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# Robb Garden Building


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# ROBB GARDEN BUILDING

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STAYSHA DELGADO, LILLIAN SAM, RYAN TEIXEIRA, COURTNEY VIERRA



# CUSTOMER NEEDS

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- 700 square foot, one-story building
- Incorporate the following:
  - Garden Resource Library to function as a seminar room/workshop space
    - Capacity of 20 people
  - Office space with two desks (approx. 100 sq. feet)
    - Doors open to the Garden
  - Garden shed (approx. 400 sq. feet)
    - Open to a paved patio with an outdoor sink
    - Mudroom
    - Roll-up market window facing the street
  - Seed library
    - Controlled temperature

# REVISED 3D MODEL

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# CLIENT'S REQUESTS / REVISIONS

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- **Entrance**
  - A defined main entrance, lounge area with open entry to library / seminar room
- **Shed**
  - The large shed door opens directly onto the garden
  - Included standard automated garage door for ease of access
- **Director's space**
  - Door opening from Director's office to patio
  - Direct line of sight from office to entrance / foyer

# CLIENT'S REQUESTS / REVISIONS

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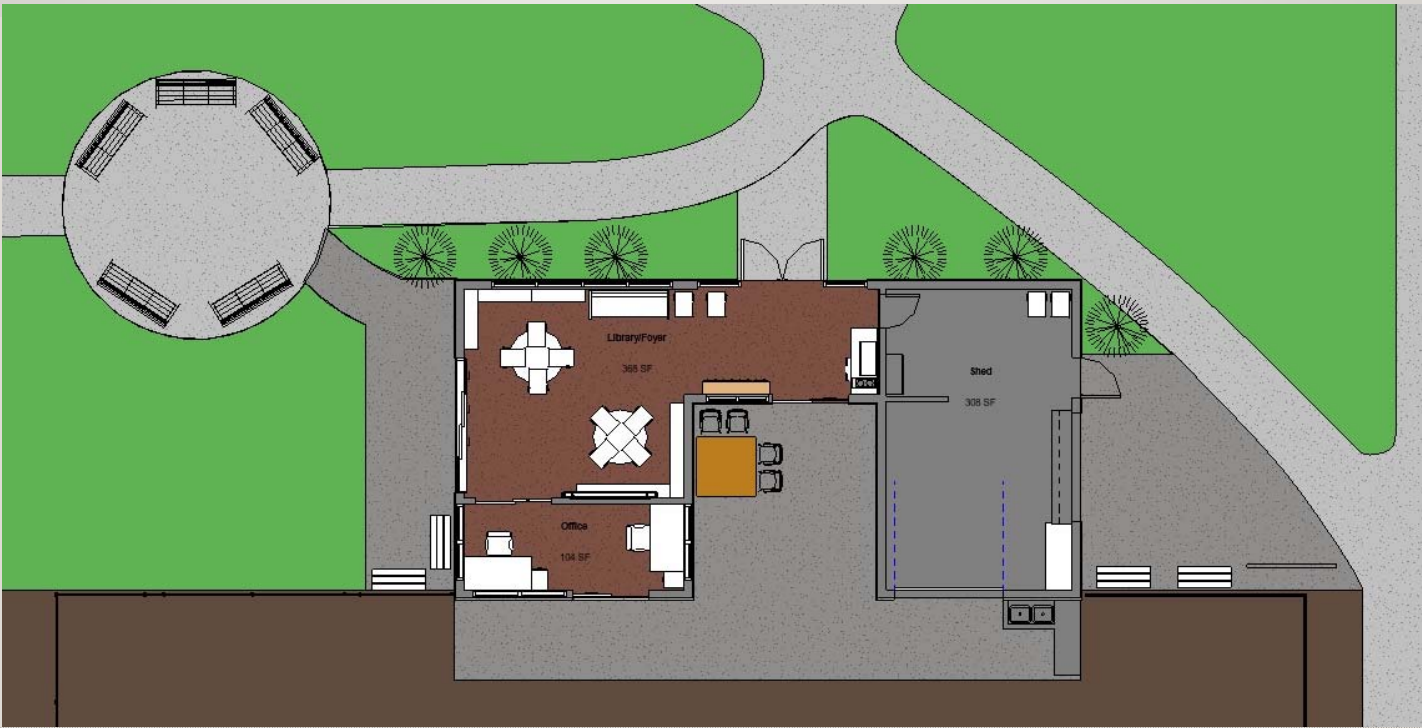
- **The Seminar Room**

- One or two round tables, lots of stackable chairs, and a corner sofa
- Plenty of shelves for Garden Resource Library
- Larger room to accommodate 20 people

- **Exterior**

- Moved the sink closer to the shed
- Enlarged counter space for setting produce and tools on
- Solar panels on roof

# ARCHITECTURE – FLOOR PLAN



# KEY DESIGN FEATURES

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# KEY DESIGN FEATURES

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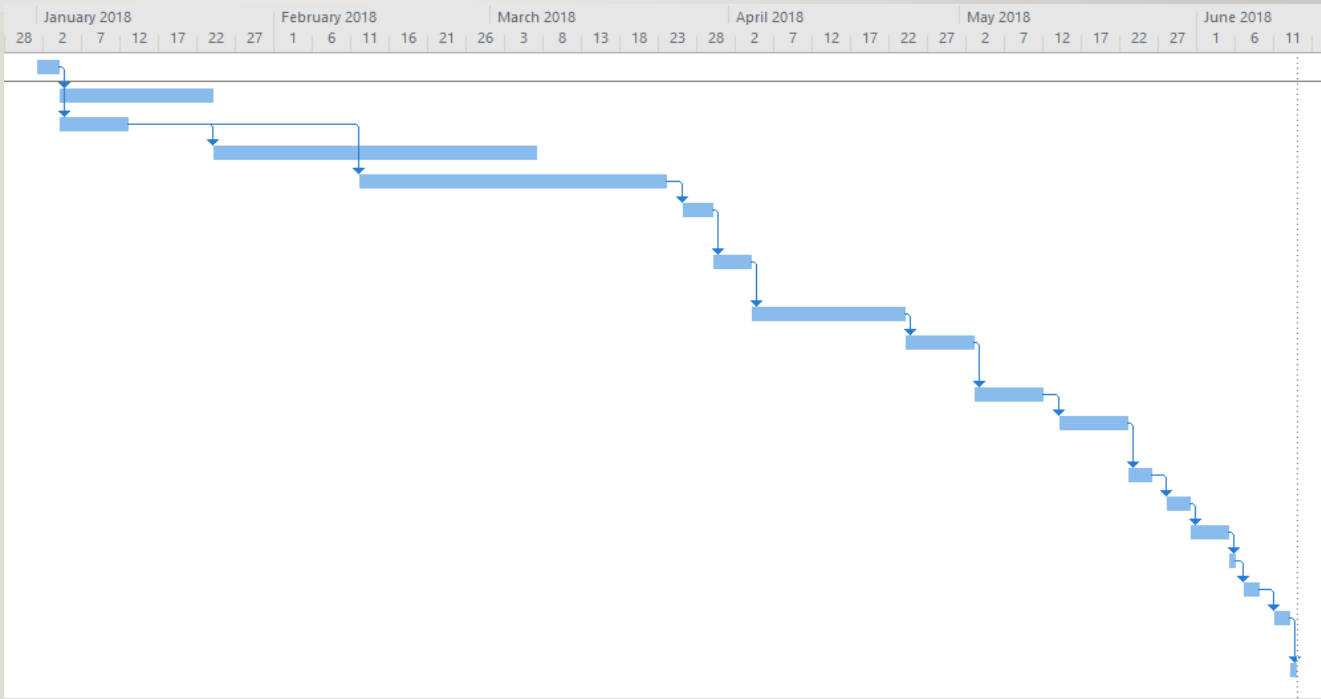
# KEY DESIGN FEATURES

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# SCHEDULE OF CONSTRUCTION PROCESS


Task Name	Duration	Start	Finish	Predecessors
Excavation	3 days	Mon 1/1/18	Wed 1/3/18	
Foundation	14 days	Thu 1/4/18	Tue 1/23/18	1
Utilities	7 days	Thu 1/4/18	Fri 1/12/18	1
Framing	30 days	Wed 1/24/18	Tue 3/6/18	3
Roofing	30 days	Mon 2/12/18	Fri 3/23/18	3
Install Doors and Windows	4 days	Mon 3/26/18	Thu 3/29/18	5
Weather Resistant Barrier	3 days	Fri 3/30/18	Tue 4/3/18	6
Brick Facade	14 days	Wed 4/4/18	Mon 4/23/18	7
Rough Plumbing	7 days	Tue 4/24/18	Wed 5/2/18	8
Mechanical Systems	7 days	Thu 5/3/18	Fri 5/11/18	9
Rough Lighting and Electrical	7 days	Mon 5/14/18	Tue 5/22/18	10
Insulation	3 days	Wed 5/23/18	Fri 5/25/18	11
Drywall	3 days	Mon 5/28/18	Wed 5/30/18	12
Flooring	3 days	Thu 5/31/18	Mon 6/4/18	13
Painting	1 day	Tue 6/5/18	Tue 6/5/18	14
Finish Plumbing	2 days	Thu 6/7/18	Fri 6/8/18	15
Finish Electrical and Lighting	2 days	Mon 6/11/18	Tue 6/12/18	16
Furnishing	1 day	Wed 6/13/18	Wed 6/13/18	17



# TIMELINE

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Monday 9:00:00 AM 1/1/2018 Day=1 Week=1



# ENERGY ANALYSIS / COST ESTIMATE

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- Green Building Studio Energy Analysis
  - Annual Cost: \$1,648
  - Lifecycle Cost: \$22,445
  - Potential Solar Panel Cost Savings: \$256 per year
- Total Material Cost Estimate
  - \$67,700

# SWOT ANALYSIS

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Strengths	Weaknesses
<ul style="list-style-type: none"><li>•Practical design</li><li>•Environmentally friendly</li><li>•Less food is being wasted if they harvest only what they need</li><li>•Seminar area available</li><li>•Opens up to the outdoor classroom (poses awareness for the outdoor classroom)</li></ul>	<ul style="list-style-type: none"><li>•Space is a bit cramped</li><li>•Limited area</li><li>•Storage containers were not used</li><li>•There are no bathrooms in the building</li><li>•Removal of trees</li></ul>
Opportunities	Threats
<ul style="list-style-type: none"><li>•Possibility of collaborating with other farmers or outside vendor to promote eating locally or having a wider selection on foods</li><li>•Impressing the donors with how much the program has grown</li><li>•Increase the awareness of the garden program</li><li>•The growth of the sustainability department</li><li>•Possibly adding a class specific to this field</li></ul>	<ul style="list-style-type: none"><li>•Sales may decrease because the building is located further from the centralized leisure area</li><li>•Removal of donor trees</li><li>•Increase price in tuition</li><li>•The garden program runs out of fund after construction</li></ul>

# ACKNOWLEDGEMENTS

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- Dr. Khazaeli
- Jeremy Hanlon

THANK YOU!

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Questions?

