

BIM PORTFOLIO



NUBI SHAS

ARCHITECT

ABOUT ME

Hi, I'm an Architecture Graduate, driven by a deep passion for design, technology, and how the built environment can positively impact lives. This portfolio reflects my journey through the world of architecture, engineering, and construction where imagination meets precision, and every detail matters. I've developed skills in 3D modeling, clash detection, and 4D scheduling. But beyond software, my true goal is to keep learning, growing, and evolving as a designer, blending creativity with technology to shape thoughtful, sustainable, and future-ready spaces.

LANGUAGES

English, Hindi, Malayalam, Tamil.

CONTACT

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Email : nubishaas@gmail.com

INFO

19/04/2002
India, Kerala
nubishas.netlify.app (Website)
www.linkedin.com/in/nubi-shas (LinkedIn)

SOFTWARE

Autodesk AutoCAD
Autodesk Revit
Naviswork
Dynamo
3ds Max
Fusion 360
SketchUp
Blender
Rhino
Grasshopper
DS Render
Enscape
Lumion
Twinmotion
Adobe Photoshop
Adobe InDesign
Adobe Illustrator
Adobe Animate
Visual Studio Code
Microsoft Office

EDUCATION

- University Of Calicut.
Bachelors Of Architecture.
(2020 - 2025)
- Central Board Of Secondary Education.
Higher Secondary Education.
(2018 - 2020)

WORK EXPERIENCE

- Part Time System Designer
SQUAS Pvt. (JAPAN)
(Sep 2024 - Present)
- Architectural Intern
Qatar Design Consortium. (QATAR)
(Jan 2024 - Jun 2024)

CERTIFICATIONS

- Eduonix Revit Advance
- Microsoft Foundation C# Language
- OpenLearn Design Thinking
- LinkedIn Learning (Generative Design)
(BIM foundation)
(Revit 2025)
- COA Registered

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200-BED HOSPITAL

DESIGN OF A 200-BEDDED MULTISPECIALITY HOSPITAL IN WAYANAD, KERALA

Aim

To design a 200-bedded hospital that is patient-friendly, functionally efficient, and environmentally responsive.

Objectives

- Create an efficient zoning layout for clinical and support functions.
- Enhance patient experience through healing architecture.
- Integrate sustainable and passive design strategies suited for Wayanad's climate.
- Ensure accessibility and wayfinding for all user groups.
- Allow for future expansion and adaptability.

Scope of the Project

- Design of all major hospital departments: OPD, IPD, Emergency, Diagnostics, ICUs, OT complex, etc.
- Integration of support services: labs, pharmacy, administration, parking.
- Inclusion of healing elements like courtyards, daylight, and views.
- Site planning including vehicular and pedestrian circulation.
- Basic MEP zoning and structural approach.

Need for the Project

- Wayanad needs a larger integrated multispeciality hospital.
- Patients often travel to Kochikode or Kannur for advanced treatments.
- Population growth and tourism increase emergency and general health demand.
- The region's geography demands a facility that is responsive to terrain and climate.

SITE AREA:
41 ACER
FSI : 2
FAR : 3
BUILD UP AREA:
6.0 K SQM / 70 K SQM

Orientation

Arrange building wings to capture prevailing monsoon breezes. For example, KTPH's V-shaped plan opens to the north to tap cooling. Align ward blocks east-west where possible to minimize direct sun on patient rooms.

Ventilation

Provide cross-ventilated corridors and operable windows; passive design actively draws fresh air from exterior courtyards into patient rooms, enhancing thermal. High ceilings and open shafts can also use stack effect to pull hot air up and out.



Shading & Roof Form

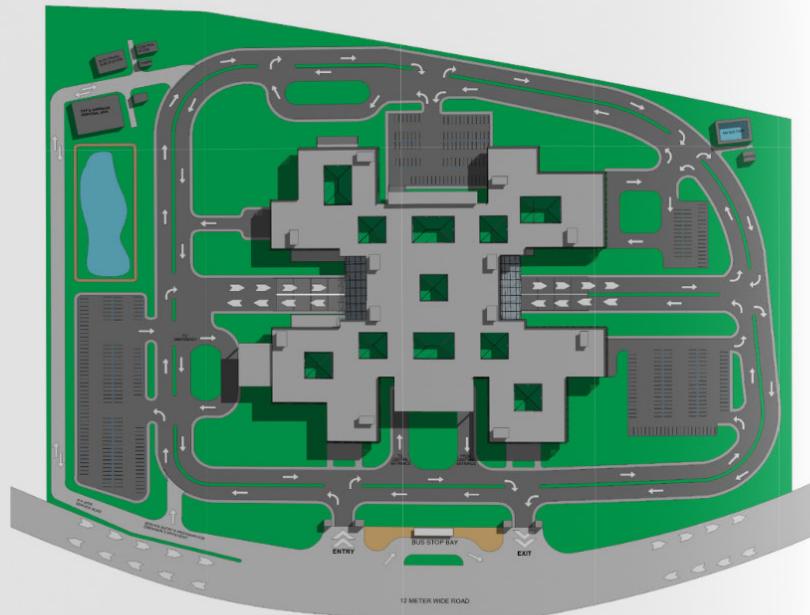
Use steeply pitched, Mangalore-tiled roofs with deep eaves (a Kerala vernacular solution) to shield walls from sun and heavy rain. Incorporate verandas or brise-soleil on southwest facades to admit diffuse light but block direct sun.

Site Integration

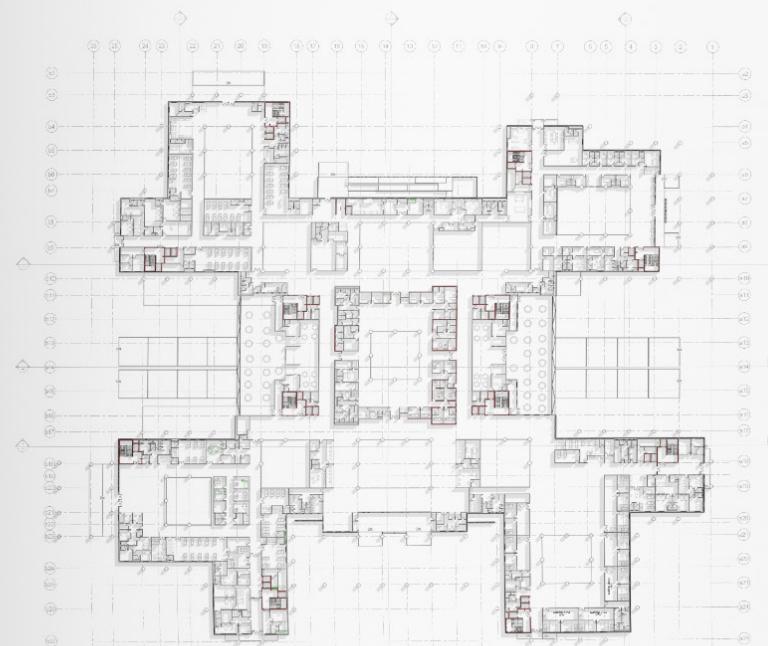
The design of the 200-Bed Multispeciality Hospital is deeply rooted in the contextual fabric of Wayanad, a region known for its undulating terrain, lush greenery, and sensitive ecological character. The site planning approach emphasizes the relationship between the built form and organically adapting to the natural contours rather than overpowering them. This not only reduces the environmental footprint but also allows the architecture to harmoniously blend with the landscape. In essence, the site integration strategy not only responds to the physical and climatic conditions of Wayanad but also aligns with the core objective of healing, affirming that a built environment has a fundamental, sustainable, and empathetic role to both human and ecological needs.



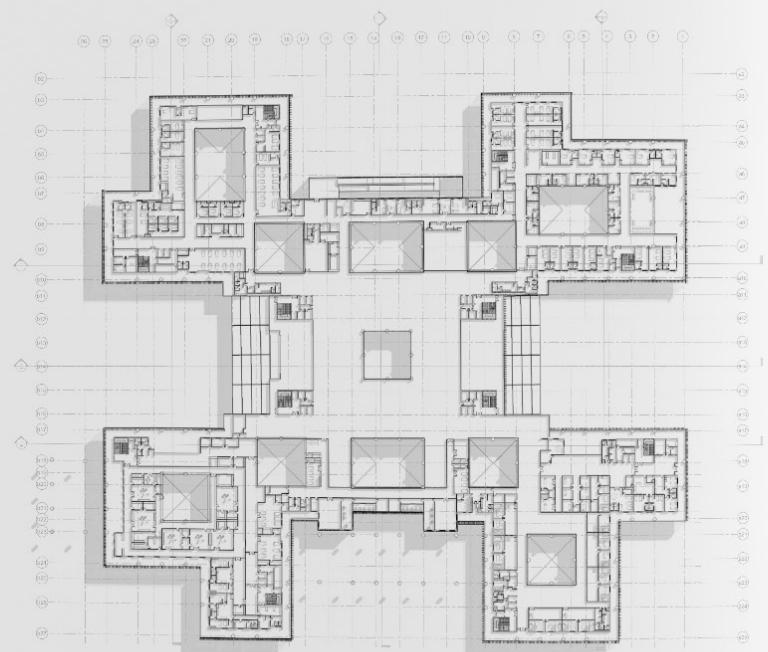
01 Architecture Documentation



MASTER PLAN



GROUND FLOOR



FIRST FLOOR

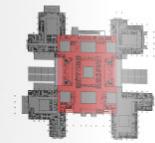


BASEMENT

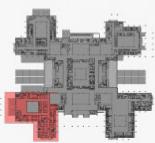
ROOM AREA PLAN



My Room's Name
[List of room names]



ROOM AREA PLAN



CORE AREA

EMERGENCY AREA

ROOM AREA PLAN



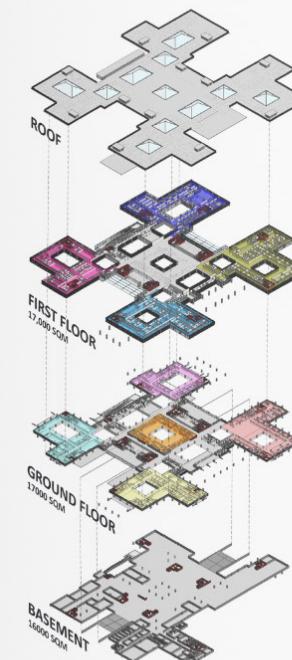
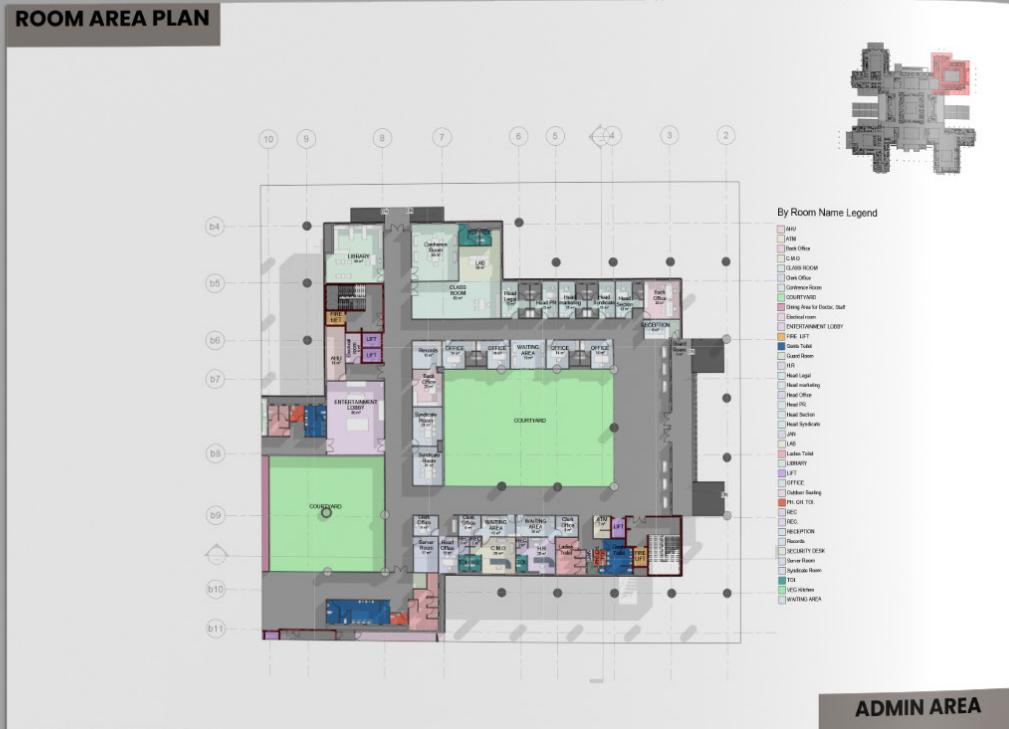
IPD AREA

ROOM AREA PLAN



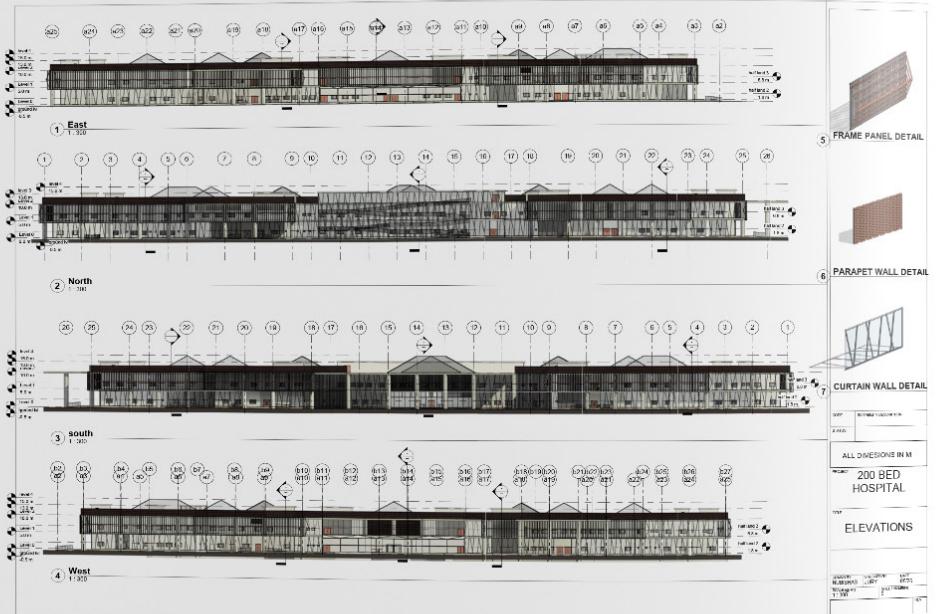
OPD AREA

ROOM AREA PLAN

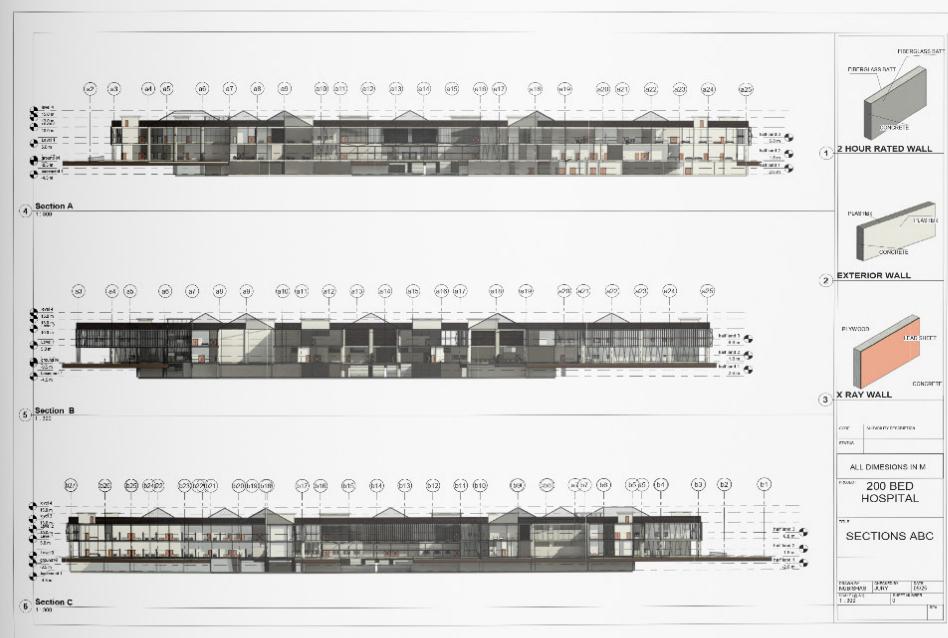


- PRIVET ROOMS
- CONSULTATION ZONE
- CARE UNIT ZONE
- OT ZONE
- ADMIN ZONE
- IN PATIENT ZONE
- DIAGNOSTIC ZONE
- OUT PATIENT ZONE
- EMERGENCY ZONE

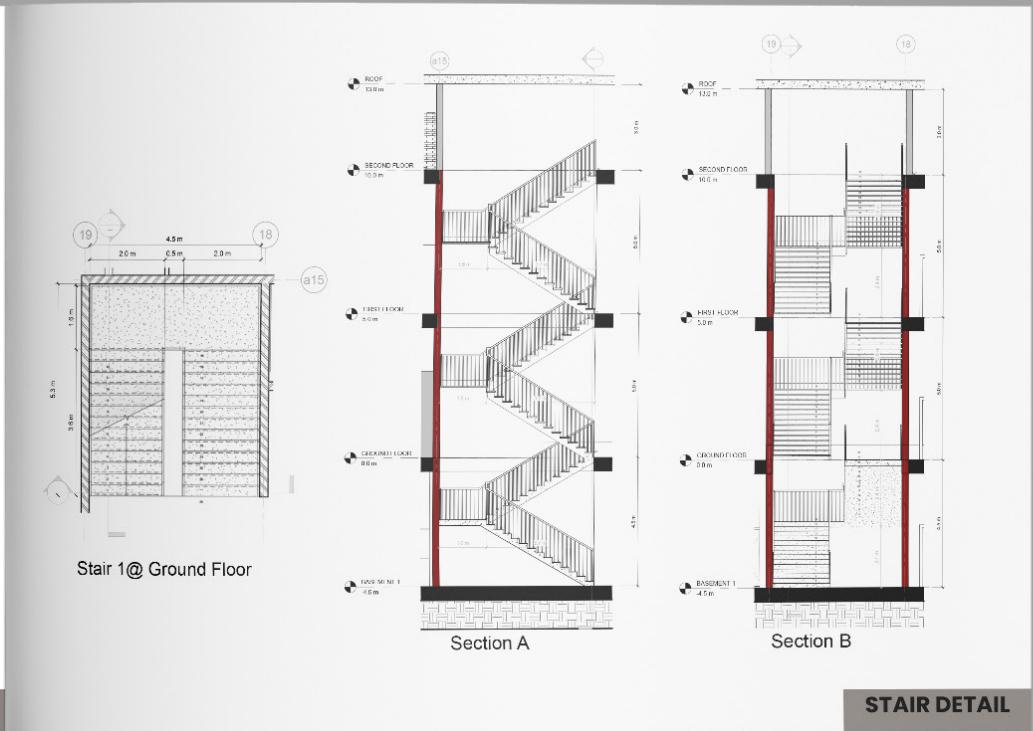
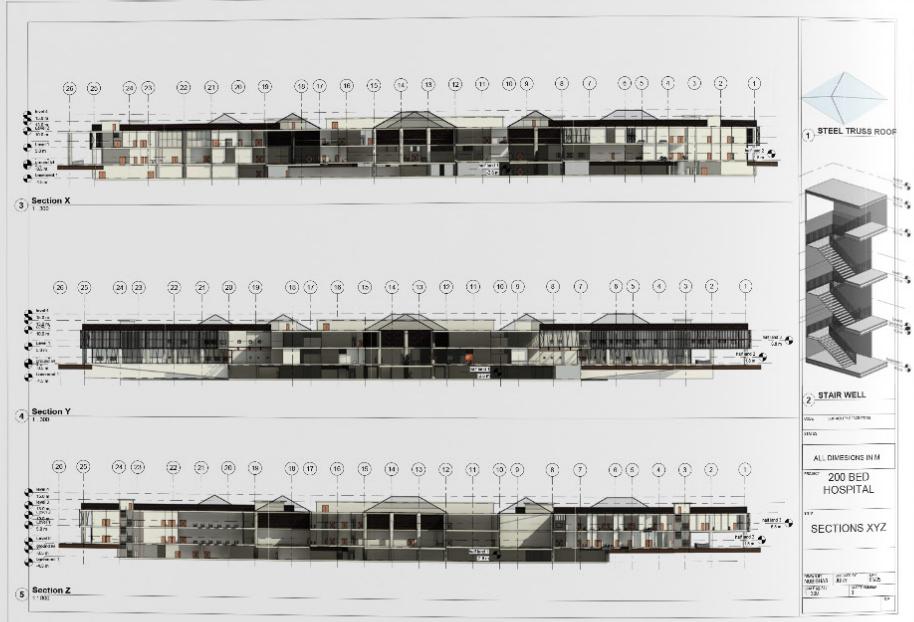
AXONOMETRY

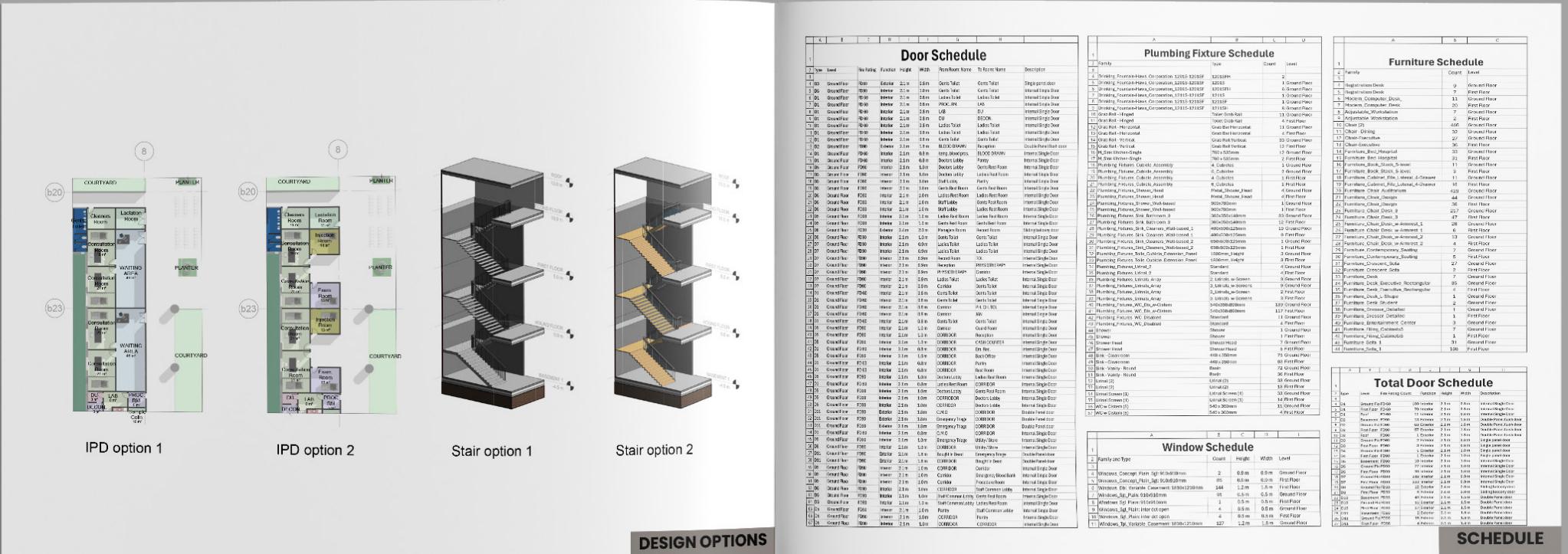


ELEVATION



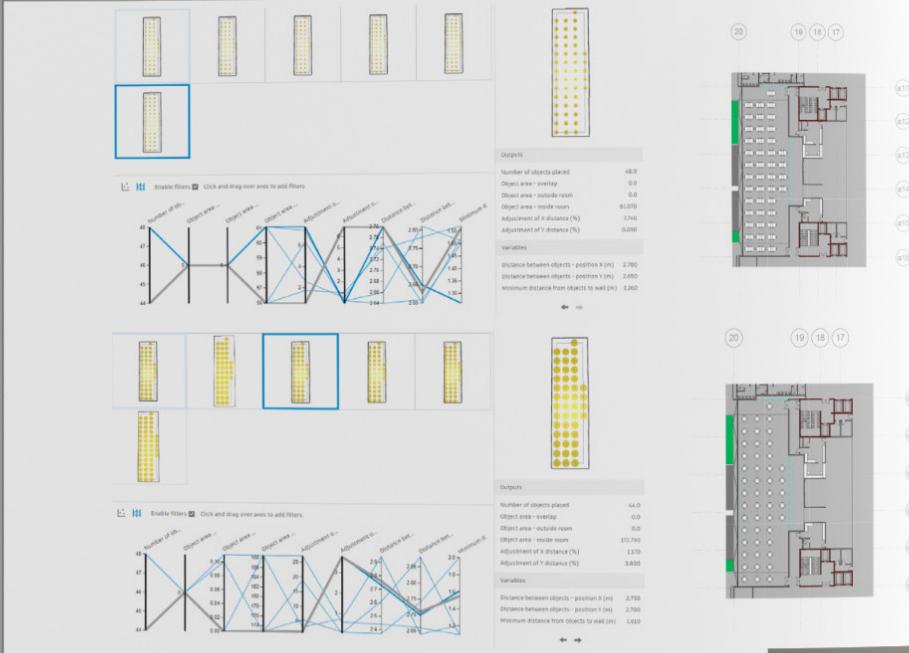
SECTION



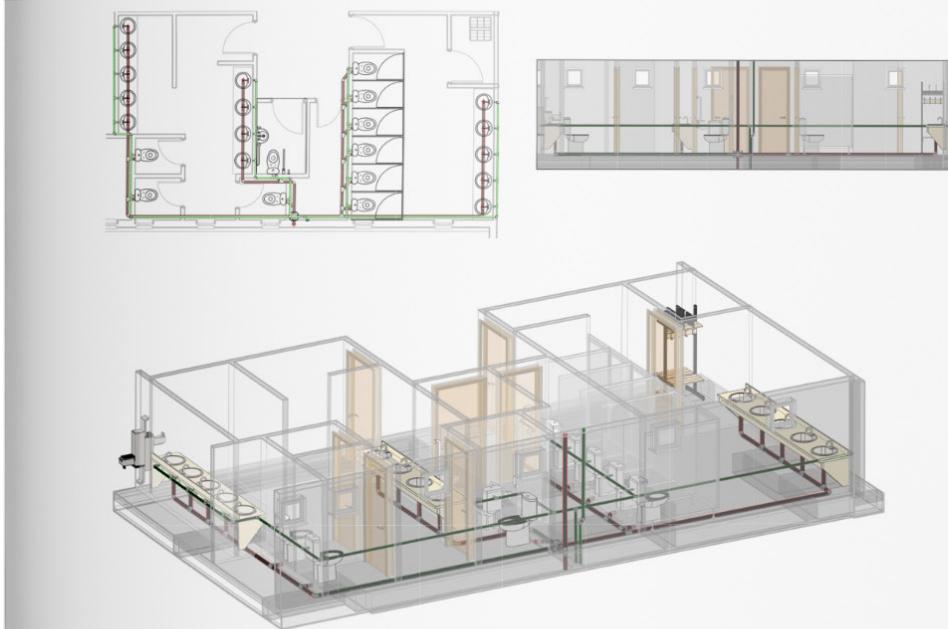


DESIGN OPTIONS

02 GENERATIVE DESIGN



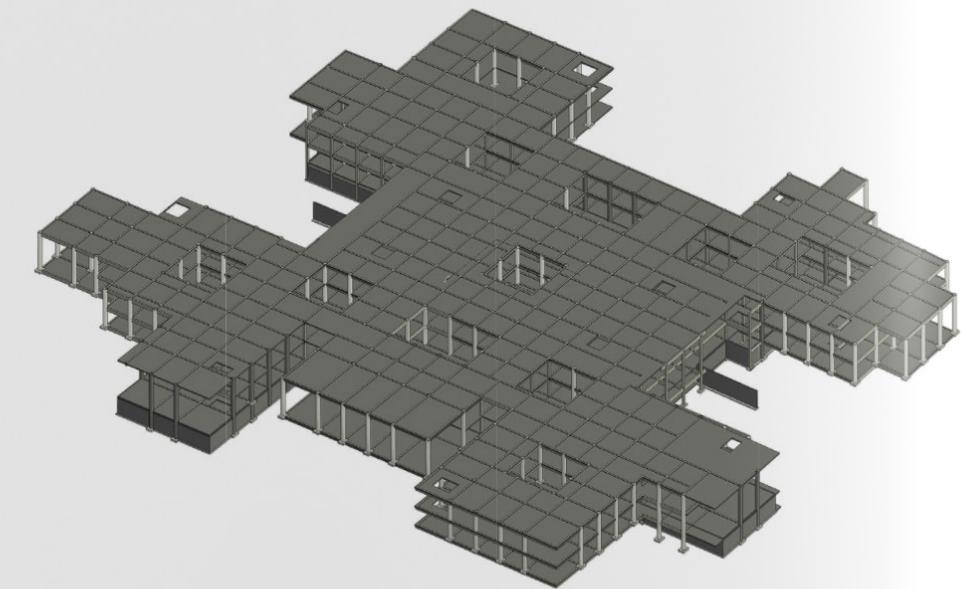
03 PLUMBING MODEL



GENERATIVE DESIGN

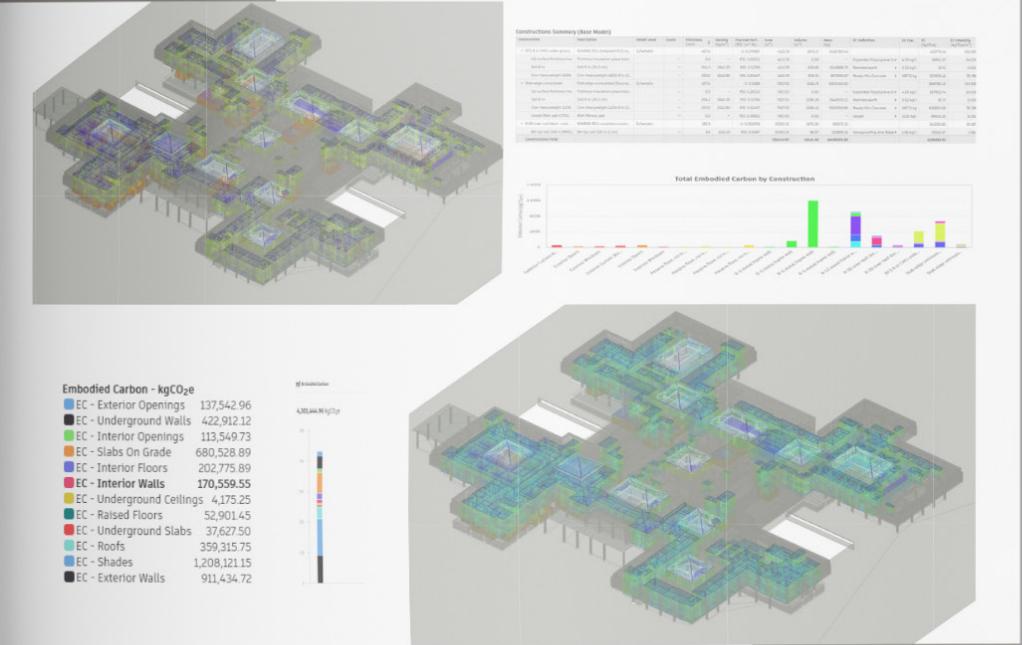
PLUMBING MODEL

04 STRUCTURAL MODEL



STRUCTURAL MODEL

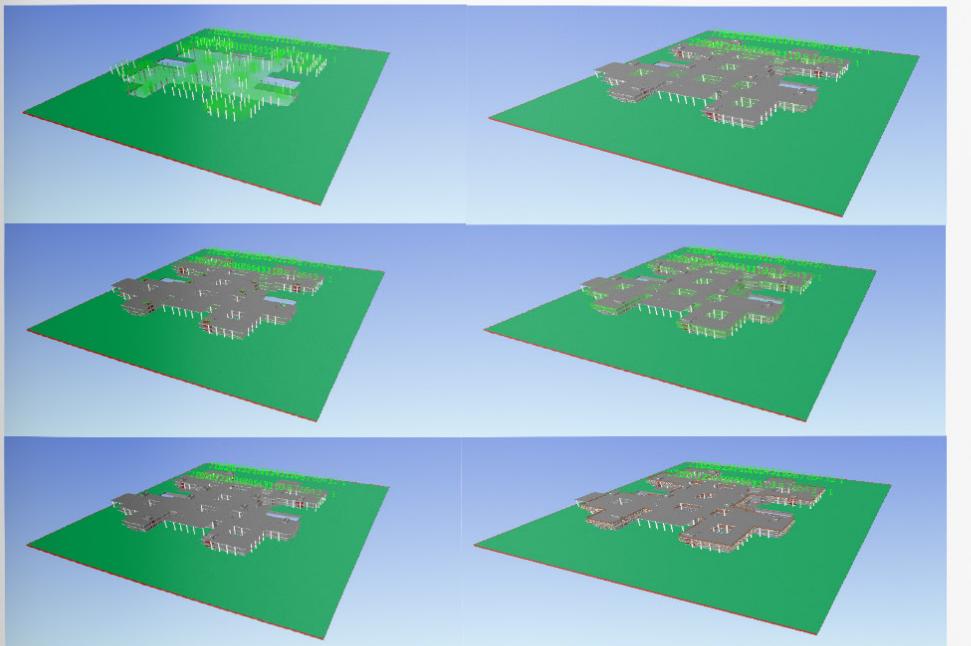
05 ANALYTICAL MODEL



ANALYTICAL MODEL

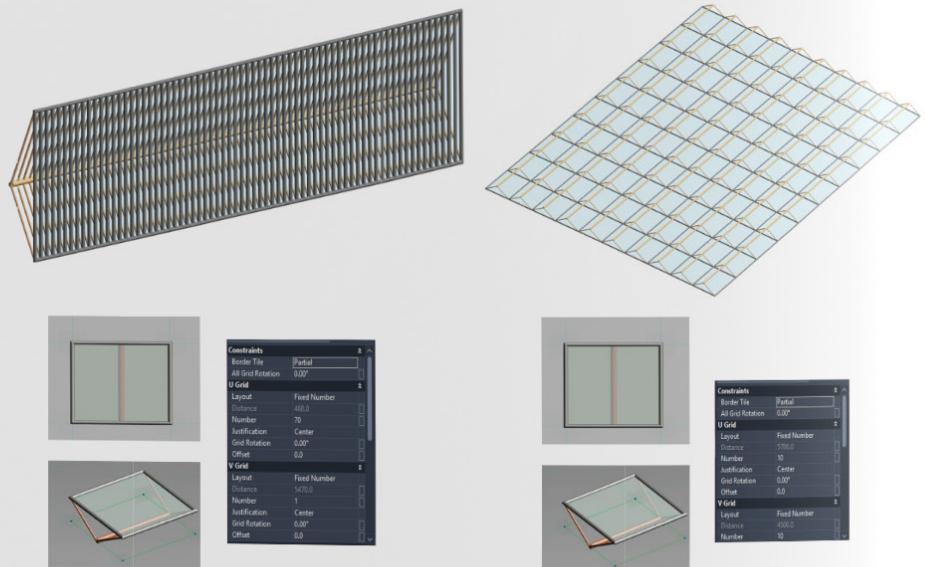
06 NAVISWORK

CLASH REPORT



4D SIMULATION

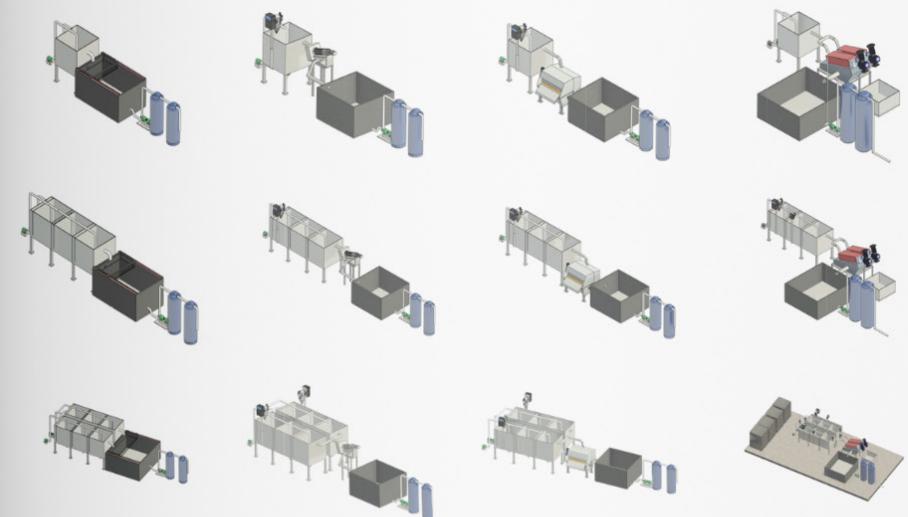
07 ADAPTIVE COMPONENT



ADAPTIVE COMPONENT

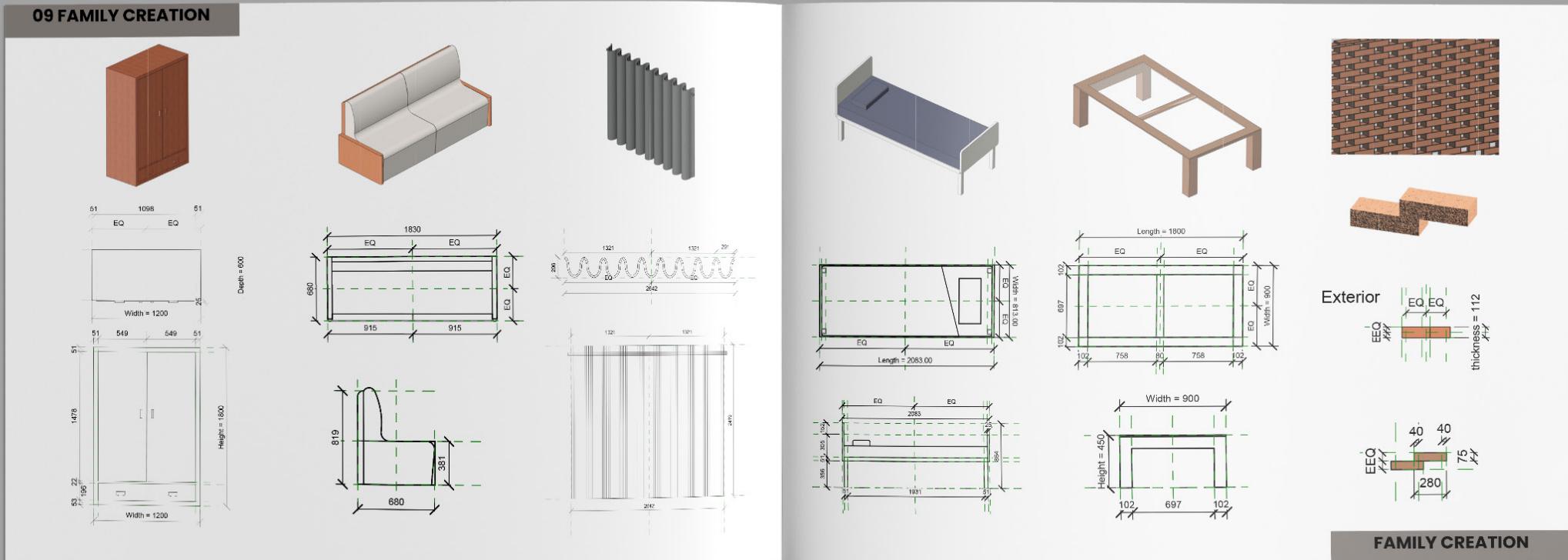
08 SYSTEM DESIGNS

This series of system designs represents modular and scalable water treatment plants developed during my role at Squas Pvt. Ltd. Each model has been carefully designed to address specific stages of water purification, including filtration, softening, reverse osmosis (RO), and storage integration. The systems are tailored for different scales of use from industrial to institutional applications ensuring efficiency, sustainability, and ease of assembly.



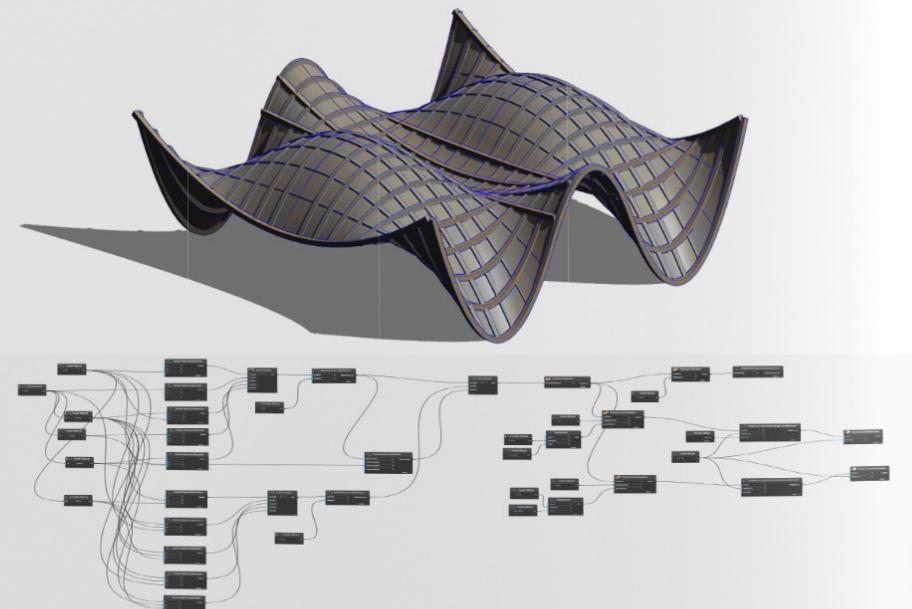
SYSTEM DESIGNS

09 FAMILY CREATION



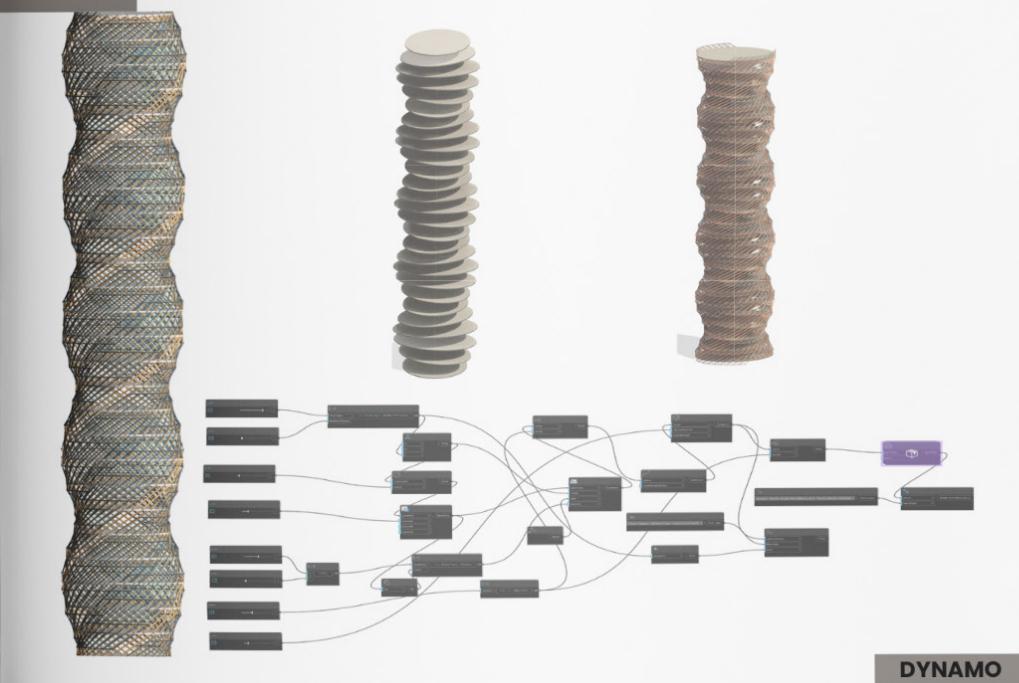
FAMILY CREATION

10 DYNAMO



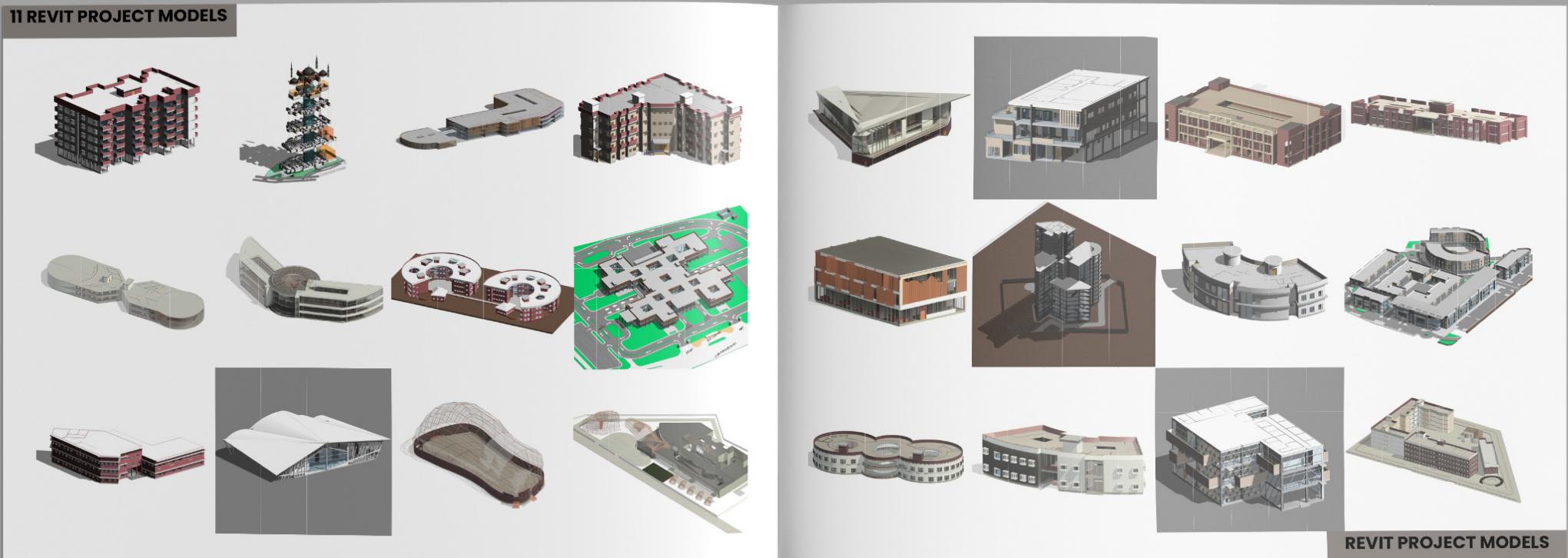
DYNAMO

DYNAMO



DYNAMO

11 REVIT PROJECT MODELS



REVIT PROJECT MODELS

Thank You.

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