



# PROJECT SINKHOUSE

EXPLORING NEW BEST PRACTICES IN AFFORDABLE AND SUSTAINABLE BUILDING



Wildscape  
Co.



CABINSCAPE

# W SUMMARY

## PROJECT SINKHOUSE

A pilot development of two **carbon negative**, manufactured homes funded by the FCM through GMF in partnership with Lanark County.

Go beyond the required standards and produce a "**carbon sink**", net negative manufactured home

Partner with municipalities, conduct real world testing

Existing provincial level code developments focus on energy efficiency and **operational carbon**

**Embodied carbon** is quickly becoming an important topic

Create a best in class approach to, environmentally responsible, affordable manufactured home fabrication, community design and municipal level regulatory approaches



# W OPERATIONAL CARBON

## **Efficient by nature**

Small homes means small energy consumption

## **Insulation**

Quality insulation / Avoid Thermal Bridging / Continuous Insulation

## **Energy Usage / Efficiency**

Minimize energy usage and consumption

## **Heat Recovery Units**

Minimizing heat loss through mechanical

## **Passive Solar | Green House Effect**

Using the sun to your advantage



# W EMBODIED CARBON

## Material Choices

### Choose:

Low or Negative Carbon Materials  
Highly Recycled Materials

### Avoid:

High Carbon Footprint Materials  
All New Materials  
Materials detrimental to recycling

CHALLENGE: Cost and availability

## Buy Local

Minimize transportation emissions

CHALLENGE: Local manufacturing

## Embodied Carbon Database

<https://circularecology.com/embodied-carbon-footprint-database.html>

## NRCan Study

<https://www.buildersforclimateaction.org/our-work.html>



# W DURABILITY AND QUALITY



## **Lifetime materials**

Materials that last a lifetime produce less carbon than disposable materials

## **High quality living space**

Offering a quality living space with quality materials, avoiding (VOC's)

## **Refinish and Repair**

Consider sustainable repair and refinishing of your selected materials

## URBAN SETTINGS BACKYARD DWELLINGS OR CHALLENGING PROPERTIES

Backyard/Granny Suites - Add additional housing to existing properties with a primary dwelling

Bill 23 - Up to three units on a serviced lot





## TEMPORARY HOUSING TRANSITIONAL OR SEASONAL HOUSING OPTIONS

**Portable / moveable**  
Units do not require a permanent foundation

**Small Sizes**  
From one bedroom to “bunkie” style housing

**Affordable**  
Sized based on needs and requirements

# W APPLICATIONS



## RURAL COMMUNITIES COMMUNITIES WITH SHARED SERVICES

### Starter Homes

Great for young people entering the housing market

### Singles and Couples

Small living spaces ideal for starter homes or barrier free living.

### Seasonal | Recreational

Low carbon footprint vacation or rental homes.





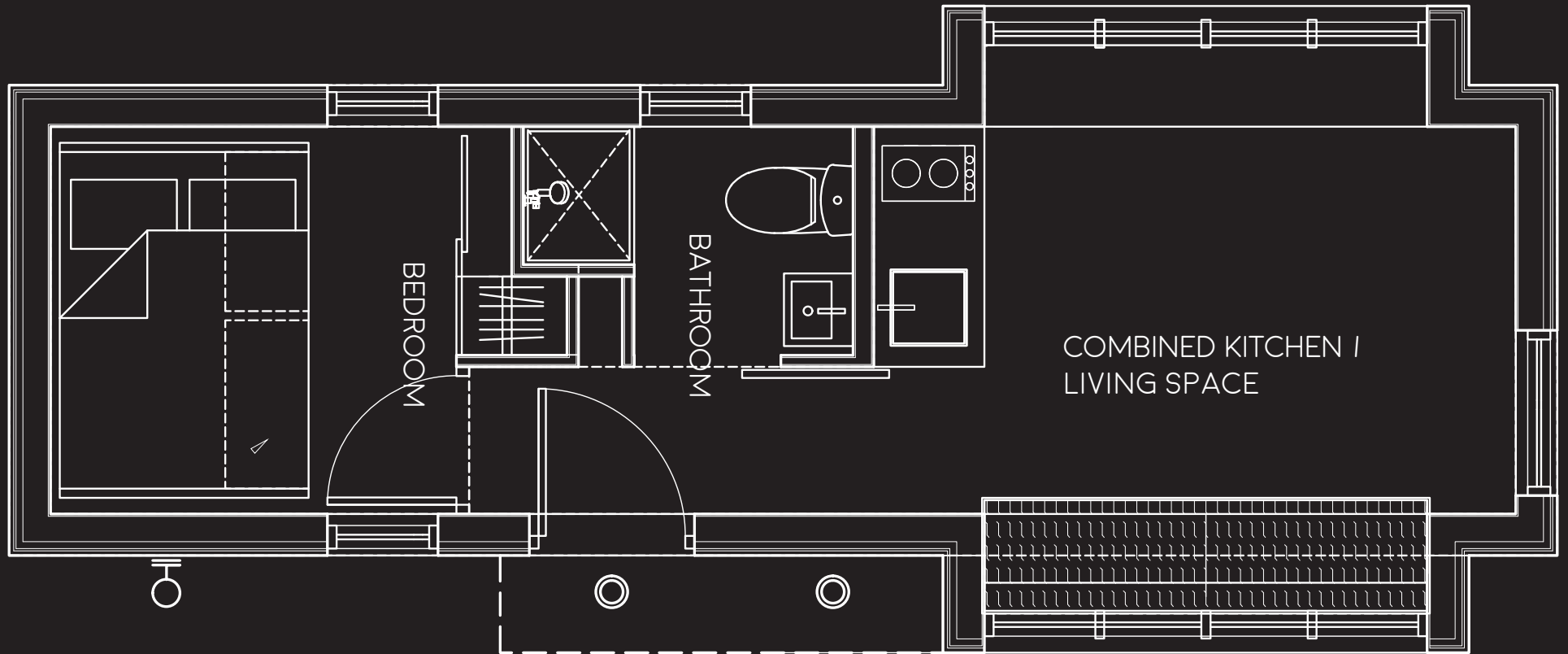
## REMOTE APPLICATIONS OFF GRID OPTIONS

Off grid and remote access location. Building can be completed in a factory, brought to remote areas and function entirely off grid.

W CEDAR - ONE BEDROOM



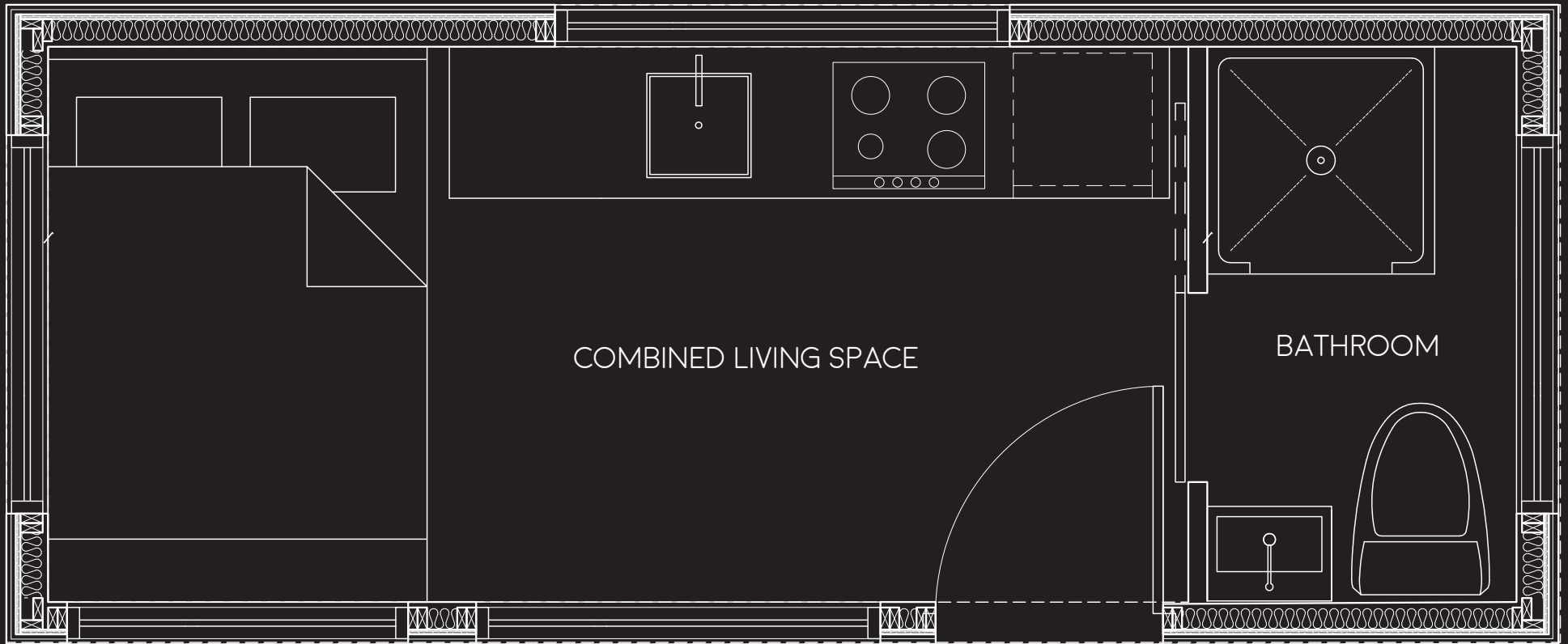
**CEDAR** | 238 SQFT



W CYPRESS - STUDIO



CYPRESS | 174 SQFT





# ROBBIE | BUNKIE WITH KITCHEN/TOILET



# W OAK - BUNKIE



# W GET IN TOUCH

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