

Company Name Confidential - Cupoertino, CA

Ranked in the top five companies of Fortune 500 list of 2020, this company is an American multinational technology company headquartered in Cupertino, California, that designs, develops, and sells consumer electronics, computer software, and online services.

HGA was commissioned to work on the labs in the main building, and later was given the opportunity to work on the office sections as well. Worked with well-known architectural firm on designing the labs, developing details, and 3D models of the space, and worked on mockups of each element for the client to review and approve.

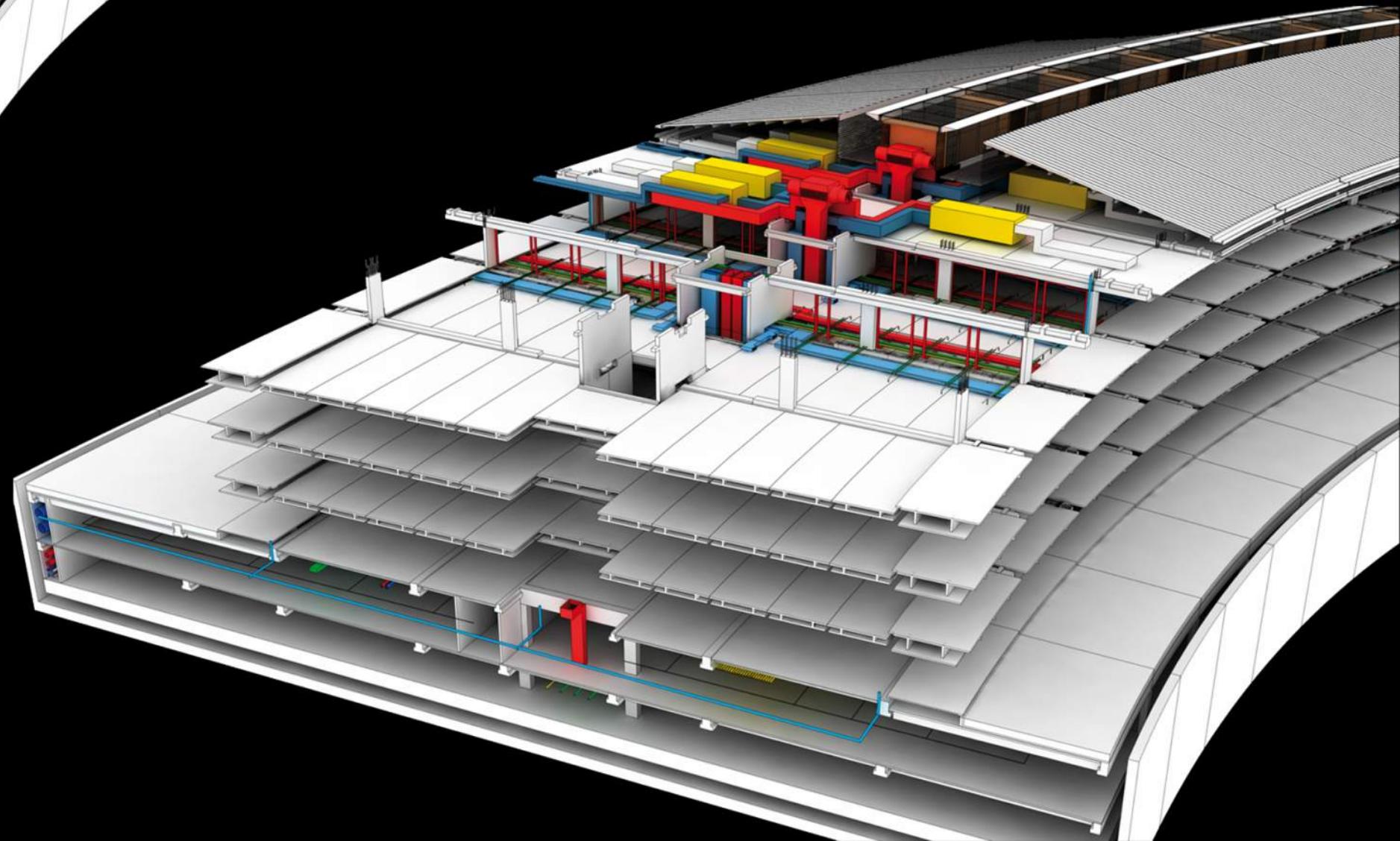
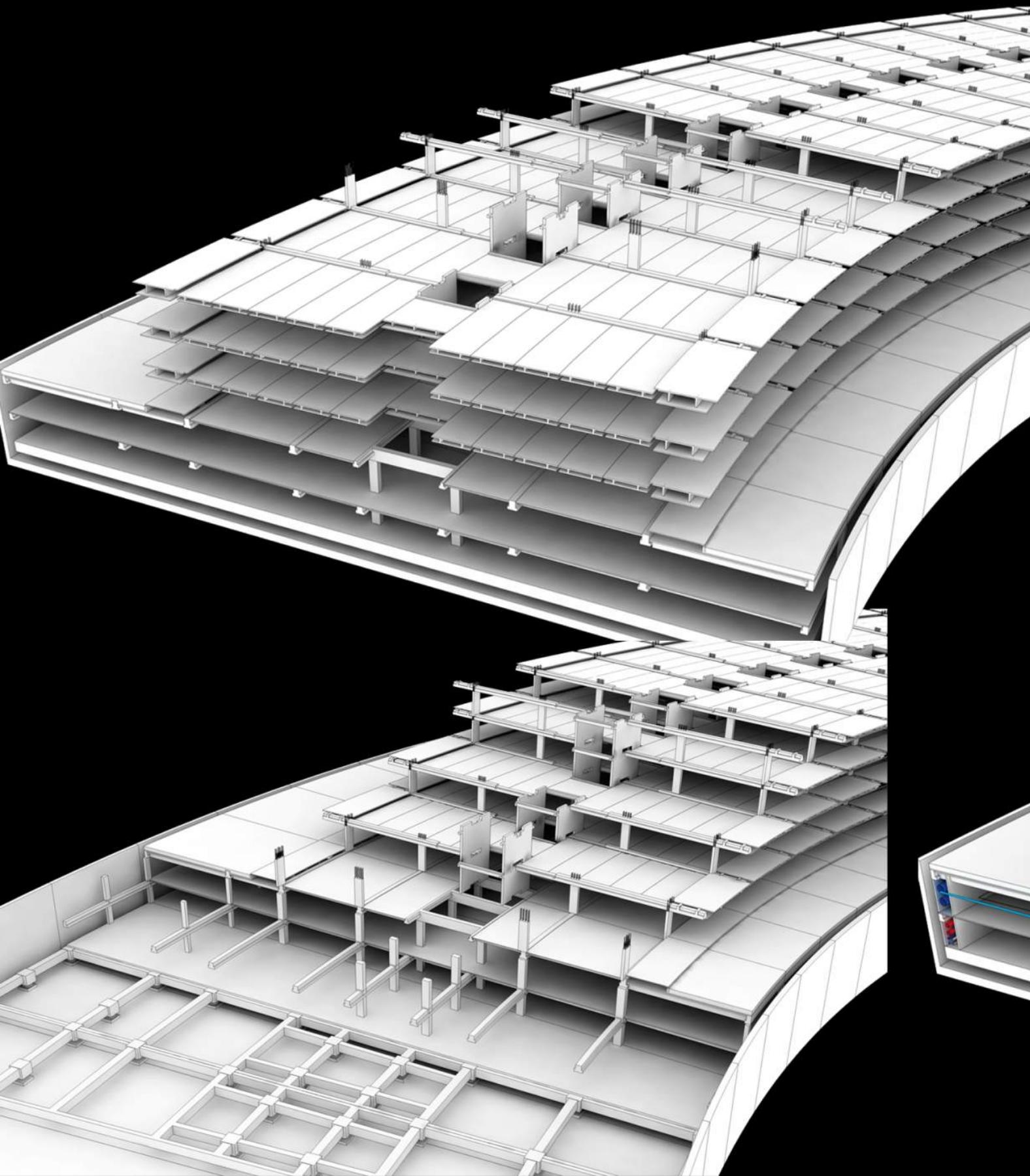
Working with such massive group of contractors, sub-contractors, and the amount of coordination that took place on a regular day was a bit of a challenge, but I was able to adapt to the new environment very quickly. Also, the unique shape of the building made the design and preparing the required construction details harder, but the team was able to overcome that easily.

To be able to keep track of all the meetings, deliverables, and deadlines, I, as the main meeting organizer, had to be very specific in my note-taking and was recognized firm-wide for being detail oriented and organized.

Company Name Confidential - Lab Design

The project started before my involvement with HGA architect. London-based Architectural firm, Foster and Partners as the Design Architect on campus had started the conversation with client on the location of the labs to a degree. HGA Architects was hired to start the lab design project and to collaborate with the Design Architect on the office portion for a cohesive design of the main building.

My involvement was focused on the labs. Along with a group of four designers and engineers, collaborated on preparing the Revit model of the building to assist the two contractors with understanding the project from the construction point of view. This was the first phase of my involvement with this project.

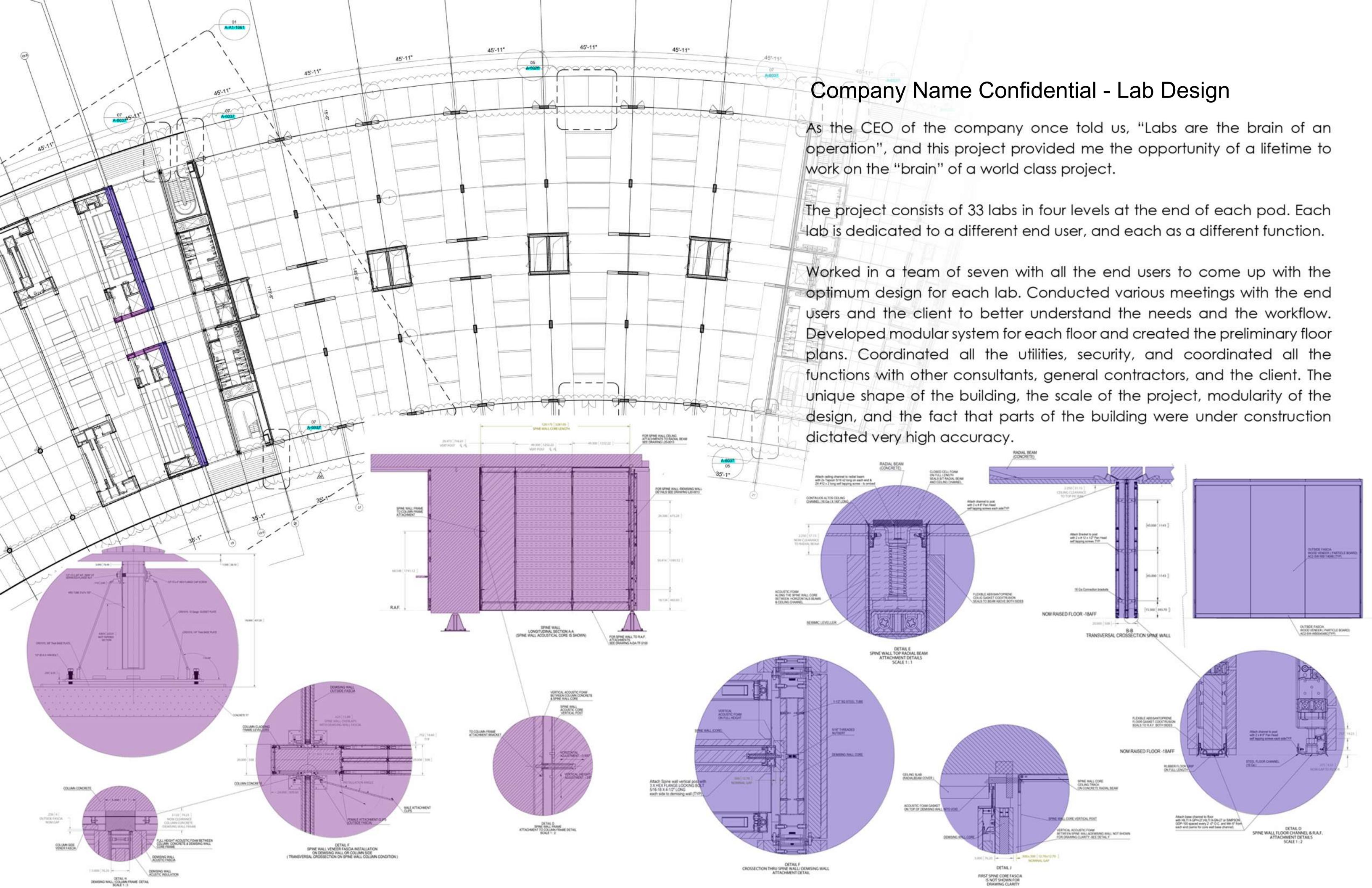


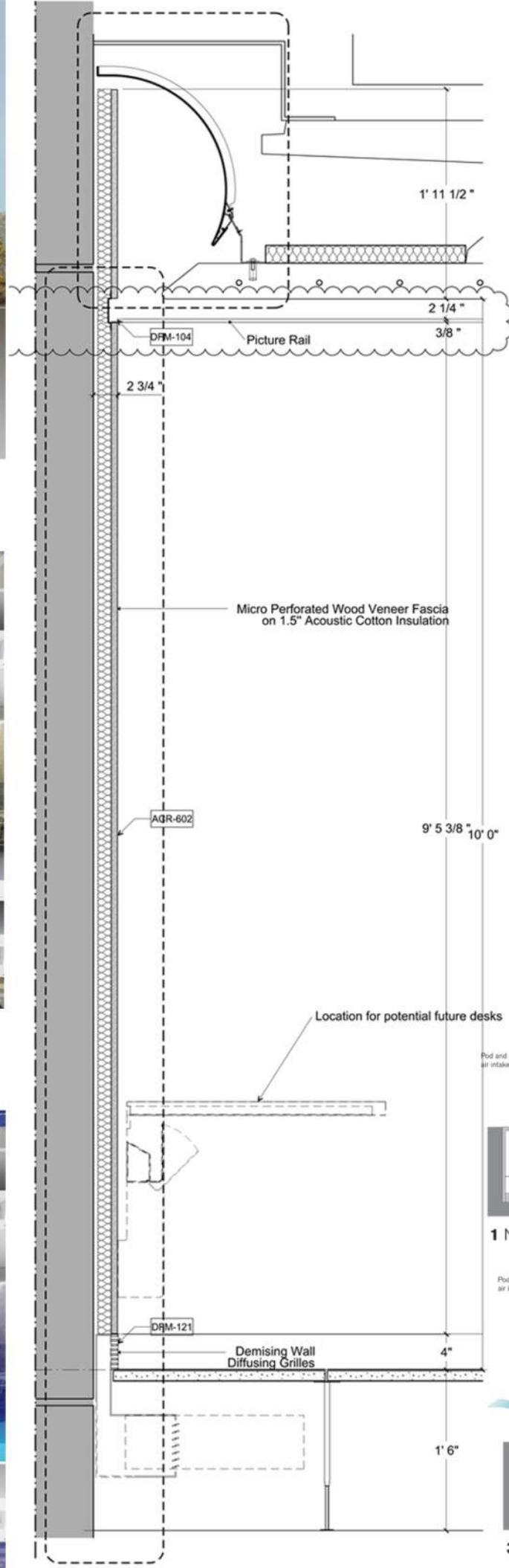
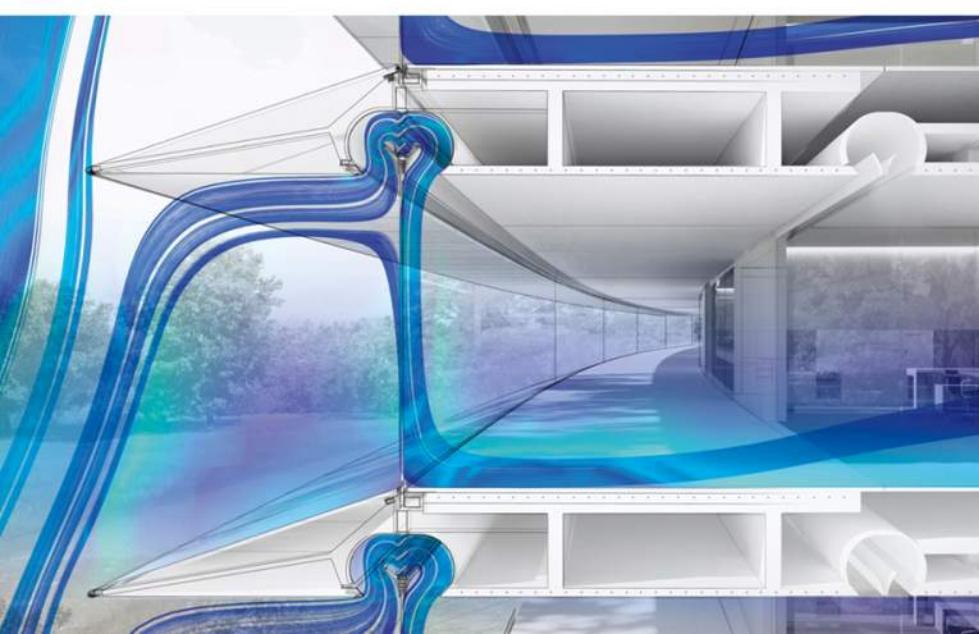
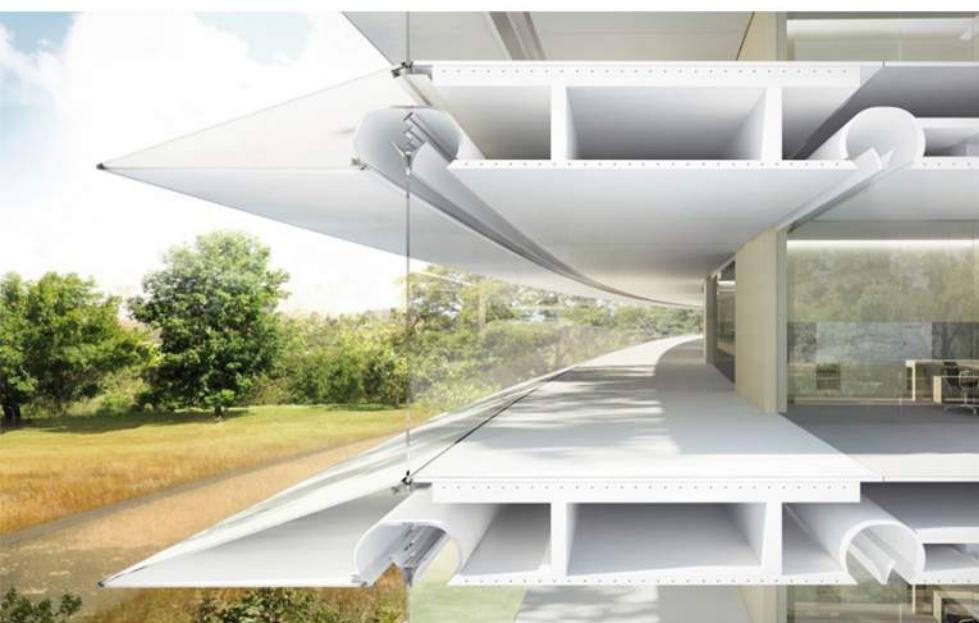
Company Name Confidential - Lab Design

As the CEO of the company once told us, "Labs are the brain of an operation", and this project provided me the opportunity of a lifetime to work on the "brain" of a world class project.

The project consists of 33 labs in four levels at the end of each pod. Each lab is dedicated to a different end user, and each as a different function.

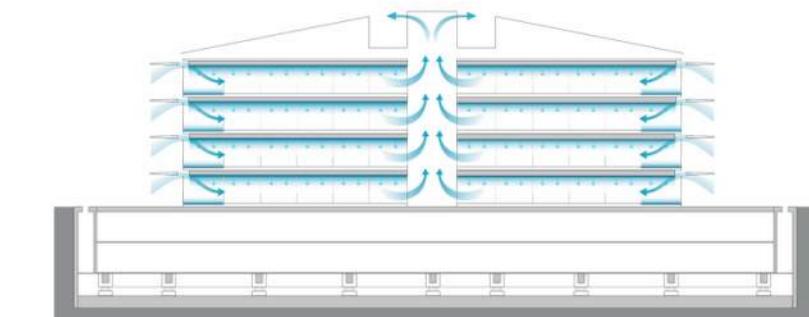
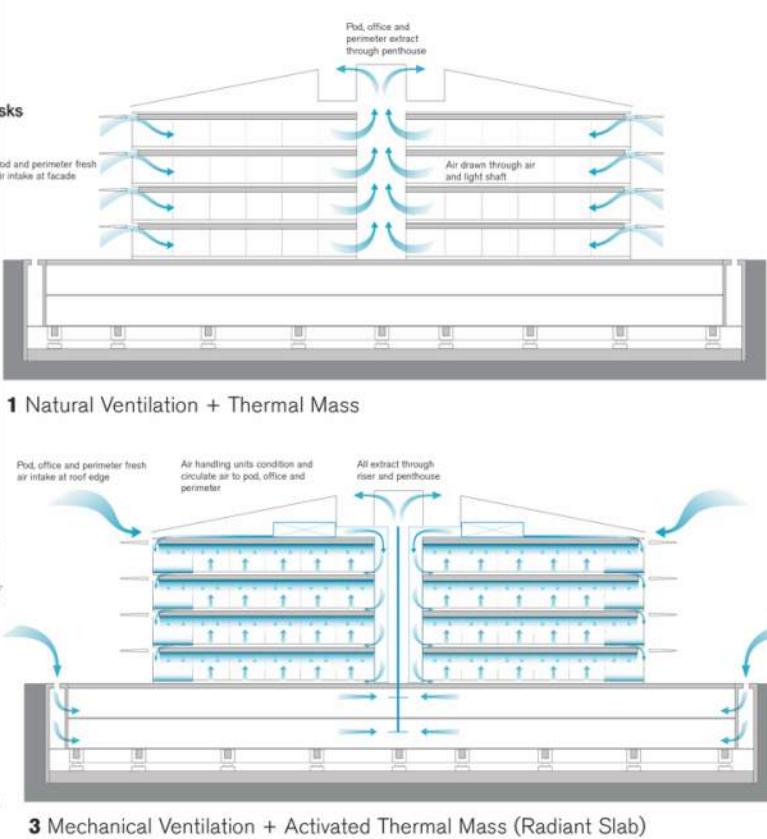
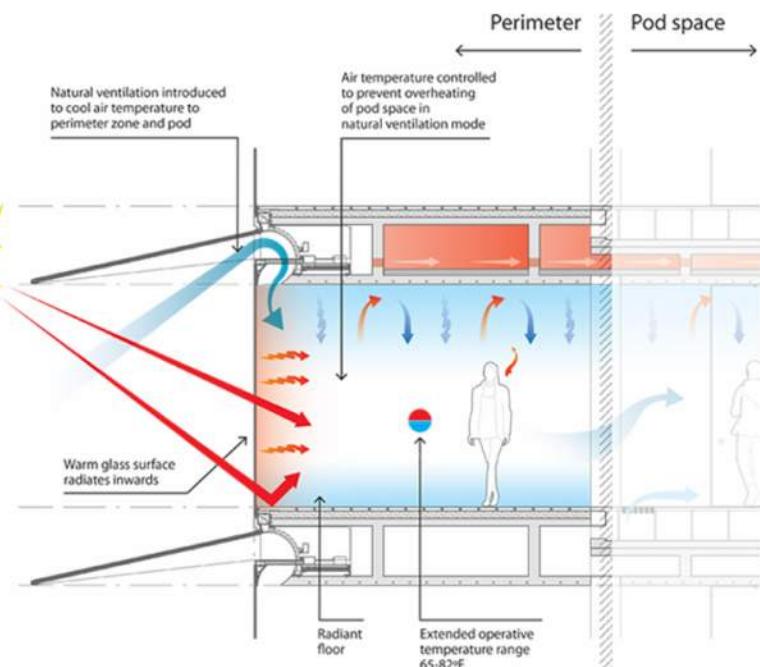
Worked in a team of seven with all the end users to come up with the optimum design for each lab. Conducted various meetings with the end users and the client to better understand the needs and the workflow. Developed modular system for each floor and created the preliminary floor plans. Coordinated all the utilities, security, and coordinated all the functions with other consultants, general contractors, and the client. The unique shape of the building, the scale of the project, modularity of the design, and the fact that parts of the building were under construction dictated very high accuracy.





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Worked on producing 3D sections to closely study the air flow of the building. Worked in a group of three to coordinate the air flow with the Mechanical engineering consultant. The building works with 100% renewable energy system, and it is a net-zero building. The heating and cooling of the building heavily relies on natural ventilation. The design of the interior ceiling parts that conduct the air flow were a collaboration between architectural and mechanical team that pleased the client with their sleek and efficient design.



2 Natural Ventilation + Activated Thermal Mass (Radiant Slab)



4 Additional systems for high load spaces

A large satellite dish antenna, likely a parabolic reflector, is shown in a dark, industrial or laboratory setting. The dish is made of a reflective material with a grid pattern. A person wearing a white lab coat and a hairnet is visible in the foreground, looking towards the dish. The background is mostly in shadow, with some structural elements and equipment visible.

Company Name Confidential - Sunnyvale, CA

Ranked fifty seventh on Fortune 500 list of 2020, Optical Payload Center of Excellence is a department within this company.

Optical Payload for space missions is a comprehensive collection of optical spacecraft payloads with contributions by leading international rocket-scientists and instrument builders. This operation covers various applications, including observation, communications, navigation, weather, and science satellites and deep space exploration.

HGA was awarded this project in 2019. I as the acting project manager along with the architectural principal spent many months studying the process, conducting meetings, and learning about the workflow. Worked along with a designer on various designs to reach the desired layout. We used Revit as the main tool to produce the drawings and used 3D renderings to better demonstrate the areas to the end users and the client.

After Design Development phase I switched my focus on the technical aspect while managing the project, and worked on the details, and coordination required with the MEP Design Build firm.

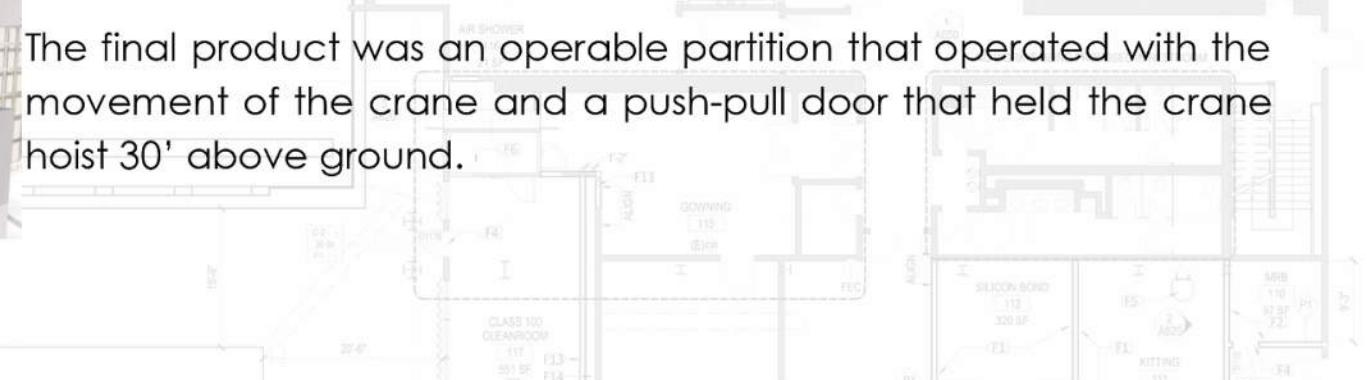
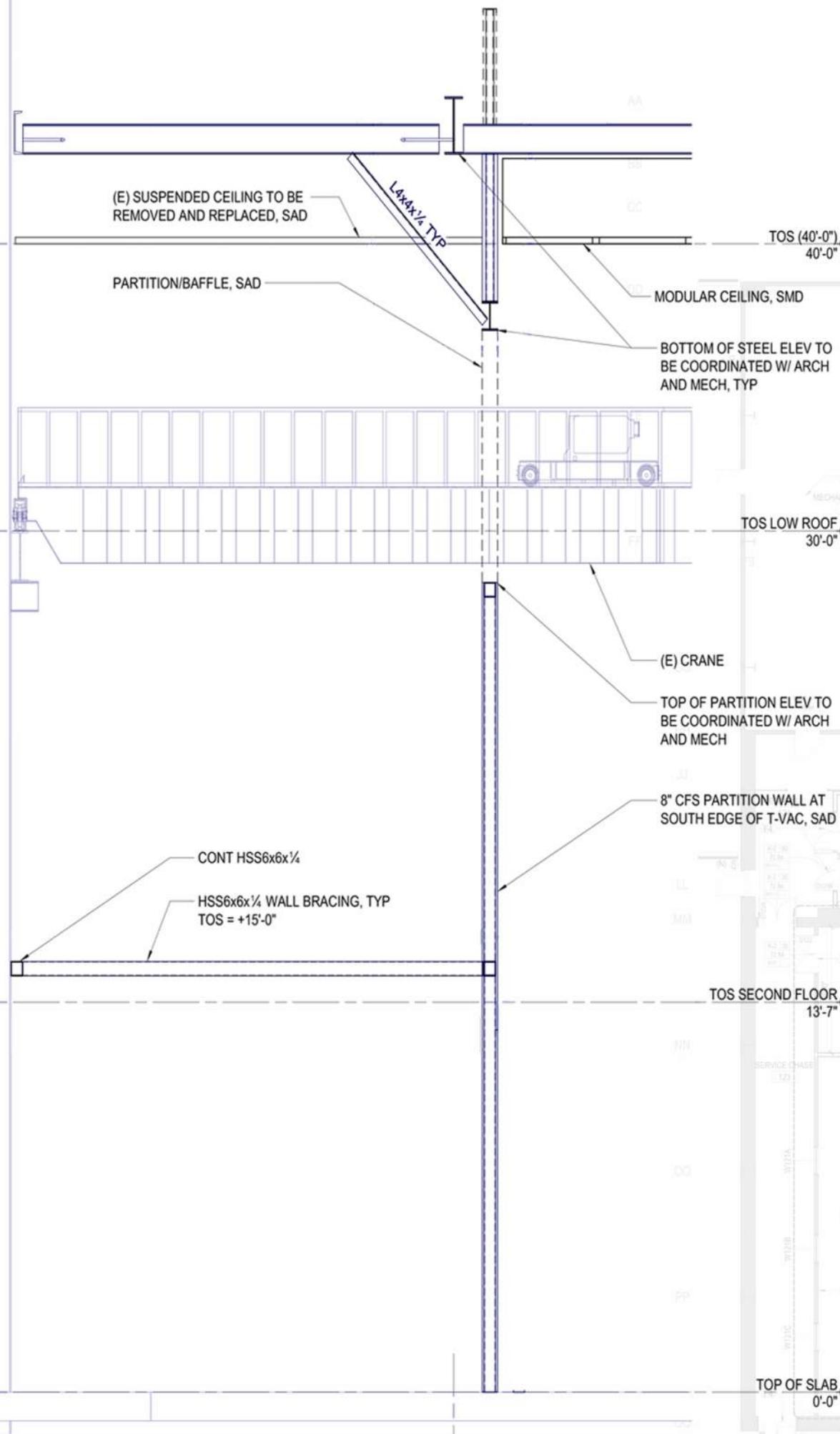
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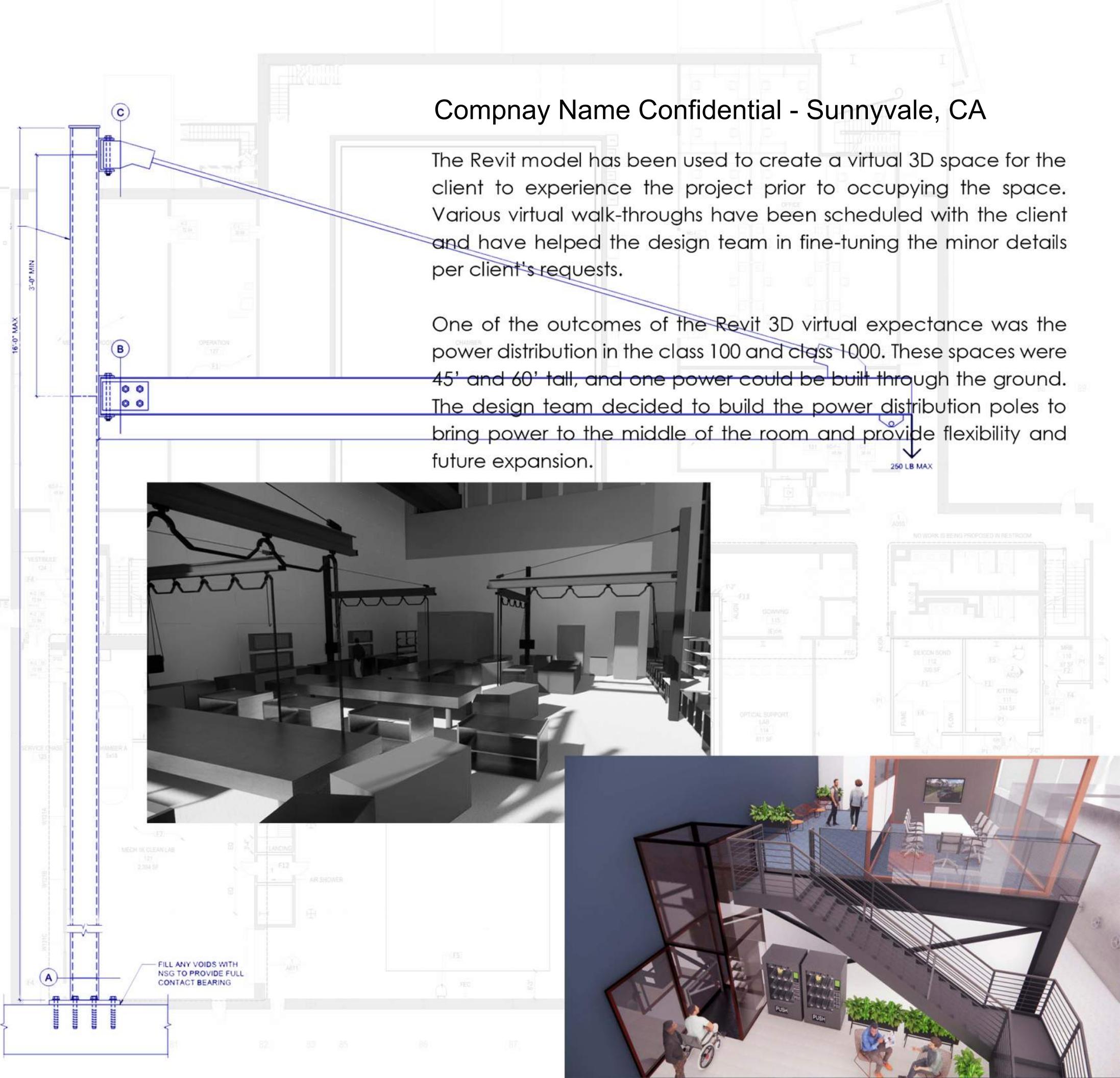
The project consists of three main areas, Class 10, 100, and 1000 cleanroom. The Class 100 interacts with back-of-house service chase, Thermal Vacuum chamber, and Class 1000 Lab.

One of the challenges of the project was functionality of the crane on top of the class 100 and the back-of -house Thermal Vacuum chamber. The crane moves between the clean and dirty space which does not align with the fully enclosed space that a class 10 space requires.

I along with the architectural principal worked on various options and with different vendors to find the correct solutions. Also collaborated with the MEP and structural team on our findings and selected the optimal option.

The final product was an operable partition that operated with the movement of the crane and a push-pull door that held the crane hoist 30' above ground.



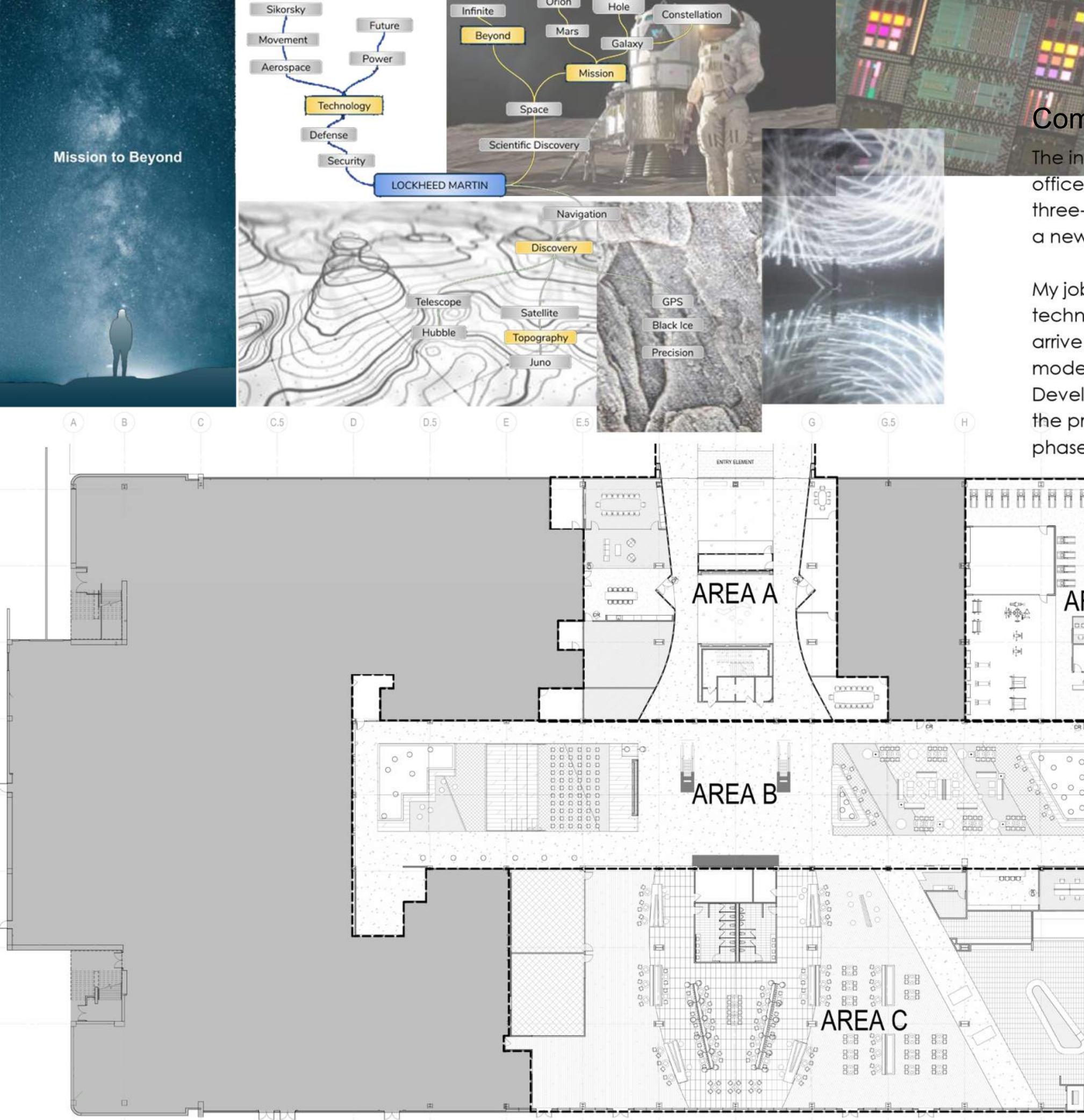


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Ranked fifty seventh on Fortune 500 list of 2020, this company is the US's biggest private contractor. It is also an American Global Aerospace, defense, security, and advanced technology company.

HGA was commissioned to work on the remodel of the common area of the office building in the Sunnyvale CA, location. The project was awarded to HGA due to the great work done on the Optical Payload job finished earlier that year.

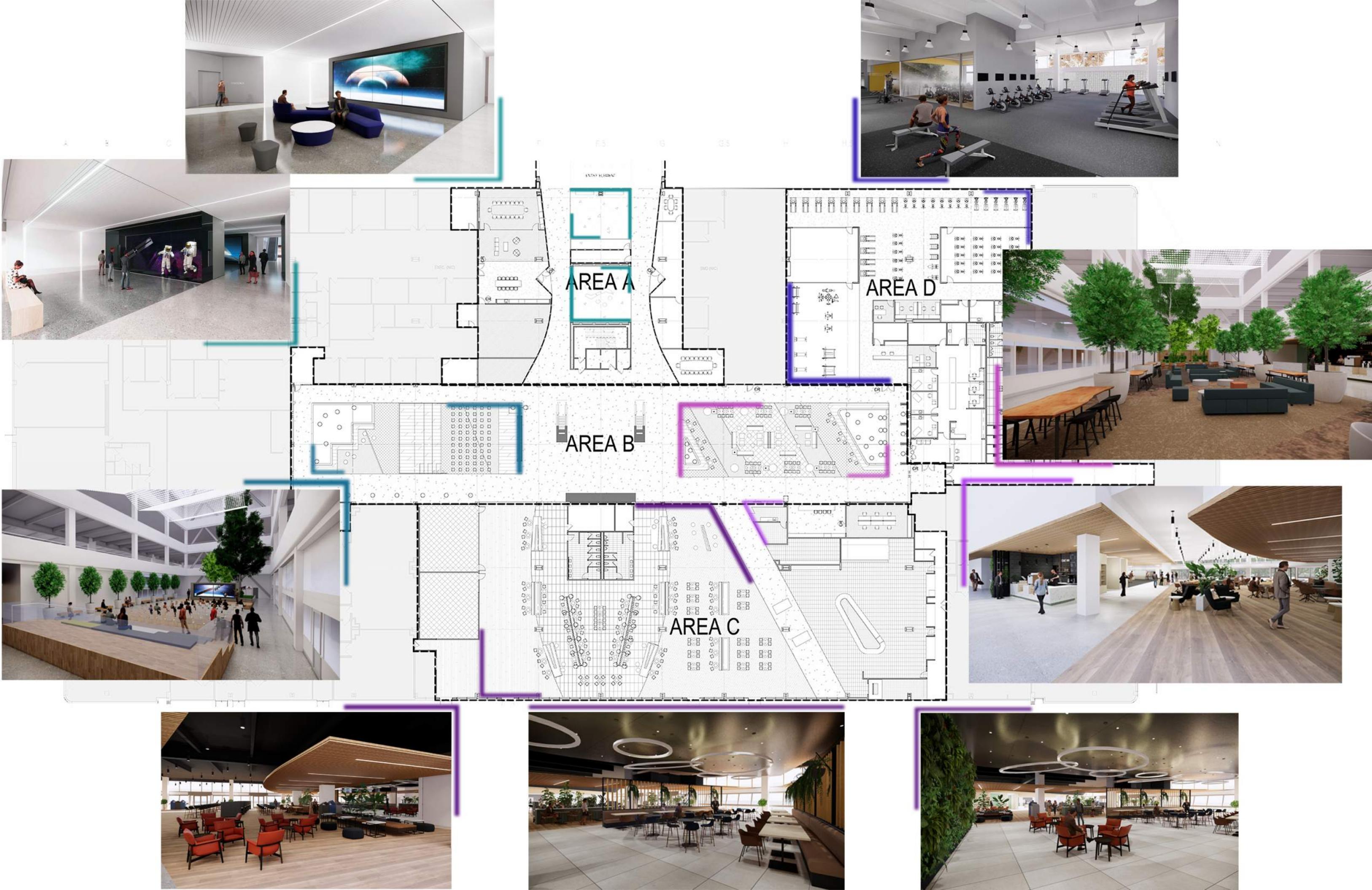




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The intent was to tell a story of the missions, the projects when entering the office building. Taking technology and exploration as two main themes, the three-person designer group took the experience of a satellite landing on a new planet as the concept.

My job started as the project coordinator and the connection between the technical team and the designers. Attended all the design meeting to arrive at the current concept, helped with preparing the drawings, 3D model, and the renderings for the Schematic Design and Design Development phase, later got more involved at the technical aspects of the project, and carried the project during the construction administration phase.



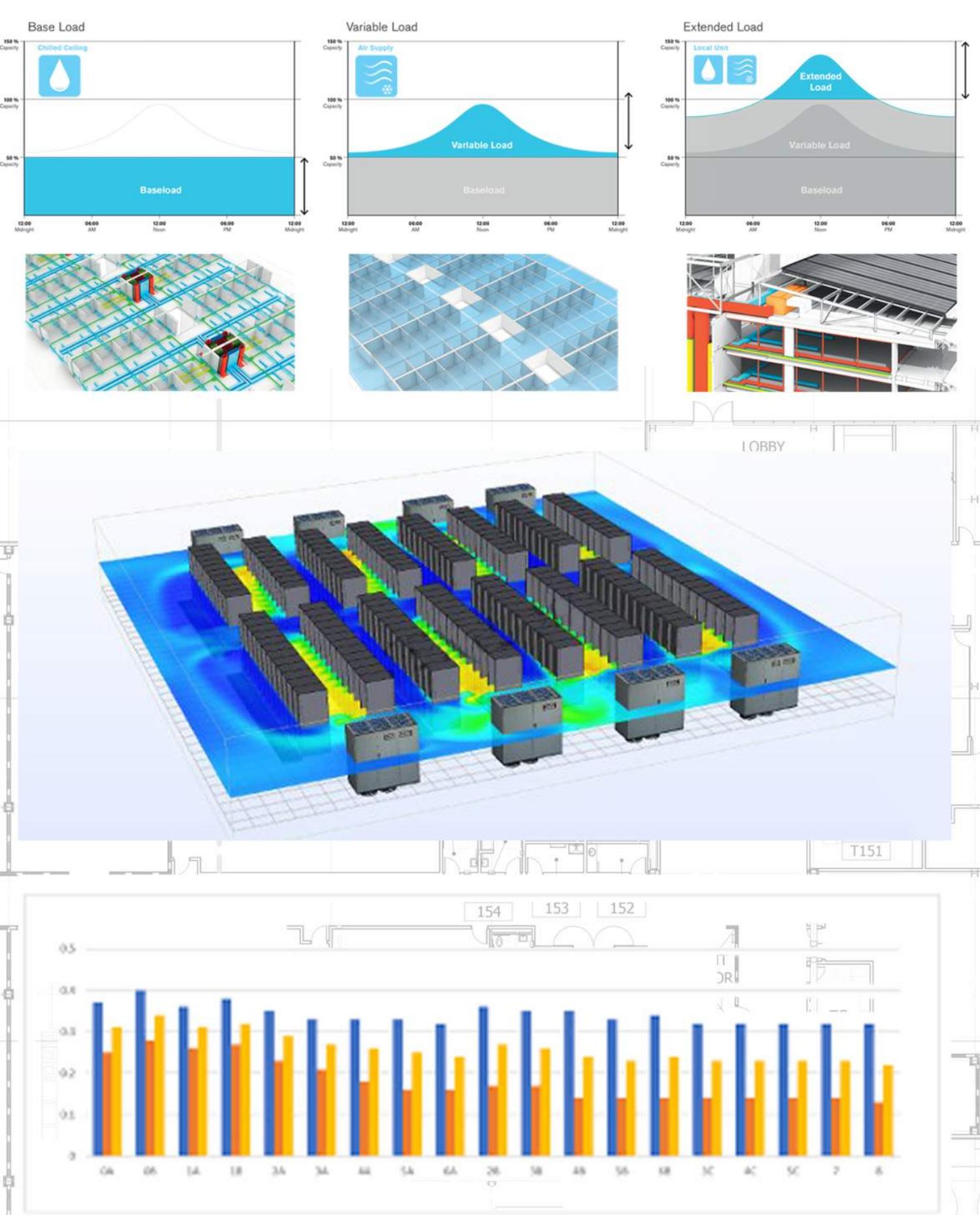
STACK Infrastructure - Data Center - San Jose, CA

Stack infrastructure is a leading data center company with large scale data halls in six different strategic locations. Built to provide services to big companies that fuel the Bay Area economy, Stack is located in heart of Silicon Valley.



The project consists of building a new structure to increase the capacity by 300% while staying green and sustainable, and upgrading the existing building to be in compliance with the latest energy consumption trends.

My role started as working on the planning package, and to work with the client on gathering the information on the new building. I interviewed the client and some of the end users to find their needs and to help the design team with an optimum design solution.



STACK - Data Center - San Jose, CA

HGA was awarded this project in late 2018. This project was a collaboration between HGA San Jose and DC office. San Jose office was mostly in charge of the architectural design, and DC office was mostly in charge of MEP coordination and exterior design.

My role started with the planning package, but later it included helping the design team with arriving at the best solution for the data hall design.

The client wanted to meet LEED energy goals and had a huge emphasis on energy efficiency. They also wanted to explore the modular and pre-fabrication options as well. Our team collaborated to provide a design with energy efficiency in mind. I along with a team of 3 worked on building the 3D model and explored different options, ran different calculations to arrive at the best option.

SECOND FLOOR OUTLINE

