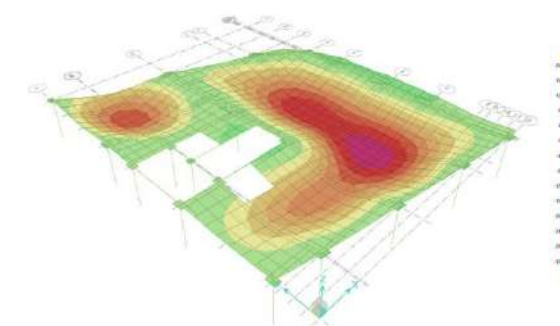
(کاهش تناژ میلگرد با در نظر گرفتن ملاحظات سازه ای)

Structure

Concrete Structure &
Waffle Roof



کنترل لرزش در سقف



کنترل تغییر شکل دراز مدت سقف

Electric



در سیستم وایرلس می توان مشخصه های مختلفی از جمله شدت روشنایی و رنگ نور چراغ هارا به صورت دستی و گروهی از طریق نرم افزار نصب شده بر روی گوشی تغییر داد

In the wireless system, various characteristics such as the illuminance level and the color of the lights can be changed manually and in groups through the software installed on the phone.



Grouping

کنترل روشنایی گروهی
محصولات با نرم افزار



CCT Charge

تغییر دما رنگ
۶۵۰۰-۲۷۰۰ کلوین



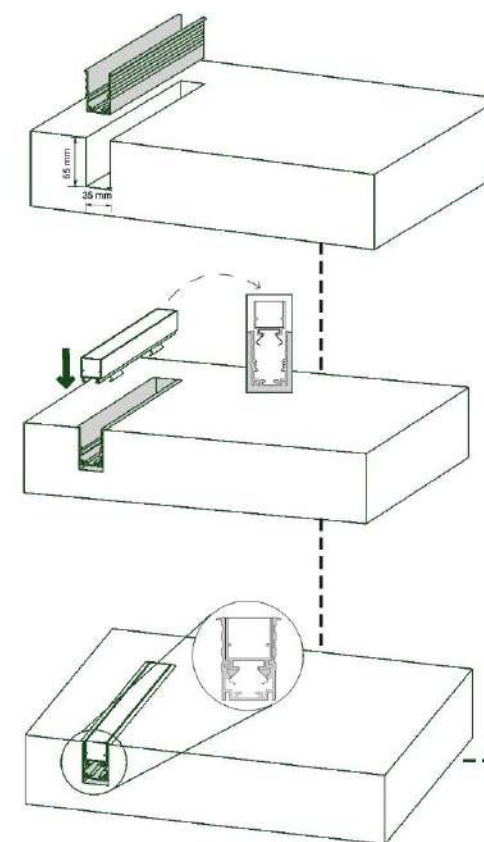
Scalability

مقیاس پذیری برای
استفاده در تمامی محیط ها



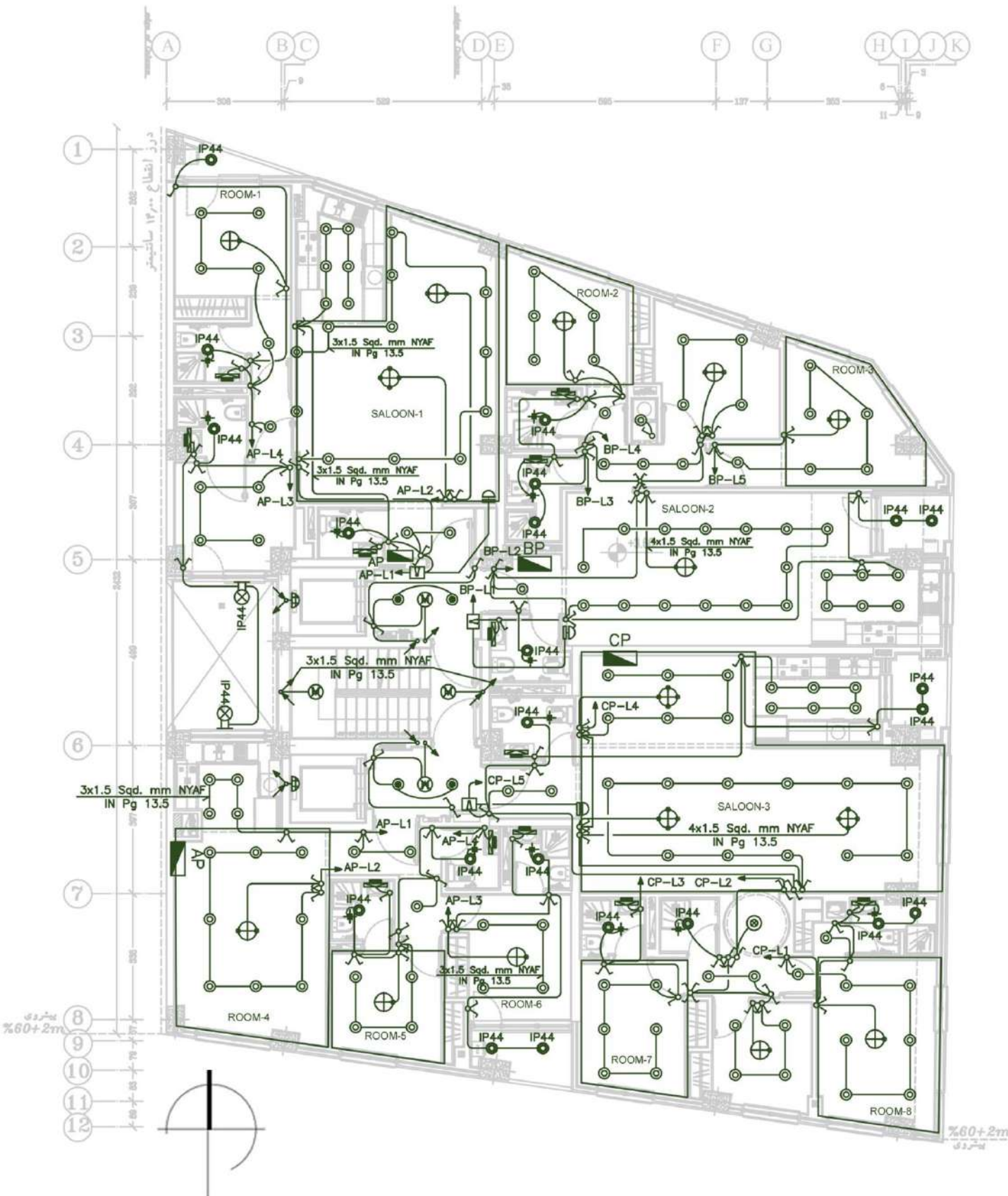
Cloud Control

کنترل از راه دور سیستم
روشنایی از طریق اینترنت

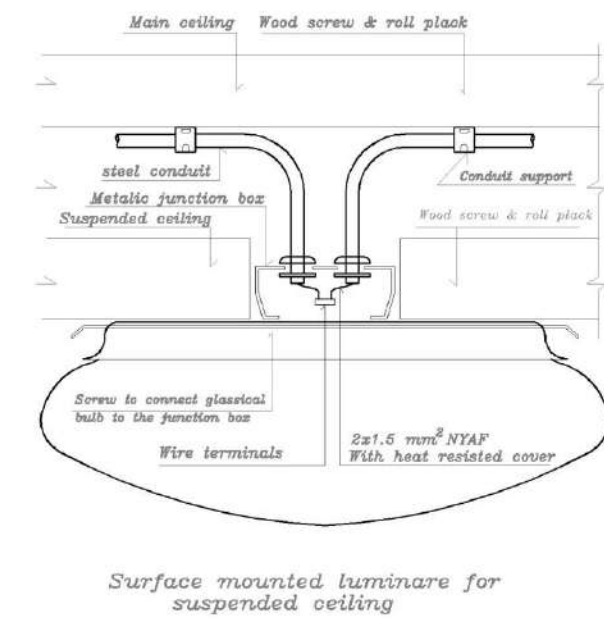


استفاده از نورهای خطی
وایرلس برای روشنایی
بالکن ها

Using wireless linear lights to
illuminate balconies



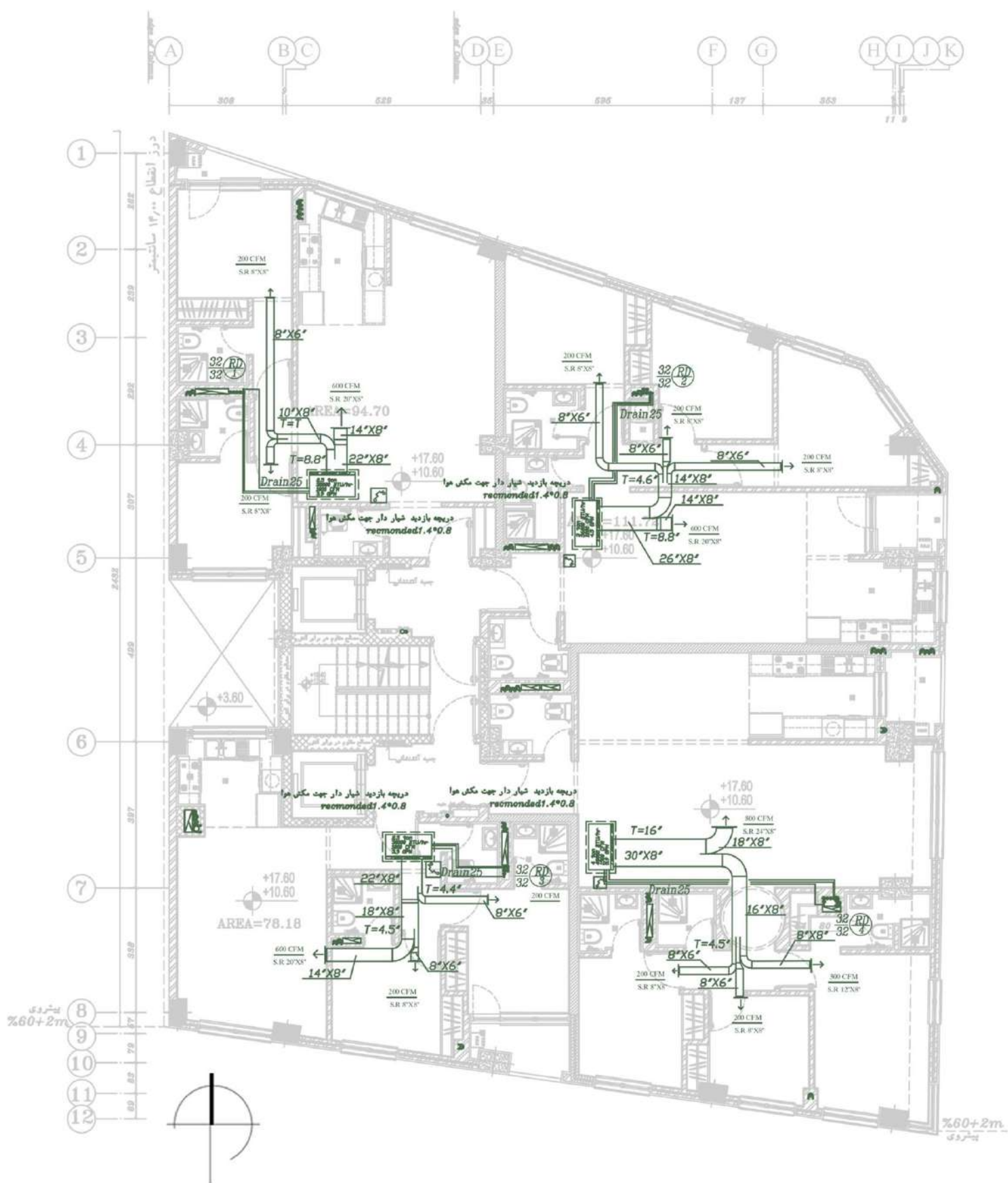
Lighting System



Type1

Lighting fixtures are selected according to any location definition and condition while lighting calculation and design is done regarding the national codes and interior architectural design.

Mechanic

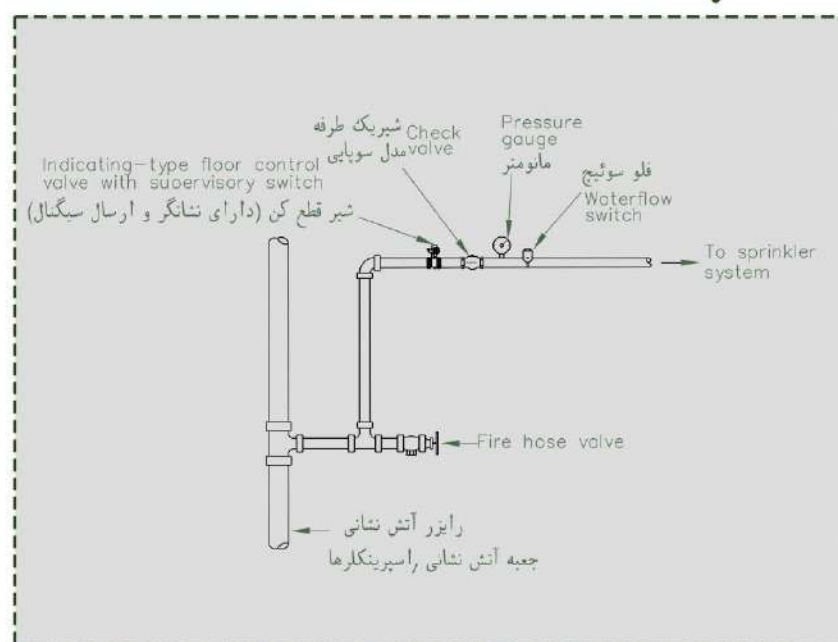
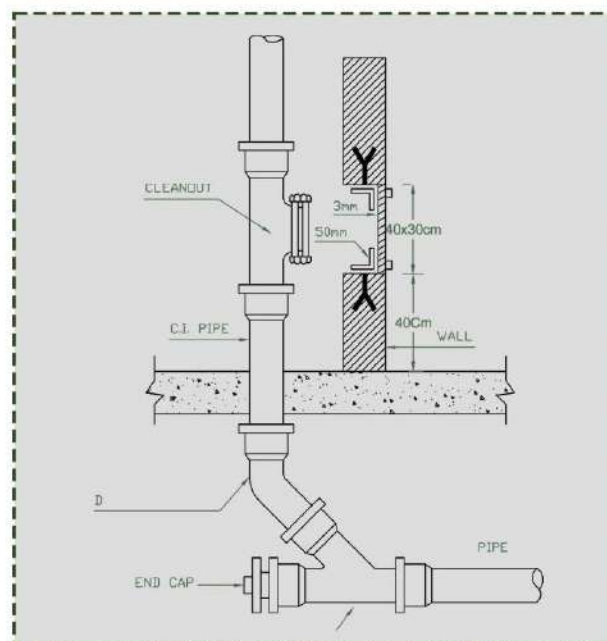
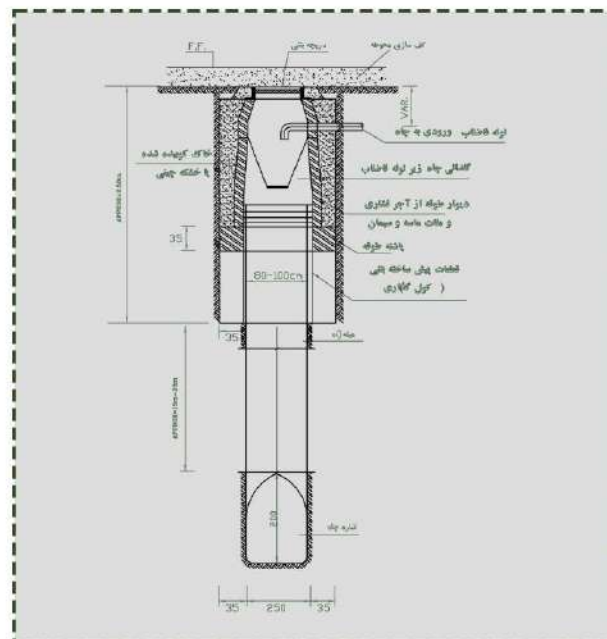


سیستم تهویه مطبوع

- کانال کشی داکت اسپیلت با استفاده از ورق گالوانیزه
- در نظر گرفتن سرعت و افت فشار هوای استاندارد
- استفاده از لوله کشی مسی برای اتصال اسپیلت به کندانسور ها در بام
- استفاده از کویل آب گرم برای تامین هوای گرم و کاهش مصرف برق

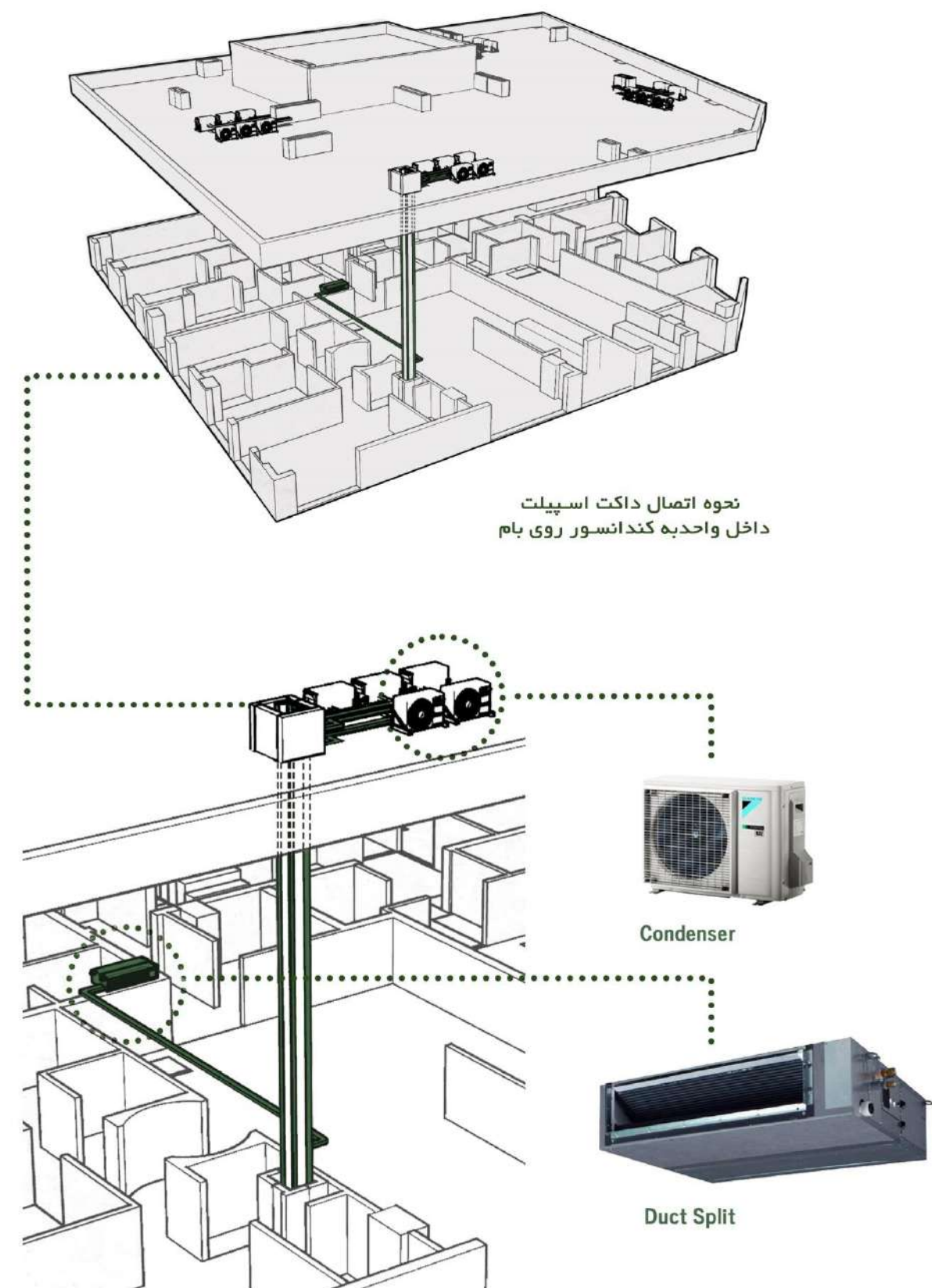
Mechanical Plan

Type1

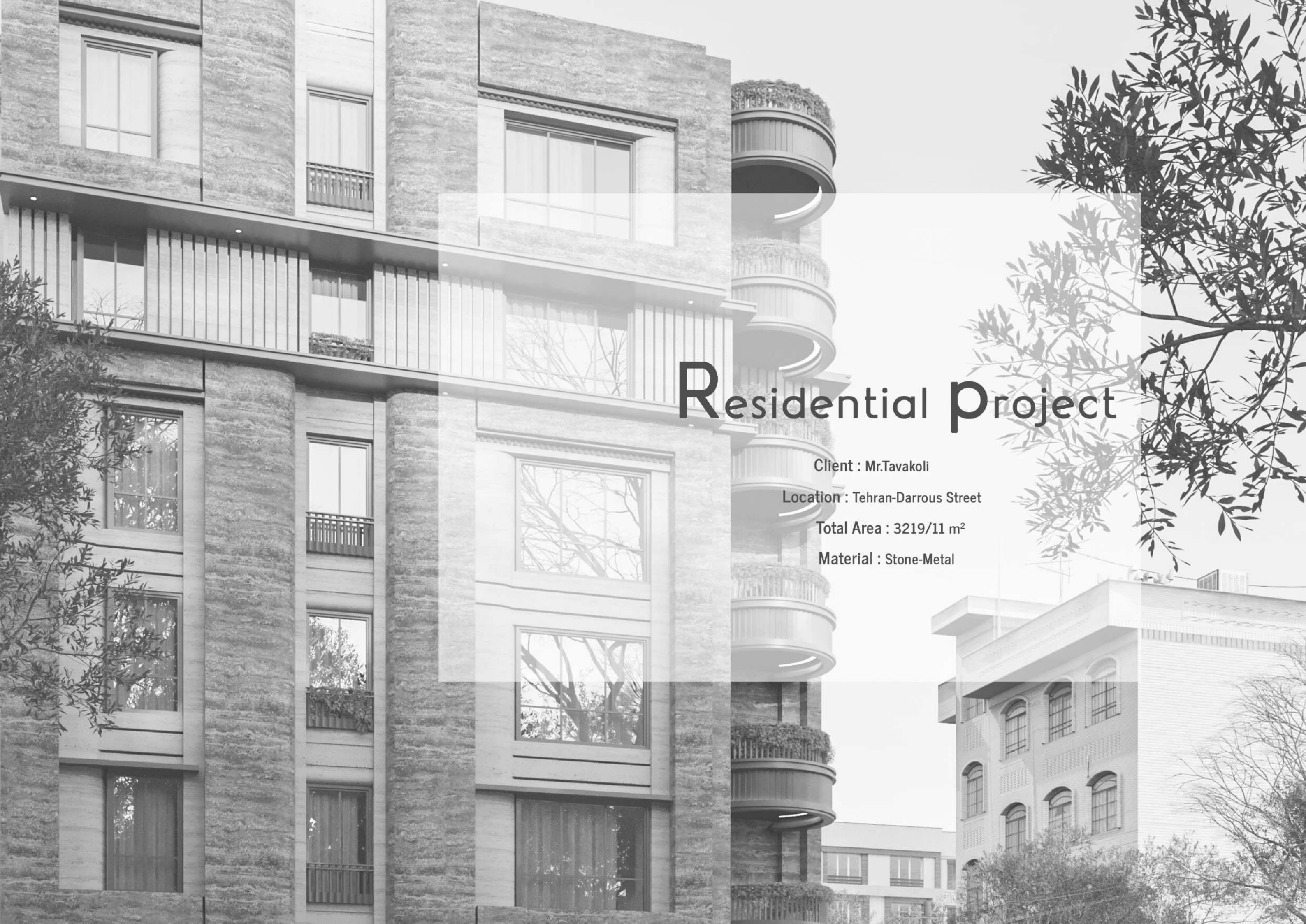


Details

Mechanical Plan



Architecture



Residential Project

Client : Mr.Tavakoli

Location : Tehran-Darrous Street

Total Area : 3219/11 m²

Material : Stone-Metal



Using curved balcony in the architectural plan had a great impact on the design.

Design Challenge

This project is located in Darrous region and the special location of the project has caused a challenge in design.



Supervision & Construction

Location: District 1 - Shariati

کارفرما : آقای ملکوتی خواه
وضعیت : اتمام
تاریخ شروع : ۱۳۹۷



Structure

Steel structure is a category of steel used for making construction materials in a variety of shapes.

Architecture

Sarvelat Villa Project

The project is located in Gilan Province. It has an area of ten thousand square meters which is created by combining three discrete parts.

The land is located in an inclined section of the area which causes a 43-meter level difference between two points of the site. The main challenge in designing the outdoor area is using the natural slopes in the best way.

Client : Mr.Asadi

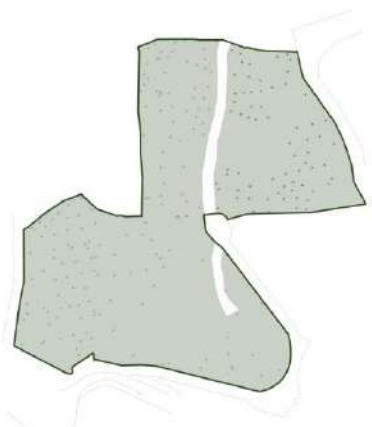
Location : Gilan-Sarvelat

Total Area : 10000 m²

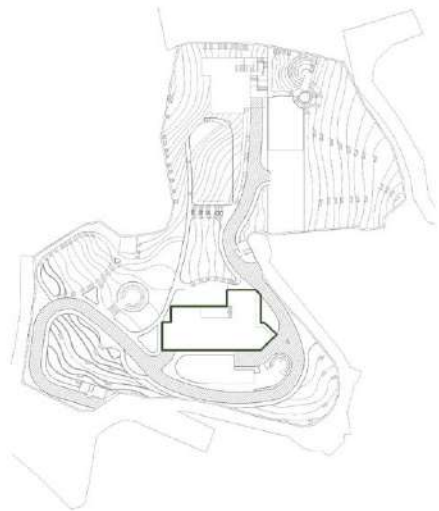
The client requirements include:

- A private villa
- A main villa
- Stable
- Tennis court





Site Plan



Location Of The Main Villa



First Floor Plan



Main Villa



Living room and bar design





Stair case



Kitchen

Interior design of the kitchen & dining room on the first floor and using neutral colors.

Office Room

An office room is located on the second floor and at the end of the hallway of the bedrooms and has a separate access from outside .





Bedroom

There are three master bedrooms on the second floor, which have a different design based on the client's request.



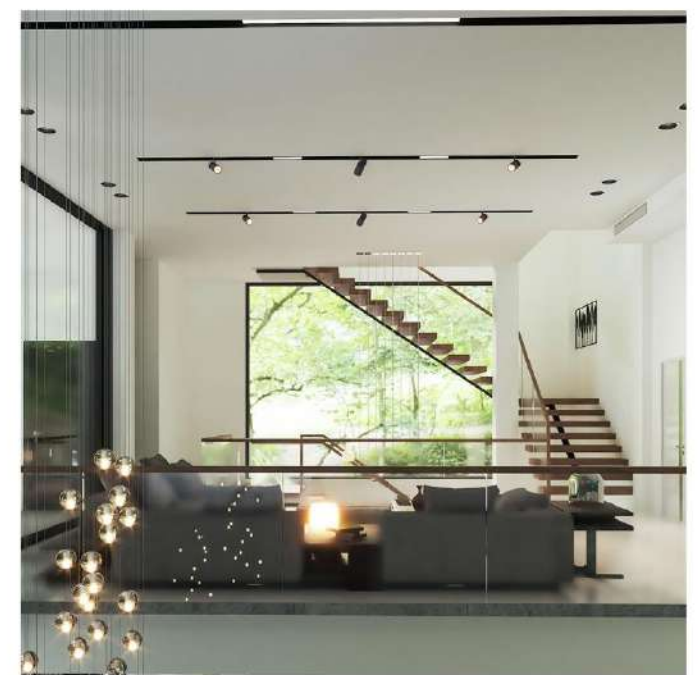
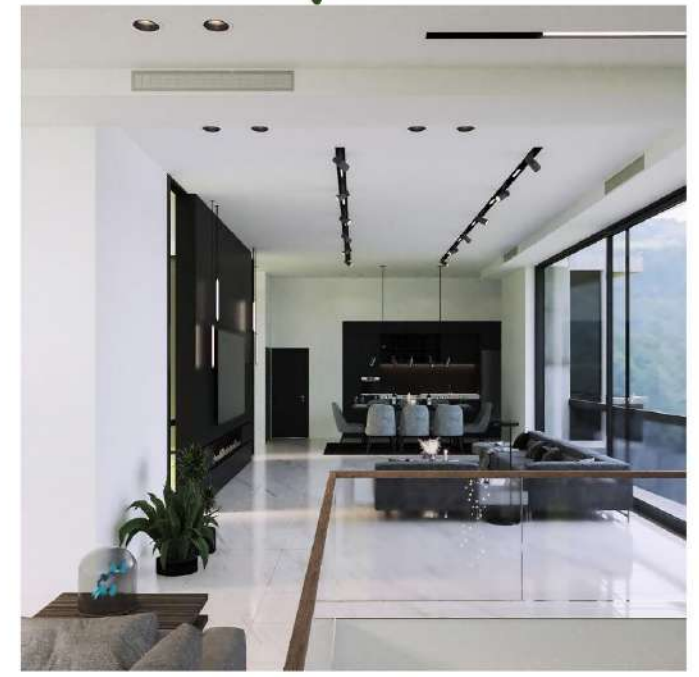
W.c





Pool & Terrace

A pool is placed on the terrace in second floor and living room has a panoramic view to this area.



Second Floor

An exclusive attention is contributed to the living room and kitchen design to provide to it's residents a panoramic permanent view on the pool and surrounding natural landscape.



Gym Design

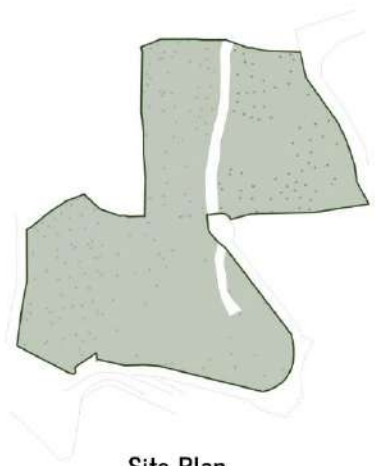
The interior design of the sport club on the third floor and the special false ceiling design by using hexagonal grids.



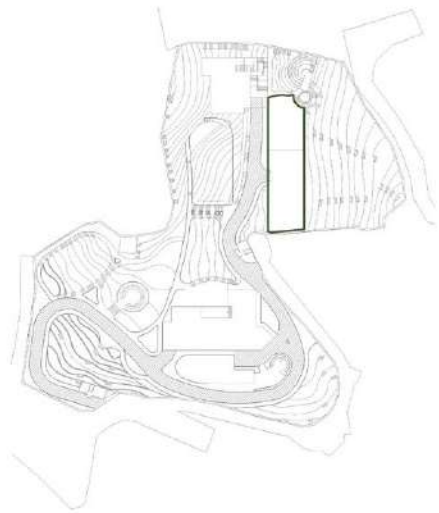


Master Bedroom

Master bedroom design on the third floor next to the gym & roof garden.



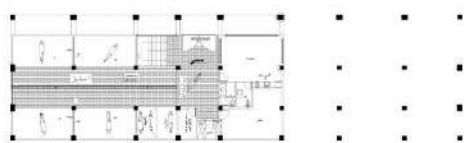
Site Plan



Location Of The Stable



-1Basement Plan



First Floor Plan

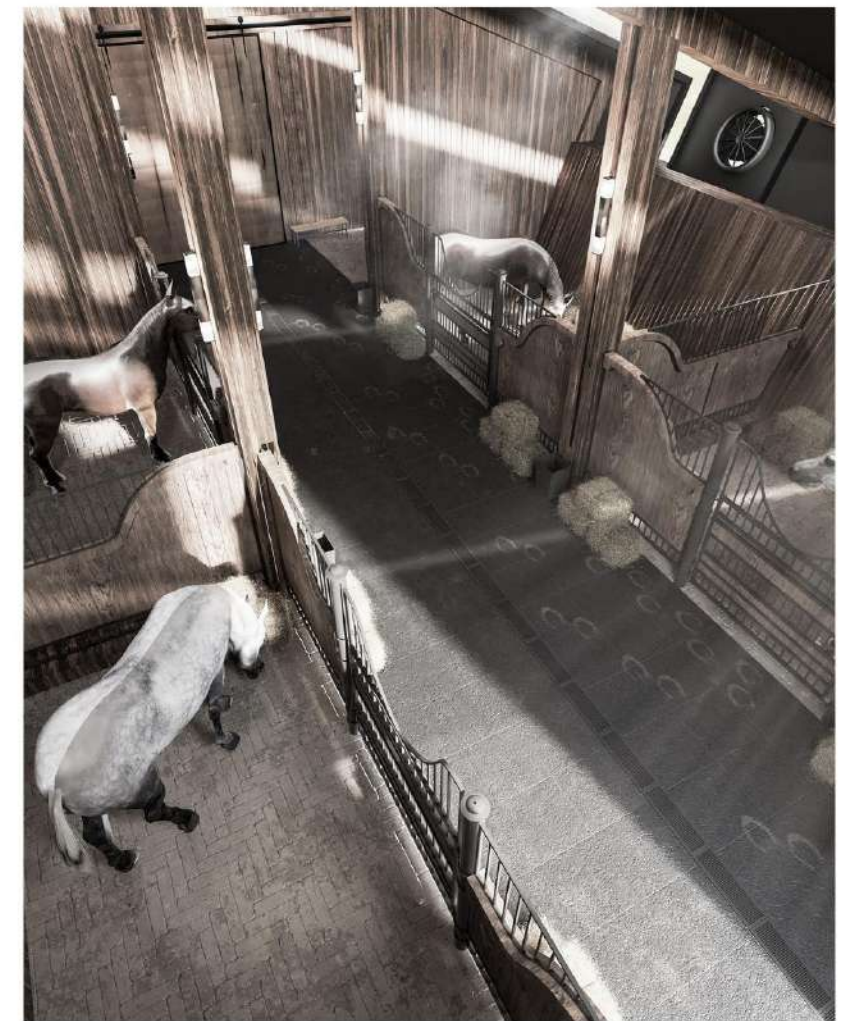


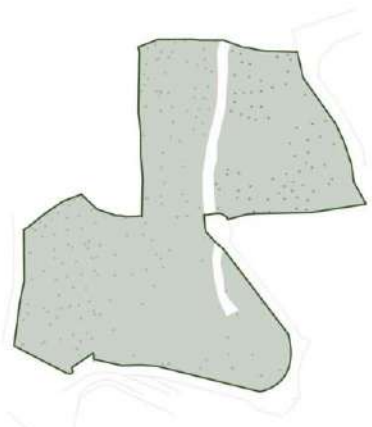
Stable



Stable Design

European style stable design for 4 horses with a horse training field.





Site Plan



Location Of The Wooden Villa



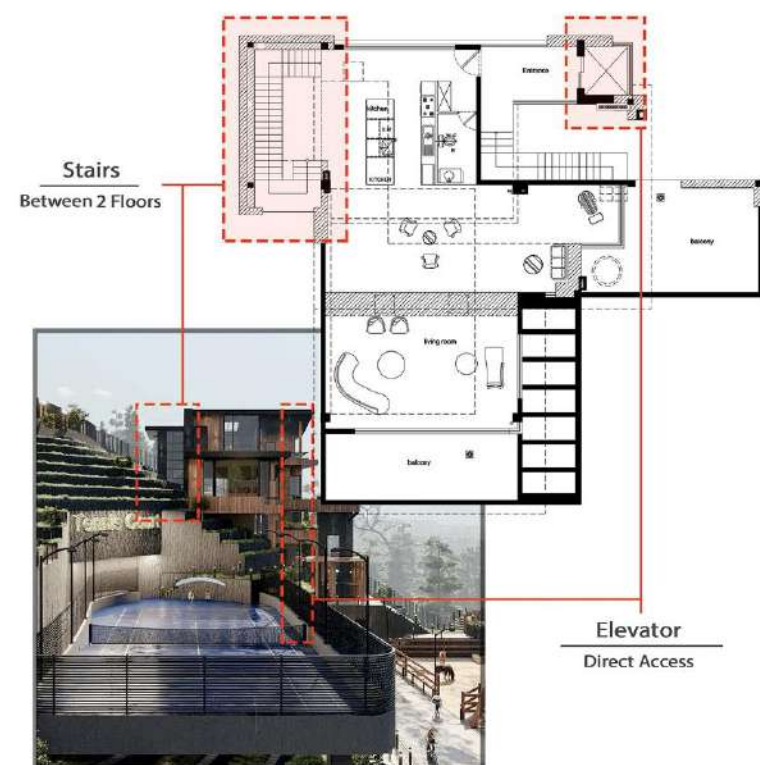
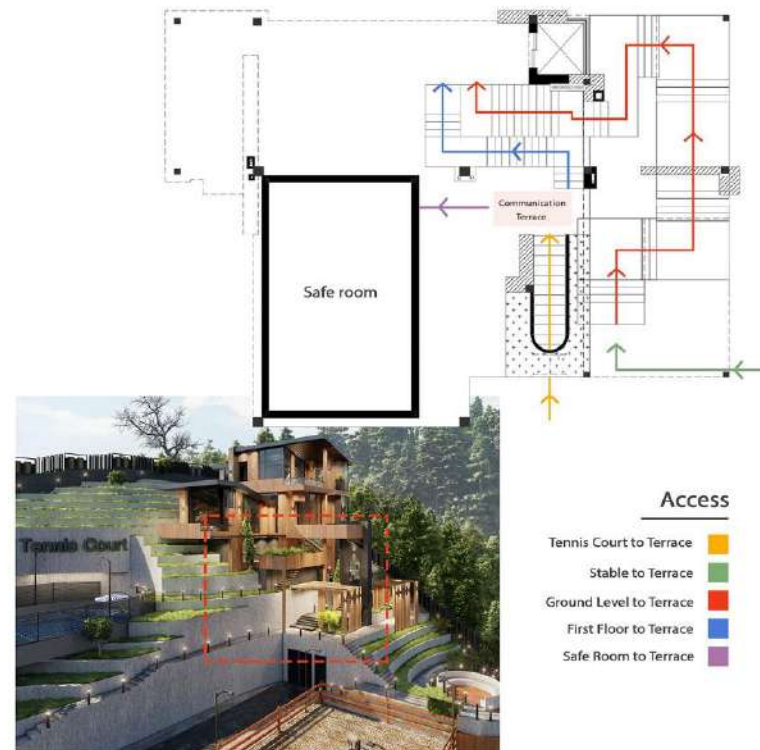
First Floor Plan



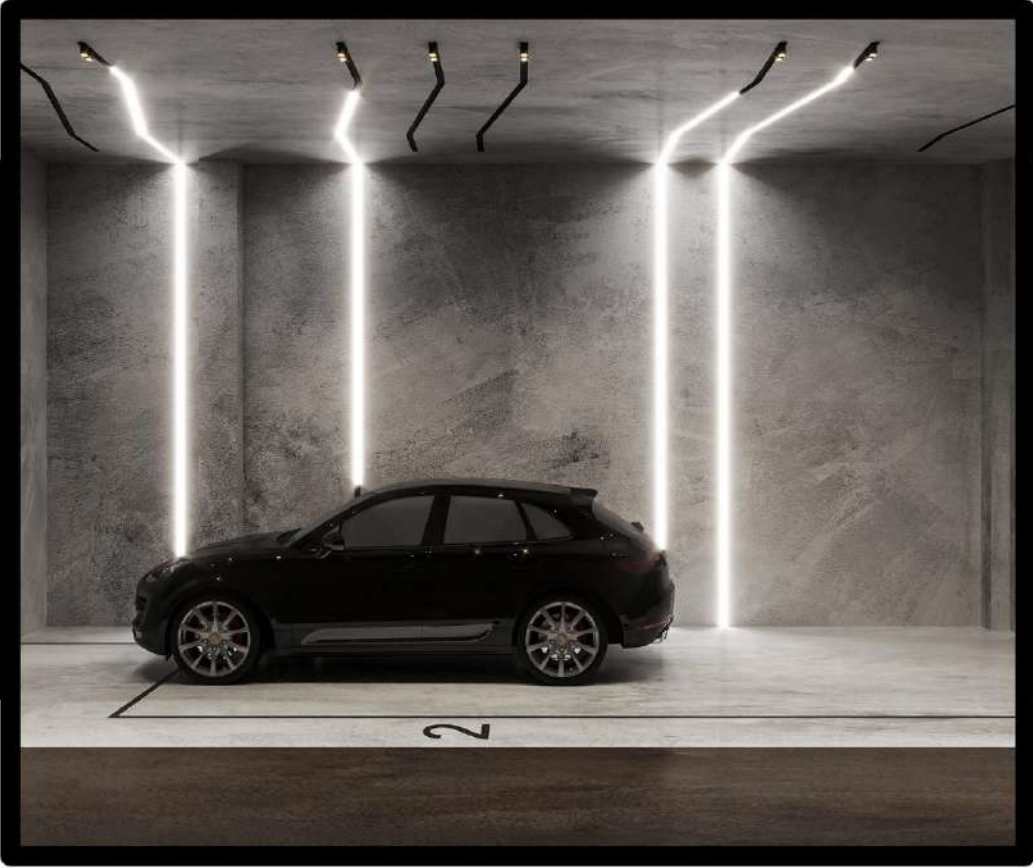
Wooden Villa

Facade Design

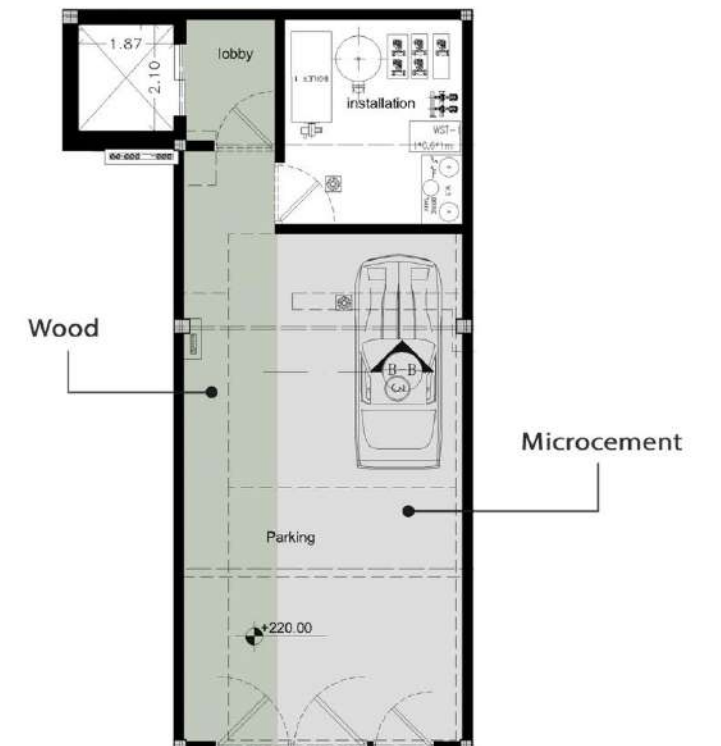
This villa is completely designed with woods and gray stones are used for vertical access and creating contrast on the facade.



Diagram



Designing the parking false ceiling according to roof slope.

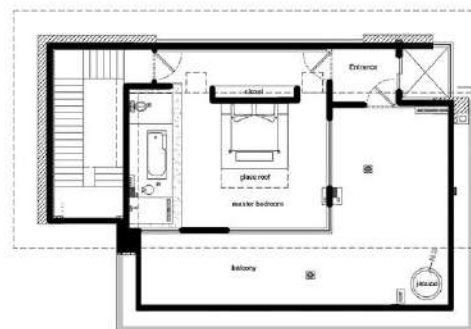




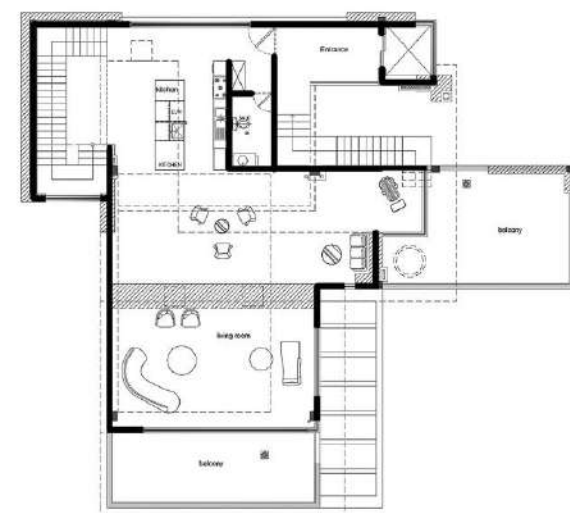
Plan

The villa includes 4 levels in high:

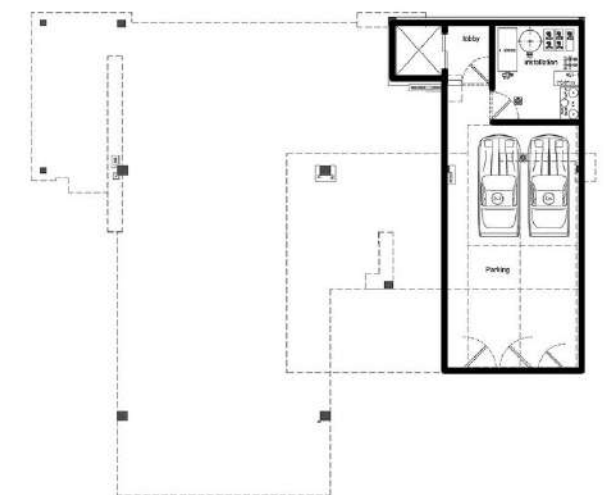
- Basement : parking,lobby,installation room
- Ground floor : terrace
- First floor : living room & kitchen
- Second floor : master bedroom



Second Floor Plan



First Floor Plan



Basement Floor Plan

Kitchen

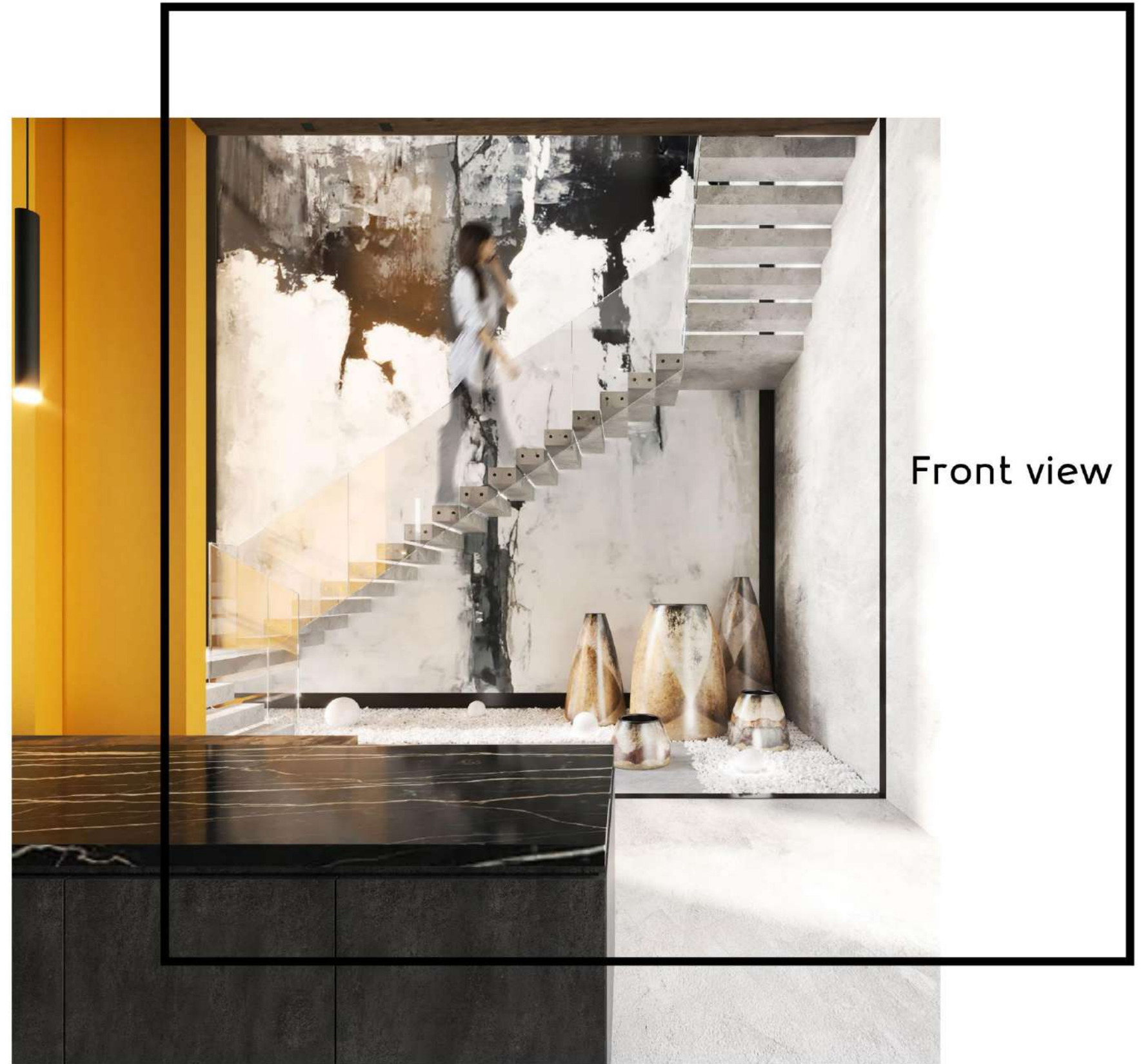
Material : microcement and wood



Stair case

Stair case design with a special structure so that stairs are cantilevered from the wall.

Top view



Front view

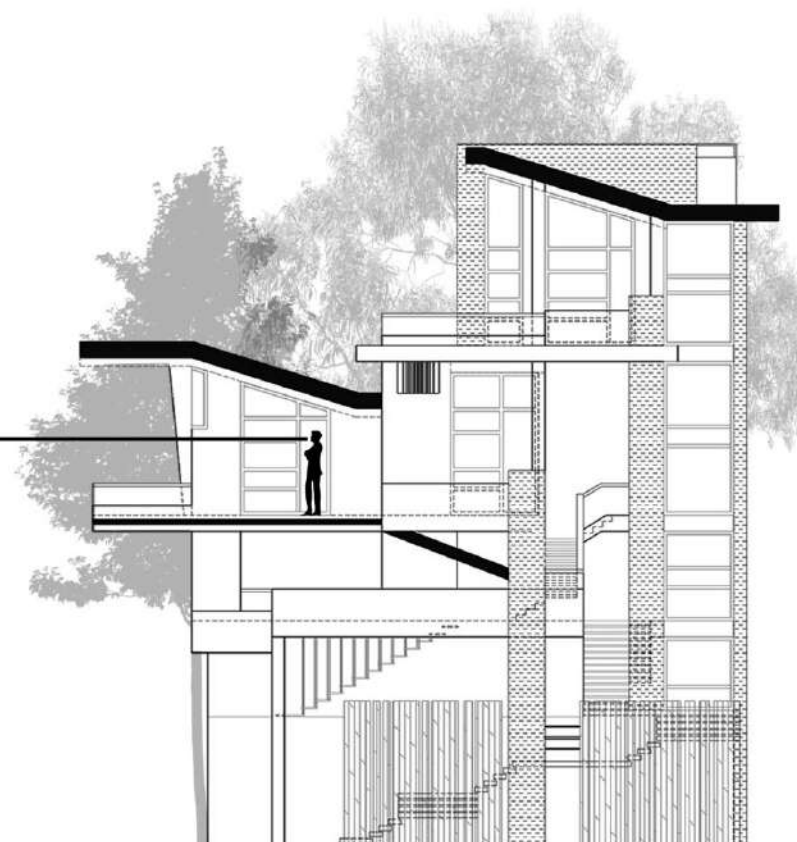


W.C



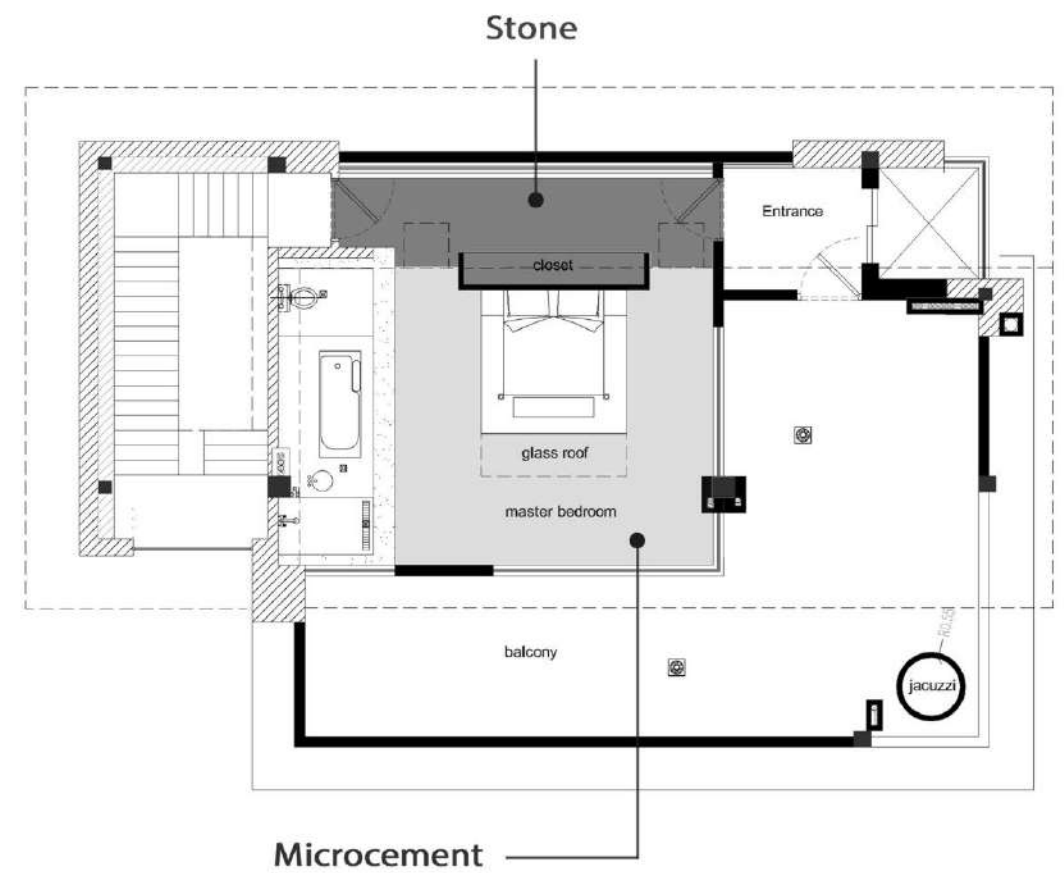
TV.Room

Design by means of large windows
for a panoramic view of the outside.



Closet

The private space of the bedroom is separated from the entrance by a closet and changing materials.





Master bedroom

Designing the master bedroom by means of microcement and linear lighting in the wall and the ceiling . Using pebbles to separate the bedroom and bathroom , designing the ceiling so that it gets the most visibility on the environment.



Terrace & Jacuzzi

Designing a wooden jacuzzi in terrace on the second floor with glass railings that you can have a good view to surrounding nature.

Supervision & Construction

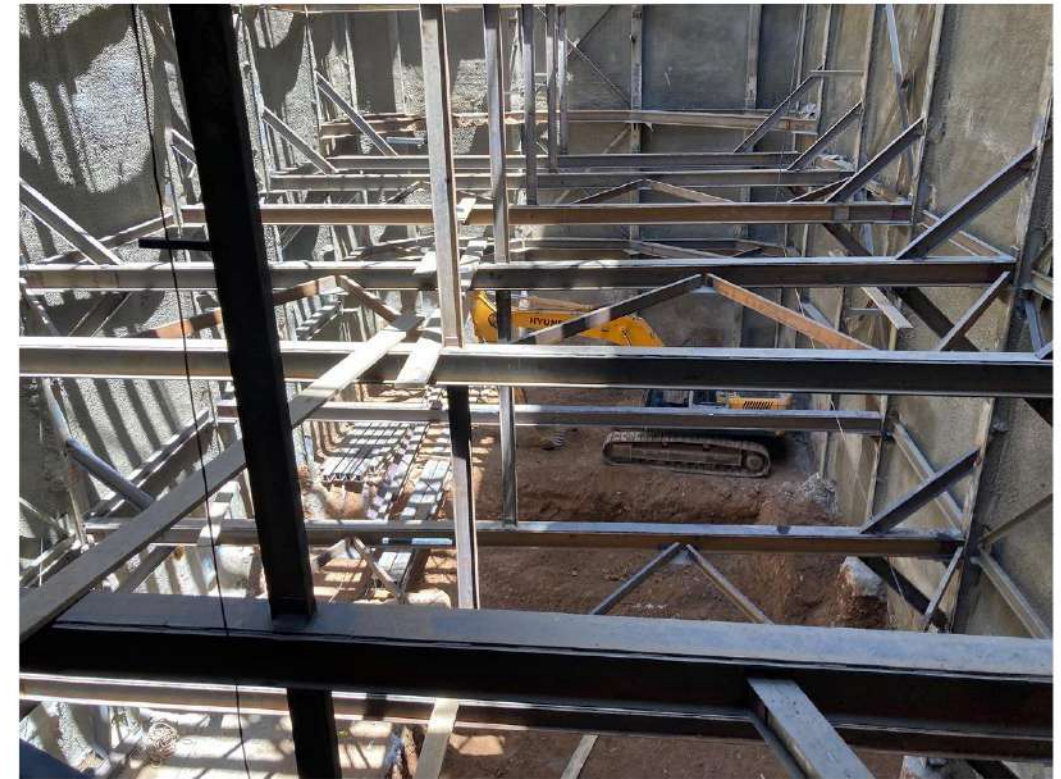
Concrete Structure

Brace Excavation (struts)



Location: District 1 - Farmanieh

کارفرما: آقای امیری
وضعیت: در حال ساخت
تاریخ شروع: ۱۳۹۹



Architecture

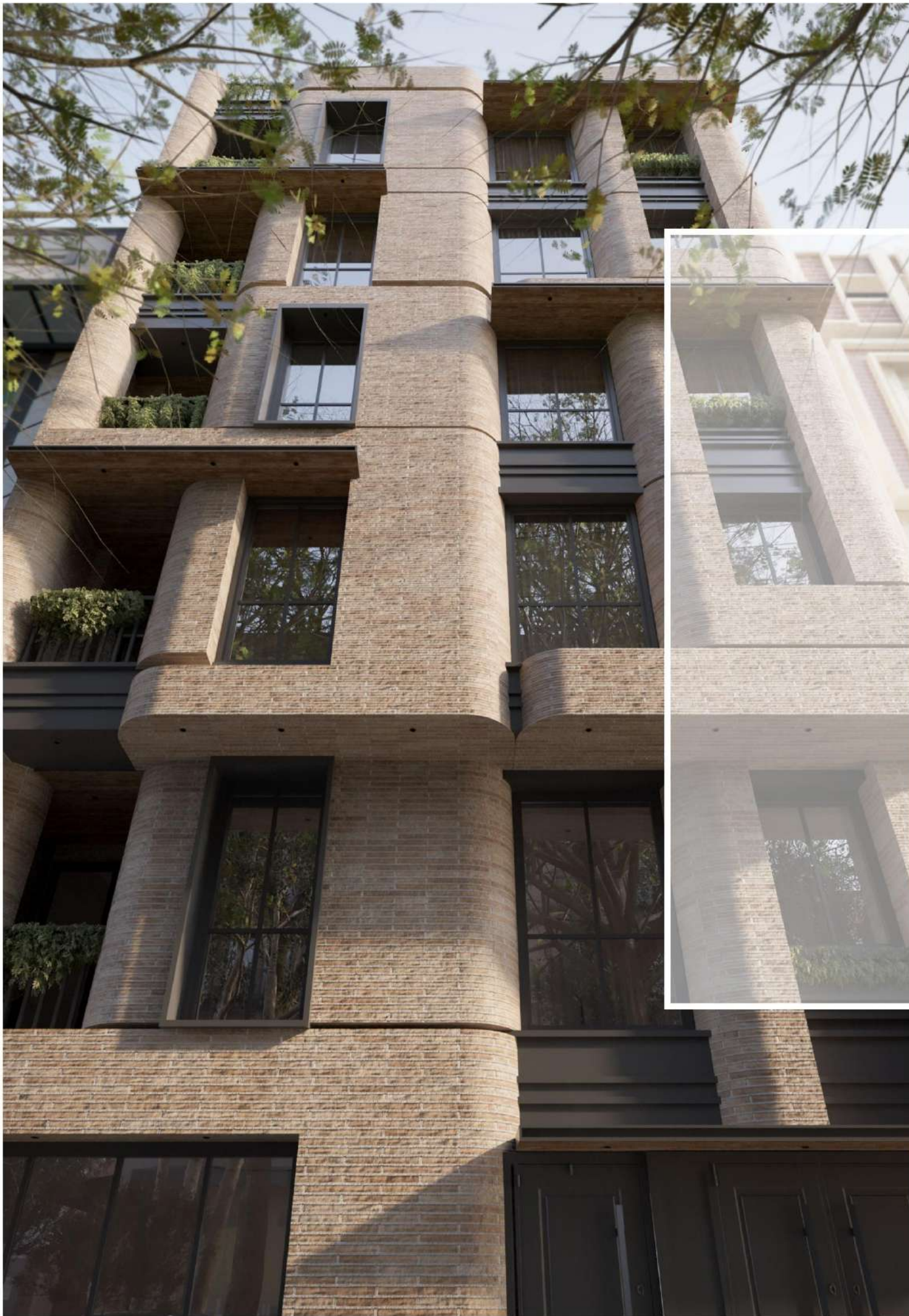


Residential Project

Client : Mr.Taheri

Total Area : 1395/07 m²

Location :Tehran-District 2



Special Design

Using bricks to curve some parts of the facade next to horizontal black metal.





Showing night rendering and facade lighting
by point lights under the shading extrusions.

Facade Lighting

Brick Material



Architecture

Residential Project

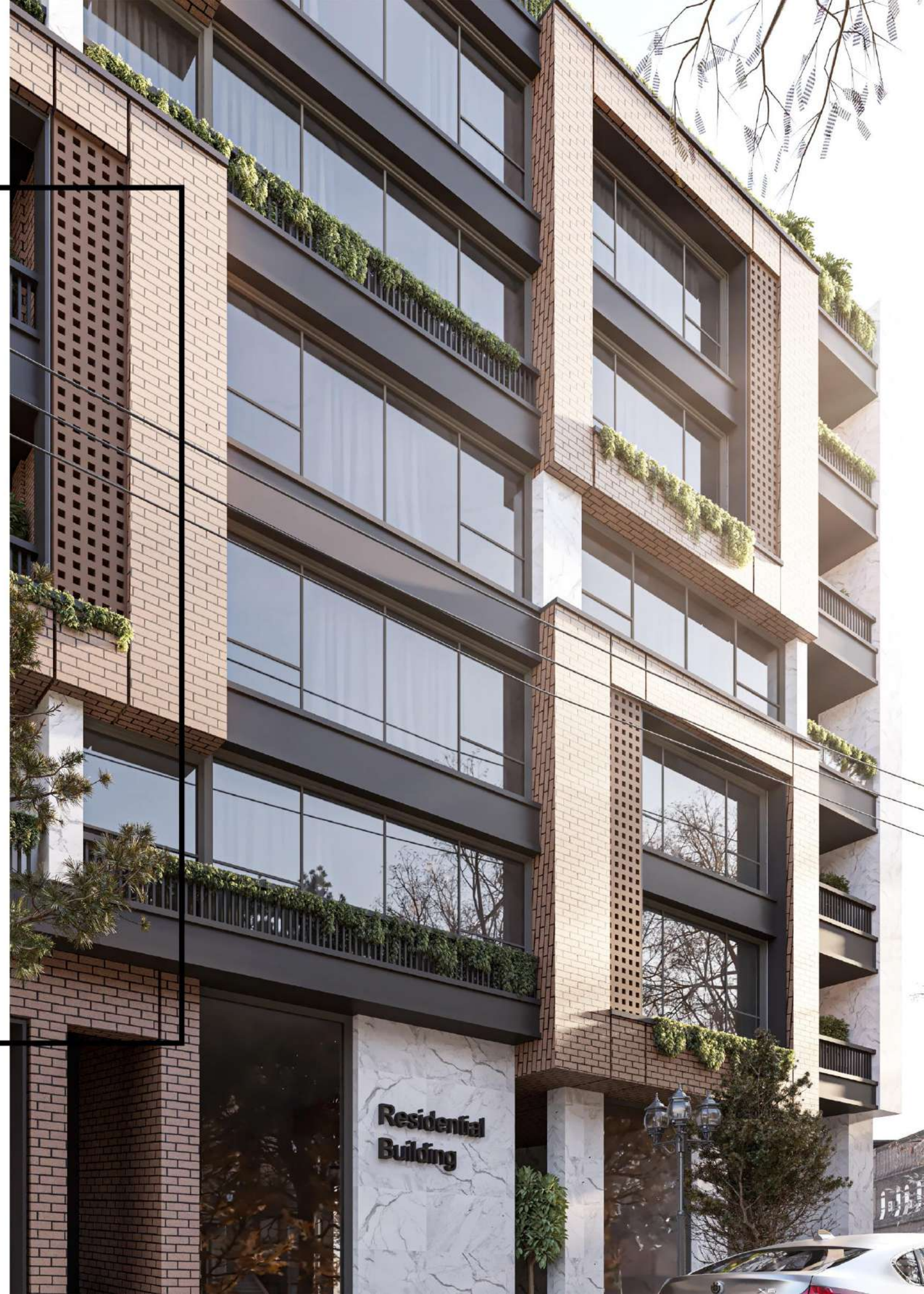
Alternative 1

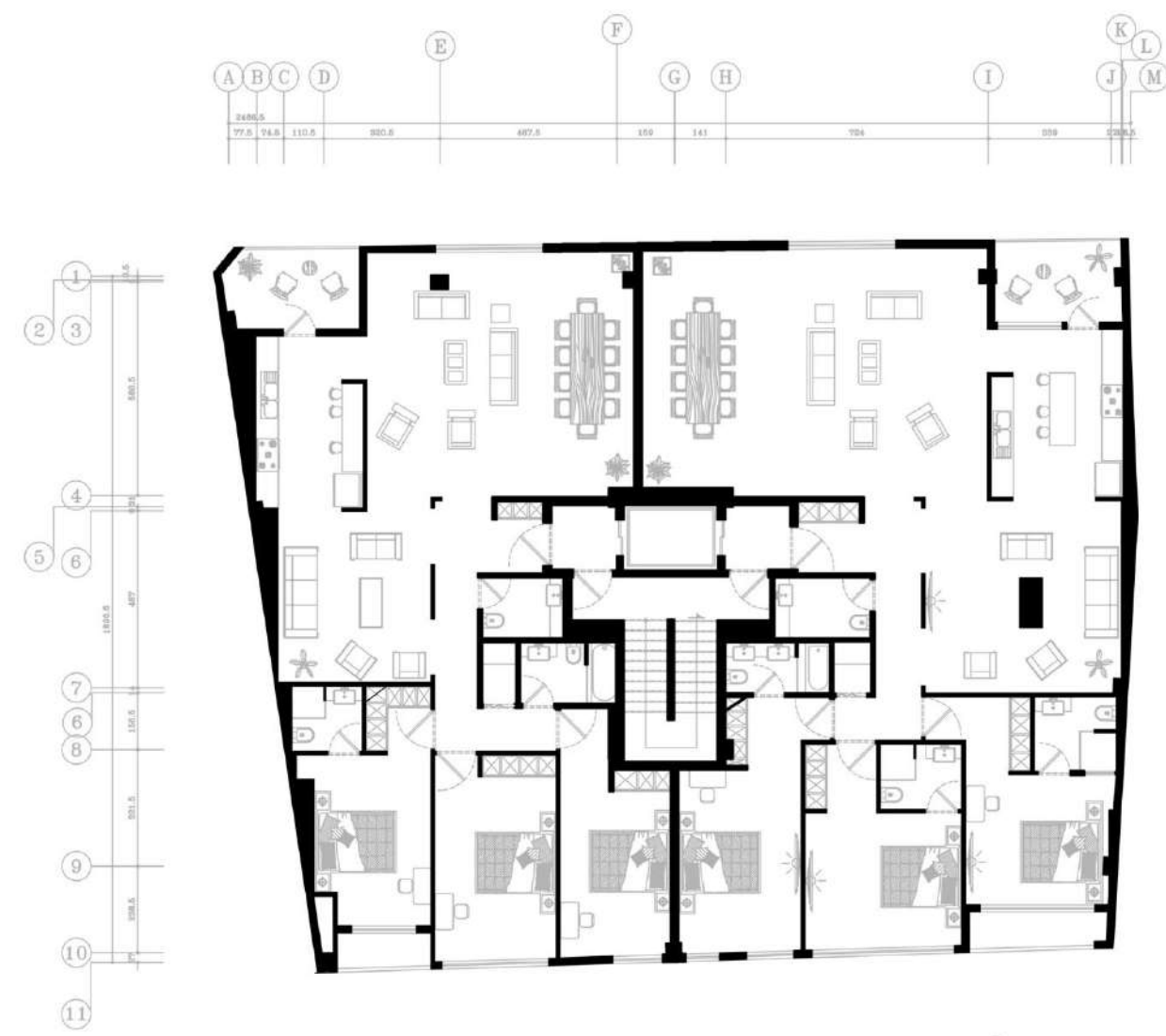
Cilent : Mr. Anabestani

Location : Tehran-Kamranieh

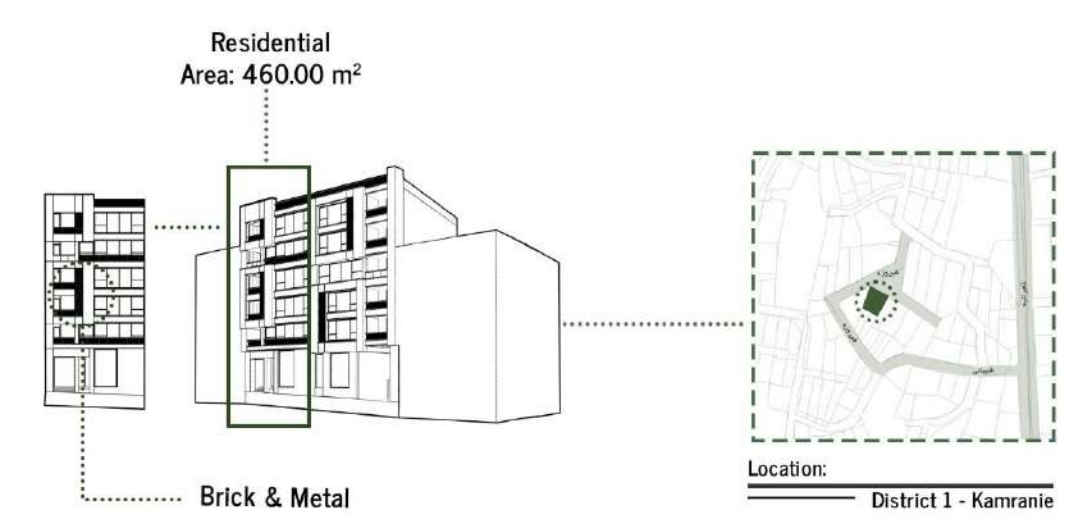
Total Area : 460.00 m²

Material : Stone-Brick-Metal





Architectural Plan



Facade

Alternative2

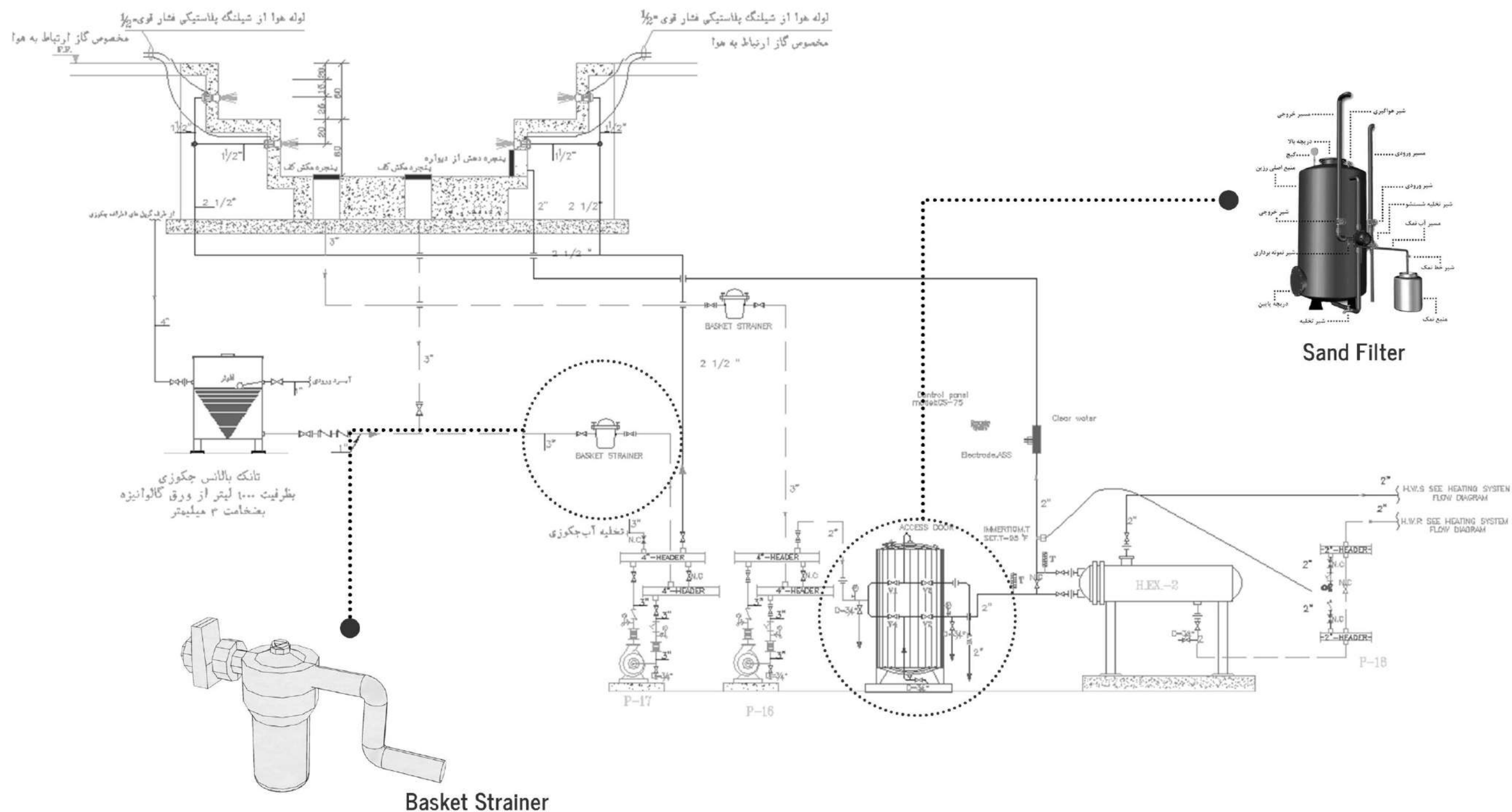
Material : Stone-Metal





Entrance

Mechanic



Mechanical Plan

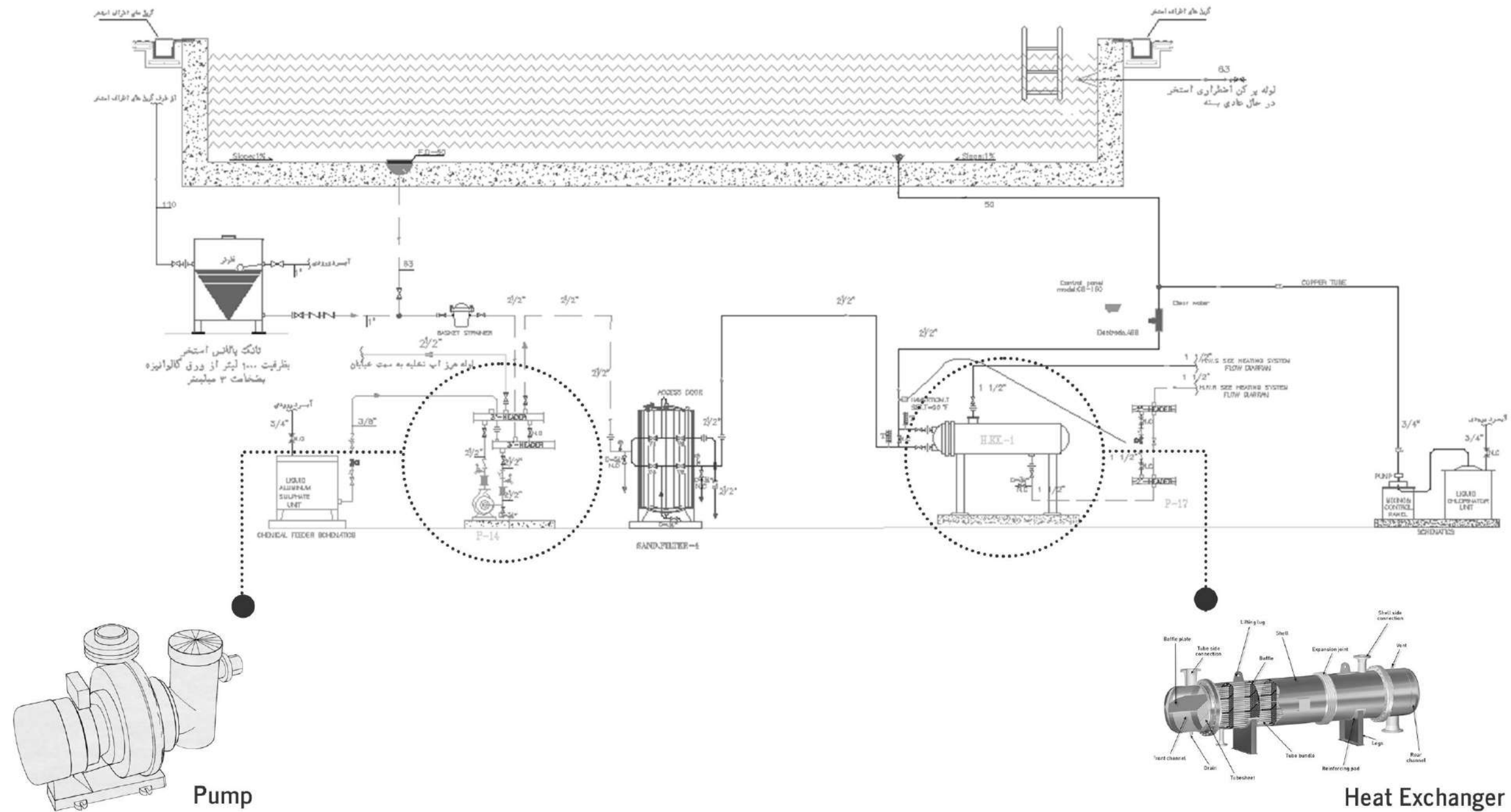
فلودیاگرام جکوزی

نحوه آبرسانی به جکوزی

- استفاده از مبدل حرارتی پوسته لوله
- جداگانه به دلیل تفاوت دمای آب در جکوزی
و استخر و همچنین در نظر گرفتن پمپ
جداگانه برای هر بخش برای کنترل سرعت
جریان آب

- استفاده از پمپ های نازل روی دیواره
جکوزی جهت ماساژ





Mechanical Plan

فلودیاگرام موتور خانه استخر

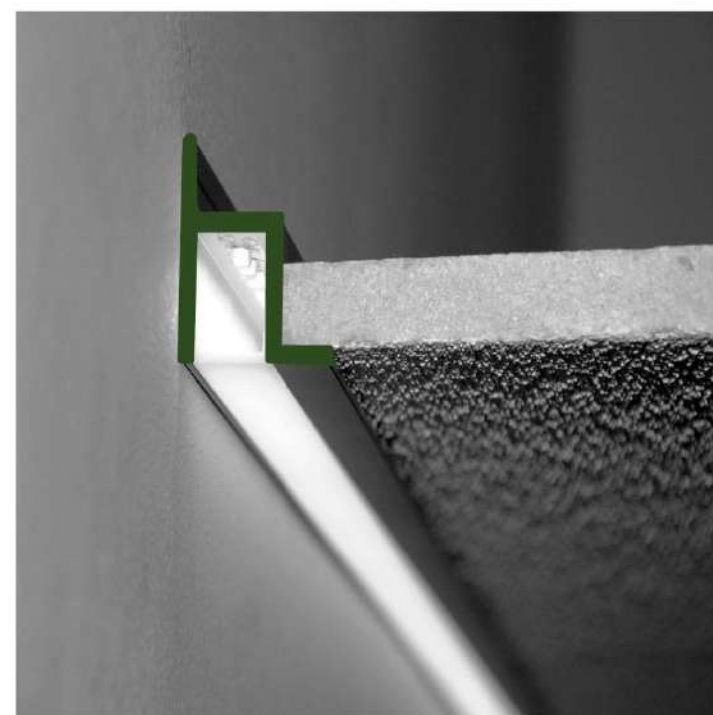
نحوه آبرسانی به استخر

- استفاده از روش سرریزی (به جای روش اسکیمری) برای آبرسانی جهت ذخیره آب در مرحله تصفیه و کاهش مصرف انرژی

- استفاده از موگیر پمپ مخصوص استخر، فیلتر شنی و محلول های مخصوص شیمیایی جهت تصفیه آب



Electric



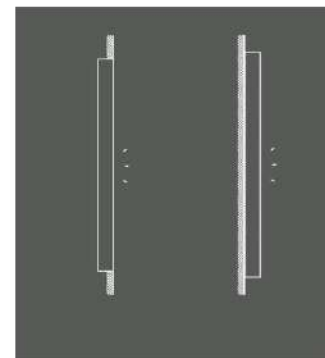
استفاده از نور خطی در نما

چراغ های خطی ضد آب (IP68)، به دلیل داشتن مقاومت در برابر نفوذ رطوبت ، گرد و غبار و مقاومت ضربه ای بالا بهترین انتخاب برای نور پردازی نما هستند.

∠ Beam Angle
Very Wide

Color Temperature
3000k - 4000k

Colors
Black/ White/ Gold/ Custom



Supervision & Construction



Steel Structure

Location: District 1 - Elahie

کارفرما : جناب آقای صفوی
وضعیت : در حال ساخت
تاریخ شروع : ۱۳۹۸

Architecture

Residential project



Facade Design

Client : Mr.Tavakoli

Location : Tehran-District 4

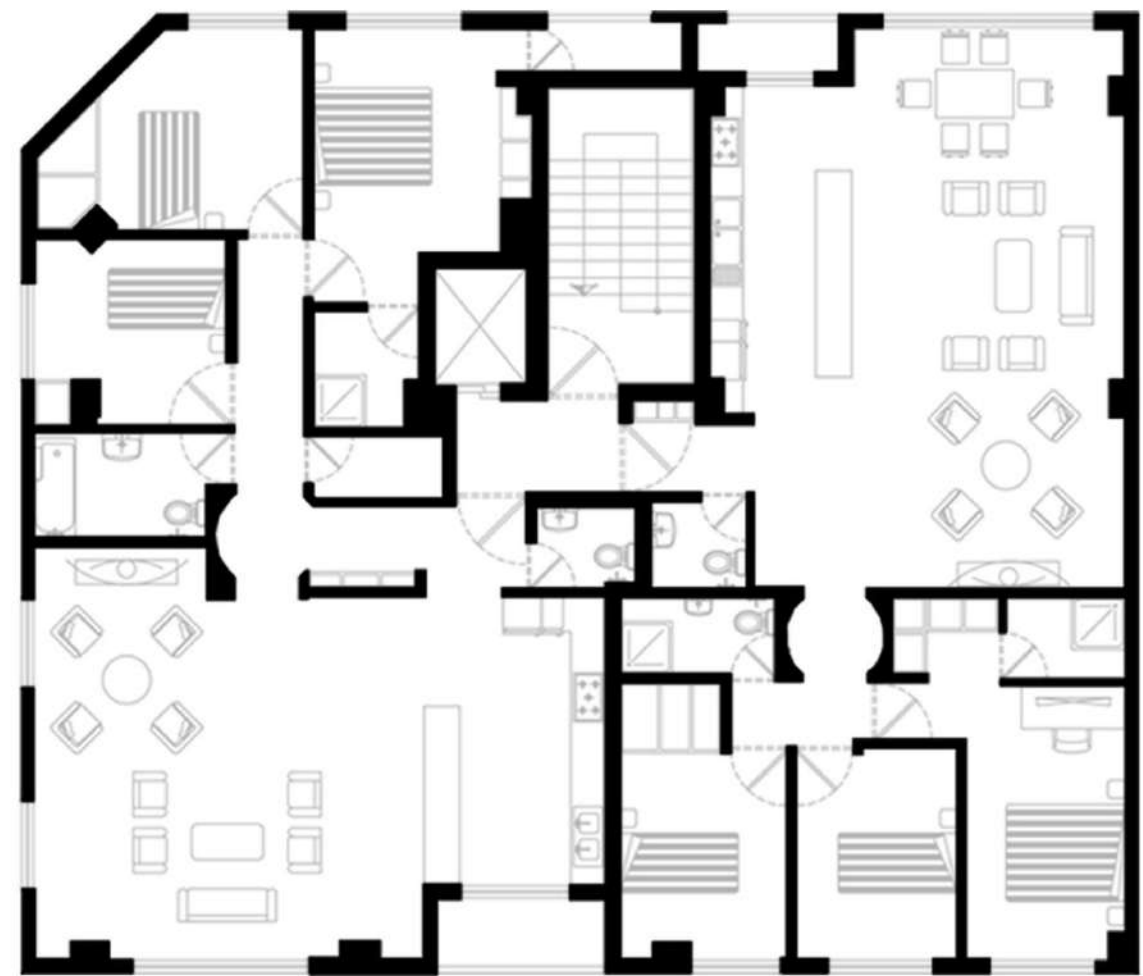
Total Area : 2106/75 m²

Material : Stone-Metal

Design Challenge

The Laleh project is located in the vicinity of two main streets, which caused many challenges in the design process because this facade was one of the first newly constructed facades and may be a sample for its neighboring facades.



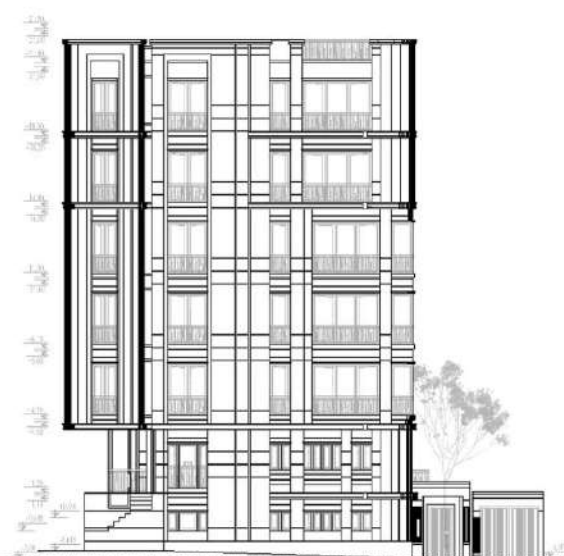


Architectural Plan

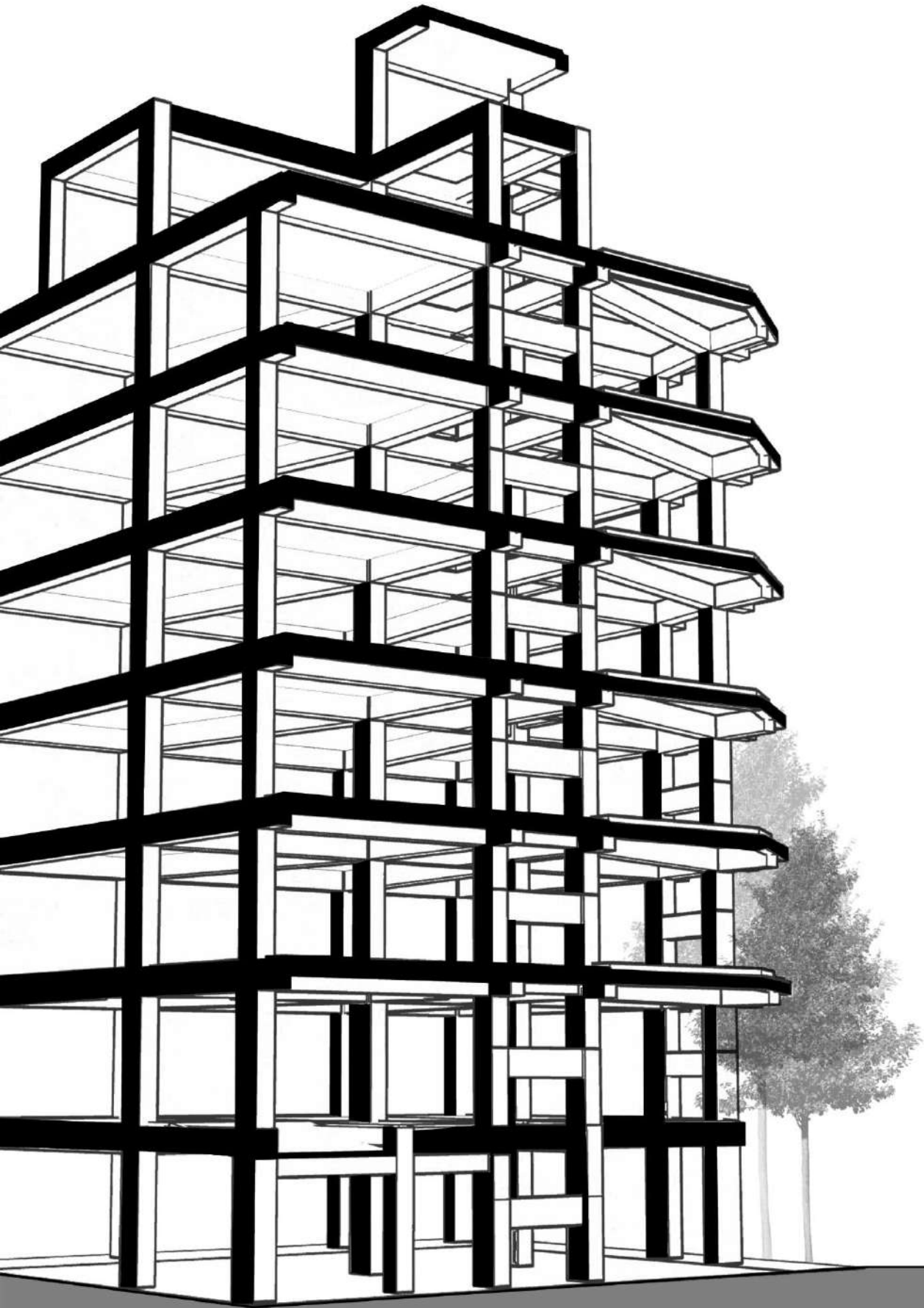


این پروژه در ۵ طبقه دو واحدی و به صورت تیپ طراحی شده است. به دلیل قرارگیری در مجاورت دو گذر همه فضاها نور طبیعی دریافت می کنند

Using vertical frames next to horizontal shading devices have increased the balance and harmony between the elements of elevation.

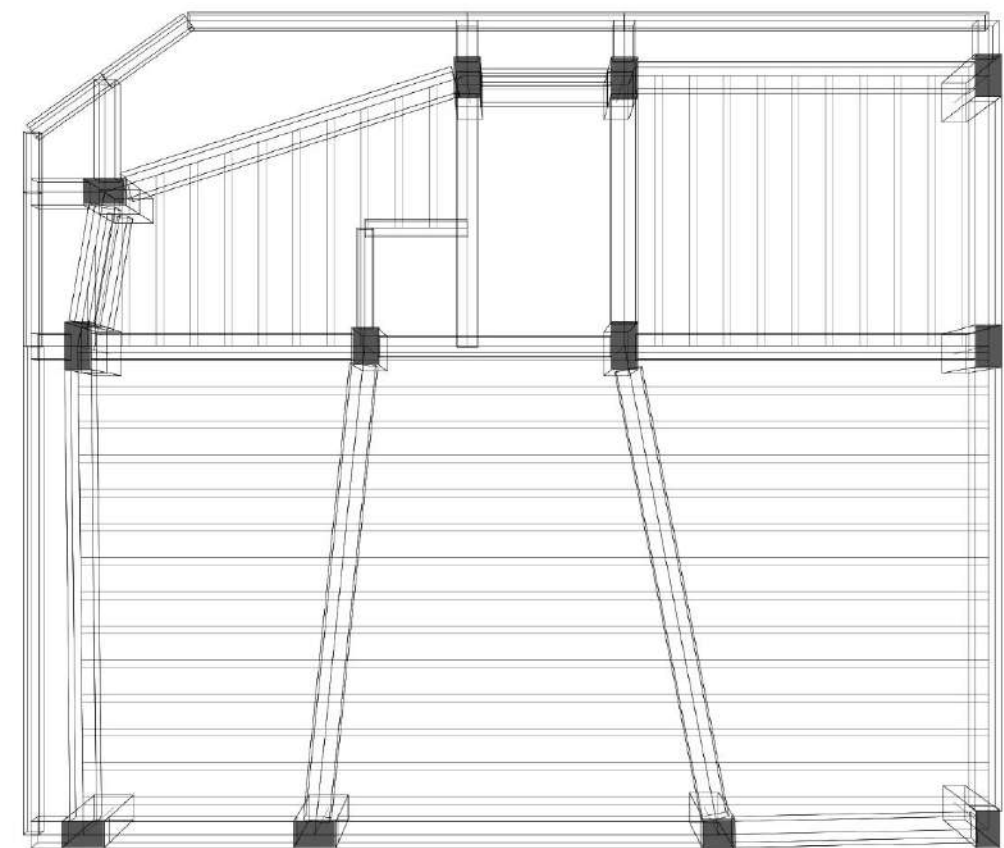


Structure



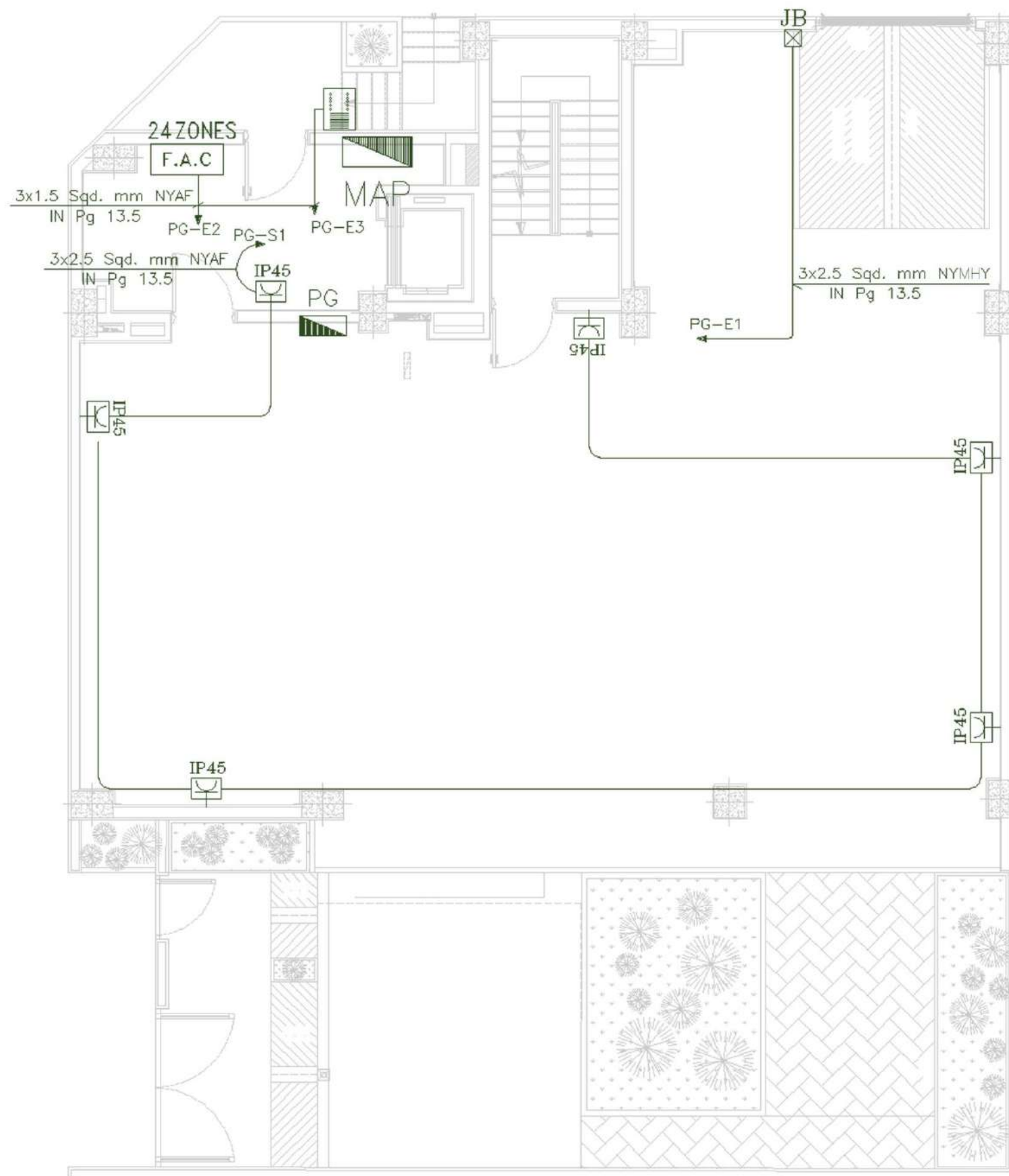
Structure

Concrete structure especially reinforced concrete structures are one of the most common type of structures used around the world.

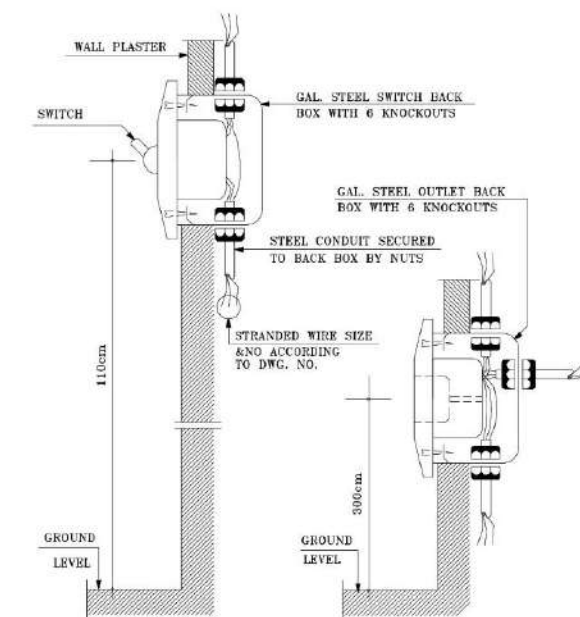


The coupling between steel and concrete allows engineers to design composite structures considering complex architectural geometries with fair costs.

Electric



Electerical Detail



جزییات نصب کلید و پریز

Ground Floor

Architecture

Residential

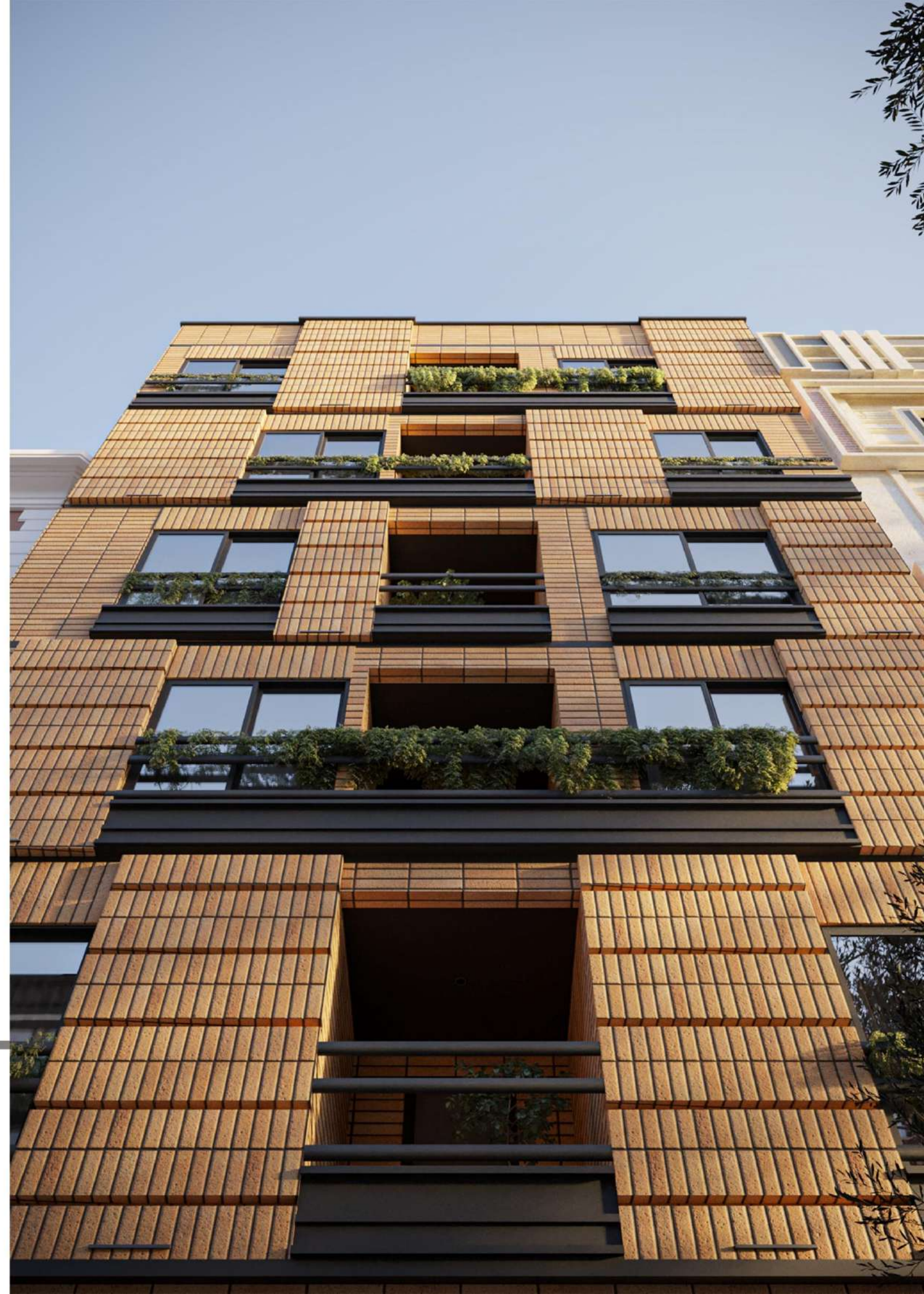
Project

Location: Tehran-District 2

Cilent : Mr. Keshtpoor

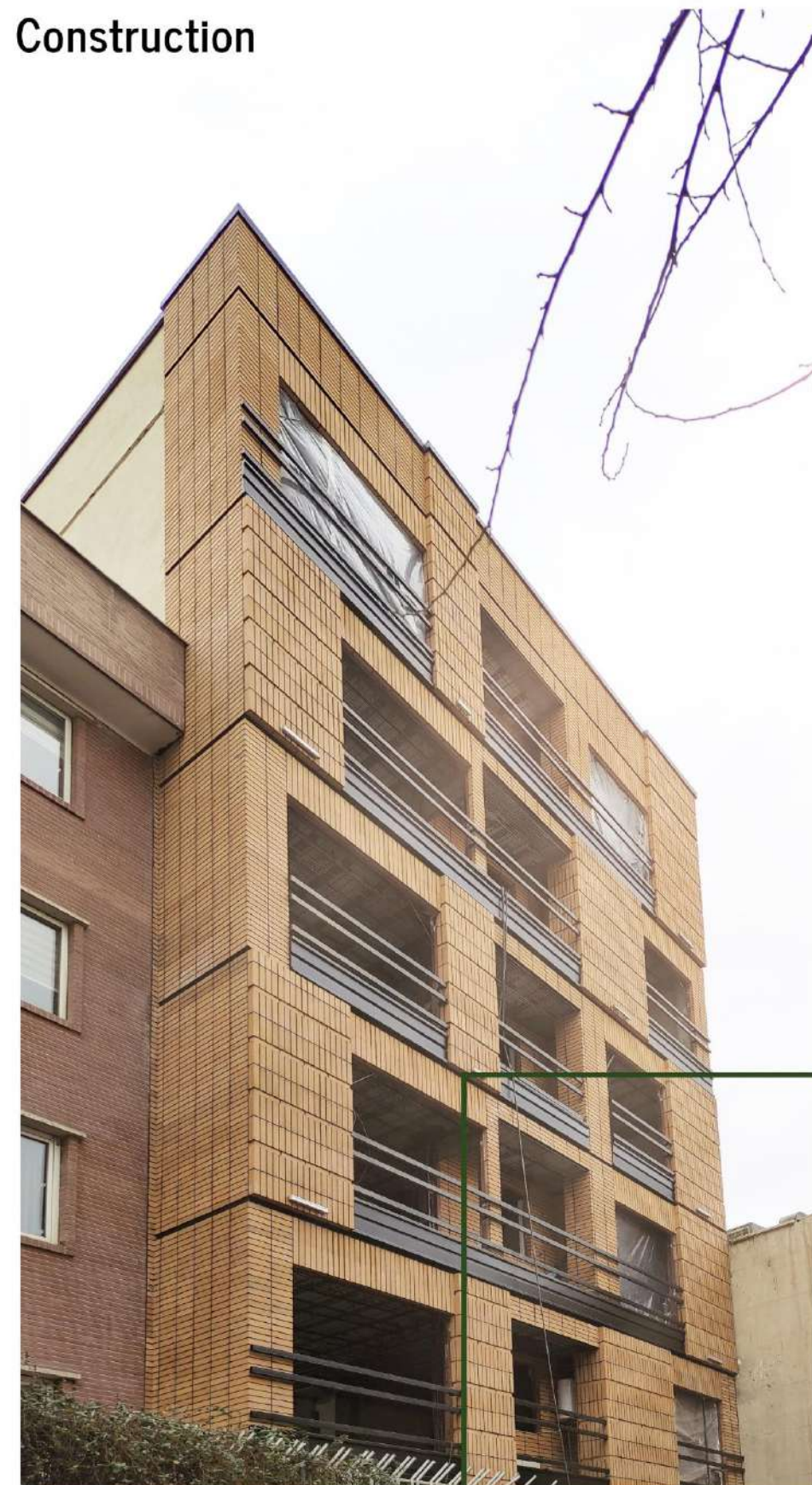
Total Area : 1195/24 m²

Material : Brick-Metal





Construction



The facade design of the building
is chosen as the best in district 2

1400.02.15

نمای برتر و برگزیده منطقه ۲

Design

Supervision & Construction

Location: District 1 - Elahie

Guard Structure

The guard structure can be dismantled when part of the structure is under construction, which can withstand landslides.

کارفرما : پروژه مهرگان
وضعیت : در حال ساخت
تاریخ شروع : ۱۳۹۹

Architecture

Pavilion Design



Facade Design Of The Army Hospital Pavilion

Client : 501 Army Hospital

Location : Tehran-District 6

Total Area : 2480 m²

Material : Cement



Lighting

The use of cement material with two contrasting colors and the concept of using linear fixtures on the body of the facade for lighting.

Facade Design Of The Army Hospital Pavilion

Client : 501 Army Hospital

Location : Tehran-District 6

Total Area : 2480 m²

Material : Cement



Architecture



Residential project

Client : Mr. Anabestani

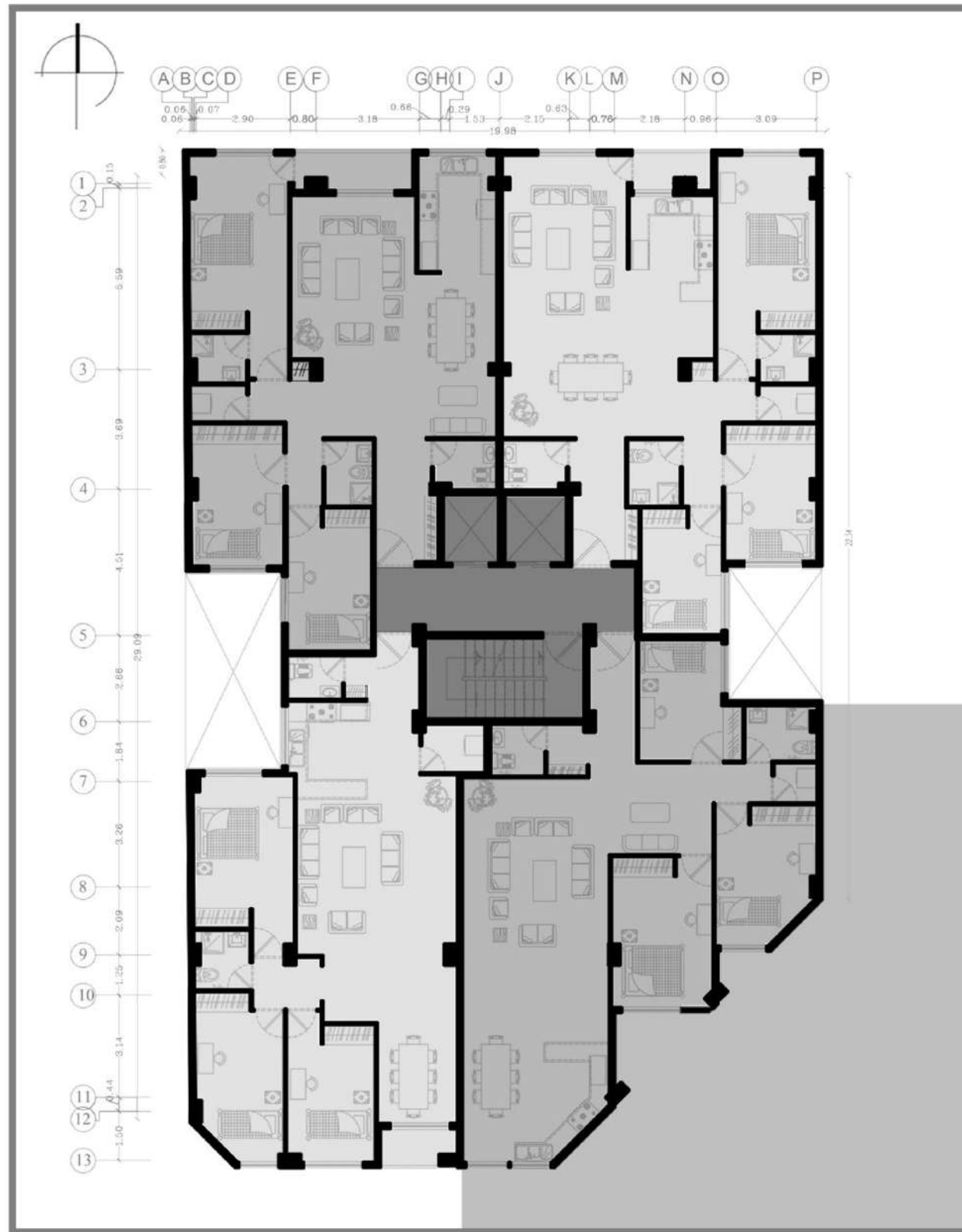
location : Reihani-Street

Total Area : 3932.00 m²

Material : Stone-Brick-Metal

Architectural plan

این طرح شامل ۵ طبقه ۴ واحدی به متراژ های ۱۲۰ و ۱۳۰ متری است که به صورت تیپ طراحی شده اند . به دلیل قرارگیری این پروژه در مجاورت دو گذر اکثر فضا ها نور طبیعی دریافت میکنند .



Construction



Design



Material : Stone-Brick-Metal



Match between
design & construction

Supervision & Construction



نمایش تاسیسات مکانیکی به صورت اکسپوز



اجرای سقف پیش تنیده پس کشیده

Guard Structure

Location: District 1 - Nobonyad

کارفرما : پروژه موج خاور
وضعیت : اتمام اسکلت
تاریخ شروع : ۱۳۹۷

Architecture



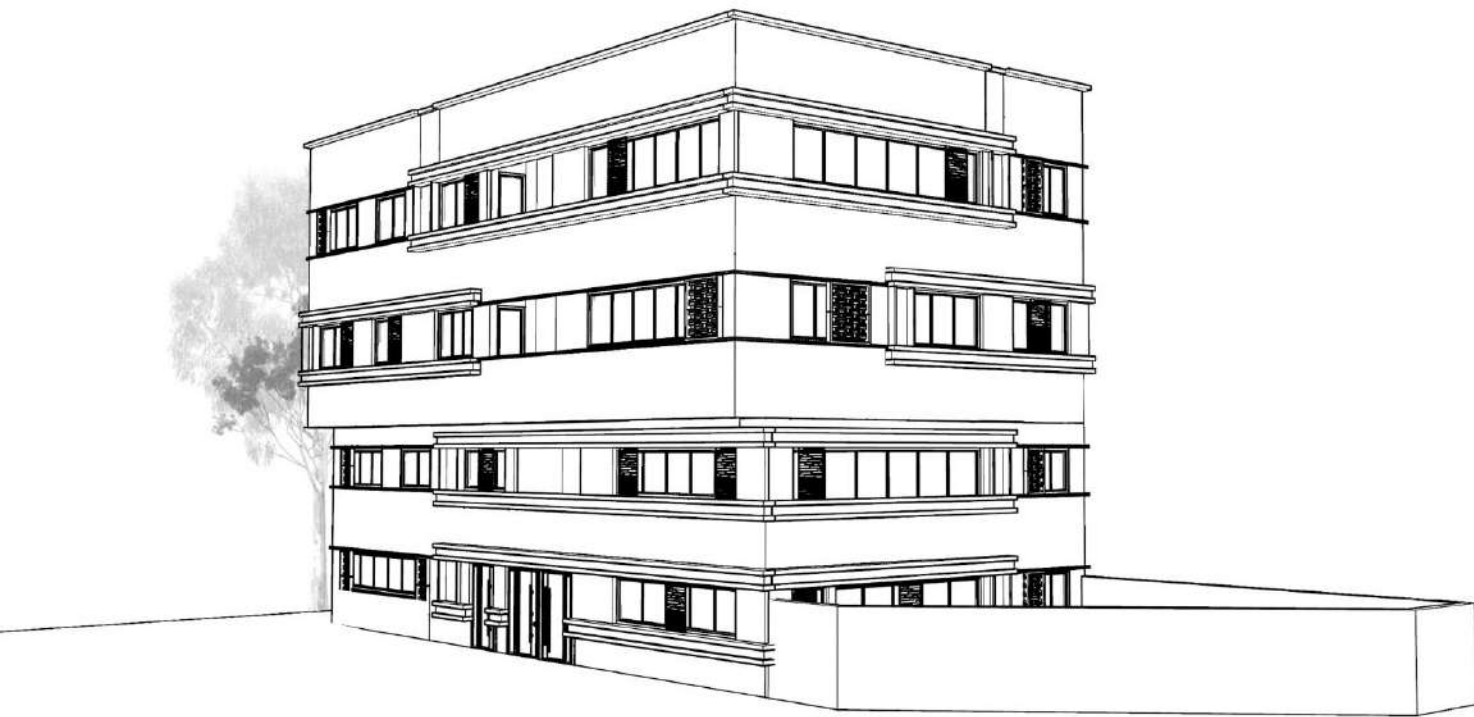
Residential project

Client : Mr. Mollanejad

Location : Tehran-Area 22

Total Area : 460.00 m²

Material : Stone-Brick-Metal



نمای برتر و برگزیده منطقه ۲۲

The facade design of the building is chosen as the best in district 22.

(1400/08/25)



Architecture

Novin Insurance

The **Proposed** Concept Of The Novin Insurance Project

The proposed concept of this project is designed according to its special location by subtracting some curved shapes from the whole volume.

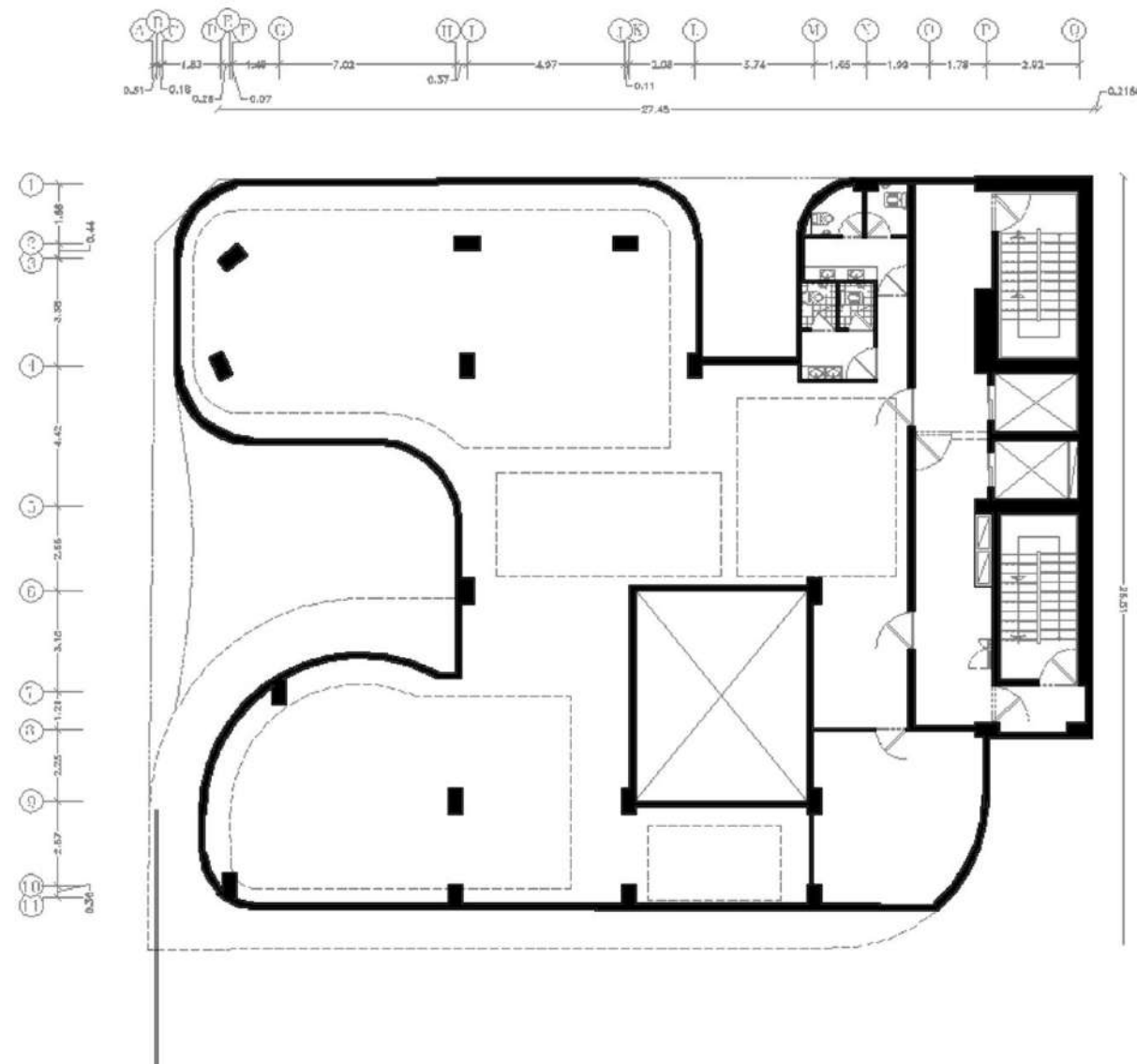
Client : Novin Insurance Project

Location : Mirdamad

Total Area : 8594/78 m²



Administrative project

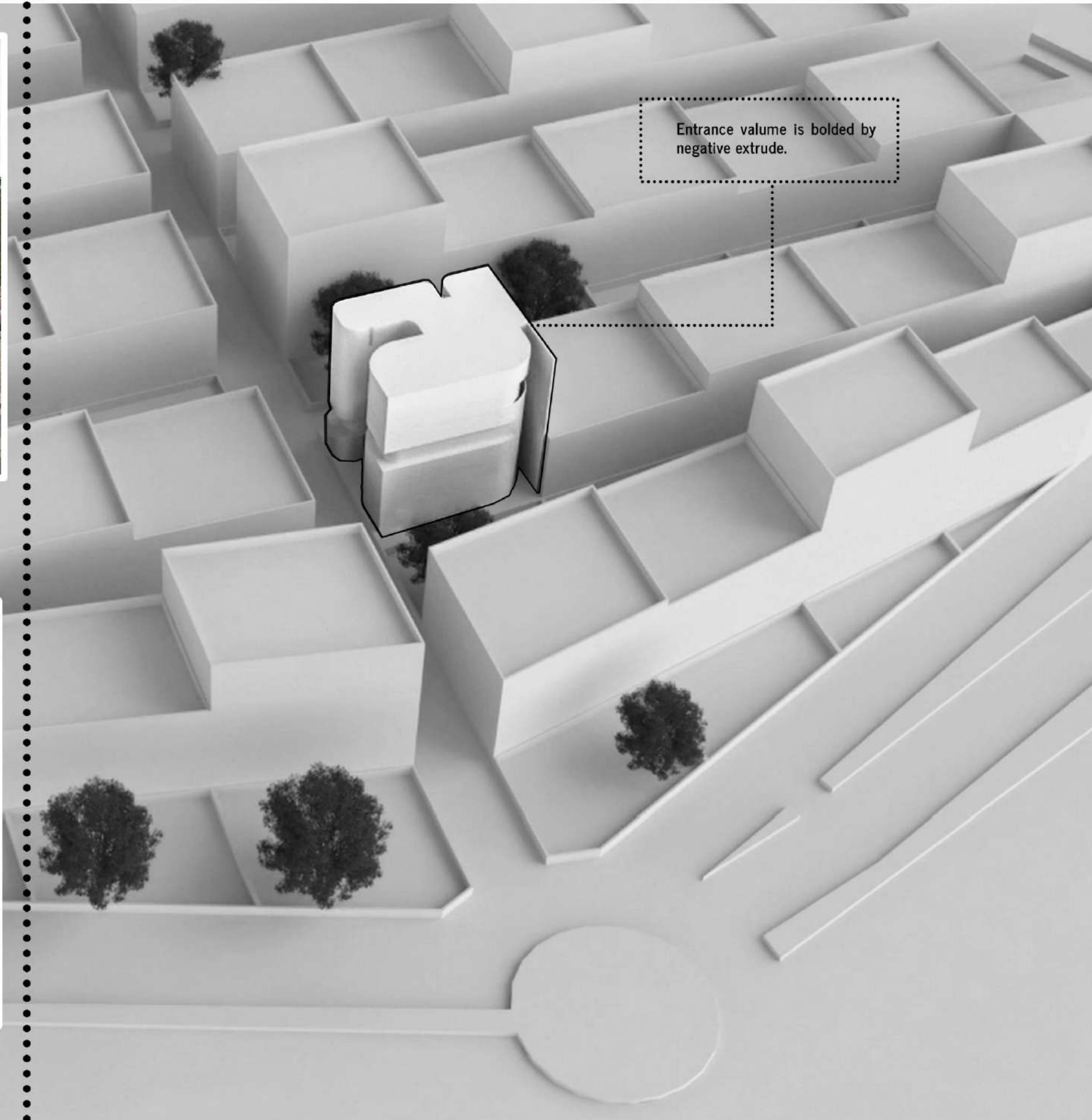


Architectural plan

پروژه بیمه نوین شامل 5 طبقه اداری روی همکف و 6 طبقه پارکینگ زیر همکف می باشد . این پروژه در مجاورت دو گذر قرار دارد و دارای دو ورودی کاملاً مجزا از هر دو گذر می باشد



Concept Design



Supervision & Construction



Foundation

Foundation is the lowest part of the building or the civil structure that is in direct contact with the soil safely.



Location: District 1 - Niavaran

کارفرما: آقای نجفی
وضعیت: در حال ساخت
تاریخ شروع: ۱۳۹۷

Waffle Roof

Waffle roof is a type of slab in which the beams are in two perpendicular directions and is used in different dimensions depending on the project.



One sided



Two sided

Location: District 1 - Bookan

کارفرما : آقای نجفی
وضعیت : در حال ساخت
تاریخ شروع : ۱۳۹۷





نشانی: تهران- میدان هروی- خیابان
وقامنش- نبش کوچه امید- پلاک ۱۰
طبقه ۲- واحد ۳

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