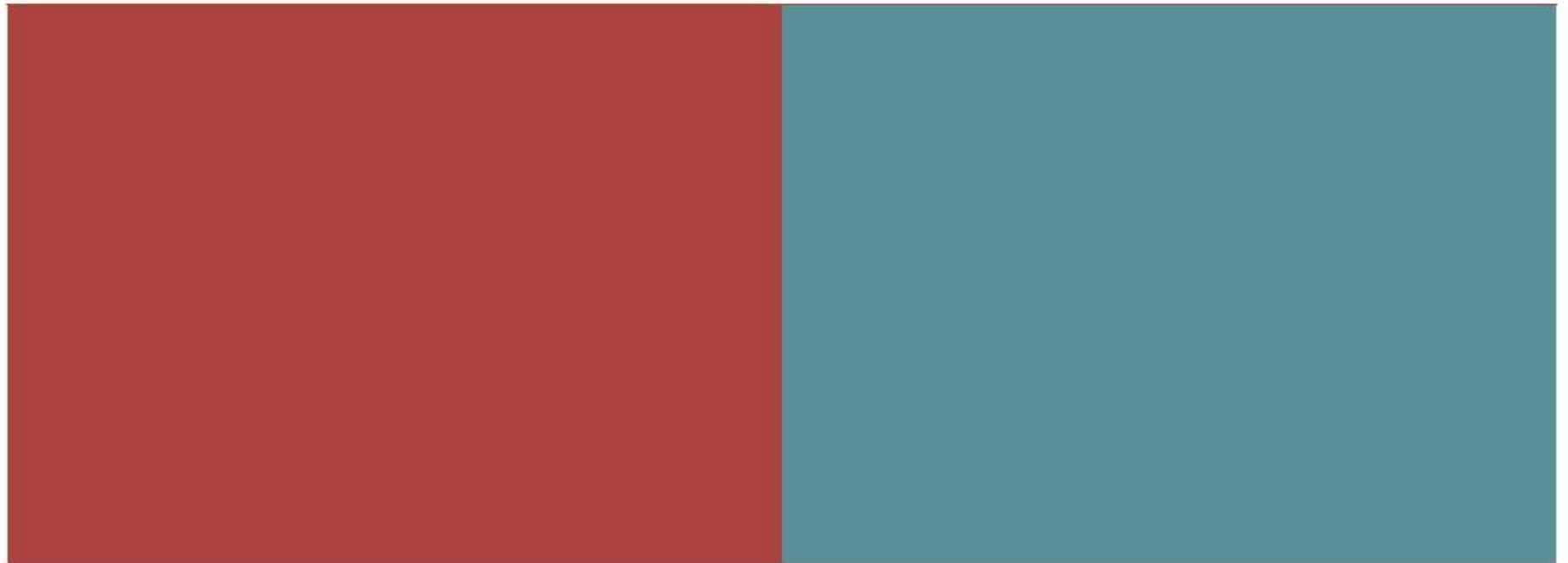


SHENPEI HA

(604) 771 8066

contact@shenpeiha.com

Toronto, Ontario



PORTFOLIO

HENRIQUEZ PARTNERS ARCHITECTS

Intern Architect | 2017 – Present

Reference: Rui Nunes – Partner of Henriquez Partners Architects

Oakridge Redevelopment – Vancouver, BC

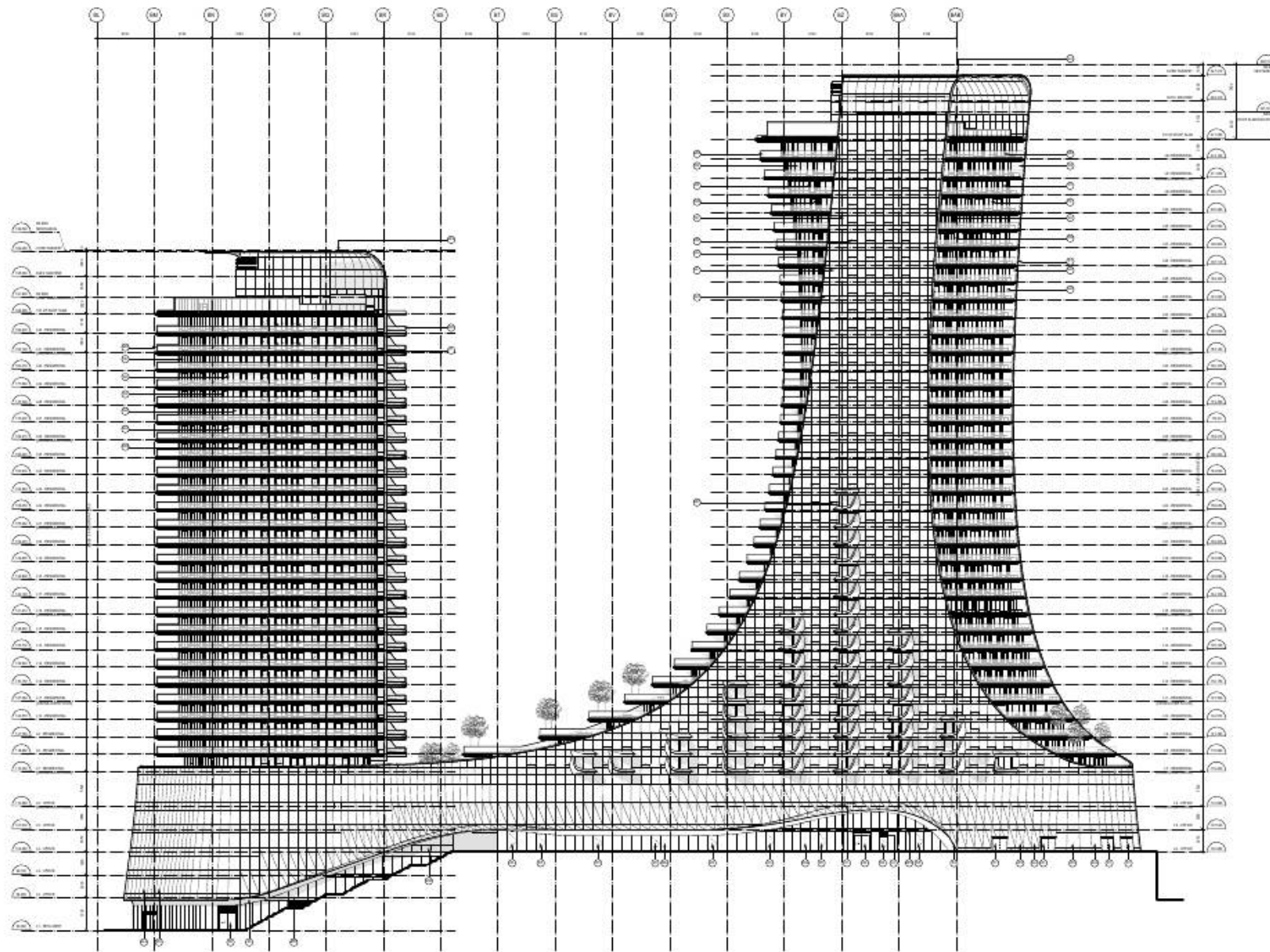
Responsibility: Computational Design / Technical Coordination / Graphics & Communication



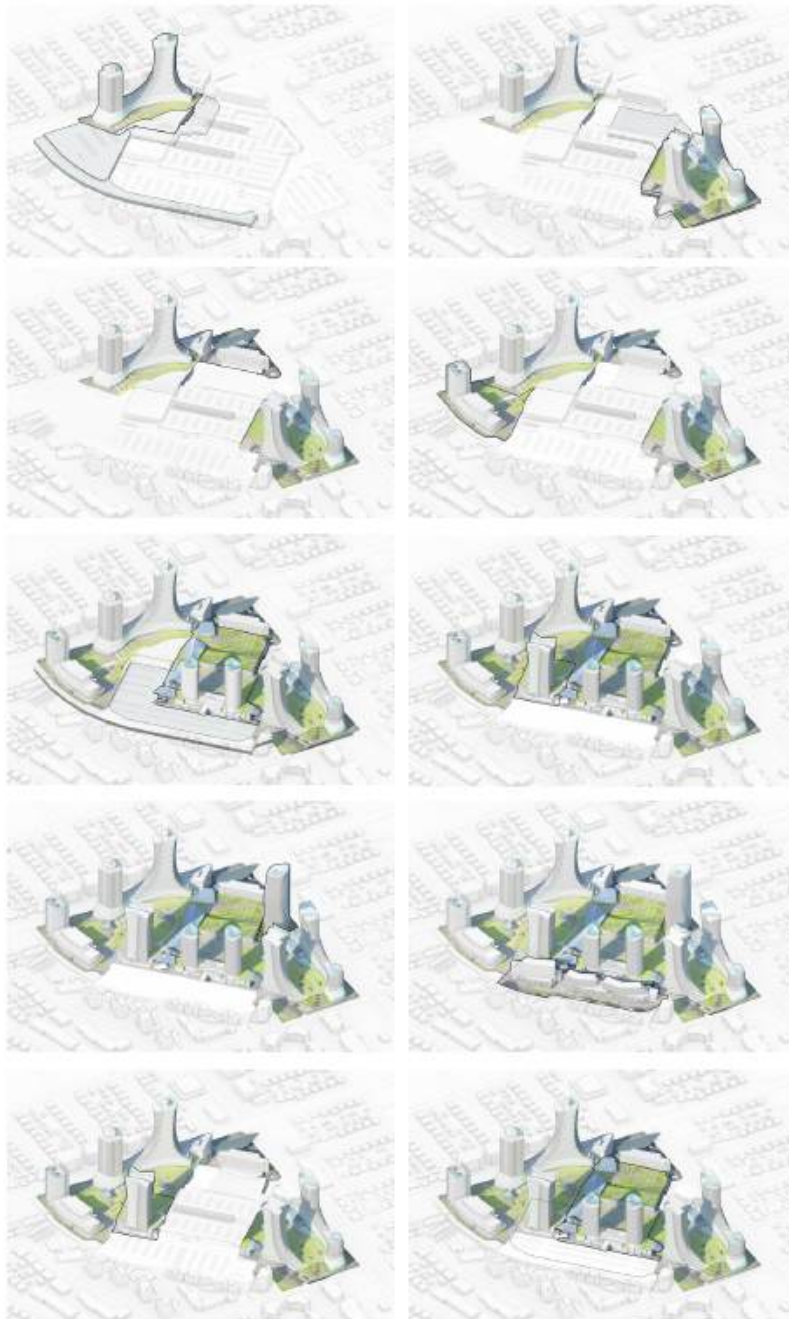
The Oakridge Redevelopment marked Henriquez's exploration of increasingly organic forms and complex geometries. I took the lead in introducing a new Rhino workflow that enabled the design team to explore and develop these forms more freely. I also developed Grasshopper workflows to rationalize complex geometry for constructability and generate coordinates for structural and curtain wall coordination.



Graphic & Communication
Selected diagrams
communicating the evolution
of the design for rezoning and
public presentations.

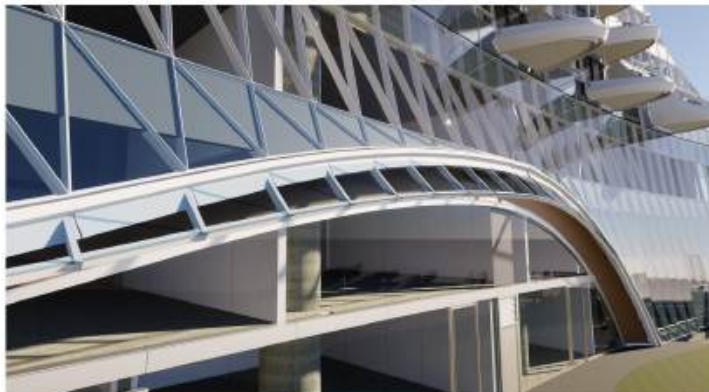
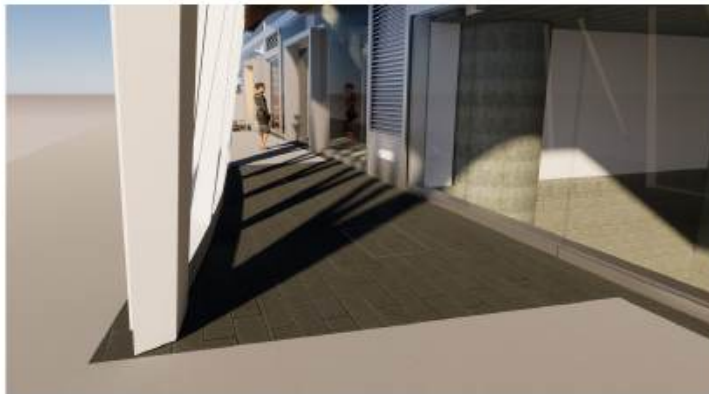


East Elevation
Revit - Original sized at 1:200 on ARCH E

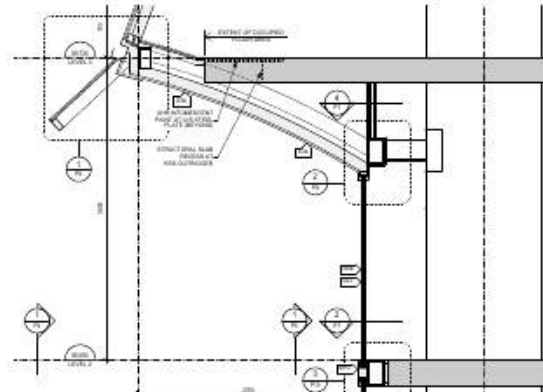
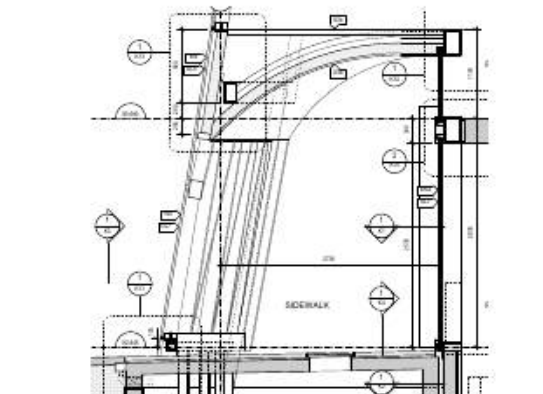
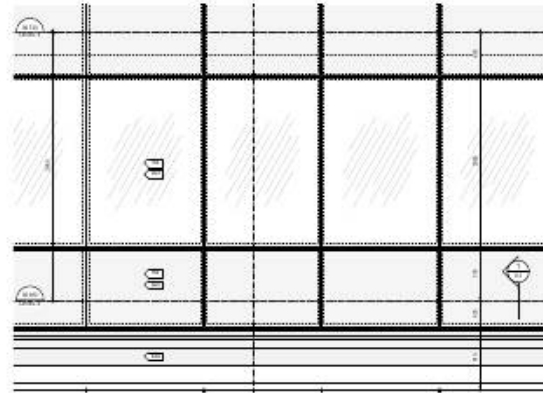


Construction Phasing and Axo of Building 3 & 4
Revit, Adobe Photoshop and Rhino

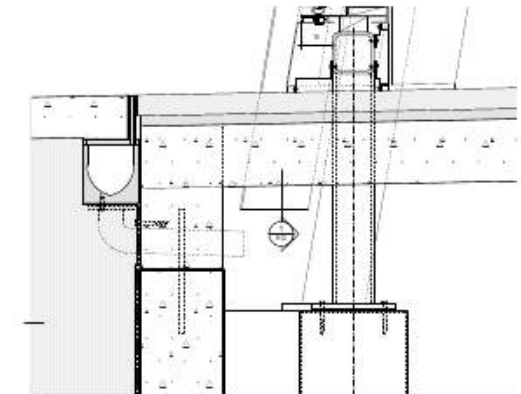
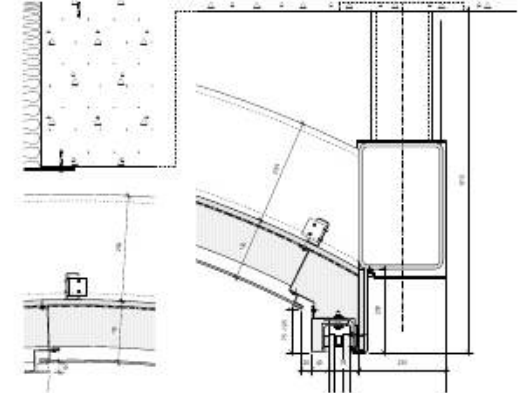
Design Render



1:25 Detail



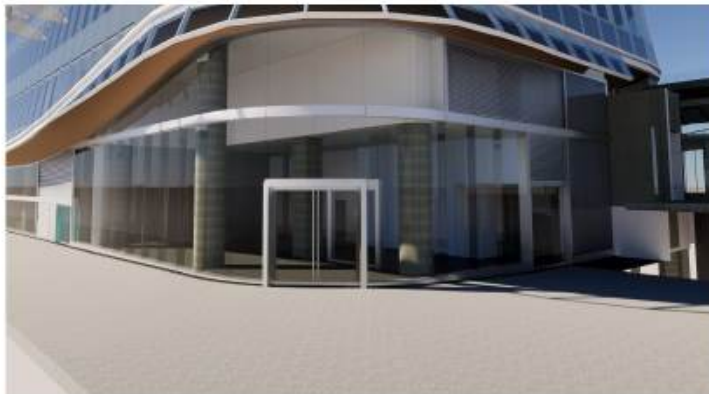
1:5 Detail



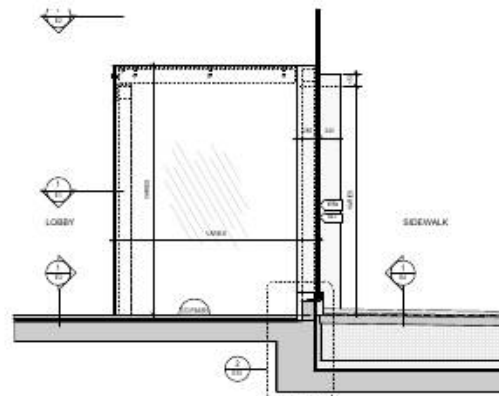
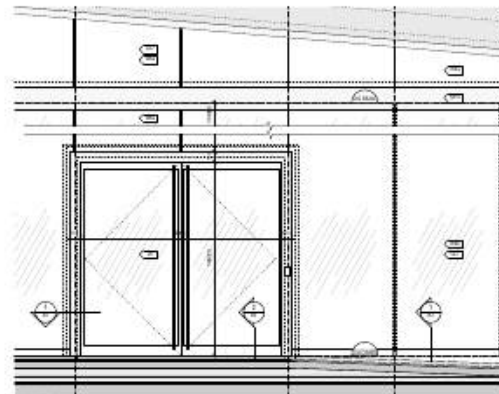
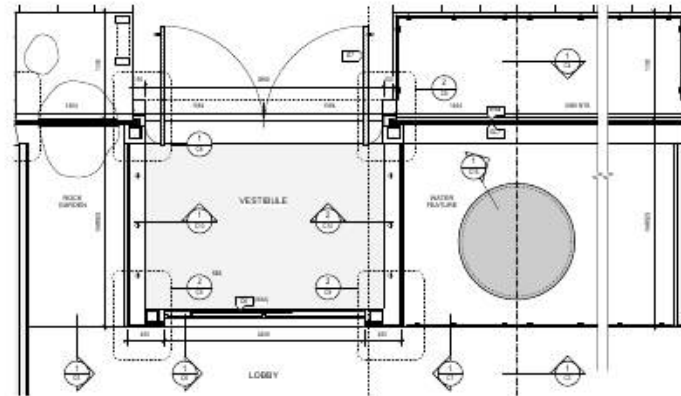
Design Supplementary Package

As Design Architect, we pro actively developed a package of 1:25 and 1:5 junction details to clearly communicate design intent. I was responsible for drawing and rendering these details and coordinating their resolution with the Architect of Record.

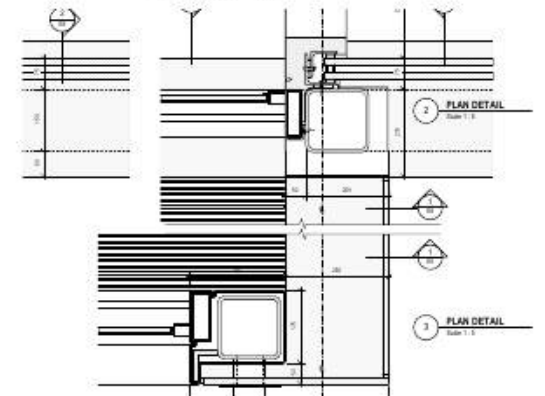
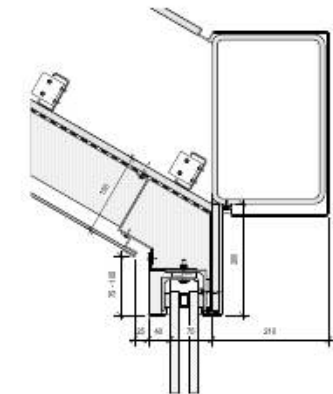
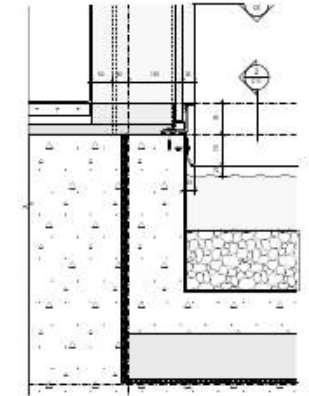
Design Render

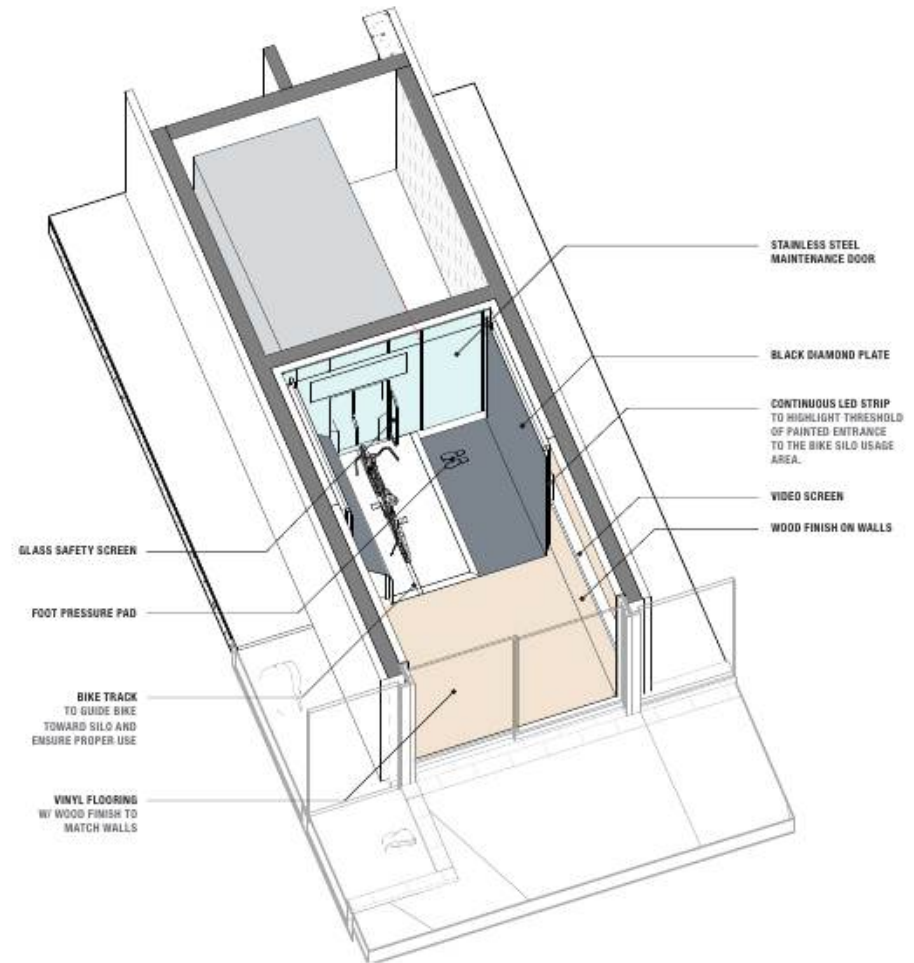


1:25 Detail



1:5 Detail

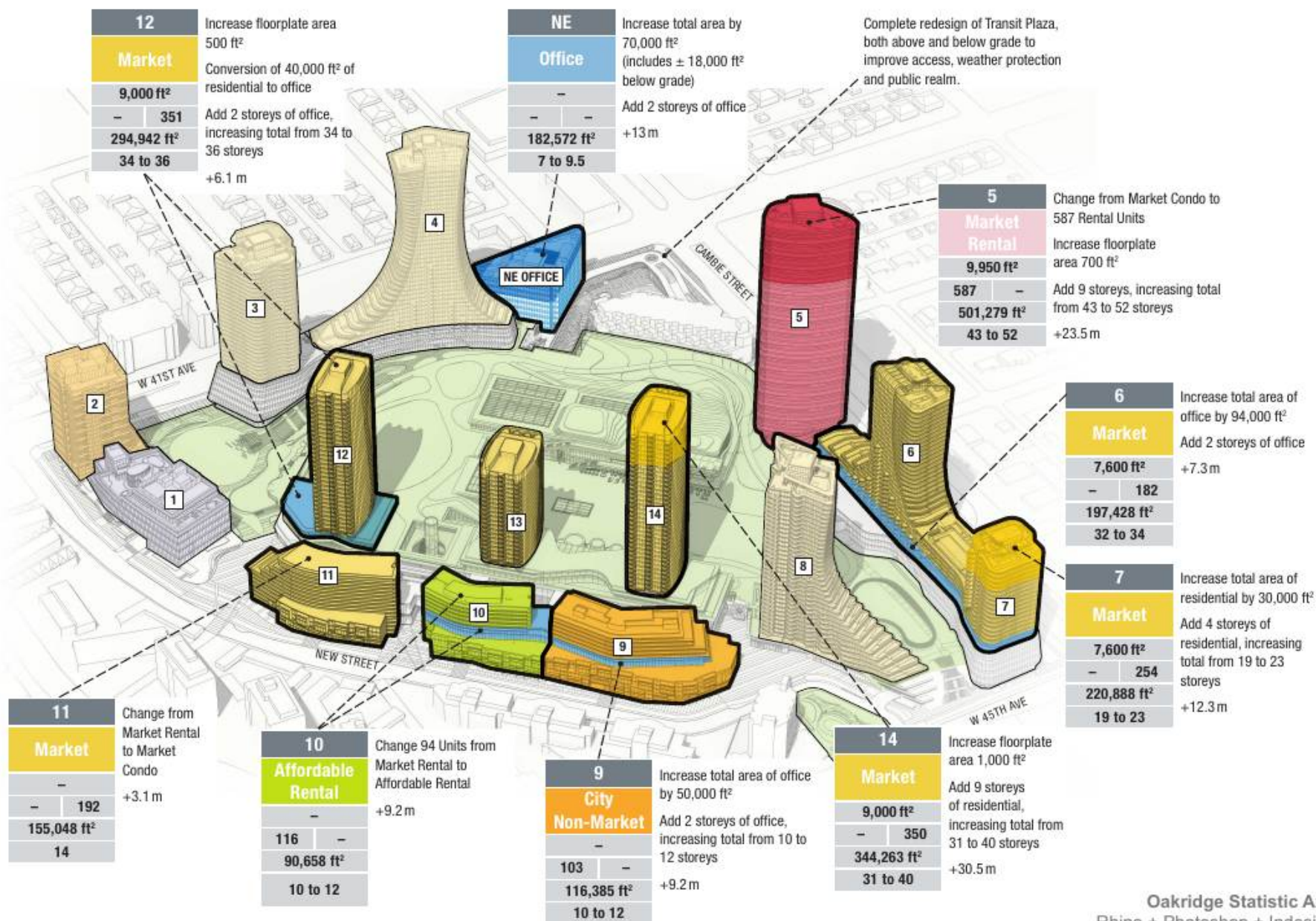




Design Supplementary Package - Bike Silos

Oakridge will feature bicycle silos for residents, transforming bike storage into a considered arrival experience. As part of the design supplement

package, we established the design intent and specifications for the bike rooms, which were developed in detail for implementation by the Architect of Record.



888 West Broadway– Vancouver, BC

Responsibility: Helicopter Flight Path & Zoning Comprehension / Graphics & Communication



Located adjacent to Vancouver General Hospital, 888 West Broadway required careful consideration of the hospital's helicopter flight path. I developed diagrams that distilled the

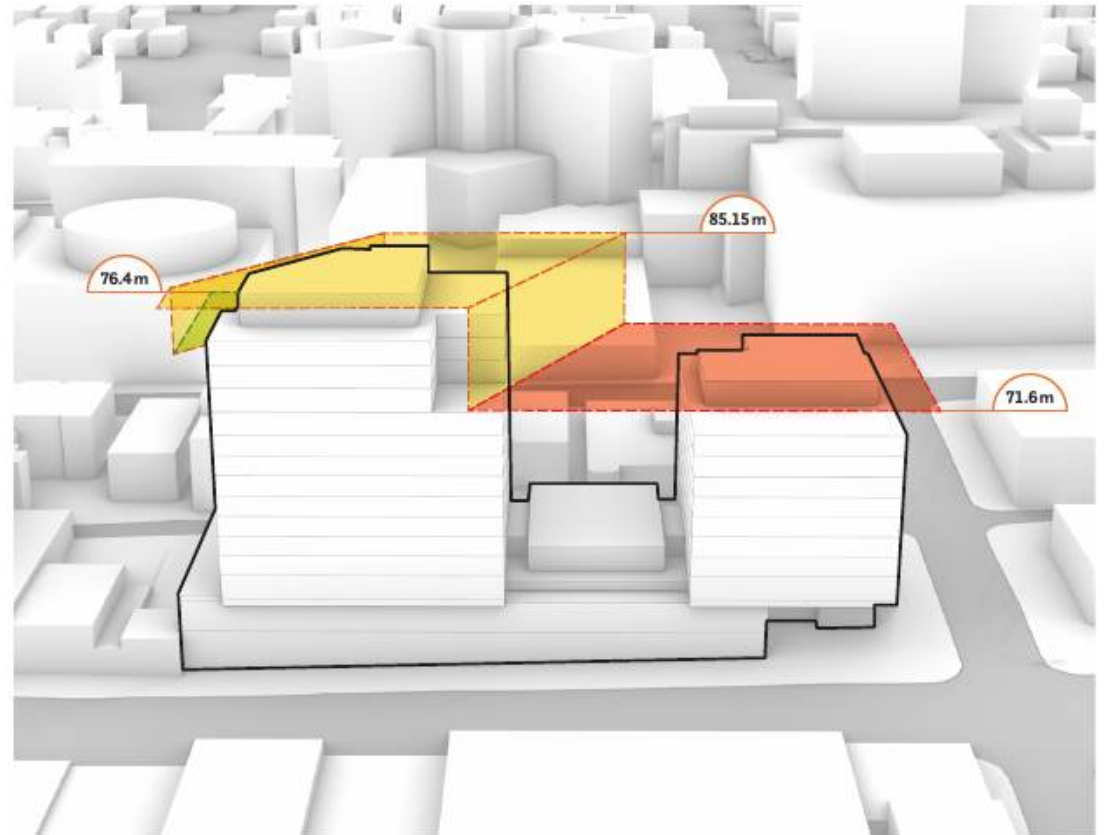
technical flight path report into clear visual information, supporting communication with the City and at community meetings. I also contributed to the preparation of the rezoning drawing package.



Helicopter Flight Path

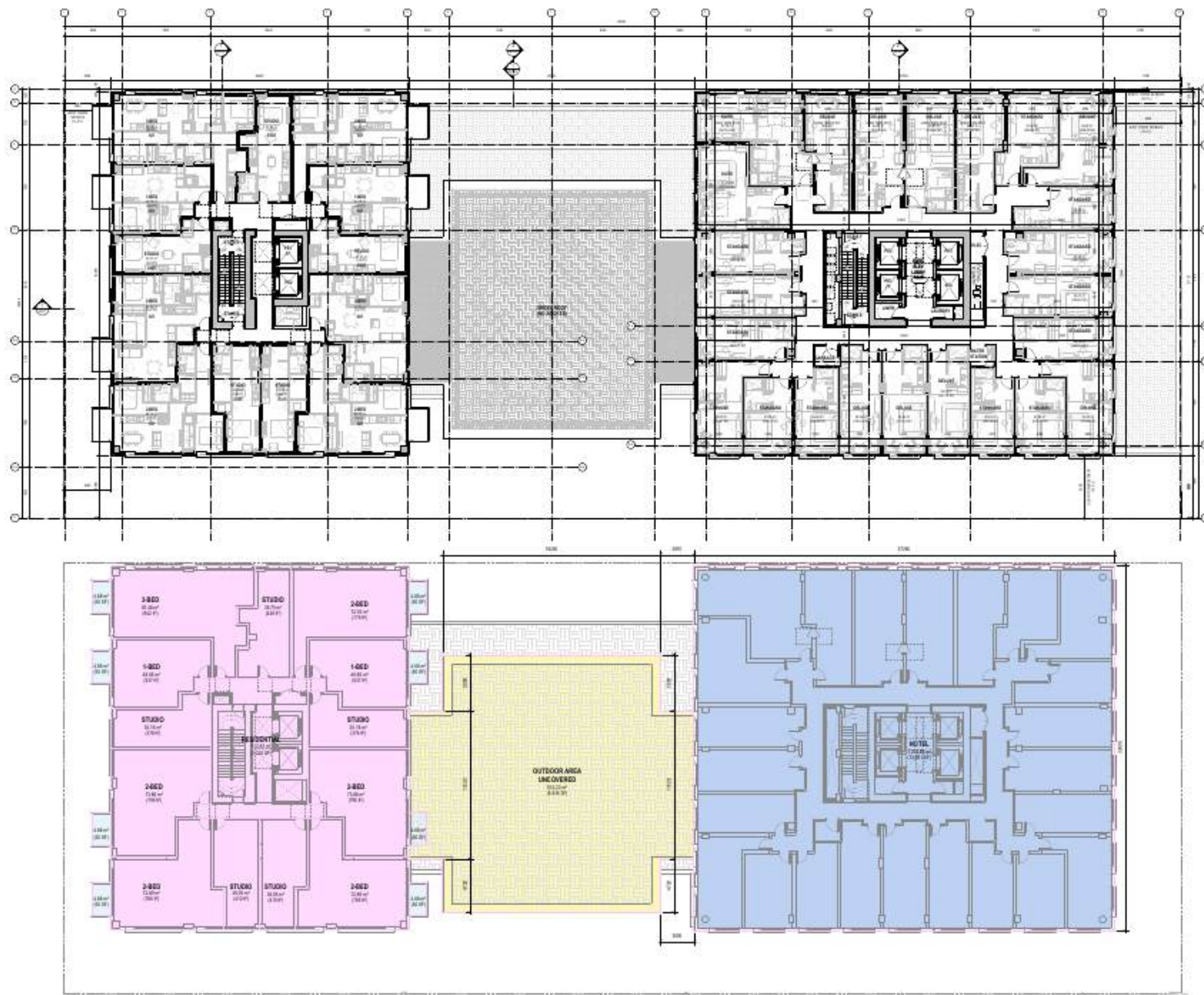
Height limits for the building massing have been informed and sculpted by the helicopter flight path requirements from Vancouver General Hospital (VGH).

An analysis was undertaken by Ground Effect Aerodrome Consulting Ltd, the helicopter consultant, to determine maximum heights that would be permitted on our site while maintaining safe operations for VGH's current fleet of helicopters. The heights are shown on the map above. These maximum heights range in elevation from 71.6m on the west side to 85.15m on the east side as set-out in the adjacent diagram.



Design Narrative Diagram - Program changes



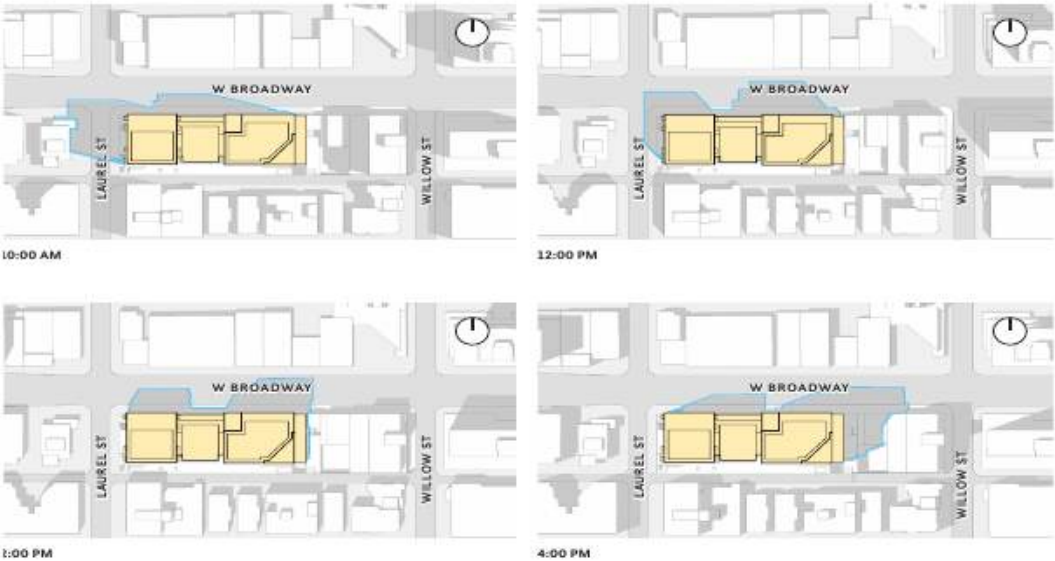


Floor Plan with Gross Floor Calculation
Revit - Original sized at 1:150 on ARCH E

Spring Equinox



Summer Solstice



Shadow Comparison
Revit Shadow Colour Plug-in + Adobe Photoshop

To fully understand the impacts of the revised massing and increased tower separation, I conducted a shadow analysis. A key objective of this study was to confirm that the proposed development would result in decreased shadowing on the north sidewalk of West Broadway compared to the previous rezoning application.

The overall massing remains generally unchanged, with the east tower maintaining the same height, form, and floor-to-floor heights as the previous approval, while the west tower's floor plate has been reduced by approximately 10%, improving separation between towers and further reducing shadow impacts on the surrounding public realm. The building heights and floor-to-floor heights remain identical to the previously approved rezoning, ensuring consistency in skyline and contextual fit while enhancing daylight access and liveability at grade.

- Proposed Buildings
- Existing Shadows
- Proposed Incremental Ground Plane Shadows
- Proposed Incremental Sidewalk Shadows

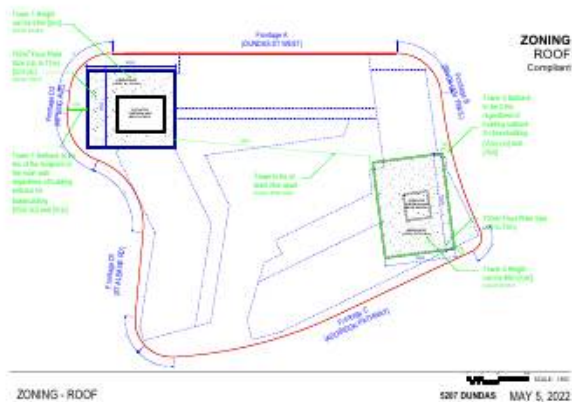
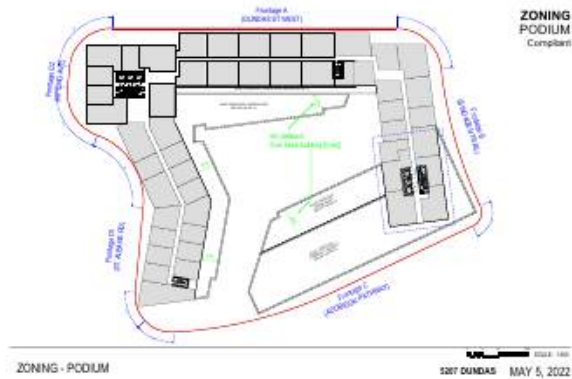
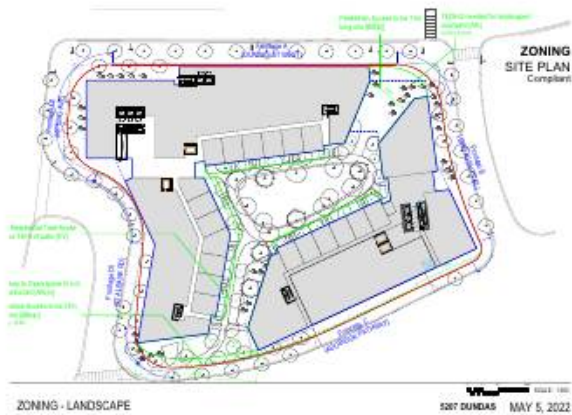
5207 Dundas – Etobicoke, ON

Responsibility: Computational Design / Visual Mock-up Coordination / Graphics & Communication



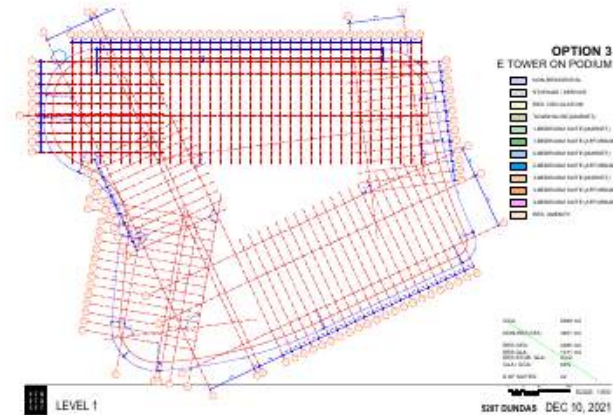
My involvement in 5207 Dundas began during schematic design, with a **focus on coordinating unit mix and sizing, precast façade expression, and zoning compliance**. Henriquez joined the project as Design Architect with a predetermined, tightly fitted rezoning envelope, requiring us to work within significant spatial

constraints while retaining Henriquez's design DNA. As the project progressed, **my role expanded to include coordination of the precast panel VMU**, carrying the façade design intent toward its technical realization.



Zoning Compliance

To support the project's rapid start, I took the initiative to develop zoning compliance diagrams illustrating the site's complex zoning envelope and key constraints. These became a valuable reference throughout the design process, allowing the team to quickly assess proposals against zoning requirements.



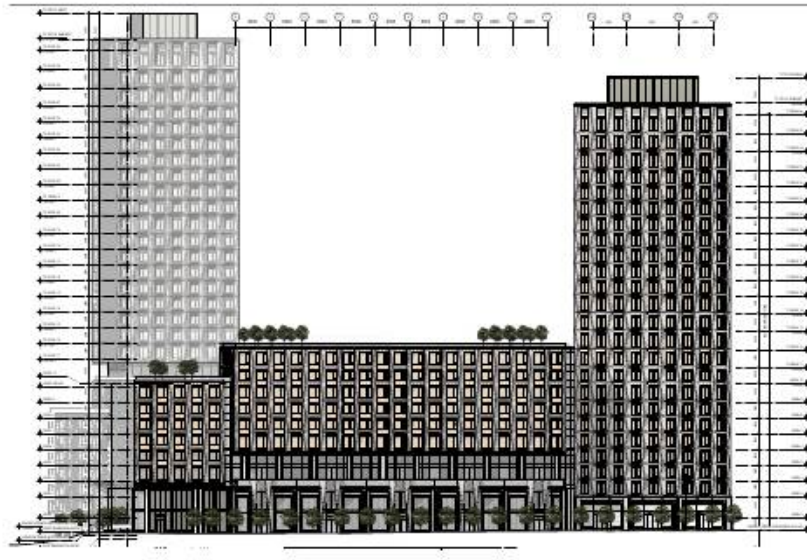
Unit Grid, Unit Mix and Precast Panels

Working within defined unit mix and area requirements, I coordinated unit planning with the precast façade grid, balancing spatial comfort, program requirements, and architectural expression while maintaining consistency across the building.



	NON-RESIDENTIAL		2-BEDROOM SUITE
	STORAGE / SERVICE		3-BEDROOM SUITE
	RES. CIRCULATION		4-BEDROOM SUITE
	TOWNHOUSE (MARKET)		RES. AMENITY
	1-BEDROOM SUITE		

Unit Mix and Gross Floor Area Plans
Vectorworks - Original sized at 1:500 on 11 x 17



Architectural Drawings
Vectorworks + Adobe Photoshop+ Enscape (For Background)

Block 13 – West Don Lands, ON

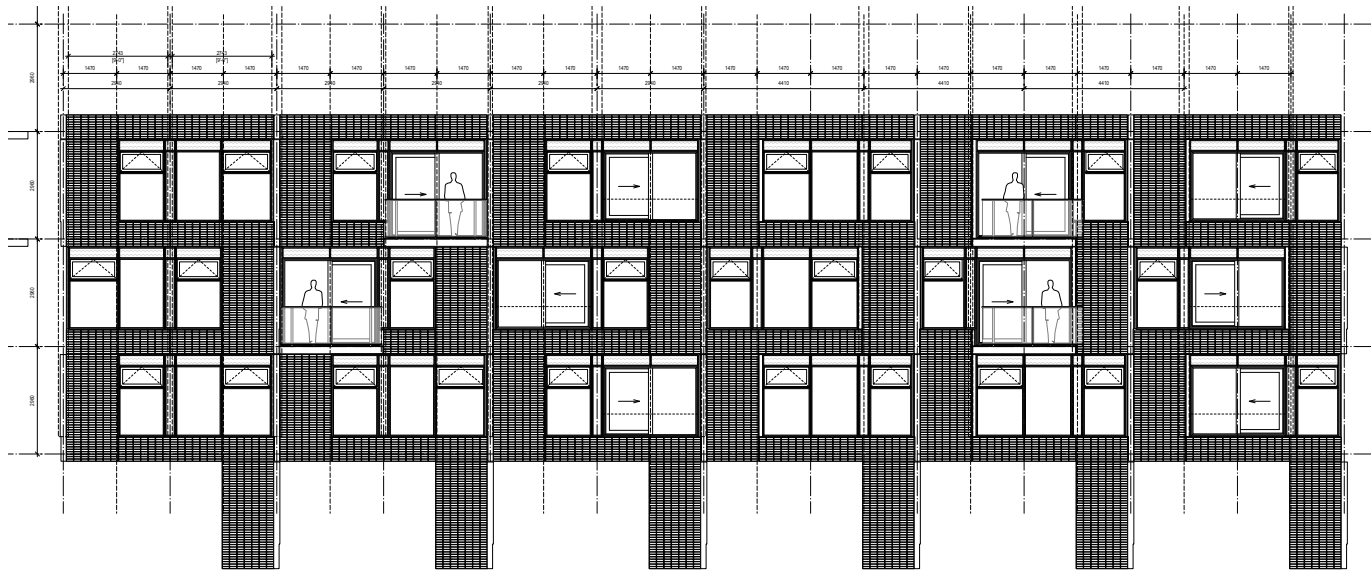
Responsibility: Computational Design / Graphics & Communication / Schematic Design Package



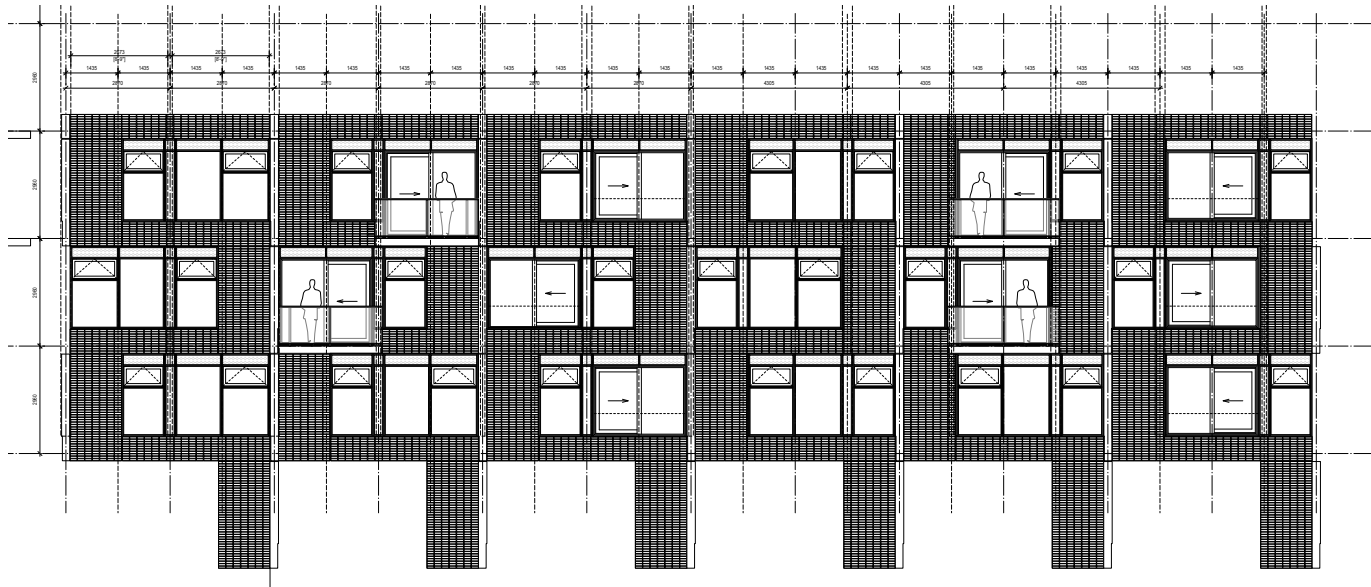
Block 13 involved testing brick module sizes and colour blends across ten standard modules to create a façade with a natural, varied expression. Unit mix and unit sizing were developed in

parallel, with the project progressing through design development toward a coordinated design package for handover to the Architect of Record, reflecting Henriquez's role as Design Architect.

2940mm Grid



2870mm Grid



Brick layout and Unit Grid Sizing

Exploring brick within a fixed structural grid required anticipating how modules would be laid out across each bay to minimize unforeseen design conflicts. Shown here are elevation studies testing brick layouts against 2940 mm and 2870 mm grids. I took responsibility for developing and coordinating these studies with the Creative Director, translating the design intent into a buildable and consistent façade system.



Cream White
Smooth



Golden Dawn
Smooth



Sunset
Flashed Smooth



714 Sundown
Flashed Smooth



Castellana



Azul



Romero



Brick samples and colour studies

Working with Glen-Gery brick samples, we developed a series of colour studies to keep the façade exploration grounded in available materials. Using Rhino and Enscape, I produced colour-matched renderings to support informed design decisions. Careful calibration of colour and texture-map scale was critical to representing the brick as accurately as possible and maintaining a close relationship between the digital study and the physical material.



BIRD FRIENDLY DESIGN STATISTIC						
ELEVATION	VISION GLAZING	LOW REFLECTANCE (OPAQUE MATERIALS)	VISUAL MARKERS	SHADED	TOTAL AREA TREATED (m²)	TOTAL AREA TREATED (%)
NORTH	42 m²	2 m²	498 m²	0 m²	498 m²	92.3%
EAST	19 m²	5 m²	674 m²	0 m²	679 m²	97.5%
SOUTH	7 m²	2 m²	1255 m²	0 m²	1257 m²	99.5%
WEST	8 m²	35 m²	1306 m²	0 m²	1341 m²	99.4%
TOTAL (m²)	75 m²	44 m²	3731 m²	0 m²	3775 m²	98.0%
TOTAL (%)	2.0%	1.1%	96.9%	0.0%	98.0%	98.0%

Toronto Green Standard, Elevations and Bird Friendly Statistic

As the project targeted Toronto Green Standard (TGS) v3 Tier 2, I was responsible for coordinating and completing the TGS submission forms. This involved compiling project data such as bicycle and vehicle parking counts, calculating bird-friendly elevation areas and glazing ratios, and coordinating with consultants to obtain discipline-specific metrics and statistics. The process required cross-referencing information across the architectural drawings and consultant documentation to ensure a coordinated TGS submission.



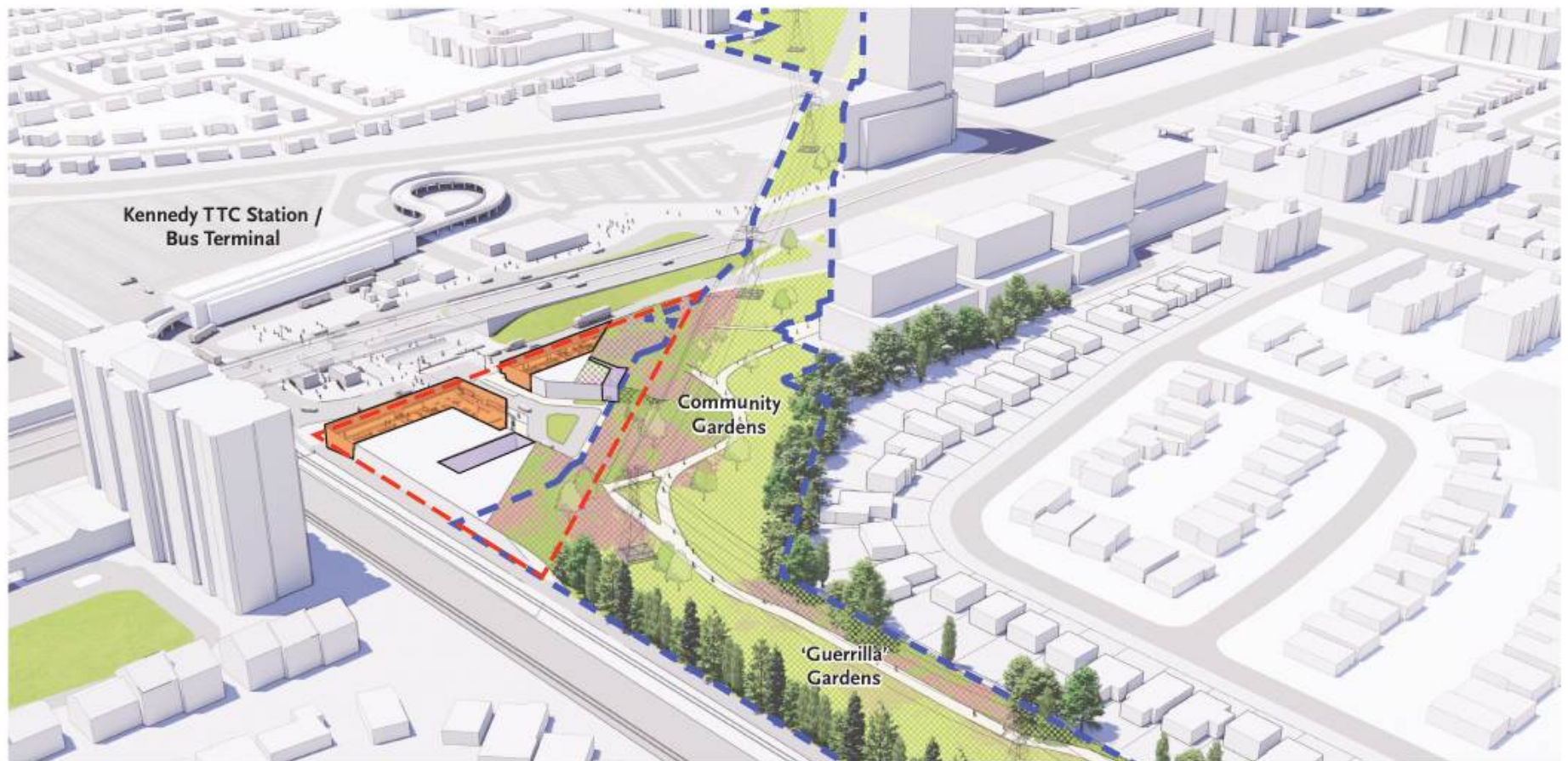
2444 Eglinton – Scarborough, ON

Responsibility: Computational Design / Graphics & Communication / Presentation Package Manager



My relocation to Toronto coincided with the launch of HPA's Toronto office and the early development of 2444 Eglinton, creating an opportunity for me to take on greater responsibility within the project. I was entrusted with leading the design narrative and client presentation package, coordinating a newly formed team and

delegating work according to individual strengths. As the project progressed into construction documentation, my responsibilities expanded to mechanical and sprinkler coordination, as well as the interior design drawing package.



Diagrams and Presentation

Leading the development of the presentation package gave me responsibility for shaping the project's design narrative, while managing a team and delegating work according to individual strengths and project timelines.

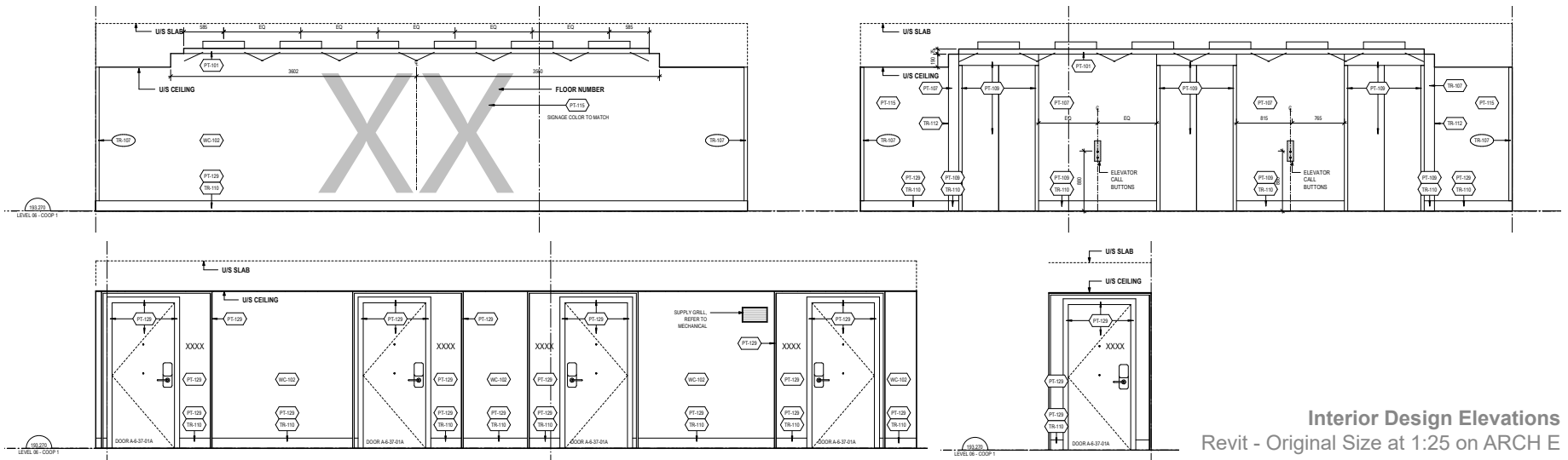
Rendering by Henriquez
Partners Architects



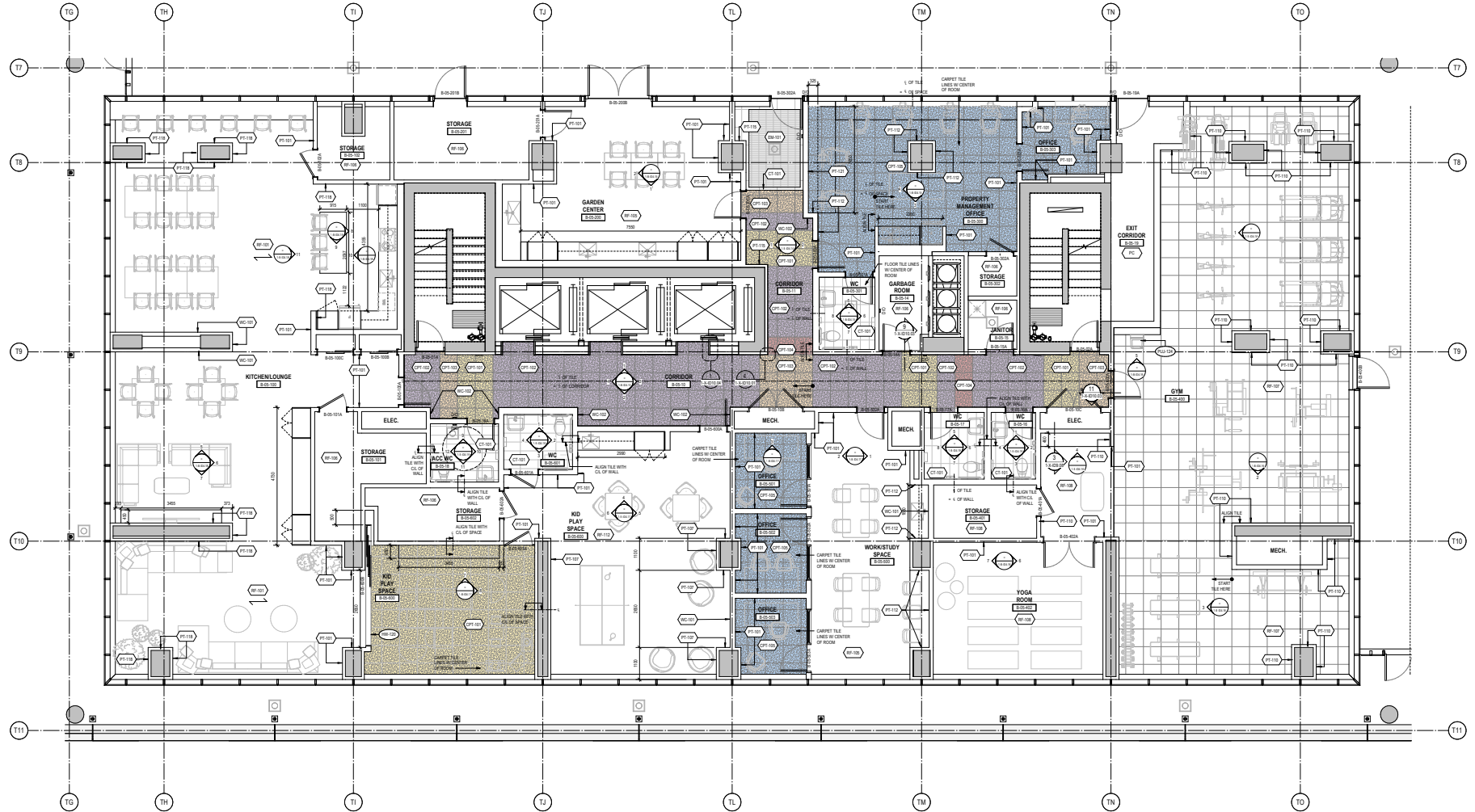
Interior Design Set

Design decisions were made from the Vancouver office of Henriquez and it was my responsibility to have them drawn in a full interior design set. The overall design strategy was the use of colours to define the tower's presence.

The interior design set included responsibility for specifications, door schedules, finish schedules, kitchen and bath schedules, as well as the general drawings for interior design.



Interior Design Elevations
Revit - Original Size at 1:25 on ARCH E



Renderings by Henriquez Partners Architects



Interior Design Plans
Revit - Original Size at 1:50 on ARCH E

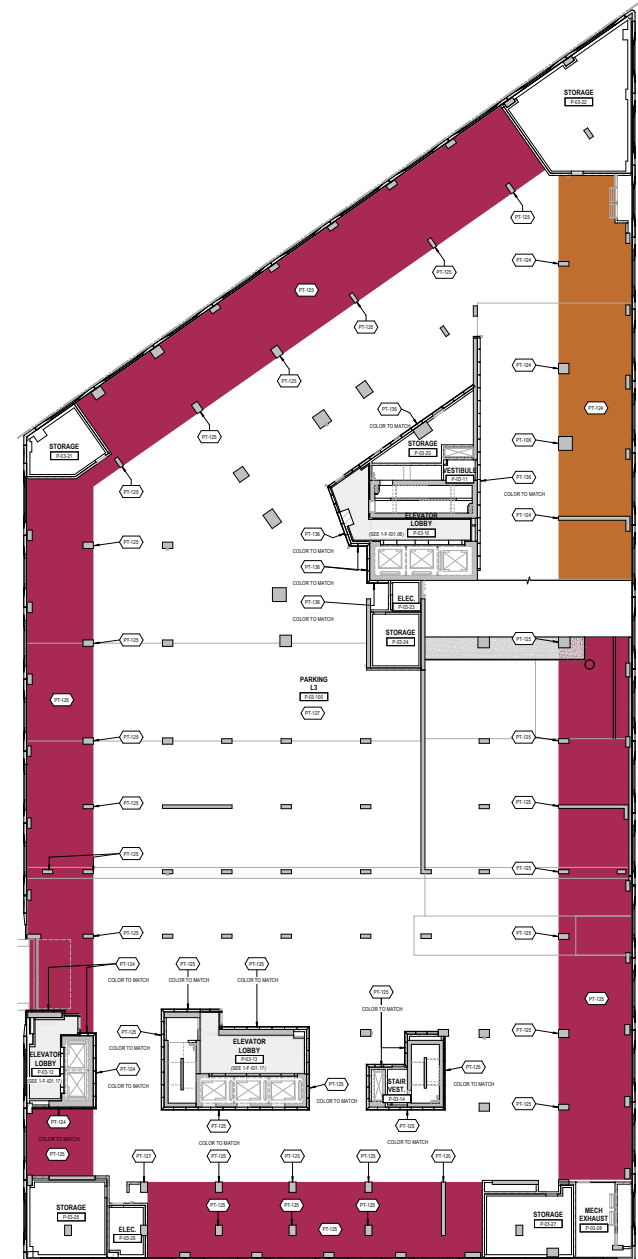
Rendering by Henriquez
Partners Architects



Car Park Ceiling Design

The car park of 2444 Eglinton stis above ground and faces the Kennedy station. Furthermore, it serves the station as well as residents of the residential towers. This creates a larger design emphasis of the ceiling of the carpark as it can

be seen from the outside as well as being a tool for wayfinding. Across shows the RCP of Level 3 parking and diagrams the use of colours at certain points of the ceiling.



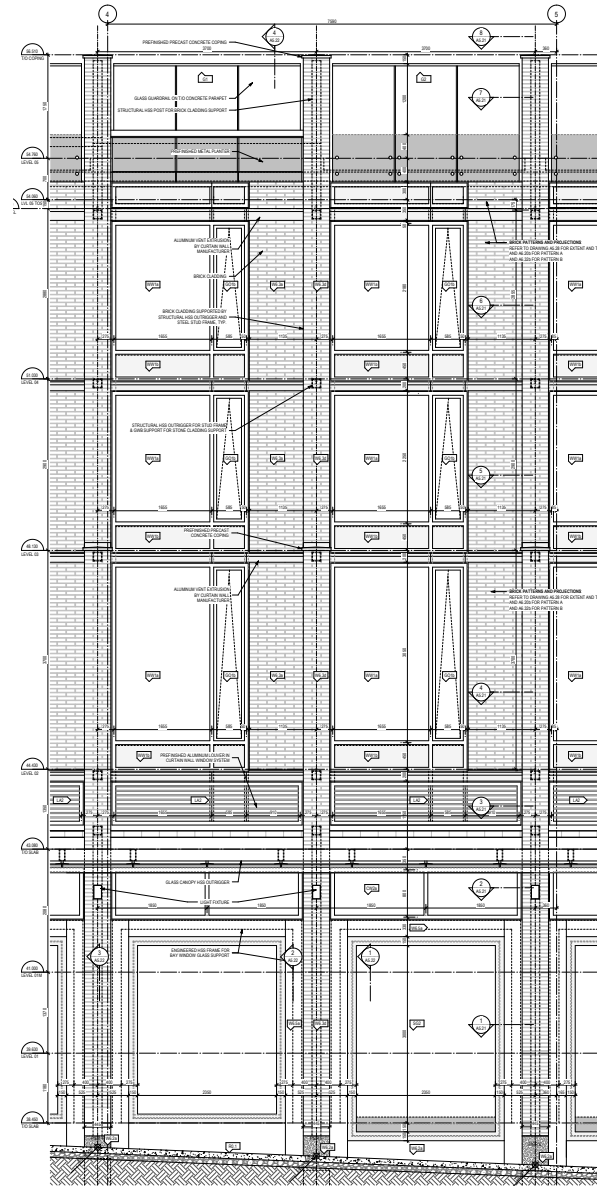
Robson – Vancouver, ON

Responsibility: Technical Drawing @ 1:25 Scale



Working from 1:5 details developed by a senior team member, I produced coordinated 1:25 building sections that referenced the detailed assemblies while maintaining live coordination with the slab-edge drawings.

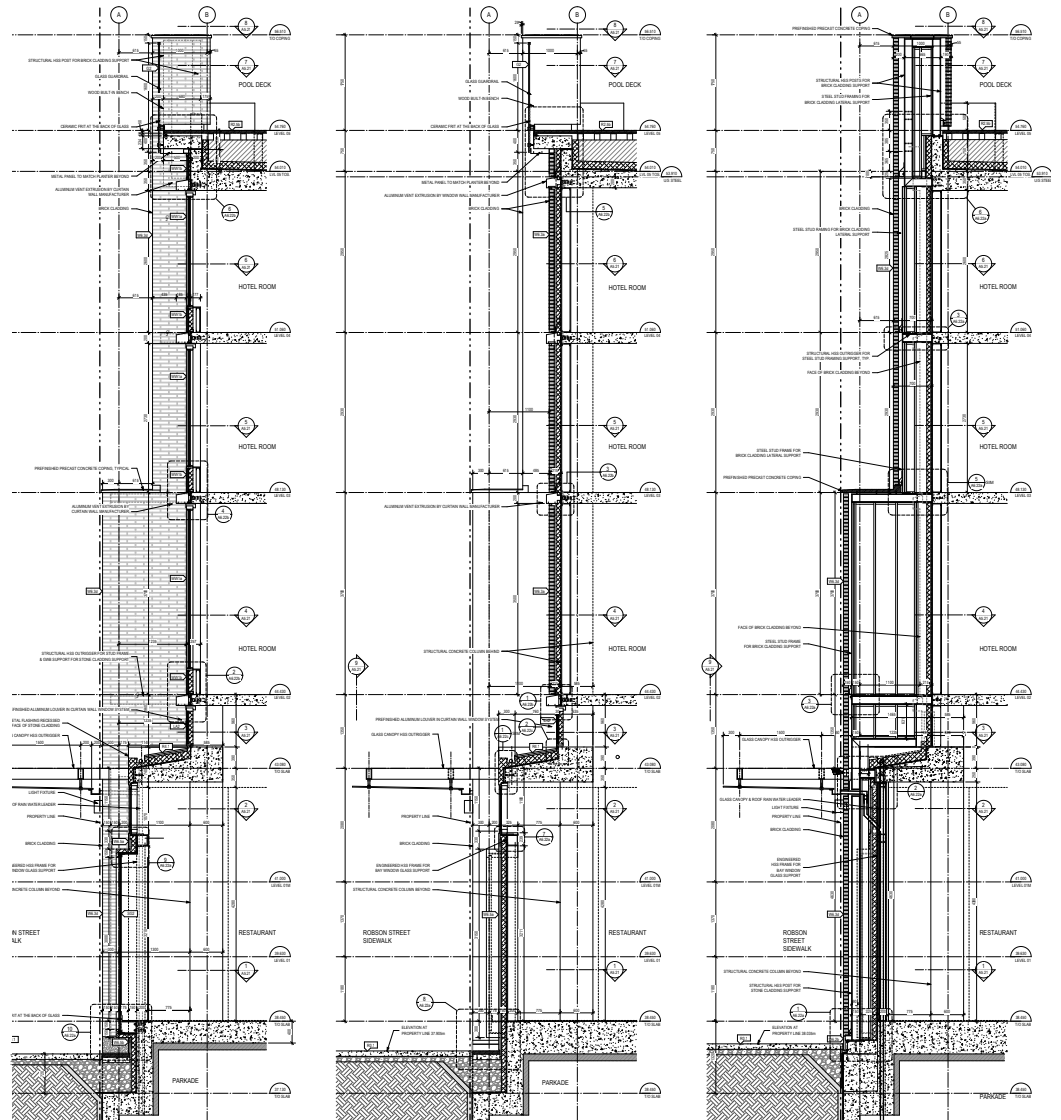
Rendering by Henriquez
Partners Architects



Original Size - Revit
at 1:25 Detail on ARCH E

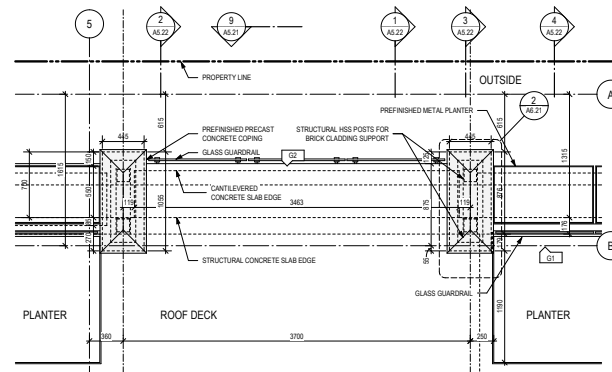
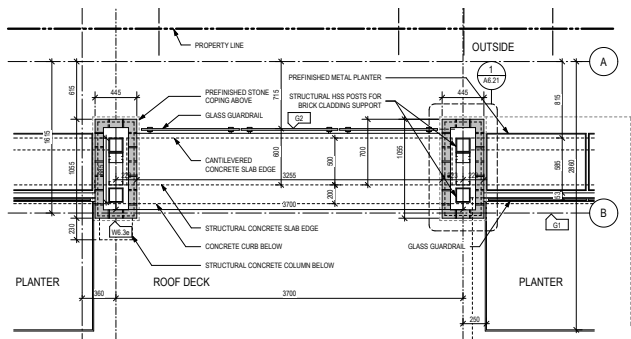
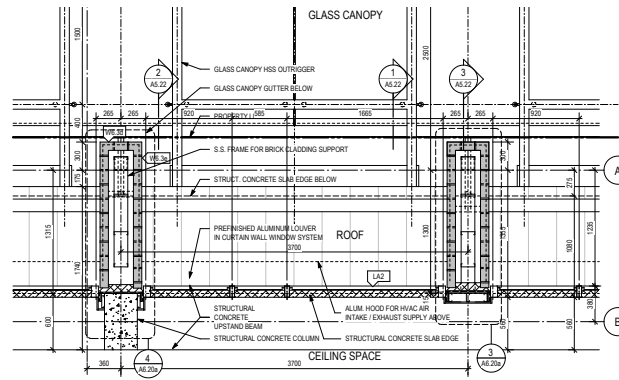
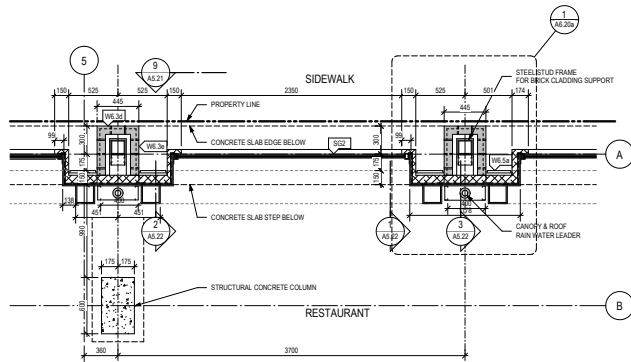
Working closely with a senior team member, I developed 1:25 details while coordinating updates across slab-edge drawings and corresponding 1:5 details. As issues emerged, I documented questions and brought them to daily team discussions, allowing technical challenges to be reviewed and resolved collaboratively.

Rendering by Henriquez
Partners Architects



Brick Pier Sections
Revit - at 1:25 Detail on ARCH E

Rendering by Henriquez
Partners Architects



Original Size - Revit
at 1:25 Detail on ARCH E

Periodically, the brick piers will feature planters. These planters will be held up using HSS beams. In turn the HSS will be tied back to the main structure. Steel stud framing will also be used to carry lateral brick loads. This expression carries on down to the Ground Floor.

COMPETITION ENTRY: BASTION

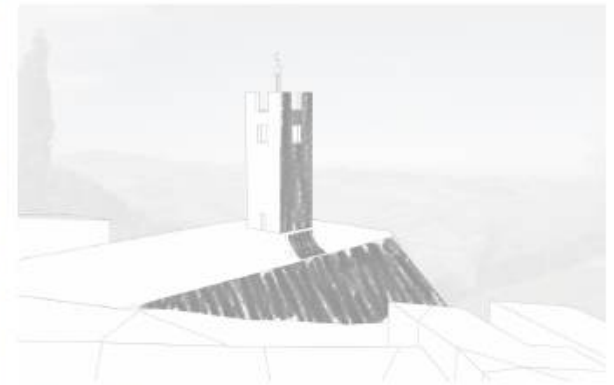
Finalist | 2026

Site: Peglio, Italy

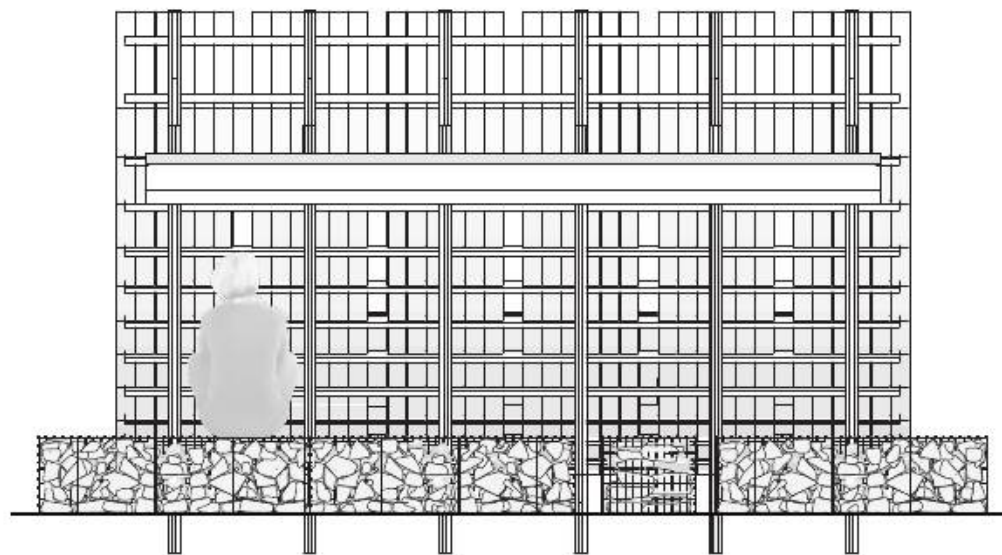


Perched on a flattened hilltop, Torre Campanaria Peglio holds a tension between exposure and refuge. The bell tower stands as a solitary sentinel overlooking a landscape shaped by gradient and distance.

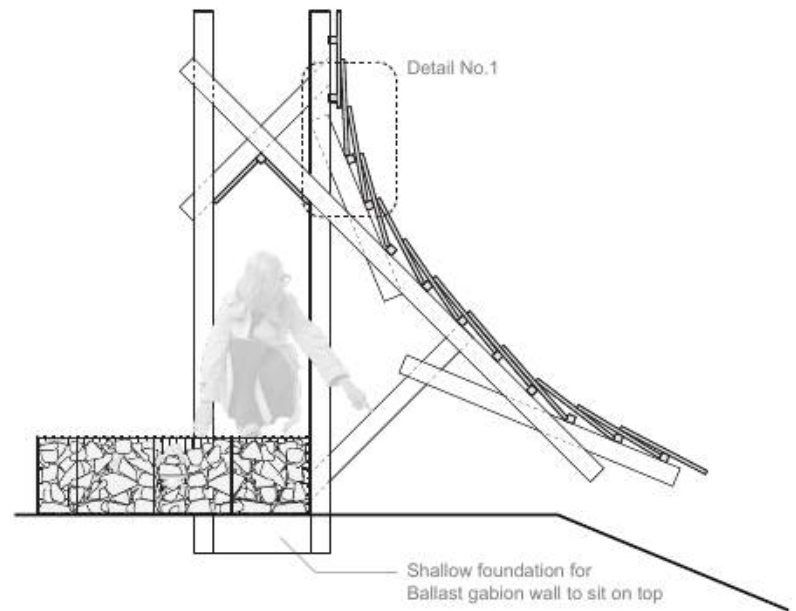
Bastion echoes this condition, reinterpreting the logic of fortification.



The steep approach recalls a defensive glacis, while at the summit the pavilion anchors itself as a continuation of the landscape's defensive geometry.

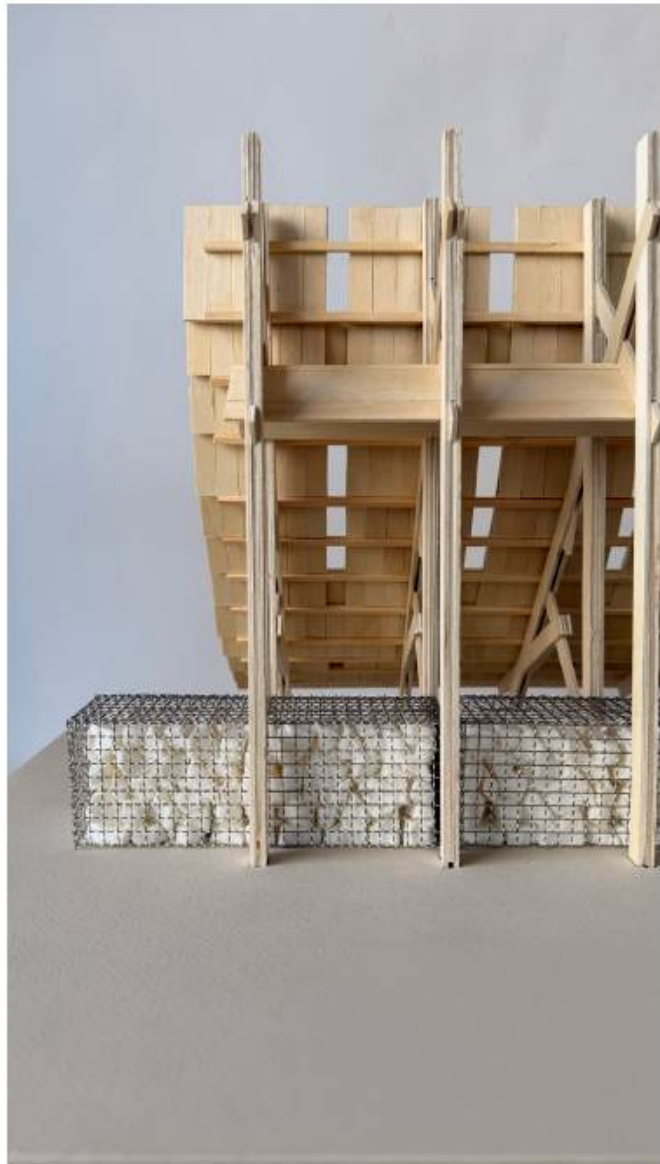


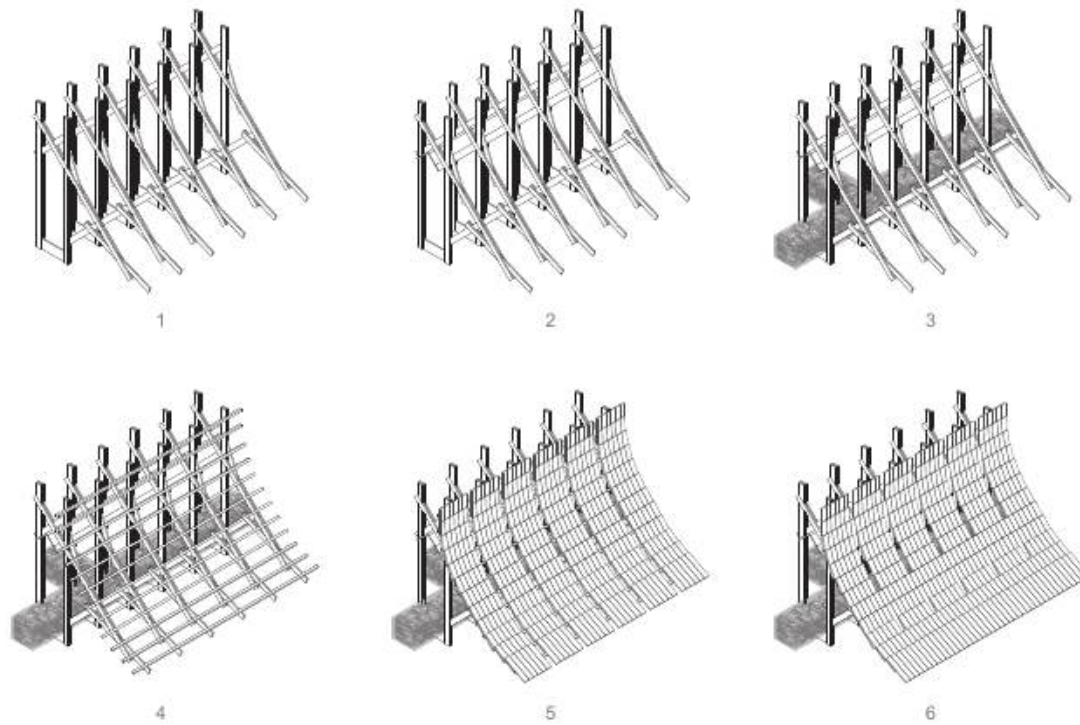
Longitudinal Section



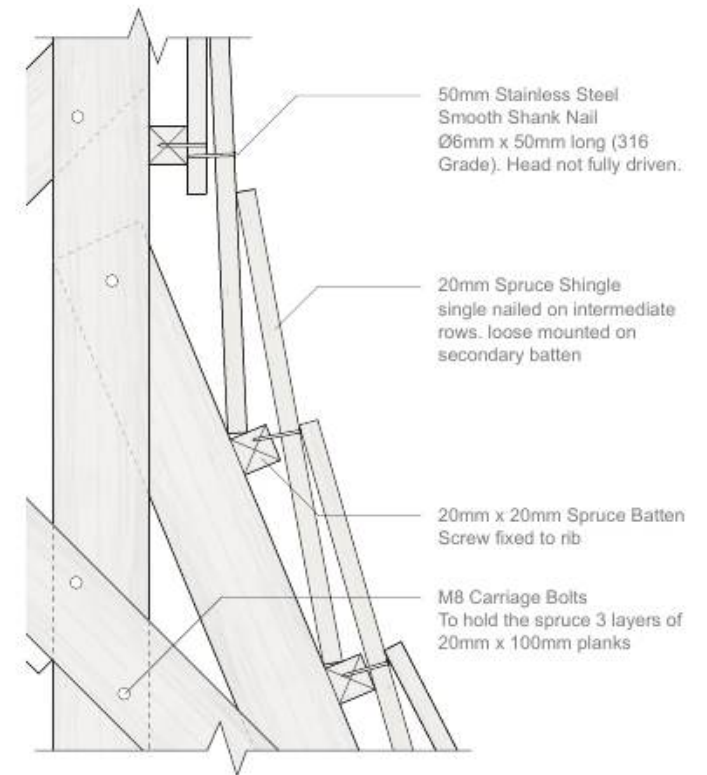
Cross Section







Construction Sequence

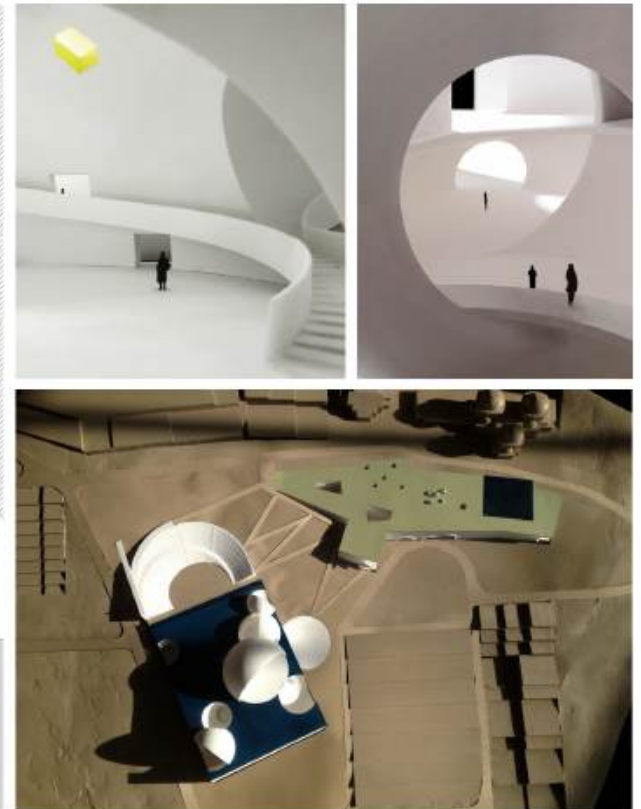
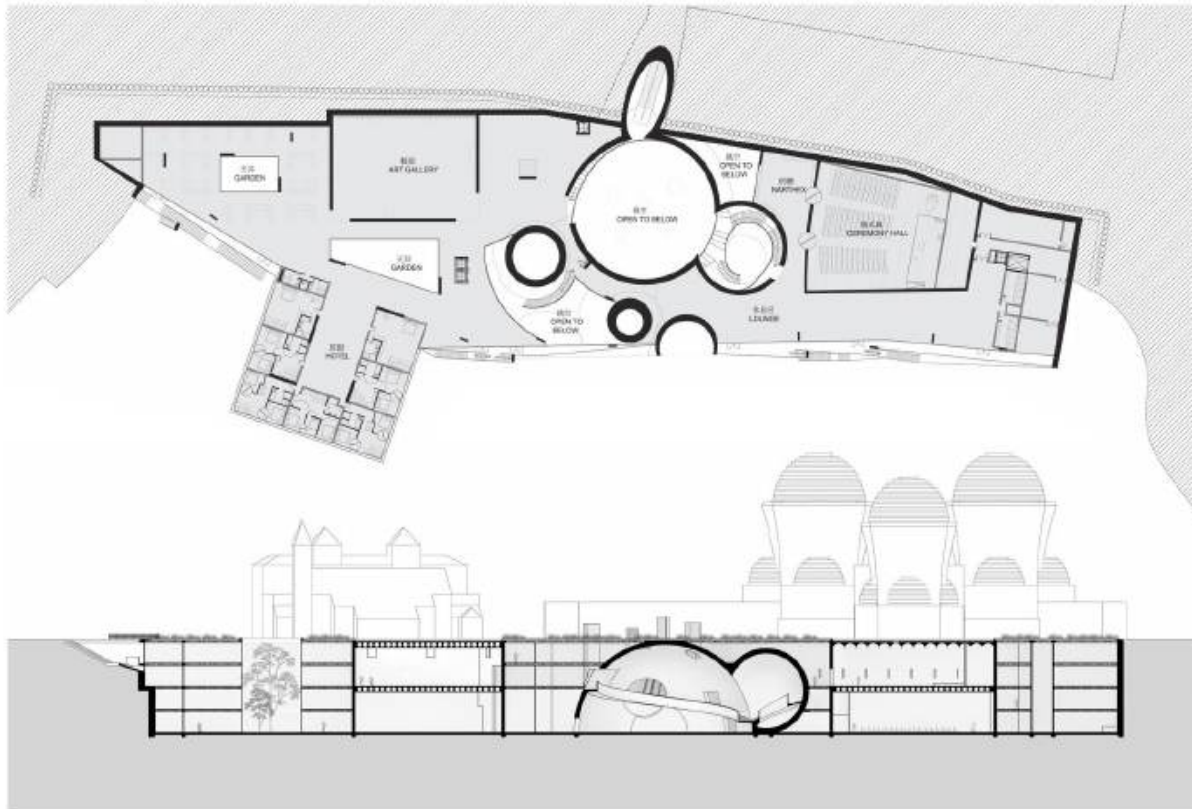


Detail One - 1:5 Section Detail

STEVEN HOLL ARCHITECTS

Architectural Assistant | 2013 to 2014 - Beijing, China

Responsibility: Computational Design / Architectural Drawings / Graphics & Communication / Physical Model



Model Making, Drawings and Cross global coordination

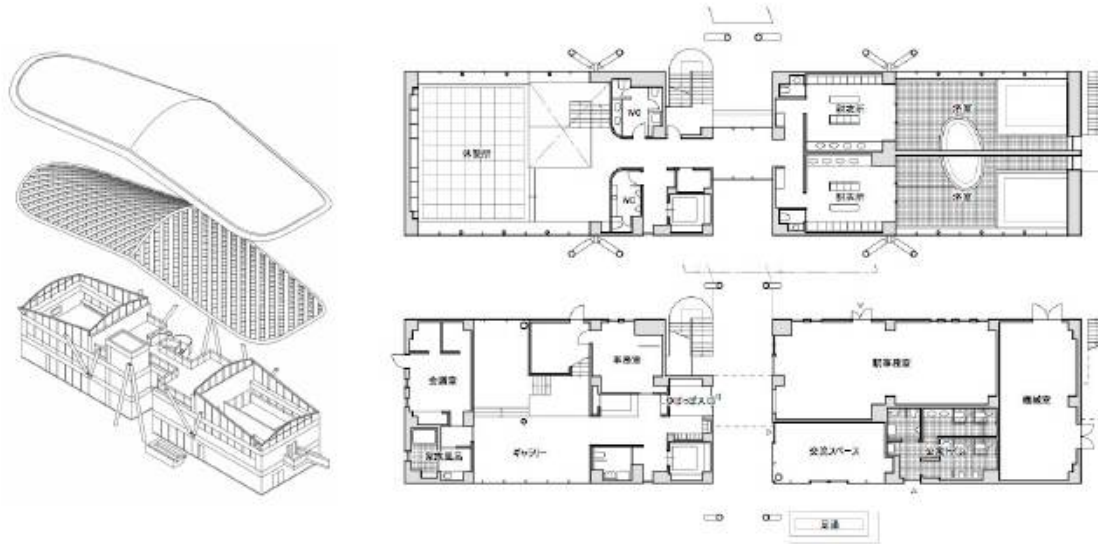
Working closely with Steven Holl and team members across the New York and Beijing offices, we translated design ideas into physical models and photography in real time. The fast-

paced, international collaboration strengthened my ability to communicate and deliver under pressure.

SHIGERU BAN ARCHITECTS

Architectural Assistant | 2013 - Tokyo, Japan

Responsibility: Architectural Drawings / Graphics & Communication / Physical Model



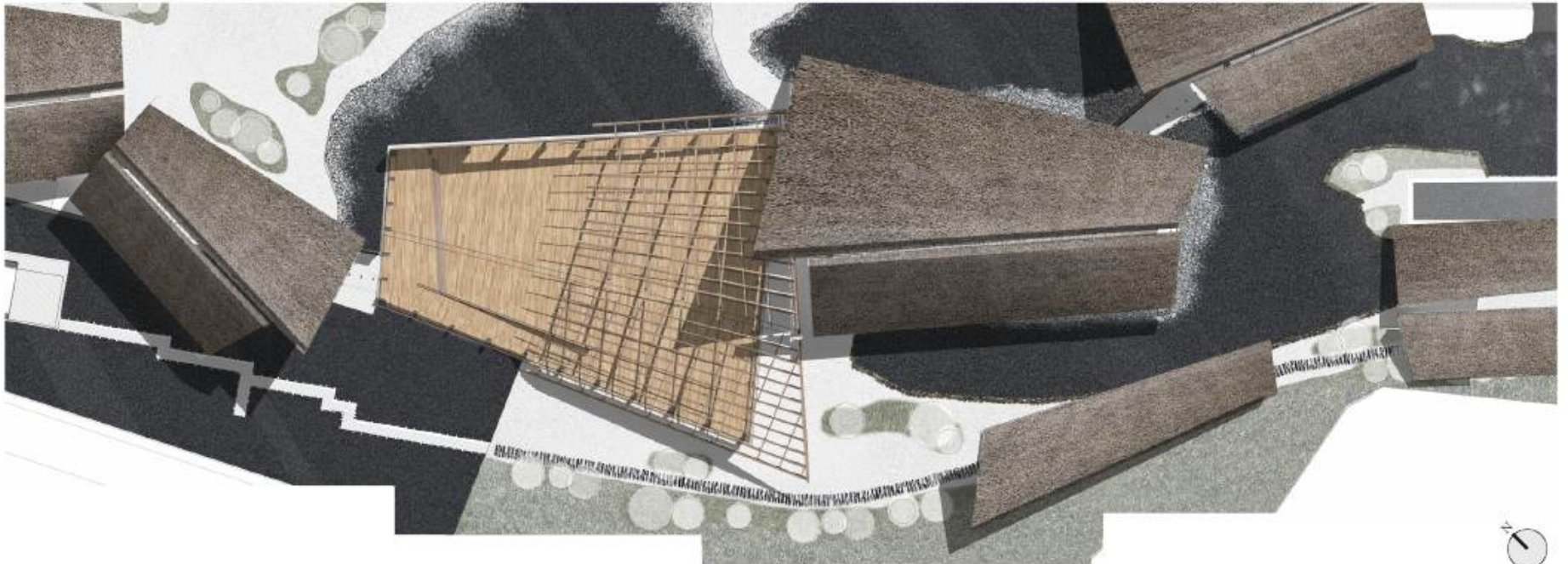
Plans and Axo - AutoCAD

Under the guidance of senior team members, I produced plans and axonometric drawings to communicate the building's form and geometry. I was also responsible for constructing a 1:200 physical model, with the sculpted roof of the train station presenting a particularly challenging and rewarding model-making exercise..



BORROWED SCENERY: MIYATO SALT FARM ONSEN

SOM UK Award Winner | EUMies Awards - Fundació Mies van der Rohe Shortlisted | RIBA President Award Nominated





View down the Miyato Island Valley - Photoshop



The Great Halls



The Bathhouses



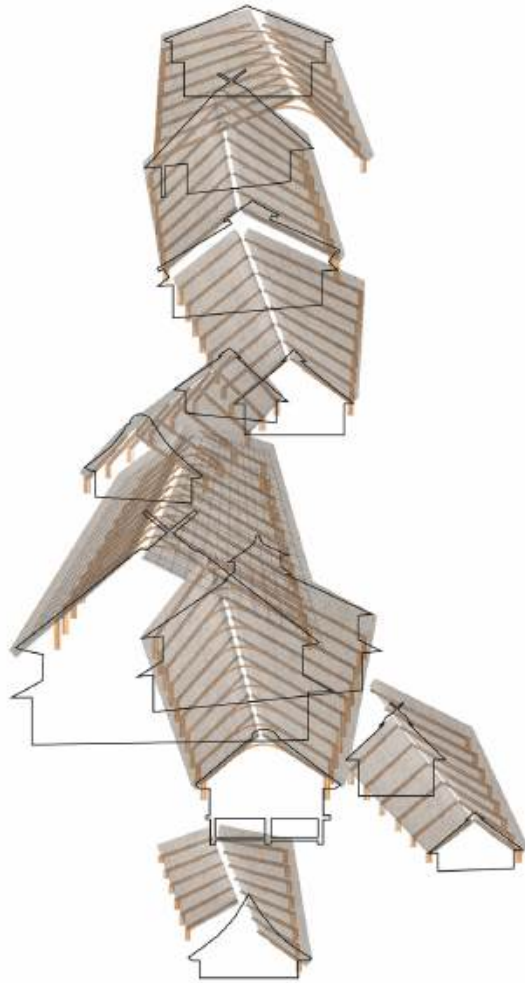
The Salt Farms

The Premise

This proposal seeks to support the restoration of Miyato Island after the 2011 Tohoku Tsunami in Eastern Japan. Currently, a 40 km long seawall drafted up by the Japanese government is being constructed

to provide protection for the people in coastal Japan; ranging from 7 meters to 14 metres high - blocks off views out to the sea, putting the island's identity of being of unparalleled natural beauty at stake. This

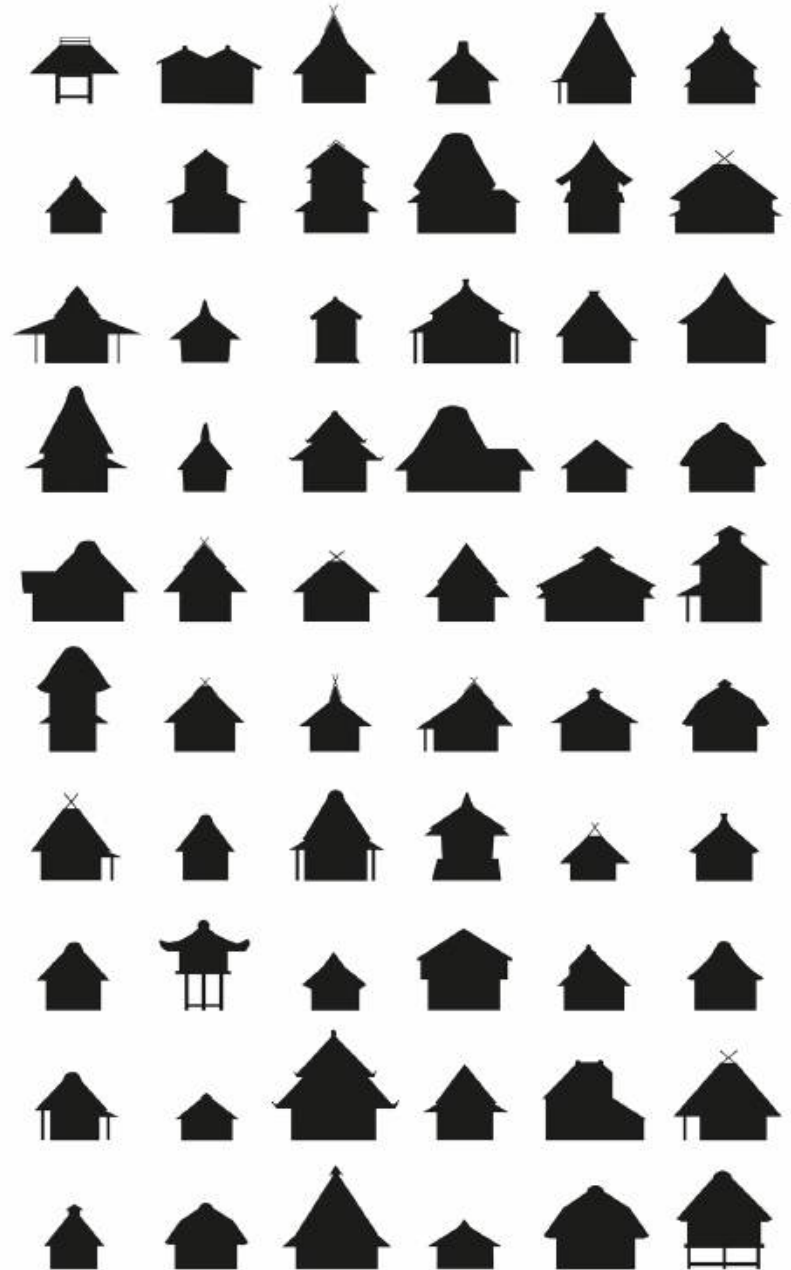
lyrical proposal explores in depth the relationship of government's ambition and the island's integrity; the project does not seek to challenge but rather to synthesize the two seemingly opposing aspects.

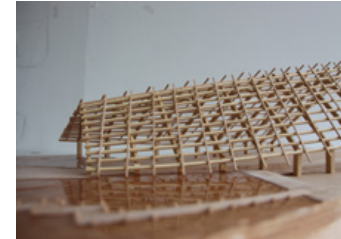
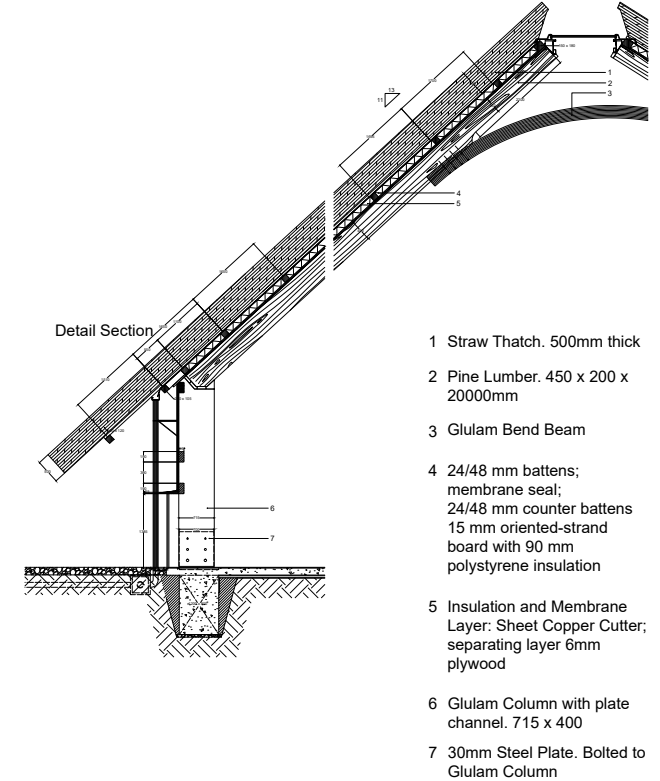


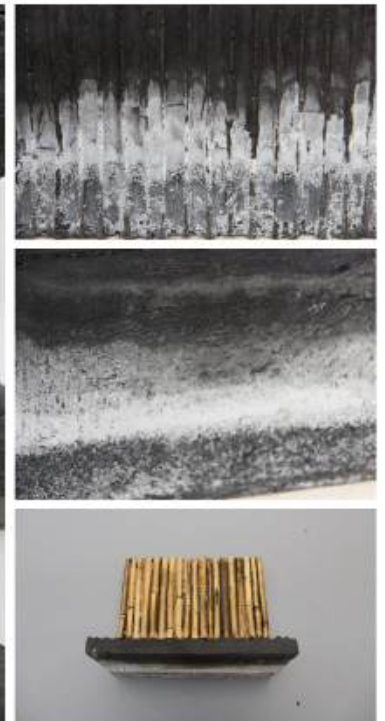
Roof and Landscape

The form of the roof is a combination of extruding various roof shapes of Japanese vernacular houses. This was to have a shape that would not only be culturally

relevant, but also by extruded varying height - to get a streamlined roof shape that allows typhoons and strong winds to flow past aerodynamically.







Material Studies

By using bamboo formwork, a concrete with characteristic of bamboo is produced. These samples are done with oyster shells and iron oxide (for the coloring of concrete). What is significant of bamboo form work is that it produces 'fins'

of which concrete is still porous, allowing capillary action to take place - leading salt up the wall. This is used later for the bath house. By polishing the concrete using diamond sanding pads brings out the inherent beauty of the oyster shells as well.