PORTFOLIO

MAHMOUD ALQAM

ARCHITECTURE + LIGHTING DESIGN

MAHMOUD
ALQAM

Architect + Lighting Designer



PROFESSIONAL SUMMARY

Architecture graduate and Lighting Consultant with experience in architectural lighting, illuminance calculations and technical coordination. My work connects design intent with luminaire selection, smart controls and energy-conscious solutions across residential, commercial and public-sector projects.

CONTACT

+971501988212
mahmoudalqam59@gmail.com
Dubai, UAE

PROFESSIONAL EXPERIENCE

Lighting Consultant | Architectural Lighting Design — 2022 - Present
Bristol Lighting Solutions LLC — DUBAI / UAE

Deliver lighting design and technical consultancy across residential, commercial, educational, retail and religious projects, from concepts and calculations through consultant coordination and approvals.

- Develop lighting concepts, layouts and illuminance calculations for interior, exterior, facade, landscape and shared facilities.
- Coordinate with architects, clients, designers and consultants to translate design concepts into practical lighting solutions.
- Evaluate luminaires, optics, power and color quality; prepare technical specifications, datasheets and consultant submittals.
- Support design reviews, mock-ups, smart controls and value engineering, including sustainable lighting and LEED-related LPD coordination.
- Selected projects: MAG City; MBL Residence - K1; Sobha - Waves Opulence (LEED); Winter Park.

Architect | Architectural Engineering Department — 2021 - 2022
Ministry of Public Works and Housing — JORDAN

Contributed to architectural documentation and design reviews for public-sector projects, with a particular focus on government schools and internationally supported developments.

- Prepared and reviewed **architectural drawings** and compared existing and proposed school-design approaches.
- Studied **European codes and grant-related design requirements** in relation to Jordanian standards, spatial needs and construction materials.
- Combined office-based analysis with **site observation**, examining design intent, constructability and execution. Gained exposure to schools, hospitals and public facilities.

CORE EXPERTISE

- Architectural Lighting Design
- Interior, Facade & Landscape Lighting
- Illuminance Calculations & Lux Assessment
- Luminaire Selection & Performance Evaluation
- Technical Specifications & Submittals
- Client & Consultant Coordination
- Smart Lighting & Control Integration
- Lighting Retrofit & Energy Optimization

DESIGN & PLANNING

- Lighting Concept Development
- Architectural Design & Spatial Planning
- Site Analysis & Code Review
- Design Presentation & Technical Coordination

RESEARCH INTERESTS

- Architectural Lighting & Visual Comfort
- Daylighting & Building Energy Performance
- Sustainable Buildings & LEED Strategies
- Smart Lighting Controls & Energy Efficiency
- Human-Centric Lighting & Indoor Environmental Quality

SOFTWARE

- Autodesk: AutoCAD, 3ds Max
- Rendering: V-Ray, Corona Renderer, D5 Render
- Modeling / Visualization: SketchUp, Lumion
- Adobe: Photoshop, Illustrator
- Productivity: Microsoft Office

INDUSTRY EXHIBITIONS

Light + Building Frankfurt, Germany | 2024

HKTDC Hong Kong International Lighting Fair 2025

EDUCATION

- Bachelor of Architecture — 2016 - 2021
  Istanbul Sabahattin Zaim University

LANGUAGES

- Arabic
- English
- Turkish

NATIONALITY

JORDANIAN

CONTENTS

01 — MAG CITY - MEYDAN
Dubai, UAE

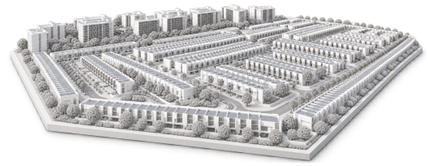
02 — MBL RESIDENCE K1 - JLT
Dubai, UAE

03 — SOBHA - WAVES OPULENCE
Dubai, UAE
Sustainability / Lighting Review & Coordination

04 — WINTER PARK
Dubai, UAE

05 — MODERN VILLA - ABDOUN
Amman, Jordan

06 — INCIRLI HOSPITAL
Istanbul, Turkey



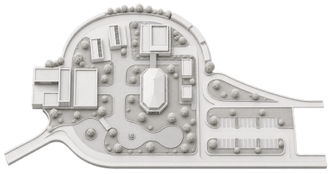
2022



2024



2025



2026



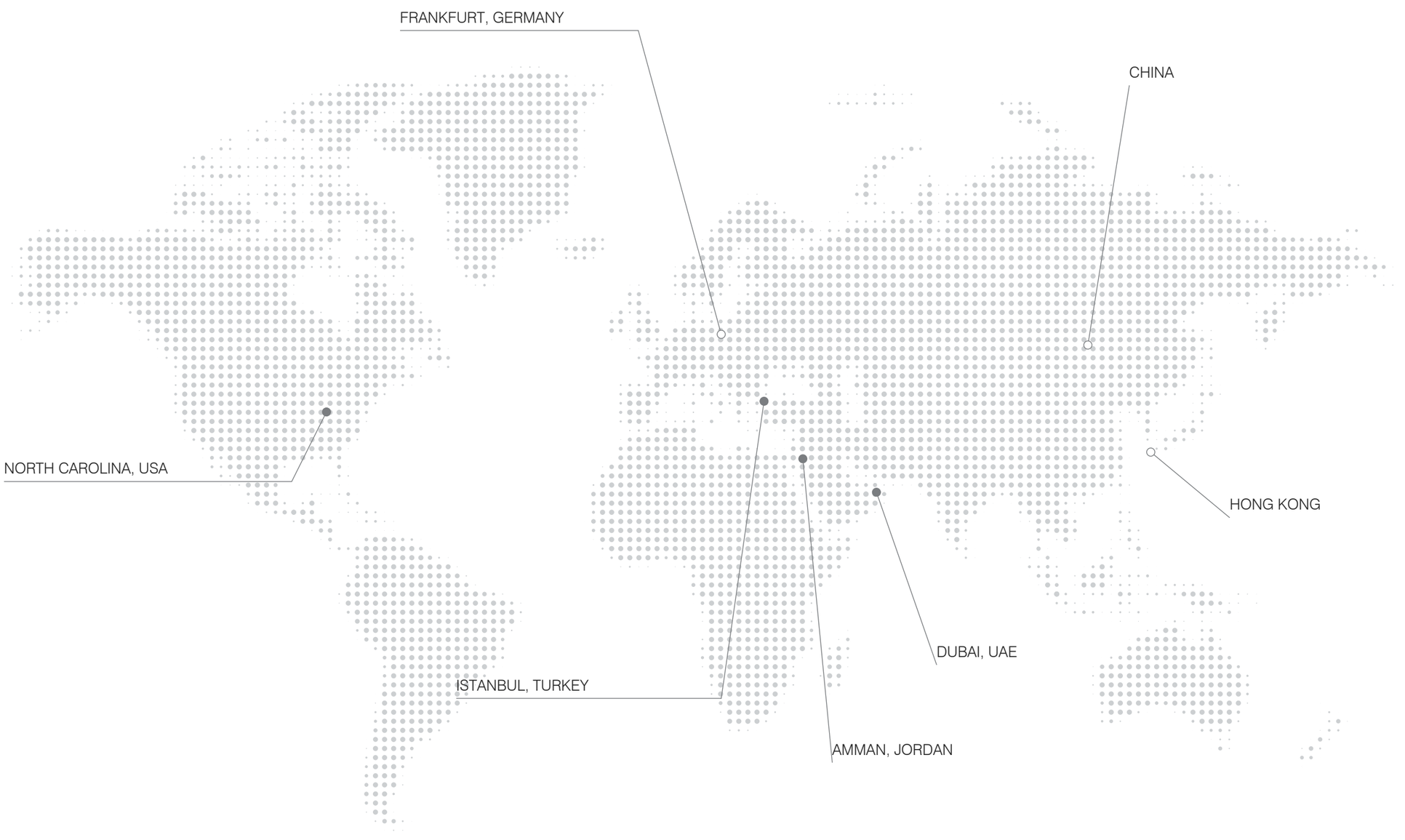
2021



2020

PROJECT LOCATIONS

PROJECTS + FAIRS



PROJECTS

EXHIBITIONS / FAIRS

WORLDWIDE

01. MAG CITY

Location: Meydan, Dubai, UAE
Project Type: Large-Scale Residential Development
Role: Lighting Designer & Consultant



PROJECT SCALE

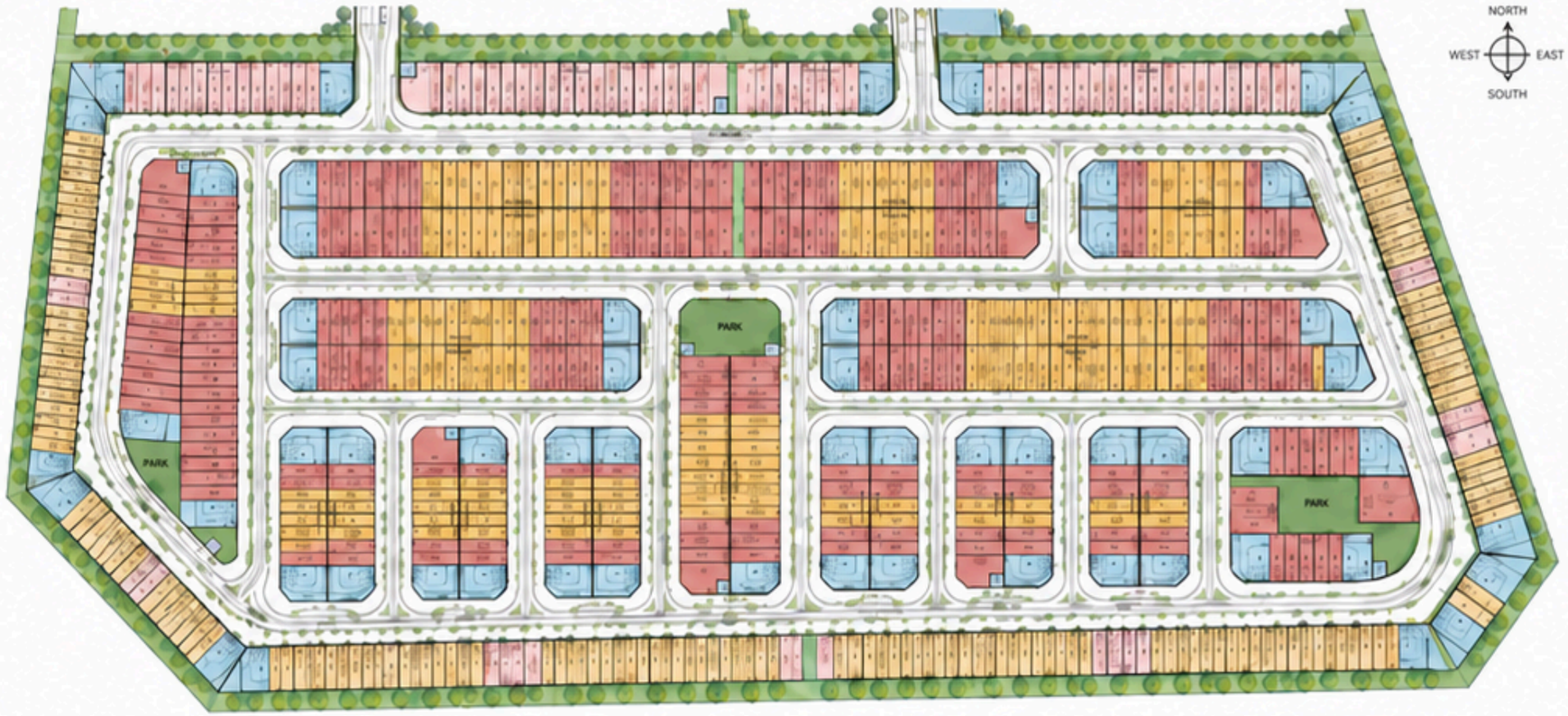
694
Townhouses & Villas

08
Residential Buildings

Lighting Strategy & Sustainability

The project integrates architectural lighting design with sustainability-oriented strategies to enhance visual comfort, spatial quality, and energy efficiency.

A layered lighting approach combines ambient, task, and accent lighting to minimize unnecessary illumination while supporting diverse residential functions. High-efficiency LED luminaires, carefully selected warm color temperatures, and spatial zoning strategies contribute to energy-conscious design and a comfortable residential environment.



Townhouse Masterplan

Townhouse - 4B	59 units	Townhouse - 2A	148 units
Townhouse - 3A	80 units	Townhouse - 2B	199 units
Townhouse - 3B	208 units		

Parks
Landscape



Built Project / Townhouses



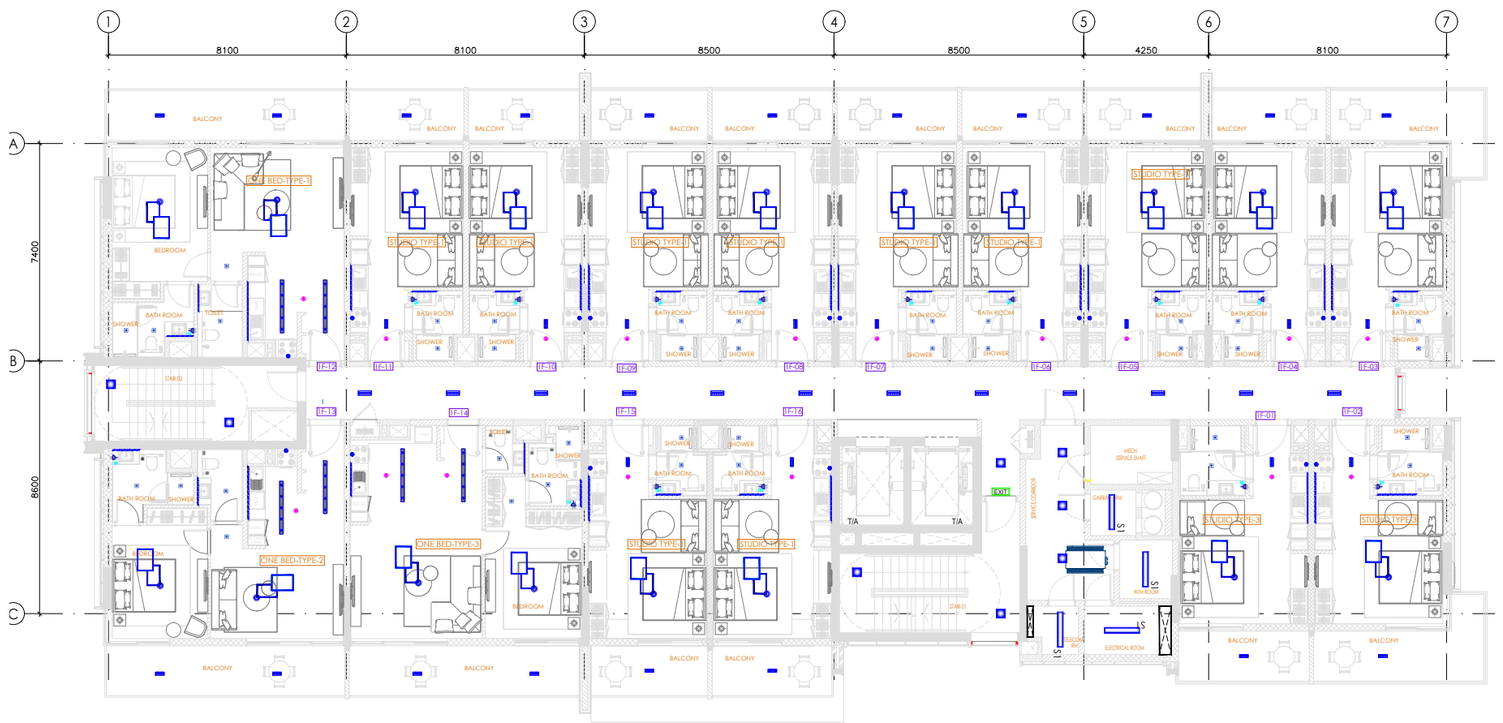
Built Project / Residential Buildings

TECHNICAL LIGHTING & BUILDING PERFORMANCE

From Design Concept to Quantitative Analysis

Lighting layouts were developed in coordination with architectural plans, circulation routes, and functional requirements. DIALux simulations were personally conducted to evaluate illuminance distribution, lighting power density, and spatial lighting performance.

The technical approach connects architectural integration with energy-conscious LED specification, providing a foundation for further optimisation of visual comfort, lighting controls, and building energy performance.



01 ORIGINAL LIGHTING LAYOUT / E-302 TYPICAL FLOOR

TECHNICAL FOCUS

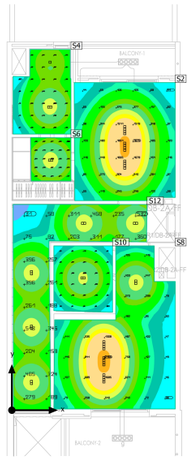
- Lighting Layouts
- DIALux Simulation
- Illuminance Analysis
- Lighting Power Density
- Architectural & MEP Coordination

02 ACTUAL DIALux SIMULATION / TOWNHOUSE CASE STUDIES

GROUND FLOOR



FIRST FLOOR



MEASURED OUTPUTS / DIALux MODEL

SPACE / WORKPLANE	E avg	g1
GF Living / Dining	**381 lx**	0.10
GF Corridor	**235 lx**	0.064
1F Master Bedroom	**419 lx**	0.087
1F Dressing	**326 lx**	0.34
1F Bedroom	**386 lx**	0.090
1F Corridor	**282 lx**	0.085

Lighting power density / selected rooms

GF Living / Dining 4.82 W/m² 1F Master Bedroom 5.32 W/m²



ARCHITECTURAL
LIGHTING DESIGN

Light as an Architectural Element
The lighting approach focuses on enhancing architectural identity and spatial experience through balanced ambient, task, and accent illumination.

Integrated lighting solutions were developed to highlight architectural forms, establish visual hierarchy, and create comfortable residential environments while considering energy-efficient LED technology and controlled light distribution.

Design Focus

Architectural Integration
Visual Comfort
Layered Illumination
Energy Awareness





02. MBL RESIDENCE

Location:	Jumeirah Lakes Towers, Dubai, UAE
Project Type:	Luxury Residential Development
Role:	Lighting Designer & Consultant
Scope:	Residential Interiors · Common Areas · Amenities
	Smart Lighting Integration

LIGHTING DISTRIBUTION

LT01–LT04 / LINEAR LED & RECESSED SPOTLIGHTS

DESIGN APPROACH

The proposed scheme combines indirect linear LED and recessed spotlights as complementary lighting layers within the residential plans.

INDIRECT LINEAR LED / LT01–LT02

3000K; dimmable. IP20 and IP65 versions address different dust and water exposure conditions. Aluminium profiles are specified for installation and thermal management.

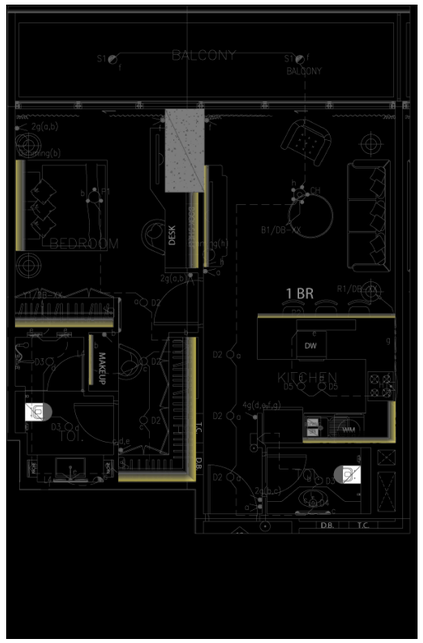
RECESSED SPOTLIGHTS / LT03–LT04

4000K; dimmable. Their placement forms a functional lighting layer alongside the indirect lighting.

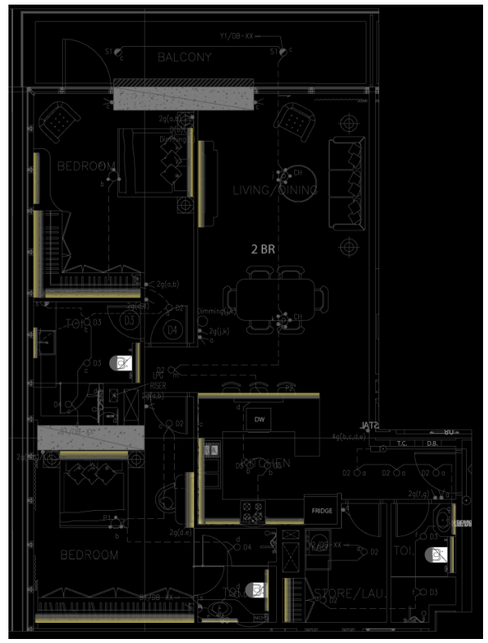
INTERPRETATION

The distinction is architectural integration versus more direct functional illumination; no claim of achieved glare control or energy savings is made.

INDIRECT LINEAR LED

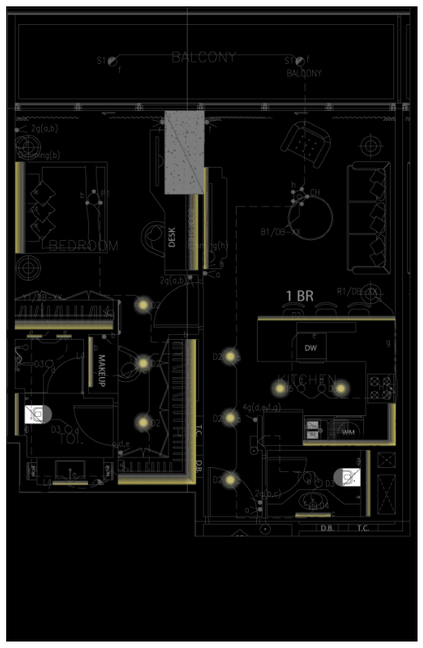


TYPICAL 1BR / LT01

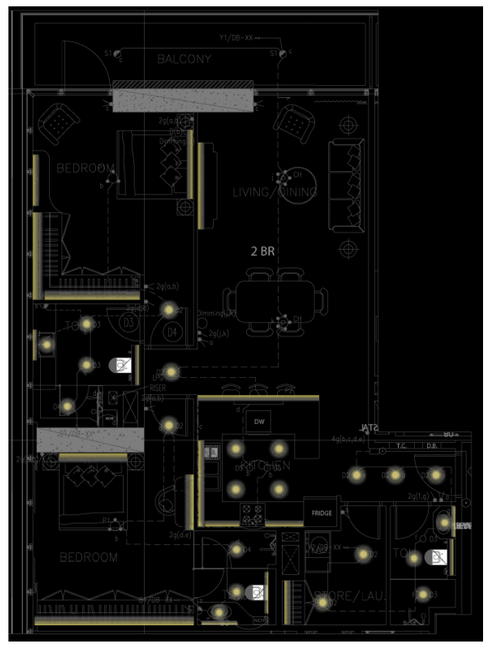


TYPICAL 2BR / LT02

RECESSED SPOTLIGHTS



TYPICAL 1BR / LT03



TYPICAL 2BR / LT04

LIGHTING DISTRIBUTION

LT05–LT06 / DECORATIVE LUMINAIRES

DESIGN APPROACH

Decorative pendants combine a visible interior design element with a localized source of illumination within the residential lighting scheme.

ORIGINAL SPECIFICATION

LT05: 50W, 4000K. LT06: 40W, 4000K.

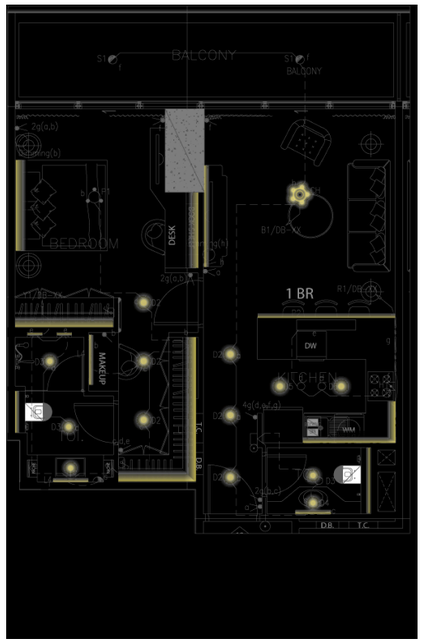
DESIGN RELATIONSHIP

The pendant fixtures are a distinct component of the scheme alongside concealed LED strips and recessed spotlights.

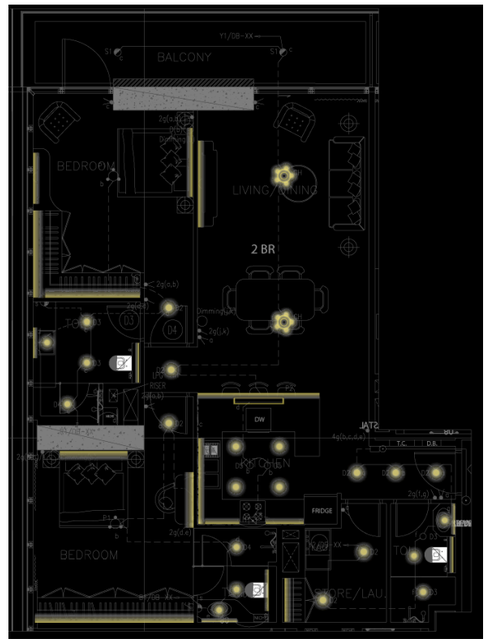
SCOPE OF ASSESSMENT

The available specification establishes luminaire type and rated power, but does not itself verify task-plane illuminance beneath each pendant.

DECORATIVE PENDANT

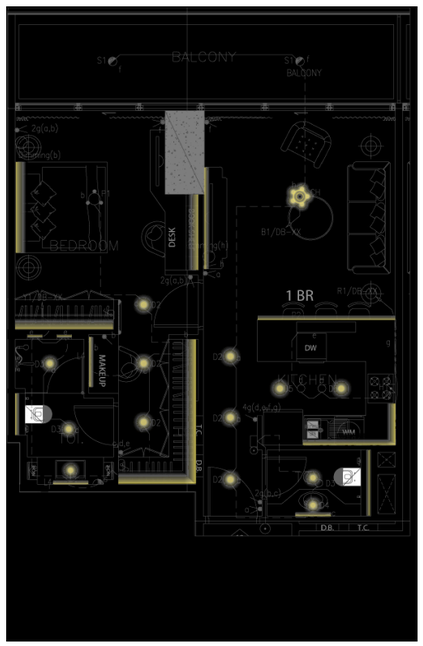


TYPICAL 1BR / LT05



TYPICAL 2BR / LT06

DECORATIVE PENDANT



TYPICAL 1BR / LT05



TYPICAL 2BR / LT06

LIGHTING DISTRIBUTION

LT07–LT09 / DECORATIVE & CEILING-MOUNTED

TABLE & FLOOR LAMPS

LT07 is a 15W table lamp and LT08 a 20W floor lamp; both are specified at 3000K. They provide localized decorative lighting within the interiors.

BALCONY LUMINAIRE

LT09 is a 16W ceiling-mounted luminaire specified at 3000K for the balcony.

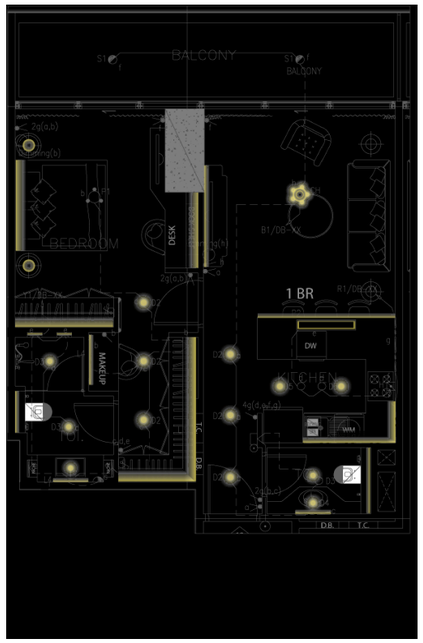
DESIGN RELATIONSHIP

These types distinguish localized decorative interior lighting from fixed balcony illumination.

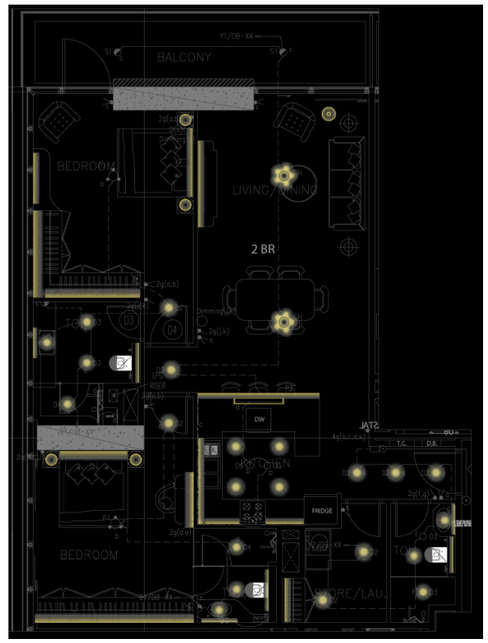
TECHNICAL LIMITATION

The source does not provide a verified IP rating for LT09; outdoor suitability must be confirmed against the installation conditions.

TABLE & FLOOR LAMPS

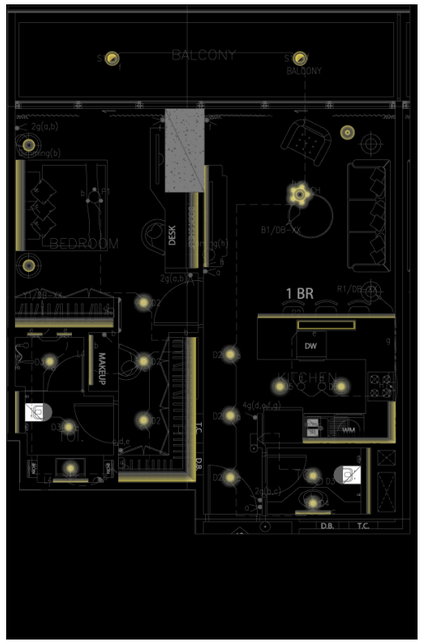


TYPICAL 1BR / LT07

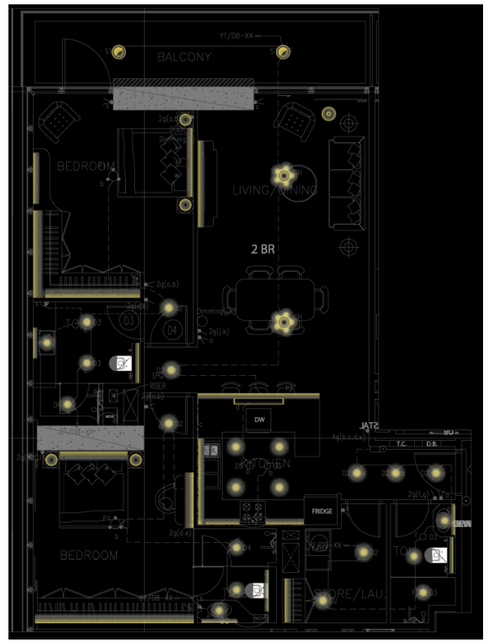


TYPICAL 2BR / LT08

BALCONY LIGHTING



TYPICAL 1BR / LT09



TYPICAL 2BR / LT09

SPATIAL ZONING

FUNCTIONAL CLASSIFICATION

The lighting study began with a review of the spatial organisation of one- and two-bedroom apartment typologies.

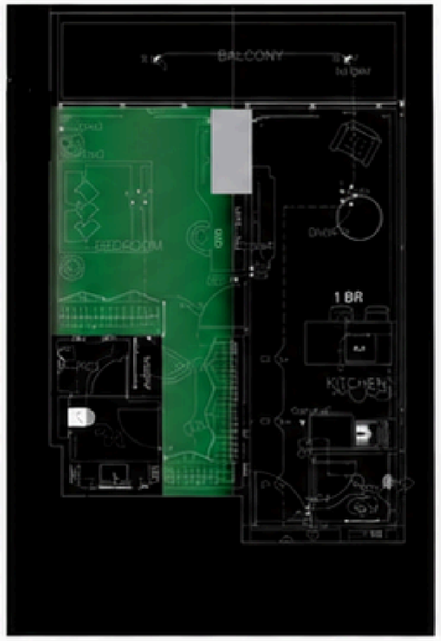
Bedrooms and living areas were identified as separate functional zones because their patterns of use and visual activities differ. This zoning framework supported subsequent coordination between the architectural layout and luminaire selection.

ZONING LEGEND

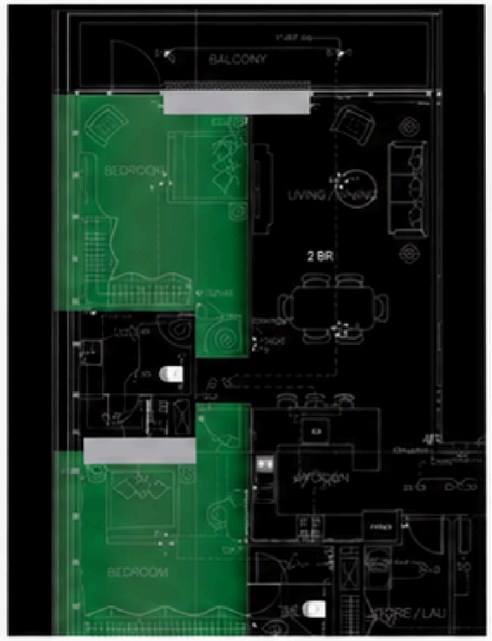
Bedroom

Living / Dining

BEDROOM ZONING

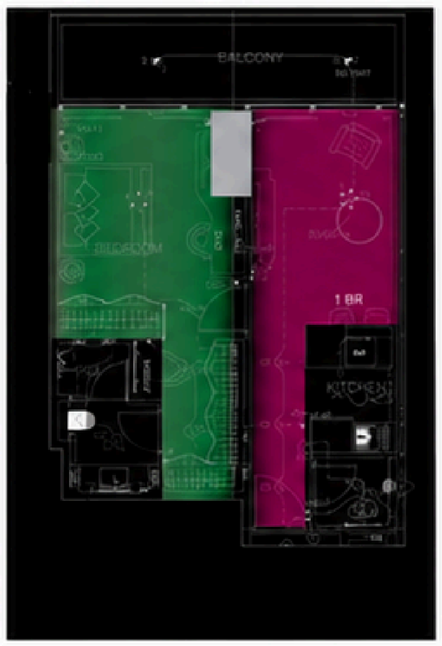


TYPICAL 1BR / TYPE A

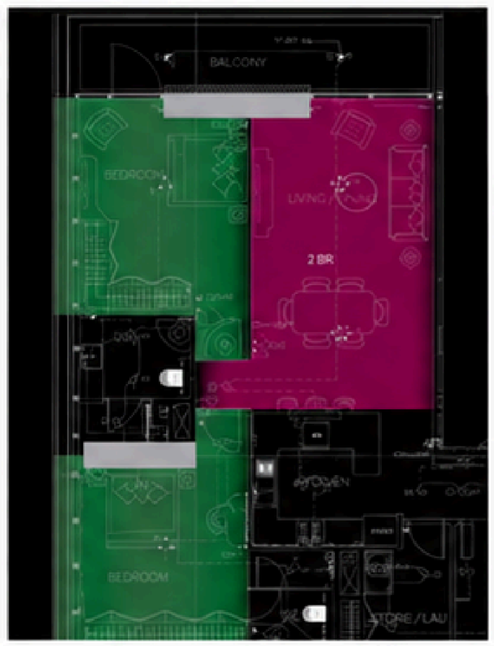


TYPICAL 2BR / TYPE A

LIVING ROOM ZONING



TYPICAL 1BR / TYPE A



TYPICAL 2BR / TYPE A

SPATIAL ZONING

SPATIAL COORDINATION

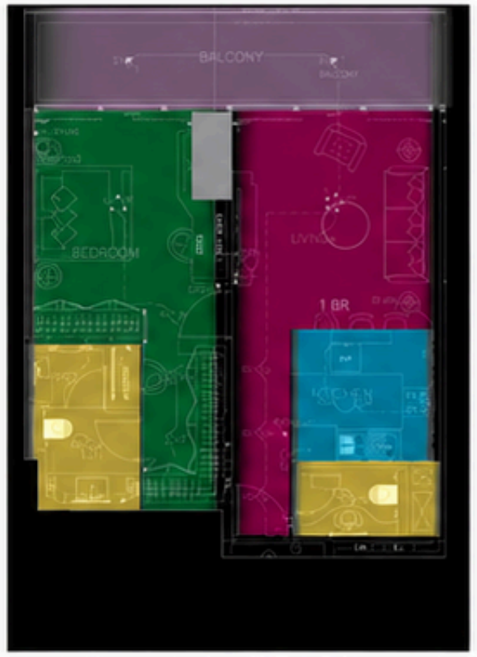
Functional zones were examined across the two apartment typologies to understand how residential activities relate to the distribution of lighting.

The original zoning overlays establish the spatial basis for subsequent lighting layouts. This stage documents functional classification, rather than measured lighting performance.

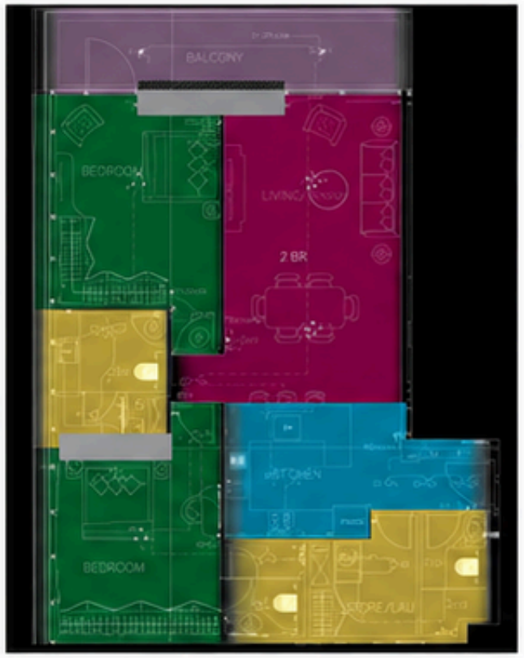
ZONING LEGEND

- Bedroom
- Living / Dining
- Kitchen
- Bathroom
- Balcony

BALCONY + OVERALL ZONING

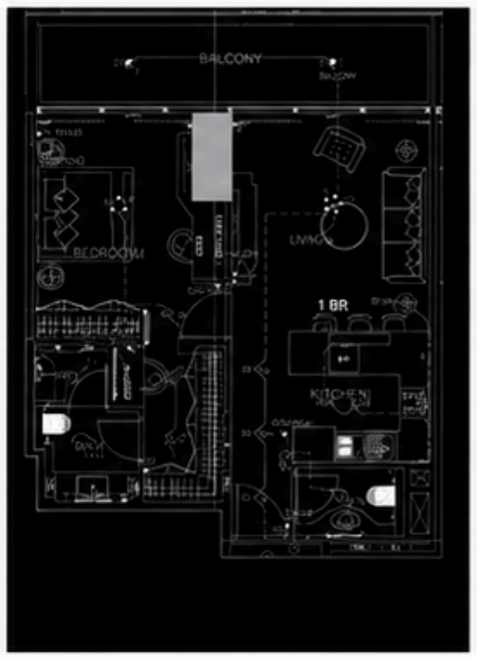


1BR / TYPE A

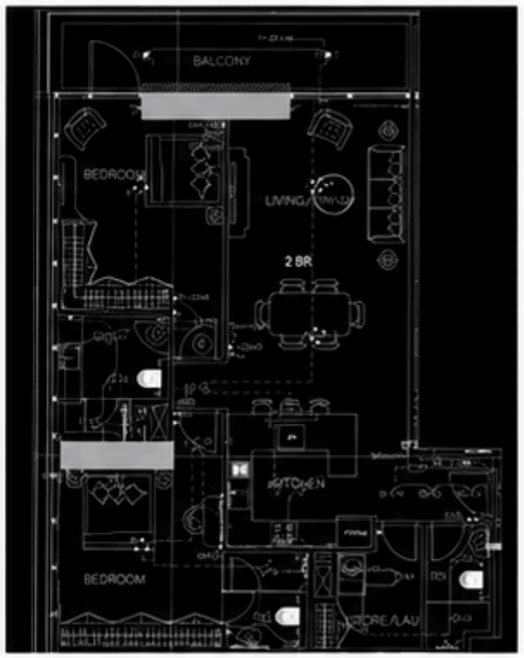


2BR / TYPE A

BASE PLAN REFERENCE



1BR / BASE PLAN



2BR / BASE PLAN

SPATIAL ZONING

FUNCTIONAL REQUIREMENTS

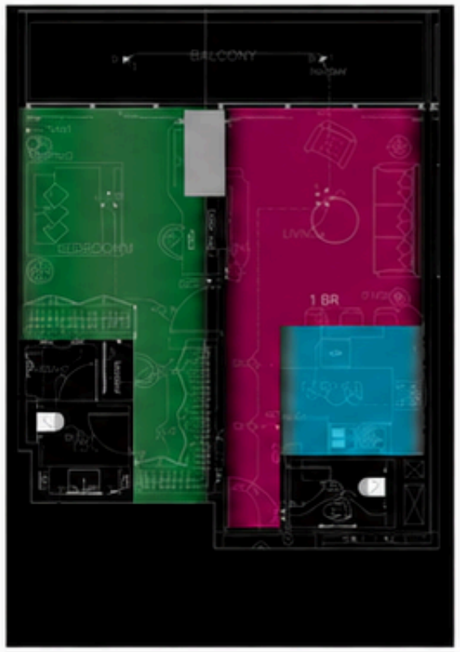
The zoning study extends to kitchens, bathrooms and balconies, which present different visual tasks and environmental conditions.

Kitchen lighting calls for attention to task visibility; bathroom locations require consideration of moisture exposure and localized illumination; balconies introduce outdoor exposure considerations. These distinctions inform luminaire selection without constituting a separate standards-compliance assessment.

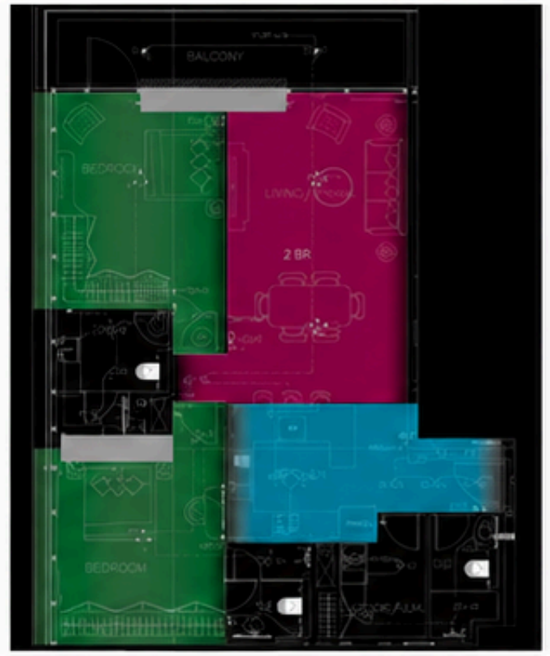
ZONING LEGEND

- Bedroom
- Living / Dining
- Kitchen
- Bathroom
- Balcony

KITCHEN ZONING

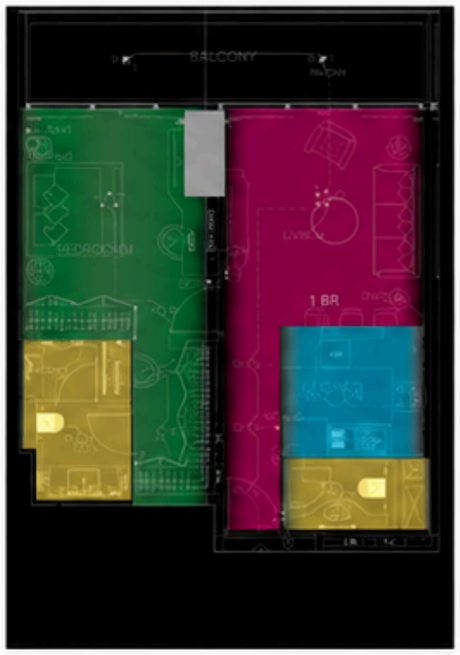


1BR / TYPE A

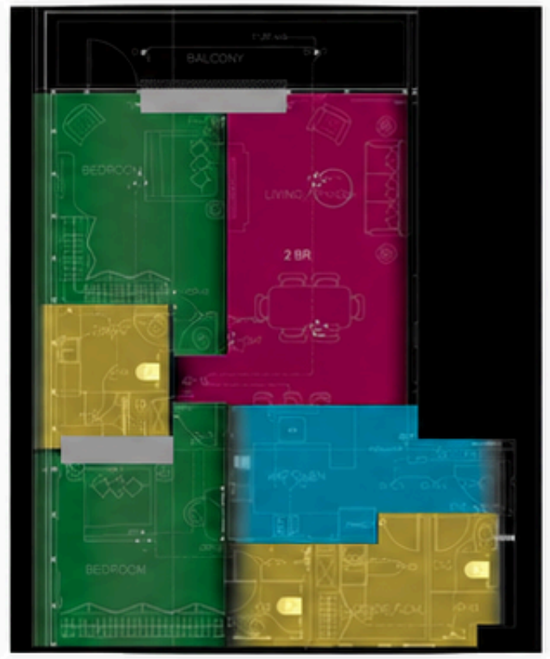


2BR / TYPE A

BATHROOM + BALCONY ZONING



1BR / TYPE A



2BR / TYPE A

LUX CALCULATION

QUANTITATIVE ASSESSMENT

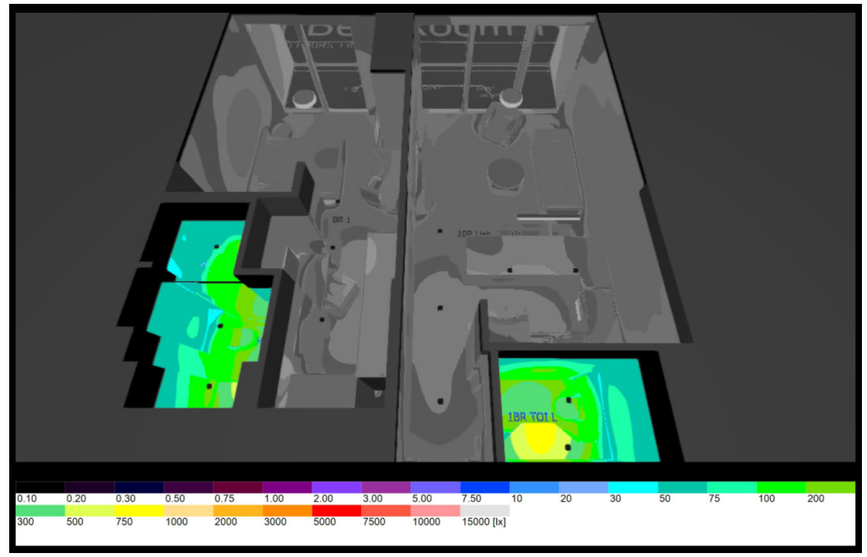
Photometric simulations were used to examine the predicted illuminance associated with the proposed residential lighting arrangements.

The documented average values include 182 lx in the bedroom, 190 lx in the living room and 386 lx in the kitchen. They provide a quantitative point of comparison between spaces with different functions, but do not in isolation demonstrate standards compliance or visual comfort.

LIGHTING SIMULATION

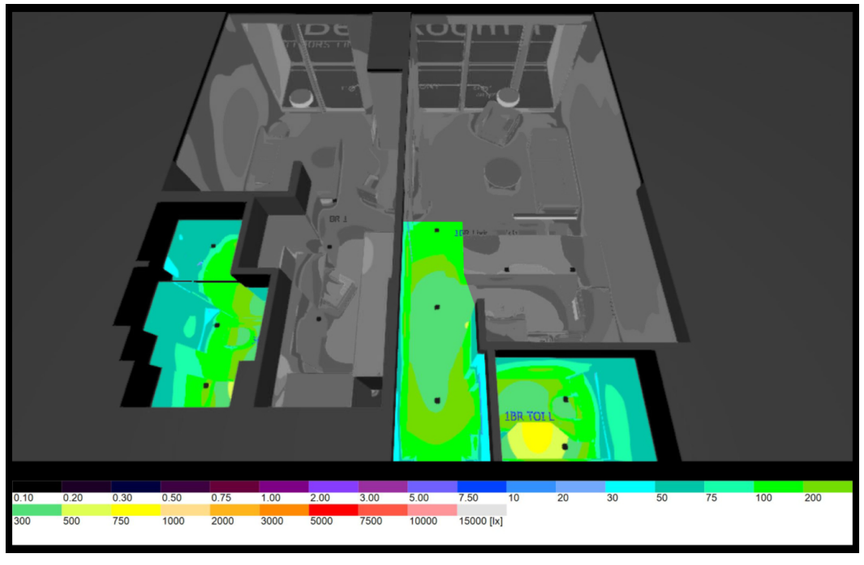


OVERALL MODEL

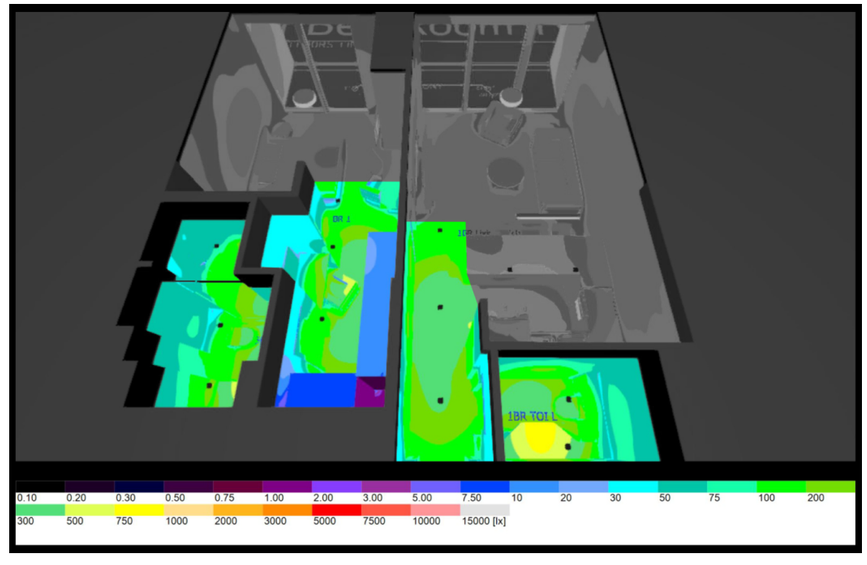


BATHROOM / TOILET / 416 lx / 326 lx

ILLUMINANCE RESULTS



ENTRANCE / 326 lx



DRESSING / 292 lx

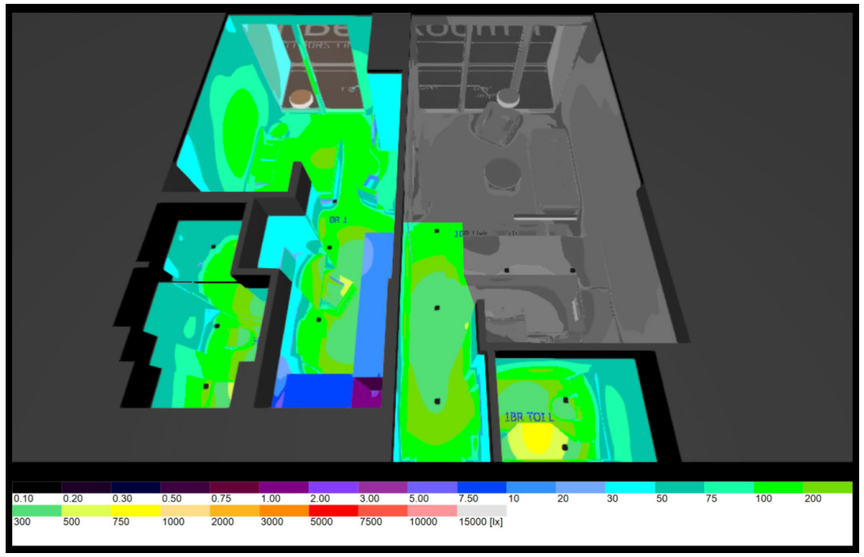
LUX CALCULATION

RESULTS & INTERPRETATION

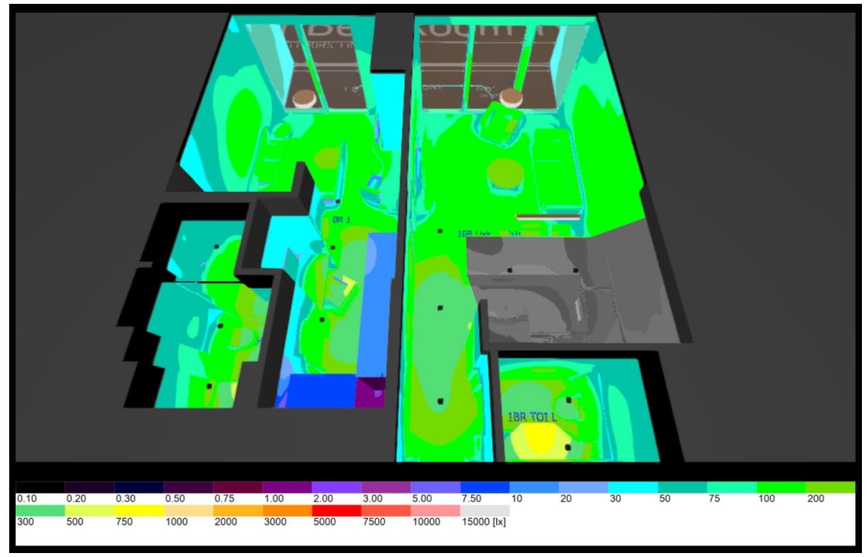
The recorded average illuminance varies across the entrance, dressing, kitchen and balcony areas, reflecting the modelled distribution of light.

The study documents approximately 326 lx at the entrance, 292 lx in the dressing area, 386 lx in the kitchen and 77 lx on the balcony. Evaluation of uniformity, glare, task surfaces and luminaire photometry would be needed for a more complete lighting-quality assessment.

ILLUMINANCE DISTRIBUTION

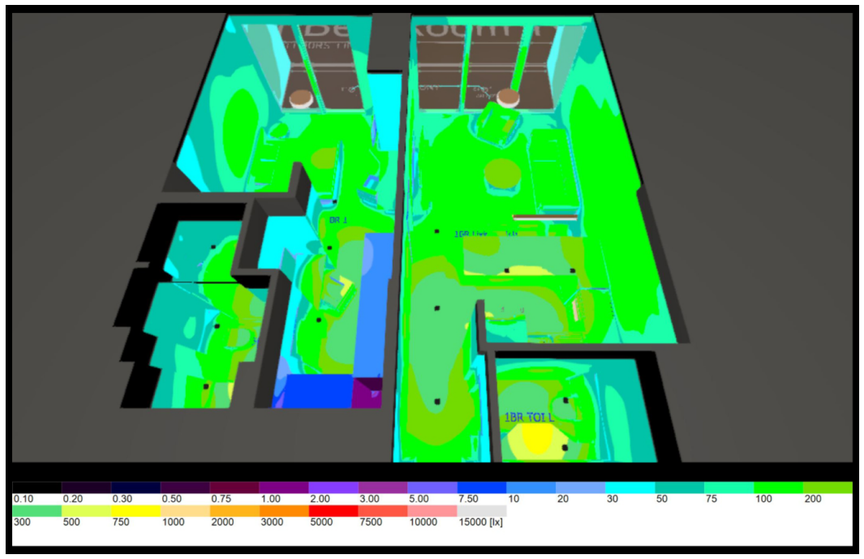


BEDROOM / 182 lx

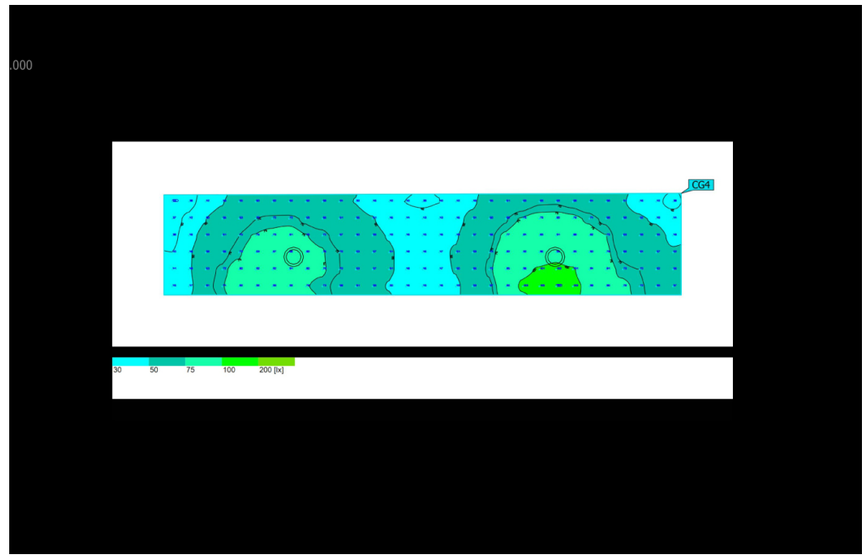


LIVING ROOM / 190 lx

COMPARATIVE RESULTS



KITCHEN / 386 lx



BALCONY / 77 lx

SOBHA — WAVES OPULENCE

Location:	Sobha Hartland 1, Dubai, UAE
Project Type:	Luxury Residential Development
Focus:	Sustainability / LEED Coordination
Role:	Lighting Review & Coordination
Scope:	LPD · Lighting Controls · Energy Performance

SOBHA —WAVES OPULENCE

Sobha Hartland 1, Dubai, UAE | 2025



SELECTED LIGHTING FIXTURES



LB
BOLLARD

LC
COLUMN DOWNLIGHT

LD
DRIVE-OVER

LW
STEP LIGHT

LI
IN-GROUND

LP
POLE LIGHT

LIGHTING SCHEDULE (GROUND FLOOR)

SYMBOL	TYPE / FIXTURE	DESCRIPTION	QTY.
●	LB	Bollard	42
■	LC	Column Downlight	10
●	LD	Drive-Over	8
■	LW	Step Light	7
▲	LI	In-Ground	5
◆	LP	Pole Light	2

PROJECT OVERVIEW

Sobha Waves Opulence is a residential development in Dubai integrating sustainable design principles with energy-efficient lighting strategies. My involvement focused on lighting systems review, technical coordination, and supporting LEED-related requirements, with particular attention to energy performance, responsible outdoor illumination, and reducing light pollution.

Sustainability Concept

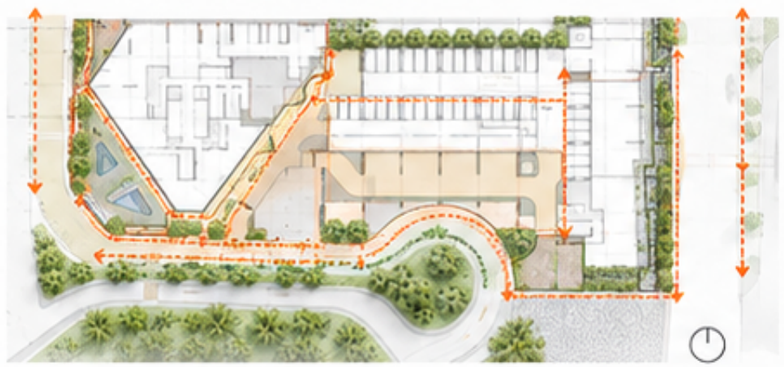
A landscape-led strategy that enhances environmental comfort, reduces heat, and creates a resilient, people-centric open space for a cooler, healthier and more vibrant community.



1. Green Network & Open Space

Connected green spaces, tree planting and water features create a cooler microclimate and a high-quality outdoor environment.

- Green space / planting
- Permeable / landscaped area
- Water feature
- Trees



2. Pedestrian Circulation & Microclimate

Shaded walkways and permeable surfaces improve walkability and thermal comfort across the site.

- Primary pedestrian route
- Secondary route
- Shaded / covered walkway
- Tree planting
- Cooling feature / water



3. Environmental Intensity & Shading

Building massing, tree canopy and shaded walkways reduce direct heat exposure and create comfortable outdoor spaces throughout the day.

- High exposure (Direct sun, higher heat load)
- Moderate exposure (Partial shade)
- Low exposure (Shaded by buildings and trees)

Arrival & Entrance Plaza

Shaded planting, water feature and seating create a welcoming and comfortable arrival experience.



Courtyard & Pool Landscape

A cool and comfortable outdoor amenity space with planting, shade and multi-functional areas.



Perimeter Green Buffer

A tree-lined edge provides shade, improves microclimate and connects the site to the city.



Site Section – Landscape Sequence



SOBHA — WAVES OPULENCE

Sobha Hartland 1, Dubai, UAE | 2025

ENVIRONMENTAL LIGHTING REVIEW

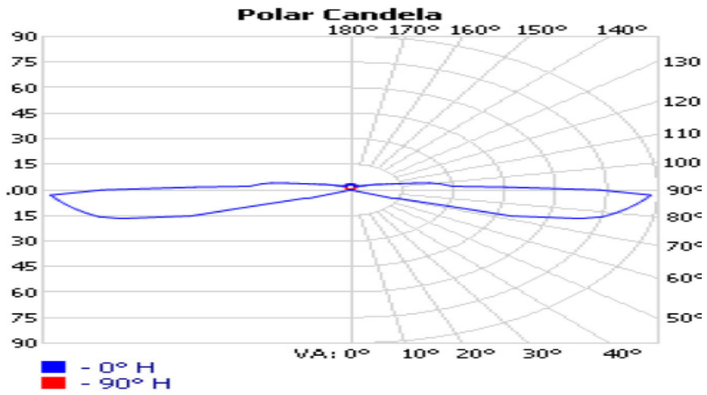
Light Pollution & Sustainability

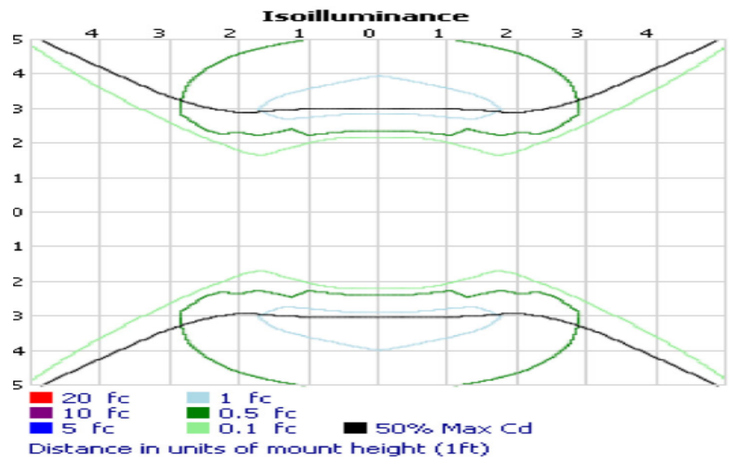
01 HYDROFLOOR MICRO 02 LED

PUK Italia | 3 W | Outdoor photometric report

PHOTOMETRIC DISTRIBUTION ANALYSIS

Polar candela and isoluminance diagrams describe beam distribution and potential light spill in outdoor applications.



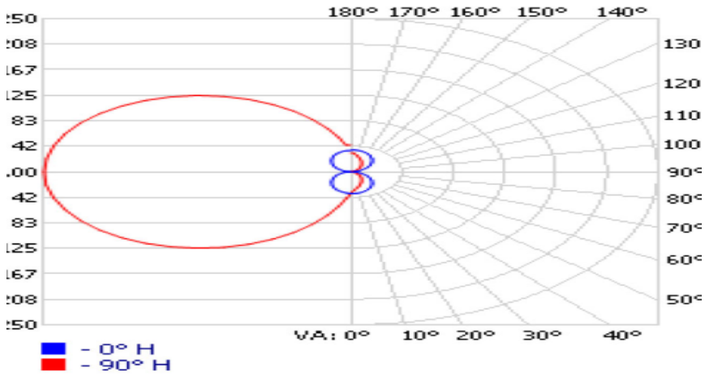


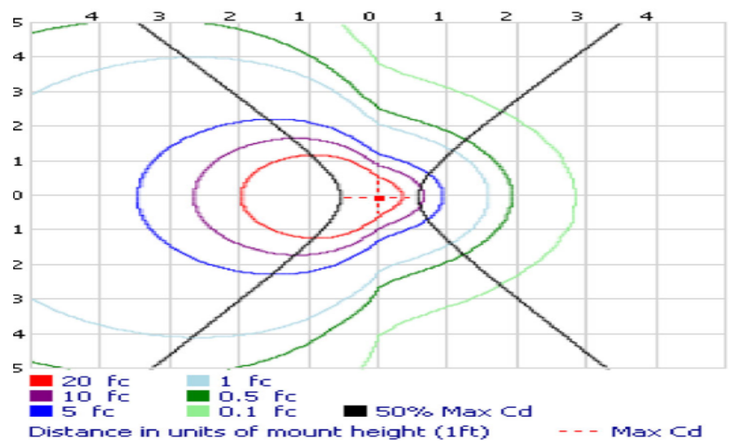
02 HYDROFLEX SIDE 1000 LED

PUK Italia | 13 W | Outdoor photometric report

SUSTAINABILITY & ENVIRONMENTAL PERFORMANCE

Fixture distribution data supports the review of controlled illumination and energy-conscious outdoor lighting strategies.





PHOTOMETRIC REVIEW

Manufacturer diagrams provide luminaire-level information; they do not establish site-wide LEED compliance.


04
WINTER PARK
Nad Al Sheba, Dubai, UAE | 2026
LANDSCAPE AND OUTDOOR LIGHTING DESGN

LIGHTING DESIGN DEVELOPMENT

Nad Al Sheba, Dubai, UAE | 2026

LANDSCAPE LIGHTING PLAN

Lighting layout, spatial organization and key areas



LEGEND LIGHTING FIXTURES)	
SYMBOL	DESCRIPTION
	Linear light (building edge / step)
	Spot light (trees and planter)
	Bollard light
	Pole light (area lighting)
	Recessed uplight (feature / tree)
	In-ground light
	Wall light
	Table / low light
	Flood light
	Custom light fixture

DESIGN INTENT

01 CENTRAL TENTED MAJLIS

Layered lighting integrates architectural and decorative elements, with accent lighting to define the tent structure and soft ambient lighting for the surrounding plaza.

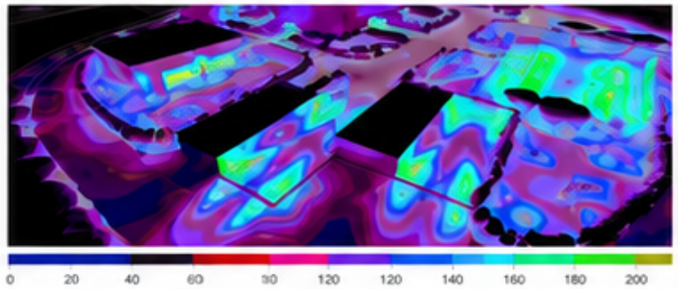
02 DINING & VIEWING AREAS

Localised lighting supports outdoor hospitality, seating and viewing decks, creating comfortable and visually appealing spaces while maintaining a coherent landscape character.

03 PEDESTRIAN & LANDSCAPE

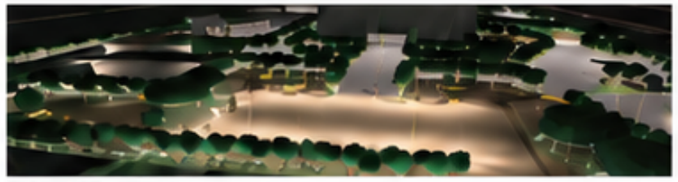
Pole and bollard lighting guide circulation; spike and in-ground lighting highlight trees and planted areas, enhancing landscape features and defining edges.

DIALux LIGHTING STUDY



DIALux false-color illuminance study

Overall site view showing lighting distribution and horizontal illuminance levels (lux).



DIALux 3D night view

Visual representation of lighting design and landscape setting.

FROM DESIGN DRAWING TO SIMULATION

01 LIGHTING

Luminaire selection, positioning and photometry (Bristol Lighting Solutions)

02 MODEL

DIALux site model and calculation surfaces

03 SIMULATION

Illuminance mapping and lighting analysis

04 REVIEW

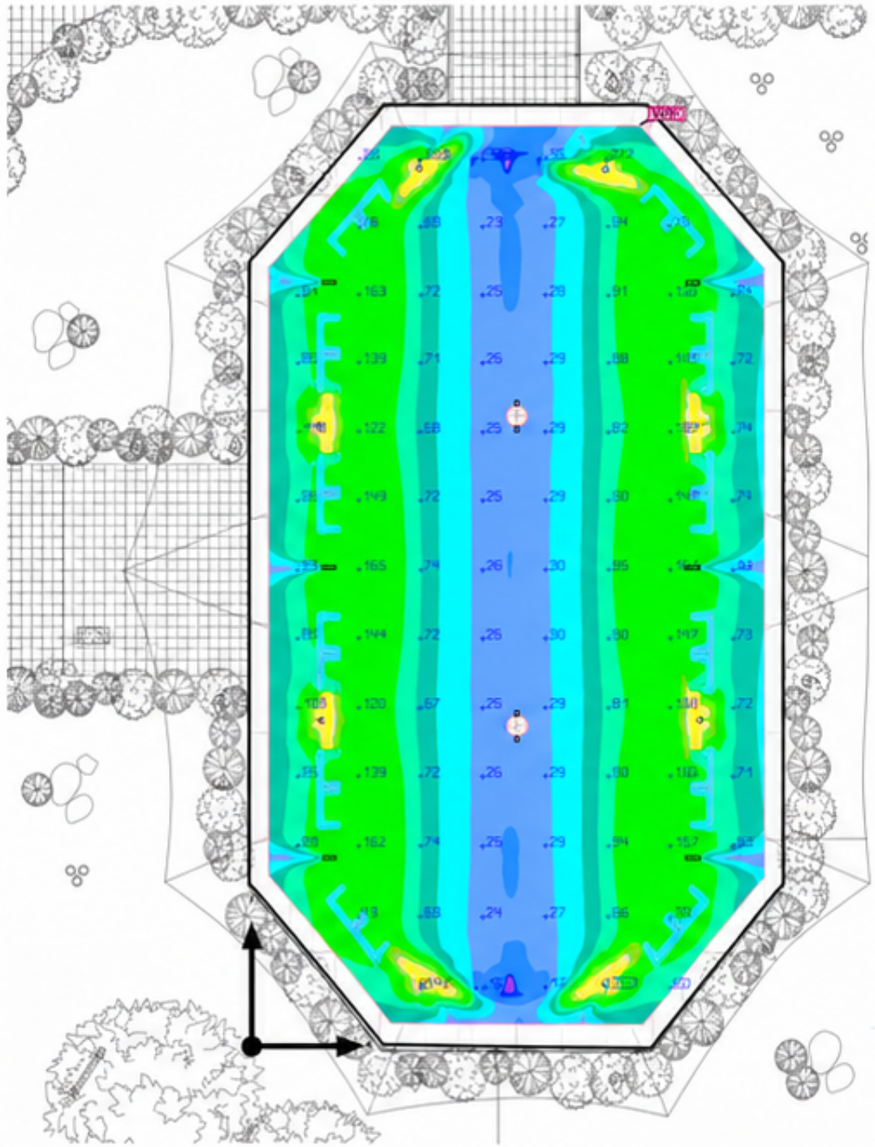
Illuminance mapping and visual evaluation

OPEN TENT MAJLIS

LIGHTING PERFORMANCE CASE STUDY

Nad Al Sheba, Dubai, UAE | 2026

An open tent majlis at the heart of Winter Park, integrating landscape, public gathering spaces and warm nighttime lighting. The lighting design provides a comfortable and welcoming atmosphere while maintaining visual balance, uniformity and minimal glare for a refined hospitality experience.



02 / PHOTOMETRIC RESULTS

MODELED AREA	383.16 m2
AVERAGE ILLUMINANCE	93.7 lx
MINIMUM / MAXIMUM	4.33 / 1,375 lx
UNIFORMITY (Uo)	0.046
TOTAL CONNECTED LOAD	536 W
SPACE LIGHTING POWER DENSITY	1.40 W/m2

03 / INSTALLED LIGHTING IN SIMULATION

Decorative pole light	6 x 80 W	360 W
Decorative wall light	4 x 20 W	80 W
Floor light	8 x 12 W	96 W
TOTAL / 18 LUMINAIRES		**536 W**

04 / DESIGN EVALUATION

The simulation indicates strong variation between the brightest and darkest points. The low uniformity warrants zone-specific review against the intended hospitality use. These are modeled results, not as-built measurements or a verified compliance claim.



EXTRACT OF OVERALL LANDSCAPE PLAN



Exterior view of the open tent majlis at night



Interior view of the open tent majlis

01 / ORIGINAL DIALux CALCULATION MAP

Open Tent Majlis | working plane at 0.80 m | report p. 68-69

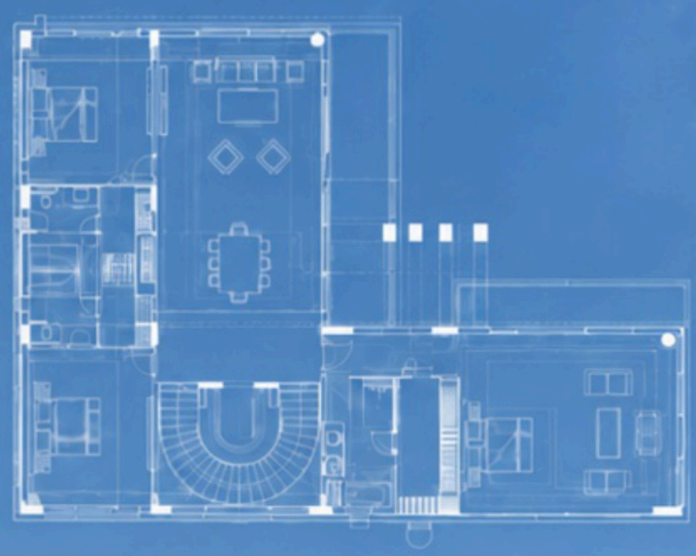
ABDOUN VILLA

Location: Amman, Jordan
Role: Architectural Design & Visualization

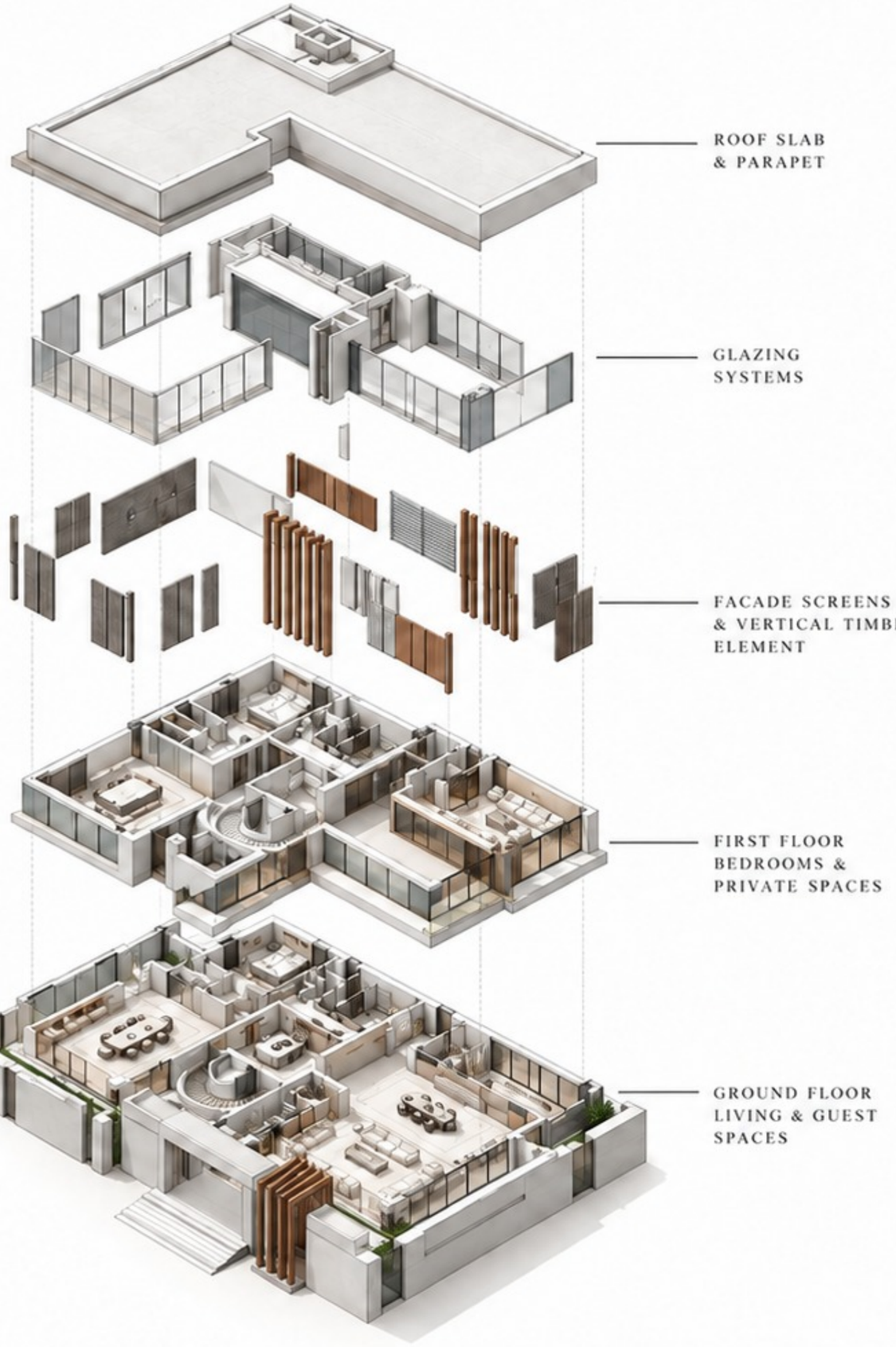




GROUND FLOOR



FIRST FLOOR





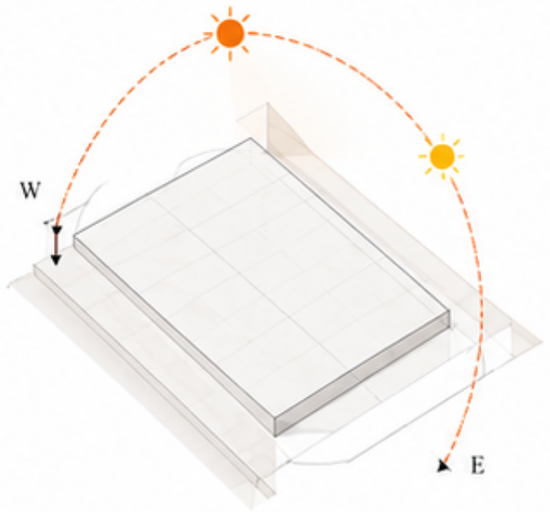
GROUND FLOOR PLAN

OVERVIEW

A contemporary private villa in Abdoun, Amman, Jordan, organized through a clear separation between formal reception and family living. The ground floor brings together the majlis, dining, kitchen, guest accommodation, and service spaces around a central stair-and-lift core, while the upper level provides private bedrooms and family siting areas. Deep horizontal slabs, recessed glazing, and vertical timber screens balance privacy, daylight, and architectural expression.

DESIGN PHILOSOPHY

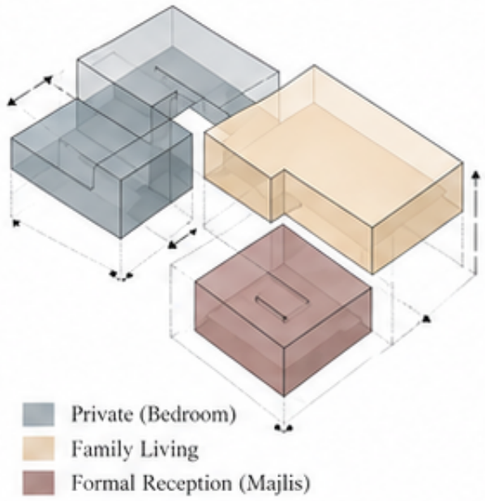
A clear spatial hierarchy separates formal reception areas from private family living, creating a strong connection to the outdoors. The architecture combines clean horizontal lines, natural stone, and vertical timber elements, resulting in a contemporary yet timeless expression of privacy, openness, and a comfortable modern lifestyle.



01

SITE & ORIENTATION

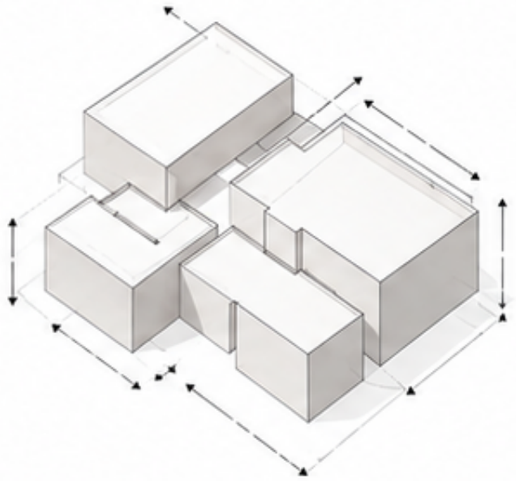
The building is oriented to maximize daylight, privacy and views, while minimizing direct solar exposure on critical facades.



02

SPATIAL ZONING

A clear separation between formal guest areas and family living zones creates privacy and functional clarity.



03

MASSING DEVELOPMENT

Layered horizontal volumes with recessed glazing and vertical timber elements create a balanced and dynamic architectural composition.



04

FINAL MASSING

The final composition integrates stone, glass and timber, resulting in a refined and contemporary architectural expression.



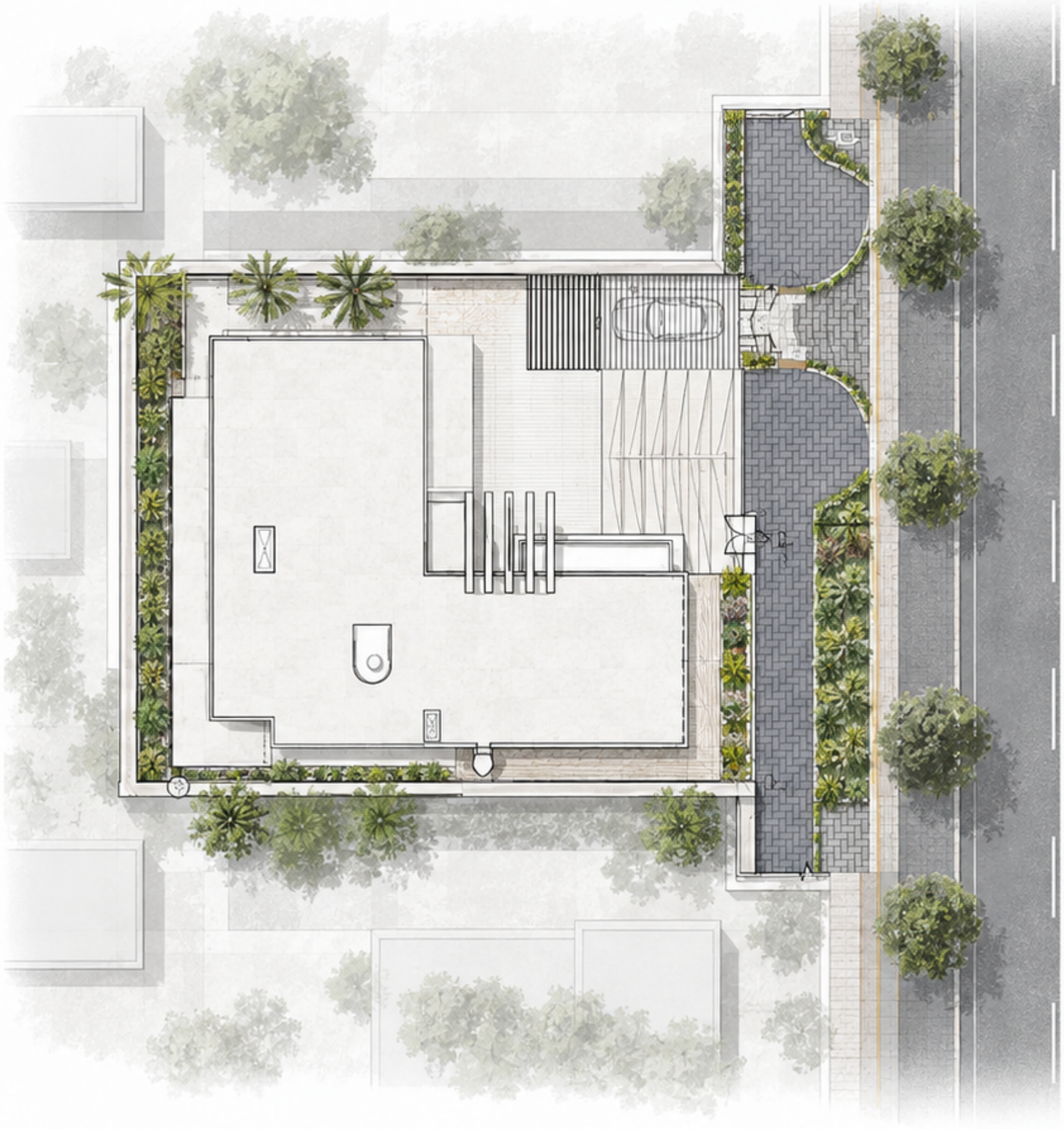
FRONT ELEVATION



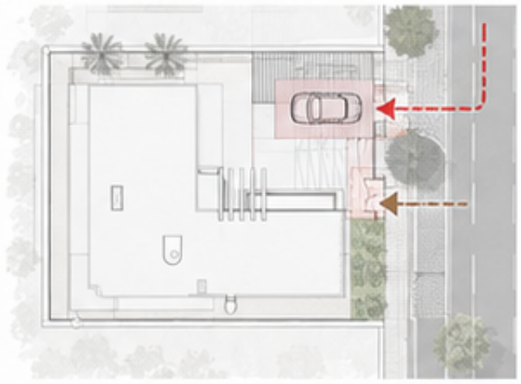
RIGHT SIDE ELEVATION

SITE PLANNING

Access, frontage, and landscape interface.

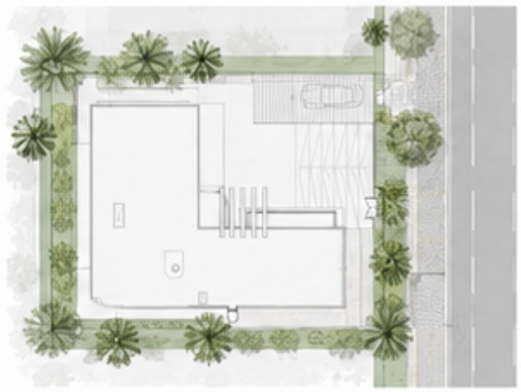


The site planning maximizes privacy and daylight while creating a clear and refined interface with the street. The main vehicle access is positioned from the east, with a defined entry sequence and landscaped edges that soften the frontage. Perimeter planting and setbacks provide a green buffer, enhance privacy, and create a calm and welcoming arrival experience.



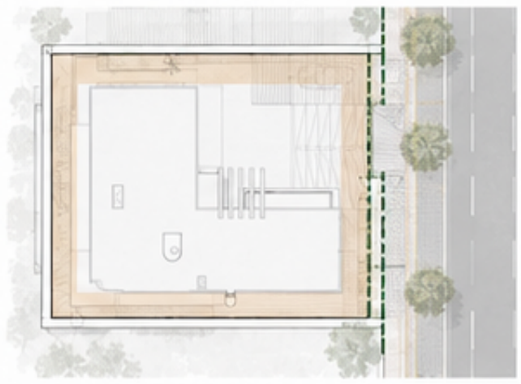
01
ARRIVAL SEQUENCE

- Vehicle Access
- Pedestrian Entry
- Parking / Drop-off
- Main Entry



02
LANDSCAPE BUFFER

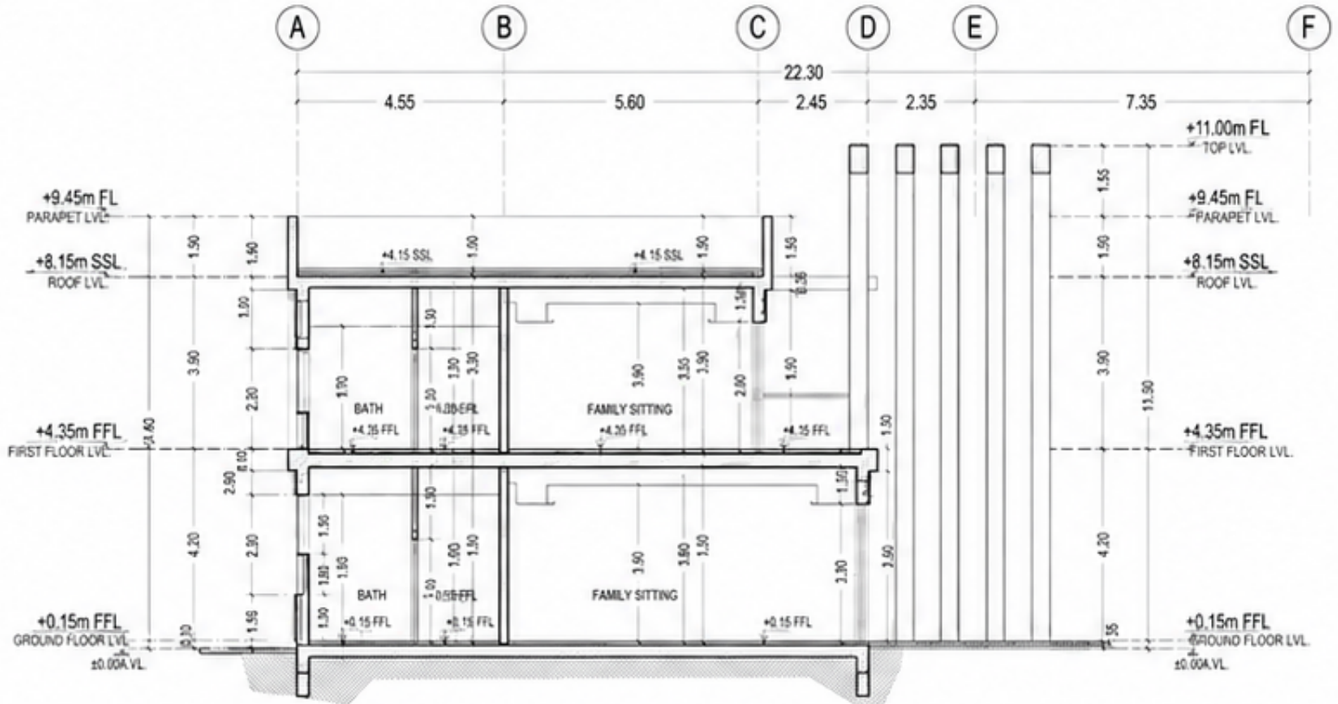
- Perimeter Planting
- Trees & Green Buffer



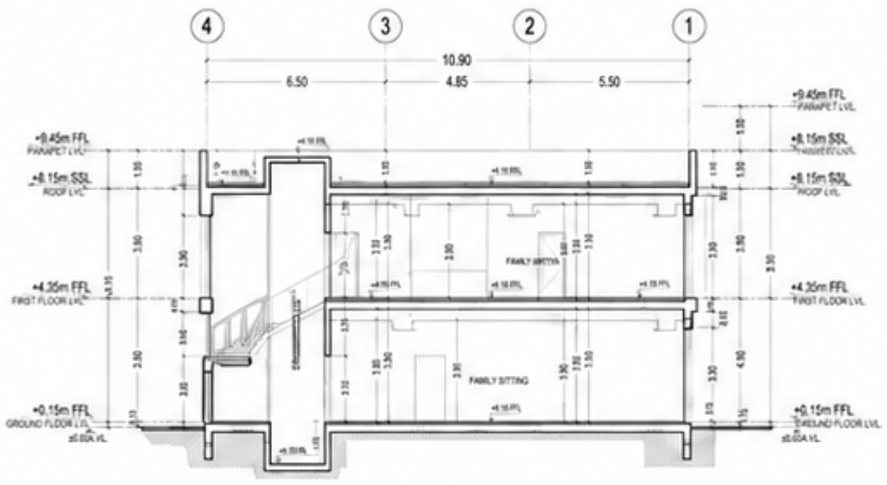
03
FRONTAGE & SETBACK

- Building Setback
- Street Frontage

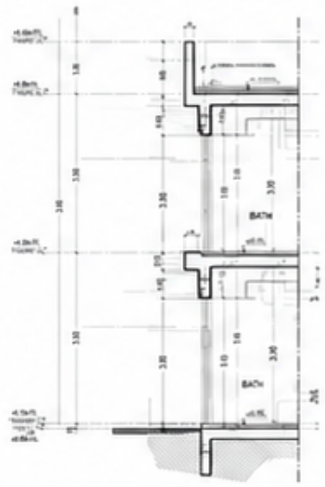
01 SECTION A-A



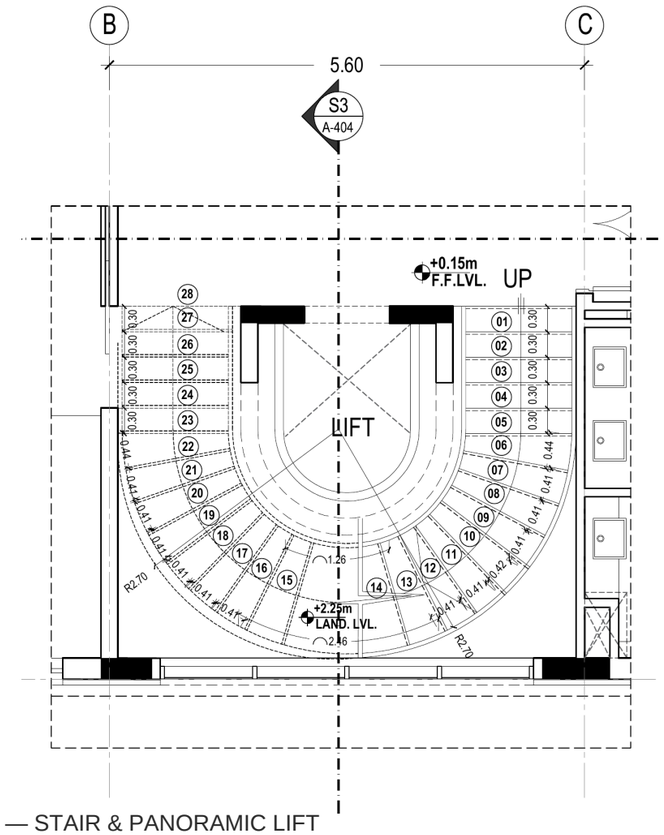
02 SECTION B-B



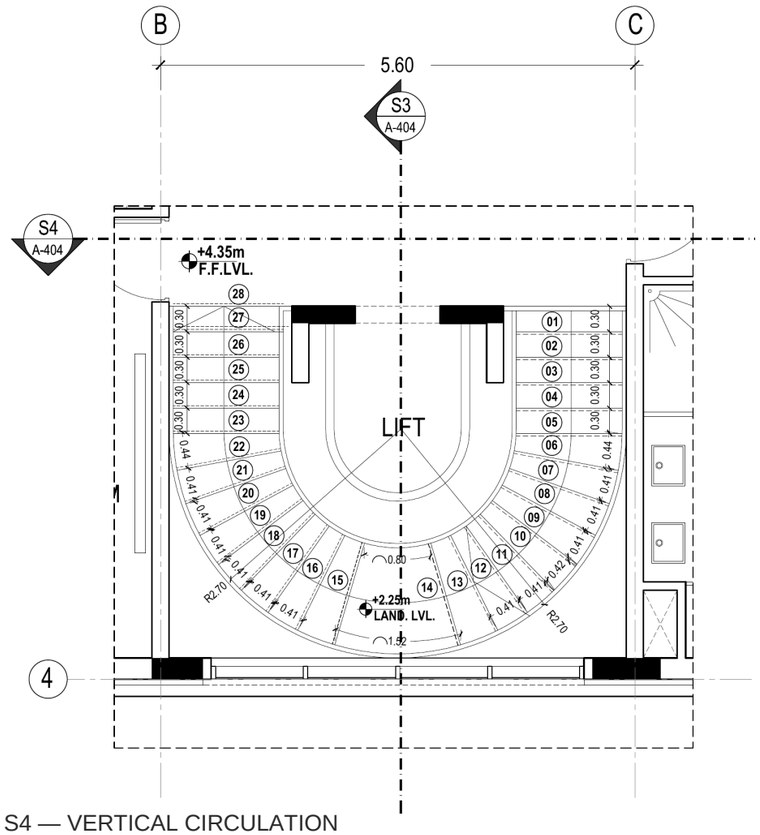
WALL SECTION



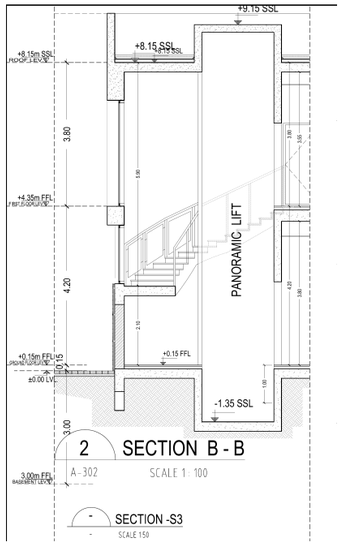
01 STAIRCASE PLAN — GROUND FLOOR



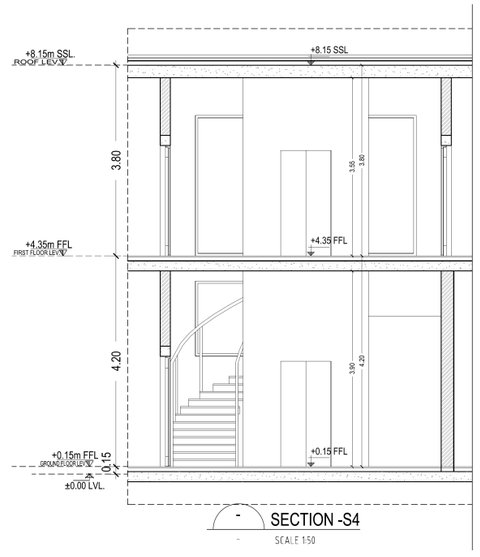
02 STAIRCASE PLAN — FIRST FLOOR

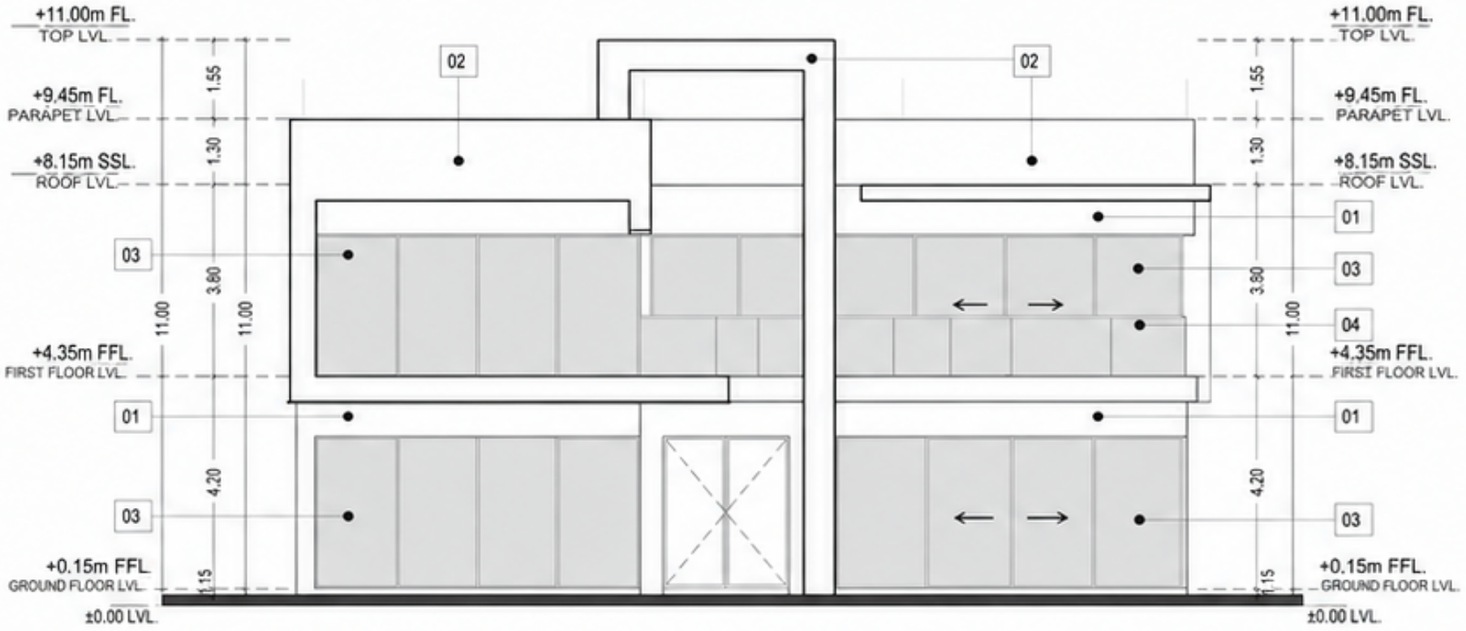


03 SECTION S3 — STAIR & PANORAMIC LIFT

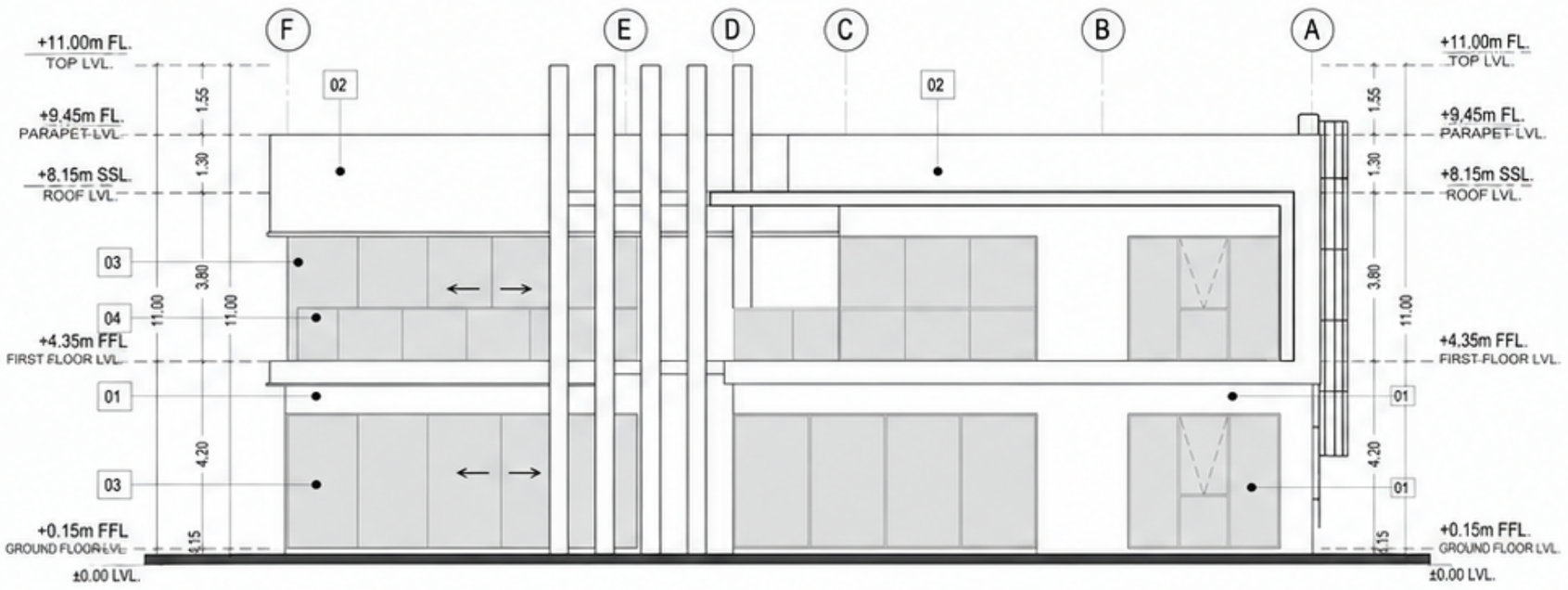


04 SECTION S4 — VERTICAL CIRCULATION

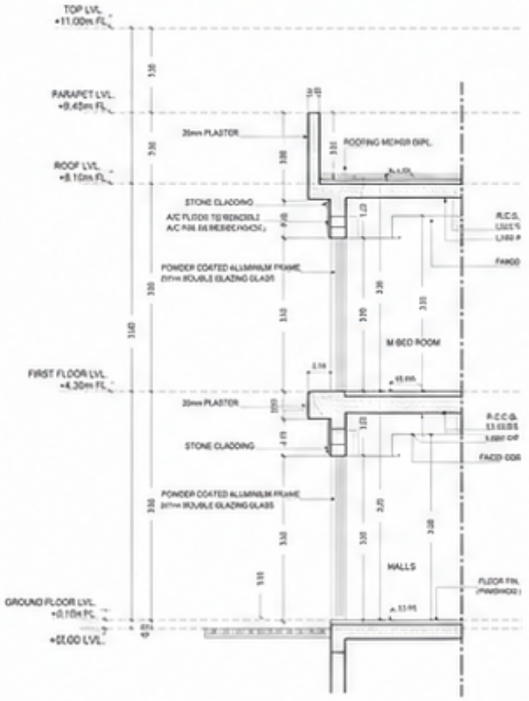




FRONT ELEVATION



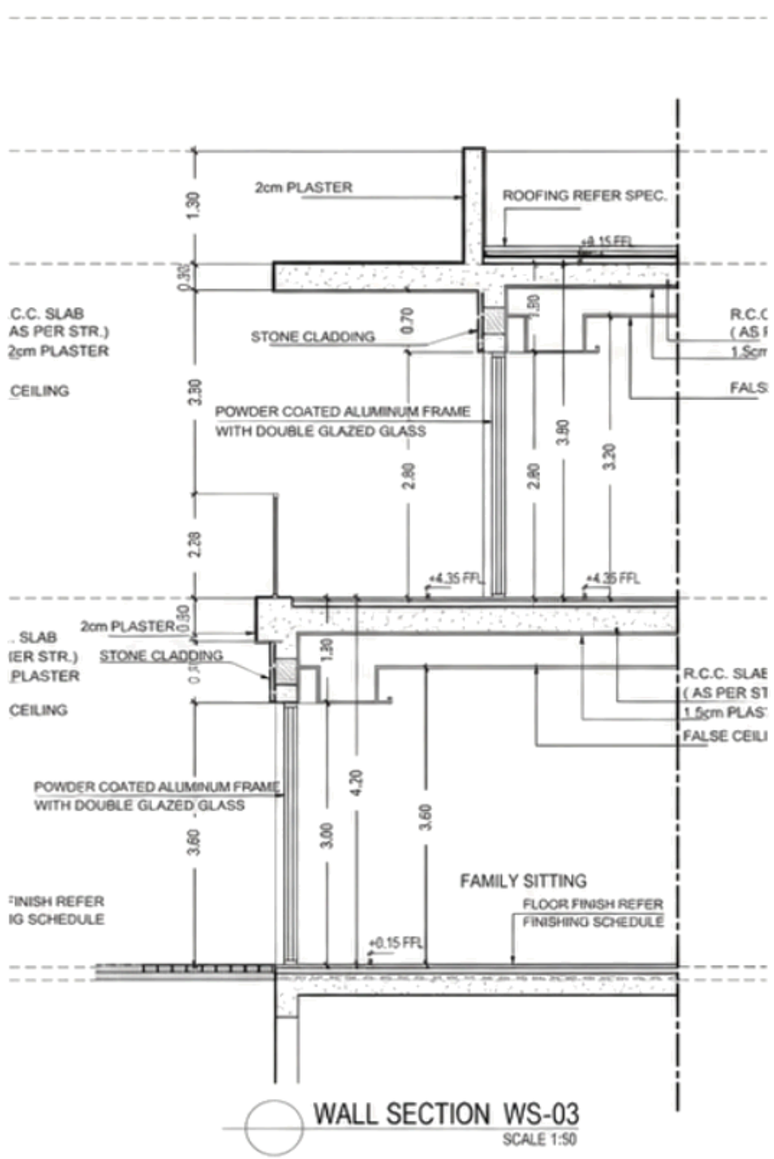
RIGHT SIDE ELEVATION



WALL SECTION

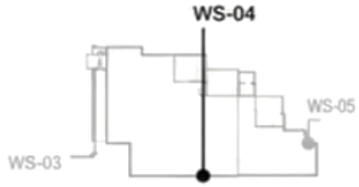
01 WALL SECTION WS-03

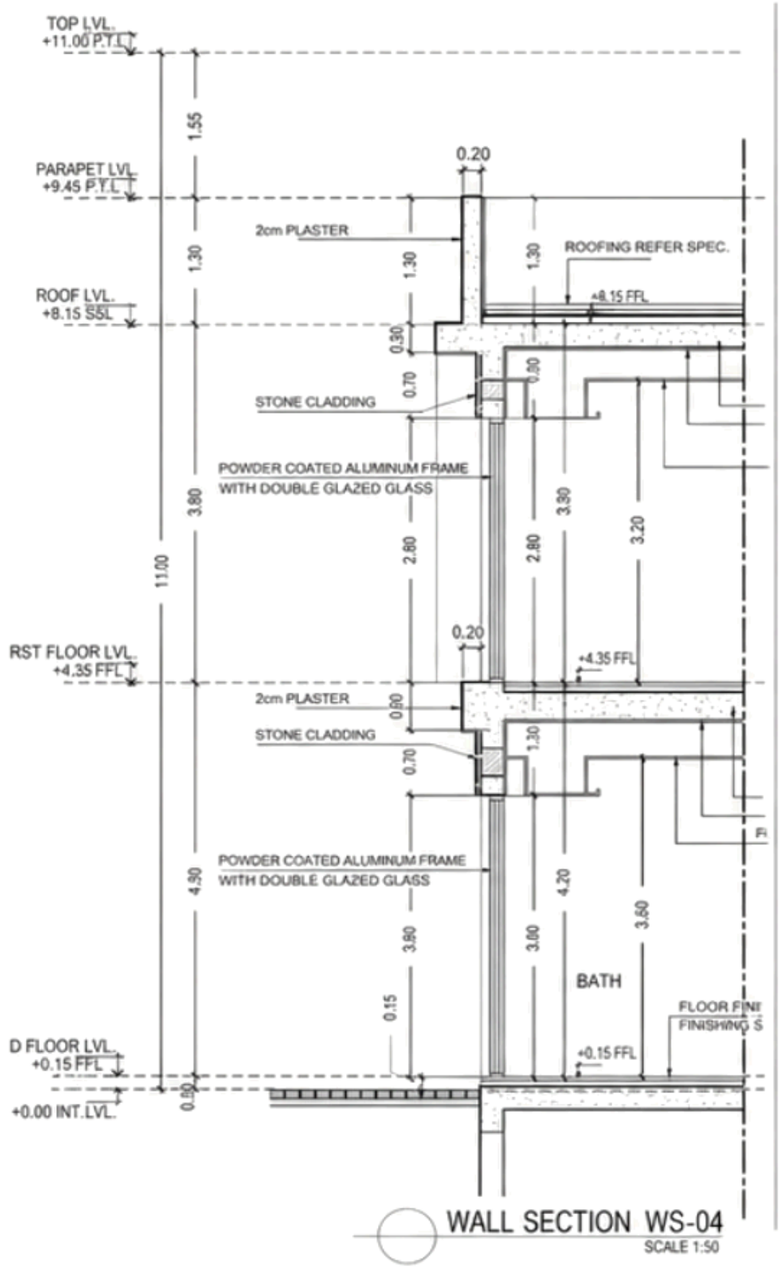




WALL SECTION WS-03
SCALE 1:50

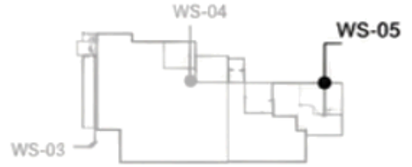
02 WALL SECTION WS-04

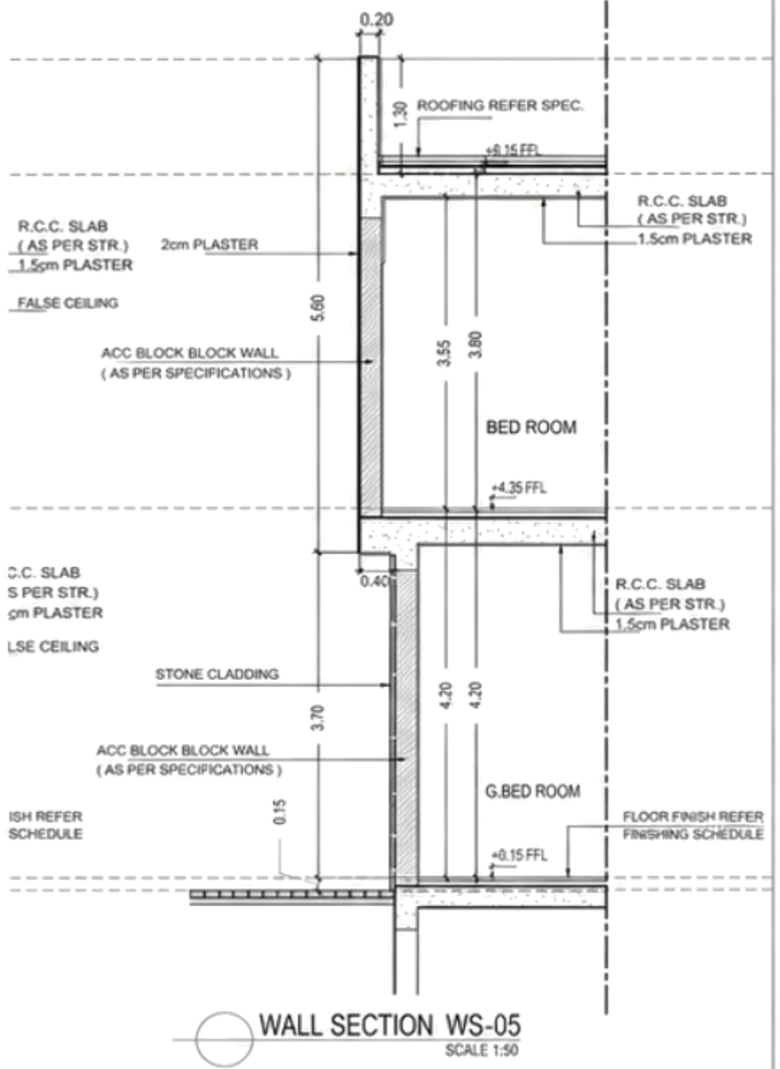




WALL SECTION WS-04
SCALE 1:50

03 WALL SECTION WS-05





WALL SECTION WS-05
SCALE 1:50



OVERVIEW

Abdoun Villa is a contemporary residence in Amman, the city where I grew up and a place of personal significance in my architectural journey. Its design balances privacy, family life, and openness through a thoughtful spatial arrangement, a distinctive curved staircase, and a restrained palette of stone, glass, and timber. From architectural planning and facade development to technical detailing, the project reflects my pursuit of spaces that feel both refined and connected to home.





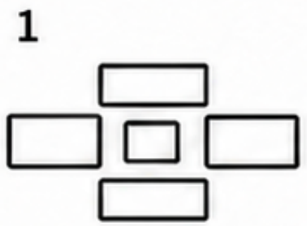
EDUCATION & RESEARCH HOSPITAL

Graduation Project — Architectural Design

Istanbul, Turkey | 2021

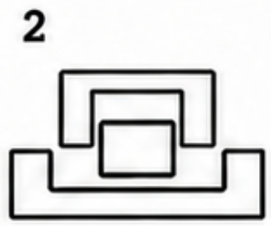


CONCEPT DEVELOPMENT



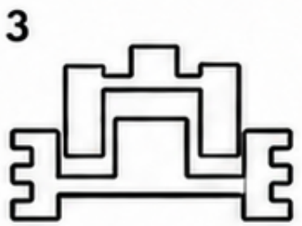
1

INITIAL VOLUMES



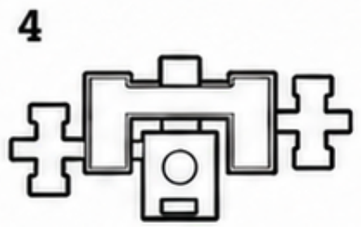
2

CENTRAL OPENING



3

WING DEVELOPMENT



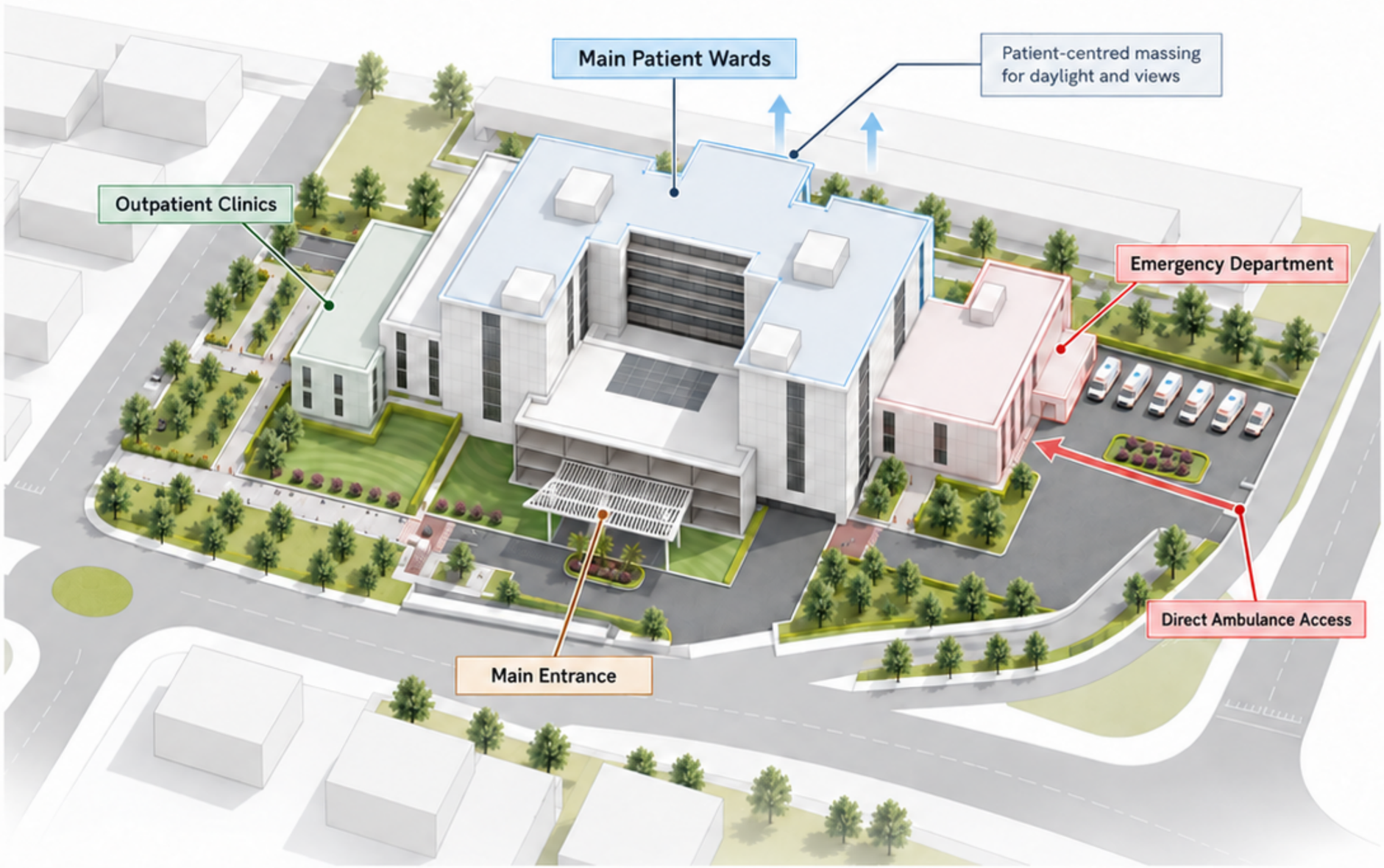
4

INTEGRATED MASSING

DESIGN PRINCIPLE

Functional massing shaped around patient well-being.

Elevated patient wards prioritise daylight and views. Outpatient clinics are separated from emergency access, while the main entrance creates a clear point of arrival.



EXPLODED DIAGRAM

ROOF FLOOR +72.00
- Mechanical / MEP
- Outdoor Space
- Service / Equipment
- Circulation

TYPICAL FLOOR (x3) +60.00 / +64.00 / +68.00
- Patient Rooms
- Clinical Support
- Circulation

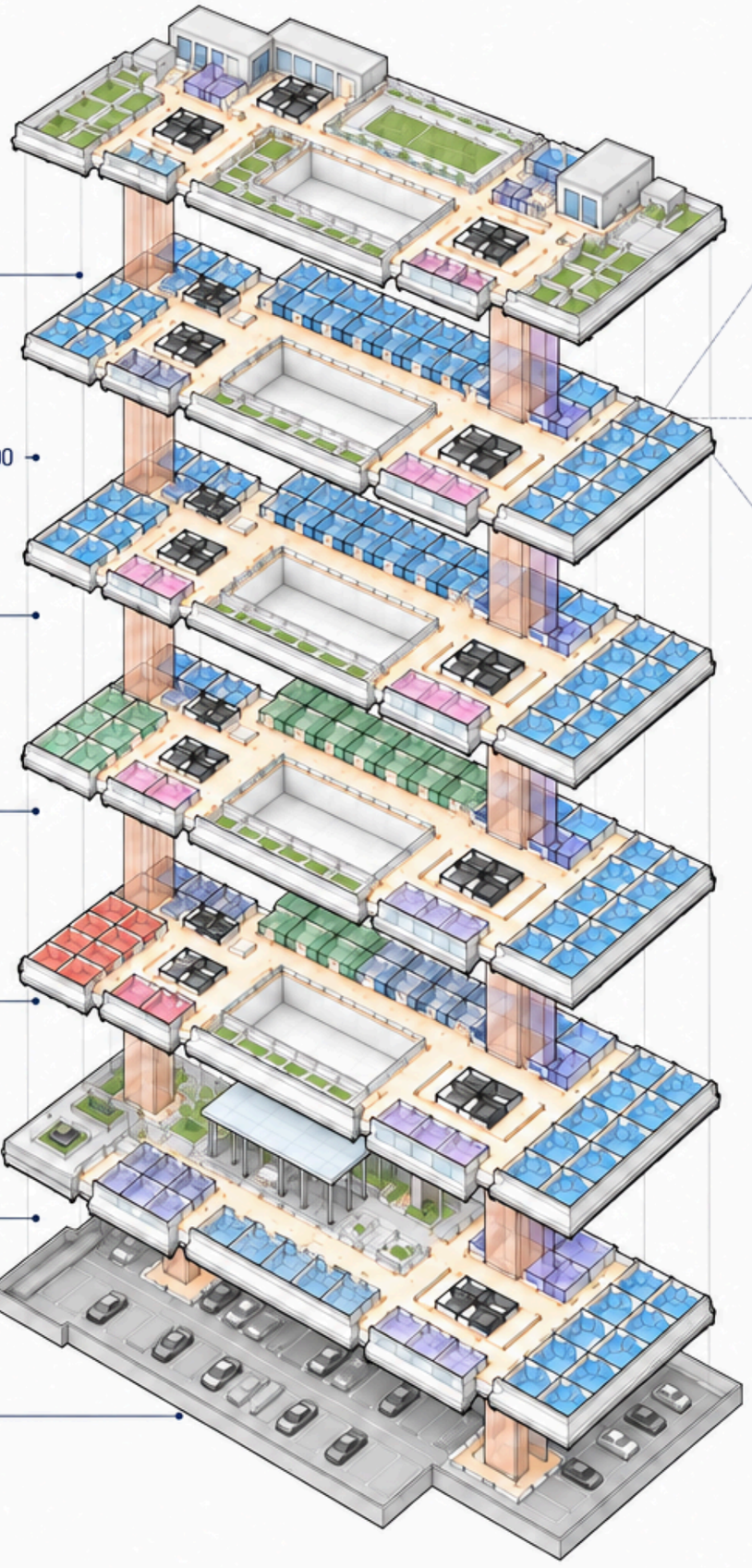
SECOND FLOOR +56.00
- Operating / Procedure
- Inpatient Wards
- NICU / Specialized Care
- Circulation

FIRST FLOOR +52.00
- Outpatient / Clinic
- Diagnostic / Treatment
- Administration
- Circulation

GROUND FLOOR +48.00
- Main Entrance / Public
- Emergency / Obstetrics
- Diagnostic / Imaging
- Cafeteria / Common
- Circulation

CLINICAL BASEMENT +44.00
- Technical / Support
- Sterilization / Central Supply
- Laboratory / Pharmacy
- Storage / Service
- Circulation

PARKING BASEMENT +40.00
- Parking Bays
- Vehicle Circulation
- Service / Technical
- Core / Vertical Circulation



TYPICAL FLOOR (x3)

+60.00 / +64.00 / +68.00



- Patient Rooms (Single / Double)
- Clinical Support (Nurse Station / Treatment)
- Circulation (Corridors / Vertical Core)
- Support / Service

Architecture

By designing the best user movement and linking the departments together.

Nature

By creating a natural indoor environment for the user that helps him heal.

Health

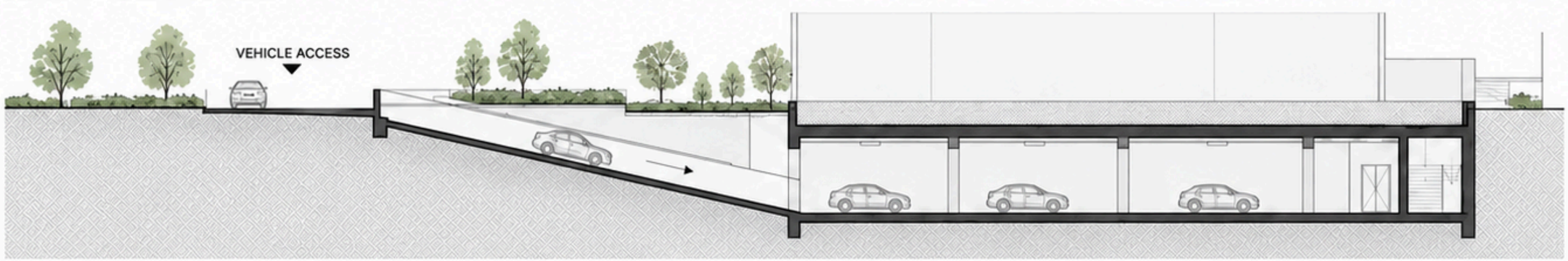
By providing the best treatment to the patient and providing high-quality medical services.

PARKING BASEMENT PLAN

LEVEL +37



RAMP SECTION



CLINICAL BASEMENT PLAN

LEVEL +40



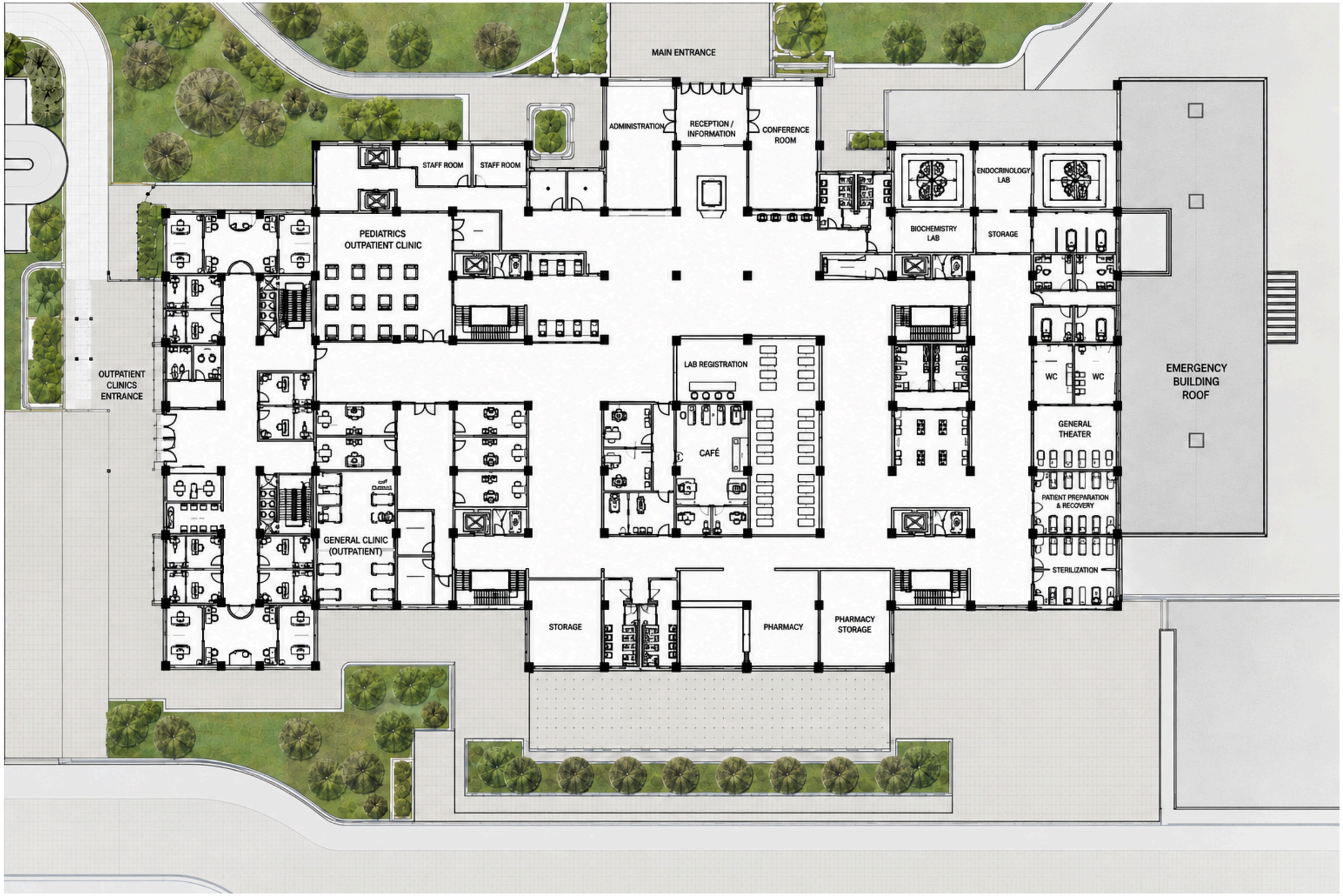
GROUND FLOOR PLAN

LEVEL +44



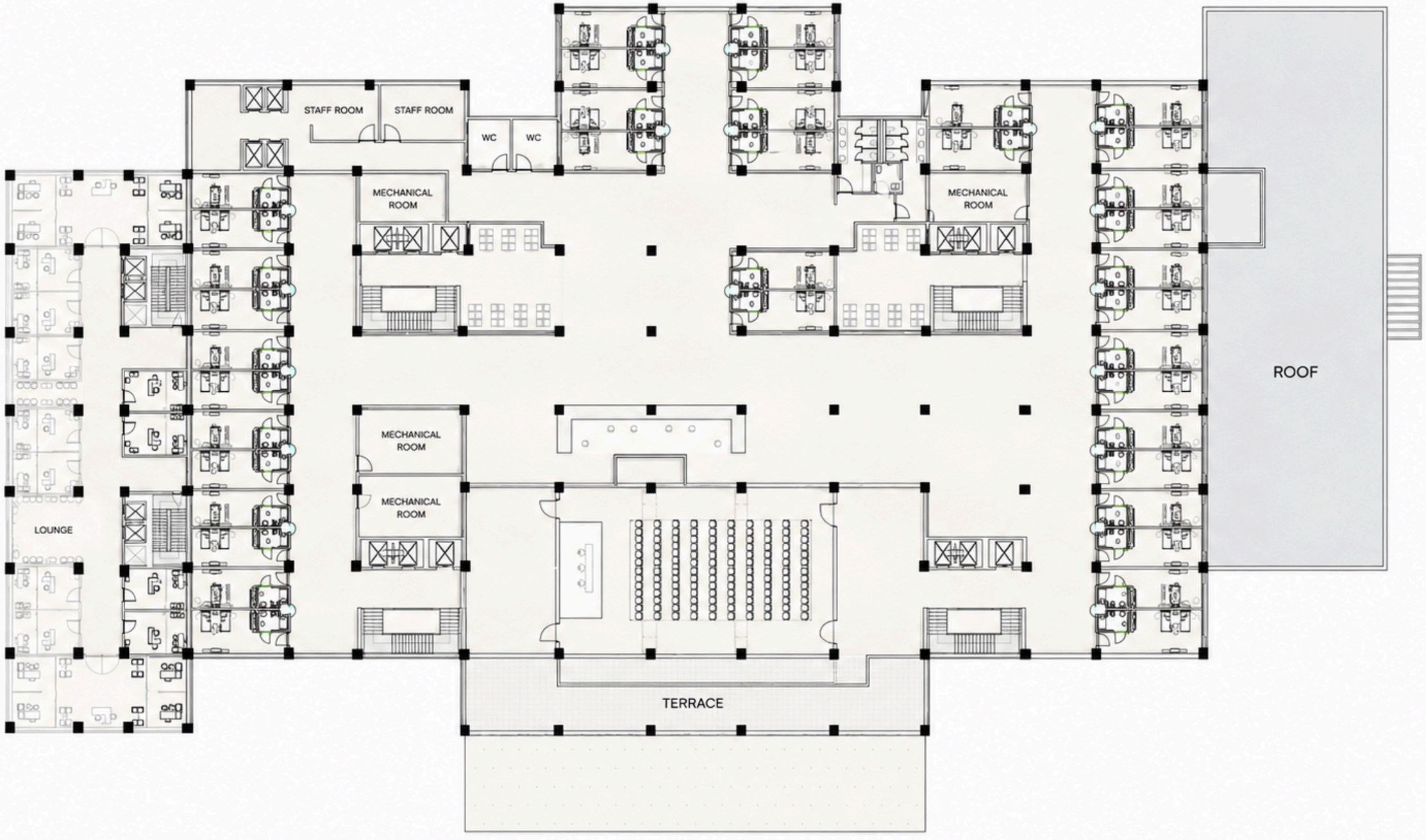
FIRST FLOOR PLAN

LEVEL +48



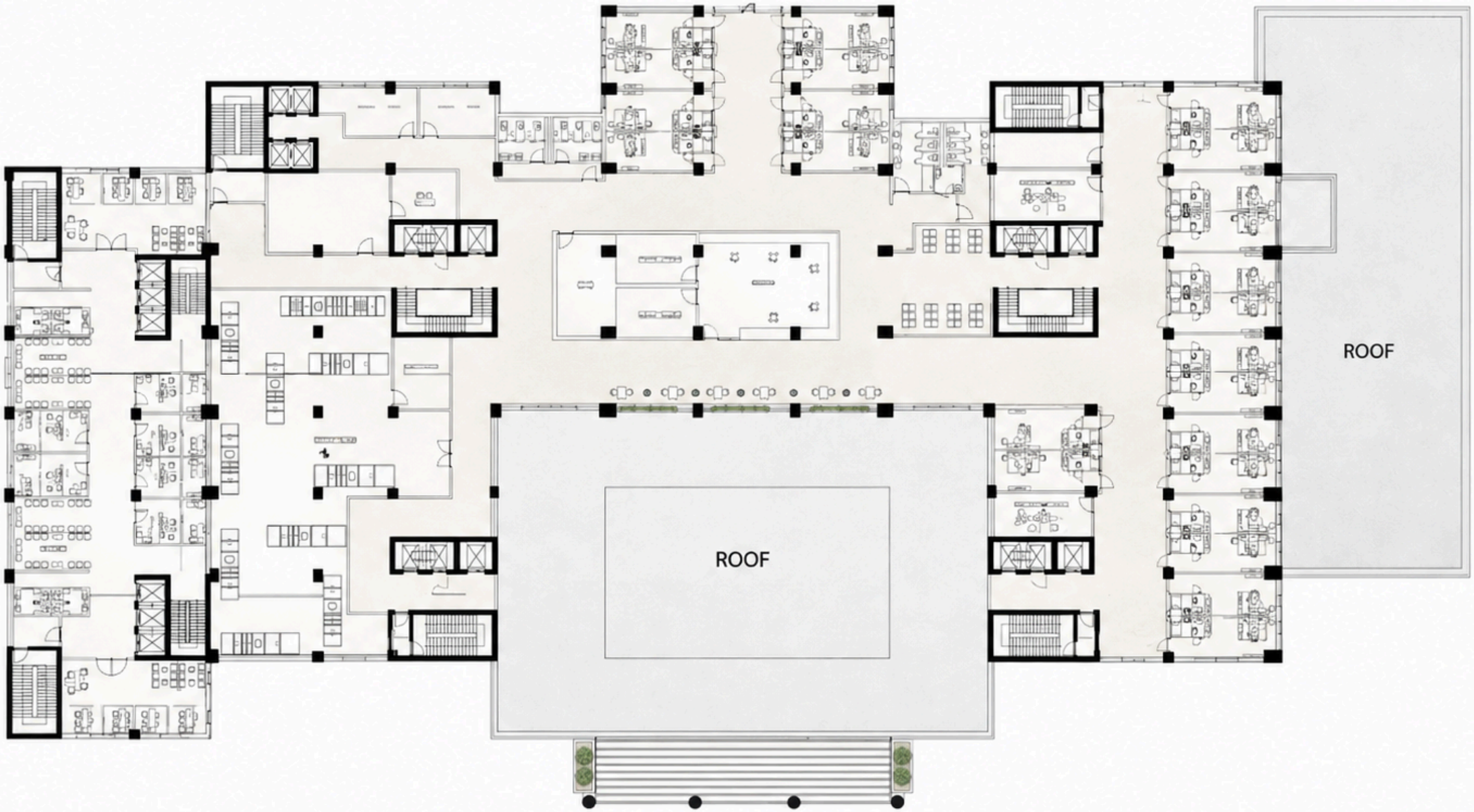
SECOND FLOOR PLAN

LEVEL +52



THIRD FLOOR PLAN

LEVEL +56



TYPICAL FLOOR PLAN

LEVELS +60 / +64 / +68

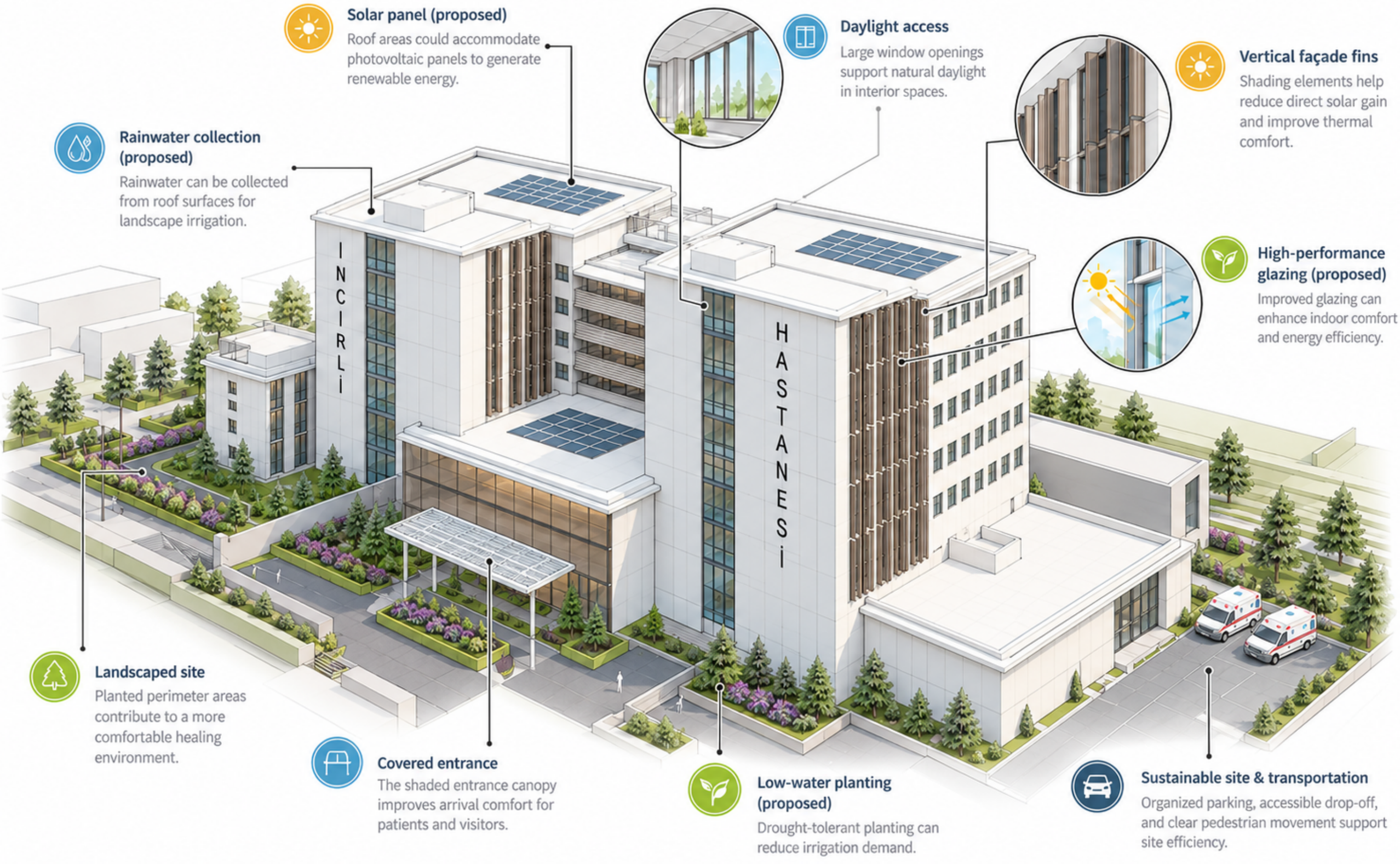


UPPER FLOOR PLAN

LEVEL +72



Sustainability System



Solar panel (proposed)

Roof areas could accommodate photovoltaic panels to generate renewable energy.

Rainwater collection (proposed)

Rainwater can be collected from roof surfaces for landscape irrigation.

Daylight access

Large window openings support natural daylight in interior spaces.

Vertical façade fins

Shading elements help reduce direct solar gain and improve thermal comfort.

High-performance glazing (proposed)

Improved glazing can enhance indoor comfort and energy efficiency.

Landscaped site

Planted perimeter areas contribute to a more comfortable healing environment.

Covered entrance

The shaded entrance canopy improves arrival comfort for patients and visitors.

Low-water planting (proposed)

Drought-tolerant planting can reduce irrigation demand.

Sustainable site & transportation

Organized parking, accessible drop-off, and clear pedestrian movement support site efficiency.

ARCHITECTURAL SECTIONS

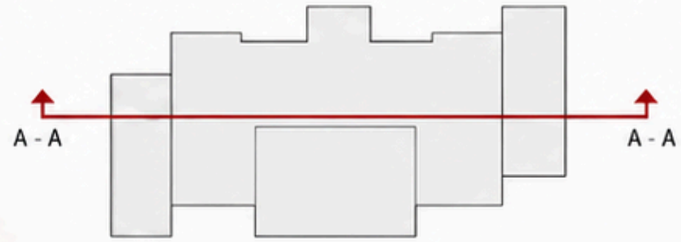


SECTION A-A



SECTION B-B

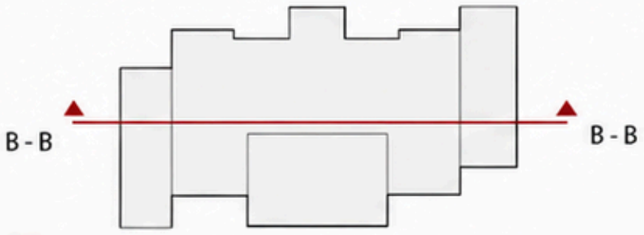
SECTION LOCATION





SECTION A-A

SECTION LOCATION





SECTION B-B



ELEVATION 01



ELEVATION 02



ELEVATION 03



ELEVATION 04

Beyond Architecture.
Through Light.

THANK YOU

