# TBD Engineering | Project Decision Matrix

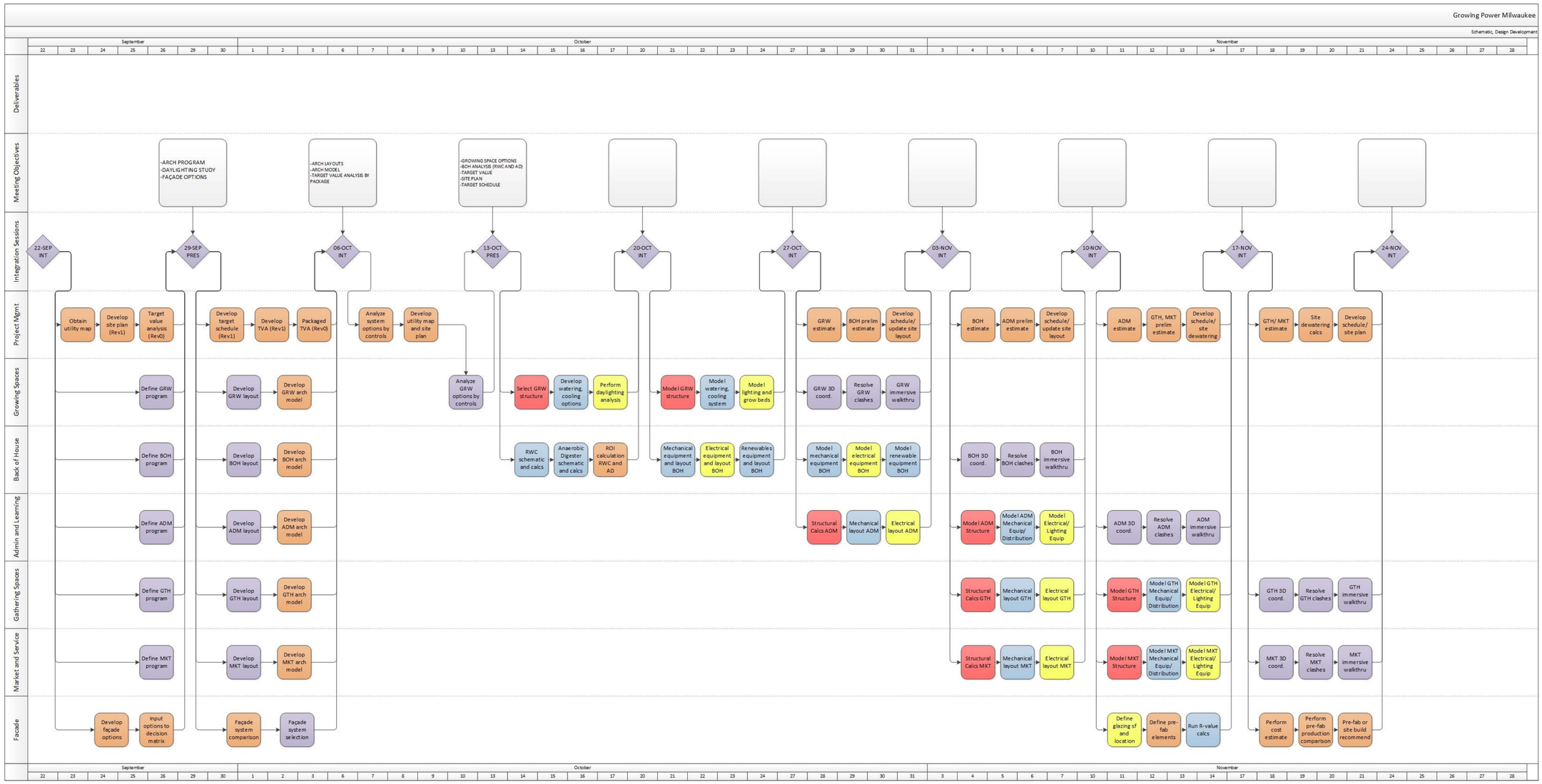
## Project Decision Matrix

| Option | Notes/ Justification | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Risks | Decision X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mechanical Systems** | | | | | | | | | | | | | |
| FCU w/DOAS | Save energy by recirculation | 5 | 4 | 3 | 4 | 1 | 4 | 5 | 3 | 3 | 4 | | |
| Valance Clg & Htg w/ DOAS | Eliminates Fan Power assoc. w/ Clg & Htg | 4 | 4 | 3 | 4 | 4 | 5 | 4 | 3 | 3 | 4 | | |
| WSHP w/ DOAS | Heat Rejection to Water Loop | 4 | 4 | 3 | 4 | 5 | 3 | 4 | 3 | 3 | 5 | Heat rejection to aquaponic system if present | X |
| Ground Source Heat Pump | Heat Rejection to Ground | 4 | 3 | 3 | 4 | 5 | 3 | 3 | 2 | 3 | 4 | | |
| **Electrical Distribution Options** | | | | | | | | | | | | | |
| DC | renewable energy driven | 2 | 4 | 3 | 3 | 5 | 3 | 5 | 2 | 3 | 5 | | |
| AC | standard from grid | 4 | 5 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | | X |
| **Generator Location Options** | | | | | | | | | | | | | |
| Generator Outside | | 5 | 2 | 3 | 3 | 5 | 5 | 2 | 5 | 3 | 3 | Invasive to site, prototypability affected | |
| Generator Basement | added areaway for maintenance, out of public eye | 2 | 5 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | | X |
| Generator Roof | | 4 | 4 | 3 | 3 | 1 | 4 | 2 | 1 | 3 | 3 | Invasive to growing spaces, fuel storage must be pumped vertically | |
| **Grow Light Options** | | | | | | | | | | | | | |
| LED | more specific wavelengths generated | 5 | 4 | 3 | 5 | 5 | 3 | 4 | 4 | 3 | 4 | | X |
| HID | | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 1 | 3 | 3 | more power required, more maintenance | |
| **Support Space Lighting Options** | | | | | | | | | | | | | |
| LED | | 5 | 3 | 3 | 5 | 4 | 3 | 4 | 5 | 3 | 4 | | X |
| FLUORESCENT | | 3 | 3 | 3 | 3 | 1 | 4 | 4 | 3 | 3 | 3 | more power required, more maintenance | |
| **Gravity System** | | | | | | | | | | | | | |
| Steel Noncomposite | | 4 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 2 | | |
| Steel Composite | | 4 | 2 | 2 | 3 | 3 | 4 | 3 | 3 | 5 | 2 | | X |
| Steel Castellated Beams | | 4 | 3 | 3 | 3 | 4 | 5 | 3 | 5 | 4 | 4 | Manufacturing different | |
| Timber Framing | | 2 | 2 | 5 | 3 | 4 | 2 | 1 | 2 | 2 | 4 | Slightly specialized market | |
| Concrete Two2way slab | | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 5 | 2 | | |
| Concrete pre-cast double tee | | 4 | 2 | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 4 | Slightly specialized market | |
| Concrete Post tension | | 3 | 3 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 2 | | |
| Concrete Bubble deck | | 2 | 4 | 5 | 3 | 4 | 4 | 3 | 2 | 1 | 5 | Extremely specialized market | |
| Acetylated wood | | 2 | 2 | 5 | 3 | 4 | 3 | 5 | 3 | 4 | 5 | | |
| **Foundation System** | | | | | | | | | | | | | |
| Mat Foundation | | 4 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 5 | 3 | | |
| Spread/Strip Footing | | 4 | 4 | 3 | 3 | 3 | 5 | 4 | 4 | 5 | 3 | | X |
| Beam (Grillage) | | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 3 | | |
| Deep Foundations | | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 4 | Expensive, invasive, slow | |
| Slurry Wall | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 4 | Expensive, invasive, slow | |
| Geopiers | | 4 | 4 | 4 | 3 | 4 | 5 | 4 | 4 | 2 | 5 | | X |
| **Lateral Systems** | | | | | | | | | | | | | |
| Steel Moment Frame | Requires Steel Gravity System | 5 | 5 | 3 | 3 | 3 | 2 | 3 | 5 | 4 | 3 | | X |
| Steel Braced Frame | | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | | |
| Masonry Shear Walls | | 2 | 2 | 4 | 3 | 3 | 3 | 4 | 1 | 4 | 3 | | |
| Concrete Moment Frame | Requires Concrete Gravity System | 5 | 5 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | | |
| Concrete Shear Wall | | 2 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 4 | 3 | | |
| **Green House Structural System** | | | | | | | | | | | | | |
| Wood | | 2 | 2 | 4 | 3 | 4 | 5 | 1 | 2 | 5 | 4 | | |
| Steel | | 5 | 4 | 4 | 3 | 3 | 5 | 4 | 4 | 5 | 3 | | |
| Non-toxic Treated Wood | | 4 | 2 | 5 | 3 | 4 | 4 | 5 | 3 | 4 | 5 | | X |
| **Façade Systems** | | | | | | | | | | | | | |
| Precast Panel | | 3 | 1 | 2 | 3 | 4 | 4 | 4 | 3 | 3 | 2 | | |
| Brick Cavity Wall | | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | Efflorescence, moisture, weight, slow | |
| Rain Screen | | 5 | 5 | 3 | 5 | 5 | 3 | 4 | 5 | 2 | 4 | Terra Cotta shipping location | X |
| **Renewable Energy On Site** | | | | | | | | | | | | | |
| Solar Power | | 3 | 5 | 5 | 5 | 4 | 5 | 3 | 2 | - | 3 | Milwaukee building blocking some sunlight | |
| Wind Power | | 2 | 5 | 5 | 5 | 4 | 5 | 3 | 2 | - | 3 | Invasive to Milwaukee site | |
| Anaerobic Digestion | Use food waste for primary fuel for CHP | 2 | 4 | 3 | 3 | 5 | 4 | 2 | 3 | 3 | 4 | | X |
| Rainwater Collection | Effectiveness for GH and Rest of Building | 4 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 3 | 4 | | X |

In order to consider a wide variety of options for the Growing Power facility, TBD developed and implemented a project decision matrix, shown left. Each design partner developed a list of options for various systems, listed in the leftmost column of the matrix. Each option was evaluated against the project goals (shown below) in each row, on a scale of 1-4. Project specific goals that fit into the 4 overarching goals of flexibility, community, economy, and sustainability are color coded as such.

| Project Goals | |
|---|---|
| 1 | Flexibility/ Adaptability to account for multiple space types/ locations |
| 2 | Prototypability of building/ ability to replicate in other locations |
| 3 | Recyclability of materials |
| 4 | Energy Saving Potential |
| 5 | Educational value |
| 6 | Economic use of materials |
| 7 | Maintainability of system for life span |
| 8 | Consideration of other systems (depth, size, etc.) |
| 9 | Specialized Market |
| 10 | Innovation |

# TBD Engineering | Design Schedule




Throughout the design phases, TBD set milestones during detailed in the process map to the left. The process map into horizontal swimlanes according to the developed design packages contained in the Growing Power facility.

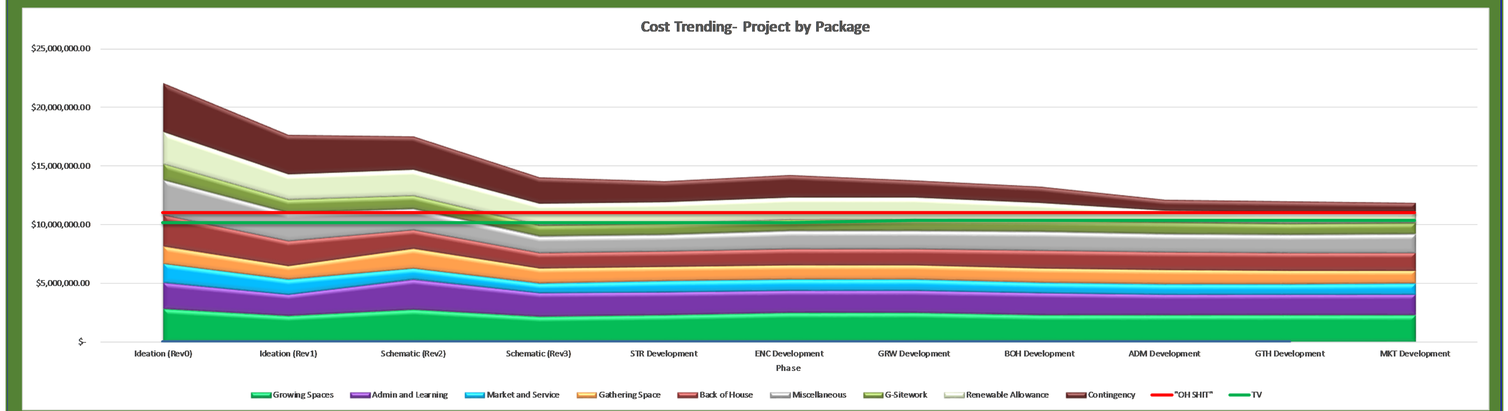
Tasks described in the process map are filled with a color to indicate the responsible partner; orange indicates management tasks, blue indicates mechanical tasks, yellow indicates electrical tasks, red indicates structural tasks, and purple indicates tasks that require input from all disciplines. Tasks can be seen displayed chronologically from left to right, in order of expected completion, to maintain a continuous, efficient workflow.

The process map was developed in parallel with TBD's collaborative planning sessions, as a way to visually represent the flow of the project's development. The map was continuously updated with each planning session, and displayed in the team's co-located office space to guide the team.

# TBD Engineering | Cost Trending Analysis

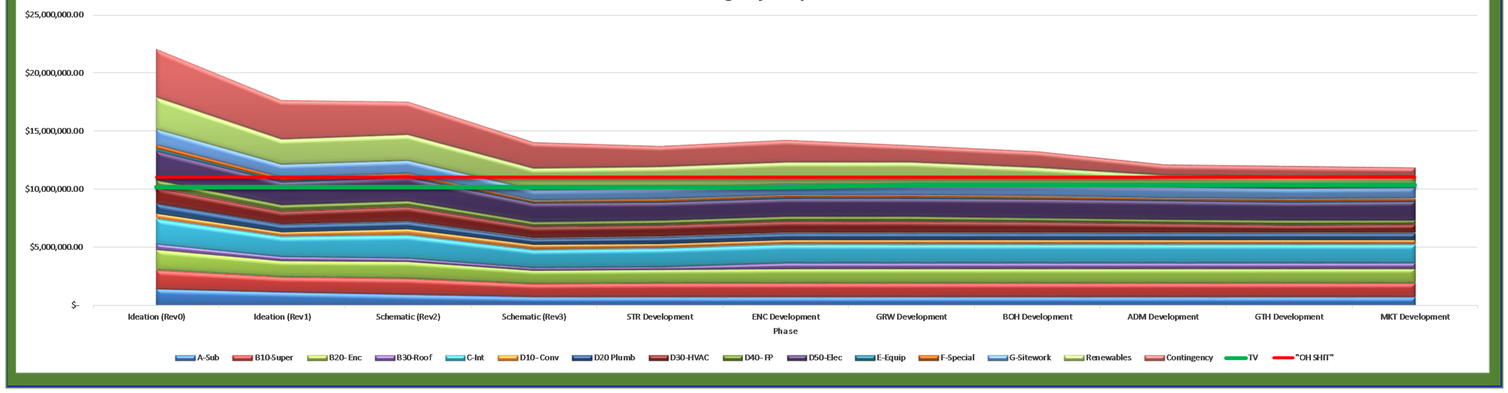
## Cost Trending- Overall Project by Package

| Milestone | Growing Spaces | Admin and Learning | Market and Service | Gathering Space | Back of House | Miscellaneous | G-Sitework | Renewable Allowance | Contingency | TV Low | TV | "OH SHIT" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ideation (Rev0) | $ 2,850,710.36 | $ 2,267,737.50 | $ 1,573,687.24 | $ 1,479,187.50 | $ 2,685,900.00 | $ 2,947,612.50 | $ 1,380,483.51 | $ 2,760,967.02 | $ 4,141,450.53 | $ - | $ 10,185,185.19 | $ 11,000,000.00 |
| Ideation (Rev1) | $ 2,280,568.29 | $ 1,814,190.00 | $ 1,258,949.79 | $ 1,183,350.00 | $ 2,148,720.00 | $ 2,358,090.00 | $ 1,104,386.81 | $ 2,208,773.62 | $ 3,313,160.42 | $ - | $ 10,185,185.19 | $ 11,000,000.00 |
| Schematic (Rev2) | $ 2,774,618.12 | $ 2,558,870.72 | $ 967,171.22 | $ 1,669,086.30 | $ 1,607,761.83 | $ 1,764,421.19 | $ 1,134,192.94 | $ 2,268,385.88 | $ 2,835,482.34 | $ - | $ 10,185,185.19 | $ 11,000,000.00 |
| Schematic (Rev3) | $ 2,219,694.49 | $ 2,047,096.58 | $ 773,736.98 | $ 1,335,269.04 | $ 1,286,209.47 | $ 1,411,536.95 | $ 907,354.35 | $ 1,814,708.70 | $ 2,268,385.88 | $ - | $ 10,185,185.19 | $ 11,000,000.00 |
| STR Development | $ 2,344,743.11 | $ 1,990,445.63 | $ 862,689.26 | $ 1,298,317.06 | $ 1,274,078.33 | $ 1,398,223.77 | $ 916,849.72 | $ 1,833,699.43 | $ 1,833,699.43 | $ - | $ 10,185,185.19 | $ 11,000,000.00 |
| ENC Development | $ 2,527,497.21 | $ 1,916,099.93 | $ 895,190.54 | $ 1,249,823.26 | $ 1,392,363.17 | $ 1,528,034.21 | $ 950,900.83 | $ 1,901,801.67 | $ 1,901,801.67 | $ - | $ 10,185,185.19 | $ 11,000,000.00 |
| GRW Development | $ 2,527,497.21 | $ 1,916,099.93 | $ 895,190.54 | $ 1,249,823.26 | $ 1,392,363.17 | $ 1,528,034.21 | $ 950,900.83 | $ 1,901,801.67 | $ 1,426,351.25 | $ - | $ 10,369,532.43 | $ 11,000,000.00 |
| BOH Development | $ 2,314,127.57 | $ 1,916,099.93 | $ 895,190.54 | $ 1,249,823.26 | $ 1,515,925.25 | $ 1,528,034.21 | $ 941,920.08 | $ 1,517,000.00 | $ 1,412,880.11 | $ - | $ 10,369,532.43 | $ 11,000,000.00 |
| ADM Development | $ 2,314,127.57 | $ 1,777,489.02 | $ 895,190.54 | $ 1,249,823.26 | $ 1,515,925.25 | $ 1,528,034.21 | $ 928,058.99 | $ 1,017,000.00 | $ 928,058.99 | $ - | $ 10,369,532.43 | $ 11,000,000.00 |
| GTH Development | $ 2,314,127.57 | $ 1,777,489.02 | $ 895,190.54 | $ 1,159,410.88 | $ 1,515,925.25 | $ 1,528,034.21 | $ 919,017.75 | $ 1,017,000.00 | $ 919,017.75 | $ - | $ 10,369,532.43 | $ 11,000,000.00 |
| MKT Development | $ 2,314,127.57 | $ 1,777,489.02 | $ 929,549.50 | $ 1,159,410.88 | $ 1,515,925.25 | $ 1,528,034.21 | $ 922,453.64 | $ 1,017,000.00 | $ 691,840.23 | $ - | $ 10,369,532.43 | $ 11,000,000.00 |




## Cost Tracking- Overall Project by Division

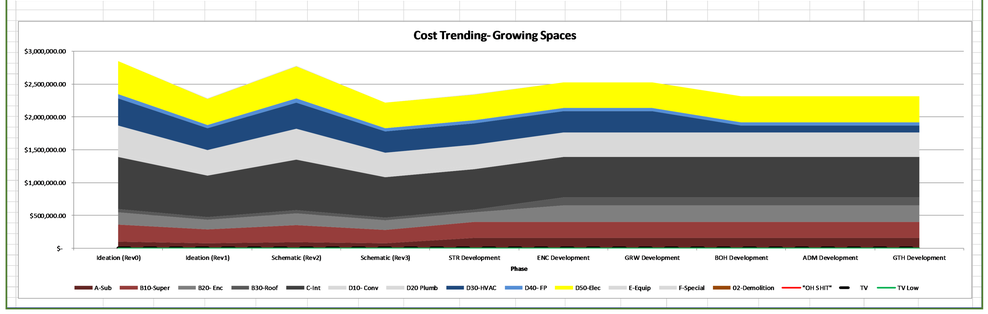
| Milestone | A-Sub | B10-Super | B20- Enc | B30-Roof | C-Int | D10- Conv | D20 Plumb | D30-HVAC | D40- FP | D50-Elec | E-Equip | F-Special | G-Sitework | Renewables | Contingency |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ideation (Rev0) | $ 1,426,785.68 | $ 1,623,176.63 | $ 1,746,423.53 | $ 504,338.10 | $ 2,146,776.19 | $ 486,055.50 | $ 826,798.61 | $ 1,393,387.54 | $ 636,243.83 | $ 2,492,143.24 | $ 190,329.04 | $ 332,377.24 | $ 1,380,483.51 | $ 2,760,967.02 | $ 4,141,450.53 |
| Ideation (Rev1) | $ 1,141,428.54 | $ 1,298,541.30 | $ 1,397,138.82 | $ 403,470.48 | $ 1,717,420.95 | $ 388,844.40 | $ 661,438.89 | $ 1,114,710.03 | $ 508,995.06 | $ 1,993,714.59 | $ 152,263.23 | $ 265,901.79 | $ 1,104,386.81 | $ 2,208,773.62 | $ 3,313,160.42 |
| Schematic (Rev2) | $ 935,318.04 | $ 1,396,450.90 | $ 1,464,346.71 | $ 332,387.89 | $ 1,927,299.51 | $ 538,739.76 | $ 708,072.52 | $ 1,248,630.32 | $ 464,046.02 | $ 2,012,656.89 | $ 115,022.03 | $ 198,958.80 | $ 1,134,192.94 | $ 2,268,385.88 | $ 2,835,482.34 |
| Schematic (Rev3) | $ 748,254.43 | $ 1,117,160.72 | $ 1,171,477.37 | $ 265,910.31 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 998,904.26 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 907,354.35 | $ 1,814,708.70 | $ 2,268,385.88 |
| STR Development | $ 770,370.25 | $ 1,189,998.55 | $ 1,171,477.37 | $ 265,910.31 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 998,904.26 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 916,849.72 | $ 1,833,699.43 | $ 1,833,699.43 |
| ENC Development | $ 770,370.25 | $ 1,189,998.55 | $ 1,195,257.05 | $ 582,641.80 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 998,904.26 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 950,900.83 | $ 1,901,801.67 | $ 1,901,801.67 |
| GRW Development | $ 770,370.25 | $ 1,189,998.55 | $ 1,195,257.05 | $ 582,641.80 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 998,904.26 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 950,900.83 | $ 1,901,801.67 | $ 1,426,351.25 |
| BOH Development | $ 770,370.25 | $ 1,189,998.55 | $ 1,195,257.05 | $ 582,641.80 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 909,096.70 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 941,920.08 | $ 1,517,000.00 | $ 1,412,880.11 |
| ADM Development | $ 770,370.25 | $ 1,189,998.55 | $ 1,195,257.05 | $ 582,641.80 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 770,485.78 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 928,058.99 | $ 1,017,000.00 | $ 928,058.99 |
| GTH Development | $ 770,370.25 | $ 1,189,998.55 | $ 1,195,257.05 | $ 582,641.80 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 680,073.41 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 919,017.75 | $ 1,017,000.00 | $ 919,017.75 |
| MKT Development | $ 770,370.25 | $ 1,189,998.55 | $ 1,195,257.05 | $ 582,641.80 | $ 1,541,839.60 | $ 430,991.81 | $ 566,458.02 | $ 714,432.36 | $ 371,236.82 | $ 1,610,125.51 | $ 92,017.62 | $ 159,167.04 | $ 922,453.64 | $ 1,017,000.00 | $ 691,840.23 |



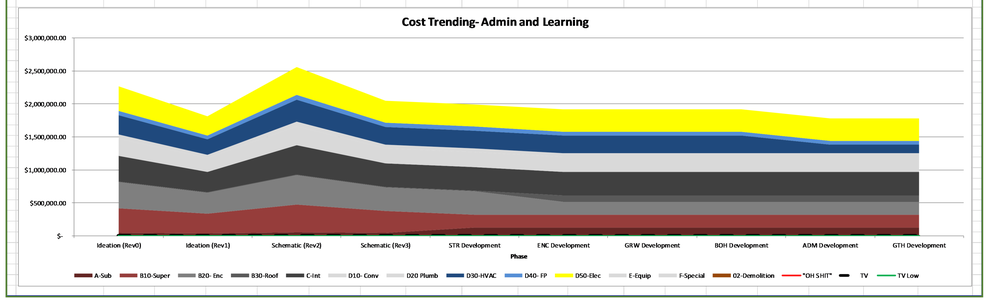

In order to continually evaluate project costs against their targets, an in-depth analysis was devised. The overall project tracked designed costs by Integrated Design Packages and by Uniformat II divisions, shown to the left. The 6 IDPs were broken down further by Uniformat II divisions, with examples shown below. The multi-layer approach allowed TBD to quickly identify alarming trends through the course of the project's development and utilize cost as an informant to design, rather than a "design now, estimate later" approach which, more often than not, results in cost cutting techniques rather than truly engineering value as defined by the ownership partners at Growing Power.

At the end of the project's development, the project estimate stood at a value of $11.9 million, including a $1 million allowance for a Combined Heat and Power plant in the Back of House area, and rainwater and groundwater harvesting systems.

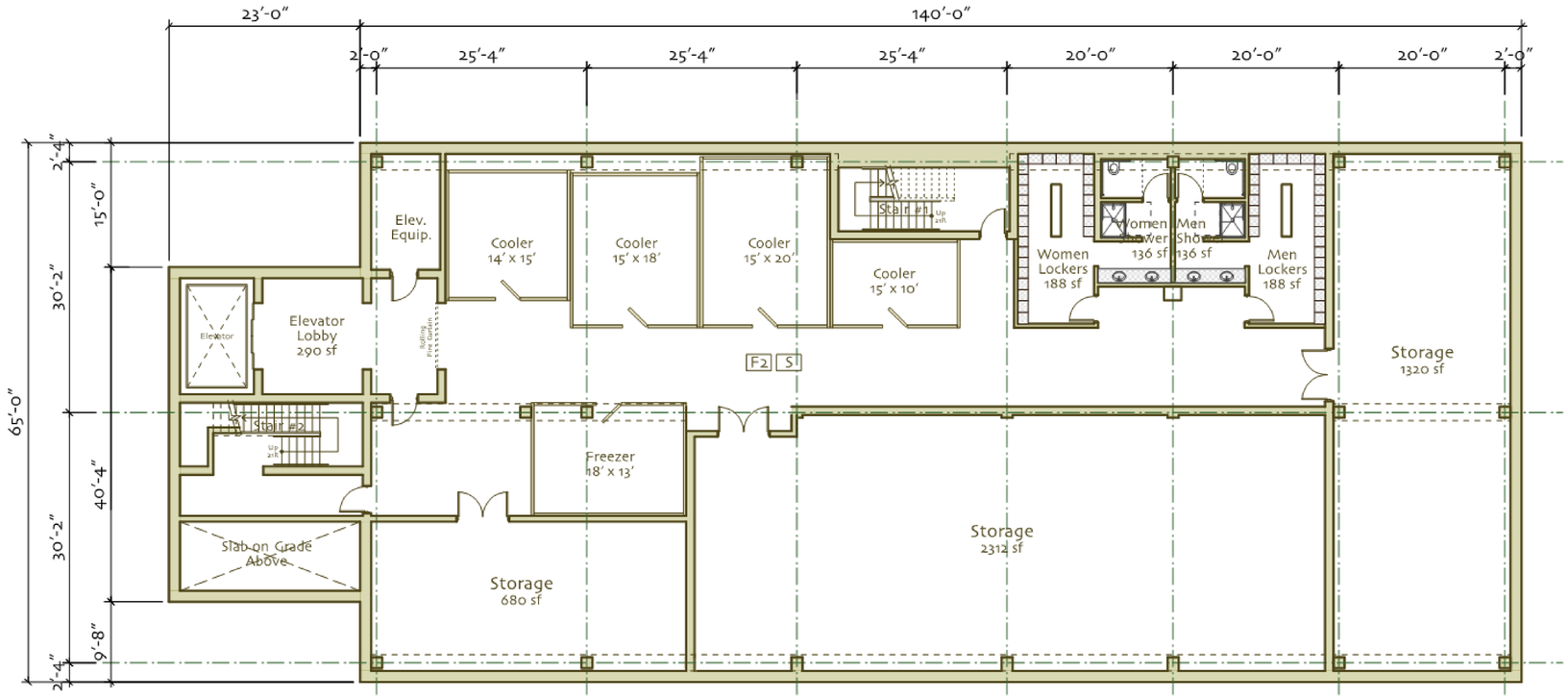
| | 3.5% | 9.1% | 6.5% | 1.8% | 27.8% | 2.2% | 14.7% | 14.5% | 2.3% | 17.6% | 0.1% | 0.0% | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Milestone | A-Sub | B10-Super | B20- Enc | B30-Roof | C-Int | D10- Conv | D20 Plumb | D30-HVAC | D40- FP | D50-Elec | E-Equip | F-Special | 02-Demolition | TV Low | TV | "OH SHIT" |
| Ideation (Rev0) | $ 99,675.19 | $ 259,155.49 | $ 183,111.06 | $ 51,261.53 | $ 791,705.78 | $ 62,652.98 | $ 418,635.79 | $ 432,940.06 | $ 65,500.84 | $ 501,223.80 | $ 2,847.86 | $ - | $ - | $ - | $ - | $ - |
| Ideation (Rev1) | $ 79,740.15 | $ 207,324.39 | $ 148,088.85 | $ 41,009.22 | $ 633,364.62 | $ 50,122.38 | $ 334,908.63 | $ 330,352.05 | $ 52,400.67 | $ 400,979.04 | $ 2,278.29 | $ - | $ - | $ - | $ - | $ - |
| Schematic (Rev2) | $ 97,014.62 | $ 252,238.01 | $ 180,170.01 | $ 49,893.23 | $ 770,573.26 | $ 60,980.62 | $ 407,461.40 | $ 401,917.71 | $ 63,752.46 | $ 487,844.94 | $ 2,771.85 | $ - | $ - | $ - | $ - | $ - |
| Schematic (Rev3) | $ 77,631.70 | $ 201,790.41 | $ 144,136.01 | $ 39,914.59 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 321,534.17 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |
| STR Development | $ 158,937.85 | $ 245,512.87 | $ 144,136.01 | $ 39,914.59 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 321,534.17 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |
| ENC Development | $ 158,937.85 | $ 245,512.87 | $ 246,597.77 | $ 120,206.92 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 321,534.17 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |
| GRW Development | $ 158,937.85 | $ 245,512.87 | $ 246,597.77 | $ 120,206.92 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 321,534.17 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |
| BOH Development | $ 158,937.85 | $ 245,512.87 | $ 246,597.77 | $ 120,206.92 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 108,164.53 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |
| ADM Development | $ 158,937.85 | $ 245,512.87 | $ 246,597.77 | $ 120,206.92 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 108,164.53 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |
| GTH Development | $ 158,937.85 | $ 245,512.87 | $ 246,597.77 | $ 120,206.92 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 108,164.53 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |
| MKT Development | $ 158,937.85 | $ 245,512.87 | $ 246,597.77 | $ 120,206.92 | $ 616,458.61 | $ 48,784.49 | $ 325,969.12 | $ 108,164.53 | $ 51,001.97 | $ 390,275.95 | $ 2,217.48 | $ - | $ - | $ - | $ - | $ - |

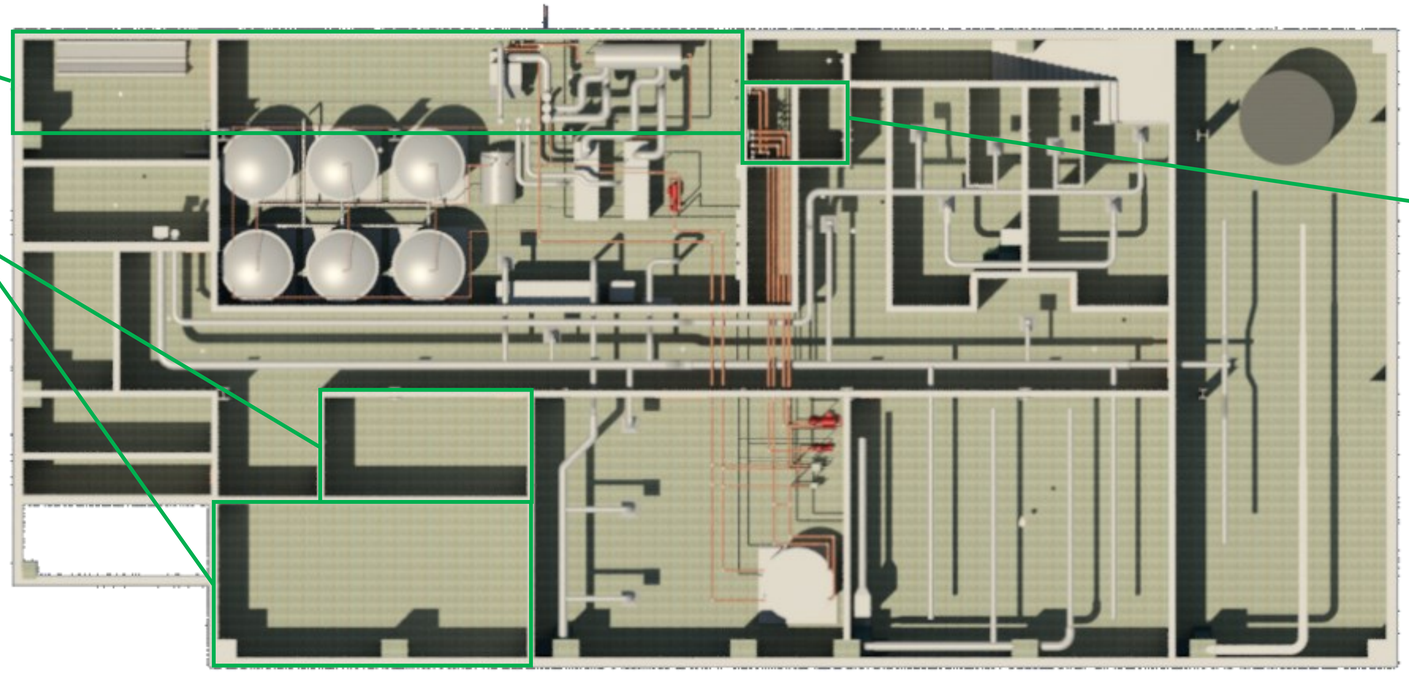



| | 2.1% | 16.4% | 17.4% | 0.5% | 17.2% | 11.3% | 2.8% | 13.0% | 2.9% | 16.4% | 0.0% | 0.0% | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Milestone | A-Sub | B10-Super | B20- Enc | B30-Roof | C-Int | D10- Conv | D20 Plumb | D30-HVAC | D40- FP | D50-Elec | E-Equip | F-Special | 02-Demolition | TV Low | TV | "OH SHIT" |
| Ideation (Rev0) | $ 47,622.49 | $ 371,908.95 | $ 394,586.33 | $ 11,338.69 | $ 390,050.85 | $ 256,254.34 | $ 63,496.65 | $ 294,805.88 | $ 65,764.39 | $ 371,908.95 | $ - | $ - | $ - | $ - | $ - | $ - |
| Ideation (Rev1) | $ 38,097.99 | $ 297,527.16 | $ 315,669.06 | $ 9,070.95 | $ 312,040.68 | $ 205,003.47 | $ 50,797.32 | $ 235,844.70 | $ 52,611.51 | $ 297,527.16 | $ - | $ - | $ - | $ - | $ - | $ - |
| Schematic (Rev2) | $ 53,736.29 | $ 419,654.80 | $ 445,243.51 | $ 12,794.35 | $ 440,125.76 | $ 289,152.39 | $ 71,648.38 | $ 332,653.19 | $ 74,207.25 | $ 419,654.80 | $ - | $ - | $ - | $ - | $ - | $ - |
| Schematic (Rev3) | $ 42,989.03 | $ 335,723.84 | $ 356,194.80 | $ 10,235.48 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 266,122.55 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |
| STR Development | $ 126,561.35 | $ 195,500.57 | $ 356,194.80 | $ 10,235.48 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 266,122.55 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |
| ENC Development | $ 126,561.35 | $ 195,500.57 | $ 196,364.47 | $ 95,720.12 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 266,122.55 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |
| GRW Development | $ 126,561.35 | $ 195,500.57 | $ 196,364.47 | $ 95,720.12 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 266,122.55 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |
| BOH Development | $ 126,561.35 | $ 195,500.57 | $ 196,364.47 | $ 95,720.12 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 266,122.55 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |
| ADM Development | $ 126,561.35 | $ 195,500.57 | $ 196,364.47 | $ 95,720.12 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 127,511.64 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |
| GTH Development | $ 126,561.35 | $ 195,500.57 | $ 196,364.47 | $ 95,720.12 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 127,511.64 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |
| MKT Development | $ 126,561.35 | $ 195,500.57 | $ 196,364.47 | $ 95,720.12 | $ 352,100.61 | $ 231,321.91 | $ 57,318.70 | $ 127,511.64 | $ 59,365.80 | $ 335,723.84 | $ - | $ - | $ - | $ - | $ - | $ - |



# TBD Engineering | Basement Floor Plan

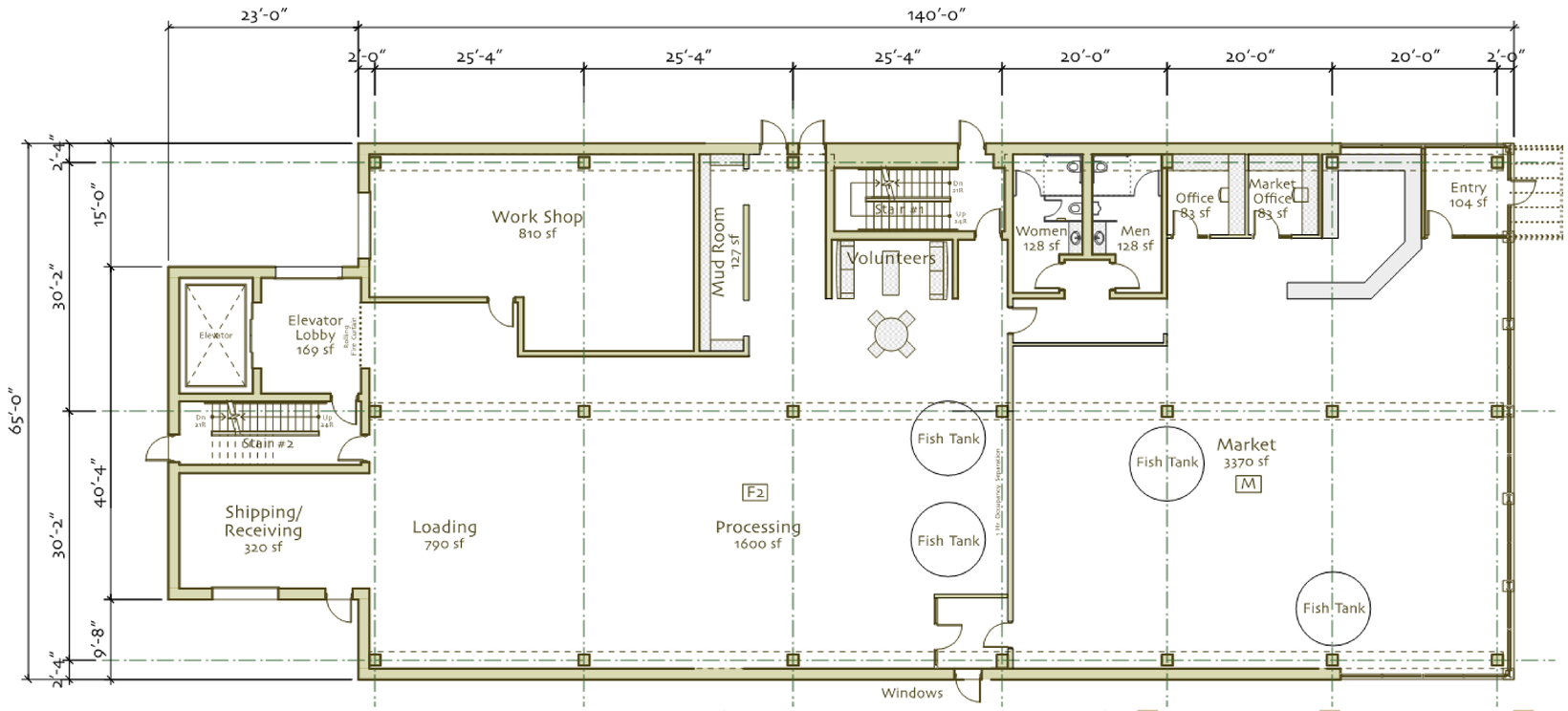


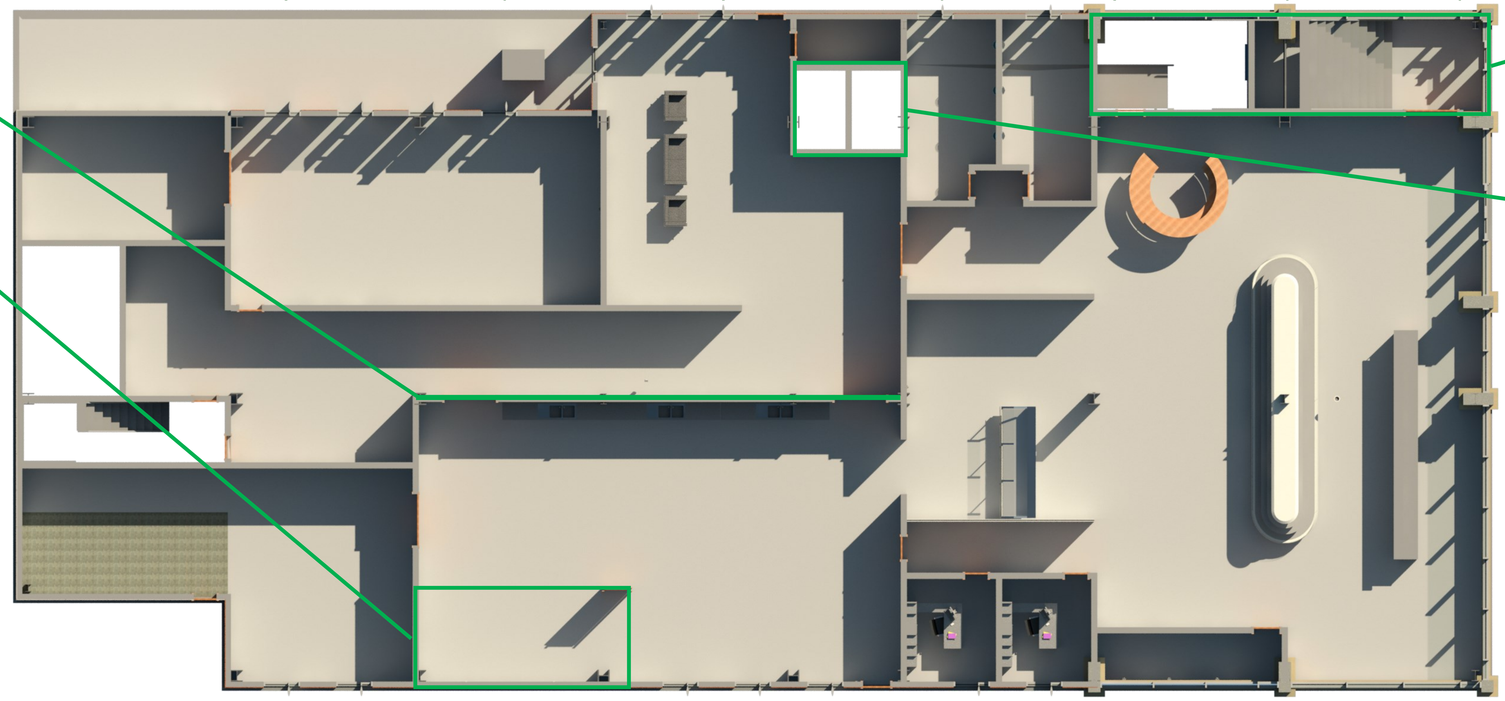




**Top:** Basement Floor Plan as provided to the team

**Bottom:** Modified Basement Floor Plan by TBD

# TBD Engineering | Level 1 Floor Plan

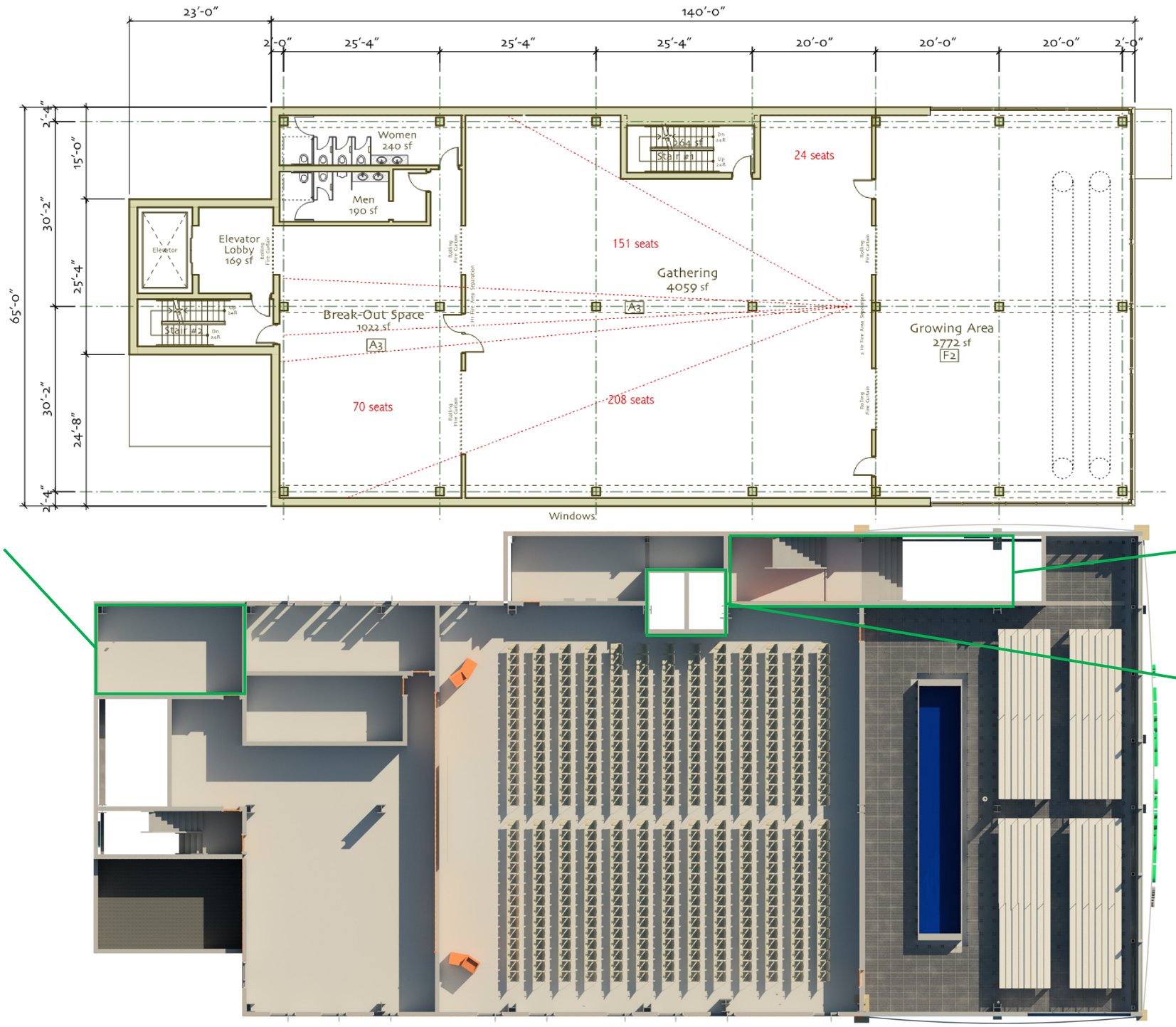



**Top:** Level 1 Floor Plan as provided to the team

**Bottom:** Modified Level 1 Floor Plan by TBD

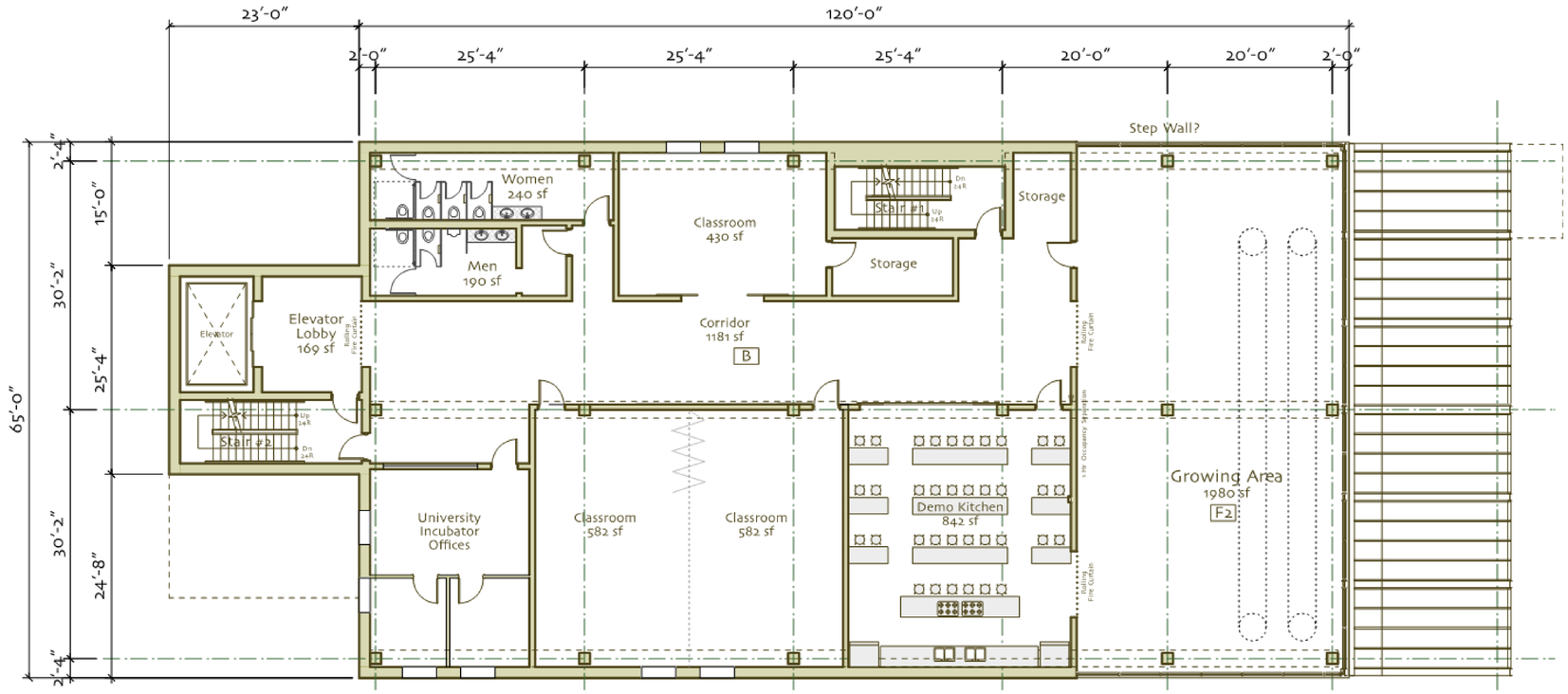
# TBD Engineering | Level 2 Floor Plan

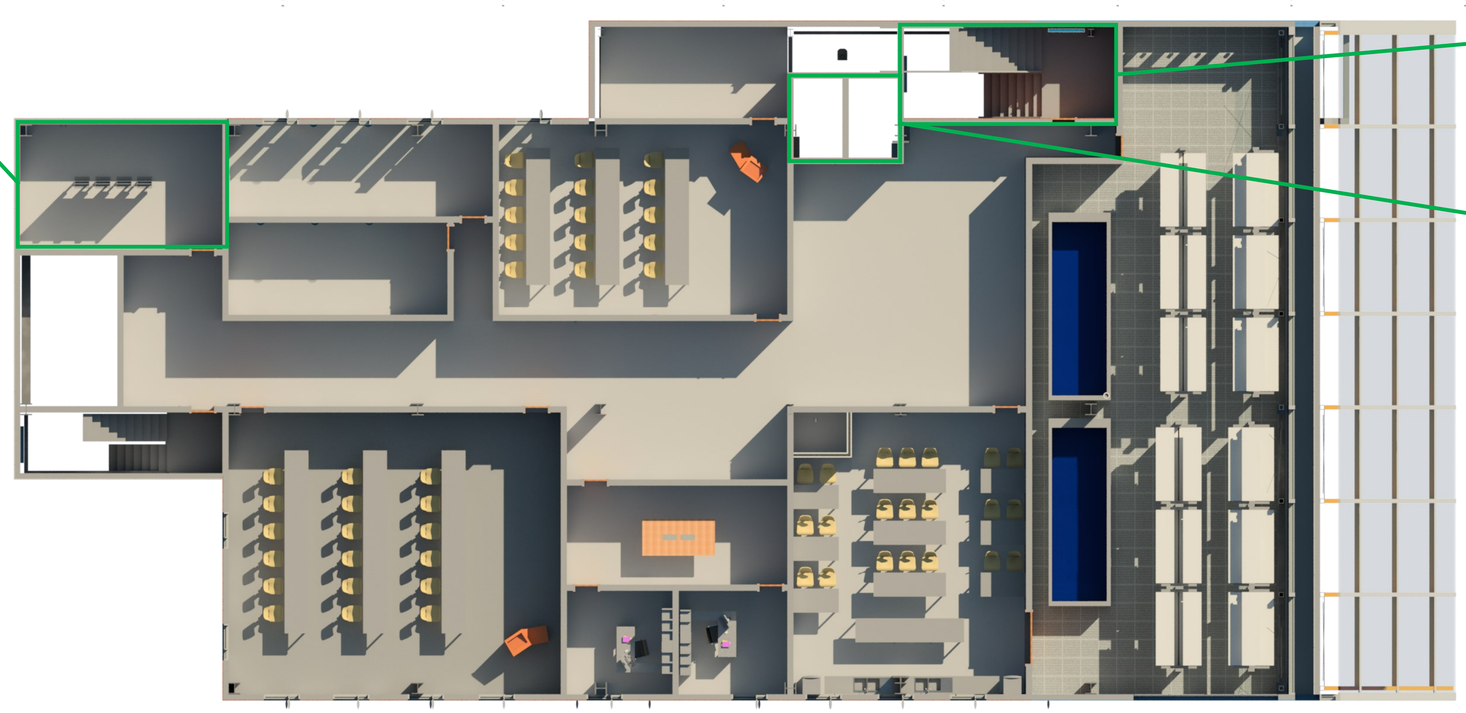



**Top:** Level 2 Floor Plan as provided to the team

**Bottom:** Modified Level 2 Floor Plan by TBD

# TBD Engineering | Level 3 Floor Plan

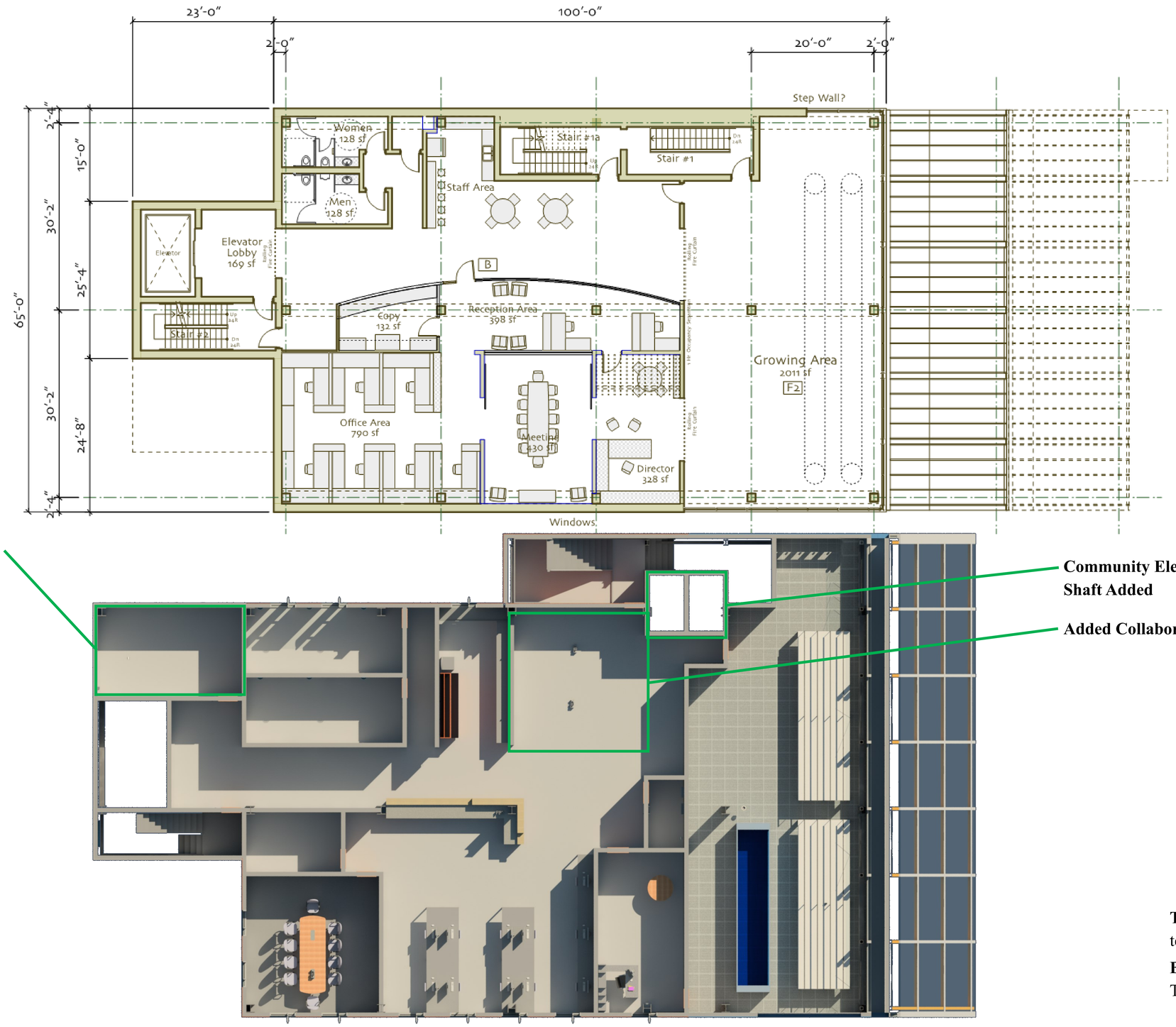



**Top:** Level 3 Floor Plan as provided to the team

**Bottom:** Modified Level 3 Floor Plan by TBD

# TBD Engineering | Level 4 Floor Plan



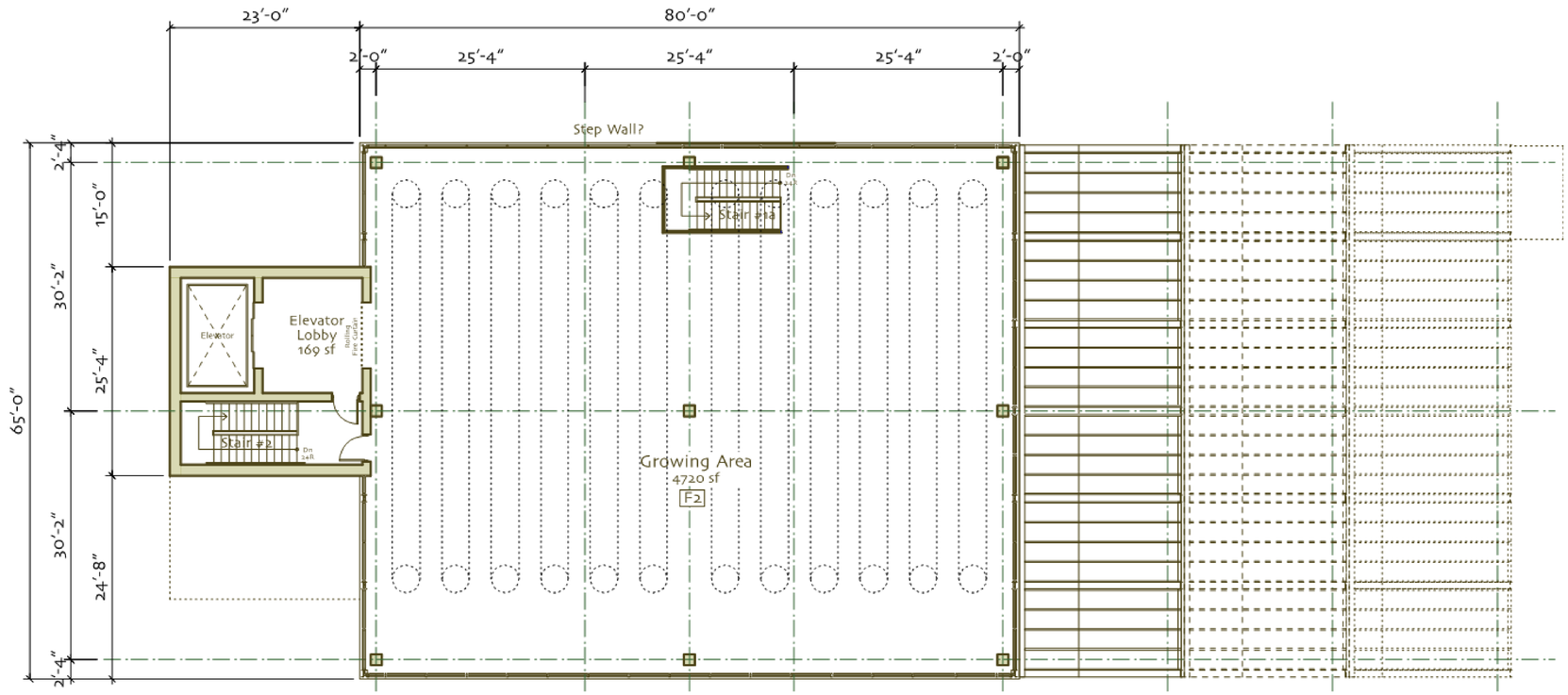

**Auziliary Mechanical and Electrical Space Added**

**Community Elevator and MEP Shaft Added**

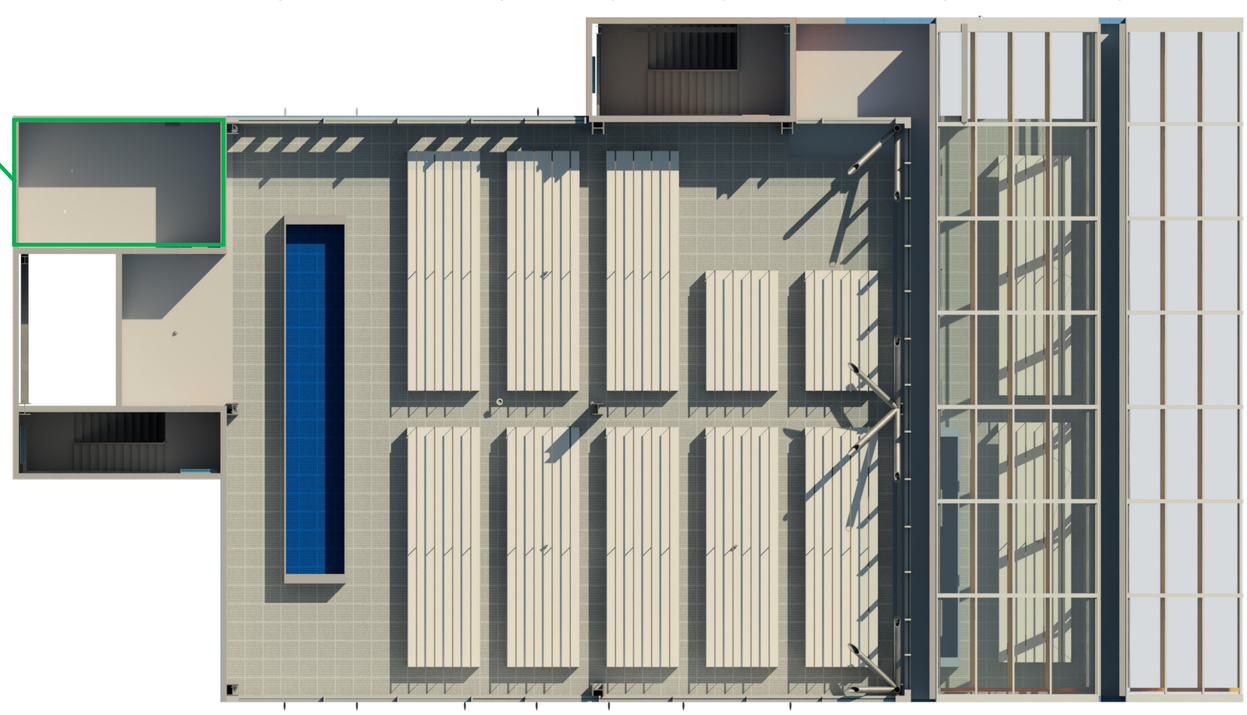
**Added Collaboration Space**

**Top:** Level 4 Floor Plan as provided to the team

**Bottom:** Modified Level 4 Floor Plan by TBD




**Mechanical Equipment Roof Space**



**Top:** Level 5 Floor Plan as provided to the team

**Bottom:** Modified Level 5 Floor Plan by TBD