



TAYLOR'S UNIVERSITY

Wisdom • Integrity • Excellence

ARCHITECTURE INTERNSHIP REPORT

INTERNSHIP TRAINING AND REPORT

ARC 2615 / ARC 2613 / ARC 2622

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1.0 Introduction to company profile



Company: Ark Atelier

Website: <http://arkatelier.com/index.html>

Ark Atelier is an architecture firm that is built upon principles of commitment, integrity and the willingness to learn. They preach that we live architecture instead of only performing it as a profession since architecture is a tool to shape the way of life. Their goal is to expand and enhance knowledge in the architectural field through extensive research to achieve excellence in design.

The company consists of a team of 2 architects and a junior architect. Architect Ashween Ramhotar is the managing director and also has been my mentor throughout the 9 weeks of internship training. Being a rather small team, I seized the opportunity to engage in discussions on many subject matter relating to architecture and I was given feedback from experienced professionals.

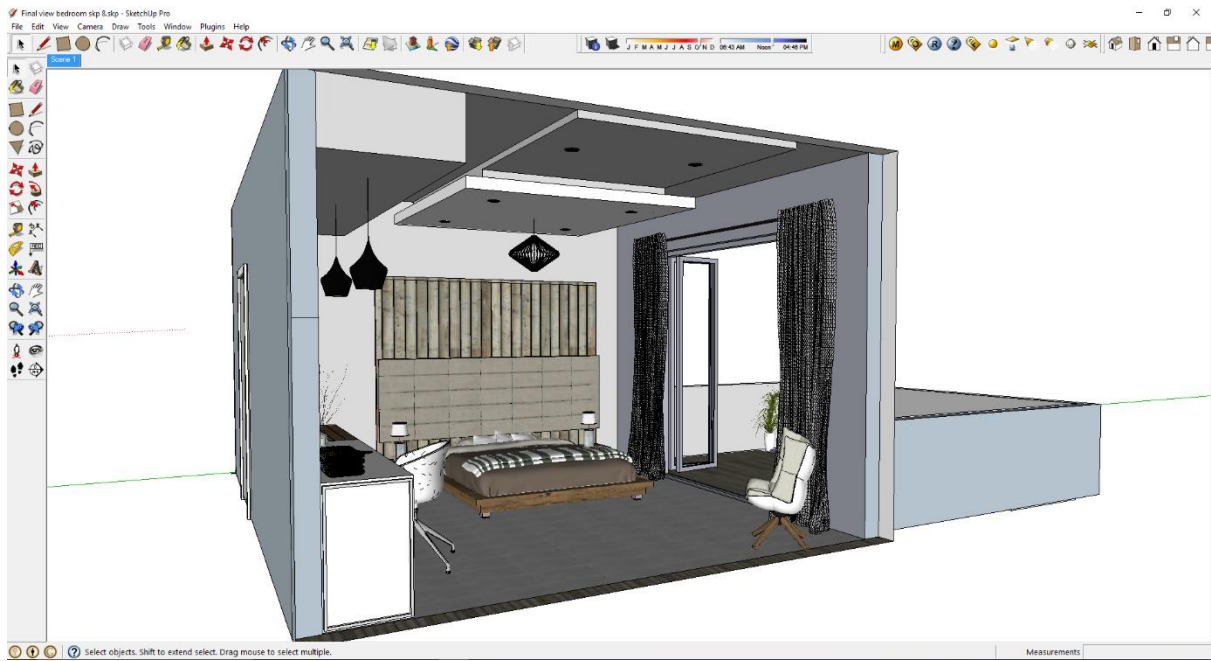
2.0 PROJECTS

2.1 ANSE LA RAIE – RESIDENTIAL APARTMENT PROJECT

Anse La Raie is a residential Apartment project located on the northern coastal region of Mauritius which aims to attract both locals and tourists. Its concept has been largely influenced by the tourists' attraction and the beaches steps away from the site location. It makes an ideal spot for a getaway weekend or a holiday for tourists.

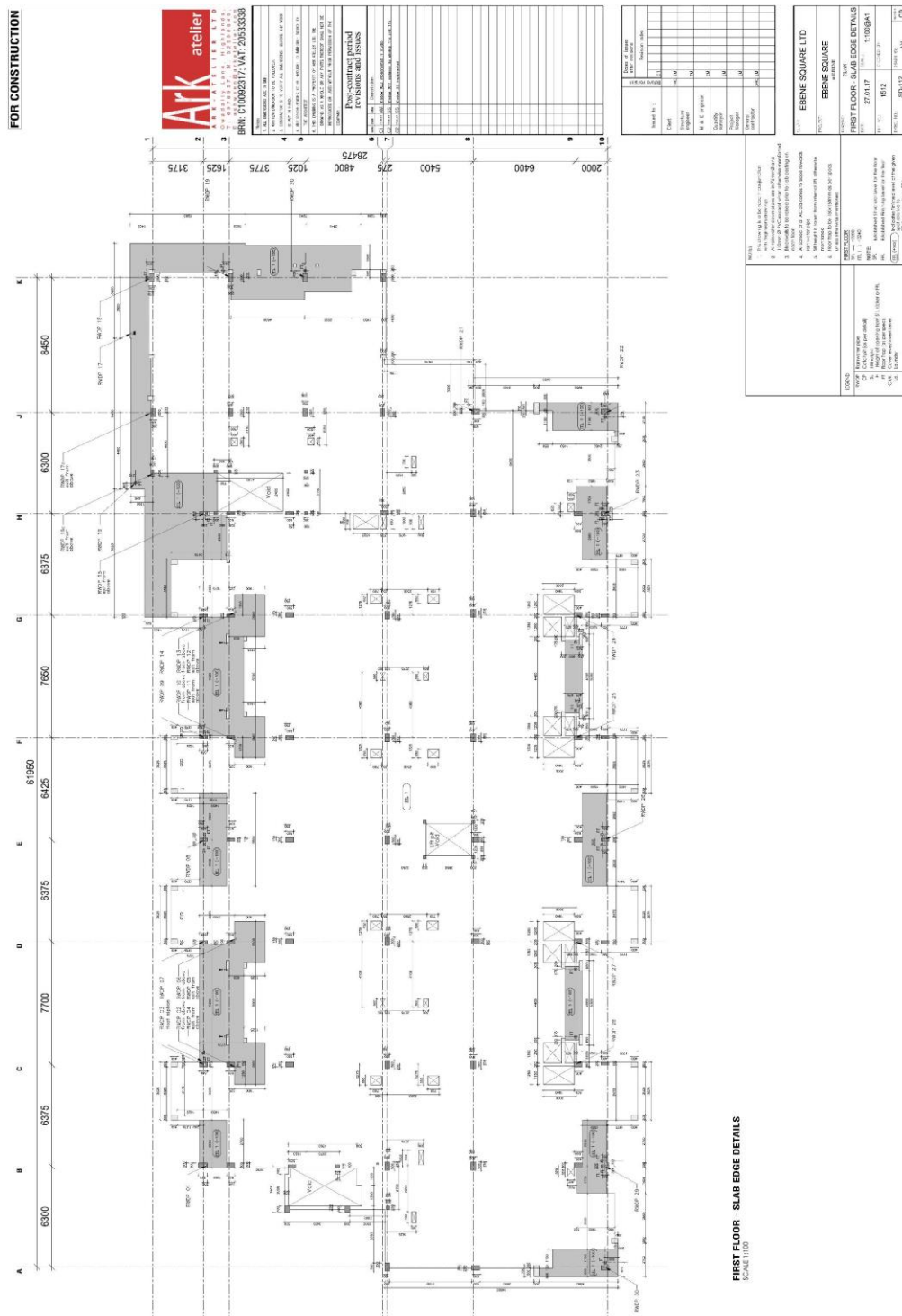
Since the project was already at the permit stage and the client requested additional 3D visuals to promote his project, I was tasked to design the interior 3D visual of a bedroom and one of the exterior facades. These were artistic impressions made and they create the mood to attract potential buyers or visitors. The importance of 3D visuals is not only for the architect but also to the client since they are less experienced in this field and they cannot always see the design in 3D. Upon seeing the design in 3D they understand better the progress of the project.



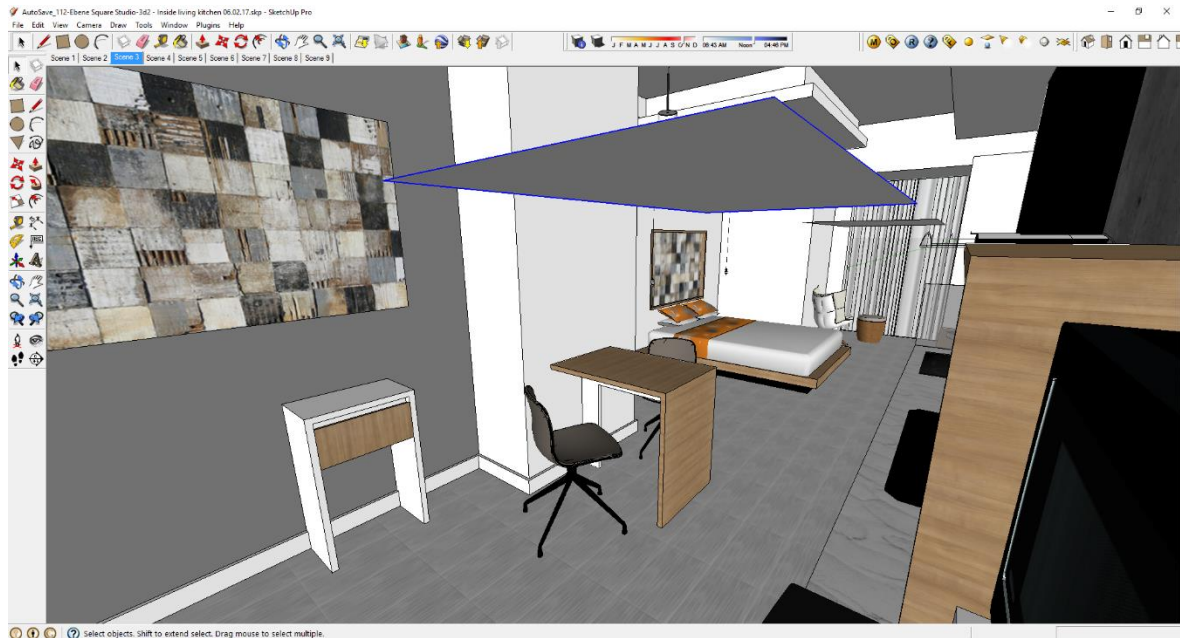


2.2 EBENE SQUARE – RESIDENTIAL + COMMERCIAL BUILDING

Ebene square is a contemporary residential apartment project which was at the construction stage when I joined office. Through this project, I had the opportunity to handle technical and construction drawing as well as designing the interior of a single bedroom apartment. Some of the technical drawings include slab-edge details and toilet details. These allowed me to better understand construction details and why the need to provide such drawings to contractors.



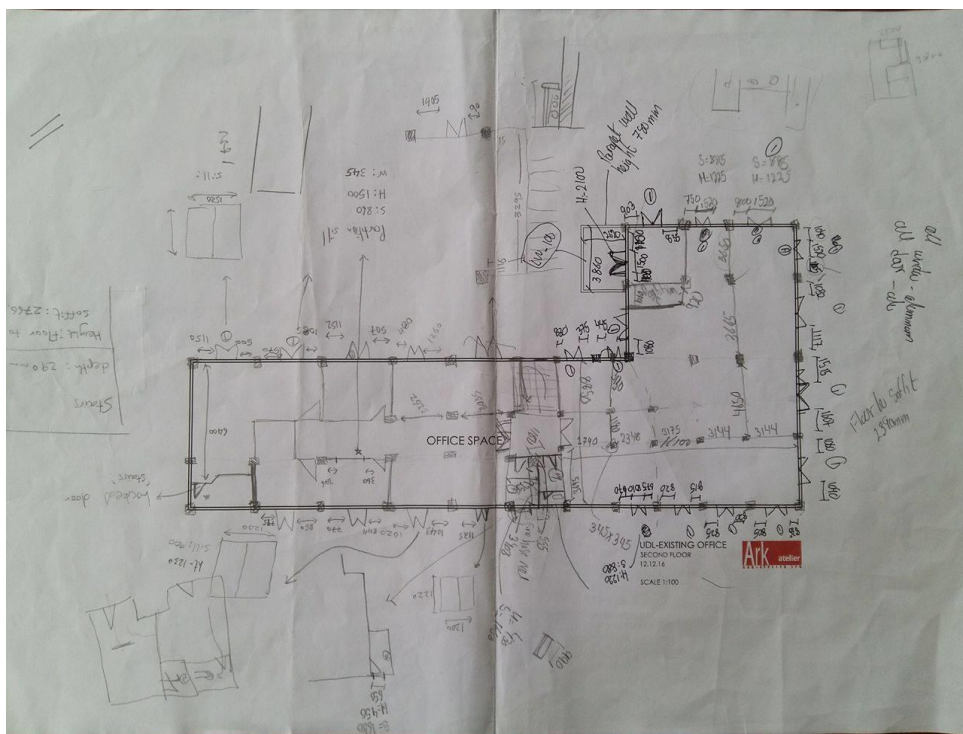
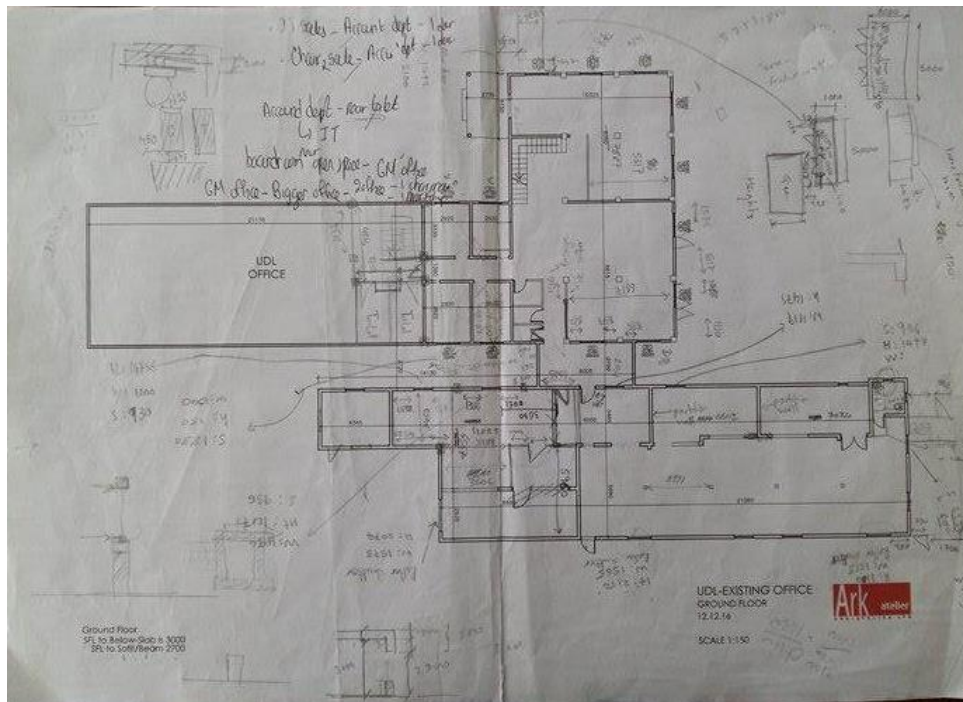
In terms of 3D visuals, I was tasked to design the interior of a 1-bedroom unit on sketchup. The floor plans, being done already, I took the opportunity to apply my design knowledge on the interior design which forms part of the overall architecture of that space.



2.3 UDL – FIT OUT WORKS

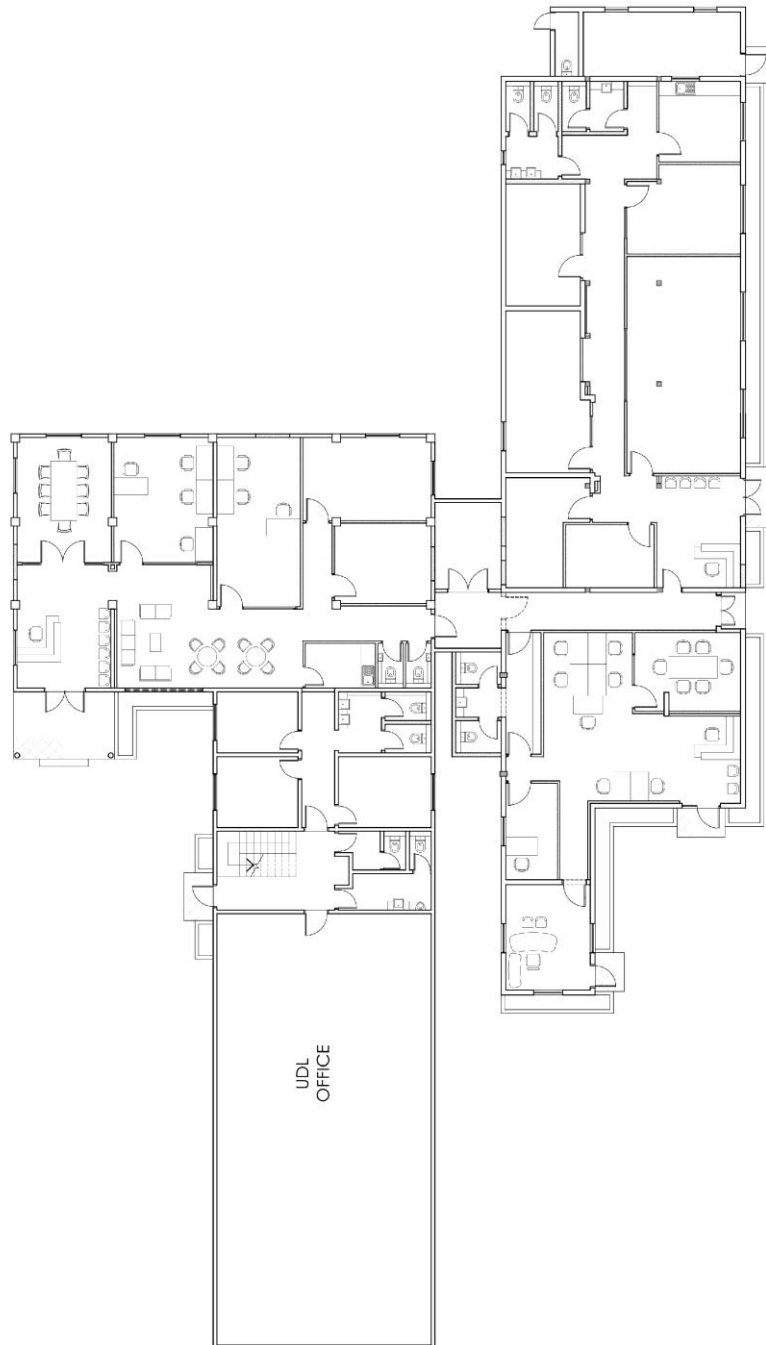
The United Docks Limited (UDL) project consists of a renovation work being carried out on an office building in Port Louis. The building is three storeys tall and each floor was previously occupied by one company respectively.

At the beginning of my internship, I was asked together with a junior architect to carry out a site visit and do a survey of the building.



By means of architectural planning, I coordinated the spaces required by individual offices through an office representative, and proposed a more organised layout to save on circulation area. Through extensive coordination with the client, we managed to draft a layout we both agreed to. While doing so, we have achieved more rental space which is beneficial for the client.

Since the project has to be handed over at the beginning of April 2017, we focused on the interior layout first so that the office staff can move in and work.

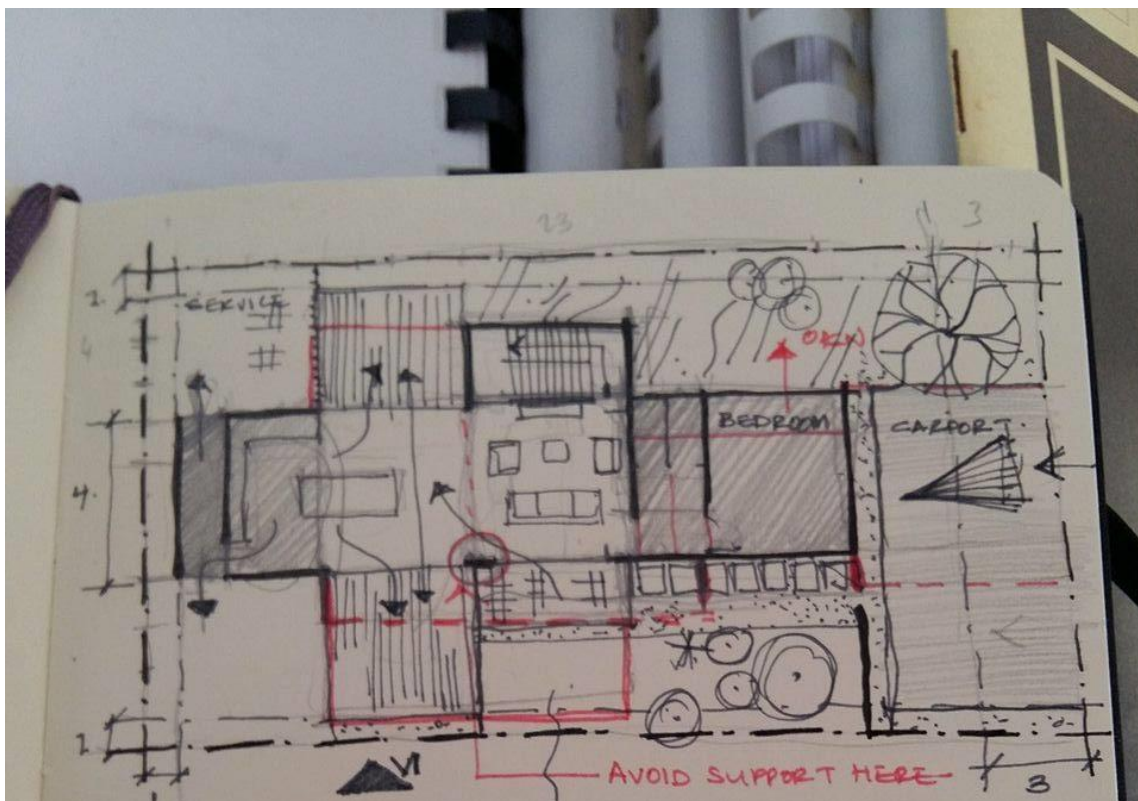


2.4 PASCAL LOUISE – HOUSE PROJECT

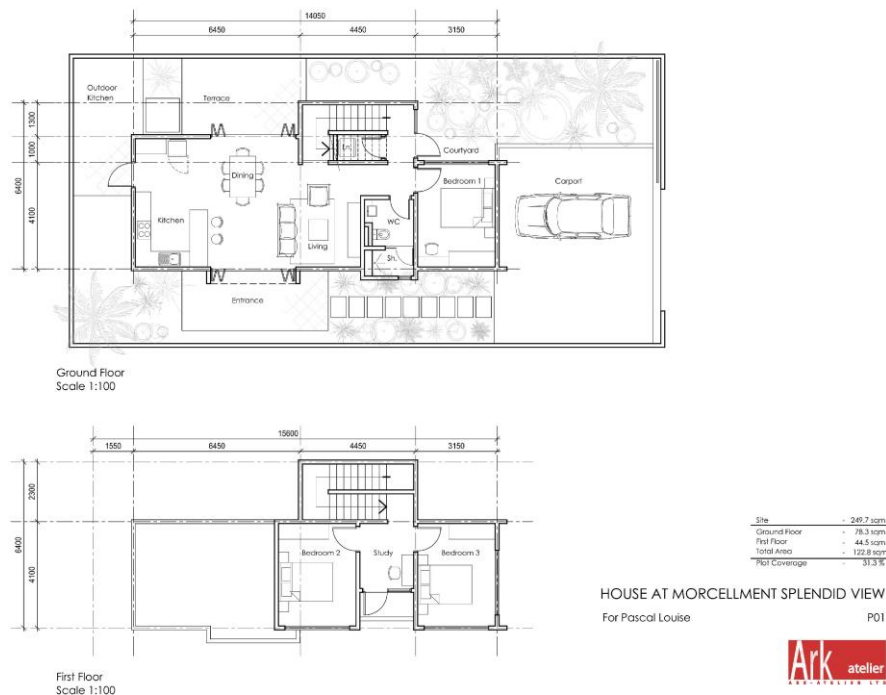
Pascal Louise house project is a project where the client wants to build a two storey house of contemporary architecture. The requirements were 3 bedrooms, living, dining, kitchen and a common study place. The challenging part of this project is that the client's budget is limited to Rs 1.5million and in order to achieve a good architectural finish, we tried to limit the area of the house to 120m².

At first, we worked on the concept of the house which is outdoor living and convertible spaces for parties, events and gatherings. It included large openings and sliding folding doors on an axial alignment in order to give the impression that the space is not dense. Volumetrically, the larger portion of the house is designed to be at the front entrance. While this creates an appealing massing from the street view, it also provides a more private space at the back and sides of the house.

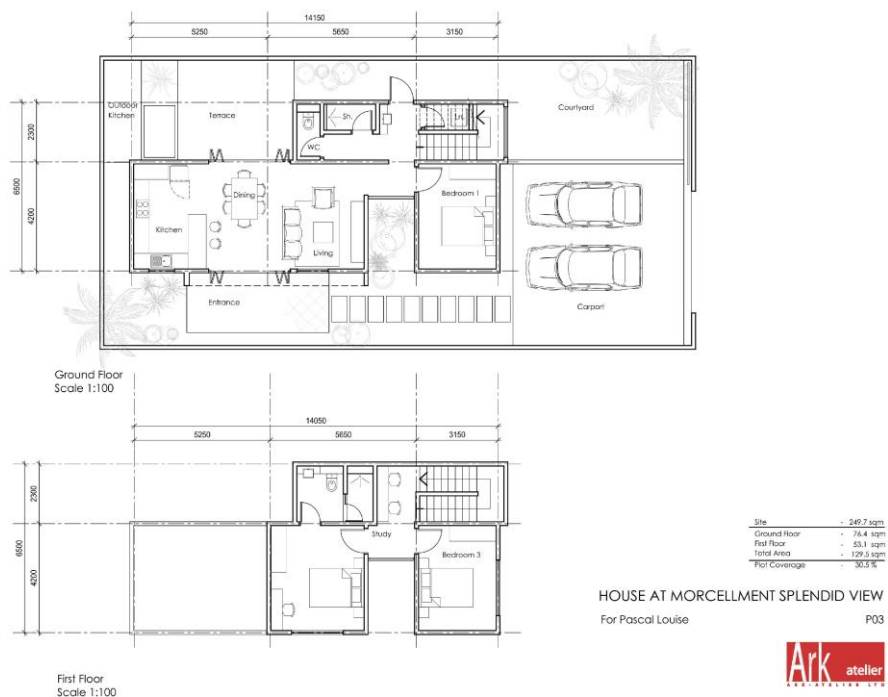
For the first client – Architect meeting, we established the requirements and spaces required for the house. Then we discussed about the costing involvements related to the construction industry and innovative housing concepts.



For the second meeting – I proposed a first layout of spaces according to their needs and presented that in the form of a plan. We discussed about why each space was precisely located and their relations and implications in the daily life.



For the third meeting – I proposed a revised layout of spaces which the clients liked better and only insignificant changes were to be made.

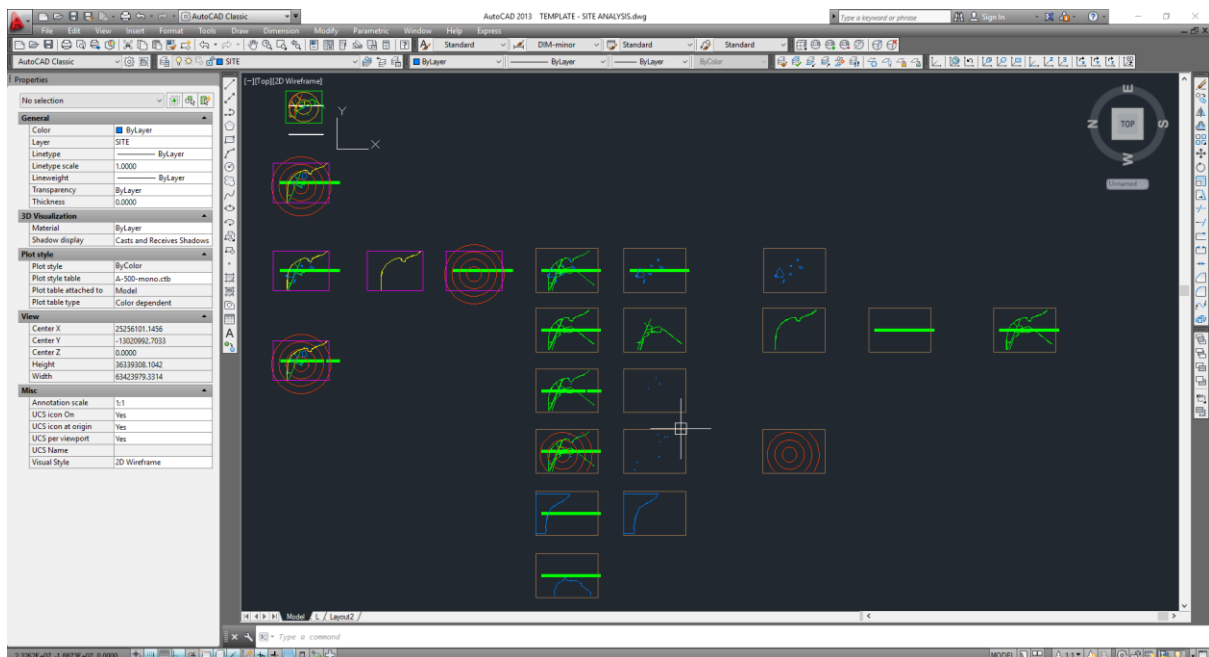


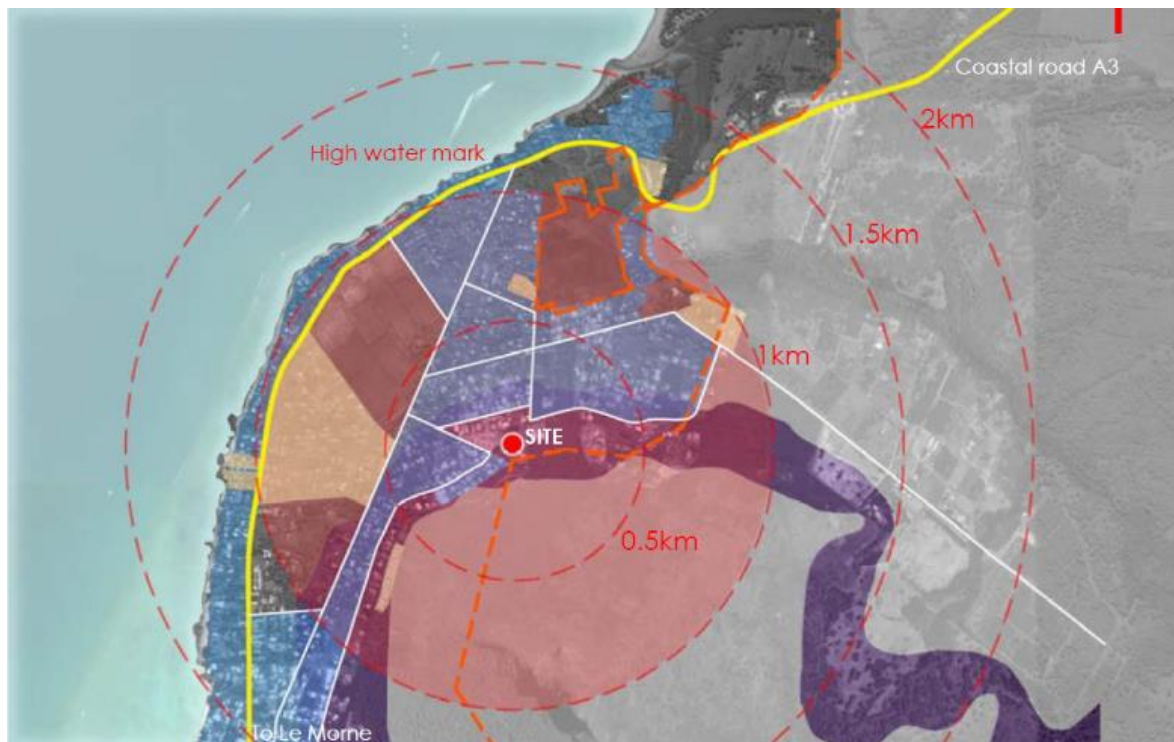
2.5 CARLOS BAY – PROPERTY DEVELOPMENT SCHEME – CONTEMPORARY VILLAS (11UNITS)

Regarding the Carlos Bay project, I was tasked to carry out some project feasibility analysis. While doing so, I took the opportunity to use my university experience to showcase my analytical abilities and produced analysis of:

- Road network and connections
- Walking distance to amenities
- Shops and supermarkets
- Leisure activities
- Public beaches around
- Restaurants and local food outlets
- Other villas and surrounding hotels
- Precedent studies and the facilities they provide
- Setbacks and height limitations
- Temples, church and worship places

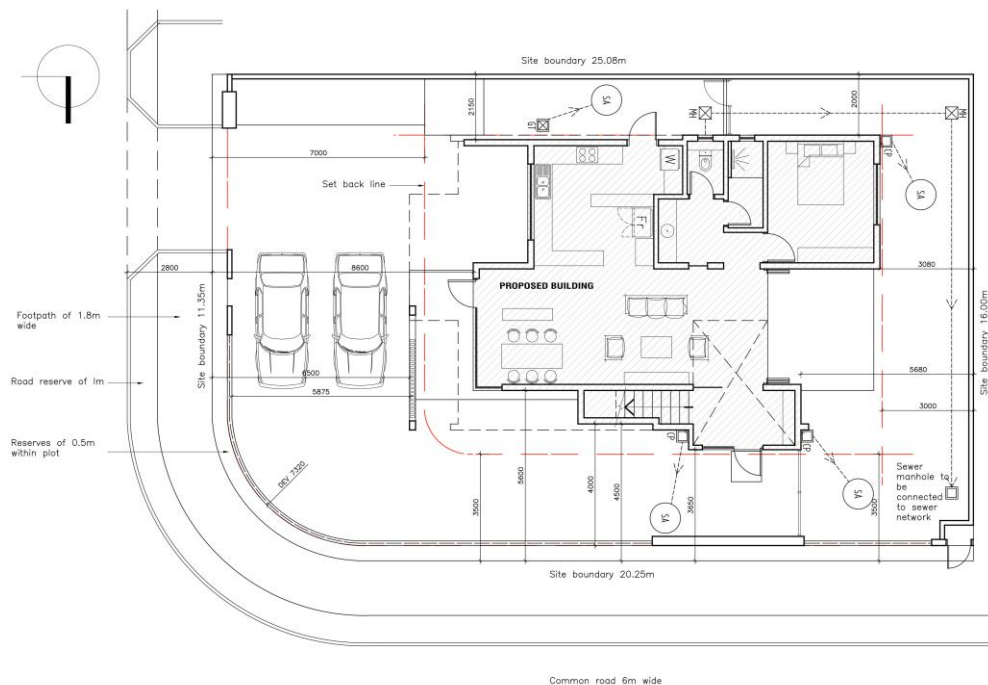
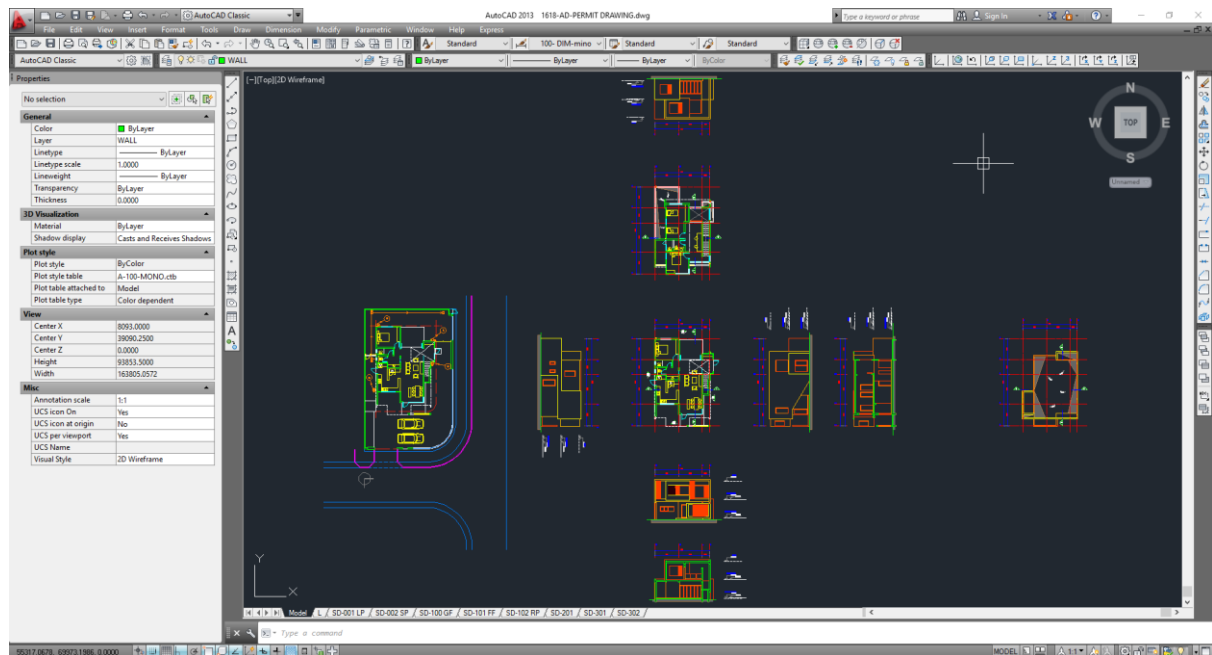
While analysing these, we concluded that the project is actually feasible since it is located in a coastal area and the amenities are readily available for the everyday life use of the future residents. We then started to prepare for the presentation of the analysis. One of the interesting things I learnt was to use AutoCAD and make templates for analysis. This process is much faster than on Photoshop and in the real industry, in order to keep up with the pace, it is vital to look for shortcuts.





2.6 PERMIT DRAWINGS – DOWLUT – HOUSE PROJECT

For this project I was responsible to draw all the permit drawings and prepare the documents required to send for permit application. These drawings include floor plans, elevations and sections. I learnt that the important details for permit application are setbacks, building height, manhole position, access/exit locations. These are important to consider in order not to impact negatively on the existing building around the site.



SITE PLAN
Scale 1:100

Areas	
Ground Floor	- 101.6 sqm
First Floor	- 88.6 sqm
Gross Area	- 190.2 sqm
Area of land	- 394.95 sqm
Plot coverage	- 25.7 %

FOR PERMIT

Ark atelier
ARCHITECTS LTD

1. The information on this plan is based on the information provided by the client and is not to be used for any other purpose without the written consent of the architect.

2. The architect is not responsible for the accuracy of the information provided by the client.

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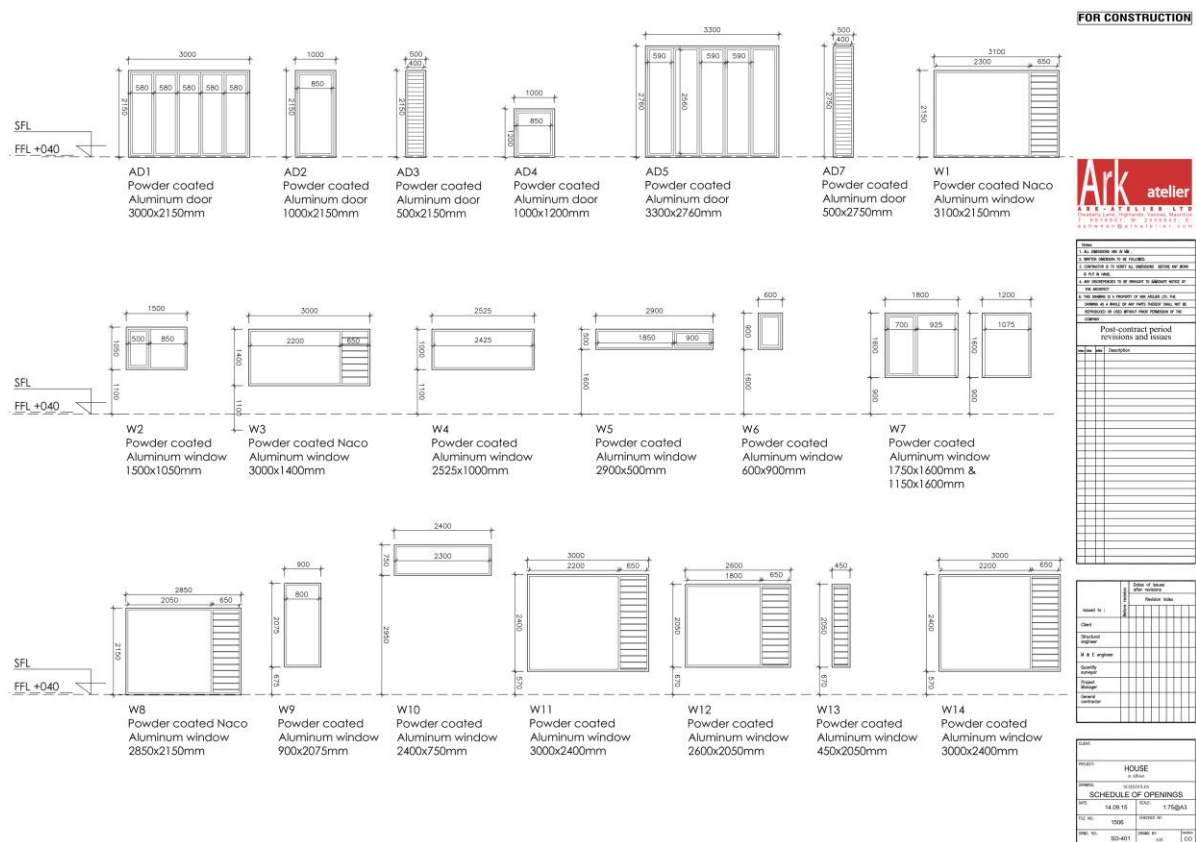
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2.7 CONSTRUCTION DRAWINGS – HANSINEE – HOUSE PROJECT

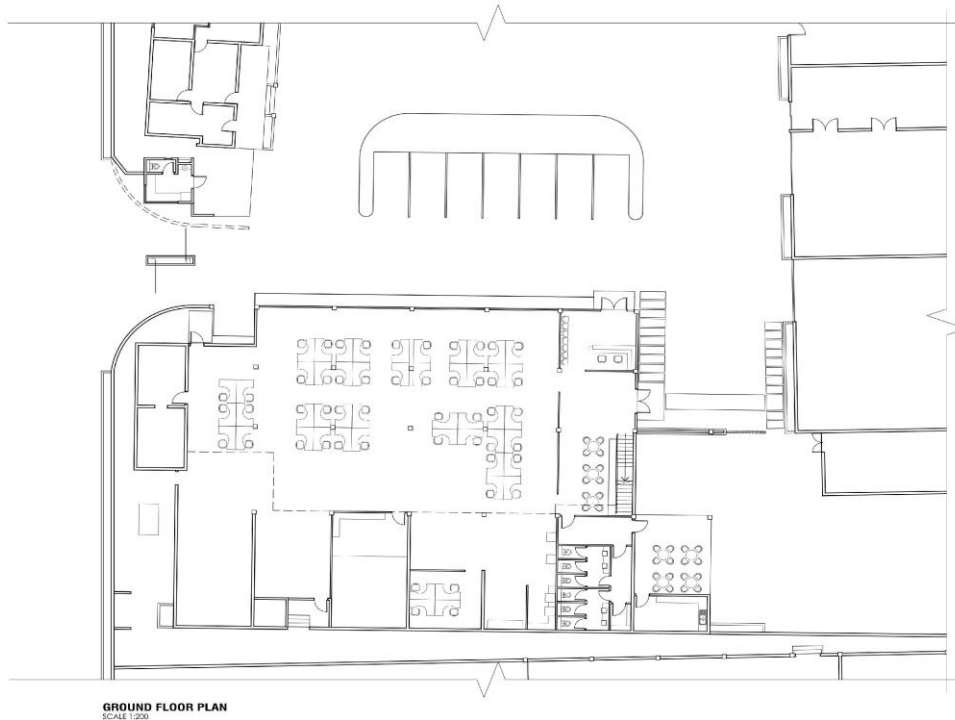
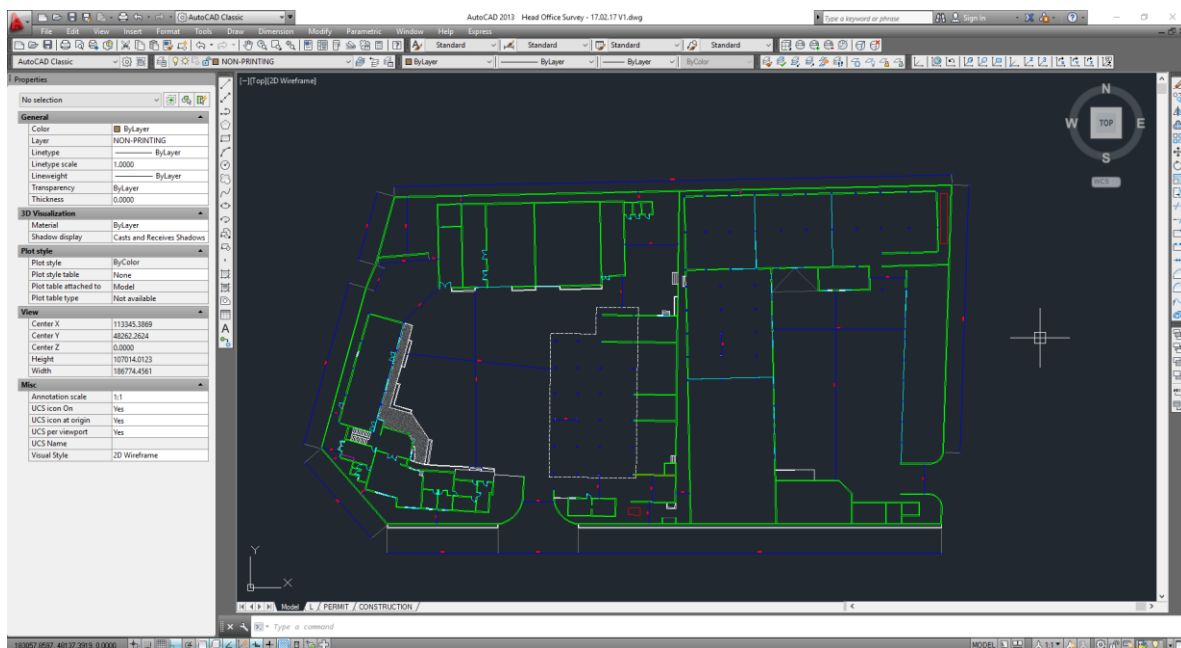
For this project I was assigned to give all details of the house on specific drawings. From giving dimensions on all floor plans to detail drawing of the WC and shower piping, I learnt the importance of details and how a contractor uses these details to follow up his construction. Schedule of aluminium door, windows, timber doors, tropical door amongst others helped me increase my knowledge as well.

Moreover, these drawings are a sort of contractual agreement how the house should be.



2.8 BILLY WONG – RENOVATION AND UPGRADING WORKS

The Billy Wong Project is an existing warehouse site where the client intends to build an additional office for 50 staffs. Having discussed with the client together with the architects at the firm, we proposed the concept of an open office layout with a double volume ceiling height. After agreeing on an area schedule, I drafted the design and layout of the office according to some standard dimensions provided by the client. (Standard dimensions such as table, position of existing columns). While doing so, I noticed that a lot of area would go unused and went further to proposed an area for further extension. Unfortunately, though, I will not be able to follow up with the project since the client is not available for meeting until the end of my internship.



2.9 CHALETS – CHAMAREL

This is a project consisting of 11 chalet units in the midst of a forest mountain. It was at the construction stage when I joined office and 5 of these had already been completed. I could only participate in site meetings for this project where I first encountered 'minutes'. I was tasked to write down all the minutes material for one of the meeting. Below is the minute sheet I have done.



15A Tailpots Avenue Quatre-Bornes, Off: 6976957, Mob: 52506640, E: aramhotar@gmail.com

March 02, 2017

CHALETS CHAMAREL Minutes of meeting no 9 held at Chamarel on 16.02.17 at 15h00

Attendees	Contact no		
Swaleh Ramjan	57253999	Societe Lavilleon	SL
Frederic D'hotman (absent)	Sr7199@intnet.mu	Societe Lavilleon	SL
Vinobah Dhondee	58504279	Prodesign Ltd	PD
Iqbal Limbada (Absent)	graphic@intnet.mu	Limbada & Limbada	LL
M Onsiang	4653609	Onsiang Associates Ltd	
Selven Warden	vinobah.dhondee@prodesign.mu	Kuros Construction Solutions	K
Sylvain Clarisse	52556945	Kuros Construction Solutions	K
Philippe Goorapa	limbada@intnet.mu	Kuros Construction Solutions	K
Siven Veerapa	52518098	Kuros Construction Solutions	K
Avish Mungur	onsiang.m@intnet.mu	Ark Atelier Ltd	AR
Ashween Ramhotar	57281409	Ark Atelier Ltd	AR
	selvenw@kurosconstruction.com		
	57288655		
	sclarisse@kurosconstruction.com		
	siven@kurosconstruction.com		
	avish@arkatelier.com		
	52506640		
	ashween@arkatelier.com		

	Site started - 05.02.16	NOTE
	Practical completion - 30.04.17	NOTE
	It was agreed in meeting that all units and Dining room to be handed over in April 2017.	
	Mock Unit	
	Practical completion - 31.10.16	

1.0 – SITE ESTABLISHMENT		
1.01		
2.0 – CONTRACTOR'S MATTERS		
2.01	Contractor to complete Aluminum for unit 1-5 by next site meeting for comments.	K
	New sample of Aluminum louvres approved.	
2.02	An alternative 40mm RC topping with mesh completed for units 1-11 done – sealant pending.	K
2.03	Contractor to follow up with NSR for metal structure – structure up to unit 7 done.	K
2.04	Contractor to proceed with excavation of septic tanks and report survey levels around buildings to consultants – Unit 9 being excavated.	K
2.05	Timber works – Units 1,2,4 and 5 done. Unit 3 in progress.	K
2.06	Progress of timber doors, and skirting to be reported as well.	
2.07	Contractor to start site works in parallel – ongoing – Rain delaying work.	K/AR
2.08	Planters not to be done for units 9 and 10 – Noted.	K
2.09	It was decided that timber screen to be done on RC wall at shower planter – Kuros to provide metal structure – Ongoing.	K
2.10	Lighting fixtures awaited for installation.	
2.11	Screen @ shower of unit no 8 to be higher to prevent overlooking from Dining.	
2.12	New access identified for dining – Drawings to be circulated by architect.	
2.13	Sample to access paths to be done for approval – Access path and steps to be in RC. Contractor to do sample for approval.	
2.14	Contractor to ensure that wall tiles are done prior to fixation of gypsum board to false ceilings – completed up to unit 8. Awaiting tiles to proceed.	
2.15	Decking installation in progress – Units 1-6 completed. Units 7-8 in progress.	
2.16	Contractor to have 2 separate POW; one for site works and one for building works – Quotation for site works awaited.	
2.17	Metal fixation to support suspended side bed lights to be done.	
	Retaining wall to slope to be done near Unit 11.	

2.18	Contractor to chase Wenseng for supply of sanitary wares.	
2.19	Contractor to follow up for shower doors with Wenseng.	
2.20	Sample of stone pattern on floor approved.	
2.21	Sample of stove, microwave, fridge, sink put in place and approved. Contractor to place same.	

3.0 – STRUCTURAL ENGINEER'S MATTERS

3.01	Septic tank for units 1 -5 completed. Units 6 and 7 excavated.	
3.02	Engineer to give detail for retaining wall at unit 11.	

4.0 – M&E ENGINEER'S MATTERS

4.01	It was decided that external lights will be Timber posts with one light fixture placed on same – Mahadeo to do sample of lamp – ongoing.	PD/SL/AR
4.02	Shop drawings for swimming pool was requested by Engineer – submitted. Eng to comment – commented.	
4.03	External lights to be done to vehicular Access road – ongoing	
4.04	Position of generator and water tanks and pumps decided on site – decided. To be implemented	

5.0 – QUANTITY SURVEYOR'S MATTERS

5.01		
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7.0 – ARCHITECT'S MATTERS

7.01	It was instructed that contractor to apply grey colour chosen for internal walls outside as well - awaiting	AR
7.02	Kiosk design to be done	

8.0 – CLIENT'S MATTERS

8.01		AR/SL
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9.0 –CAMPEMENT DE CHASSE

9.04	Lights over mirror and mirrors to be placed.	
9.06	Timber screen to be amended as per site discussion	
9.07	New Aluminum to be done	
9.08	1 light to be provided in planter – to be amended as per comments	
9.09	Shelf and timber to be provided below wash hand basins	
9.11	Gutter with flashing to be provided at end of sheeting as seen on site – both sides of building	
9.12	Timber at counter on terrace to be raised.	

9.0 - MEETINGS

9.01	Next site meeting – 02.03.17 at 15h00	
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"Minutes are meant to be a summary of what was discussed during the site meeting. It is not meant to be the sole call to action, and each party are responsible to take his own notes."

Yours faithfully,
Ark Atelier Ltd

Ashween Ramhotar
Distribution to all by e-mails

3.0 CONCLUSION

Through this short internship of 9 weeks, I believe to have increased my knowledge in the professional architectural field. I have been exposed to small-to-medium sized projects where I not only enhanced my software skills, but got the opportunity to use creative and critical thinking to solve problems. However, I also faced some issues since it is a new world to me. Sometimes I badly managed my time for projects, hence I intend to work and improve on this deficient area.

Overall it was a very fruitful experience.