

Deliverable G: Prototype II and Customer Feedback

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GNG1103-A00 Group 7

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Wrike Snapshot:

<https://www.wrike.com/frontend/ganttchart/index.html?snapshotId=ibkFXEAuAbINZw3U37VXwUQqq1NGbD8G%7CIE2DSNZVHA2DELSTGIYA>

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1. Feedback received

Similarly to the past deliverable, although the client hasn't commented on our design specifically, we have been able to infer some of their opinions from their remarks on other designers' work. We observed that they preferred many of the bigger, more curved, naturally shaped buildings over our current layout. The client also appeared to enjoy the fact that there was a larger-than-planned overlook and more greenery throughout the building than just the rooftop garden that was initially planned. We discovered that the client appeared to primarily desire a larger, rounder, and more open version of our building concept. As a result, we have attempted to forecast the kind of feedback we would have probably received by using our analysis of the features of other groups.

2. Prototype II and Analysis

In accordance with our thoughts and ideas from Deliverable F, we have decided to completely reconsider our previous design. We decided to maintain some key features from our last, including the rooftop garden and office design, but really decided to shift our focus towards increasing and improving spaces. Improving on our previous design, our new design is almost twice the size of our previous one, to make it a more relevant competitor with the other groups' designs. We've incorporated 10 offices instead of 6, we've made a larger, more hygienic lab space and put in more storage rooms. The overlook now views the large cylindrical windowed room that will house multiple hanging plants, which will receive sunlight from the 20 windows that line the total height of the entrance room. The open space the entrance leads to will be for community gatherings and the people attending can be served food from the spacious kitchen. To make the second floor easily accessible, we've added two elevators beside the stairwell. The laboratory has easy access to the refrigerated storage room and the general storage room, and features a loading bay, as does the general storage room. With a rooftop garden on the second floor, all sorts of plants can be grown, from medicines that will be processed, to vegetables to be prepared for guests.

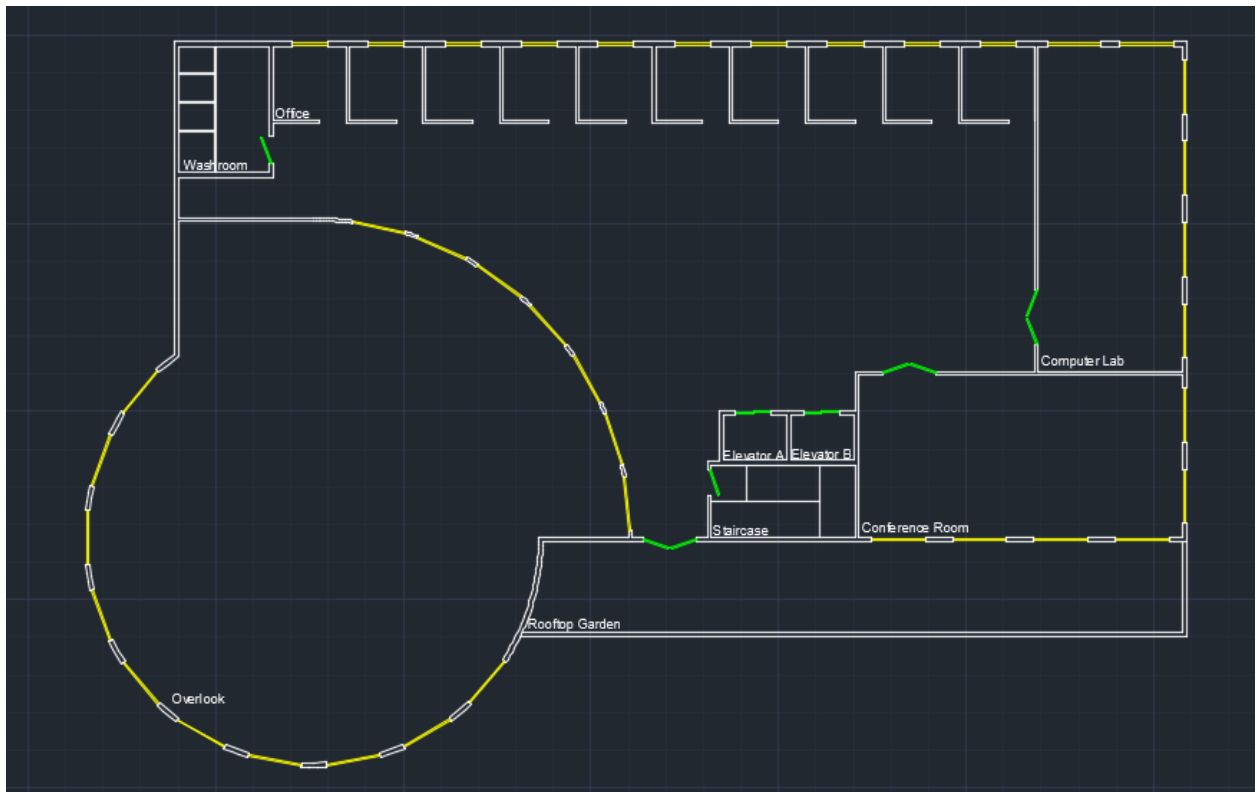
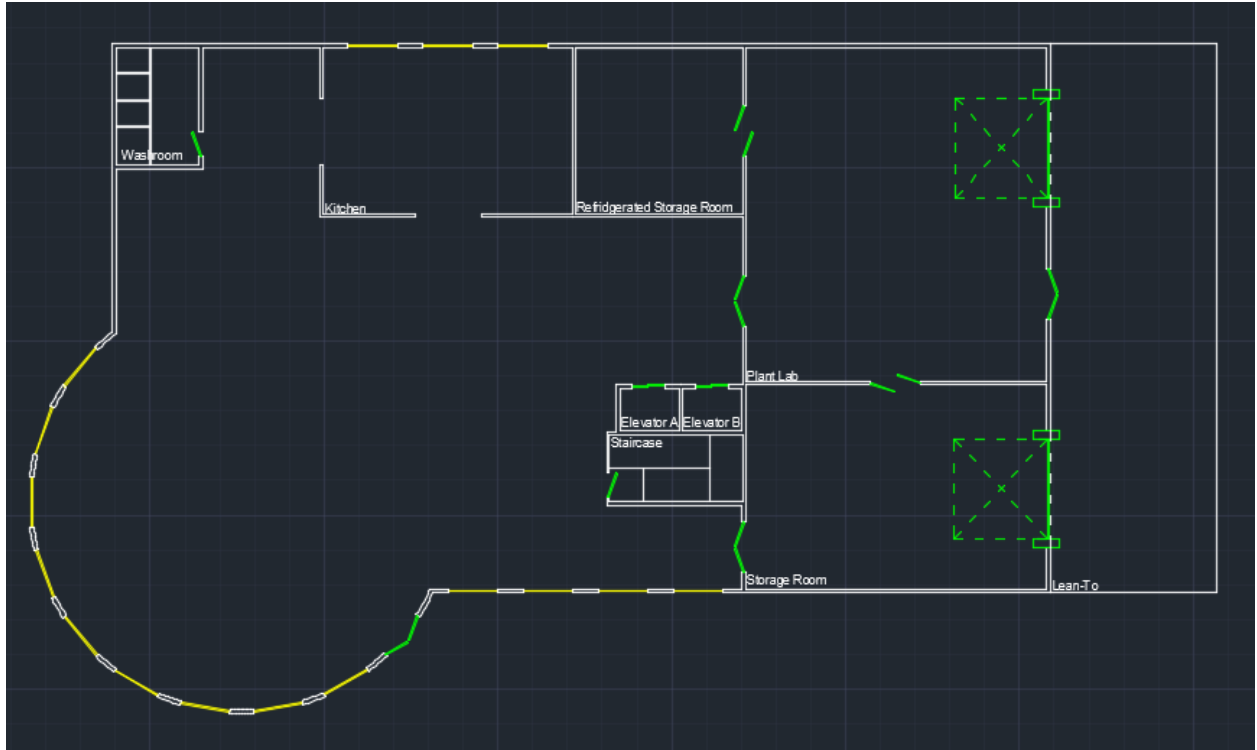


Figure 1: AutoCAD blueprint design of the building (second prototype)

3. Results

Our group believes that the results we have obtained represent the client's extrapolated preferences, as we have not received much feedback or results. This was discussed in 1.0. Our new prototyping contains some similarities to the old test plan, but these changes are self-imposed due to the client's lack of actual feedback. However, considering we have now reconsidered our prototype, we can now begin to create other forms of displaying methods and aids to help imagine our design. This would certainly be helpful when considering the nearing of both our in class presentations and design day. We can also begin to search for additional feedback regarding our new design, now that we have a more concrete plan.

4. Prototyping test plan

Test ID	Test objective	Description of prototype used and basic test method	Description of results to be recorded and how the results will be used	Estimated test duration and planned start date	Stopping criteria
1	Receiving feedback on the 3D office cubicle model	<p>The walls and floor of the model will be made of 3mm MDF board, and the furniture will be 3D printed.</p> <p>We will show the client the model and ask for their opinions on the layout.</p>	<p>The results will be in the form of feedback from the client, either positive or negative and will be used to rework our design to both meet the client's specific requests for this space and their requests for the overall building, so that neither part causes problems for the other.</p>	<p>The estimated test period for this objective begins with the creation of the model and ends once feedback from clients is given, and could be repeated if the model is changed. This can be expected to take from early november until design day.</p>	<p>It will finish when either the client approves of the design or there is not enough time to remodel the design.</p>
2	Receiving feedback on the current building blueprint	<p>We have made a new blueprint of the building that amalgamates the parts of each previous design that the client liked.</p> <p>We will show this design to the client and ask them about their opinions on the new layout.</p>	<p>The results will be in the form of feedback from the client on each individual part of our blueprint. From the results, we will keep the parts they like unchanged, and redesign the parts the client did not like so that the parts are designed the way the client wishes.</p>	<p>This process should be resolved when the client is able to respond to our questions regarding our third client meeting. Ideally by November 17th.</p>	<p>This process will be complete when the feedback from the clients is given, and the group reaches a decision that works with their solution.</p>

Figure 2: prototyping test plan table

5. Bill of materials

Estimate Name: [prototype II](#) Data Release: [Year 2018](#)
Model: Office, 2-4 Story with Stone Veneer / Wood Frame


	\$1,826,163.60 Building Cost	NATIONAL AVERAGE Location	2 Stories (Ea.)	No Basement
	\$230.58 Cost per S.F.	7,920 Floor Area	12.00 Story Height	\$1,497.00 Additive Cost

Figure 3: Bill of materials estimate for building