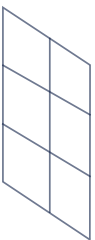
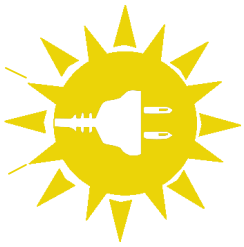


# ELECTRICAL

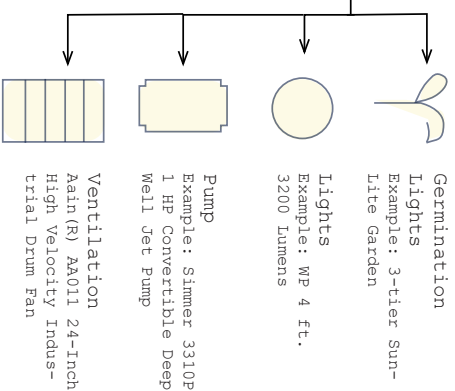


**SUNLIGHT** → Panels (6 kW)  
21 Modules  
Example: REC Solar, 280 TP

→ Inverter  
Example: Enphase M250, 240V

**SCL GRID**

← **ELECTRICITY**



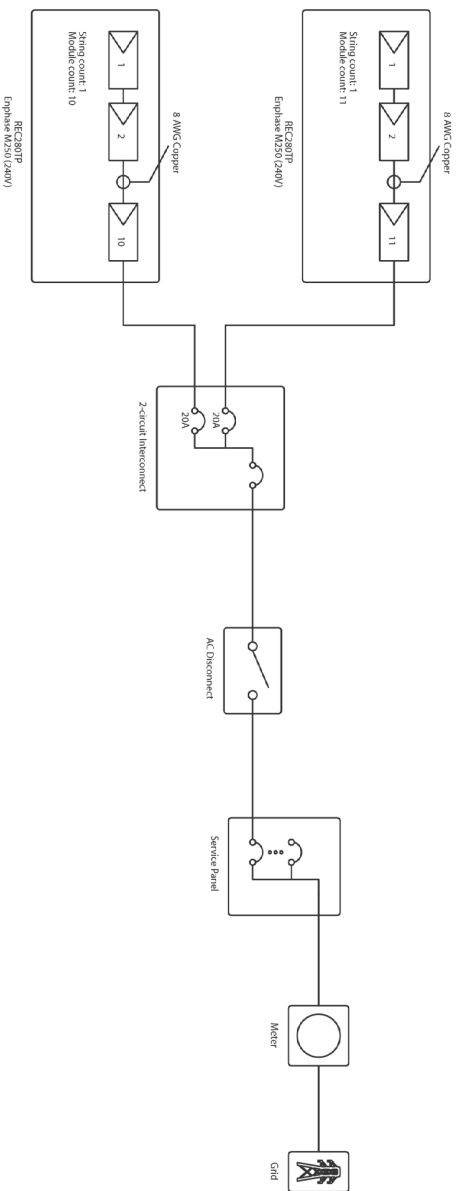
**Germination Lights**  
Example: 3-tier Sun-Lite Garden  
Average use: 1.9 kwh/day  
Maximum consumption: 7.8 kwh  
Minimum consumption: 0 kwh

**Lights**  
Example: WP 4 ft., 3200 Lumens  
Average consumption: 1.5 kwh  
Maximum consumption: 2.3 kwh  
Minimum consumption: 0 kwh

**Pump**  
Example: Simmer 3310P 1 HP Convertible Deep Well Jet Pump  
Average consumption: 4.6 kwh  
Maximum consumption: 4.6 kwh  
Minimum consumption: 4.6 kwh

**Ventilation**  
Aain (R) AA011 24-Inch High Velocity Industrial Drum Fan  
Average consumption: 4 kwh  
Maximum consumption: 6.3 kwh  
Minimum consumption: 1.6 kwh

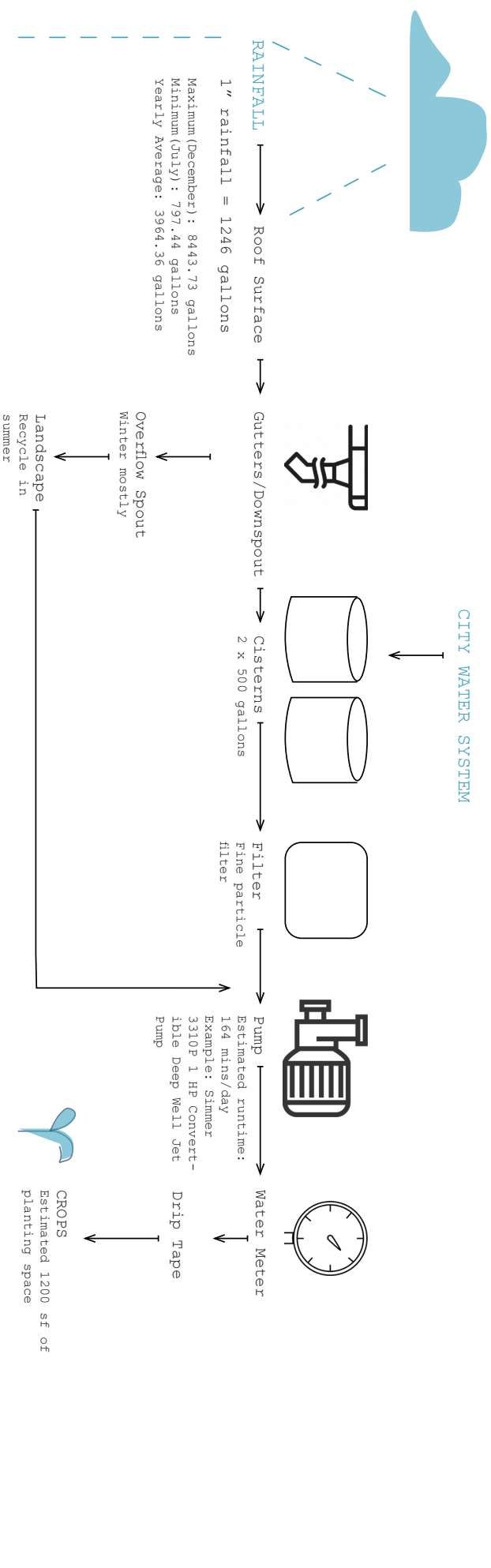
## ONE LINE DIAGRAM : HELIOSCOPE



### TOTAL POWER USE:

Average: 12 kwh  
Maximum: 21 kwh  
Minimum: 6.2 kwh

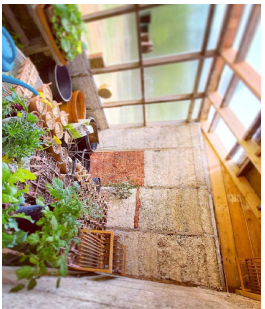
# HYDROLOGY



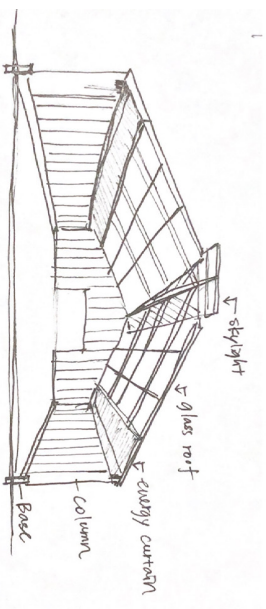
**TOTAL WATER USE:**  
 Estimated average monthly water requirement: 4296 gallons  
 High (August): 5423 gallons  
 Low (December): 3310 gallons

# ARCHITECTURE

## INSPIRATION



- North Wall functions as insulation, retaining more heat
- Additional space for storage or work tables/furnishings
- Saves cost of glazing all four sides, single roof allows for better water catchment.



## NORTH WALL GREENHOUSE

