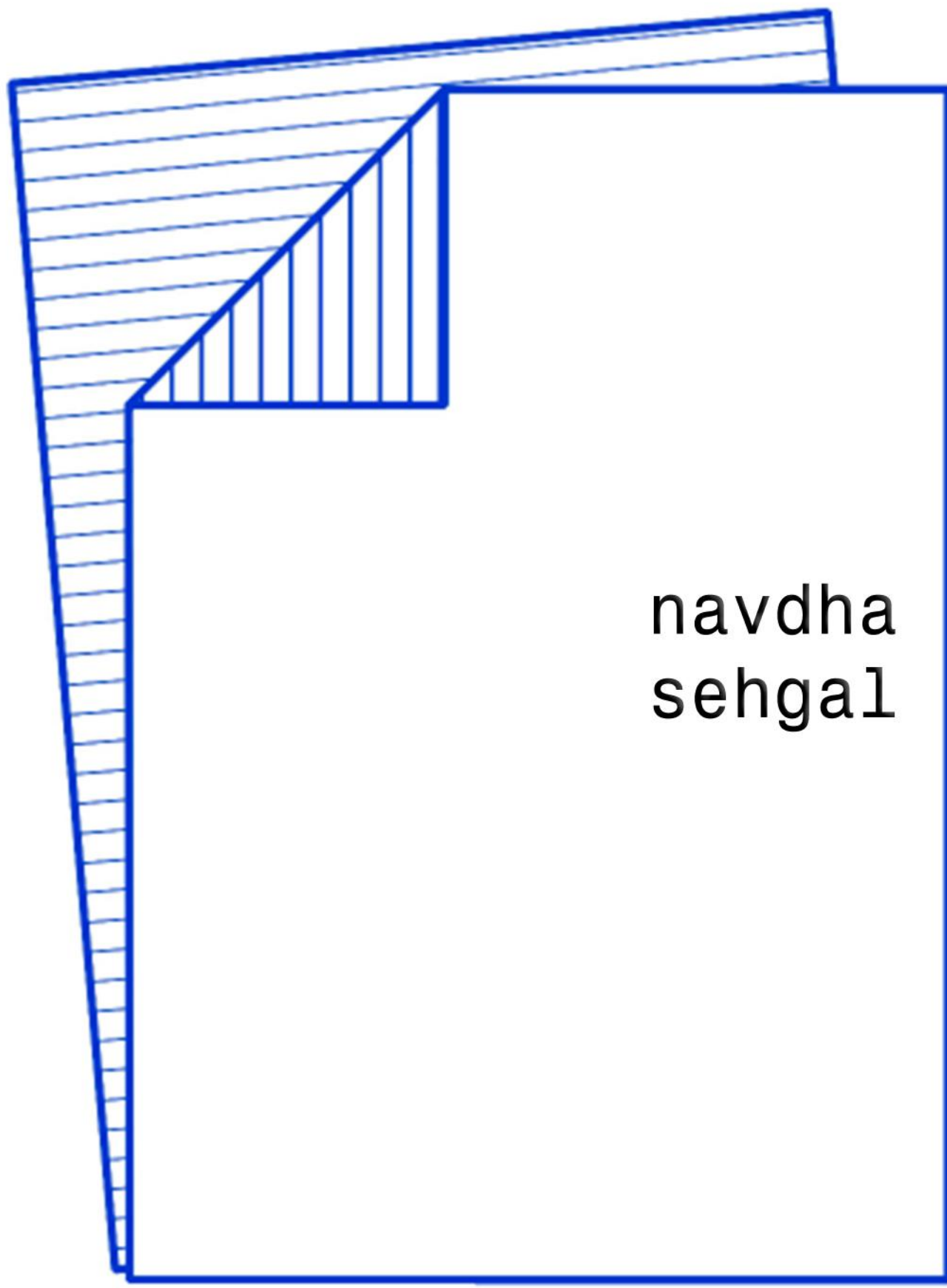




II edition

academic and professional

portfolio

navdha
sehgal

cellphone : +91 8130278600
e-mail : navdhat2410@gmail.com

navdha sehgal

diploma in architecture



01

why architecture?

02

when not
practicing
architecture?

03

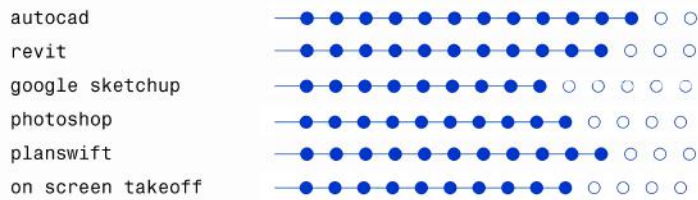
how do you want to
impact the environment?

01_ for someone like me, architecture, because it blends creativity, technology, and human experience. with my interest in ai, ar/vr, and computational design, i see architecture as more than just designing buildings—it's about innovating how we experience spaces. my psychology background adds another layer, helping me understand how people interact with environments in a way that feels intuitive and personalized. architecture gives me a dynamic canvas to explore the future of living—whether through smart homes, sustainability, or immersive design of living.

02_ reading, digital art, networking, internet surfing, games, volunteering, travelling or diving into something totally different!

03_ i hope, through the practice of architecture, to leverage my knowledge and skills for projects that will benefit current and future society. i hope to make a lasting impact, somehow!

softwares



languages



education

BA (hons) psychology | indra gandhi national open university
diploma in architecture | meera bai institute of technology
higher secondary | S.S.D.S.B.M

2021 - 2024
2015 - 2017
2013 - 2014

experience

Jr. Architect | Tecticonism Studio
tile shop drawings + millwork shop drawings drafting
softwares - autocad

jan 2025 to present

Jr. BIM Architect | Sanrachna
3d modelling + technical presentations + reports
softwares - revit, autocad

may 2022 to nov 2022

Jr. Architect | ZJZ Design Studio
site visits + correcting and drafting drawings
softwares - autocad, google sketchp, photoshop

oct. 2021 to feb 2022

Asst. Architect | Dhrupad Consultants
site visits+ correcting and drafting drawings + presentaion
softwares - autocad, google sketchp, powerpoint

sept 2019 to nov 2019

Quantity Estimator | Advance Estimating
quantity estimates of - stucco + stone + brick + paint + EIFS
softwares - planswift, on screen takeoff

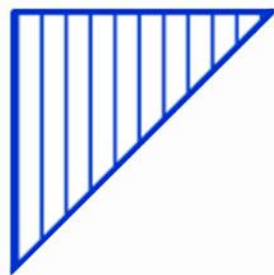
dec 2017 to aug 2019

soft skills

adaptability + problem solving + creative thinking + attention to detail + communication Skills + leadership
(entry-level) + collaboration & teamwork + Curiosity & Lifelong Learning

hobbies

art + reading + exploring + volunteering + photography & editing + travelling



contents

01

p. 07 - 16

2022

sanrachna,
office work samples

revit parametric
famalies +
hawaii model homes

02

p. 17 - 26

2021

zjz design studio,
office work samples

gupta's residence +
radhe kripa housing
society

03

p. 27 - 33

20xx

sheetwork

building construction +
architectural sheetwork

contents

04

20xx
residential house
design

p. 34 - 37

05

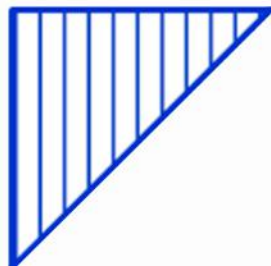
20xx
primary school
design

p. 38 - 41

06

20xx
nursing home design

p. 42 - 45



contents

07

20xx
artwork +
photography + others

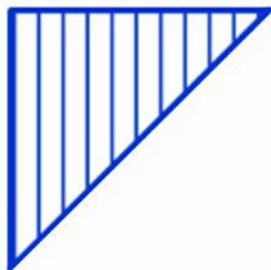
01

office work samples: selected works of sanrachna

the selected works showcases key contributions made during my tenure at sanrachna, these samples highlight an adaptive design approach rooted in client needs, spatial clarity, and refined detailing.

at sanrachna, i worked on creating a parametric revit family library for a new york-based architecture firm, including doors, partitions, and custom furnishings—designed to meet icc/ansi standards with clean, modular detailing.

i also contributed to 3d modeling and documentation for single-family residential projects in hawaii, developing plans, elevations, and framing layouts per ibc/irc codes. these samples highlight my technical precision, bim expertise, and adaptability across international design requirements.



01



project 1 – slce parametric family library

project type: parametric family creation

focus: development of revit-based 3d/2d libraries, parametric families, and construction detailing

scope: created 2d/3d parametric revit families for doors, partitions, and casework with icc/ansi compliance, clean detailing, and graphic consistency across views.

tools used: revit

slce is an architectural firm based in new york that wanted to create their own pre-prepared 2d and 3d revit family library.

my work involved creating high-precision bim assets including doors, partitions, casework, and furnishing elements for an international architecture firm. deliverables included clean parametric modeling, technical compliance with icc/ansi standards, and graphic consistency for both plan and elevation views. this sample showcases efficiency, accuracy, and digital clarity in a bim environment.

Technical drawing of the C165.3 Reach Ranges for Storage. The drawing includes a side view (top) and a front view (bottom). The side view shows a depth of 10 inches and a height of 34 inches (915 mm). The front view shows a width of 15 inches (380-440 mm) and a depth of 24 inches (255 mm). The front view also shows a height of 48 inches (1220 mm) and an adjustable range of 18 inches (460-300 mm). The front view is labeled 'Fig. C165.3 Reach Ranges for Storage'.

ANSI 404 Doors and Doorways.
ANSI 404.1 General.
 Doors fit in movable spaces and elements and closing accessible routes shall comply with the requirements of ANSI A117.1.
ANSI 404.2 Double Leaf Doors and Cuts.
 If doors close from two independently operated door leaves, then at least one leaf shall not meet the specifications in ANSI 404.2.2 & 404.2.3. That leaf shall be an active leaf.
ANSI 404.2.2 Clear Width.
 Doorways intended for clear passage shall have a minimum clear opening of 32 to 36 in (813 to 914 mm) with the door open 90 degrees, measured between the face of the door and the stop (see Fig. 404.2.2 (a)). (a) and (c) meeting more than 20 in (508 mm) in depth shall comply with 404.2.3 (see Fig. 404.2.3 (d)).
ANSI 404.2.3 Maneuvering Clearances of Doors.
 Minimum maneuvering clearances of doors that are not automatic shall comply as shown in Fig. 404.2.3.1, 404.2.3.2, and 404.2.3.4. The floor or ground area within the required clearances shall be level and clear.

Figure 404.2.3 illustrates the required maneuvering clearances for various door types and approaches. The diagrams show the minimum clear width and depth for each configuration, ensuring accessibility for individuals using wheelchairs. The clearances are specified in both inches and millimeters.

(a) Front Approach-Full Size
 48 in (1219 mm) clear width
 36 in (914 mm) depth
 42 in (1067 mm) depth

(b) Front Approach
 32 in (813 mm) depth
 42 in (1067 mm) depth

(c) Portal or Hinge Approach
 32 in (813 mm) depth
 42 in (1067 mm) depth

(d) Stop or Latch Approach
 32 in (813 mm) depth
 42 in (1067 mm) depth

(e) Front Approach-Full Size
 48 in (1219 mm) clear width
 36 in (914 mm) depth
 42 in (1067 mm) depth

(f) Hinge Approach-Full Size
 48 in (1219 mm) clear width
 36 in (914 mm) depth
 42 in (1067 mm) depth

(g) Front Approach-Full Size with Both Clear and Latch
 48 in (1219 mm) clear width
 36 in (914 mm) depth
 42 in (1067 mm) depth

(h) Front Approach-Full Size
 48 in (1219 mm) clear width
 36 in (914 mm) depth
 42 in (1067 mm) depth

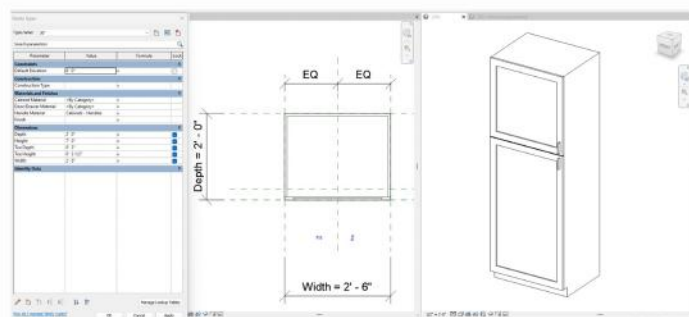
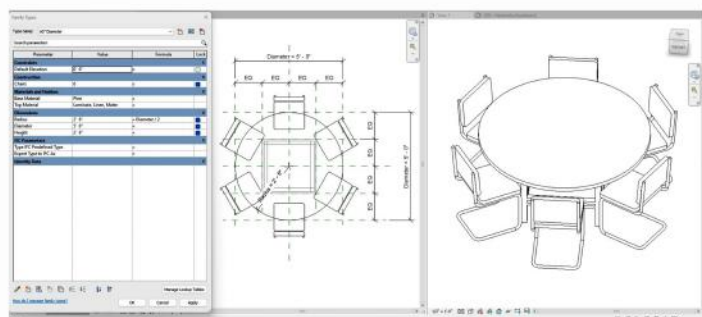
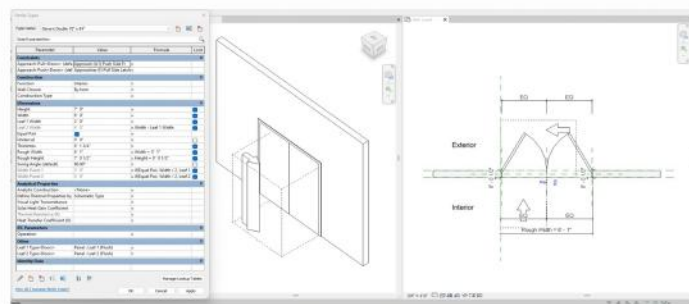
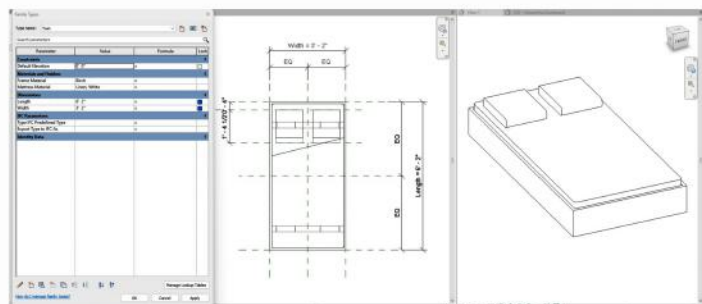
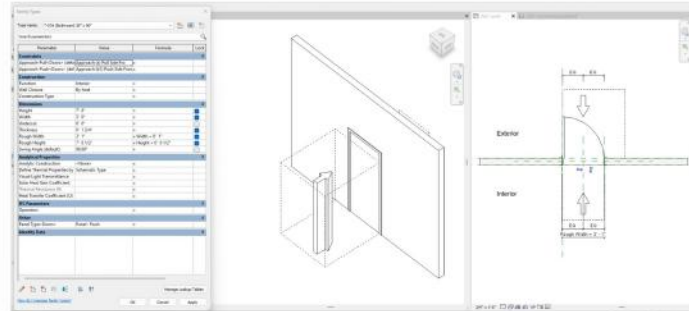
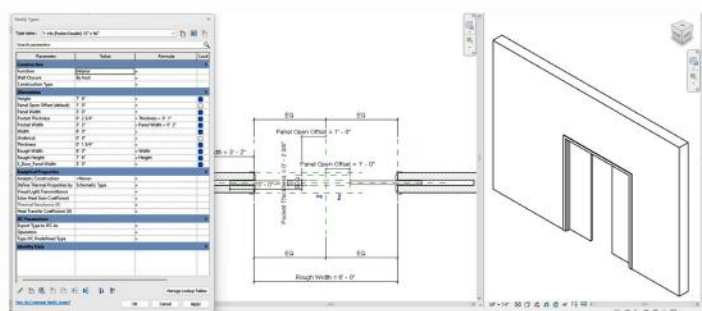
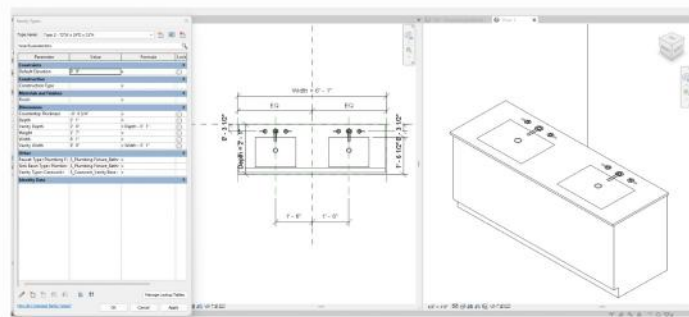
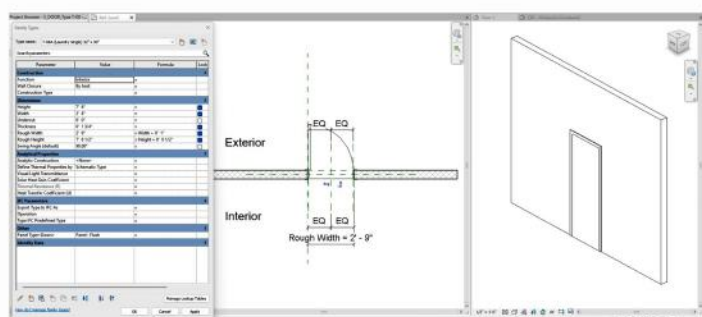
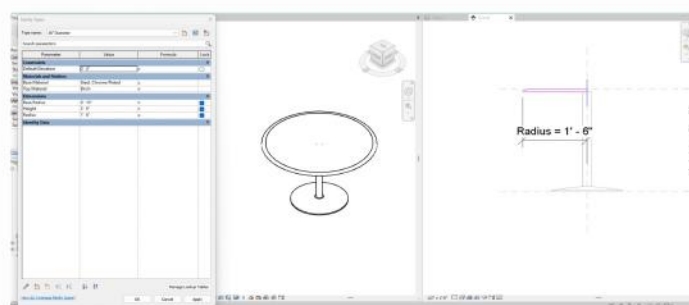
Maneuvering Clearances of Receded Doors
 (a) Door Width: 48 in (1219 mm) clear width
 Door Width

this sheet showcases a set of 2d revit families developed to align with ada, icc, and ansi a117.1 accessibility codes. it includes detailed annotations and diagrams for doors, clearances, storage units, fixtures, and turning radii—ensuring universal design standards are met. these components were created with high drafting precision, consistency across views, and optimized visibility for integration into bim documentation workflows.

6 CHASE WALL - NO RATING

7 CHASE WALL - 2HR

8 SCISSOR STAIR DEMISING PARTITION - 2 HR



01

project 1 – hawaii model homes, residential documentation

project type: single-family residential documentation

focus: 3d modeling and construction documentation/permit sets for custom homes in hawaii

scope: developed floor plans, elevations, framing, roof, and electrical layouts in revit; ensured compliance with ibc/irc codes and integrated region-specific building standards

tools used: revit architecture

these pages showcase my work on single-family residential projects in hawaii on different islands, focusing on complete architectural documentation and modeling. responsibilities included developing floor plans, elevations, framing layouts, electrical plans, and roof designs in revit—adhering to hawaii codes and local construction standards. each model home was coordinated for clarity, accuracy, and buildability, reflecting strong command over technical detailing and 3d visualization in a real-world context.

name of projects-

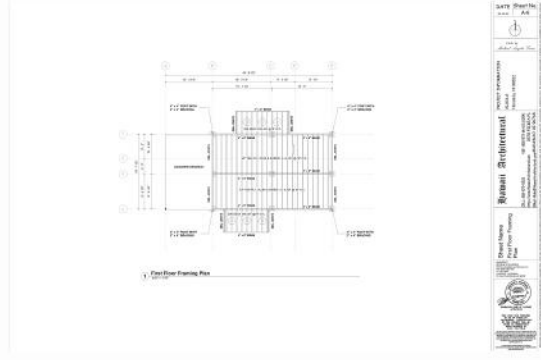
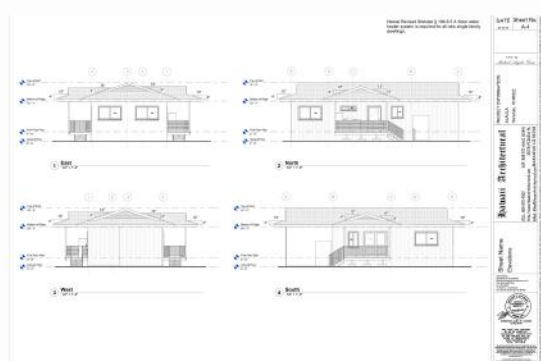
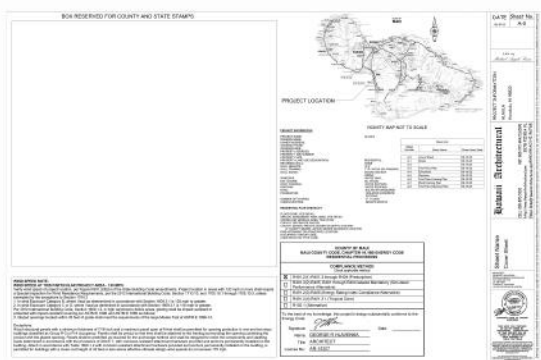
alaula

kanalani

makana

olu olu

hawaii model homes - Alaula

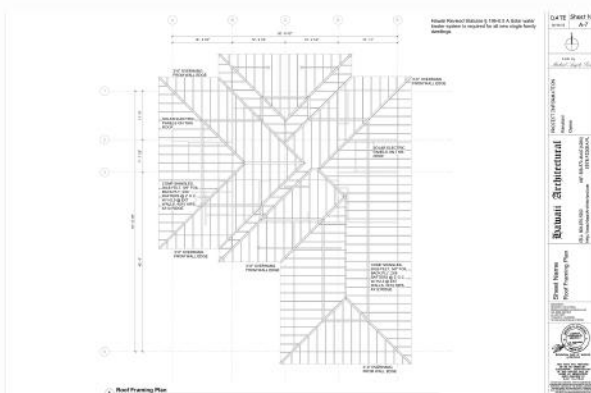
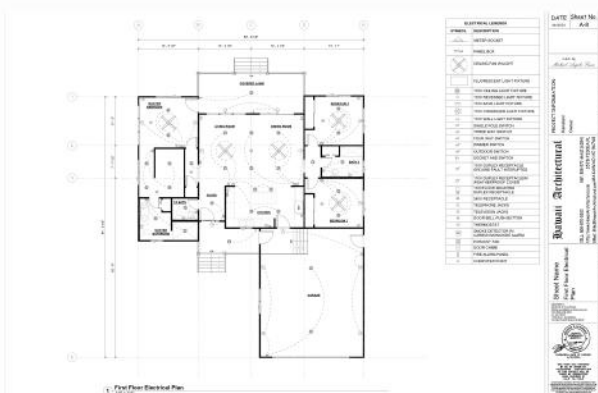
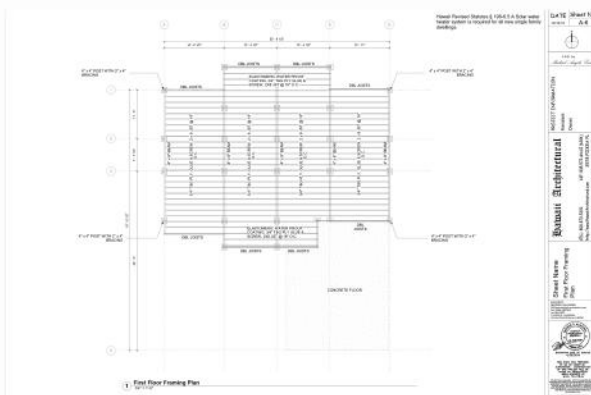
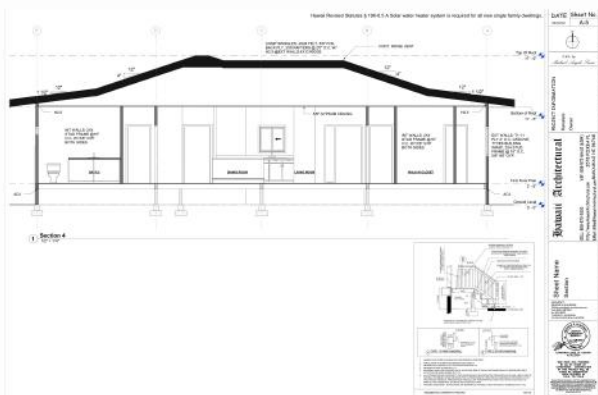
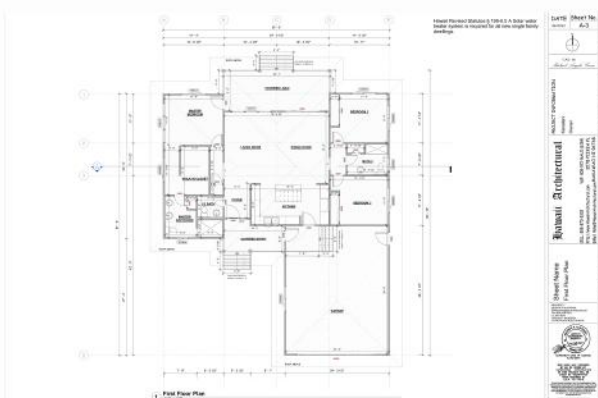
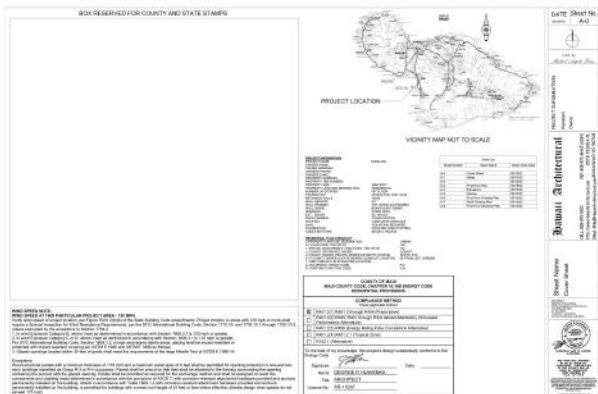


PROJECT INFORMATION

- PROJECT NAME: ALAULA
- PROPERTY LAND USE DESIGNATION: RESIDENTIAL
- RETAINING WALL: NONE
- WALL HEIGHTS: 8'-0"
- WALL FRAMING: TYP. WOOD 2X4 FRAMING
- WALL SIDING: BOARD AND BAT SIDING
- WINDOWS: WHITE VINYL
- EXT. DOORS: SC. WOOD
- ROOF FRAMING: WOOD RAFTERS
- ROOFING: WOOD ROOFING
- HVAC: SOLAR W/H REQUIRED
- FOUNDATION: ISOLATED CONCRETE FOOTING
- NUMBER OF STORIES: 1ST FLOOR
- CODES EDITIONS: IBC2012 IRC2012



hawaii model homes - Kanalani



PROJECT INFORMATION

PROJECT NAME: KANALANI

PROPERTY SIZE: 2663

SAFT

PROPERTY LAND USE

DESIGNATION:

RESIDENTIAL

NUMBER OF STORIES: IST

FLOOR

FOUNDATION MONOLITHIC

CON. SLAB

RETAINING WALLS NONE

WALL HEIGHTS 8' T

WALL FRAMING TYP. WOOD

2X4 FRAMING

WALL SIDING BOARD &

BAT SIDING

WHITE VINYL

EXT. DOORS SC. WOOD

ROOF FRAMING TRUSS

SYSTEM

BOOFING COMPOSITE

SHINGLES

HVAC SOLAR W/H

REQUITBED

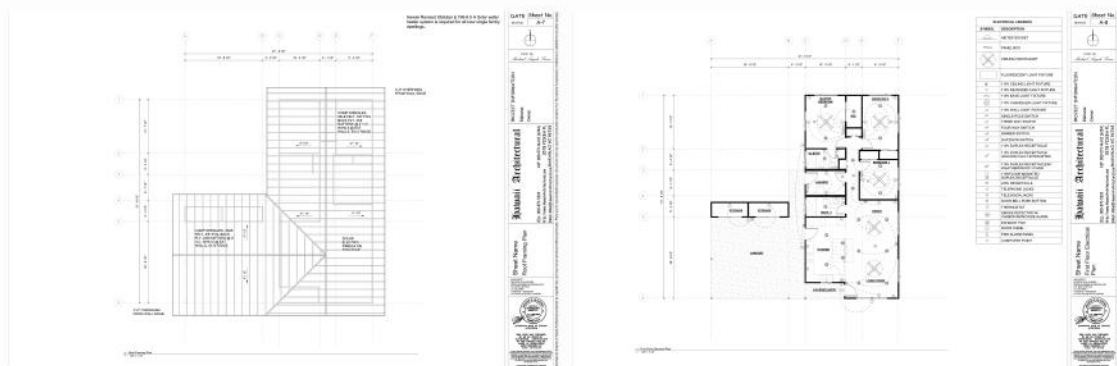
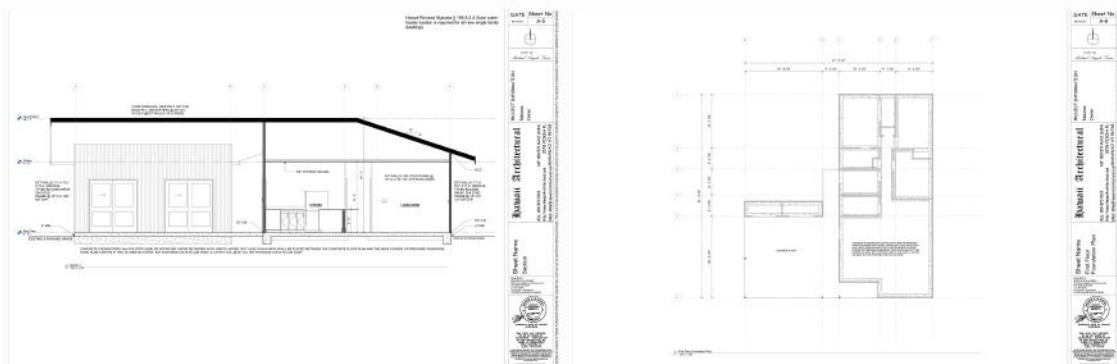
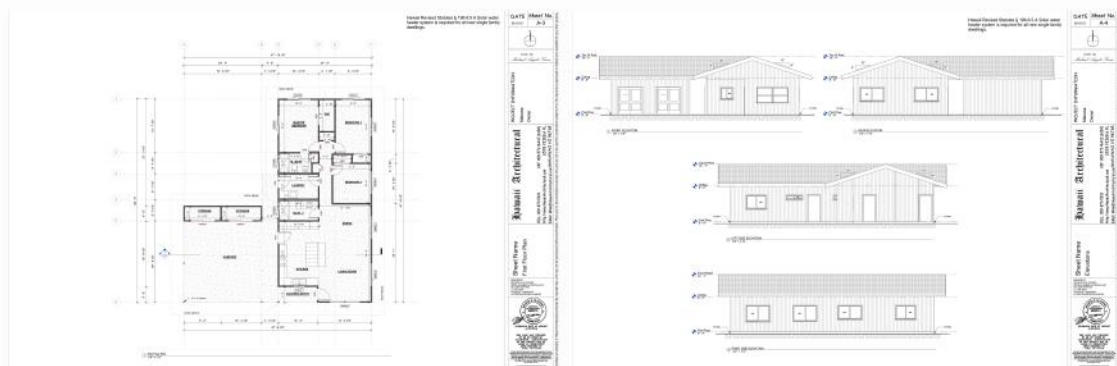
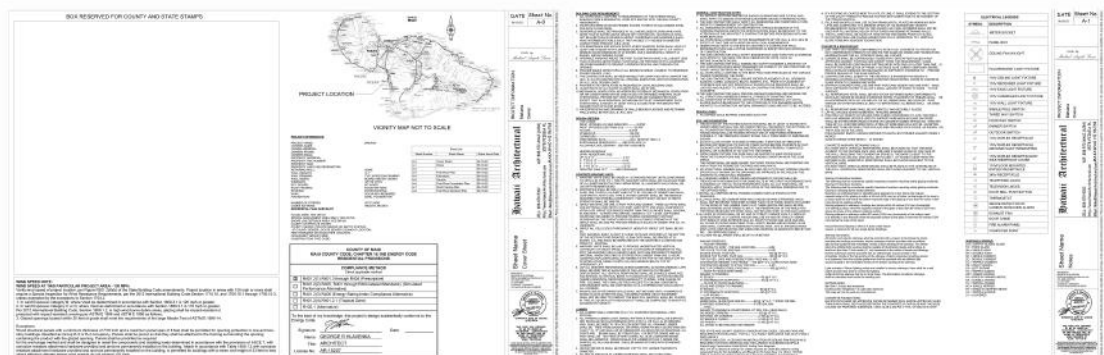
FOUNDATION: [SOLATED

CONC. FOOTING

CODES EDITIONS:

TBC2012 TBC2012

hawaii model homes - Makana



NOT FOR CONSTRUCTION

PROJECT LOCATION: 

PROJECT NAME: **Model Home**

PROJECT ADDRESS: **12345 Kalia Road, Honolulu, HI 96811**

PROJECT OWNER: **ABC Company**

PROJECT ARCHITECT: **XYZ Architects**

PROJECT ENGINEER: **DEF Engineers**

PROJECT PERMIT: **123456789**

PROJECT DATE: **12/12/2023**

PROJECT STATUS: **Approved**

PROJECT NOTES: **See attached drawings for details.**

PROJECT SIGNATURE: **[Signature]**

PROJECT SEAL: **[Seal]**

PROJECT DESCRIPTION: **Model Home**

PROJECT DETAILS: **See attached drawings for details.**

PROJECT NOTES: **See attached drawings for details.**

PROJECT SIGNATURE: **[Signature]**

PROJECT SEAL: **[Seal]**

PROJECT SIGNATURE: **[Signature]**

PROJECT SEAL: **[Seal]**



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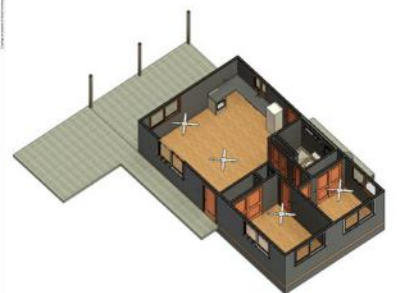
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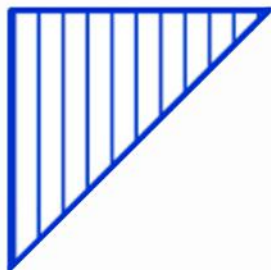
02



office work samples: selected works of zjz design studio

this portfolio showcases a selection of our residential projects, highlighting our expertise in creating sophisticated and functional environments. we pride ourselves on our attention to detail, from initial concept renders to the precise specification of materials and finishes, ensuring every element contributes to a cohesive and inspiring design.

the selected works showcases key contributions made during my tenure at zjz design studio, focusing on high-end residential interiors. from detailed drawings to concept development and execution support, these samples highlight an adaptive design approach rooted in client needs, spatial clarity, and refined detailing.



02



project 1 – gupta's residence

project type: residential

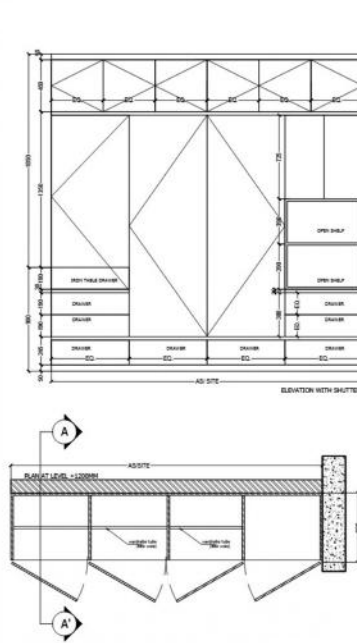
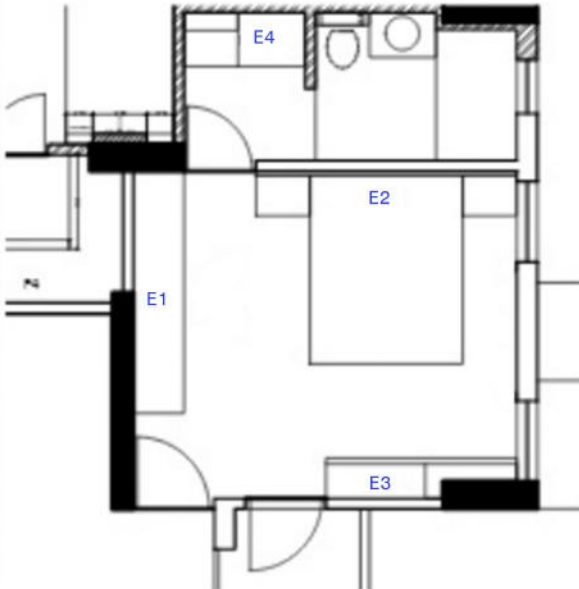
room focus: daughter's bedroom

scope: furniture layouts, wall elevations, joinery, and storage detailing

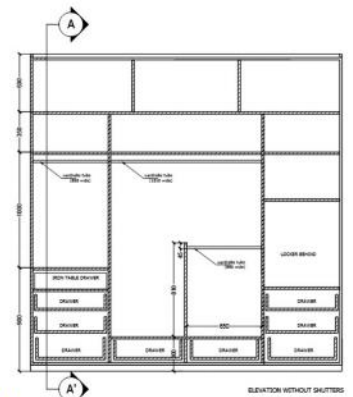
tools used: Autocad, sketchup, photoshop

the daughter's bedroom in gupta residence was designed to blend aesthetics with practical needs for a growing individual. the space features custom furniture solutions including a full-height wardrobe, cushioned headboard with integrated storage, a study nook, and display units. detailed elevations and sections illustrate the use of textures, led lighting profiles, and thoughtful material combinations to create a cohesive and functional environment tailored to personal comfort and modern living.

daughter's room layout

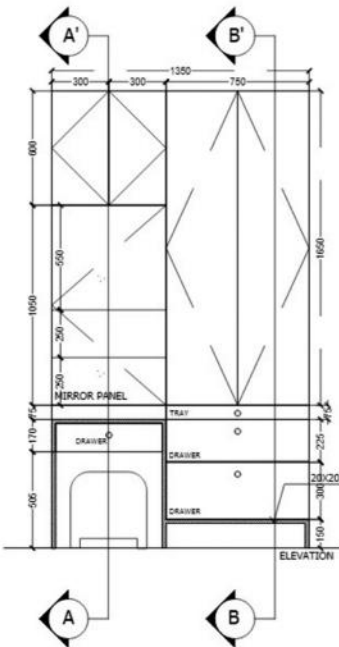


E1

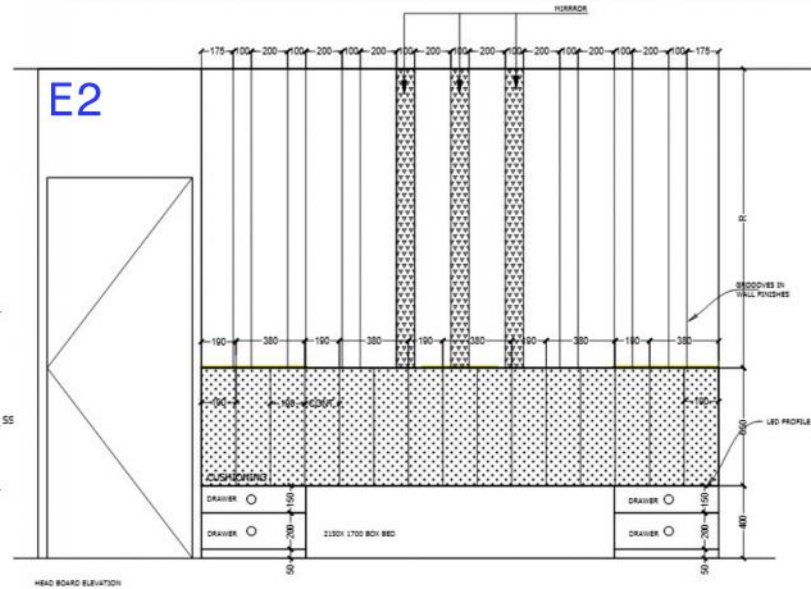
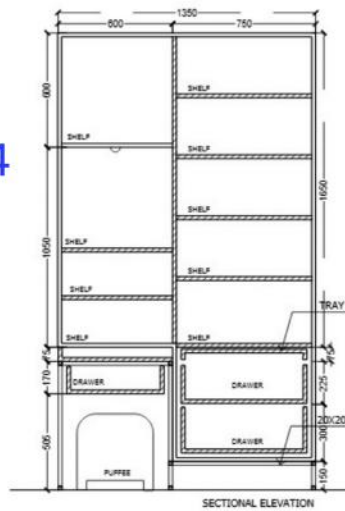


E1 – Wardrobe Elevation and Section

This sheet shows a detailed front elevation and section of the built-in wardrobe. It highlights the symmetrical shutter design, internal shelving, drawer units, and hanging space. The section further clarifies joinery elements and profiles used in its construction.



E4

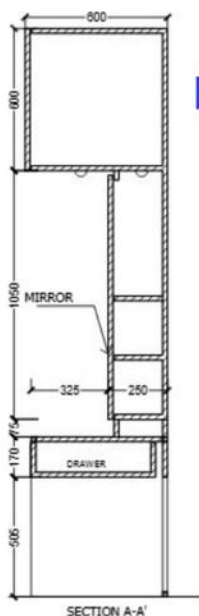


E2 - Headboard with storage and mirror

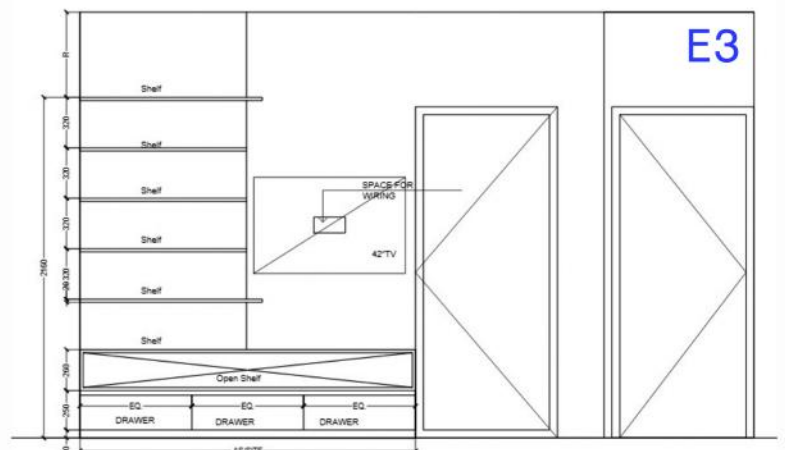
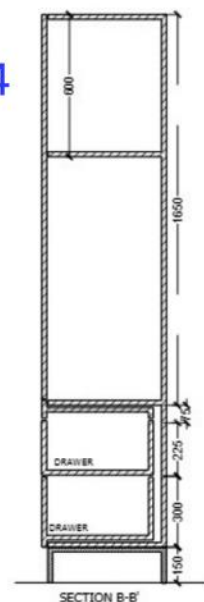
A custom-designed bed box unit with integrated cushioning, a central mirror panel, and grooved wall finishes. The full-width headboard features symmetrical divisions, LED highlights, and pull-out drawers below for added storage—combining comfort, function, and visual appeal.

E4 – Tall Storage Unit Details

These technical drawings show multiple views of the tall storage cabinet. Sectional views clarify the layout of shelves, drawer units, mirror integration, and hinge mechanisms, supporting both aesthetic and utility aspects of the design.



E4



E3 – TV + Display Unit Elevation

This section presents an entertainment unit and shelving system. It integrates a TV niche, a set of drawers, and asymmetric wall shelves designed for display, creating a multi-functional storage and entertainment zone.

02



project 1 – gupta's residence

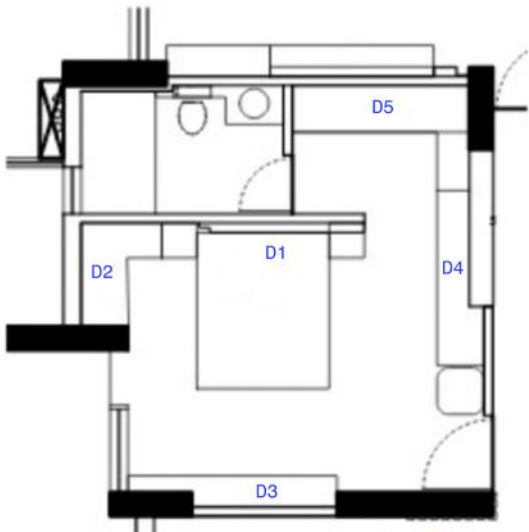
project type: residential

room focus: son's bedroom

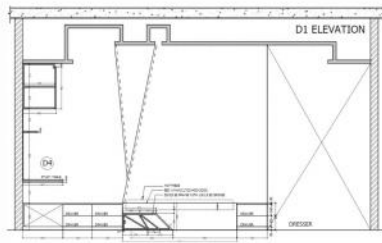
scope: interior planning, custom joinery, storage design, and lighting integration

tools used: Autocad, sketchup, photoshop

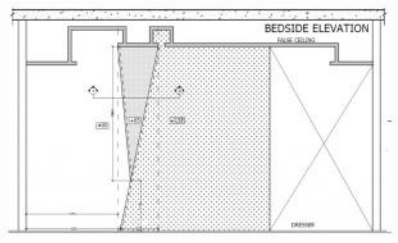
the son's bedroom was crafted with a focus on clean geometry, built-in functionality, and spatial clarity. key components include a tailored study unit with open shelving, a full-length wardrobe with mirrored sliding shutters, a compact dresser, and a media unit flanking existing structural elements. the design emphasizes modularity and layered detailing through sections and elevations, incorporating integrated led lighting, hidden storage, and sleek surface finishes to support both functionality and visual harmony.



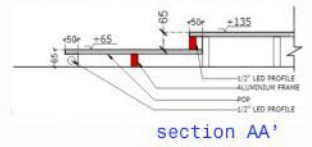
son's room layout



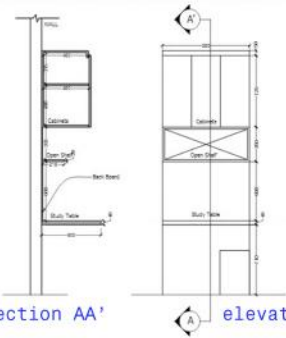
D1



D1 – wardrobe elevation and section
a detailed elevation showing the bed placement and dresser unit. led profiles are integrated into the ceiling drop, enhancing the space with ambient lighting.



section AA'



D2

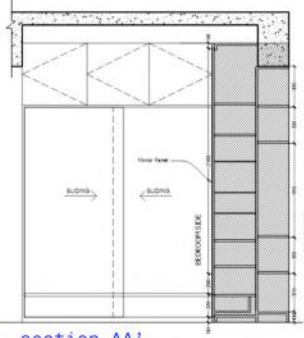
D2 – study unit elevation and section
this drawing highlights the study corner with open shelves, overhead cabinets, and a wall-mounted study desk.

section AA'

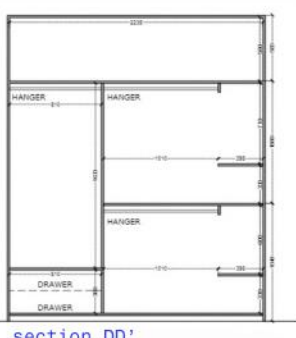
elevation D2

D4 & D5

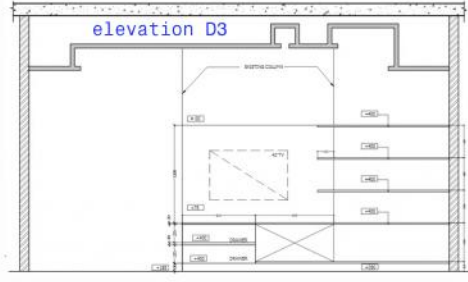
wardrobe sections (D4 & D5)
detailed layout and sections of the dressing wardrobe. it includes drawers, foldable ironing board, and multiple shelves designed for optimized organization.



section AA'

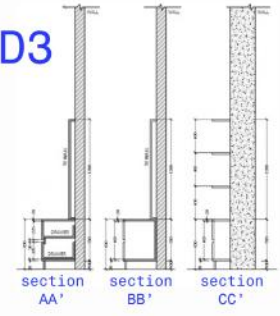


section DD'



elevation D3

D3

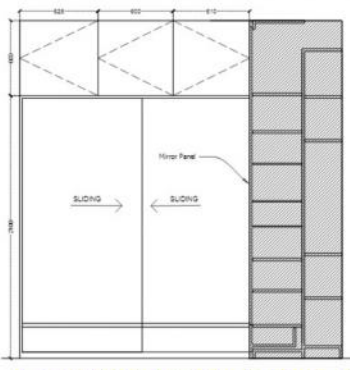


section AA'

section BB'

section CC'

D3 – entertainment wall elevation and section
d3 shows the tv panel with drawers and back paneling flanked by existing structure.

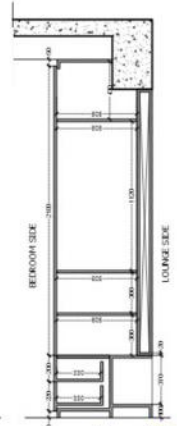


D5 elevation towards bedroom side

D4 & D5

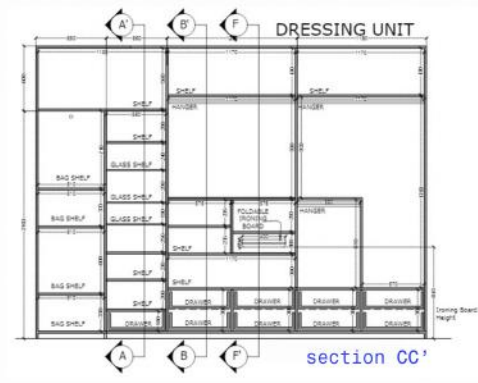


section FF'



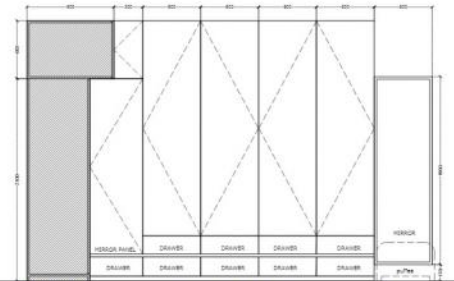
section BB'

D4 & D5

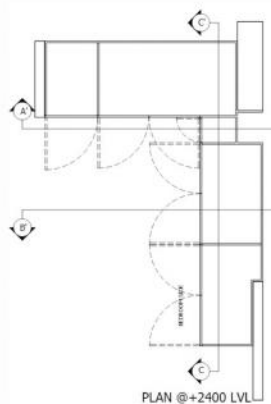


section CC'

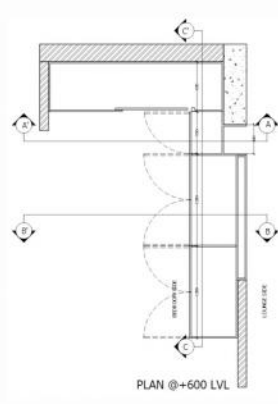
wardrobe elevations (D4 & D5)
front elevation toward bedroom side shows sliding shutters with integrated mirror panels. emphasis on symmetry and clean lines with continuous drawer layout below.



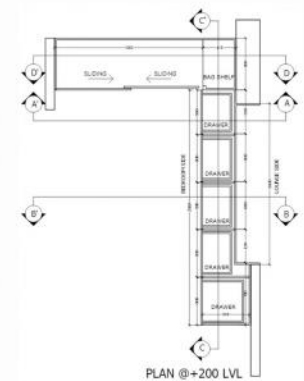
D4 elevation towards bedroom side



PLAN @+2400 LVL



PLAN @+600 LVL



PLAN @+200 LVL

wardrobe plan views

overhead plans at different levels (+200, +600) showcasing shelf alignment, shutterdirection, and door swing clarity in spatial planning.

02



project 2 – radhe kripa housing society type D sample flat

project type: multi-unit residential

focus: sample flat interior development for master bedroom, guest room, kitchen, living, and kids' bedroom

scope: interior fit-out, furniture detailing, and material application across multiple room typologies

tools used: AutoCAD, photoshop, sketchup

radhe kripa housing society is a multi-dwelling residential project focusing on modular, efficient, and material-conscious interiors. the selected units feature detailed interior compositions for master bedrooms, guest rooms, kitchens, living areas, and kids' bedrooms. each room is designed with specific user needs in mind—balancing practical storage with aesthetic clarity. through rendered views, detailed elevations, and construction drawings, the design emphasizes coordinated finishes, optimized layouts, and a unified design language across varied spaces.

type-d sample flat, plans



layout plan



elevation and room marking plan

layout and elevation and room marking plan

this drawing set includes the layout plan and elevation & room marking for the type d sample flat. the layout illustrates the overall spatial organization and flow, while the room marking section clearly designates each area, providing a foundational

SPACE	NOTATION	ITEM NAME	QUANTITY
GUEST BEDROOM	GB1	BED	1
	GB2	SIDE TABLE	2
	GB3	TV UNIT	1
	GB4	WARDROBE	1
	GB5	STUDY TABLE	1
	GB6	CHAIR	1
	GB7	TABLE LAMP	2
KIDS BEDROOM	KB1	BED	2
	KB2	BOOK SHELVES	1
	KB3	WARDROBE	1
	KB4	STUDY TABLE	1
	KB5	CHAIR	1
LIVING ROOM	LR1	TV UNIT	1
	LR2	SOFA	1
	LR3	COFFEE TABLE	1
	LR4	LOOSE CHAIR	2
	LR5	SIDE TABLE	1
	LR6	WALL ARTWORK	1
	LR7	TABLE LAMP	1
LOUNGE	LO1	SOFA	1
	LO2	COFFEE TABLE	1
	LO3	WALL ARTWORK	1
	LO4	WALL CLOCK	1
DINING	DN1	DINING TABLE	1
	DN2	DINING CHAIR	6
MASTER BEDROOM	MB1	BED	1
	MB2	HEADBOARD	1
	MB3	TV UNIT	1
	MB4	WARDROBE	1
	MB5	LOOSE CHAIR	2
	MB6	FLOOR LAMP	1
	MB7	PENDANT LIGHT	2
	MB8	COFFEE TABLE	1
	MB9	WALL PAINTING	1
	MB10	DRESSING	1



furniture tagging plan

furniture tagging plan

this furniture tagging plan inventories and locates all furniture items within the type d sample flat. each piece is clearly identified with a unique tag, name, and quantity, providing a precise guide for furniture

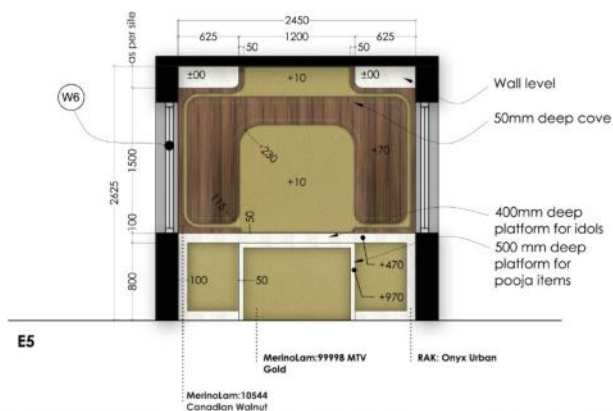
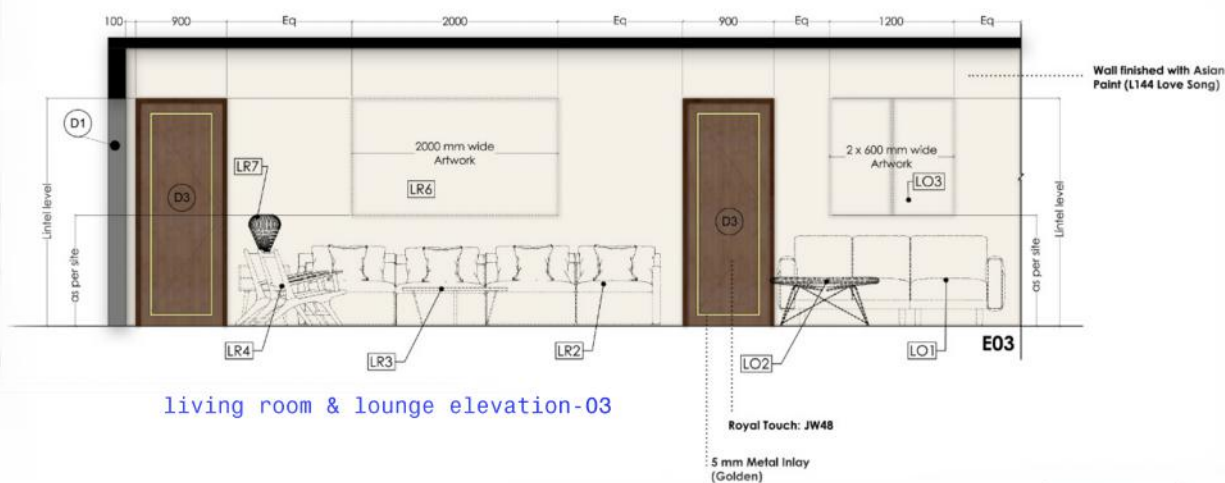
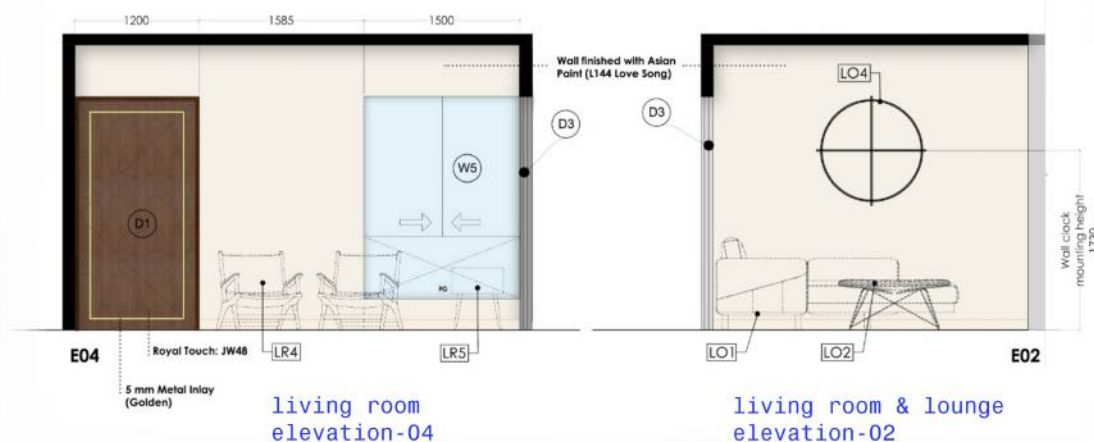
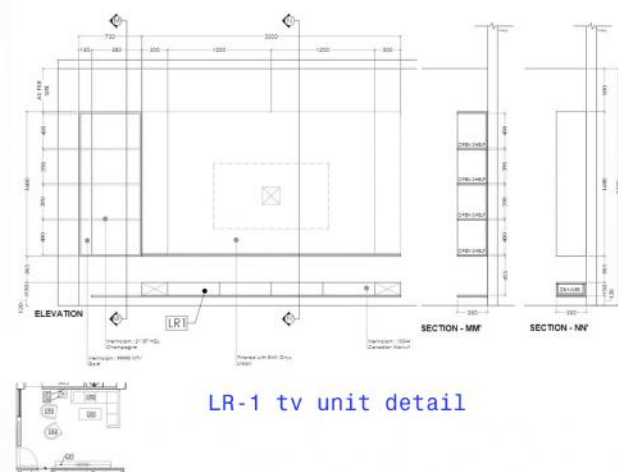
- Starting Point
- (1) RAK: Florito Beige (600 x 1200)
 - (2) KAARA: Oak Caramel (600 x 1200)
 - (3) RAK: Cement Beige (600 x 600)
 - (4) RAK: Coaststone (Brown + Bianco) (600 x 600)
 - (5) RAK: Cannes BR FL (300 x 300)
 - (6) Fusion Grey (600 x 600)
 - (7) Breccia Aurora (600 x 1200)
 - (8) Fusion Beige (600 x 600)
 - (9) Plain Ivory (600 x 600)
 - (10) Compore Dk Grey FI (300 x 300)



flooring plan

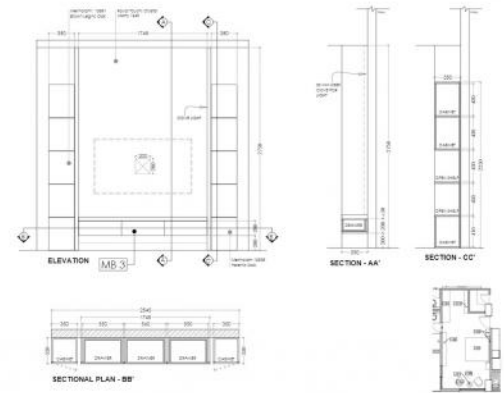
flooring plan

this flooring plan details the material selections and layout for all flooring surfaces within the type d sample flat. it specifies a variety of tiles from rak and other brands, indicating their placement and dimensions to clearly define the aesthetic and functional zones of the apartment.

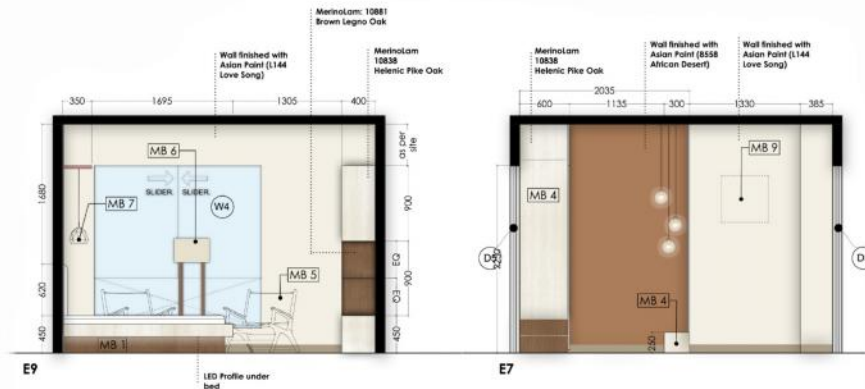




master bedroom elevation - 06



MB-3 tv unit detail



master bedroom elevation - 09

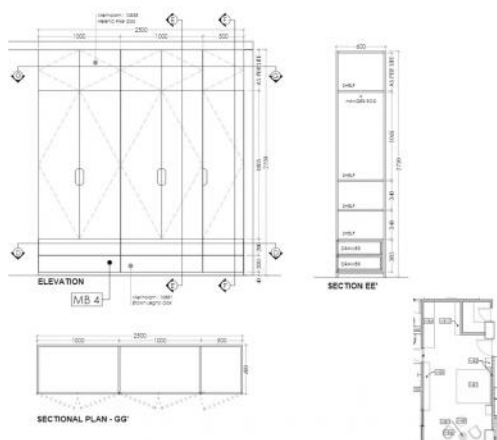
master bedroom elevation - 07



master bedroom elevation - 08



MB-4 cupboard detail - 1

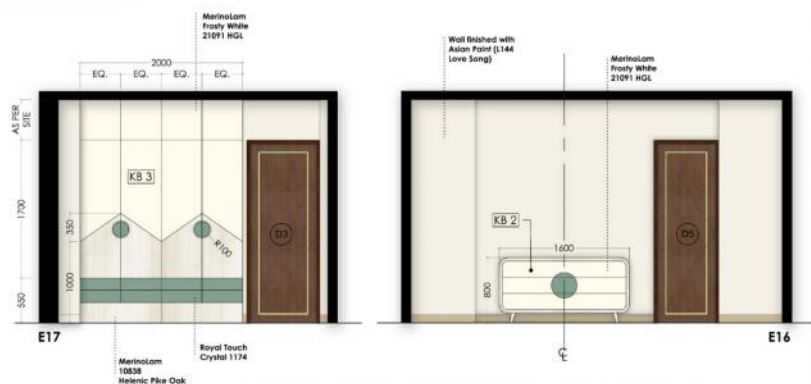


MB-4 cupboard detail - 2

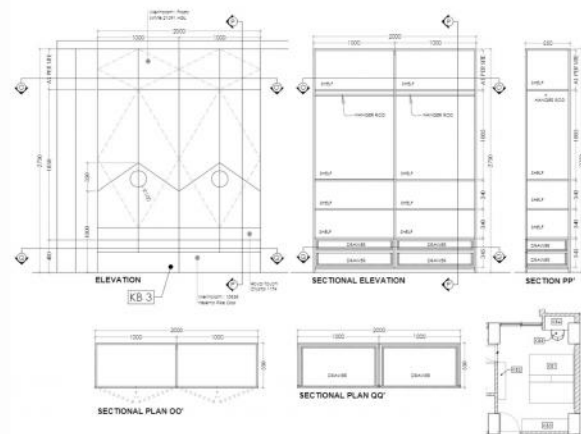


elevation and room marking plan

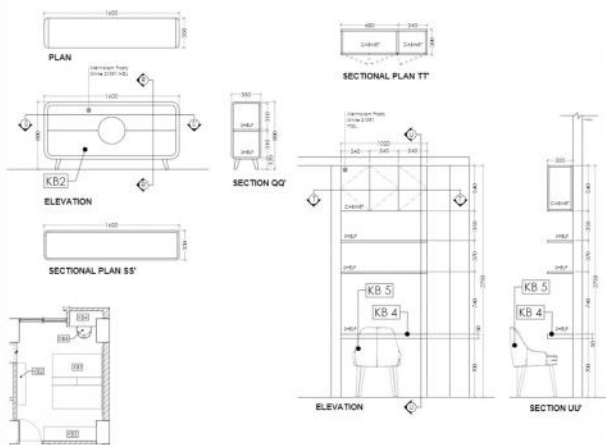
kids bedroom elevations and details



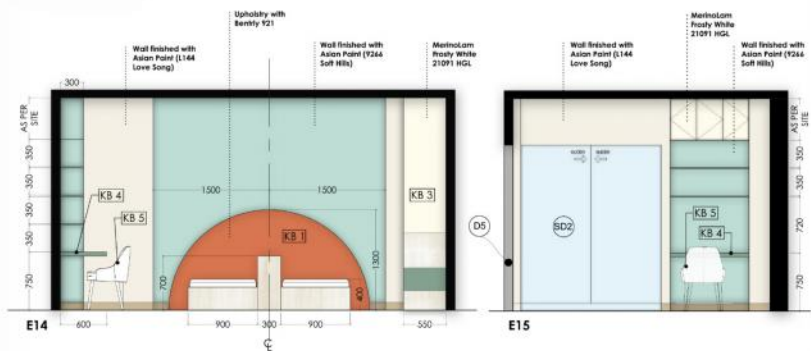
kids bedroom elevation - 17 and 16



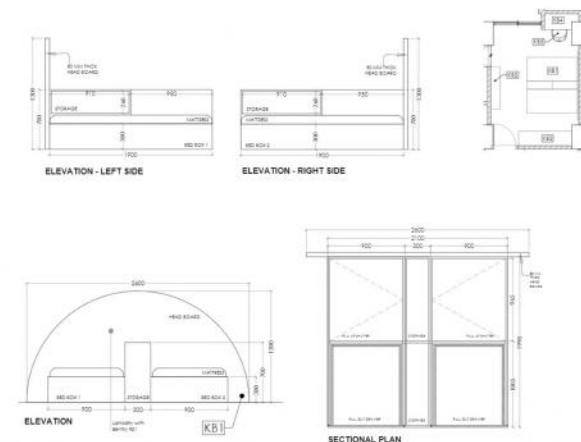
kb-3 cupboard detail



kb-2, kb-4, kb-5 detail



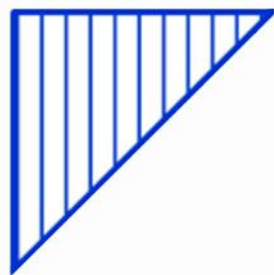
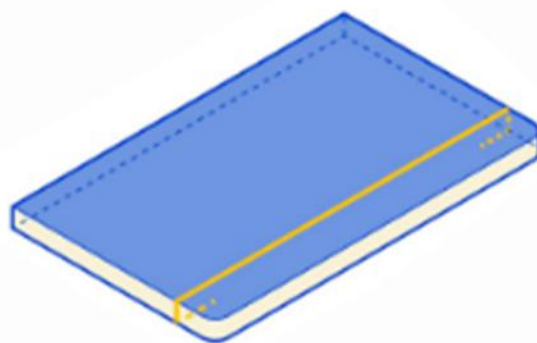
kids bedroom elevation - 14 and 15



kb-1 bed detail



elevation and room marking plan



03

selected sheetwork: construction detailing & architectural design

this portfolio showcases a selection of hand-drawn technical sheets, demonstrating a comprehensive understanding of building construction principles and architectural design detailing. each drawing reflects a meticulous approach to precision, functionality, and aesthetic consideration, from fundamental structural elements like steel trusses and various door and window types, to intricate interior designs for kitchens and reception areas.

through these detailed illustrations, i aim to highlight my proficiency in translating design concepts into practical, buildable solutions, emphasizing material knowledge, joinery techniques, and spatial planning. this collection underscores my commitment to clarity in technical documentation and a strong foundation in architectural drafting and construction methods.

architectural design sheetwork-

kitchen design

reception counter design

building construction sheetwork-

panel door

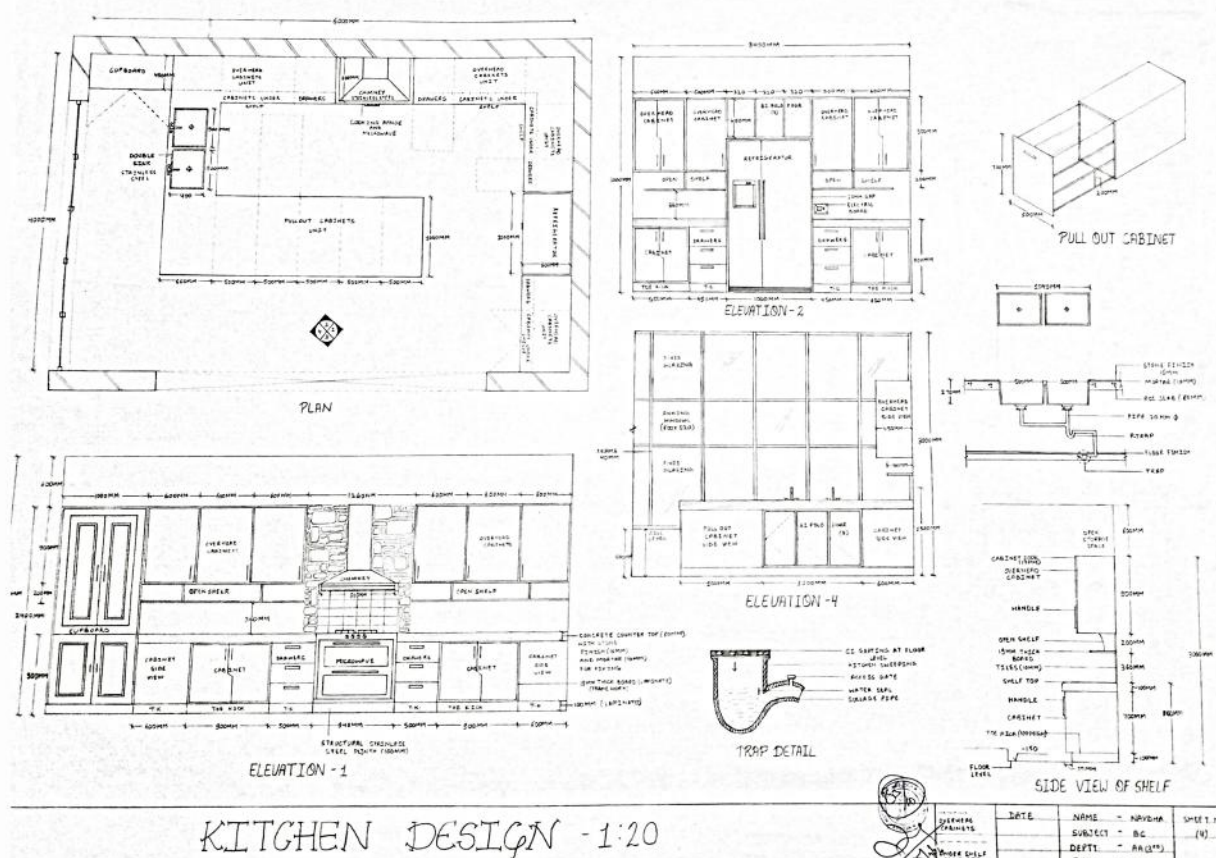
casement window

rolling shutter

collapsible door

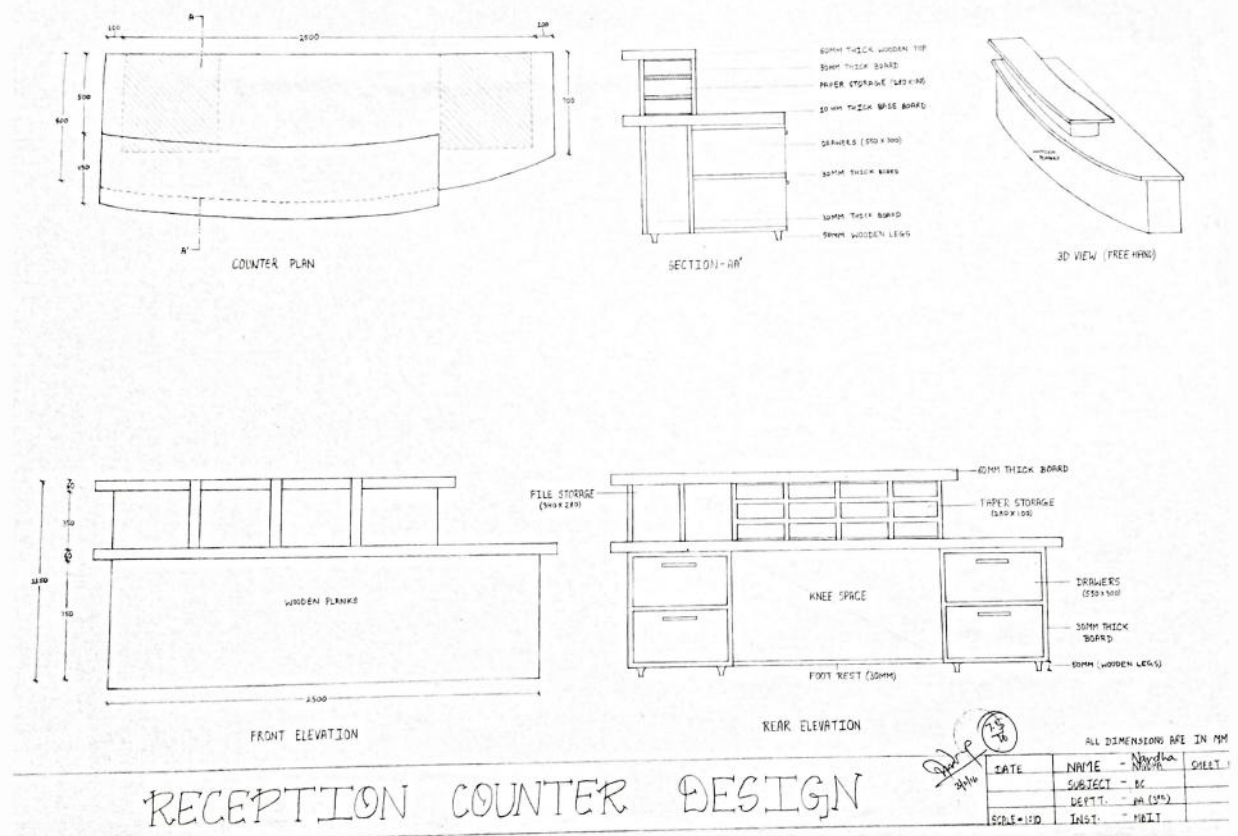
flush door

fly shutter



comprehensive kitchen design

this sheet details a comprehensive kitchen design, featuring a well-organized plan layout and multiple elevations of cabinetry. the plan illustrates the strategic arrangement of base and wall cabinets, appliances, and work surfaces. elevations provide detailed front views of various cabinet sections, indicating dimensions and features like drawers and shelves. specific detailed drawings for elements such as a pull-out cabinet, sink, and shelf side view are also included, showcasing a thorough understanding of kitchen ergonomics, storage optimization, and functional design.

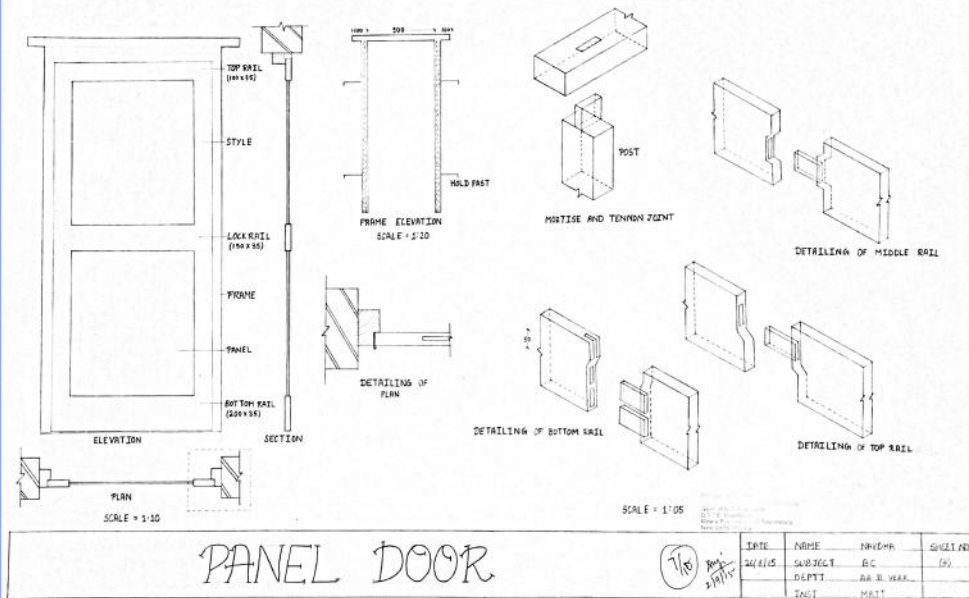


reception counter design

this sheet presents a functional and aesthetically pleasing design for a reception counter. the drawings include a counter plan, front and rear elevations detailing storage and knee space, a section cut, and a 3d freehand view for enhanced visualization. the design thoughtfully incorporates drawers, shelves, and varying material thicknesses, demonstrating a keen eye for both user experience and practical storage solutions in commercial spaces.

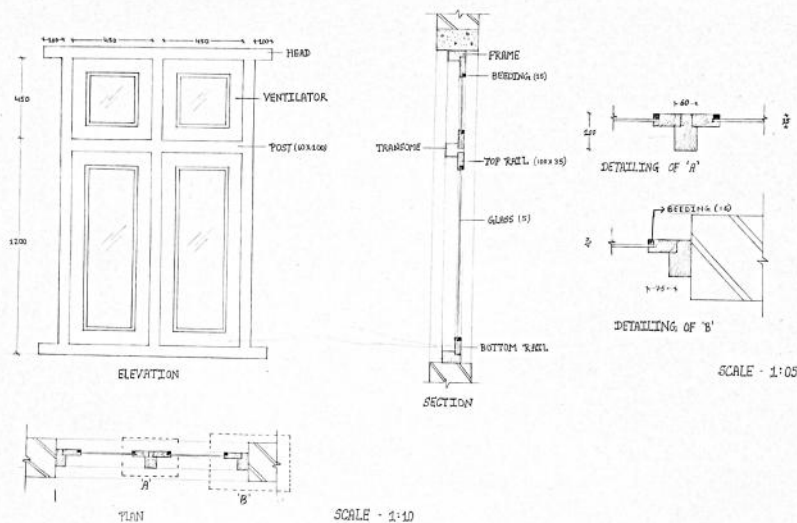
panel door joinery

this sheet showcases the design of a traditional panel door, characterized by its classic construction using solid panels within a framework. the drawing includes an elevation, a section cut, and a plan view. detailed isometric views clearly illustrate the mortise and tenon joinery, a fundamental technique for connecting stiles and rails, and specific detailing for the top, middle, and bottom rails. this design highlights expertise in traditional timber joinery and structural integrity.



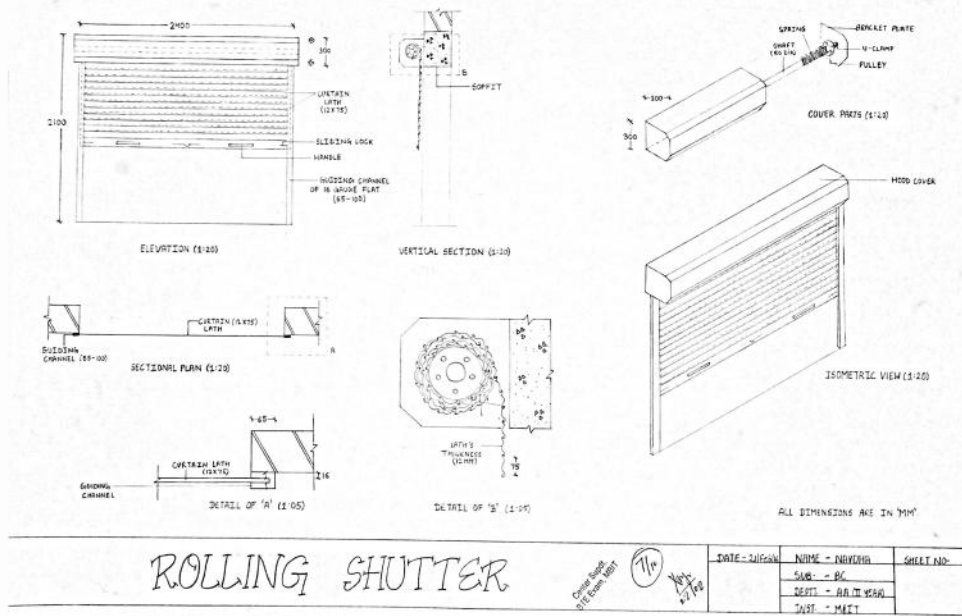
casement window design

this drawing details the design of a casement window, a popular window type hinged on the side. the sheet includes an elevation showing multiple panes and a ventilator, a vertical section through the frame and sash, and a plan view illustrating the opening mechanism. enlarged details (labeled 'a' and 'b') provide insights into the frame construction, bedding, and glazing aspects, demonstrating a comprehensive understanding of window design and functionality.



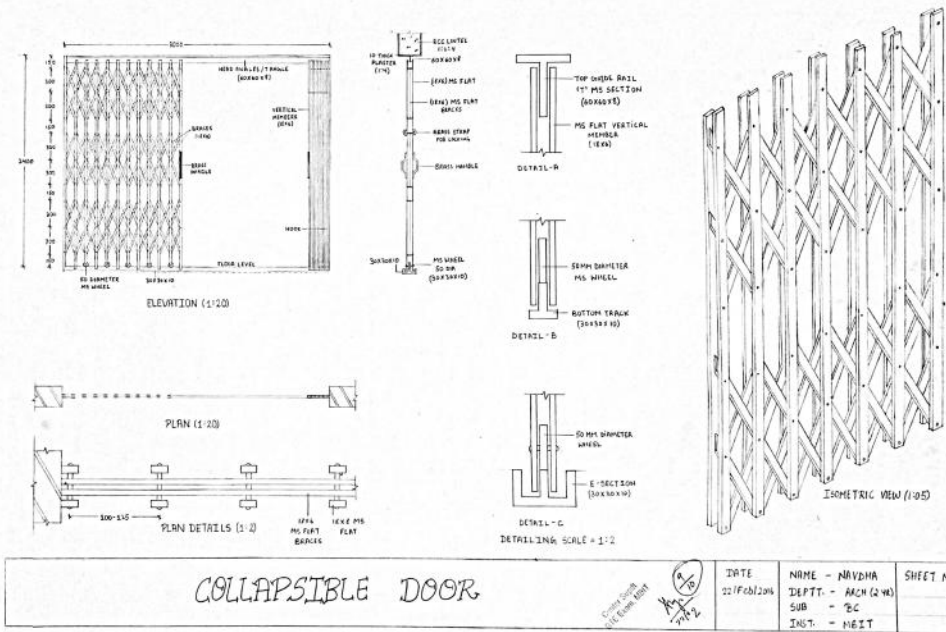
Rolling Shutter

this sheet details the design of a rolling shutter, a common security and weather protection solution for various openings. it features an elevation showing the shutter curtain and its operating mechanism, a vertical section revealing the housing and guide channels, and a sectional plan. detailed views further explain the slat profile, interlocking system, and hardware connections, highlighting an understanding of mechanical security closures.



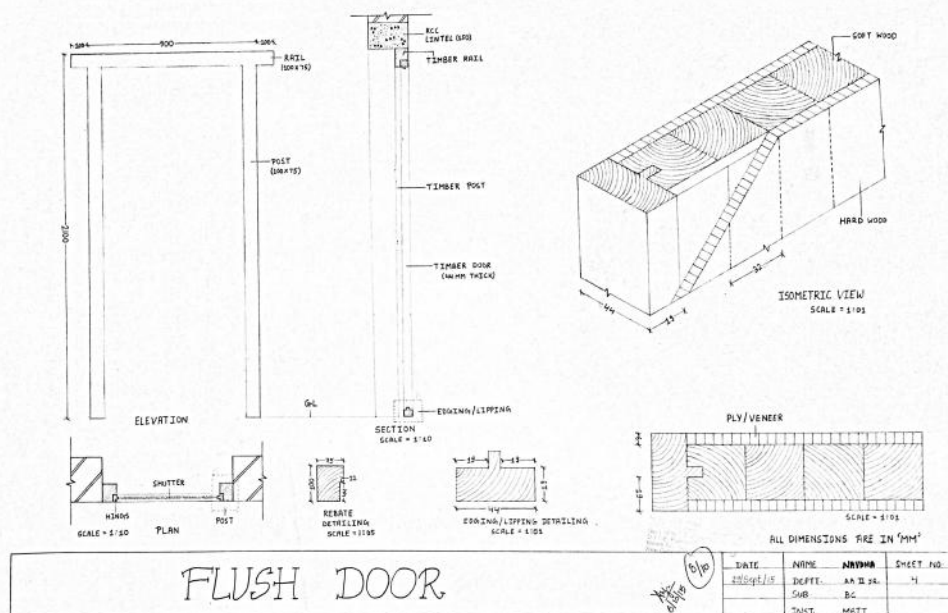
collapsible door mechanism

this sheet illustrates the design of a collapsible door, often utilized for security and space-saving in wider openings. the drawing includes an elevation showing the door in its folded state, a plan view, and an isometric view to visualize its operation. detailed sections (from 'a' to 'e') highlight the construction of the top and bottom tracks, vertical members, bracing, and the wheel mechanism, showcasing an understanding of complex mechanical closures.



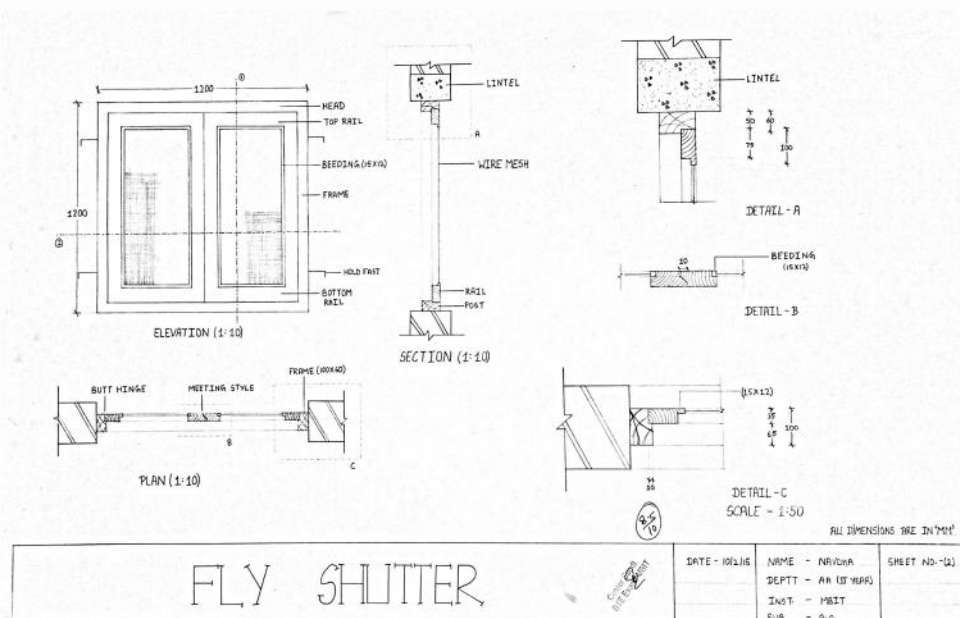
flush door design

this drawing illustrates the design of a flush door, a versatile and widely used door type. the sheet includes an elevation, a detailed section through the door and frame, and a plan view showing its installation. enlarged details emphasize the construction of the timber door with its edging/lipping and ply/veneer facing, as well as the precise rebate and edging details of the frame. this design reflects knowledge of modern timber door construction and finishing.



fly shutter design

this sheet illustrates a detailed design for a fly shutter, emphasizing both its functional and construction aspects. it includes comprehensive views such as an elevation, a section cut, and a plan, alongside enlarged details that highlight the intricate joinery, bedding, and the integration of wire mesh. this drawing showcases a strong understanding of traditional joinery techniques and practical solutions for ventilation and insect control in building openings.



Contemporary Residential Home

Architectural Design Brief:

This residential design embodies sophistication and dynamism, beautifully reflecting contemporary architectural sensibilities. With a strong emphasis on spatial zoning, indoor-outdoor flow, and lifestyle-oriented functionality, it inspires a harmonious living experience. Organized across two levels—the Ground Floor and the First Floor — each space is crafted with intent, fostering a thoughtful interplay of private, semi-private, and public areas.

Ground Floor Plan Highlights:

Entry & Pools: The entry sequence is dramatic, flanked by two shallow pools (Pool 1 & Pool 2, 300mm deep), offering a cooling and aesthetic transition into the home.

Zoning: The plan is defined by angular, non-orthogonal geometries that guide movement and create interesting visual corridors.

Internal Court & Outdoor Living: A central internal court forms the heart of the home, connecting the living, dining, and media rooms while allowing daylight penetration and cross-ventilation.

Three Pools: The inclusion of Pool 3 adjacent to outdoor living and patio spaces reinforces the connection between water, leisure, and landscape.

Functional Spaces: The garage, lift, laundry, and kitchen are efficiently placed for easy access and serviceability.

Flexible Living Spaces: Multiple living zones (indoor and outdoor) support different modes of gathering and relaxation.

First Floor Plan Highlights:

Private Zones: Dedicated bedroom wings enhance privacy, with two master suites, each having walk-in closets (WICs) and ensuite baths, strategically placed to overlook outdoor spaces.

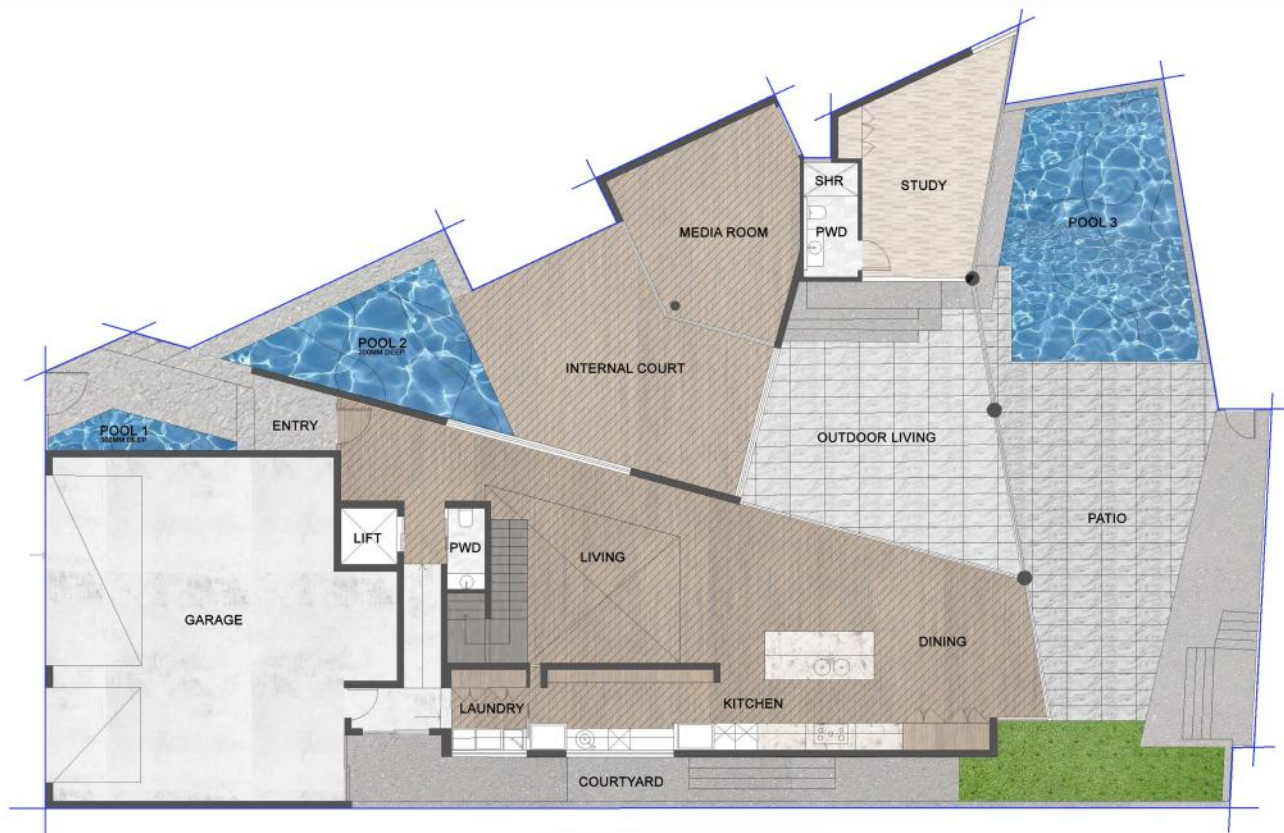
Shared Living Space: A first-floor living area acts as a transition node, linking the master suites and other bedrooms.

Balconies & Views: Well-placed balconies allow outdoor extensions and visual connectivity to the ground-level features like the pool and patio.

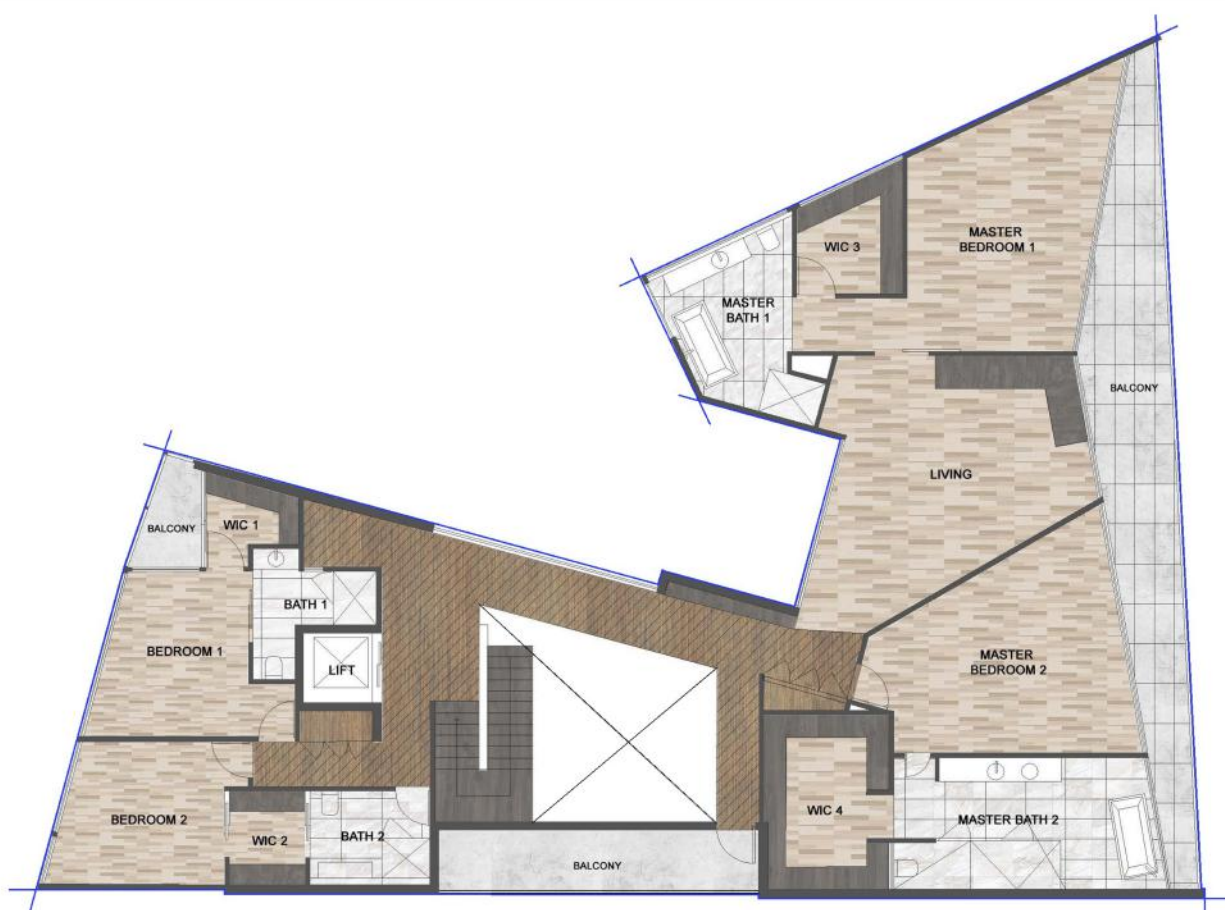
Vertical Circulation: A central lift and stair core ensures seamless access between floors, ideal for multi-generational or accessible living.

Architectural Intent:

The overall design prioritizes fluid circulation, visual openness, and environmental integration. The interplay of angled walls, natural light, and water elements offers a luxurious yet livable home environment. The planning reflects a balance of form and function, promoting modern family living with generous indoor and outdoor interactions.



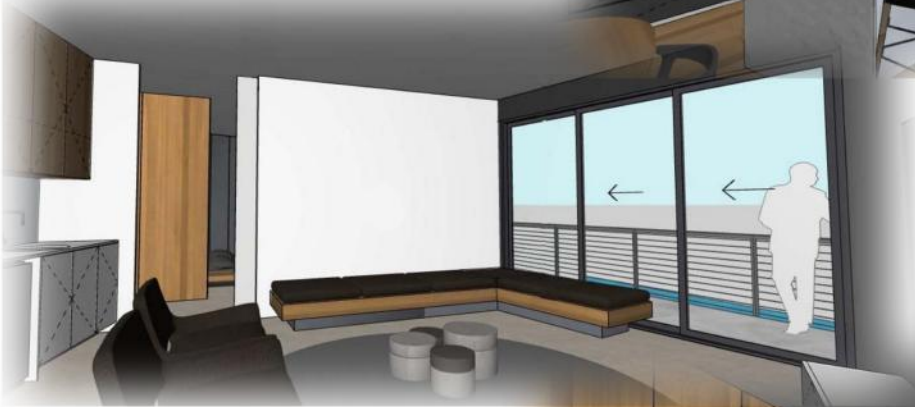
ground floor plan



first floor plan



1. kitchen interior view



2. living room interior view



3. study interior view



4. bed room interior view



5. bathroom interior view



exterior view - 1



exterior view - 2

05

primary school

a primary school is an educational establishment offering early childhood education to children between the ages of 3-5, prior to the commencement of compulsory education.

design overview-

Typology: Educational

Scope: Ground + First Floor Planning

This project presents the architectural design for a primary school focused on functionality, flow, and a student-friendly environment.

The ground floor features essential administrative areas including a reception, principal's office, medical room, and staff support zones, along with a multipurpose room, library, café, and resource room—encouraging holistic development.

The first floor houses six well-ventilated classrooms organized around a central open atrium, with breakout spaces labeled as “flying carpets for sitting” to promote informal learning and interaction.

Natural light, accessibility, and spatial clarity were prioritized throughout the layout to create a nurturing and dynamic learning atmosphere.

color and mood-

age 05-14 : reject black, grey, brown - dull colors.

age 05-08 : like red, orange, yellow, violet - fun bright colors.

age 09-10 : like red, orange, green, blue - fun bright colors.

age upto 14 : like blue, ultramarine, orange - fun bright colors.

aim & requirement -

multipurpose room

reception + waiting

entrance/ exit of building - 3

staircase with slide - 2

sitting area - 2

principal + pa's cabin + waiting

medical room

administrative office

café

kitchen + pantry

resource room

shop

common/guest toilet

library

open terrace

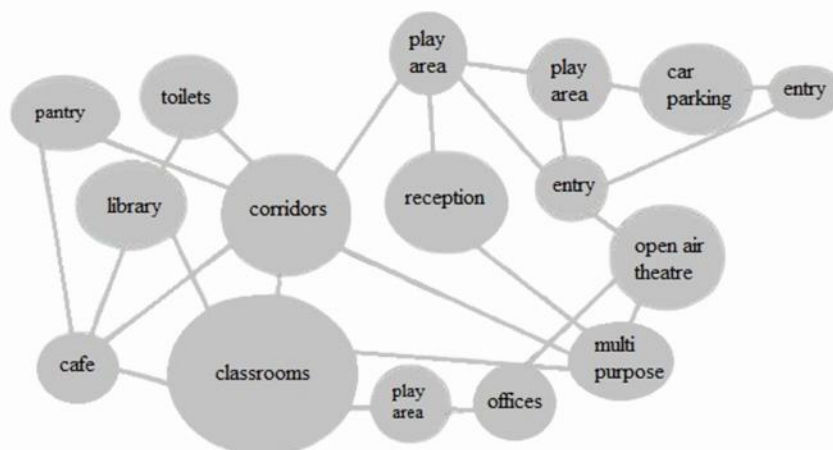
staff room + toilet

water tank space - 2

classroom - 6

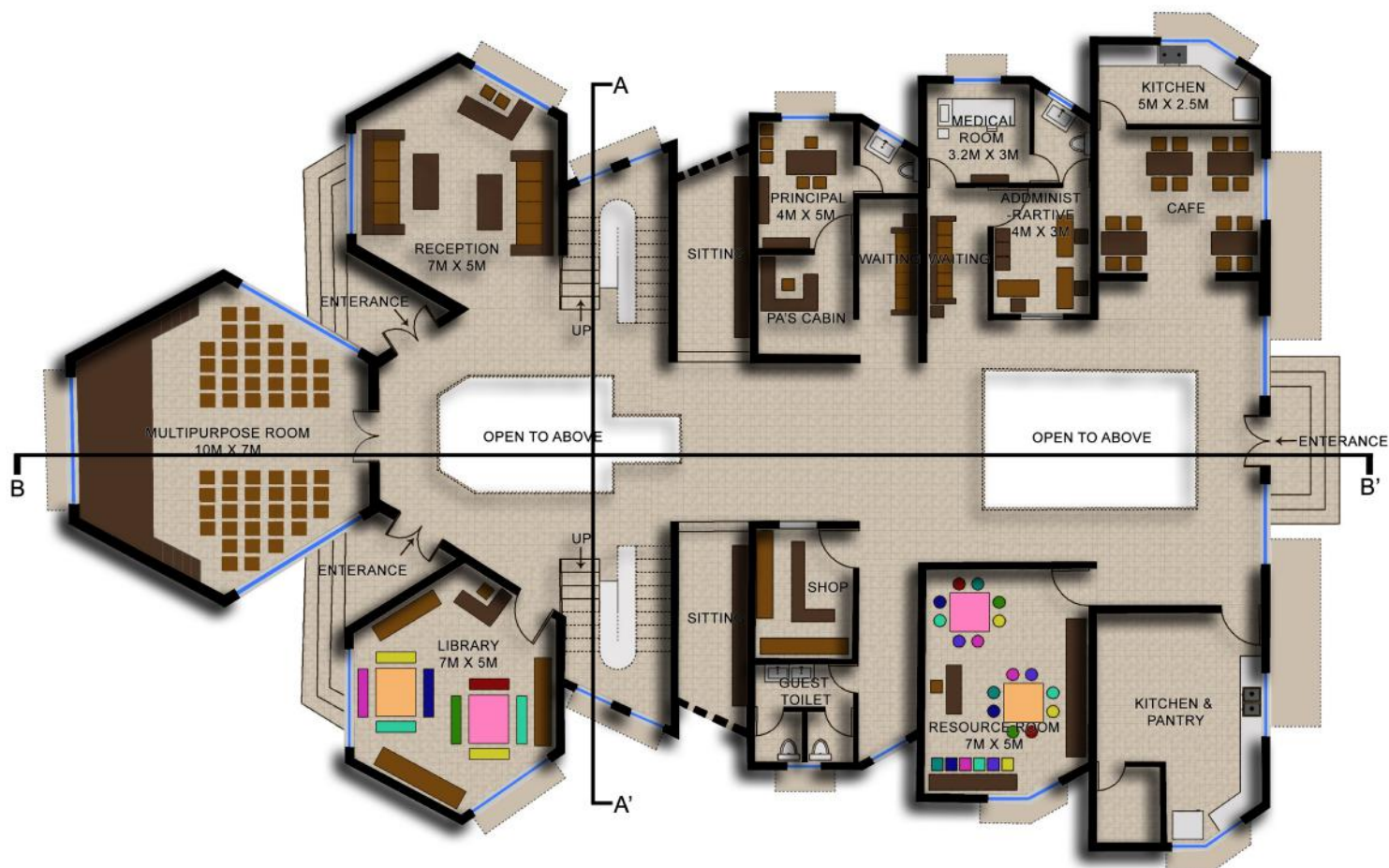
girl's loo

boy's loo

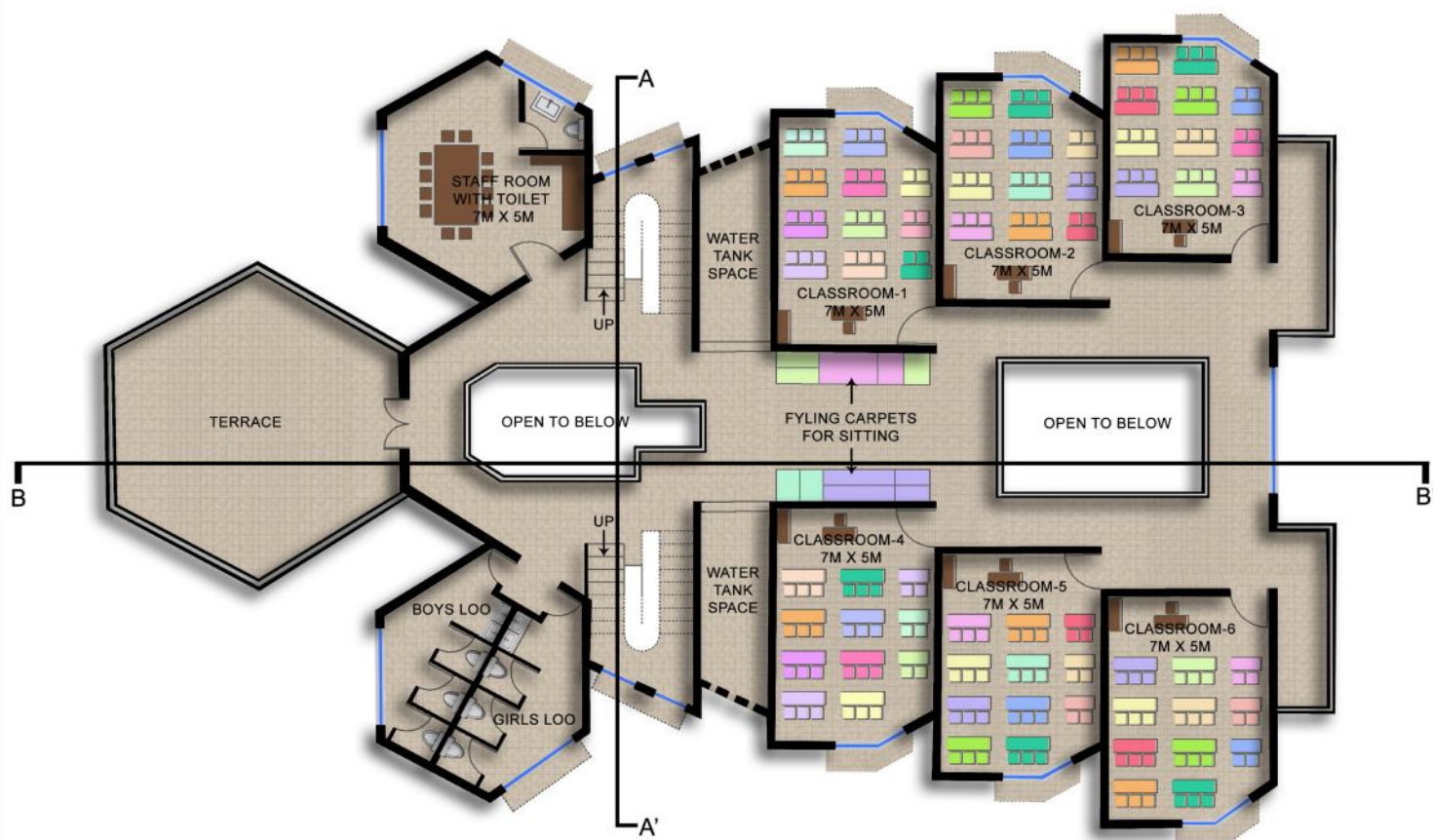


tools used-

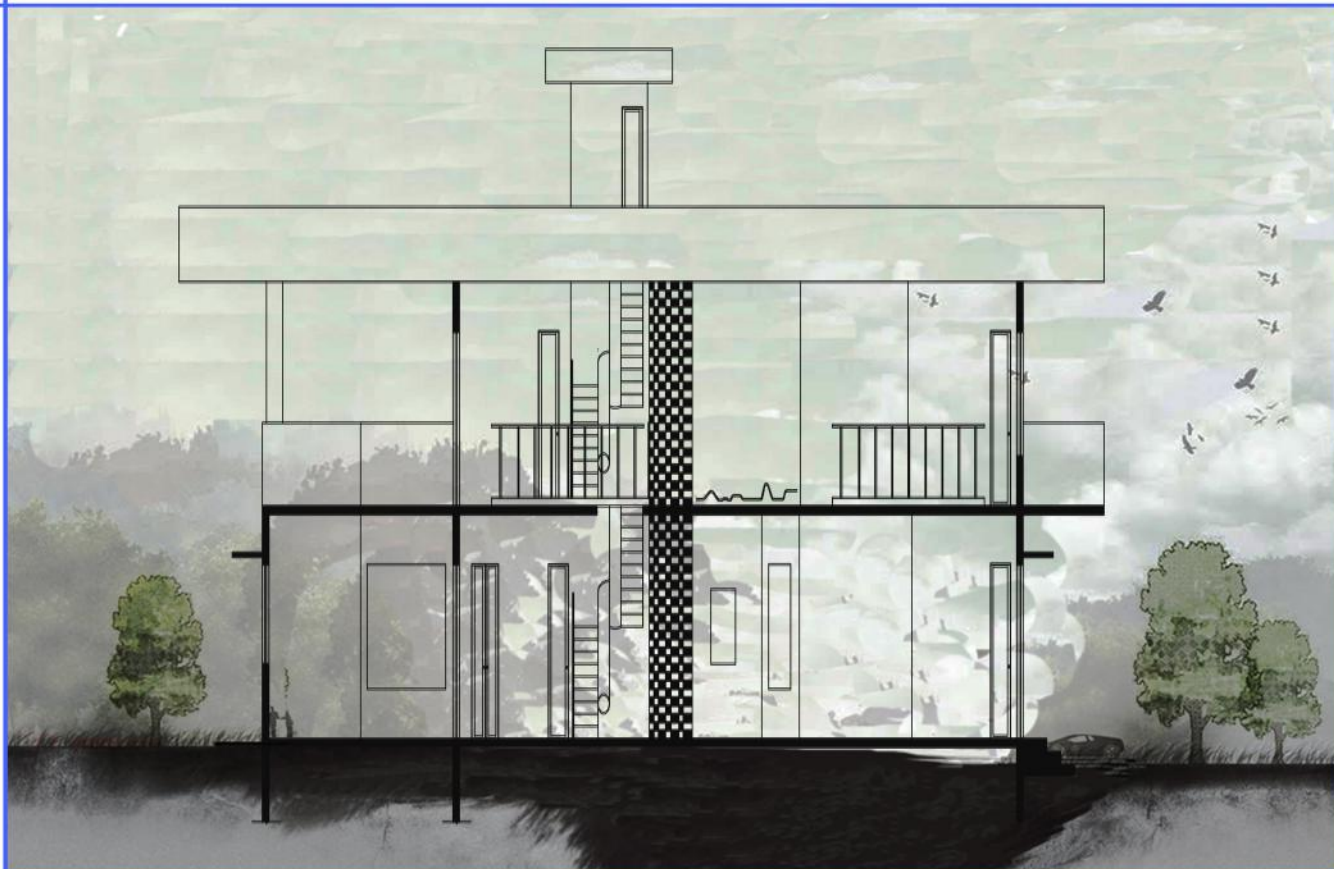
AutoCAD + google sketchup + photoshop



ground floor plan



first floor plan



horizontal building section



primary school view -1



primary school view -2

design elements



Flying Carpet Furniture – Corridor Seating

Inspired by playful forms, the “Flying Carpet” furniture integrates seating and lounging into the school corridor, creating informal learning and reading zones. This fluid wooden structure encourages interaction, comfort, and curiosity, turning transitional spaces into vibrant extensions of the classroom.



Staircase with Slide - Playful Circulation

Combining function with fun, the staircase is paired with a stainless-steel slide to offer an alternative, engaging route between floors. This playful intervention encourages movement, reduces transition stress, and brings joy into everyday school routines—making circulation an exciting part of learning.



06

nursing home

a nursing home, as a building, is an institution however, it is important not to think of it as such. instead, it should be regarded as a home, a community, and a workplace. it should naturally be first and foremost a home to its residents, but as much a workplace for the nursing staff.

concept-

nursing home buildings should never lack functionality in its formation thus, the concept is "function follows form".

tools used-

google sketchup | photoshop | AutoCAD

aim & requirement -

opd (4) – 3000 x 5000
 space for stretcher and wheelchair – 2000 x 5000
 lift (2) – 2000 x 3000
 pathology – 3000 x 3000
 women toilet – 4000 x 2515
 men toilet – 2870 x 2770
 disabled toilet – 2000 x 2000
 cafeteria + pantry – 4000 x 5000
 chemist – 3000 x 5000
 staircase – 7115 x 4230
 reception and waiting – 6000 x 5000
 corridor – 2000mm wide

floor 1

operation theater – 5000 x 5000
 pre operation theater – 3000 x 5000
 changing room – 3000 x 5000
 lift (2) – 2000 x 3000
 radiology – 4000 x 5000
 accountant room – 3000 x 5000
 linen and general store – 4215 x 7115
 electrical room – 3000 x 5000
 physiotherapy – 4000 x 5000
 staircase – 7115 x 4230
 equipment store – 3000 x 5000
 i.c.u – 3000 x 5000
 labour room – 3000 x 5000
 corridor – 2000mm wide

floor 2

general ward (2) – 5000 x 5000
 single ward (4) – 3000 x 5000
 lift (2) – 2000 x 3000
 double ward (3) – 4000 x 5000
 nursing station – 3000 x 5000
 staircase – 7115 x 4230

floor 3

general ward (2) – 5000 x 5000
 meeting room – 3000 x 5000
 office – 3000 x 5000
 lift (2) – 2000 x 3000
 in charge room – 3000 x 5000
 double ward (3) – 4000 x 5000
 single ward (1) – 3000 x 5000
 nursing station – 3000 x 5000
 staircase – 7115 x 4230

floor 4



floor 1

design highlights-

"Designing with Dignity, Accessibility & Efficiency"

- centralized wayfinding
- barrier-free circulation
- café & pantry for comfort
- patient-centric opd layout
- integrated pathology & chemist



floor 2

design highlights-

"Designing Critical Care with Clarity & Control"

- clinical workflow optimization
- sterile ot suite & icu placement
- efficient equipment & linen storage
- zoned for emergency & critical care
- lift core centrally placed for access

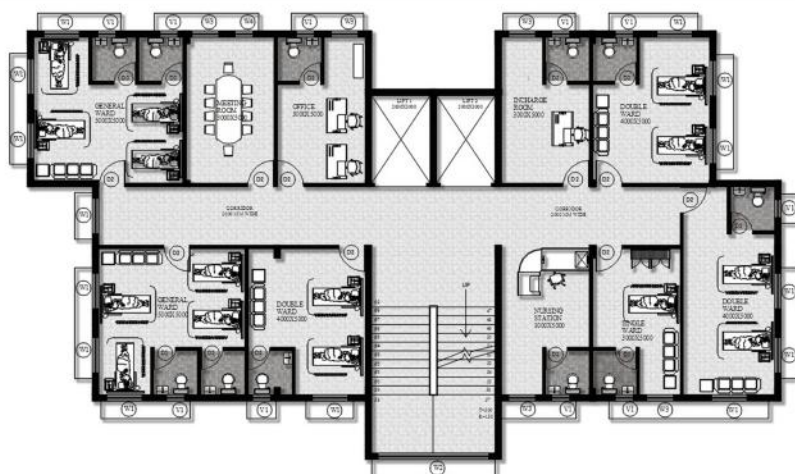


floor 3

design highlights-

"Designing for Comfort, Care & Observation"

- variety of patient rooms (general, single, double).
- optimized natural light & cross ventilation.
- central lift & stairwell core for accessibility.
- 2000mm-wide corridor for safe, easy movement.
- attached toilets for every ward cluster.
- nursing station with full visual command.



floor 4

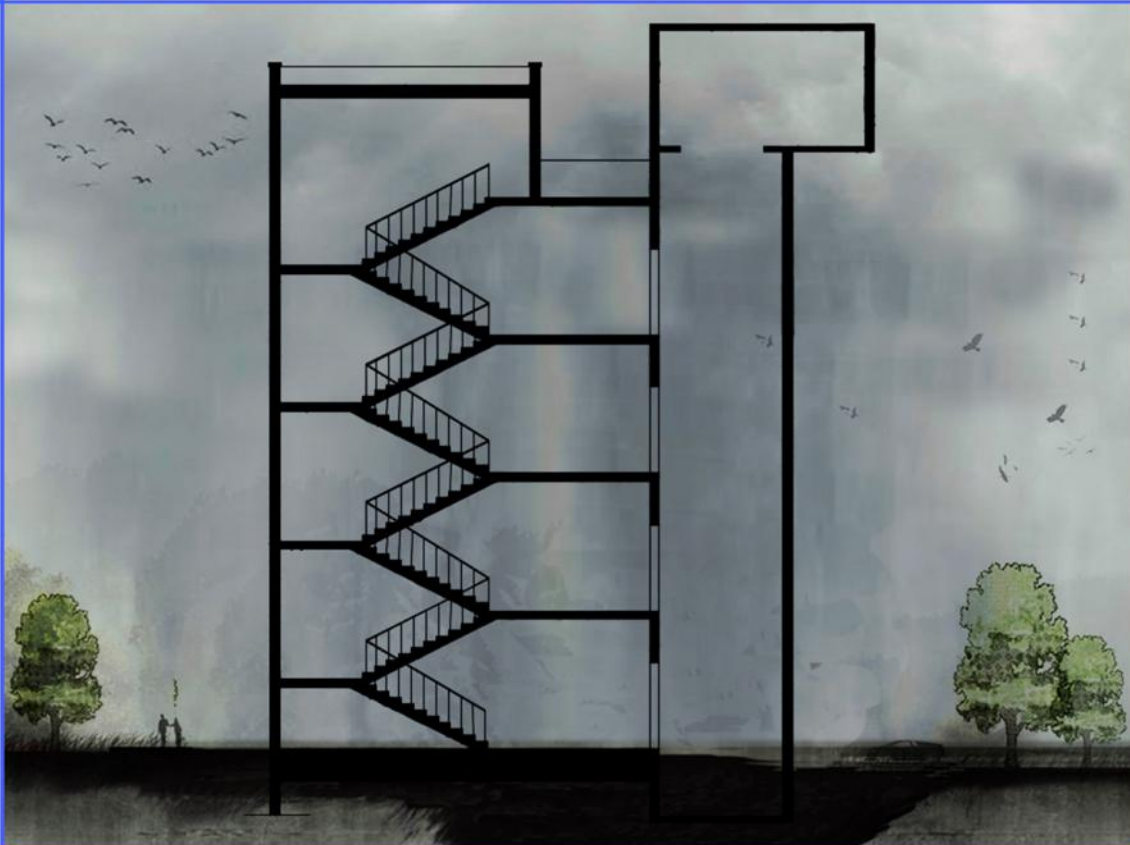
design highlights-

"Blending Patient Care with Administrative Efficiency"

- nursing station with efficient circulation access.
- balanced patient layout: general, single & double wards.
- natural light optimization through window rhythm.
- private sanitary facilities for each ward cluster.
- integrated admin core: office, meeting, incharge room.
- 2000mm-wide corridors ensuring ease of movement.



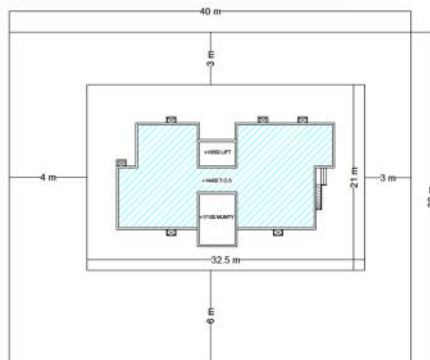
horizontal building section



vertical building section

These sections not only convey the structural and spatial logic of the design but also reflect the human-centric approach of the nursing home – prioritizing movement ease, visibility, and environmental quality.

site plan, site information and site section



site information -

total site area = $40 \times 30 = 1200\text{m}^2$
 covered area @ 25% = 299.27m^2
 permissible covered area = 300m^2

entrance slope = ± 150
 plinth level of building = 900mm
 main entrance and exit = 4000mm
 building height = 17650
 guard room = 1000m^2

pathway = 3200mm wide
 material = stone paving with grass in between for water absorption.
 landscaping = deciduous trees to serve purpose of both winter and summer.

parking details -

no. of vehicles = $15 + 1$ (for disabled)
 area required for 1 vehicle (car) parking = $4.8\text{m} \times 2.8\text{m}$

total parking area = $16 \times (4.8 \times 2.8)\text{m}$
 = 161.28m^2 (covered area)

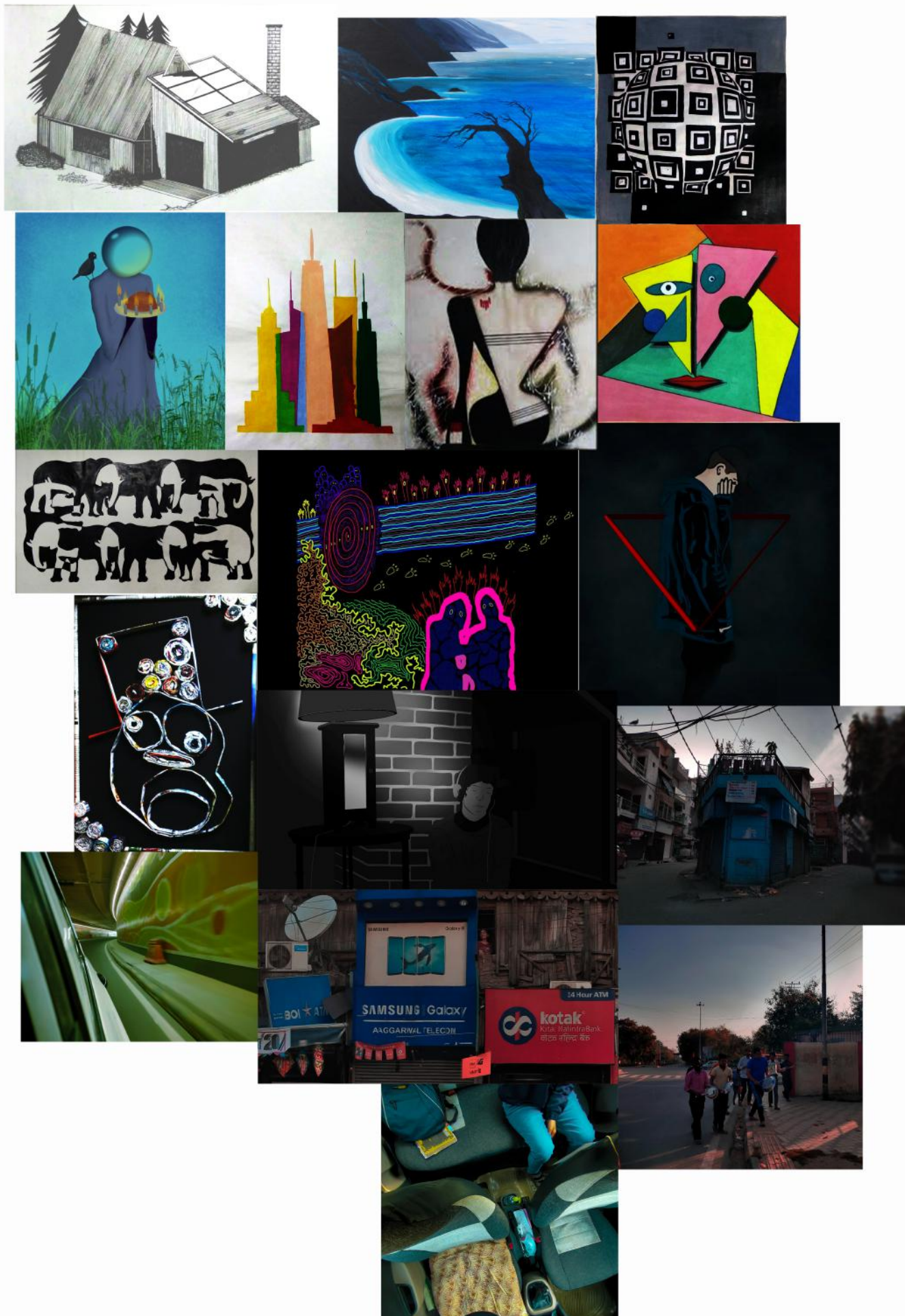
general building information -

total covered area on all floors = 299.27m^2

tread and riser all over building-
 tread = 300mm
 riser = 150mm



artworks and photography



business card design

