architecture portfolio.

2022-2024

Ekta Chavda

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Hydro One
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Architecture Design project

Hydro One - Southwestern Ontario Region Administration Building

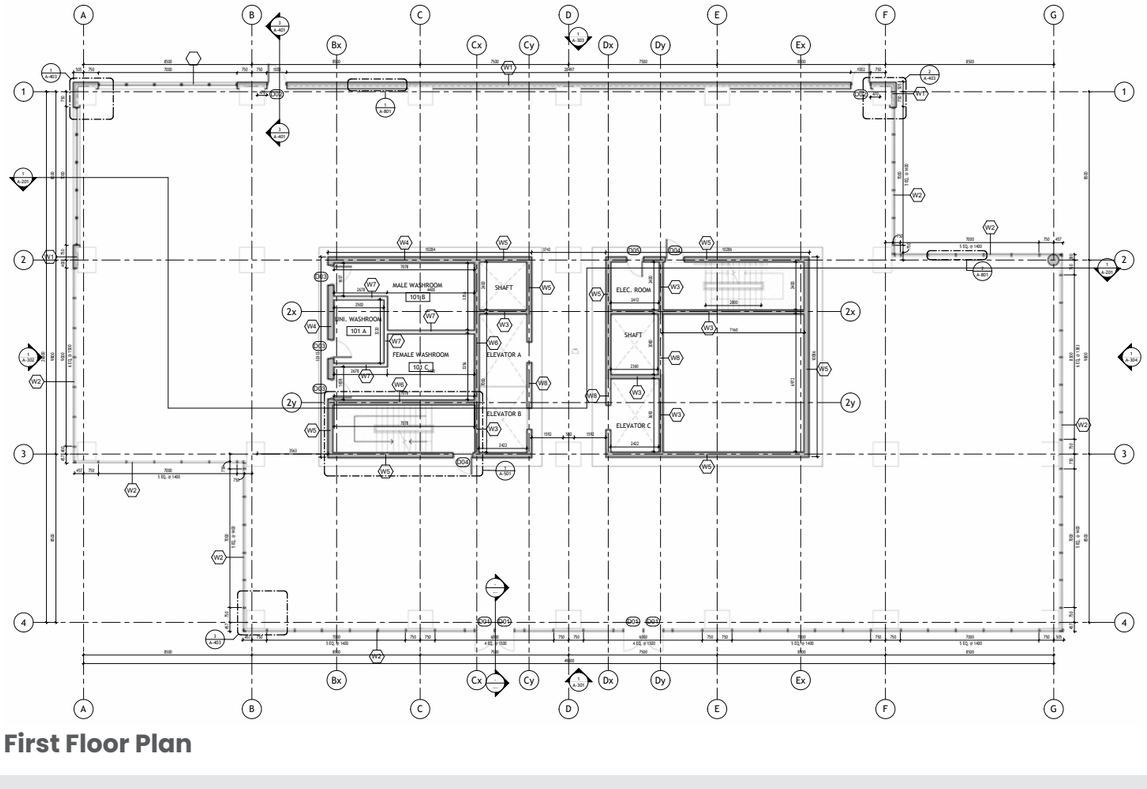
01

Academic Project
Working drawing project
new building Construction
7 Story Office and Commerical Building
1990 Oxford Street East, London, ON
2024

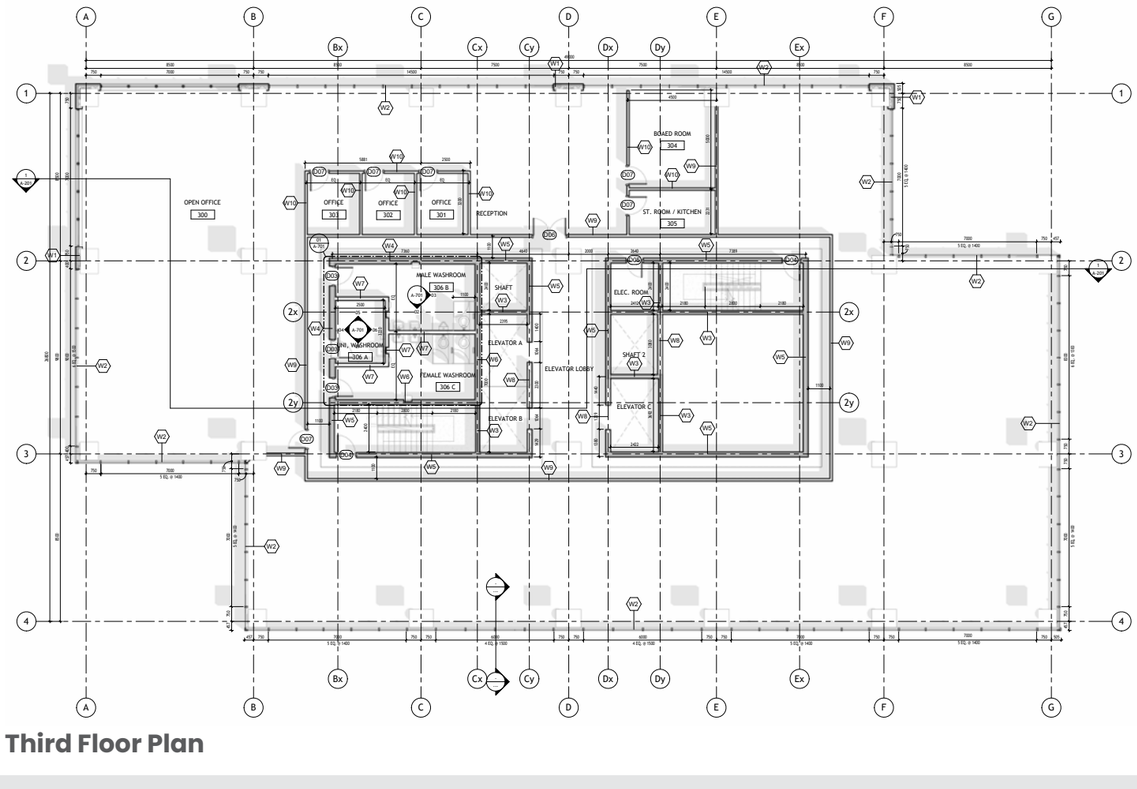
Softwares used:
Revit
Enscape
Adobe Photoshop

Hydro One is Ontario’s largest electricity transmission and distribution service provider. They require as new business administration building to support the Southwestern Ontario region. They have recently acquired a property located at 1990 Oxford Street East, in the City of London, Ontario. This location was formerly a landscaping supply store. They want to include a sustainable green roofing system, accessible to building occupants and provide a combination of surface and underground parking. The ground level will be leased as commercial space to offset some of the building operation costs and to integrate the building as part of the local community.

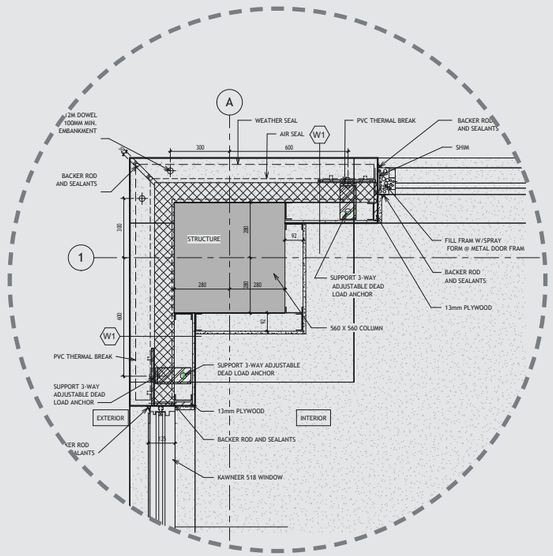


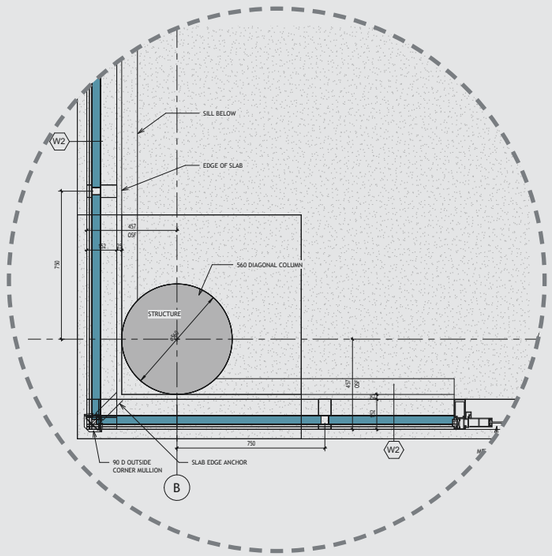


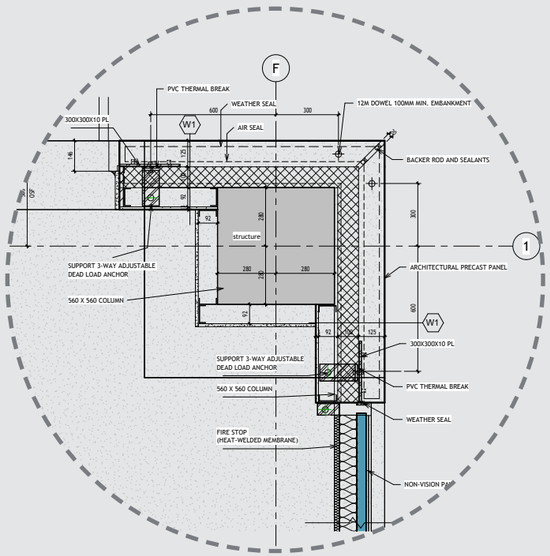
First Floor Plan

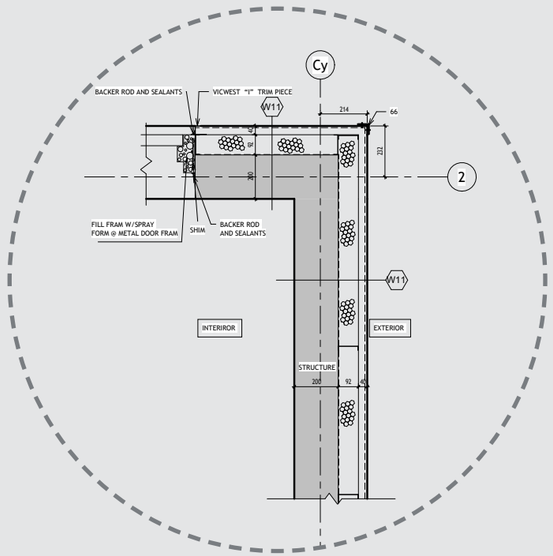


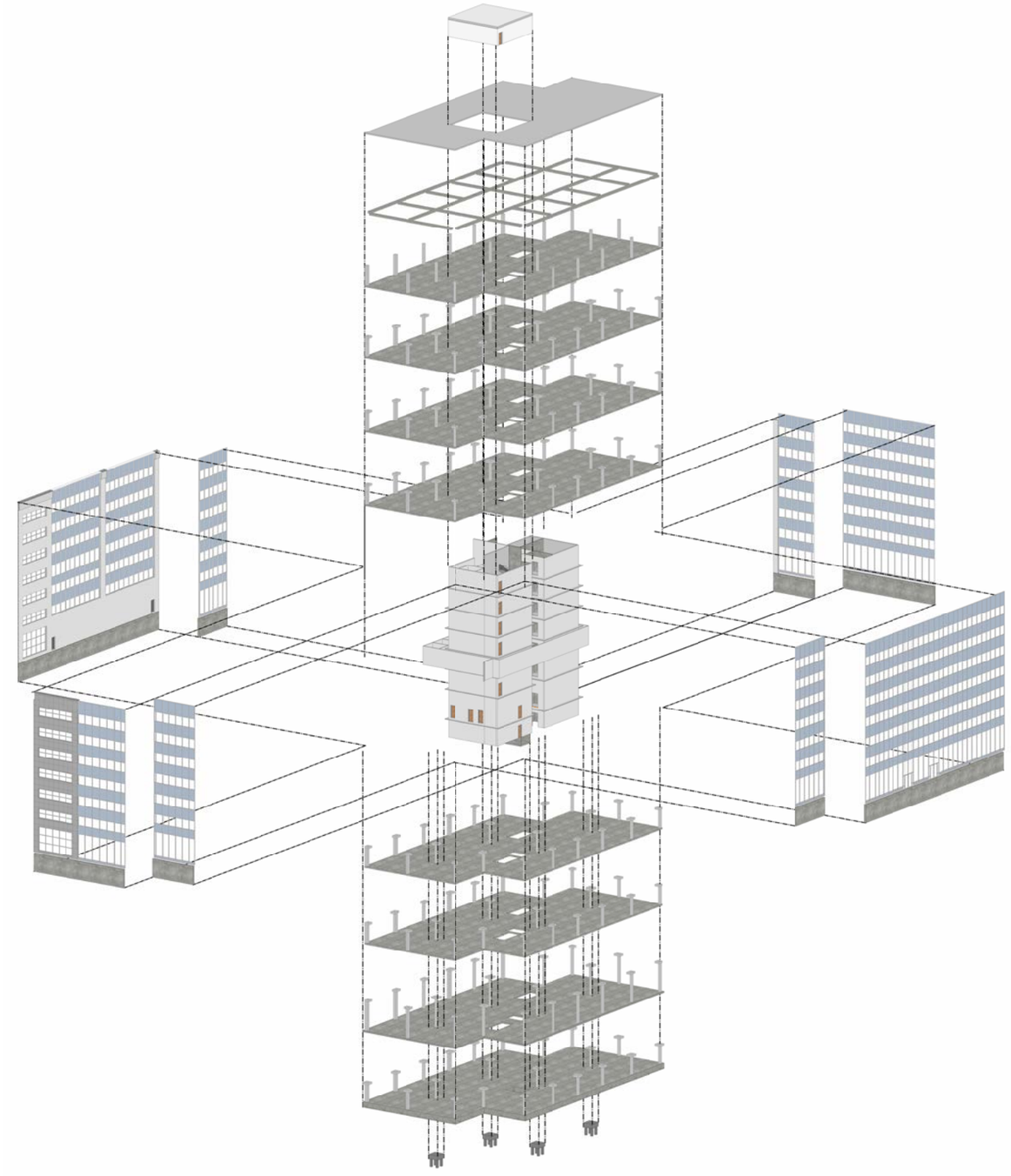
Third Floor Plan



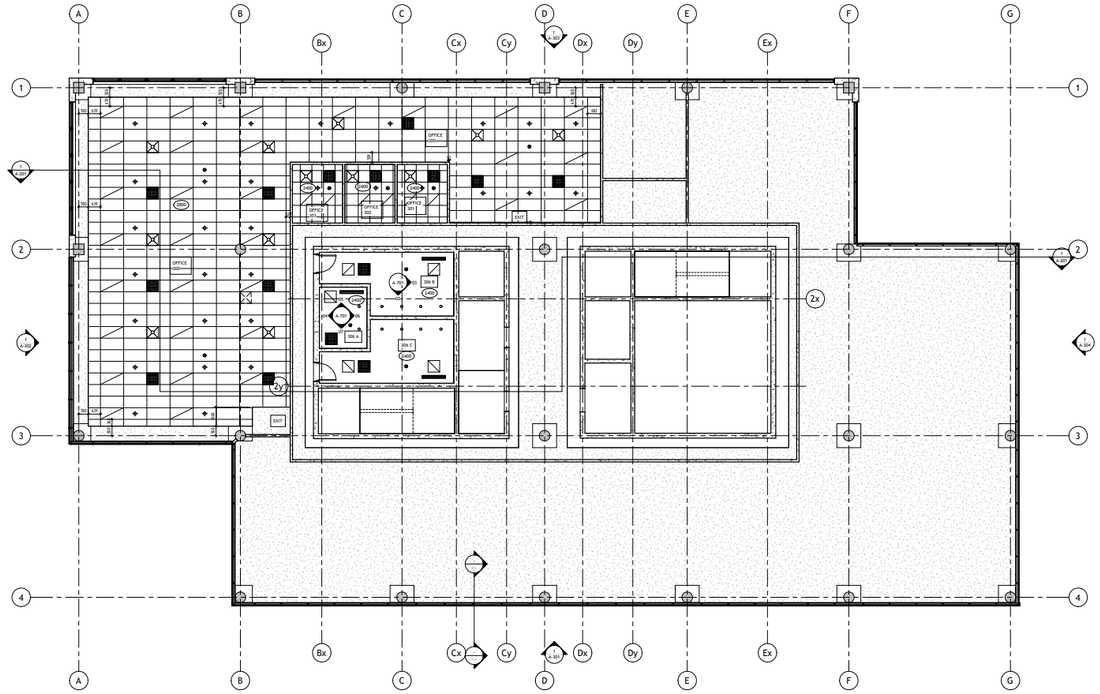




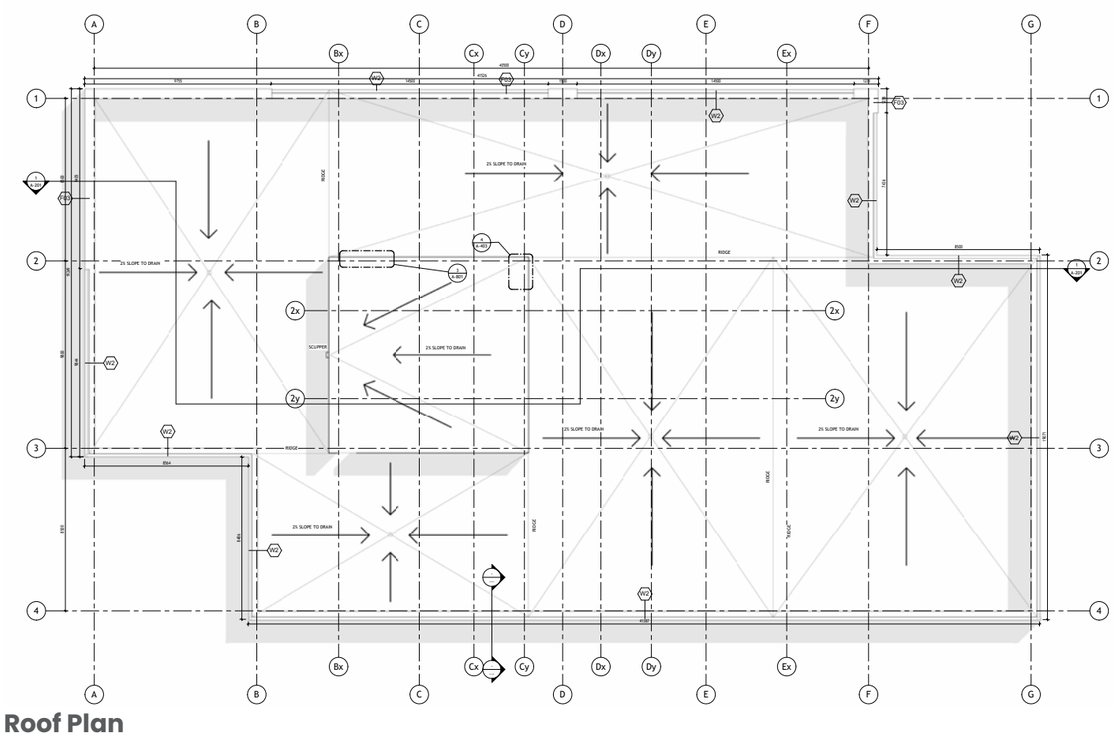




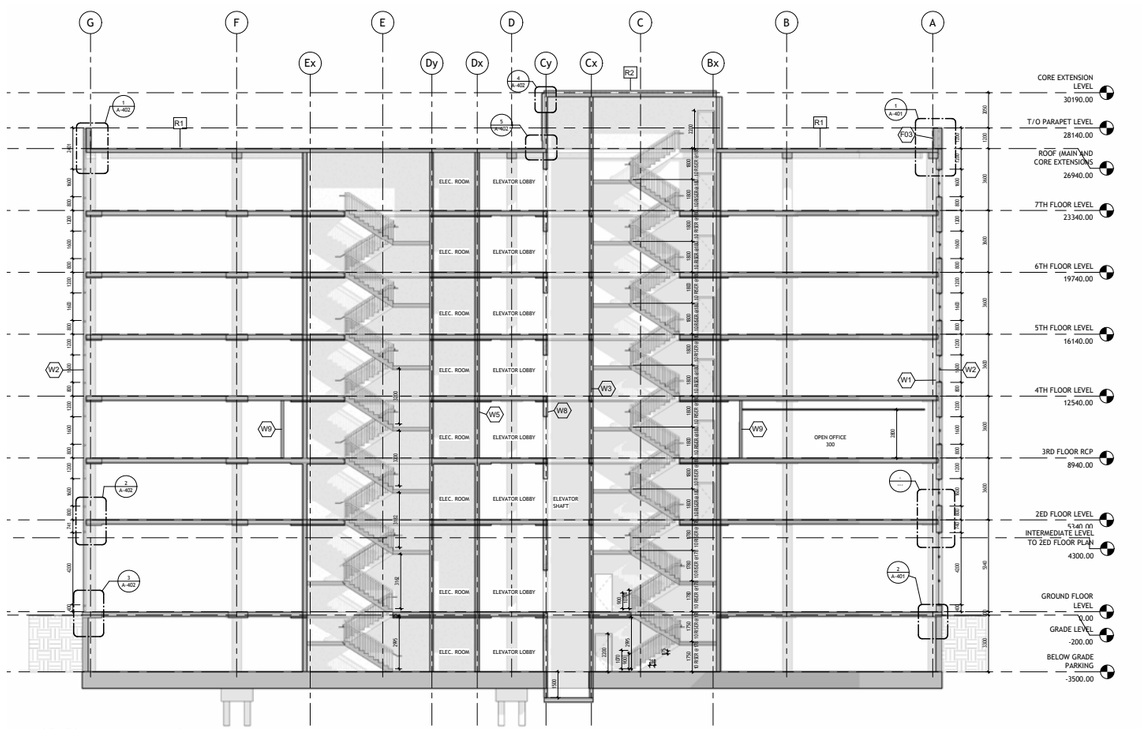
Exploded view



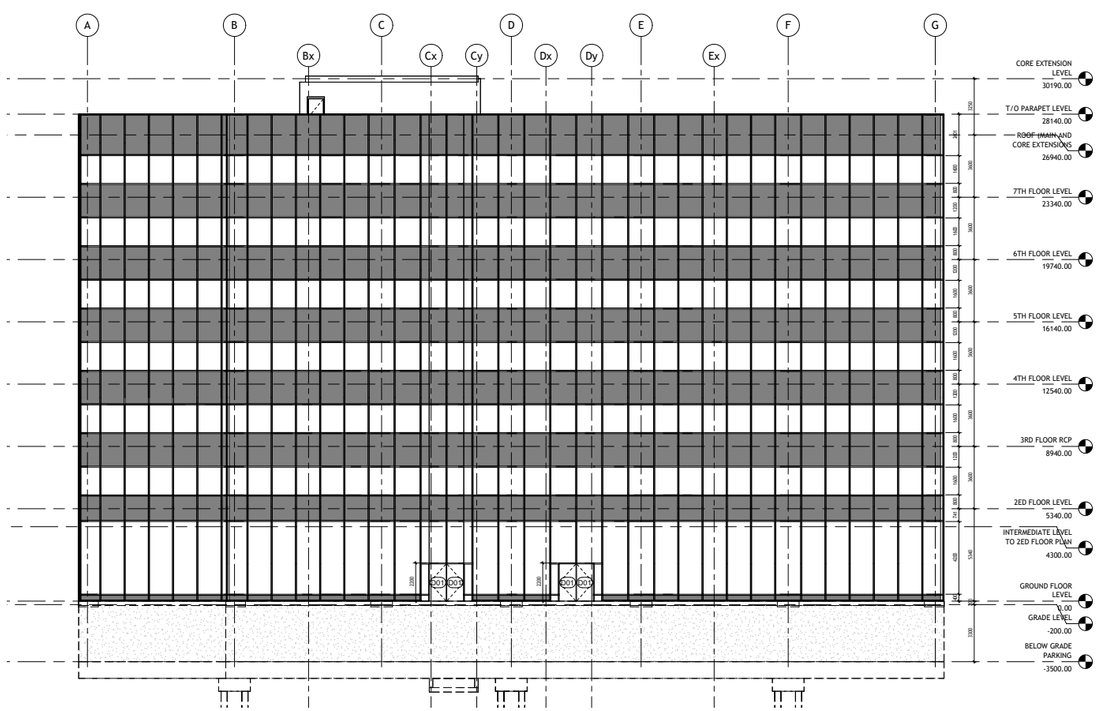
Reflected Ceiling Plan



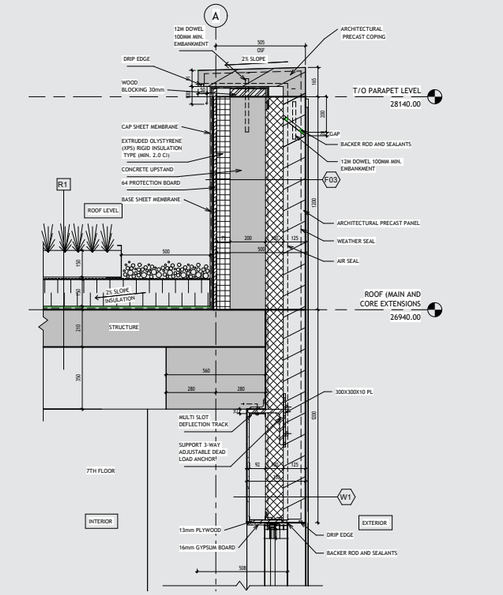
Roof Plan

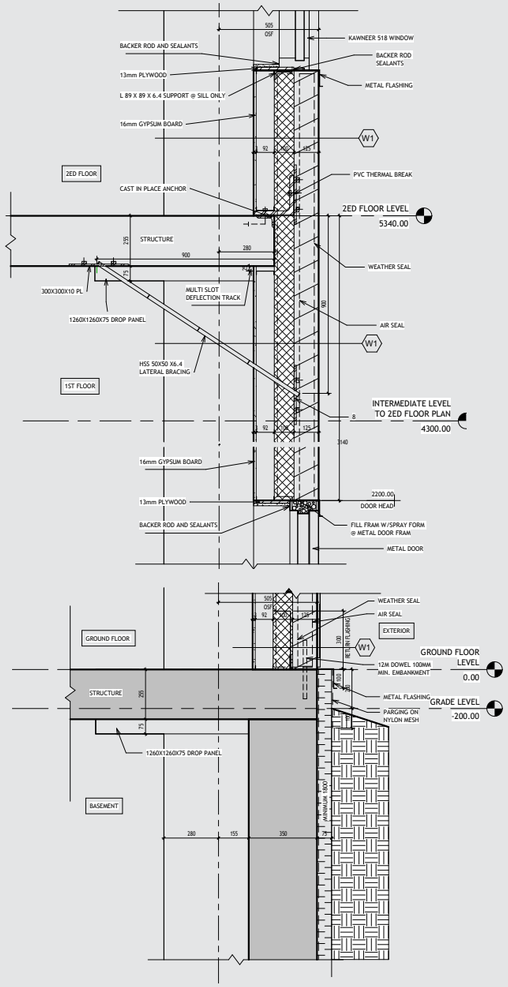


Building Section



Front Elevation





Wall Section



Shared Government Services Emergency Management and Vehicle Repair Facility

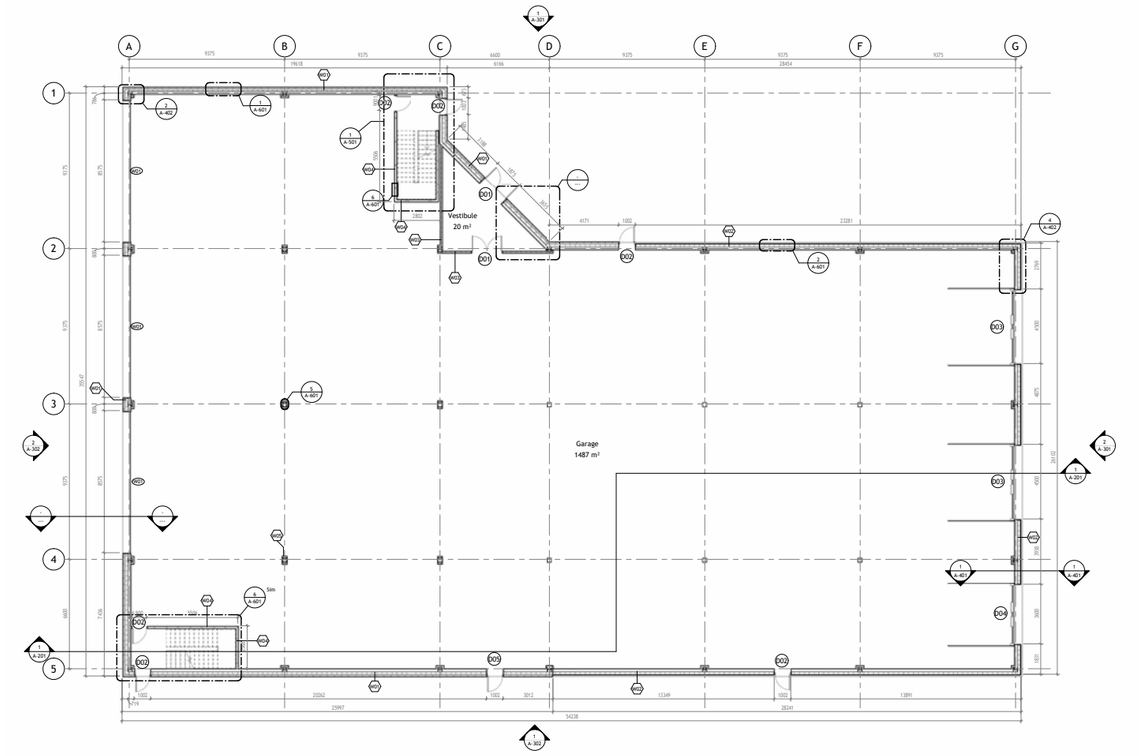
02

Academic Project
Working drawing project
New building Construction
2 Story Repair Garage administration and management (logistics and dispatch) offices.
Town of Petawawa, ON
2024

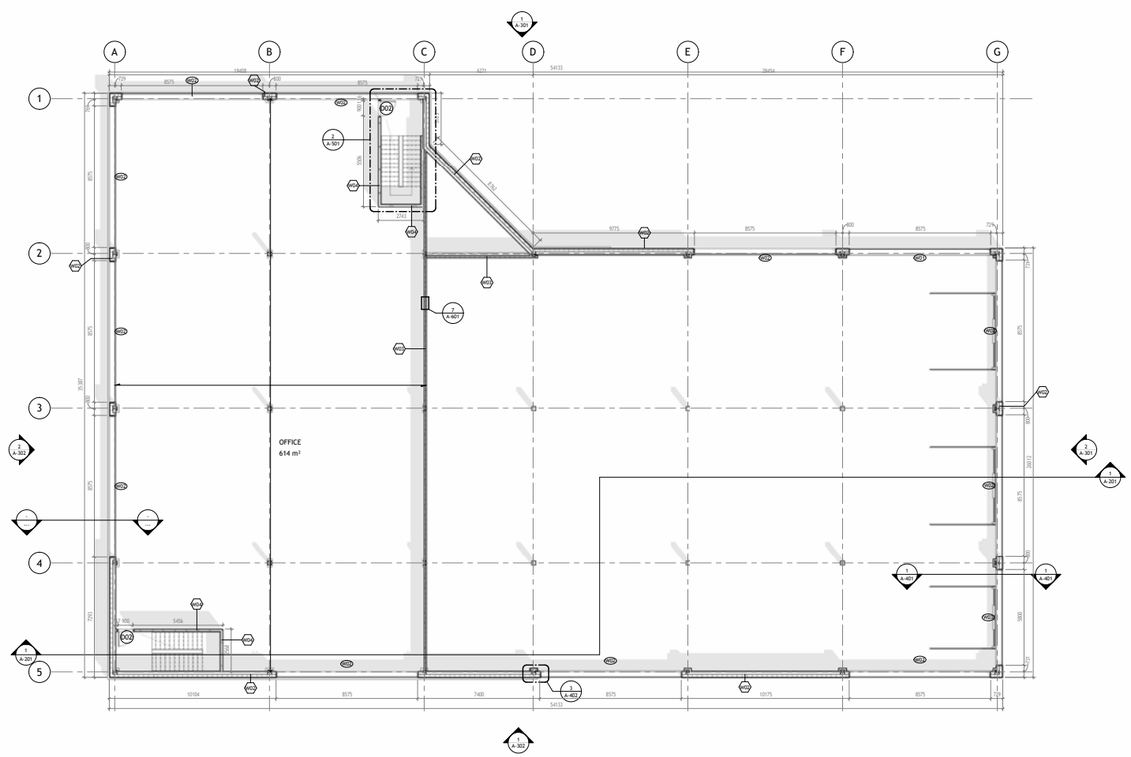
Softwares used:
Revit
Enscape
Adobe Photoshop

Province of Ontario Equipment Repair Facility is a project located in Kingston Ontario. In the final Level of studies we were introduced to this project which was a Storage facility with the office buildings. The classification of the building was 'F1' with offices as 'D'. The task was to understand the construction asseblies and how are placed together. started with hand sketching and went on digitally to create accurate Revit model which contains every major connection of the construction assembly. I created hand sketches, did calculations for the stairs, filled the OBC data matrix, and generated a sheet set for the draw-ings. Revit and AutoCad were mainly used to produce the details as necessary.

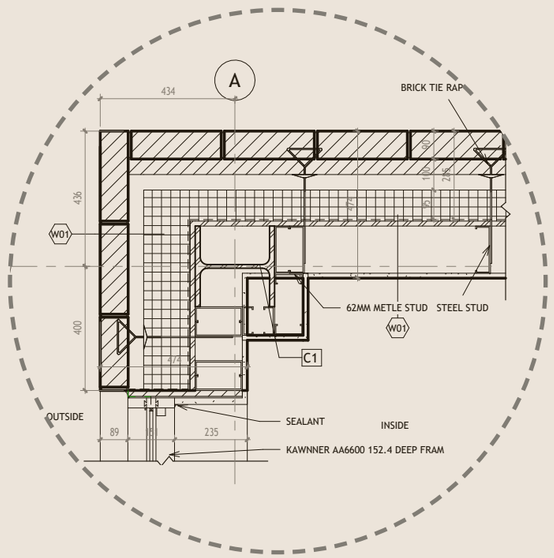


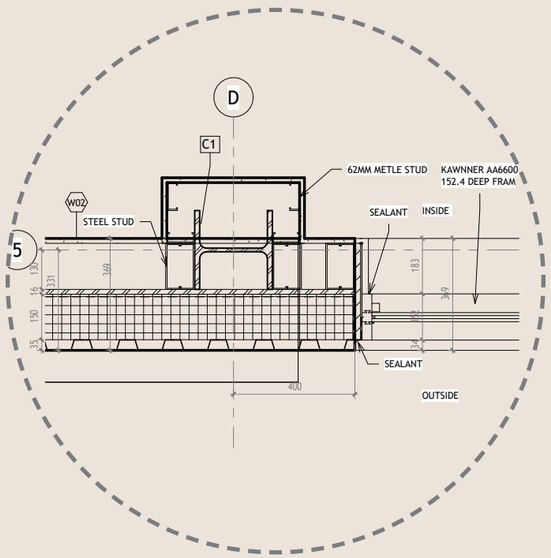


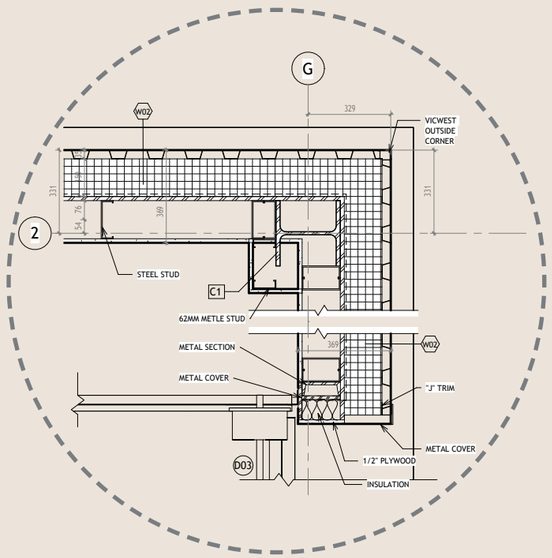
First Floor Plan

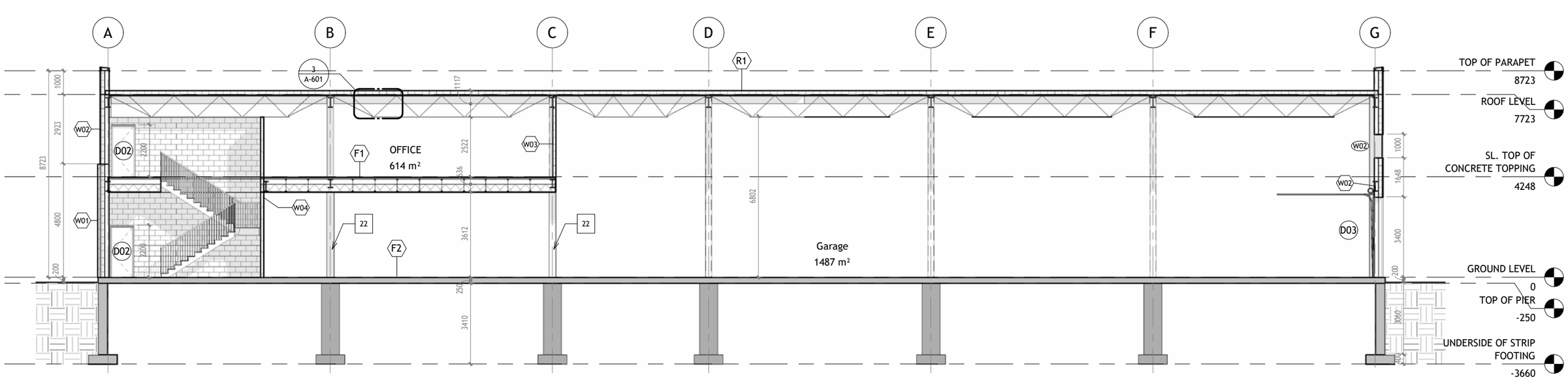


Second Floor Plan

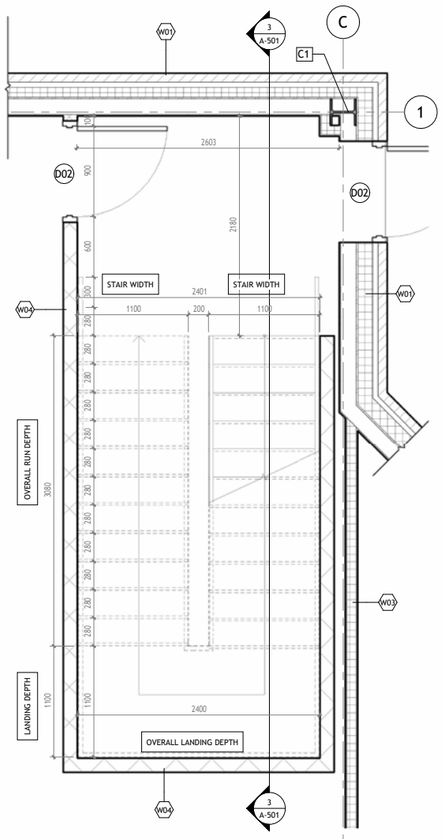




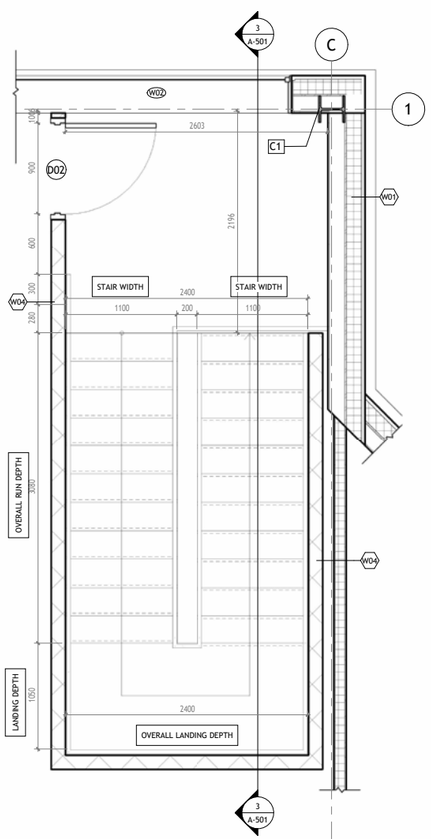




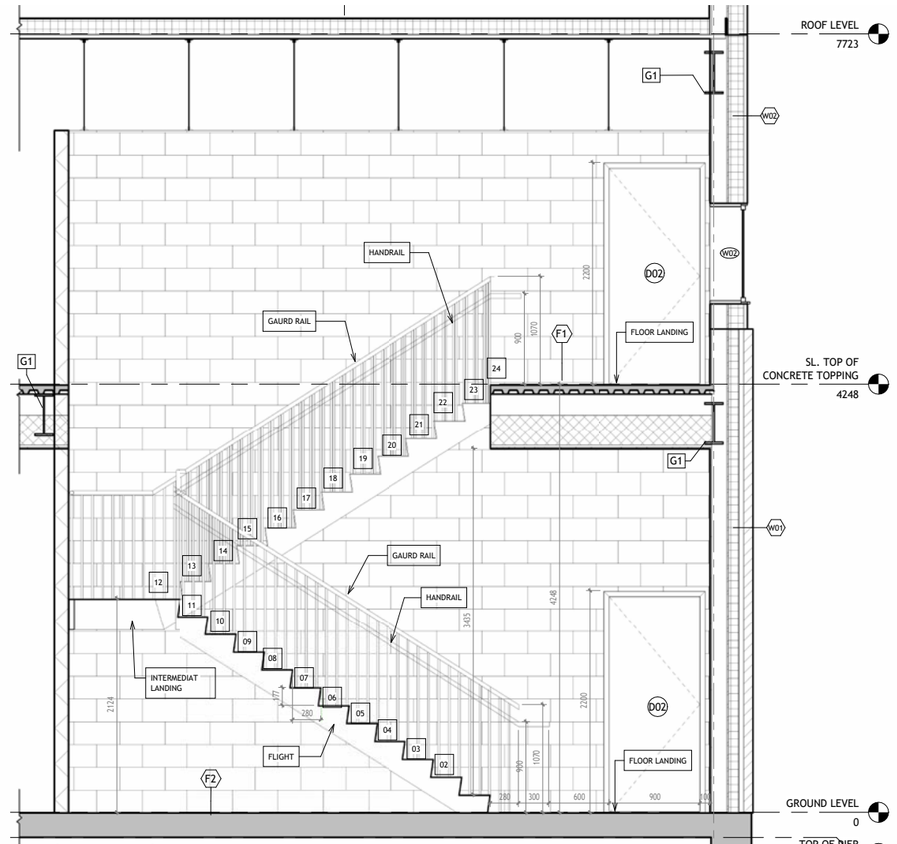
Building Section



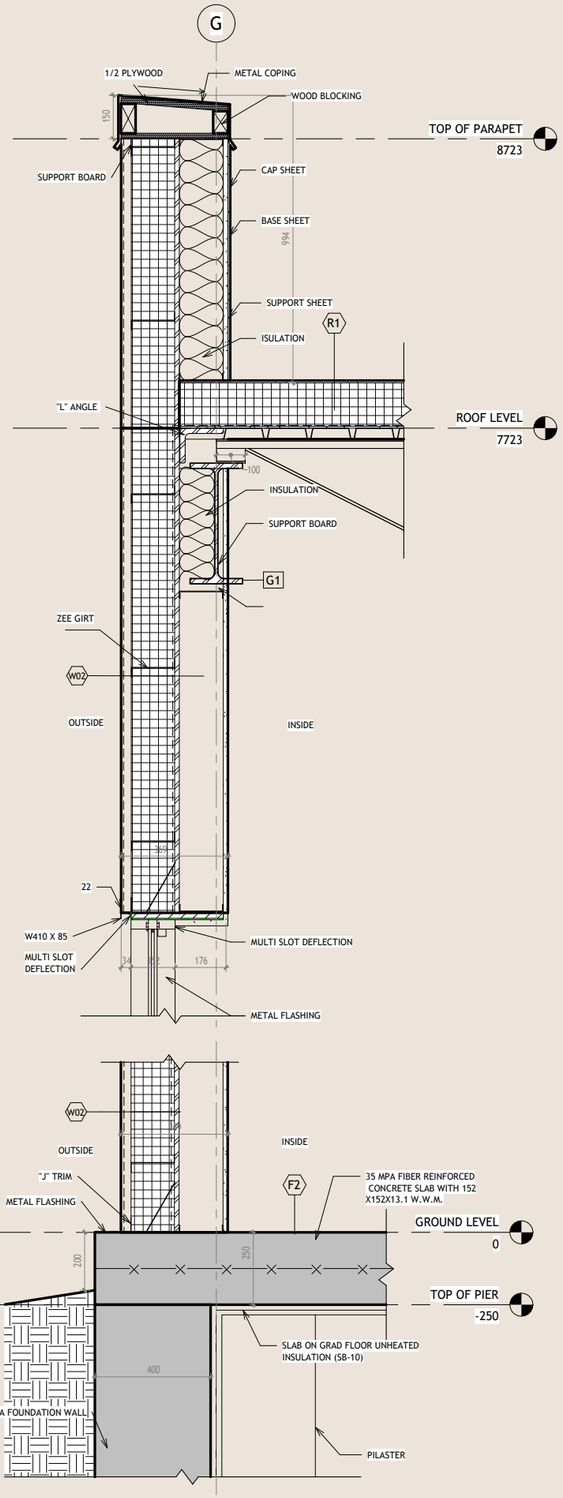
First Floor Plan



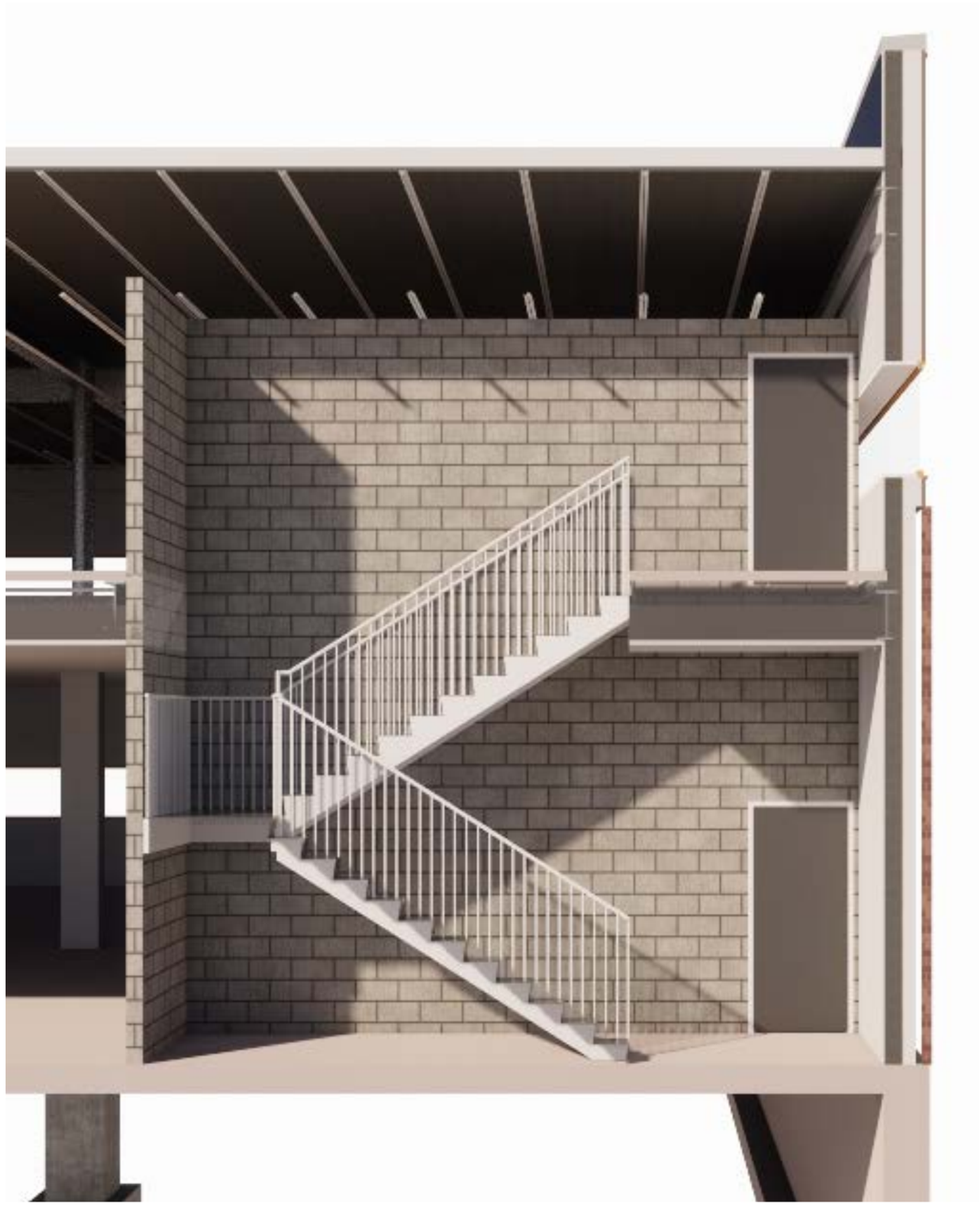
Second Floor Plan

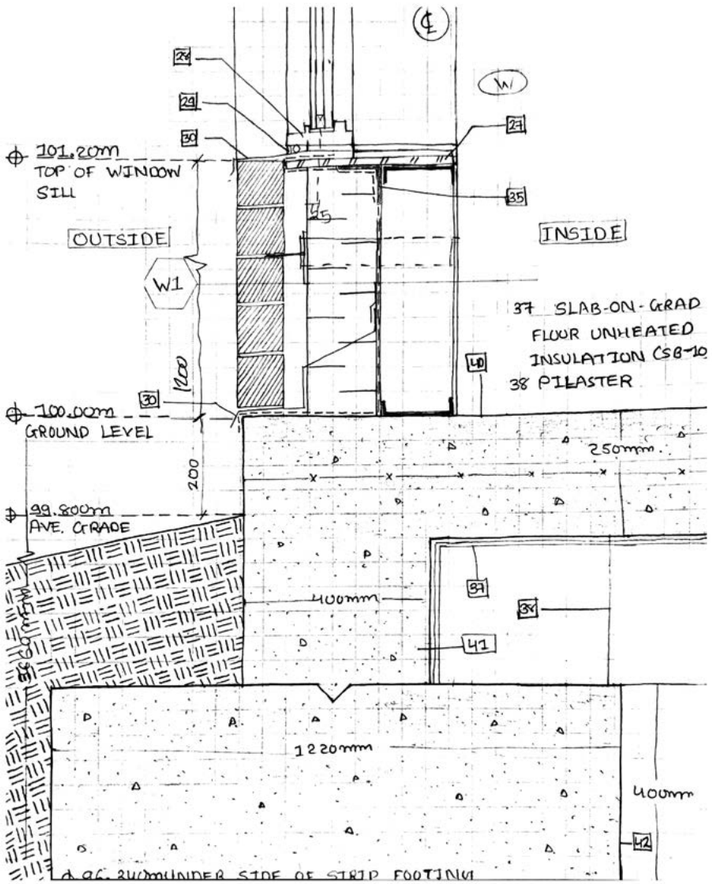


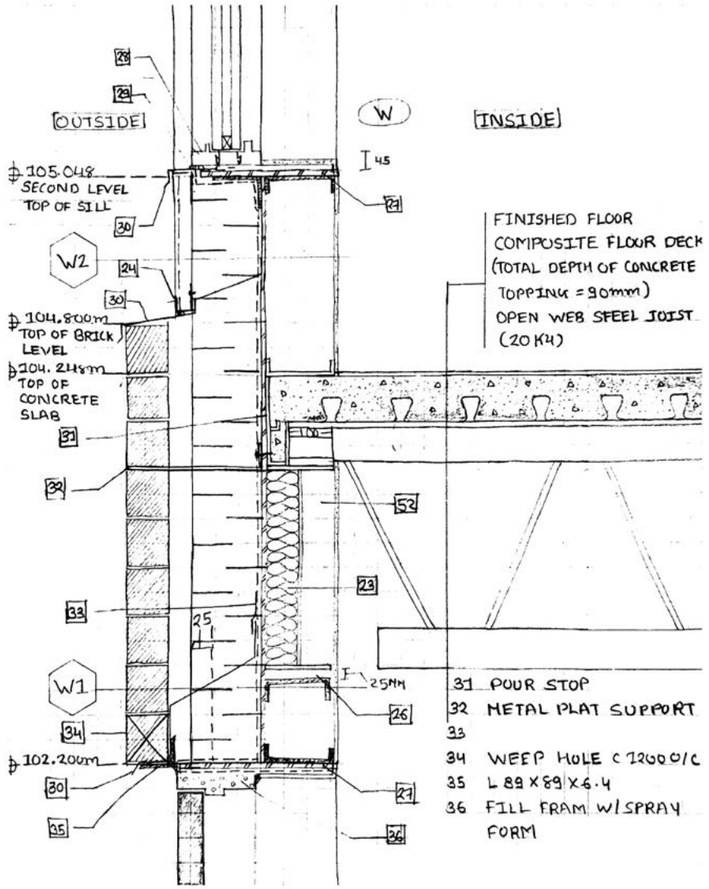
Stairs Section

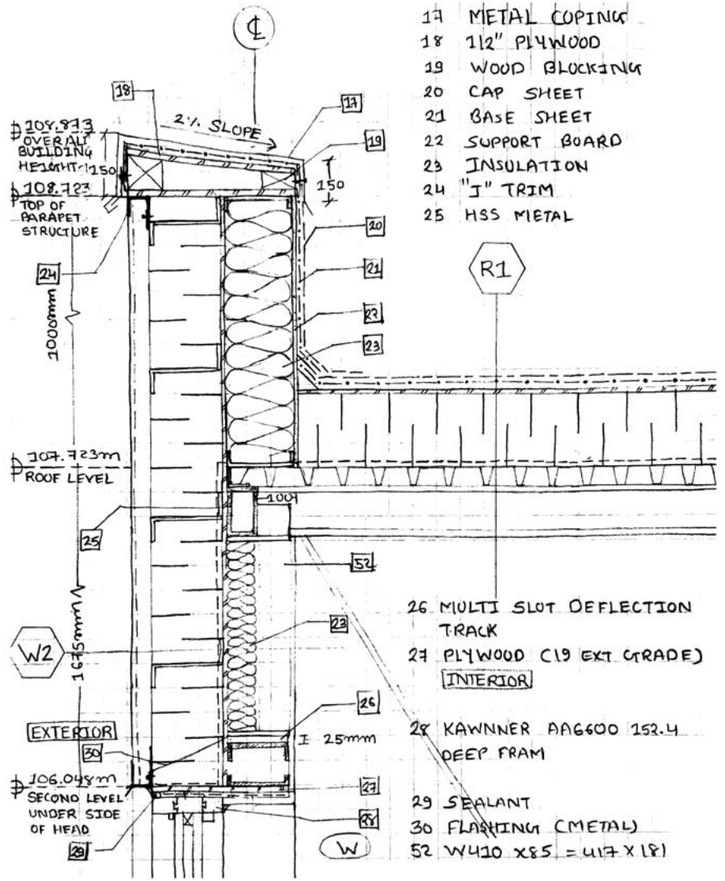


Wall Section









Hand Sketches

03

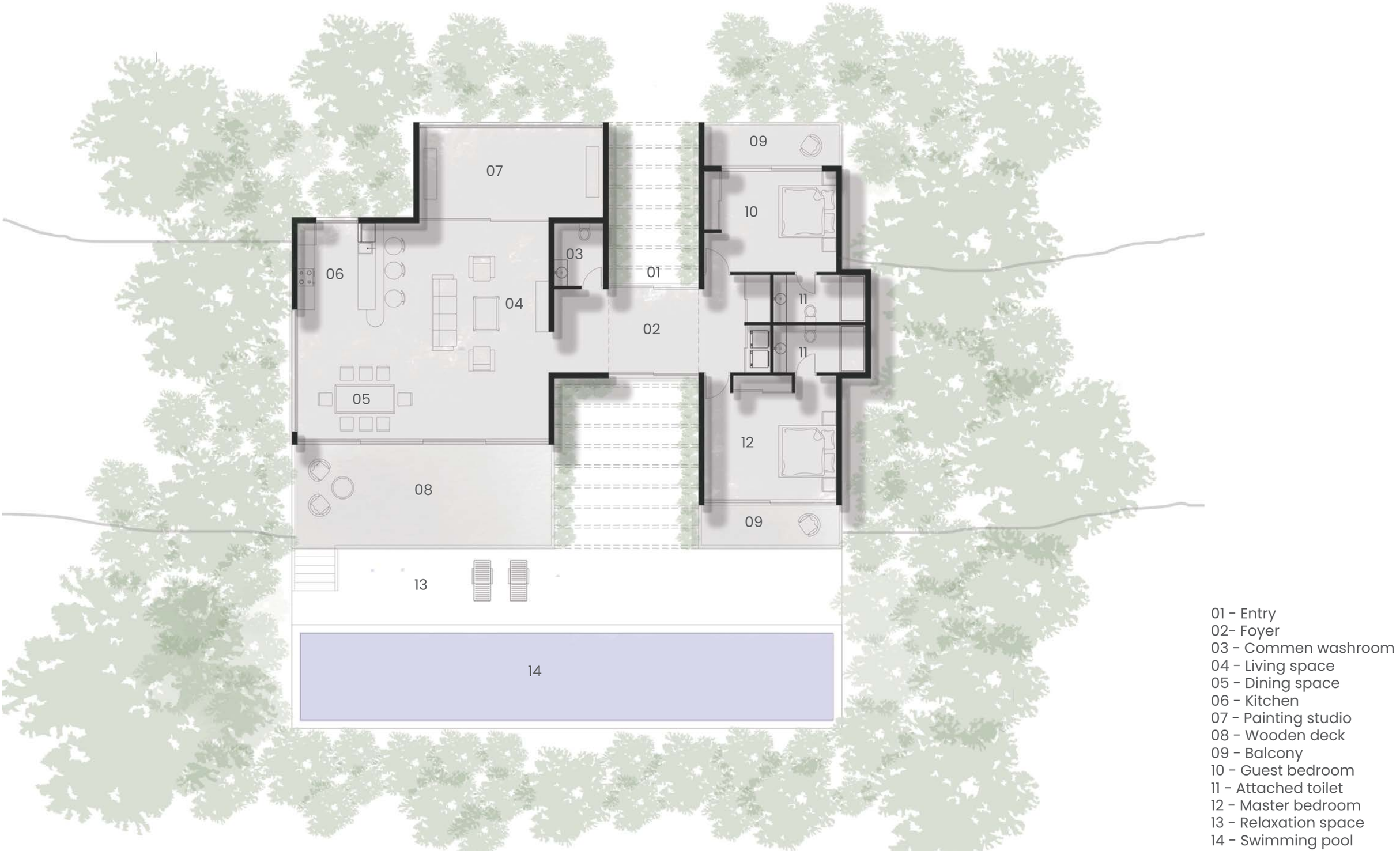
Lake Muskoka Retreat House

Academic Project
Architecture Design project
10 minutes outside of Port Carling, Ontario on Lake Muskoka Site
2024

Softwares used:
Sketchup
AutoCAD
Twinmotion
Adobe Photoshop



Retreat House was a project nearby Muskoka lake. The site was on a slopping gorund with existing vegetation. was given a task to create a retreat house which would simpify the current usage and which would create a space where the client want to spend their time. Having constraints such as slopped roof, not having excavation, and consider the current positioning of the trees, the project it self was challenging and required lot of thinking. Had looked the barn design from various sources, I decided to go with a simple structure which integrates with the slopping gorund and which talks with the environment with the choice of materials.



01 - Entry
02- Foyer
03 - Commen washroom
04 - Living space
05 - Dining space
06 - Kitchen
07 - Painting studio
08 - Wooden deck
09 - Balcony
10 - Guest bedroom
11 - Attached toilet
12 - Master bedroom
13 - Relaxation space
14 - Swimming pool













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