



VALUES

HEALTH



RESILIENCY



COLLABORATION



INCLUSION



JOY



RESPECT



SIMPLICITY

CONNECTION TO NATURE

COMMUNITY

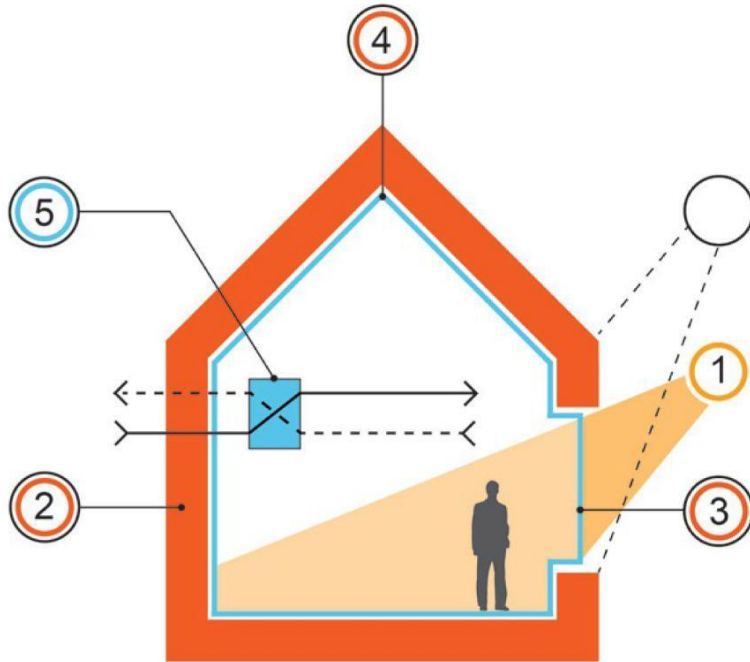
SUSTAINABILITY: BUILDING SCIENCE



- RESILIENCE
- HEALTH
- DURABILITY
- COMFORT
- LOW ENERGY USE

1,500 WATTS = 5,100 BTU/HOUR

1,500 SF PASSIVHAUS HEATING LOAD



5 SIMPLE PRINCIPLES
FOR UP TO 90% ENERGY SAVINGS

BUILDING SCIENCE PRINCIPLES

- 1 SOLAR ORIENTATION
- 2 HIGH INSULATION
- 3 HIGH PERFORMANCE WINDOWS
- 4 AIR TIGHT ENCLOSURE
- 5 BALANCED VENTILATION WITH HEAT RECOVERY

ENGLEWOOD DUPLEX

1st Passivehouse Certified Duplex in CO (PHI)

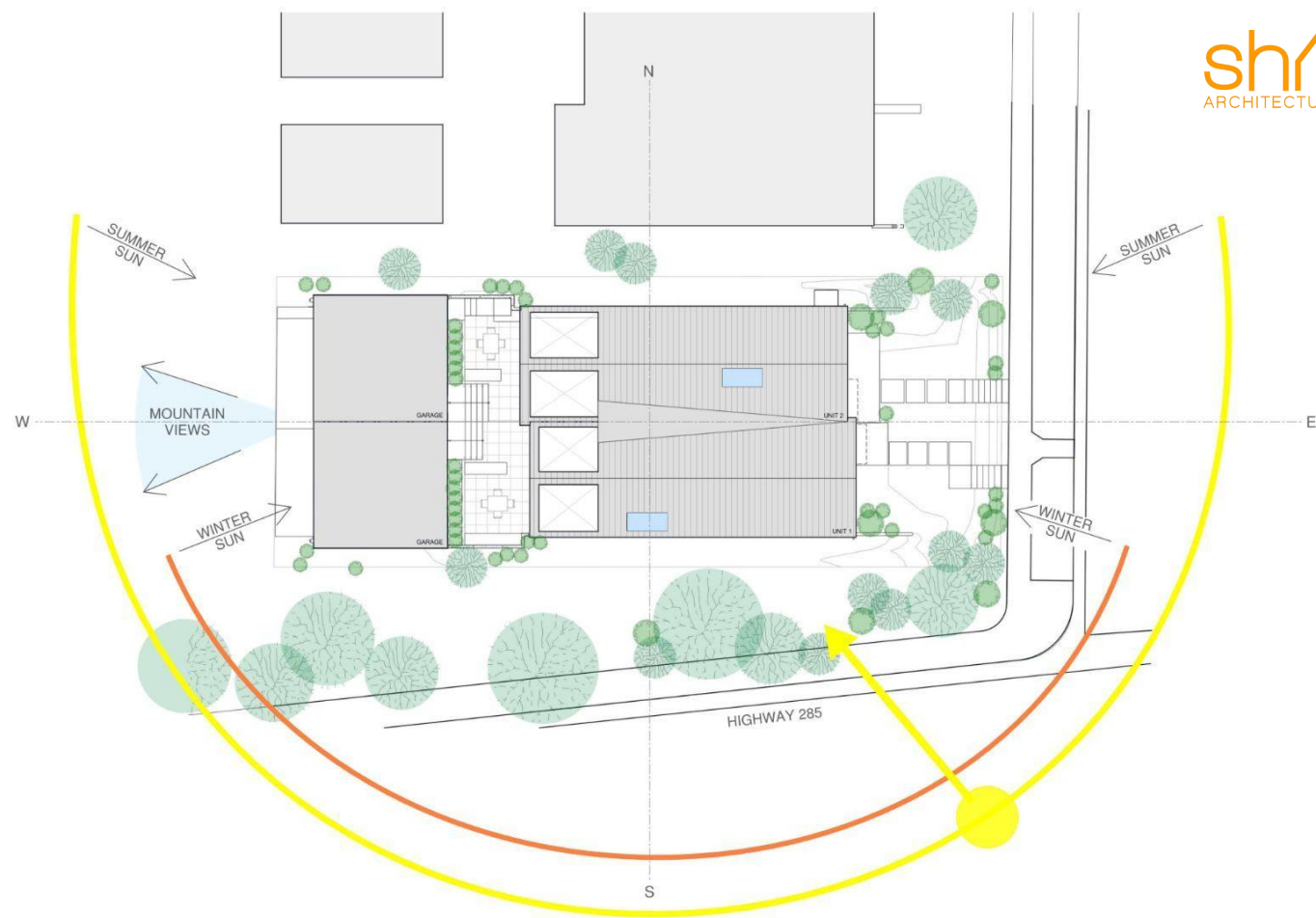


Annual Heating Demand:
12 kWh/m²/yr
[3.8 kBtu/sf/yr]

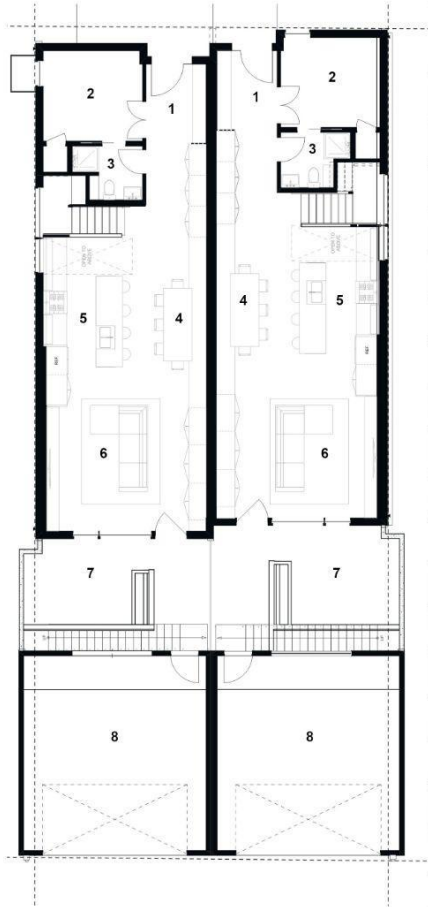
Total Energy Demand:
54 kWh/m²/yr
[17.1 kBtu/sf/yr]
28,000 kWh/yr

Solar-ready Available:
28,000 kWh/ yr





FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN

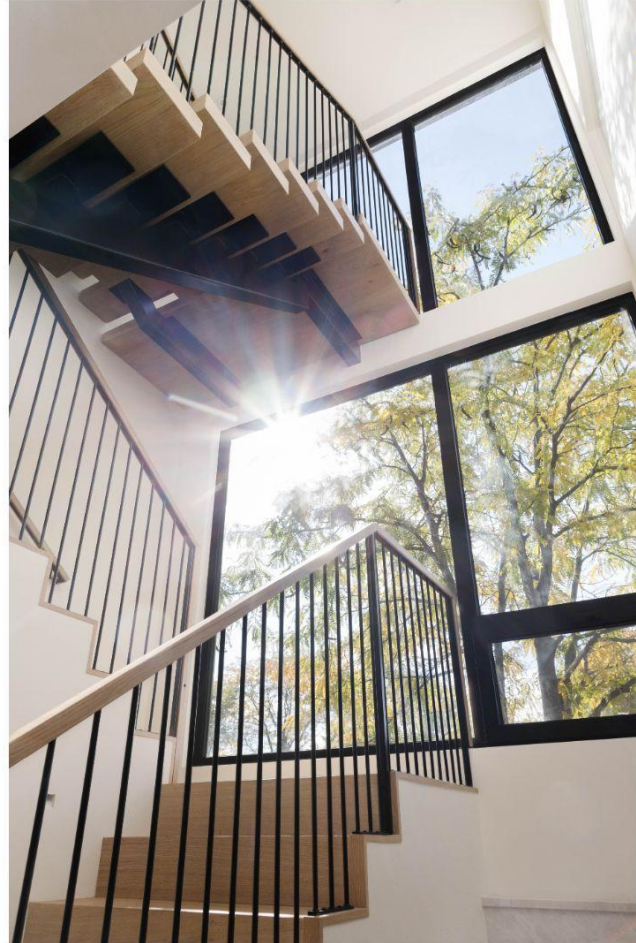


- | | | |
|-----------|-----------|----------------|
| 1 entry | 9 bed 1 | 13 bed 3 |
| 2 office | 10 bath 2 | 14 bath 4 |
| 3 bath 1 | 11 bed 2 | 15 family room |
| 4 dining | 12 bath 3 | 16 powder room |
| 5 kitchen | | 17 roof deck |
| 6 living | | |
| 7 patio | | |
| 8 garage | | |











Lombardo Residence

PHI Low Energy Building

Owners: Kevin and Casey Lombardo

Annual Heating Demand:

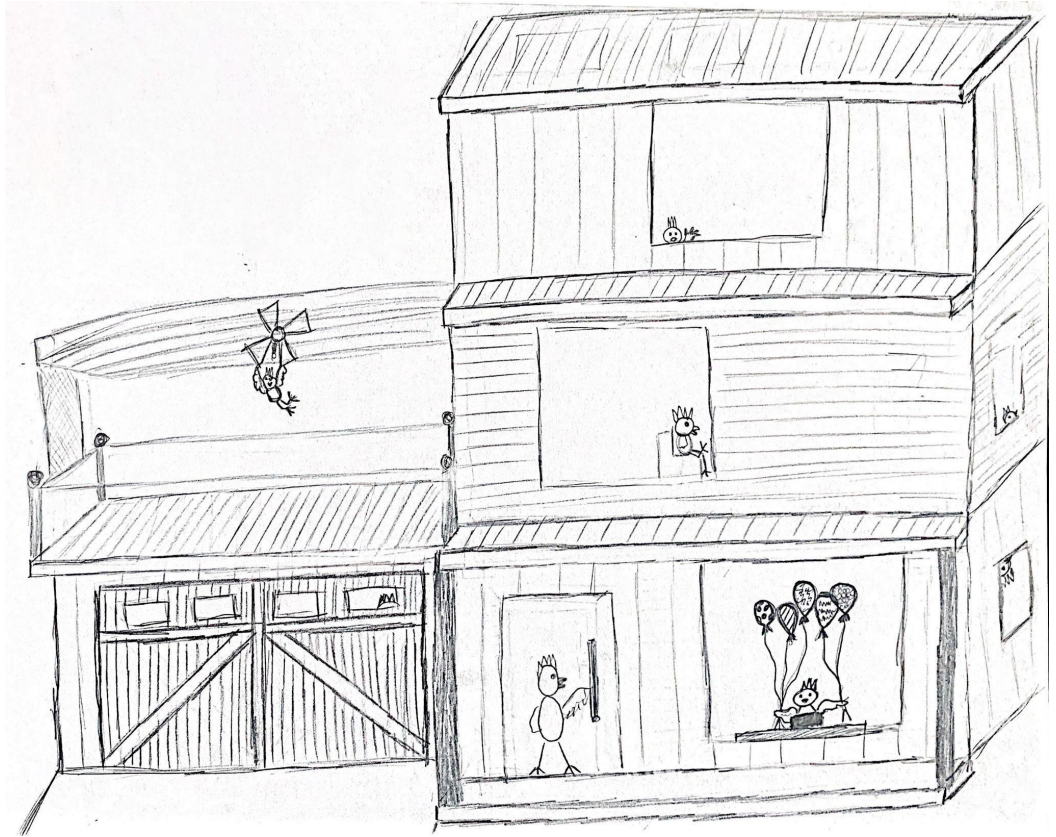
29 kWh/m²/yr
[9.2 kBtu/sf/yr]

Total Energy Demand:

7,928 kWh/yr

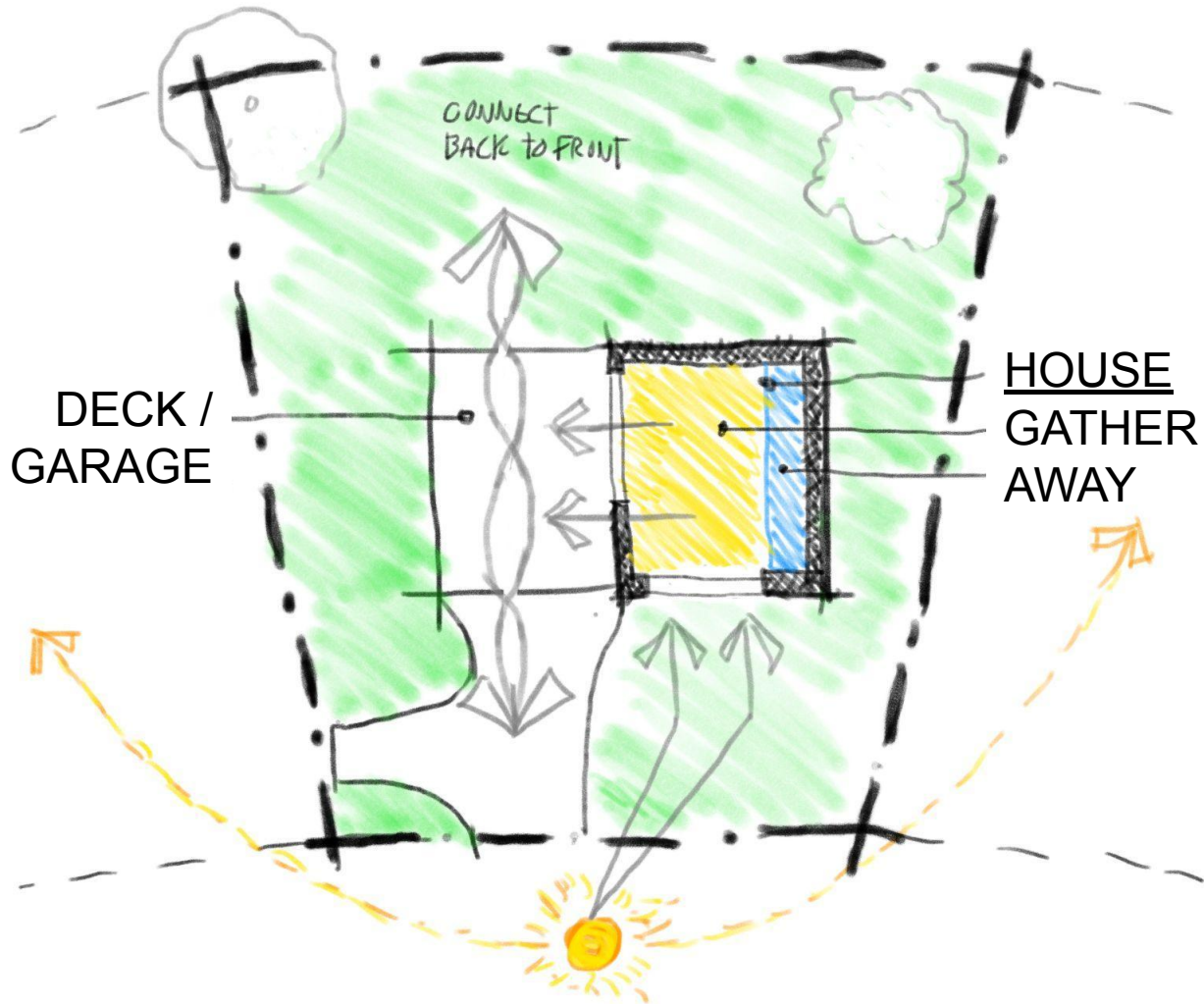
Solar-ready Available:

25,934 kWh/ yr



Site Photos / Post-Fire

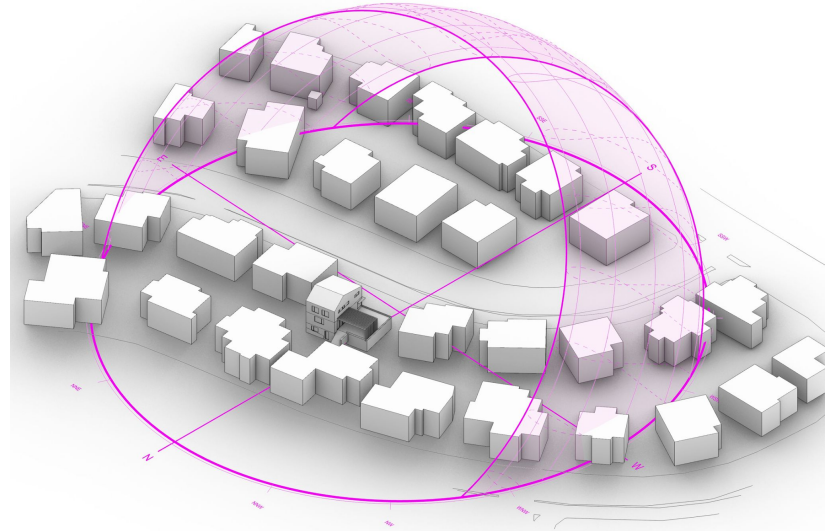
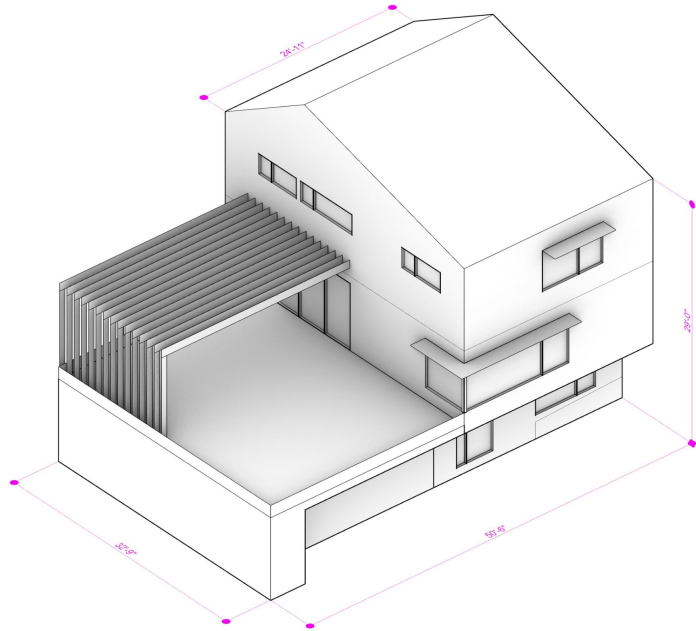




CONNECT
BACK TO FRONT

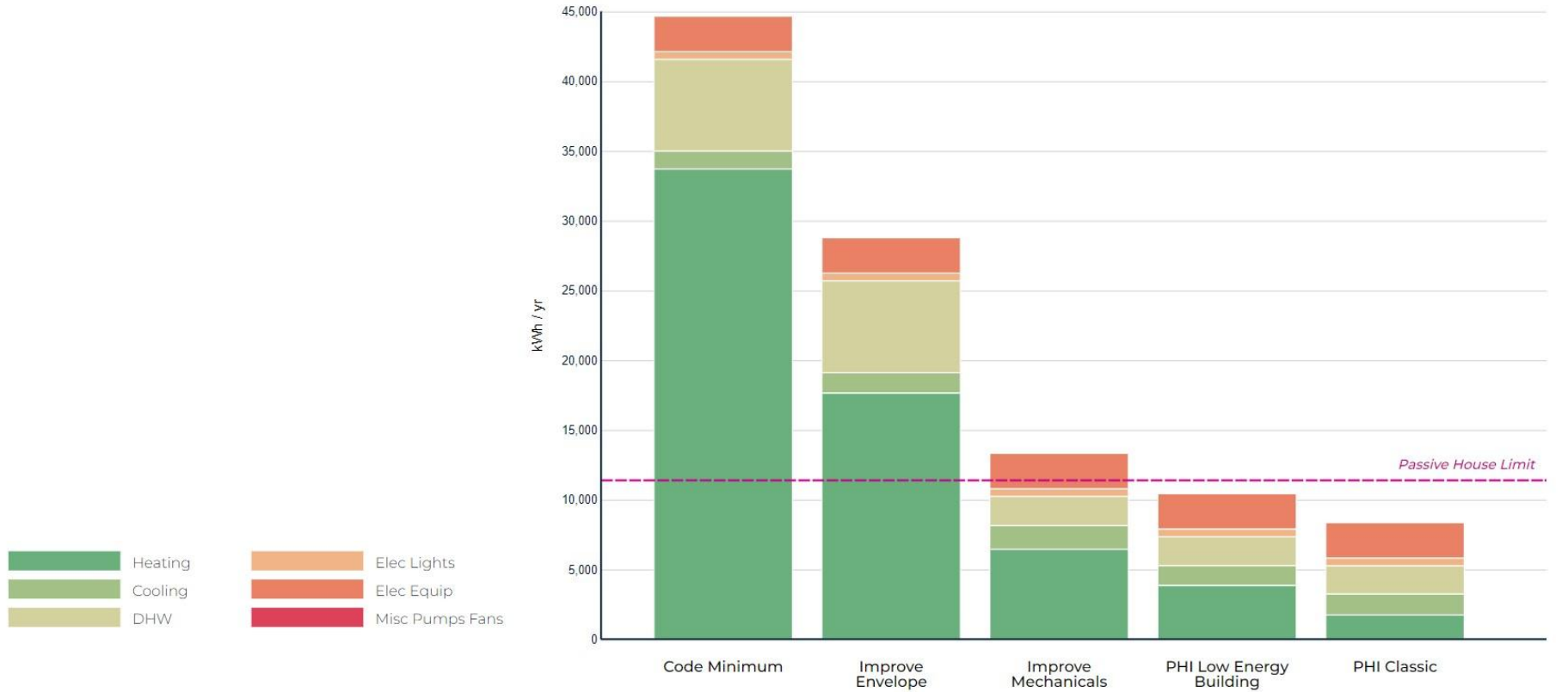
DECK /
GARAGE

HOUSE
GATHER
AWAY



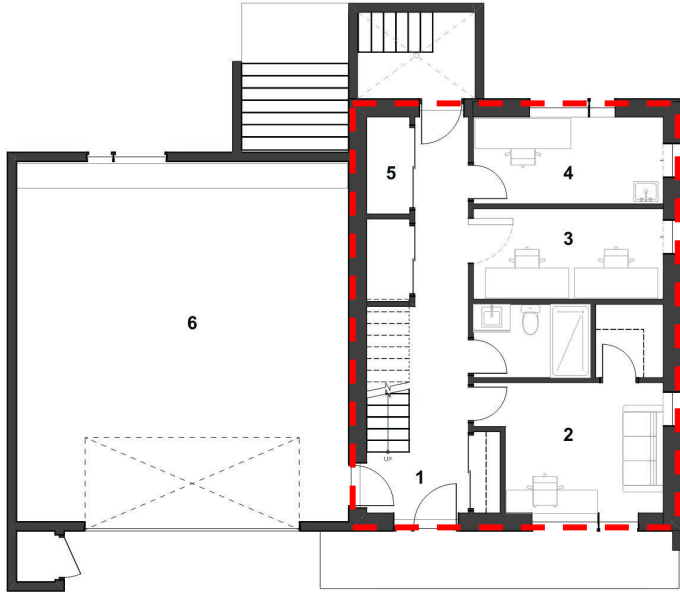
Courtesy of BldgTyp

Annual Net Source Energy Demand

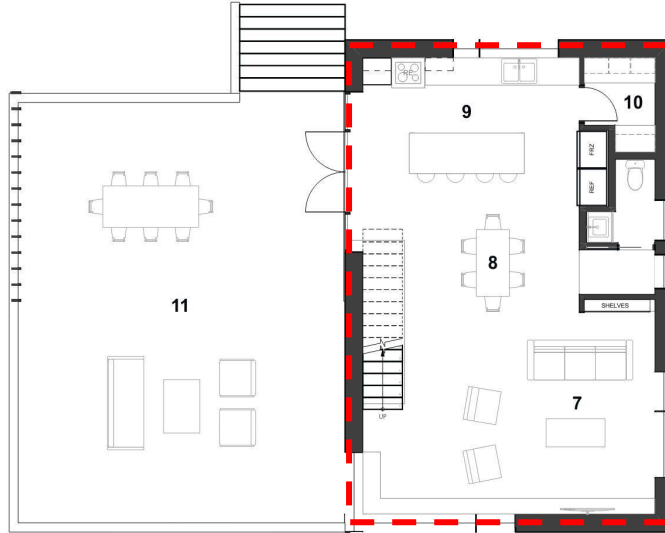


Courtesy of BldgTyp

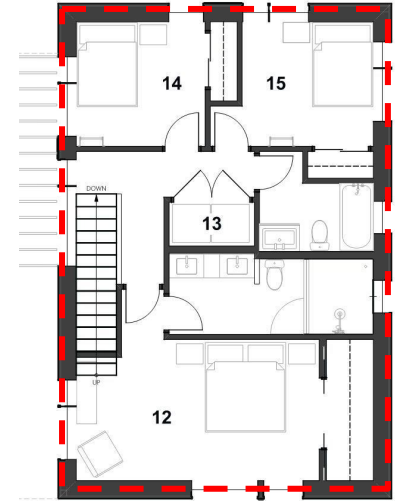
- | | | | | | |
|---|---------------------|----|-------------|----|-----------------|
| 1 | entry | 7 | living room | 12 | primary bedroom |
| 2 | guest bedroom | 8 | dining room | 13 | laundry |
| 3 | office | 9 | kitchen | 14 | kids bedroom |
| 4 | office / art studio | 10 | pantry | 15 | kids bedroom |
| 5 | mechanical storage | 11 | roof deck | 16 | shade trellis |
| 6 | garage | | | | |



LOWER LEVEL PLAN



MAIN LEVEL PLAN



UPPER LEVEL PLAN





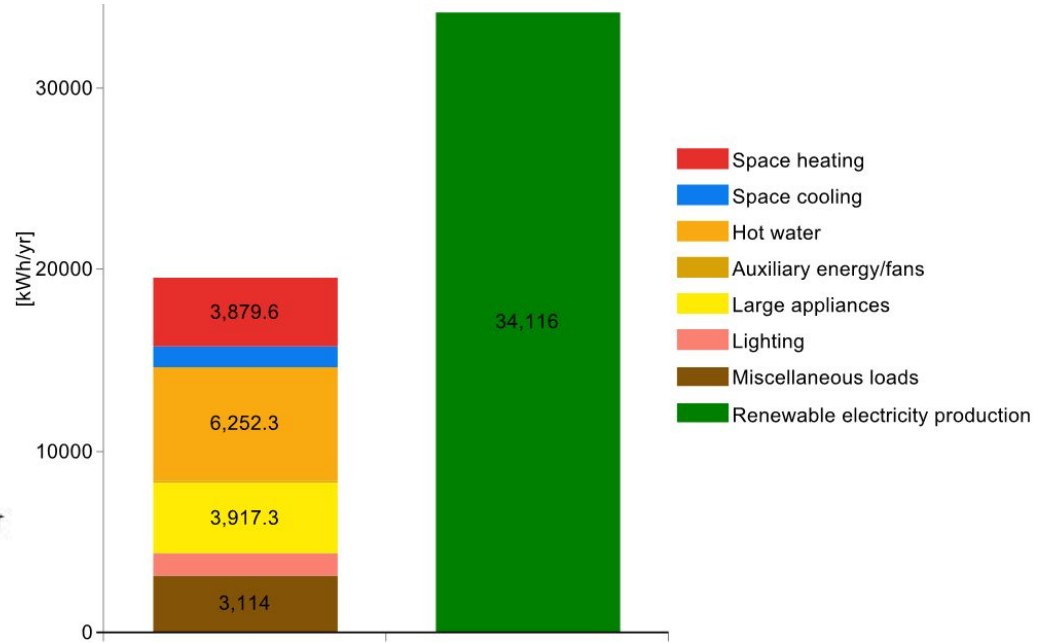
Park City Affordable Housing

DOE Net-Zero

Client: Park City



Interior conditioned floor area	2,442 ft²
Number of units	3
Occupants	10
Site energy use	49,529 kBtu/yr
Specific site energy use	20.3 kBtu/ft²yr
Site energy use	14,517 kWh/yr
Specific site energy use	5.9 kWh/ft²yr
Site energy use per person	1,451.7 kWh/Person yr
Net site energy use (with 100% renewables)	49,529 kBtu/yr
Specific net site energy use (with 100% renewables)	20.3 kBtu/ft²yr

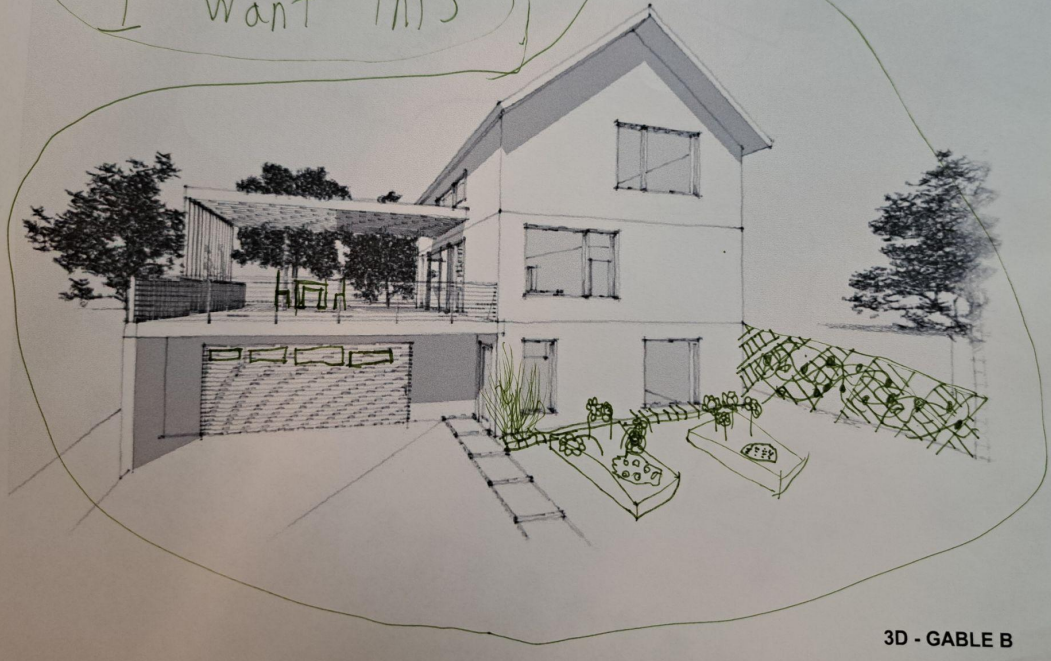




947 SUNFLOWER LN
07.20.2022

sh^hape
ARCHITECTURE

I want this



3D - GABLE B

Thank You!

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