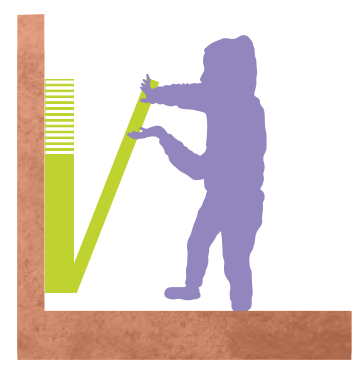
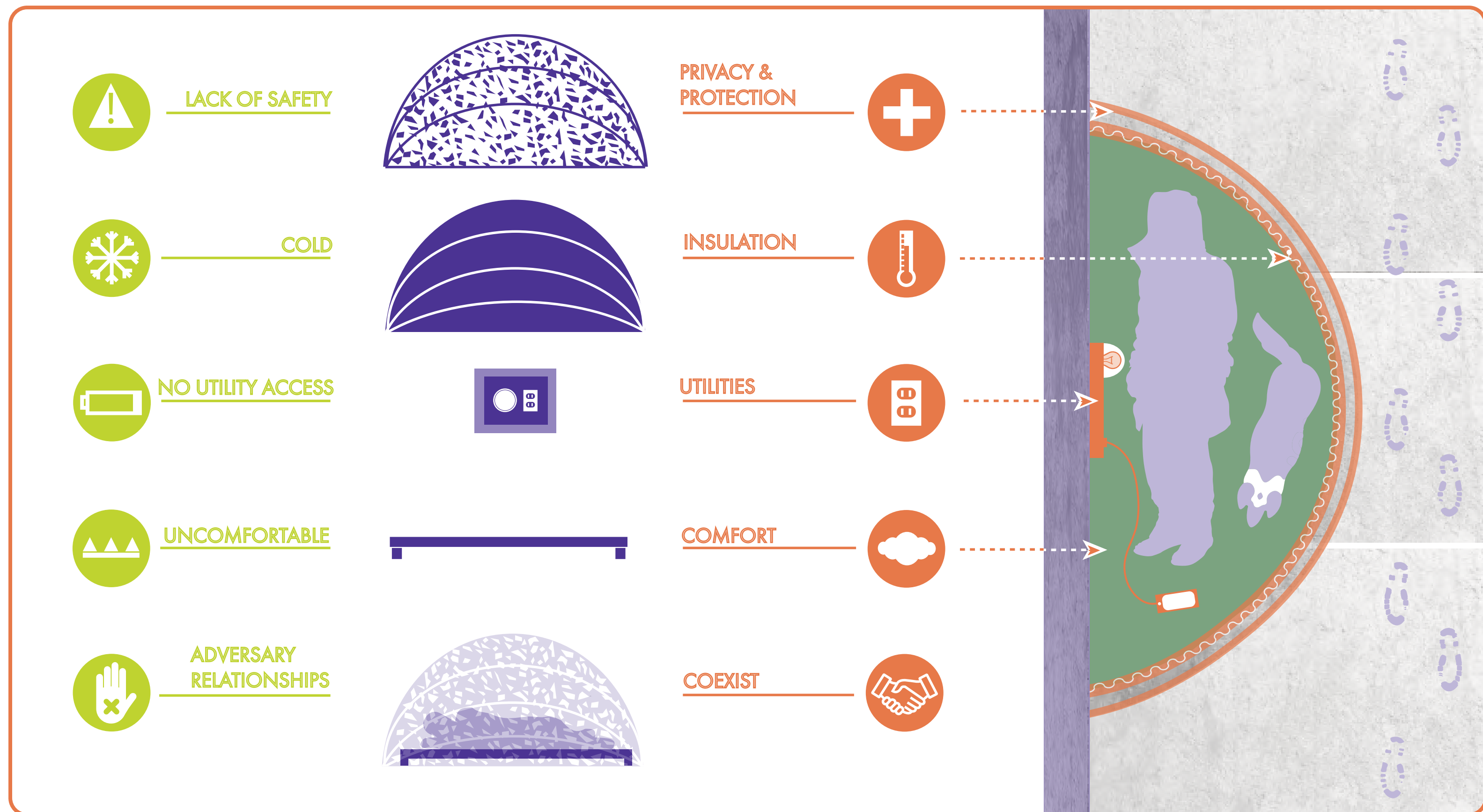


WHAT IF EXISTING WALL SPACE COULD BE ACTIVATED TO PROVIDE SHELTER FOR PEOPLE EXPERIENCING HOUSELESSNESS?

Urban Hoodie



DEPLOY CUSHION BASE



SIT



PULL DOWN PROTECTIVE LAYER

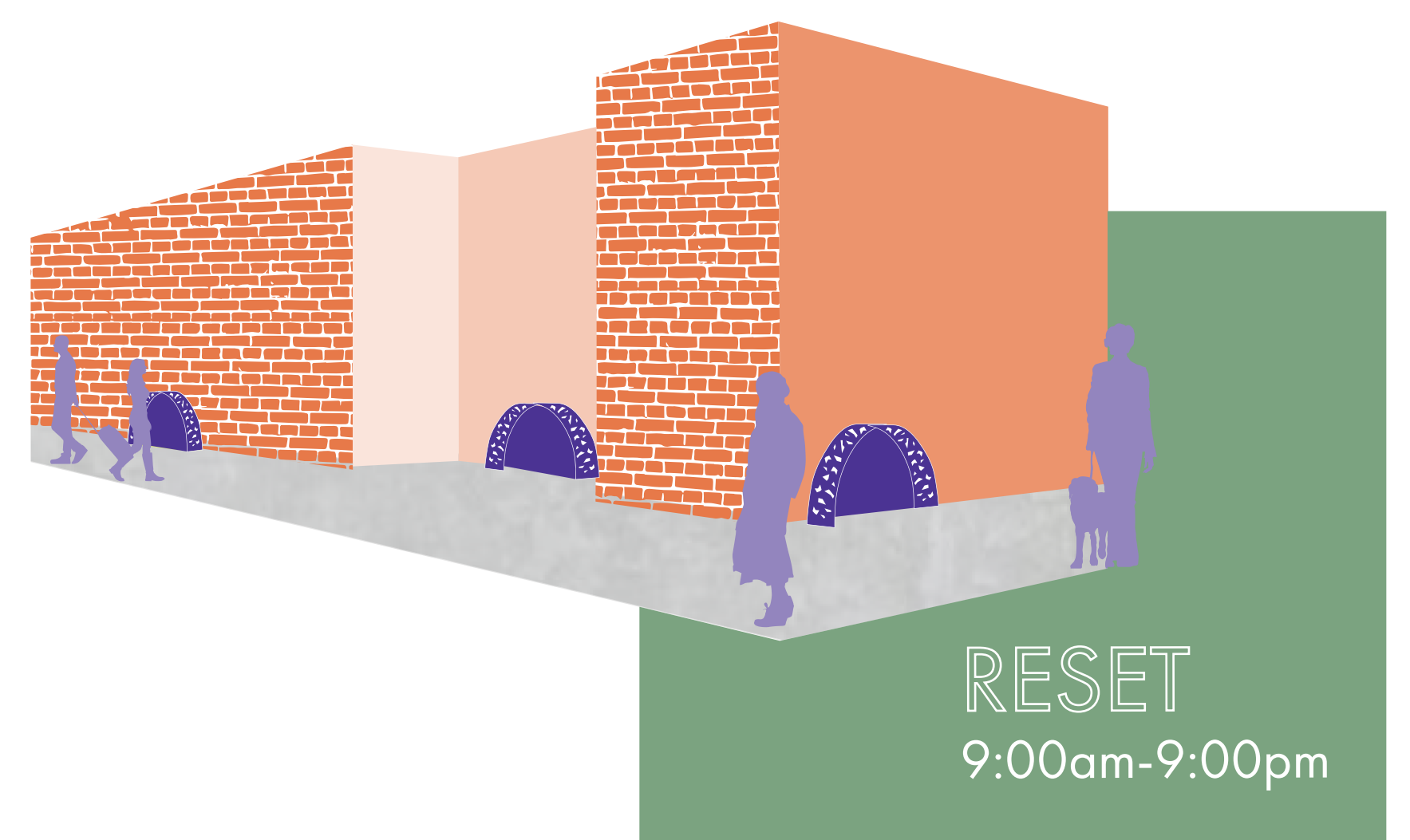


PULL DOWN INSULATION LAYER

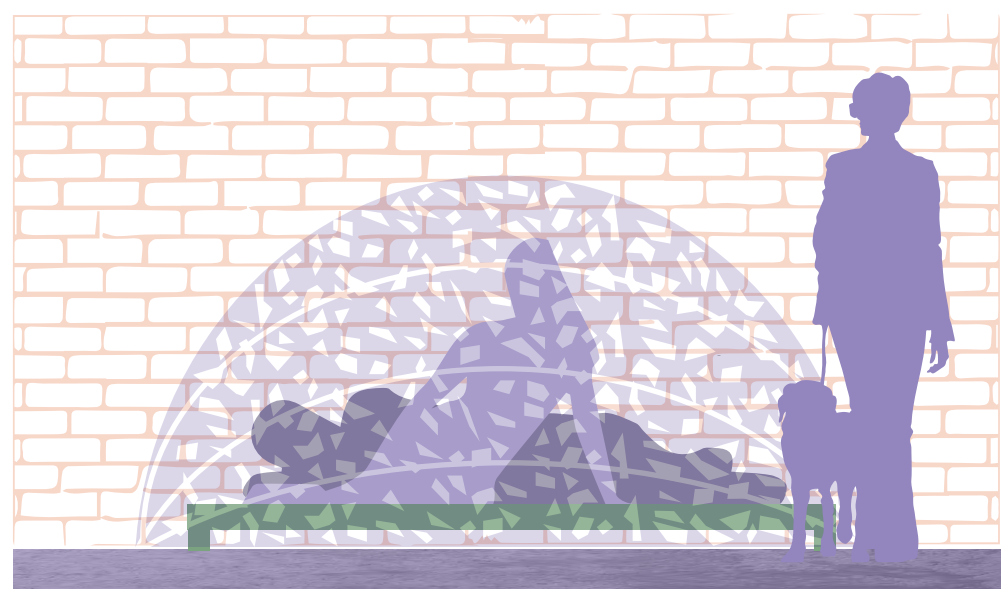


LIE DOWN

It is imperative to produce an emergency shelter that can offer temporary alleviation for these most at risk. By using existing infrastructure, and implementing policy, we can activate currently underutilized wall space and create night refuges for those in need of one. By equipping the city with safe spaces, basic amenities the Urban Hoodie can serve as an important first piece of the transition out of houselessness.



Other considerations



PARTNERS
Unit is enlarged to accommodate a pair



PERSONALIZATION
Businesses that sport a Urban Hoodie can personalize it with logos, or graphics pertaining to their line of work



EXTREME WEATHER
In cases of emergency weather the Hoodie will be available 24/7 till the weather passes



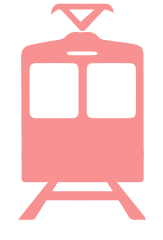
WHAT IF TRANSIT STOPS TRANSFORMED INTO MICRO SHELTERS AT NIGHT?

PORTLAND TRANSIT



LIGHT RAIL

530 MILES OF SERVICE IN PORTLAND METRO AREA
97 LIGHT RAIL STATIONS
232,800 FEET OF PLATFORM SPACE
13 NEW STOPS TO BE ADDED



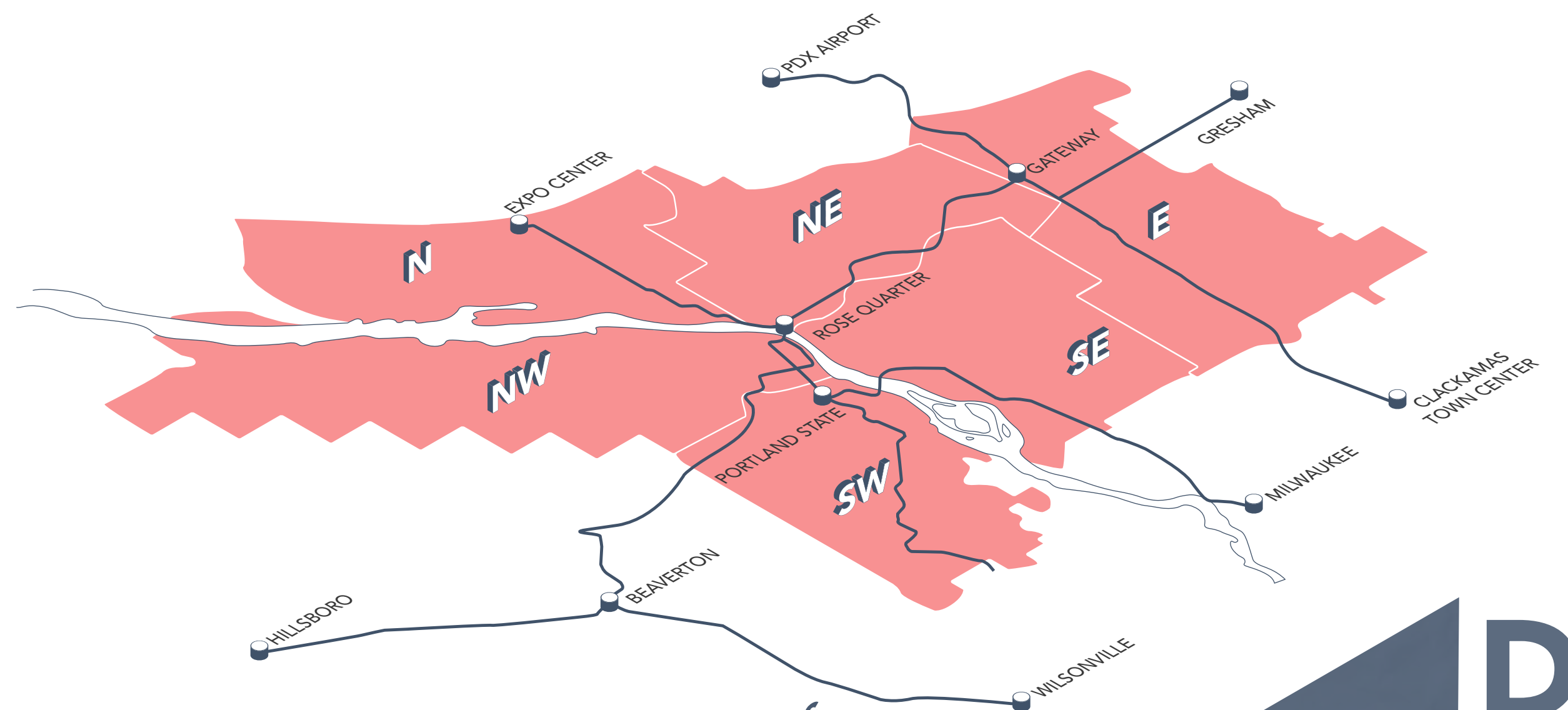
STREET CAR

16 TOTAL MILES OF TRACK
66 TOTAL STATIONS
43,560 FEET OF PLATFORM SPACE



BUS SERVICE

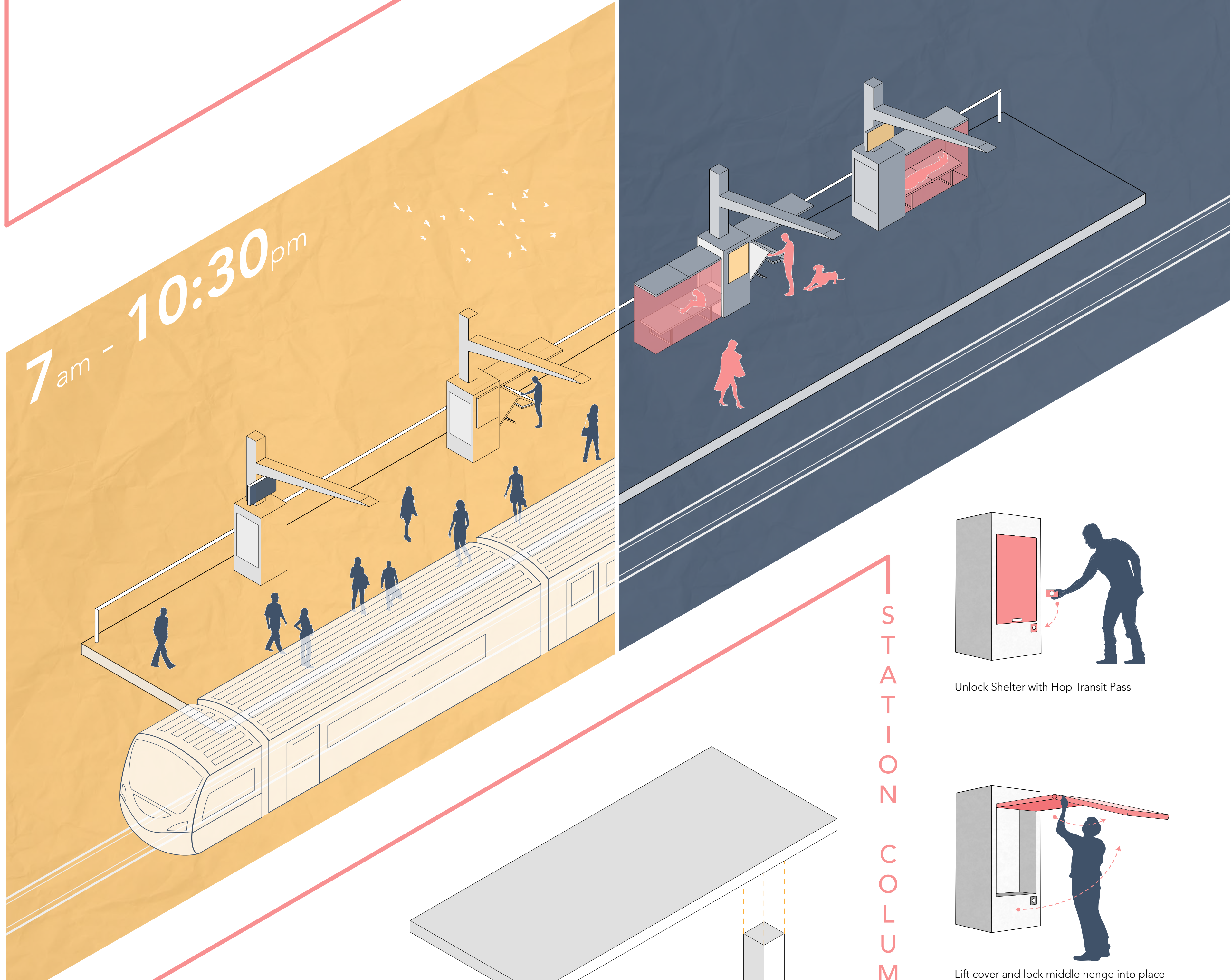
530 MILES OF SERVICE IN PORTLAND METRO AREA
6,600 TOTAL BUS STOPS



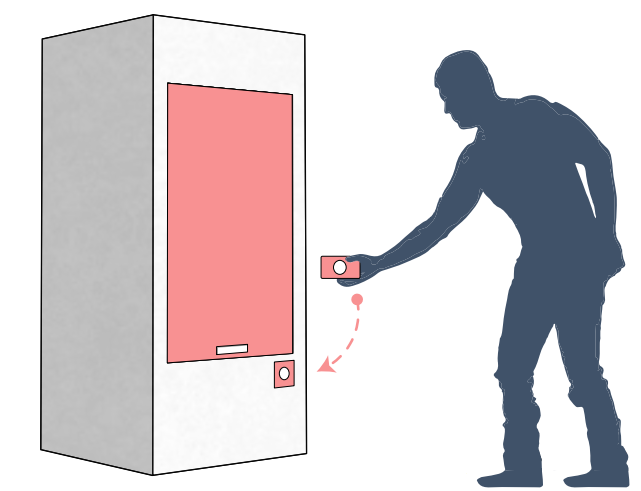
Portland Light Rail Routes

DEPLOYED

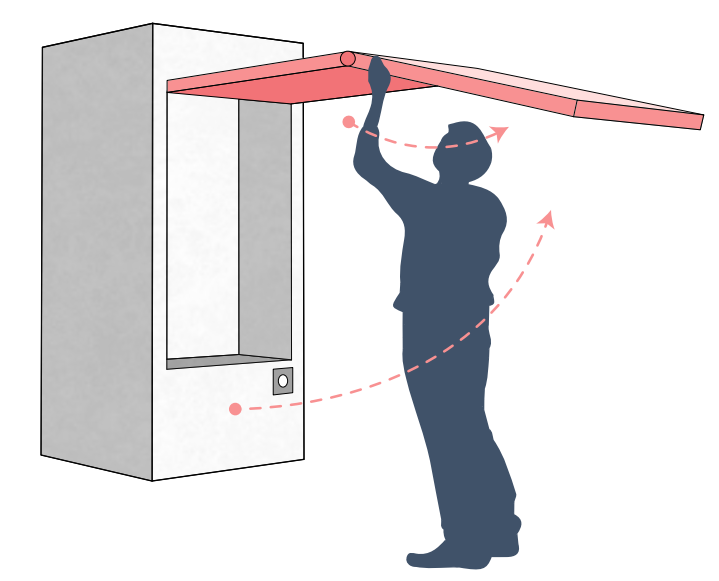
RESTORED



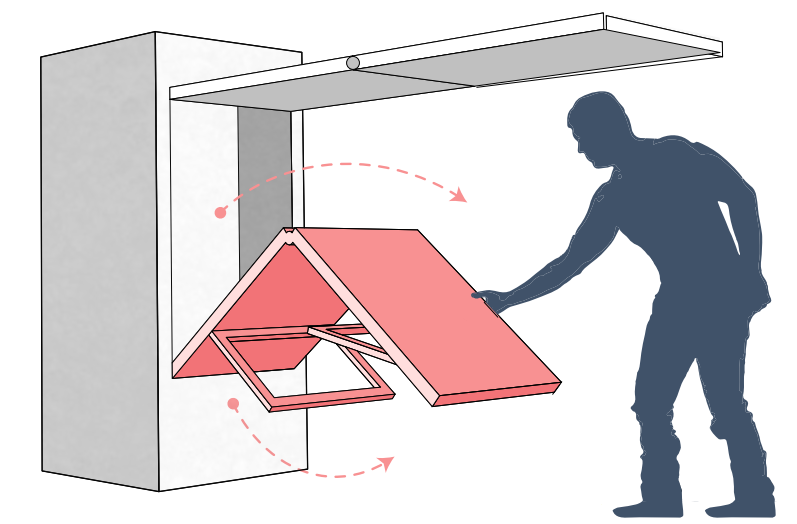
STATION COLUMN



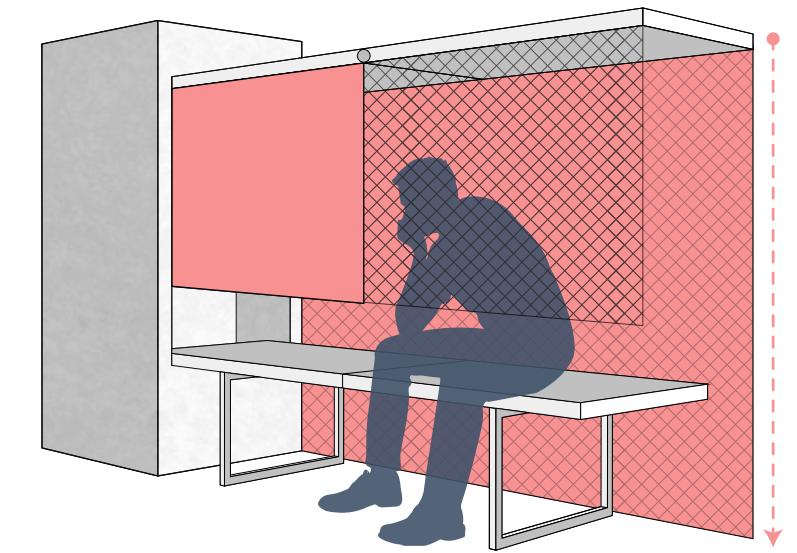
Unlock Shelter with Hop Transit Pass



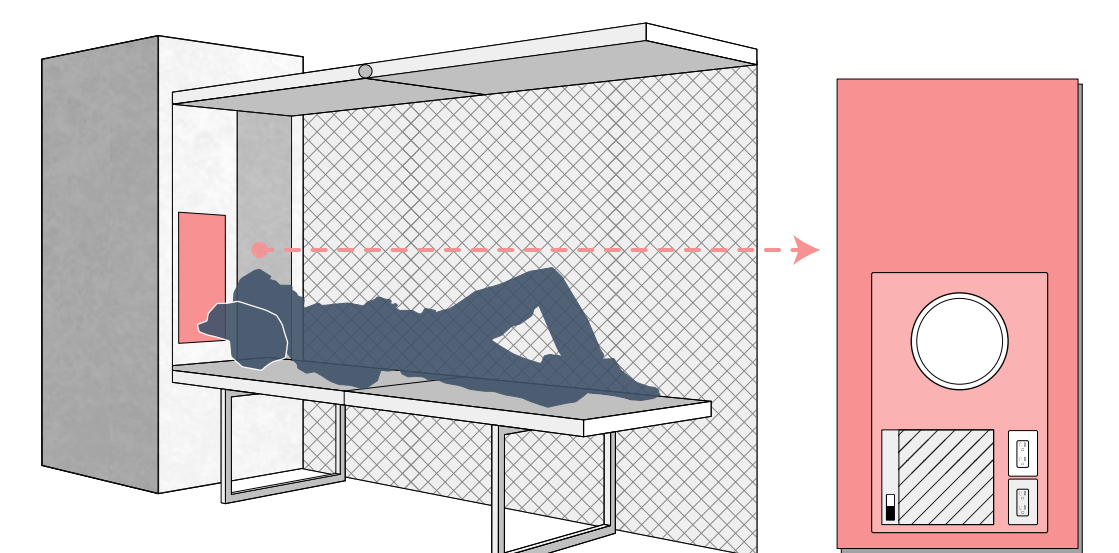
Lift cover and lock middle hinge into place



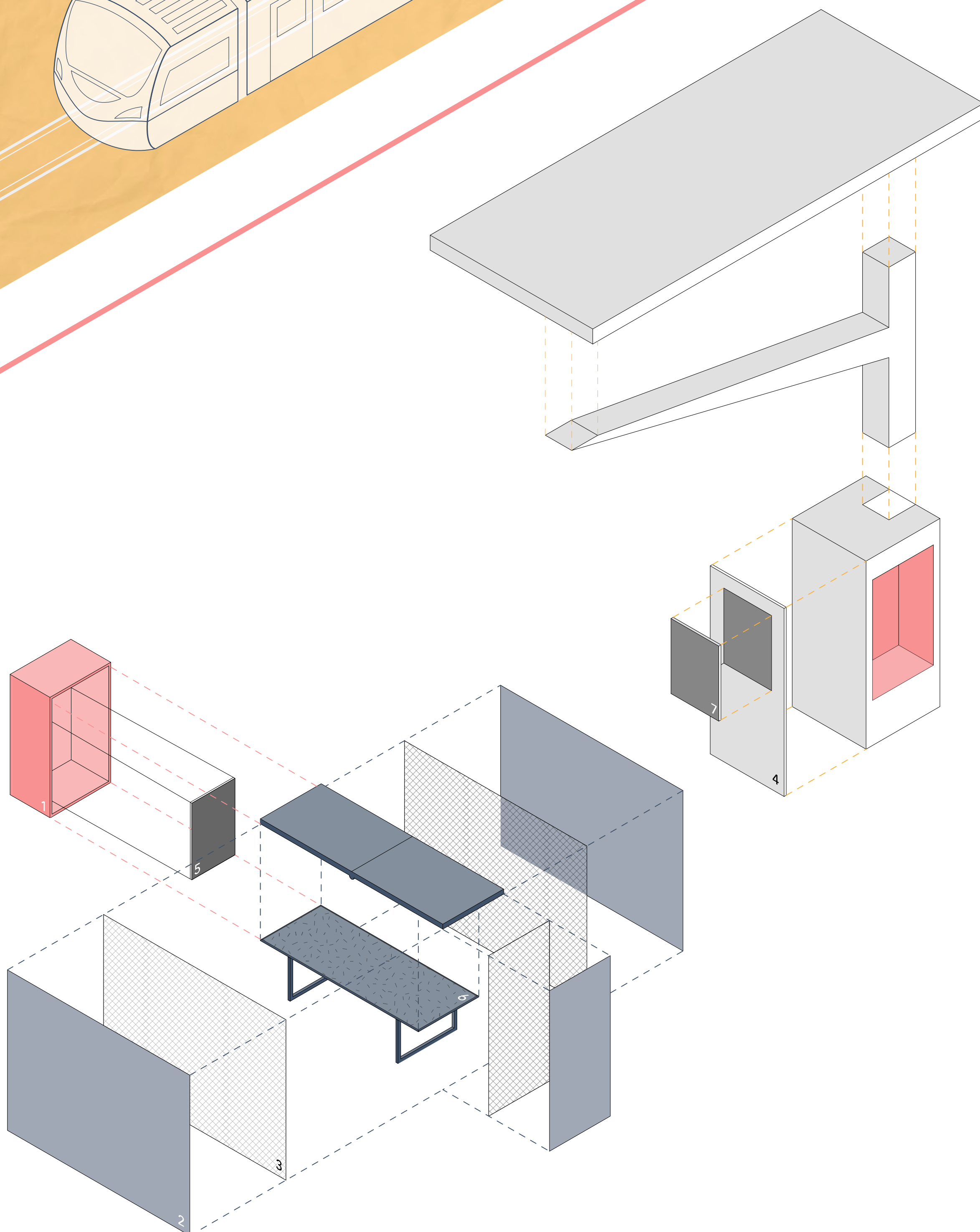
Pull out sleeping cot, secure legs and lock middle hinge



Pull down privacy screen and insulation cover



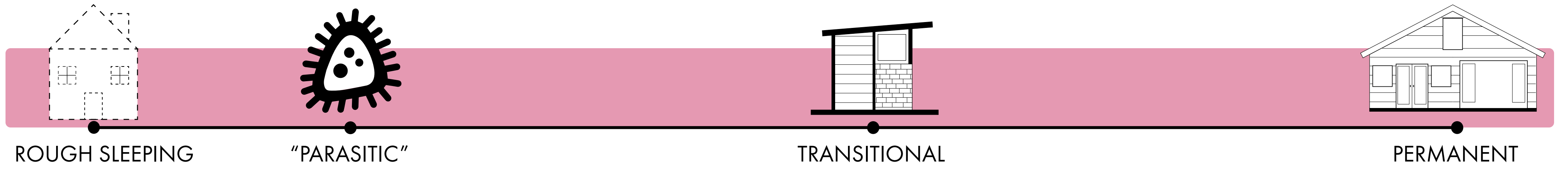
Access push-on light, sockets and a heater housed in back of micro shelter



- 1 Steel shelter vessel
- 2 Cut-Tex PRO: cut resistant fabric
- 3 Mesh fabric
- 4 Steel column shell
- 5 Utility panel with push-on light, sockets and a heater
- 6 Cushioned sleeping surface
- 7 Transit map with arrival and departure information

MICRO SHELTER

WHAT IF PARASITIC ARCHITECTURE BENEFITTED PEOPLE SLEEPING ROUGH?



People sleeping, or bedded down, in the open air (such as on the streets parks or bus shelters)

Parasitism implies a biological relationship between two bodies of harm and benefit, architectural parasitism is a relationship that doesn't contain harm or appropriation of resources from a host.

In this proposal, I create an architectural relationship that is authentically parasitic. Liberating and providing resources to the marginalized and who the state is currently unable or refusing to humanize

When deploying interventions in the public realm to help those sleeping rough. Taking over spaces that are large + open for temporary use can be co-opted and used for longer term housing encampments.

It's very unlikely for a playground to be designated by the city as "structurally unstable" after they become someone's home due to their flat and object based generation.

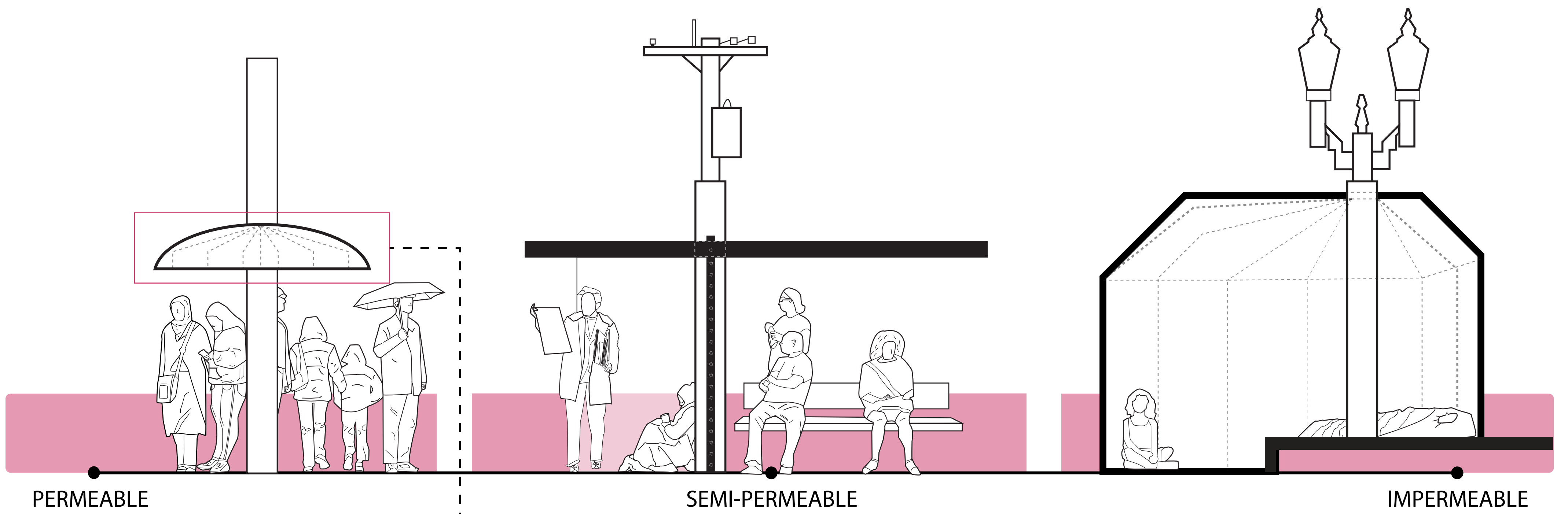
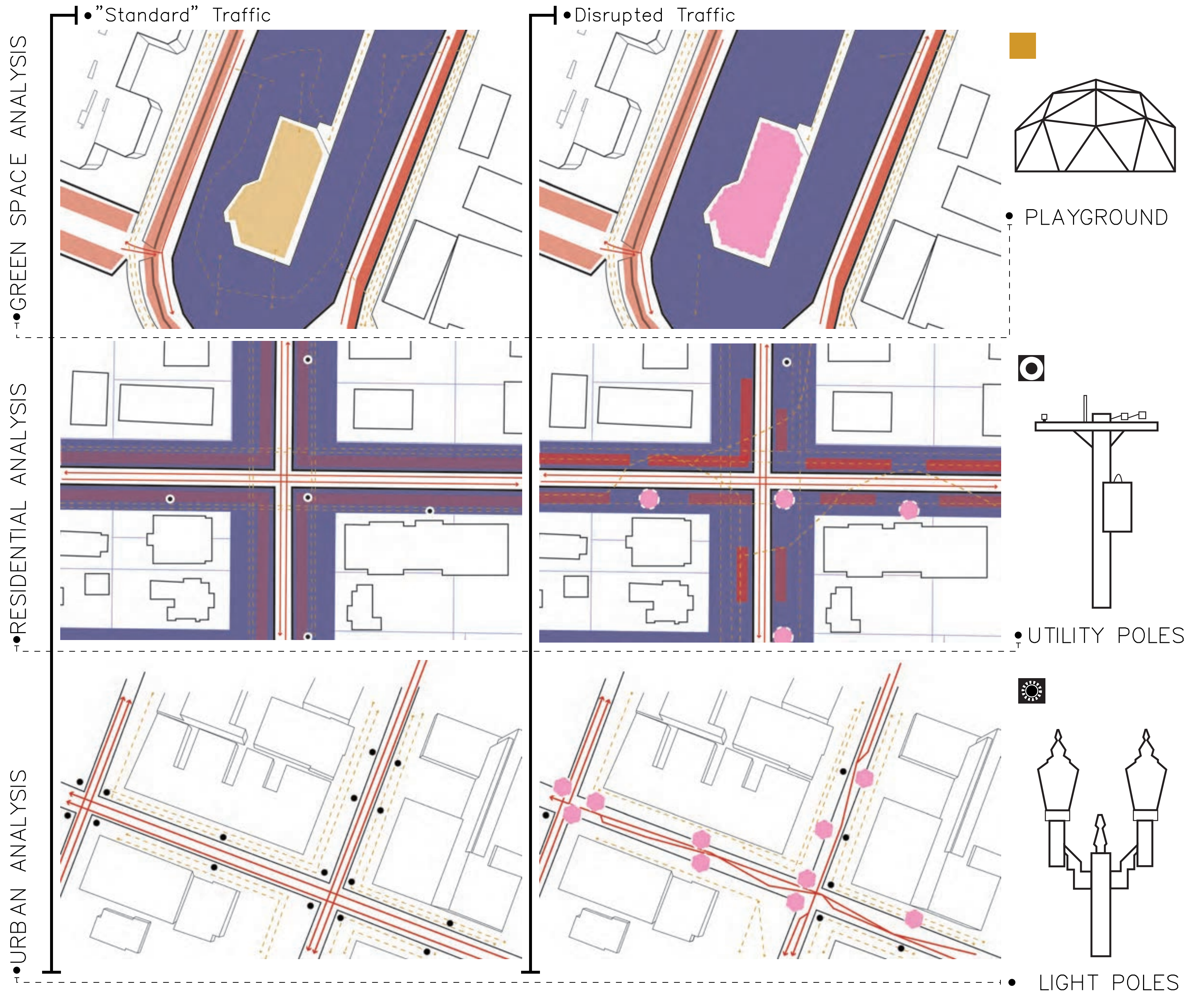
Residential neighborhoods are significantly less dense than the urban center, however, there may be faith based organizations or other non-profit work providing access to aid; including nutrition and clothing.

Co-opting utility poles will allow access to power and generate disruption to those attempting to distance themselves from people they deem "undesirable". Blocking bike lanes and parking taking up usable space for other's survival.

Additionally, this allows the community to begin to reclaim space and identity in under-served areas (e.g 122nd + Gresham)

In the city center the potential for parasitic interventions is heightened. The proposed interventions will hinder vehicle and pedestrian traffic forcing new patterns and disorientation.

Through challenging the idea of "public space" and who is allowed to utilize them, these conceptual interventions give resources directly to the marginalized. Giving power to those who are forced to utilize "temporary" spaces as a static condition to do so more easily and fully.

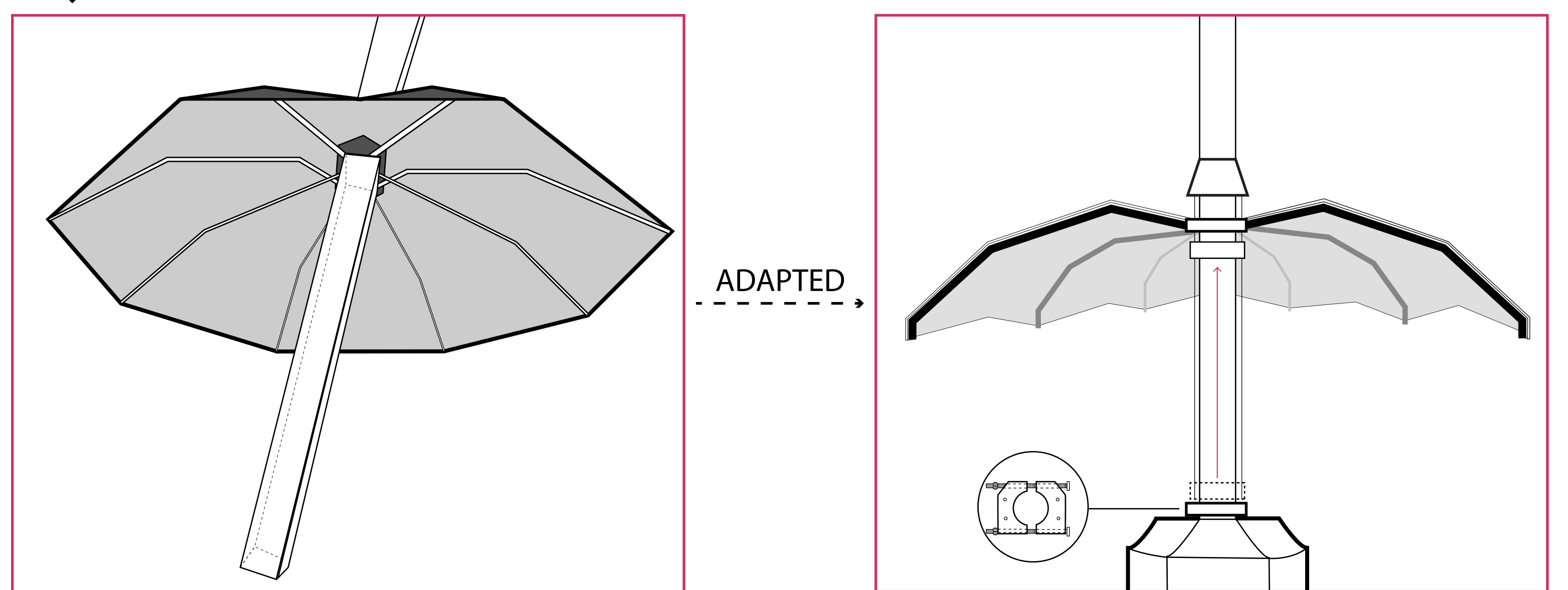


TECTONIC CONSIDERATIONS

Each of these interventions have a different tectonic consideration for affixing to the existing infrastructure of the city.

The tensile structures utilize the same method of opening and closing to essentially generate an umbrella at a higher scale. Utilizing the tectonic language of runners, top and bottom notches, stretchers and ribs.

The Permeable and Impermeable proposals share a structural system. Utilizing a hypothetically modular 3D printed top notch and bottom notch that can be affixed to poles of any size to expand the stretchers which double as the ribs to cut down on weight and thickness.



WHAT IF A NIGHT MARKET MODEL WERE APPLIED TO HOUSELESS SERVICES?

WHY NIGHT MARKETS?

Night Markets are street markets that operate after dark. They usually offer eating, shopping, and entertainment. The event is made up of a collection of vendors and services, can be held in an open-air or indoor venue, and offer a safe gathering space at night to the community. Some markets are held in residential areas, providing nighttime gathering spaces outside of urban cores, while some remain in city centers. The night market's ability to organize a group of diverse vendors in a way that is nomadic, efficient, and inviting makes the night market a compelling model to explore towards providing services to unhoused communities.

TIME



Many services are open only during standard weekday business hours. Outside of these hours, spaces to safely occupy become incredibly limited.

CRIMINALIZATION

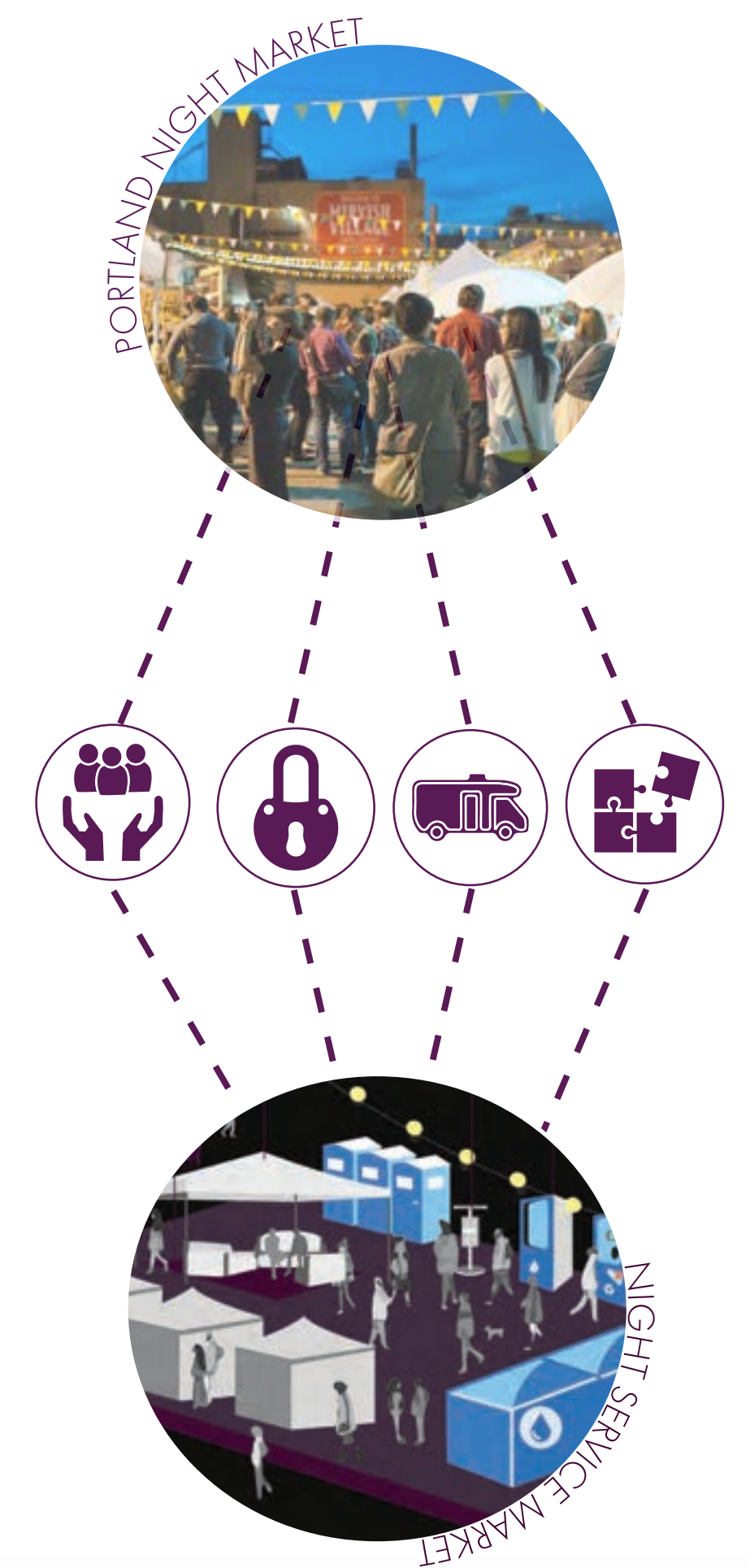


Unhoused folks are highly susceptible to being criminalized simply for existing in public spaces, indoors and outdoors.

MONEY



After most public spaces and services have closed for the night, many of the remaining options require money (ie, coffee shops, diners, laundromats).



PROPOSAL



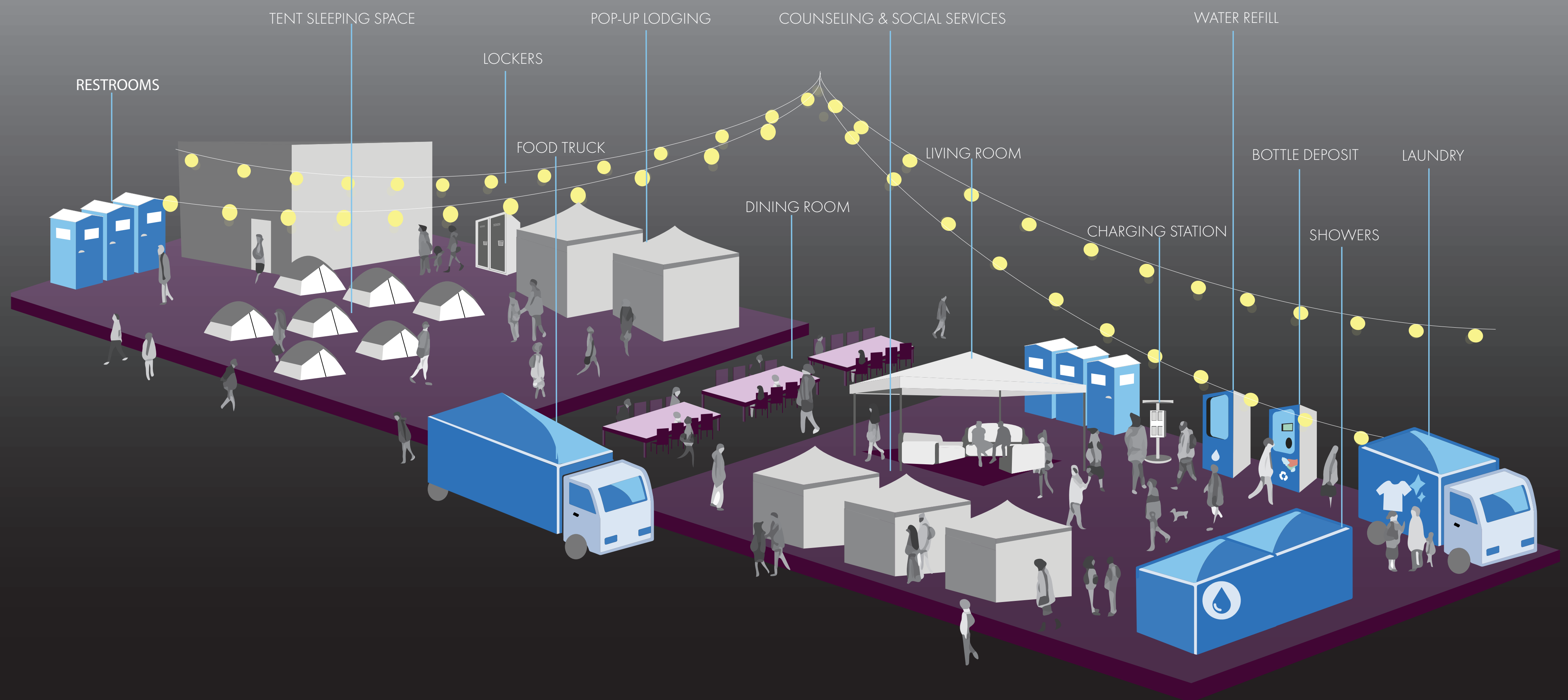
MARKET OPENS WITH SERVICES



POST-DINNER REST & GATHERING

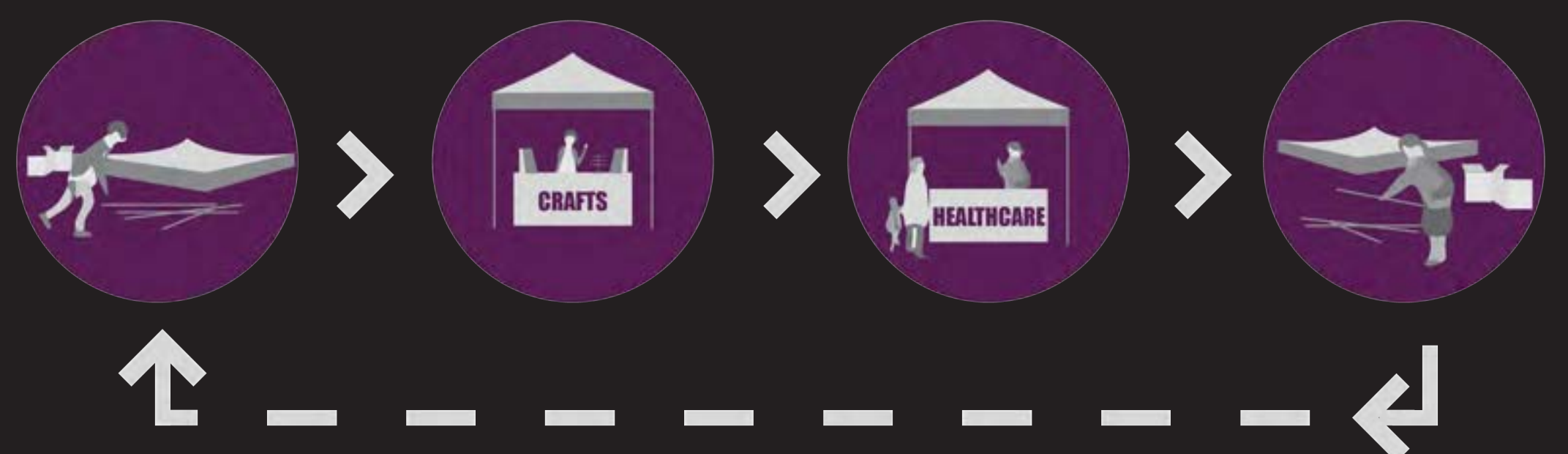


QUIET GATHERING & SLEEPING



Market Implementation

Pre-existing markets and fairs in Portland will be given the option to leave behind their infrastructure (ie, canopies, electricity hook-ups, port-a-potties, etc.) for several days after their event to host the "Night Service Market" in exchange for benefits from the city such as: expedited permits, decreased event fees, etc. The breakdown and return of equipment can then be done by the service market crew and returned after the event.



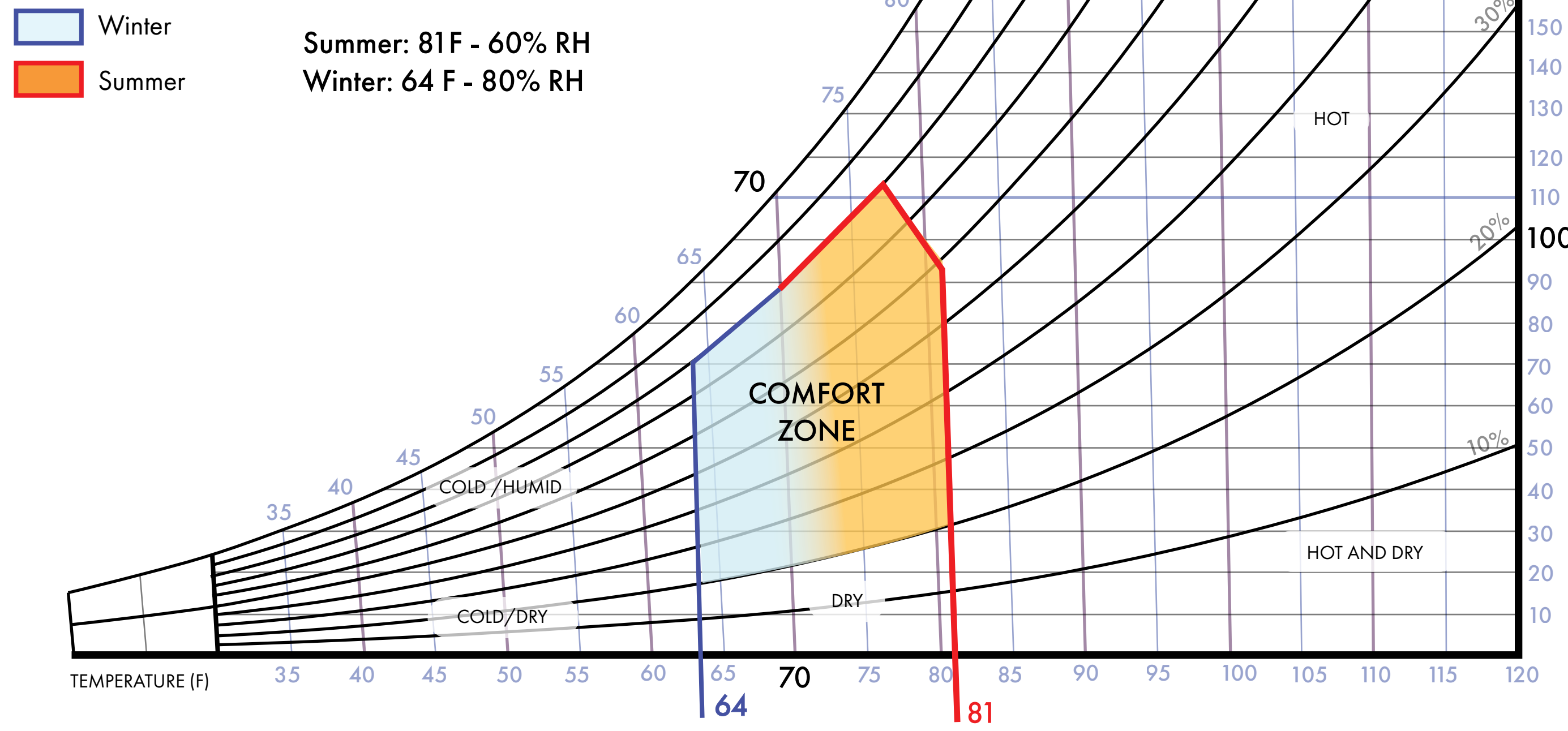
WHAT IF VILLAGES COULD ADAPT TO EXTREME WEATHER ?

Comfortable Temperature

Humans aren't really good with fluctuating temperature, our range of comfort and habitable climate is quite small. Adding to this, extreme temperature are only livable for a short period of time, continuous exposure to high or low temperature can be very harmful even deadly. Something houseless people are more at risk to experience as cold and hot seasons sets in.

Psychometric chart

Our comfort not only depends on temperature but also humidity. You can see that our comfort zone generally ranges between 80% and 20% of RH (Relative Humidity). 100% feel very humid and 0% very dry. During summer for example, our tolerance to humidity lowers as temperature rises, so the relative temperature drops to 60%.



Hypothermia : avg 700 death per year in the U.S for houseless

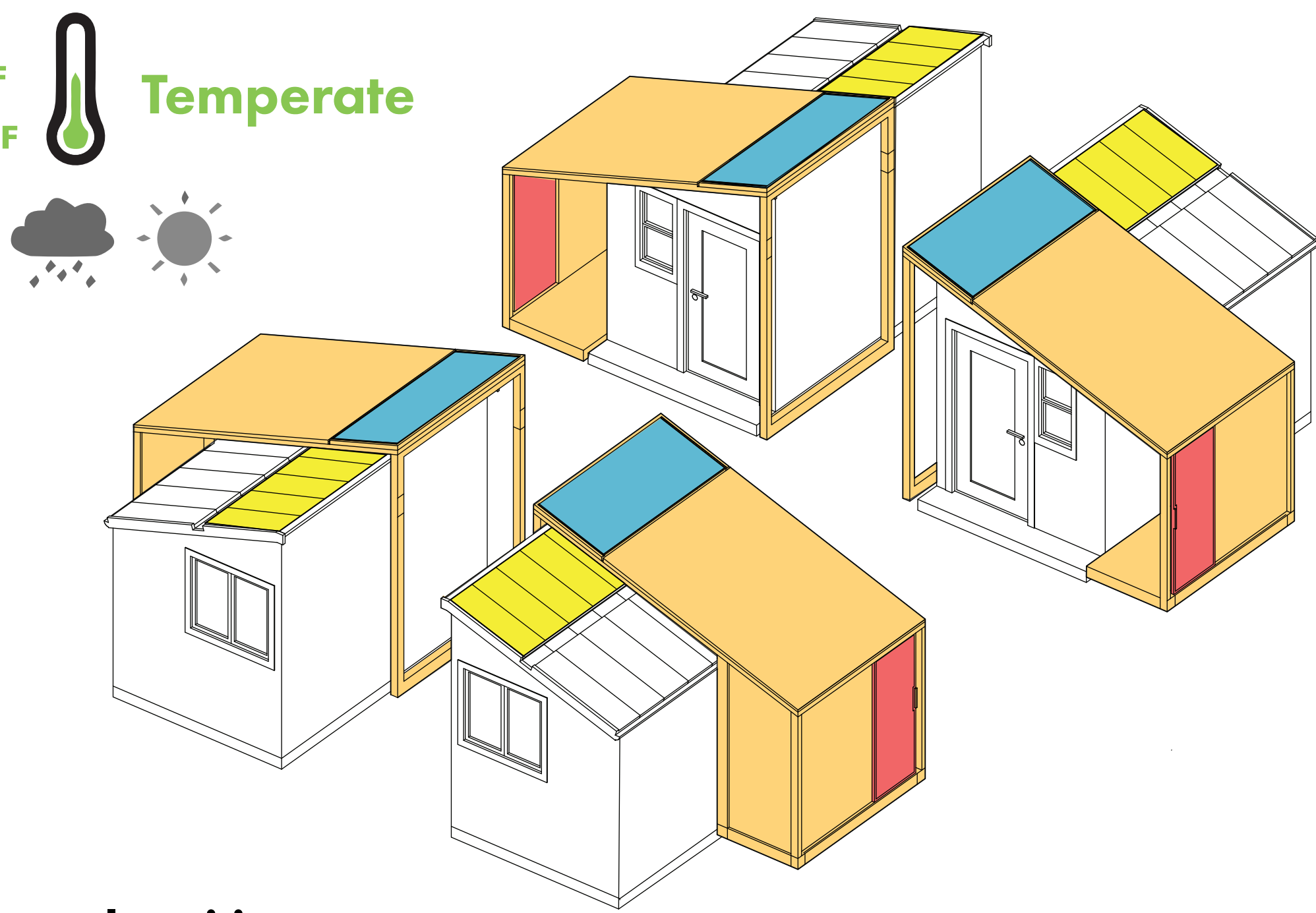
Our body internal temperature goes into hypothermia when it goes below 95F. We go into shock around 103F.

Design Proposition

As the weather fluctuate, walking from a pod to the Village amenities or using gathering areas becomes more of a challenge. With this modular "shell", we could create spaces that can adapt to all weather throughout the year.

Movable Patio Shell
Placed on a rail system and wheel, this structure can move to accommodate different use and protection against the weather

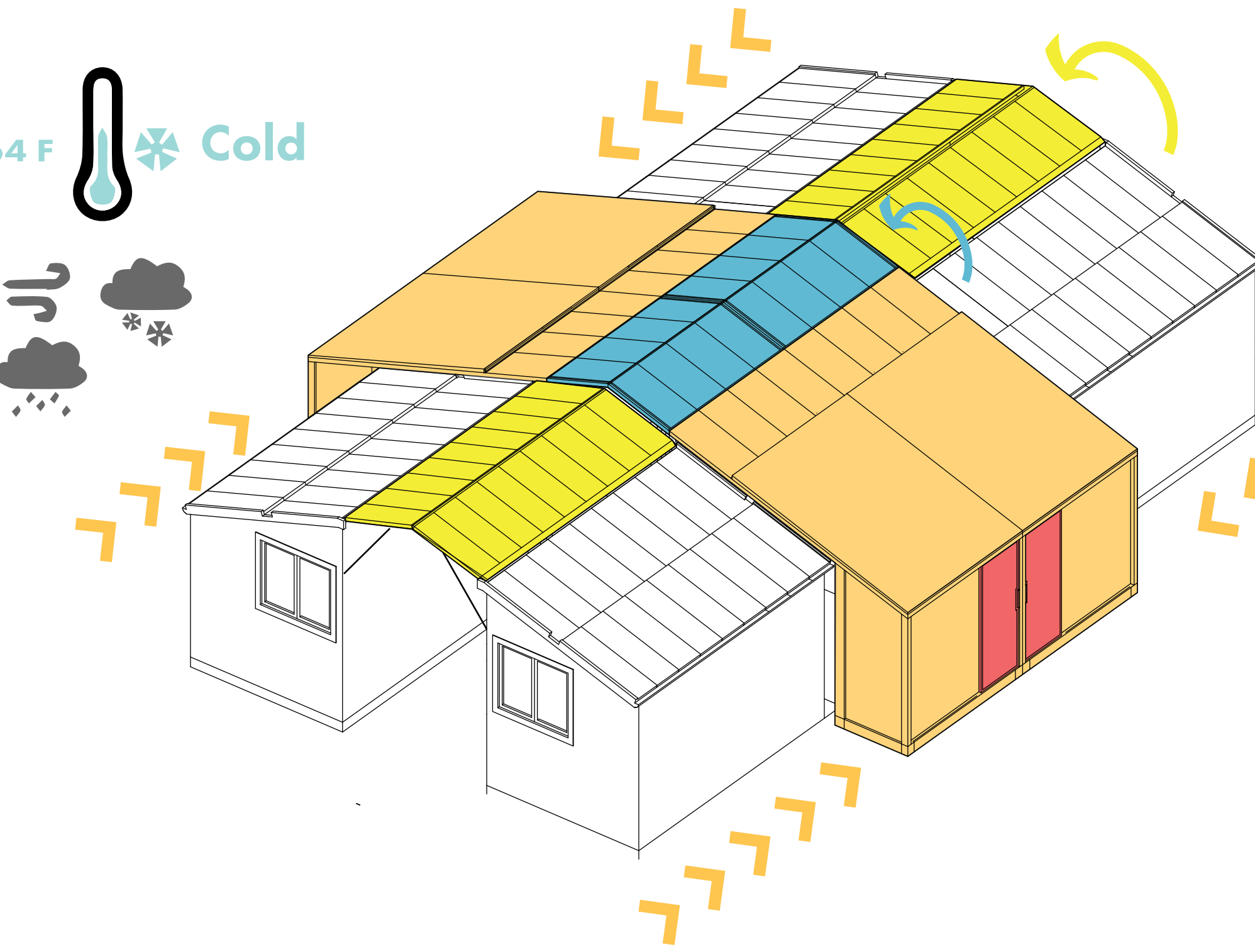
81 F
64 F
Temperate



Normal position:

- Patio area can be put away.
- Storage area can be used fully

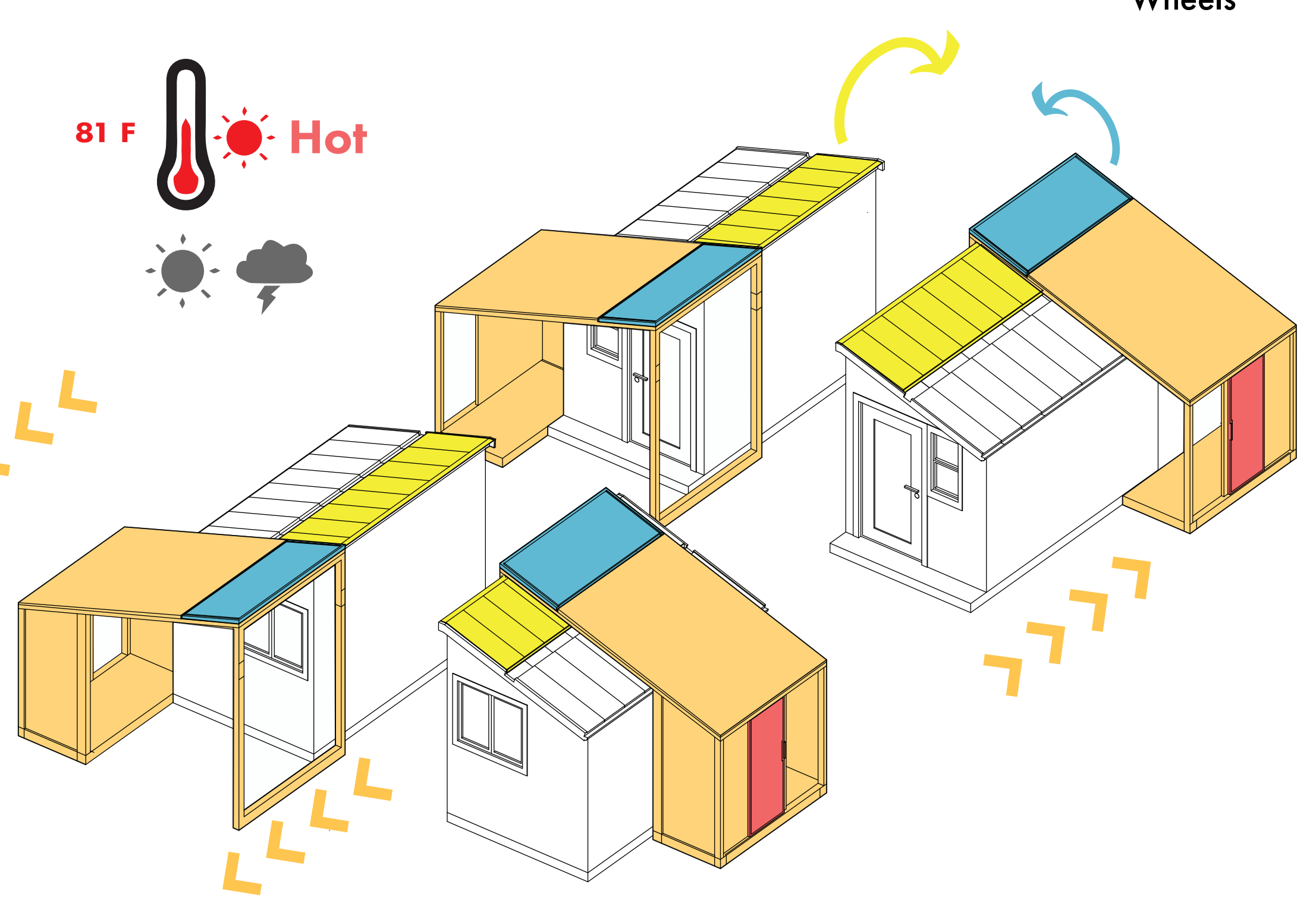
64 F
Cold



Locked position:

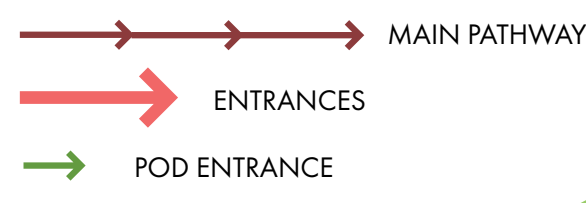
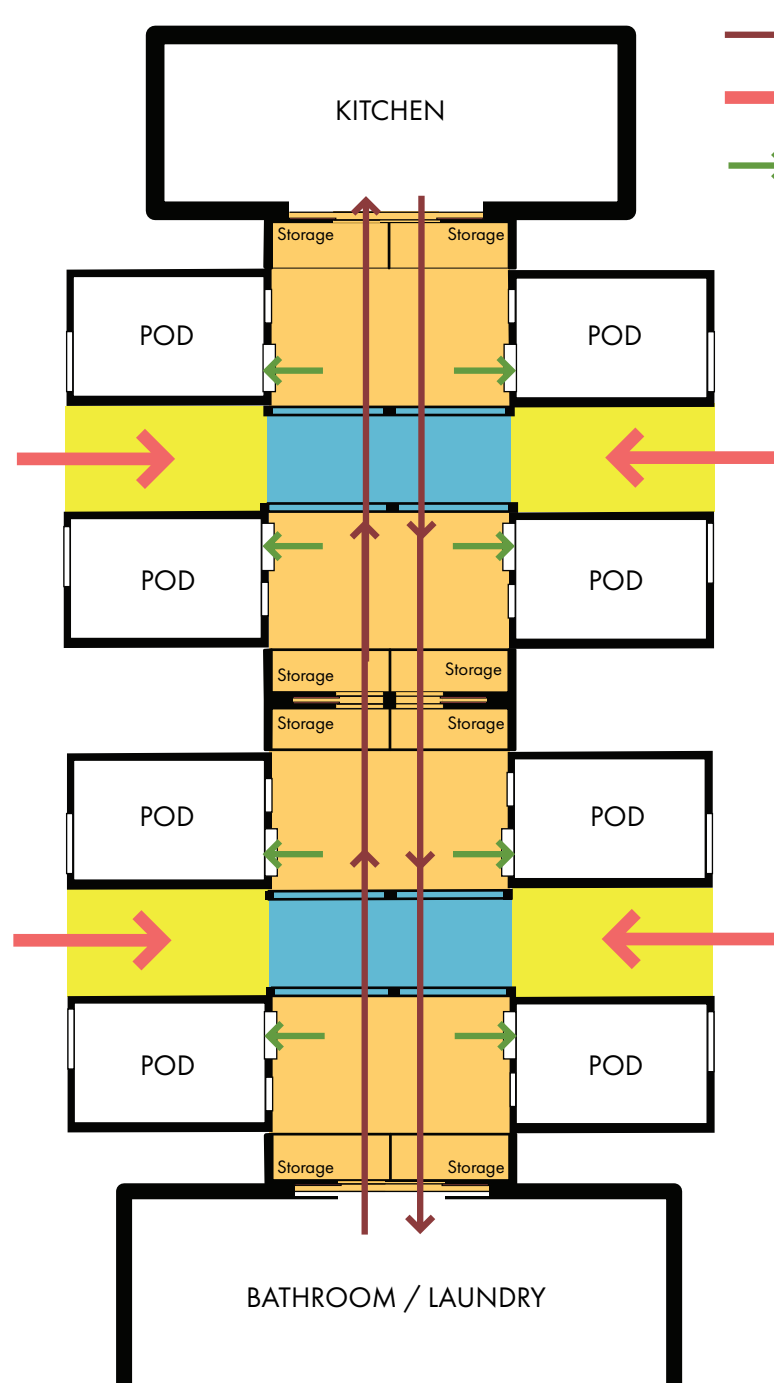
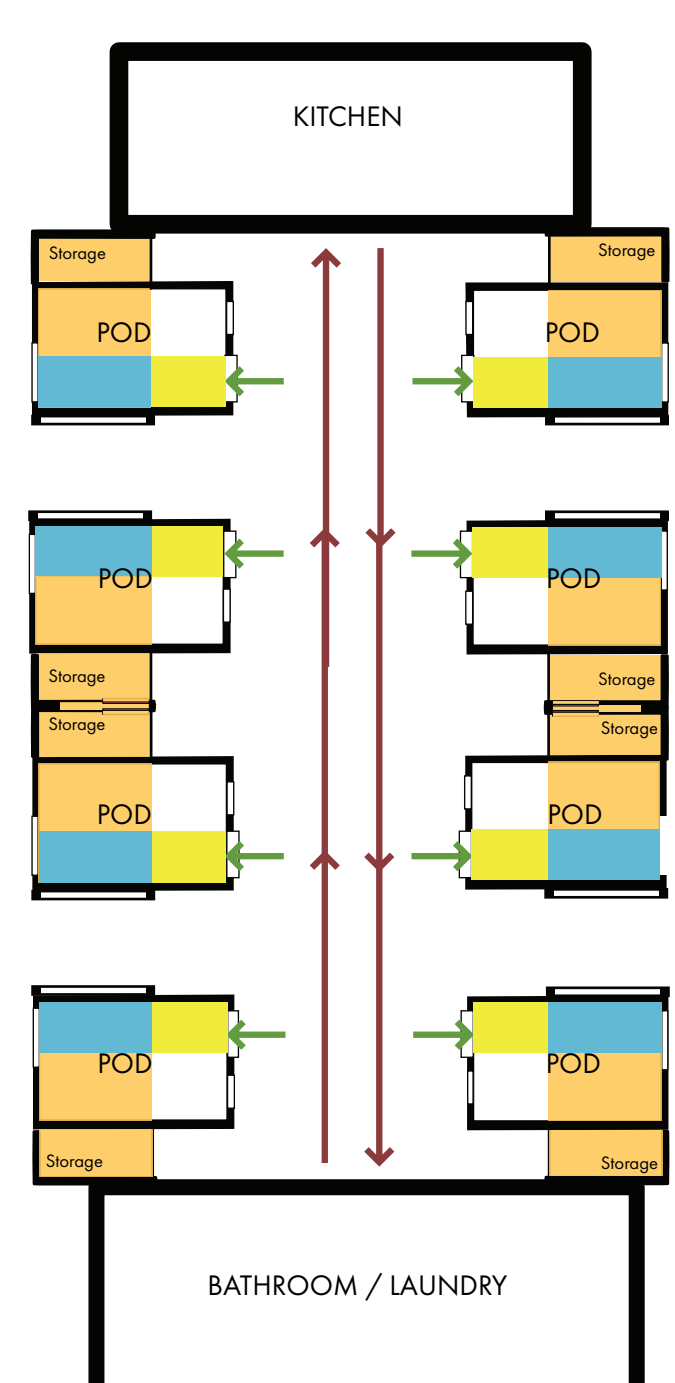
- Fully closed common area
- Allowing gathering and freedom of movement during cold harsh weather.
- Storage area can either be used for storage or living space

81 F
Hot



In Movement :

- Freedom to regulate the position
- Can be used as private Patio or extra isolation
- Storage area can either be used for storage or living space



WHAT IF A VILLAGE WAS A HEALING GARDEN?

Turning Trauma into Triumph

The common perception that homelessness is the result of poverty is not wholly inaccurate, but it does not include the many other circumstances that can impact a person's living situation. Physical, sexual, and emotional trauma can also impact an individual's likelihood of experiencing homelessness. In addition, during a period of homelessness, a person is often subject to severe trauma. In looking for solutions to the homelessness crisis, it is essential to create healing spaces which bring a sense of security, nourishment, and stillness. Overall, housing and healing must be the focus of any environment seeking to address trauma within.



5-24million

people are estimated to suffer from **PTSD** due to the stress and trauma of experiencing homelessness.*



36.3%

of people experiencing homelessness have also been victims fleeing **DOMESTIC VIOLENCE.***

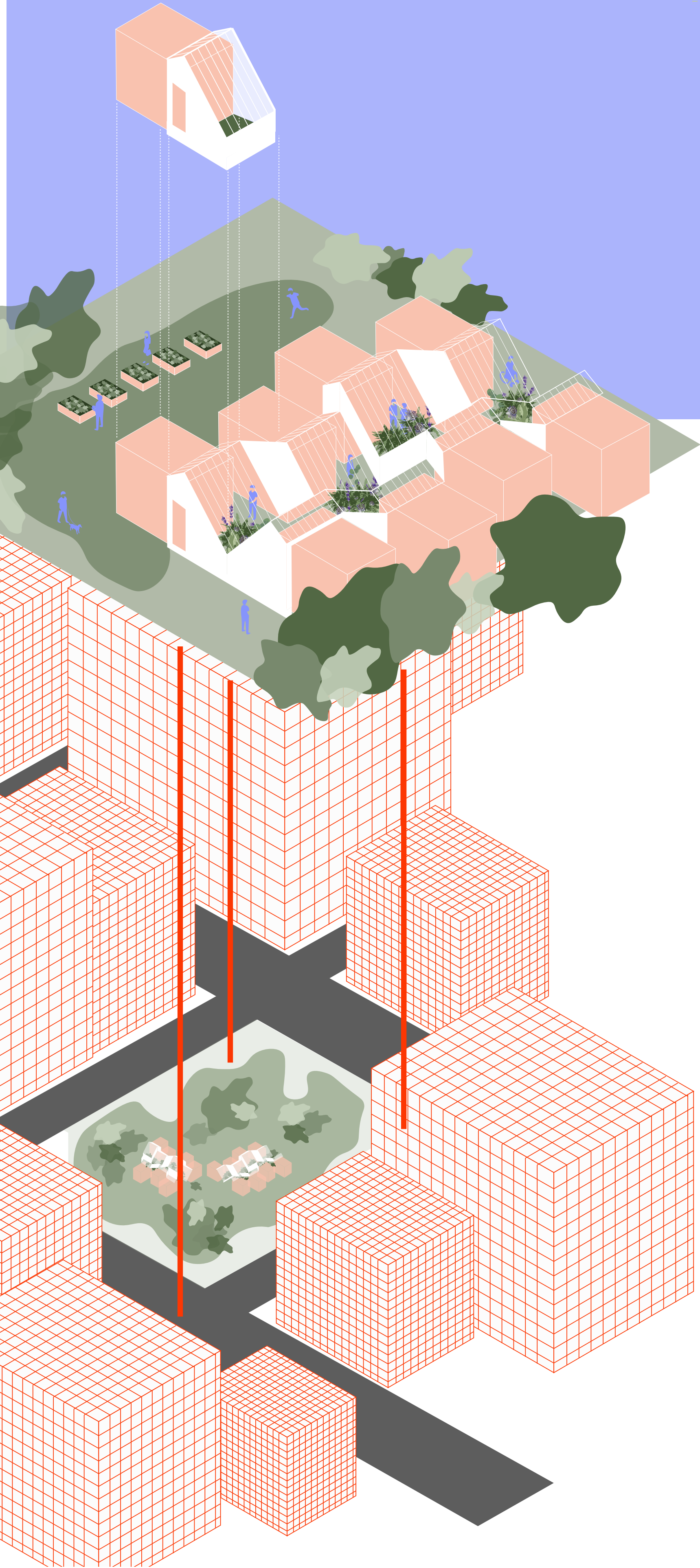
50%

less likely to suffer a stress induced inflammation in the body when exposed to the bacteria **M. VACCÆE** which is found in dirt. Studies have shown that M. Vaccæe increases Serotonin levels in the brain.

Housing + Healing

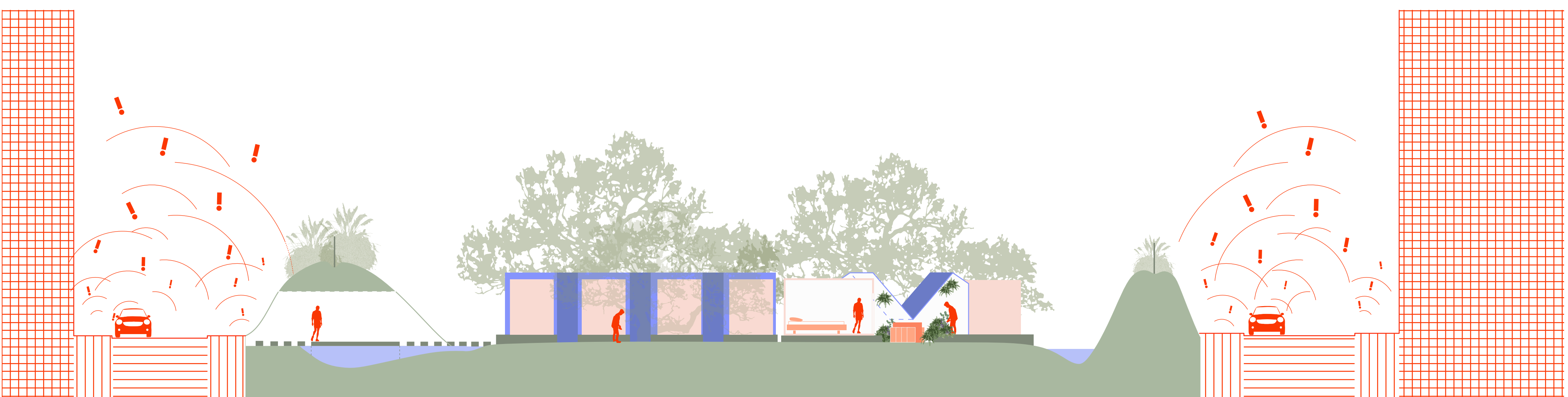
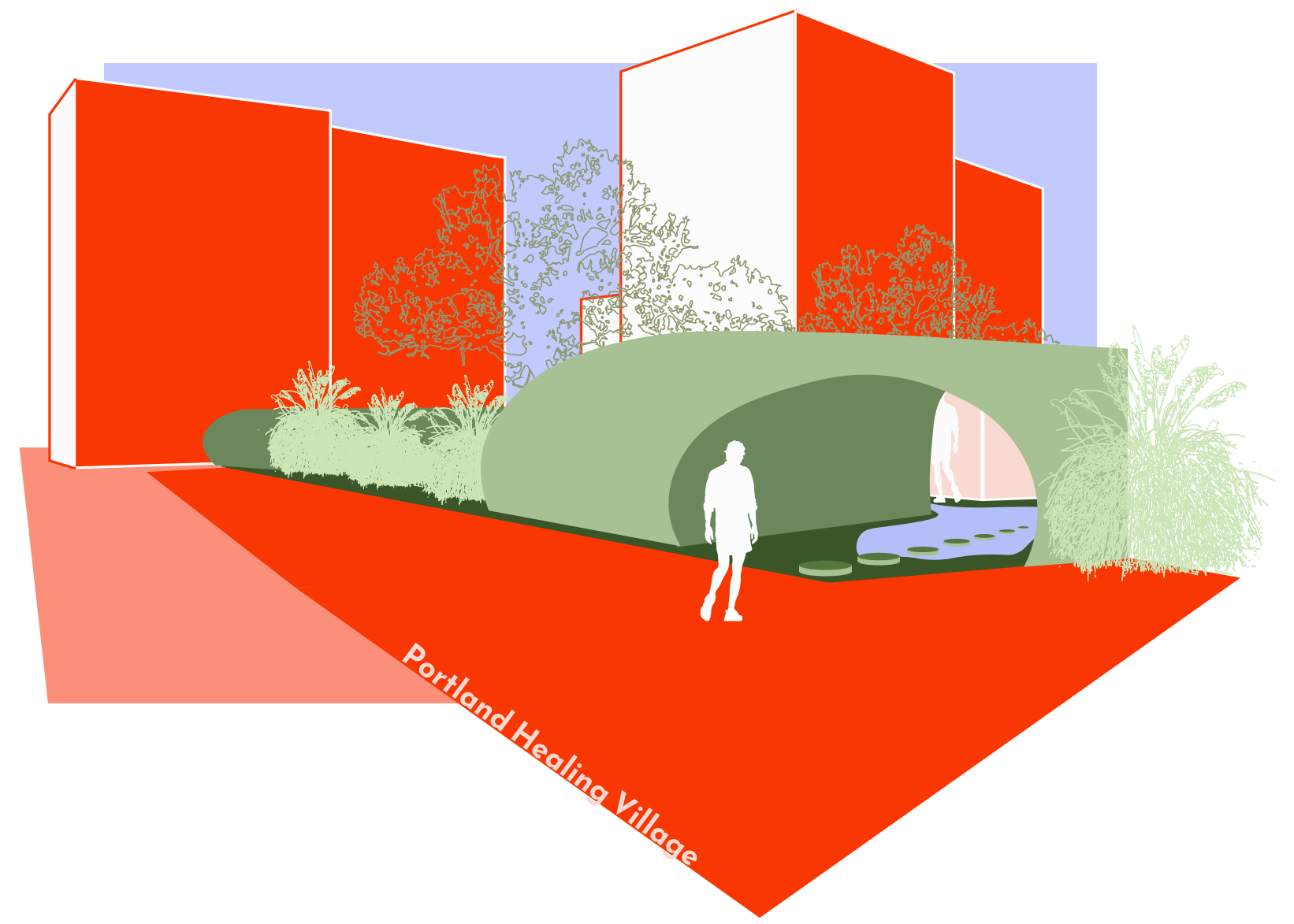
Studies have shown that the region of the brain associated with feeling depression had decreased activity from walking in a **natural environment** for

90mins



Making Cement Soft

In this design proposal, the individual and collective greenhouses are meant to be a resource for the residents where they can find healing through connecting with the earth. Many studies have shown gardening to be an active form of therapy capable of providing a sense of grounding for someone experiencing depression or anxiety. The larger site is meant to bridge the divide between the harshness of a city block or busy intersection.



WHAT IF PARKS COULD SHELTER HOUSLESS INDIVIDUALS AND BENEFIT PARK USERS

WHY PARKS?



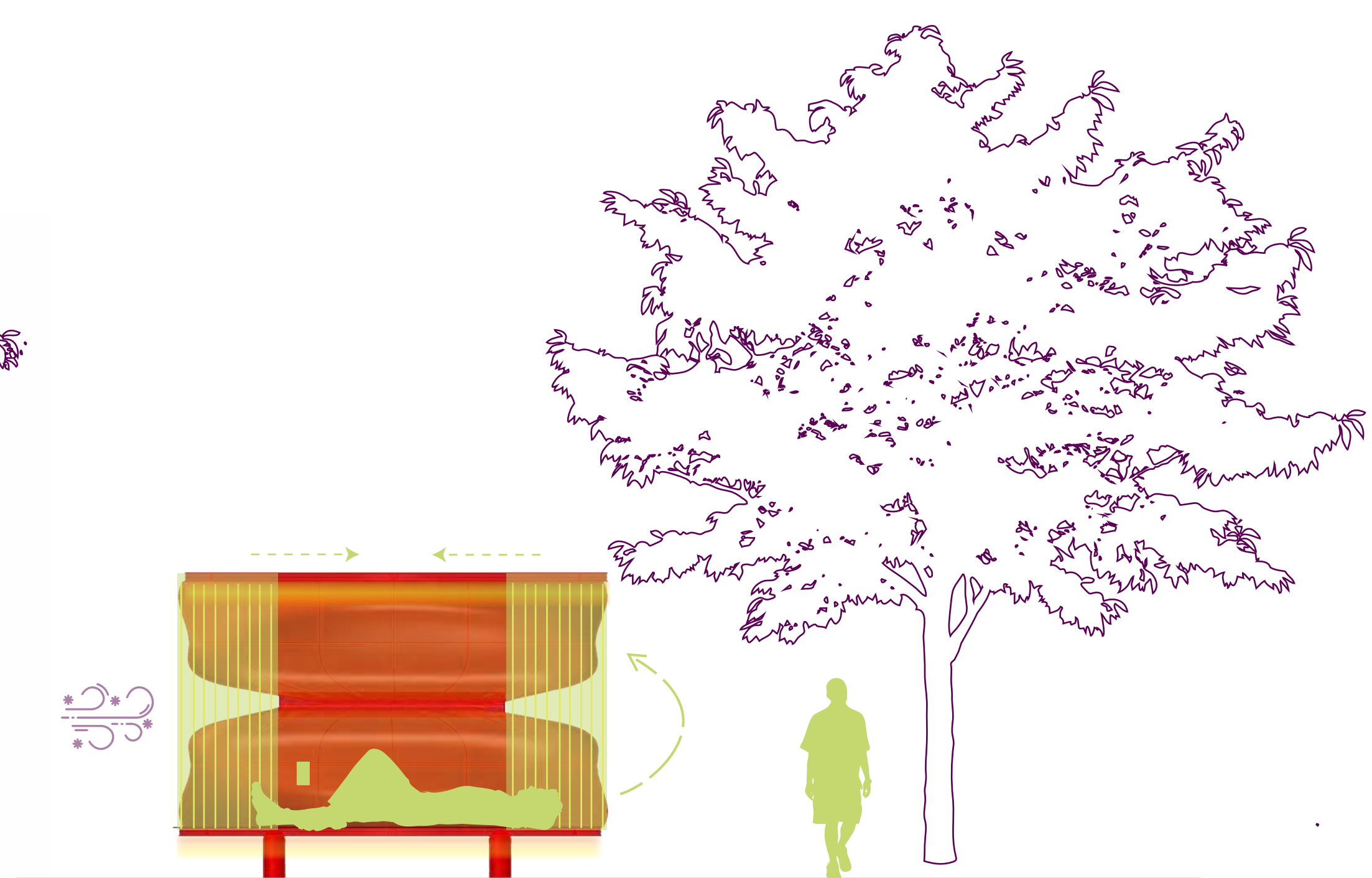
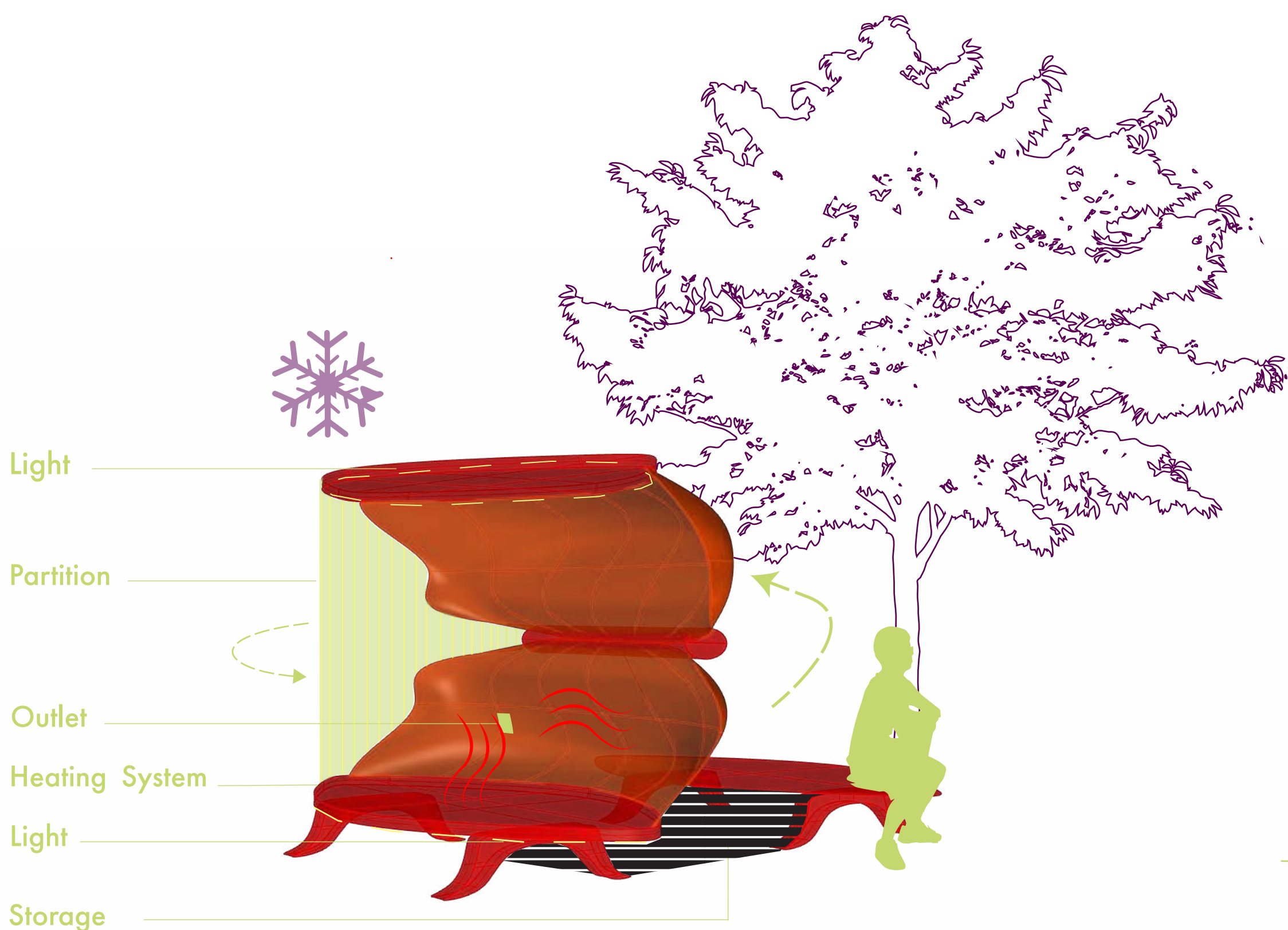
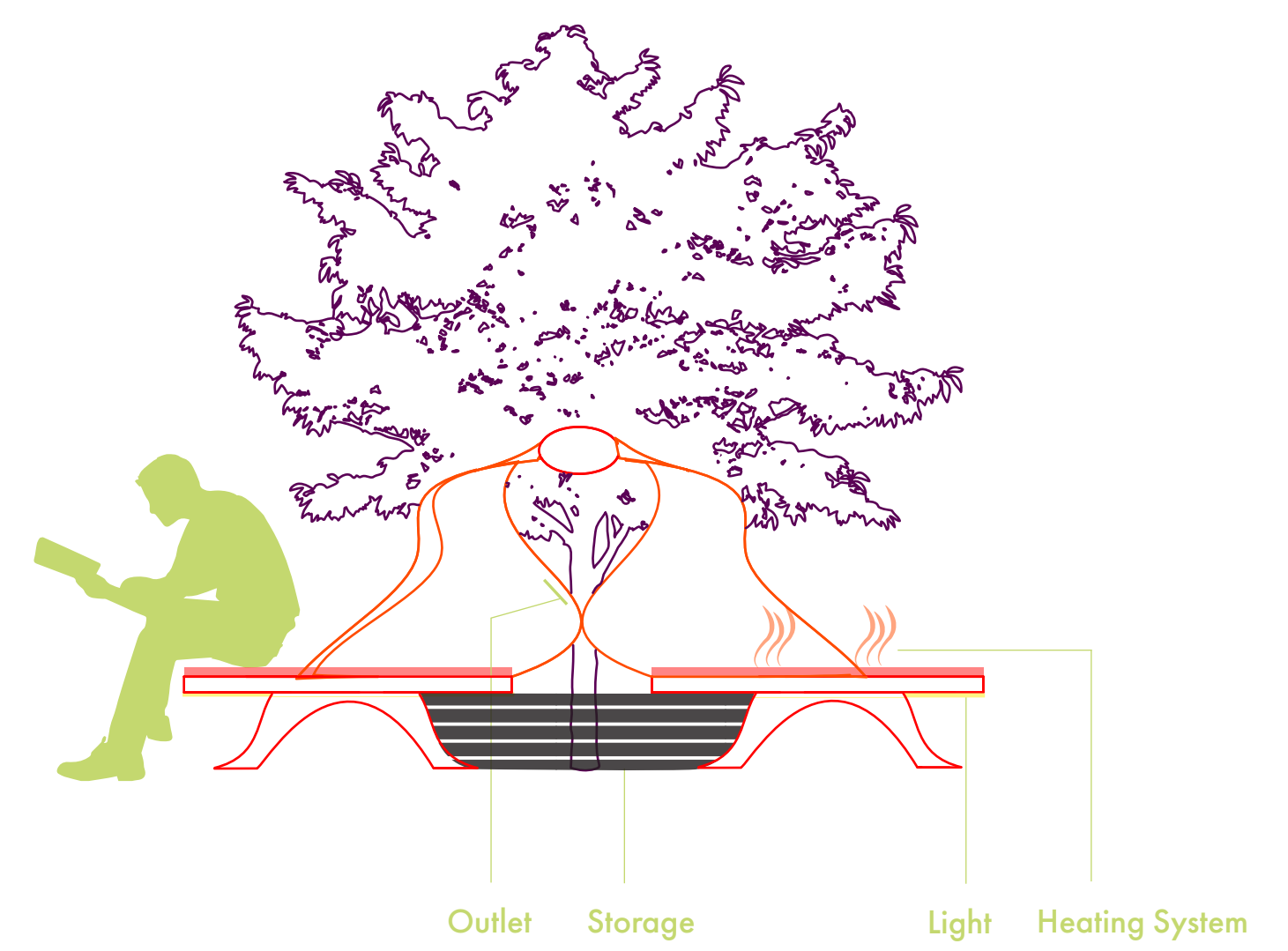
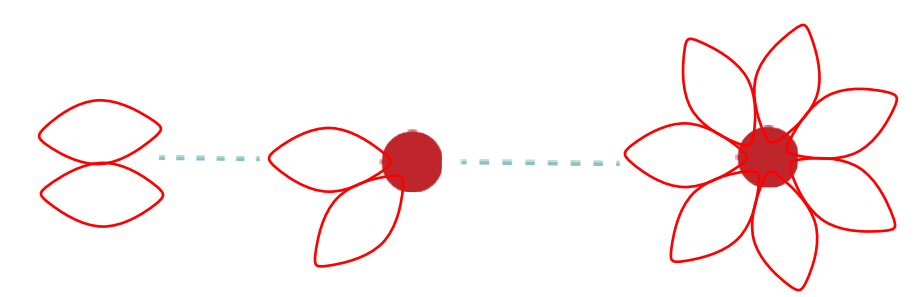
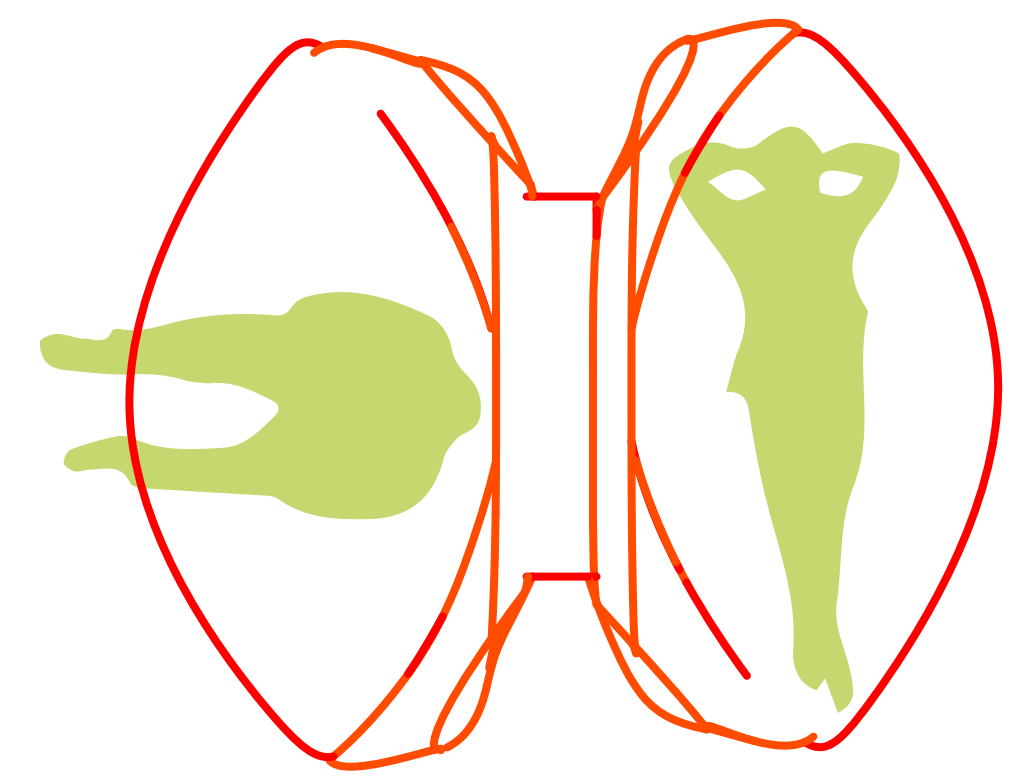
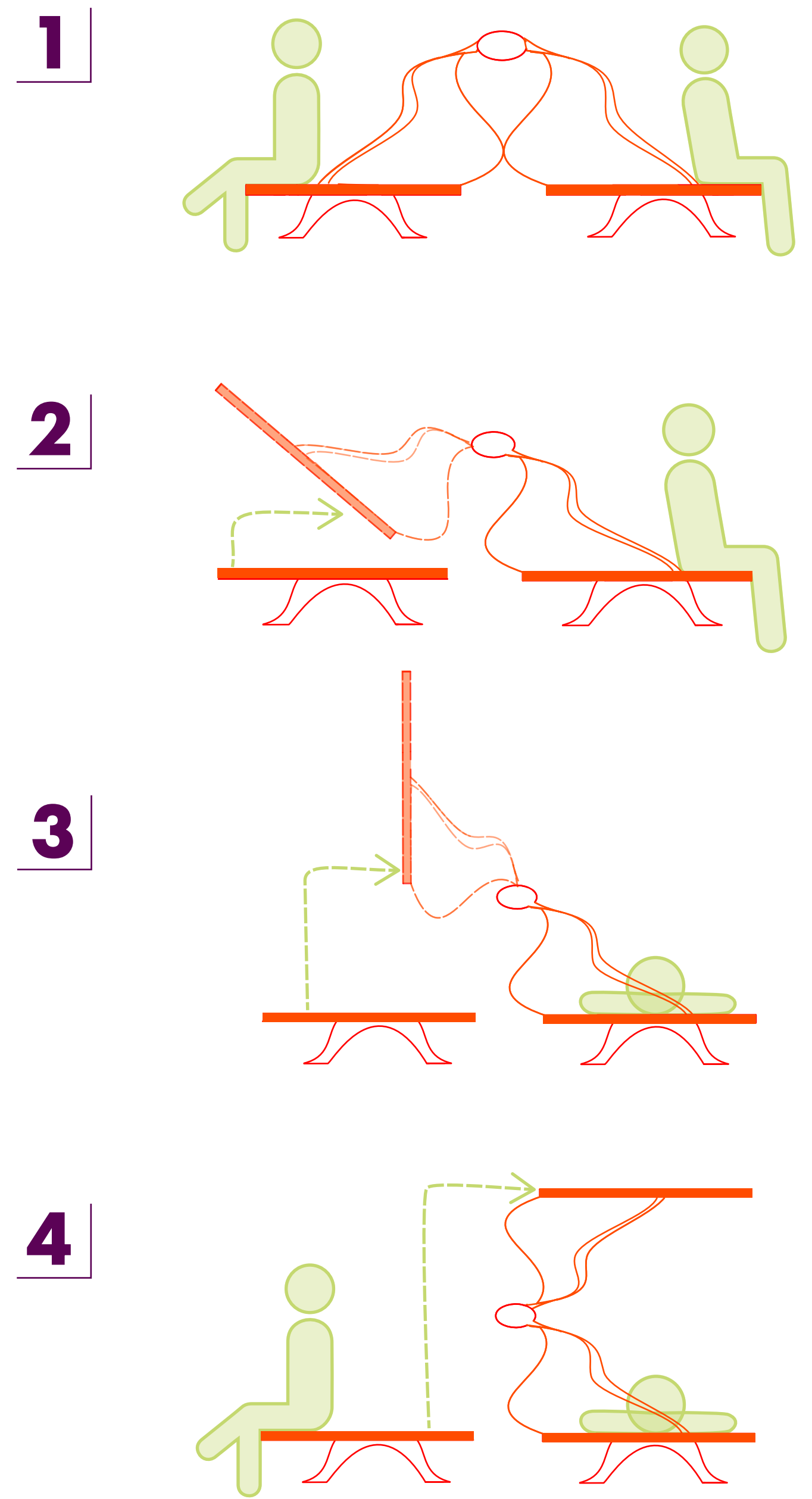
Project Overview

Parks provide several amenities for public users such resources are indispensable for individuals that are experiencing homelessness. Correspondingly, designing an intervention that is placed in nature nourishes the soul. "Nesting Haven" is a proposal that is envisioned to provide people comfort, care and a home away from home. "Nesting Haven" is a shelter that nurtures one's soul and self-dignity, it also carries a valuable message that rest is treasured considering that's when the mind is silenced.

Nesting Haven

South Park Blocks

NESTING HAVEN



WHAT IF INFORMAL ENCAMPMENTS WERE PROVIDED RESOURCES FOR DEVELOPMENT?

In cities experiencing the homeless epidemic, communities of houseless individuals construct encampments in the urban environment. These informal encampments are vital to creating community for the vulnerable demographic. Although these encampments benefit their occupants, complaints from surrounding neighborhoods lead to the city performing camp sweeps. These sweeps, costing the city of Portland \$3.7 million in 2018 and displacing many individuals, are ultimately counterproductive as the encampments often relocate to nearby sites.

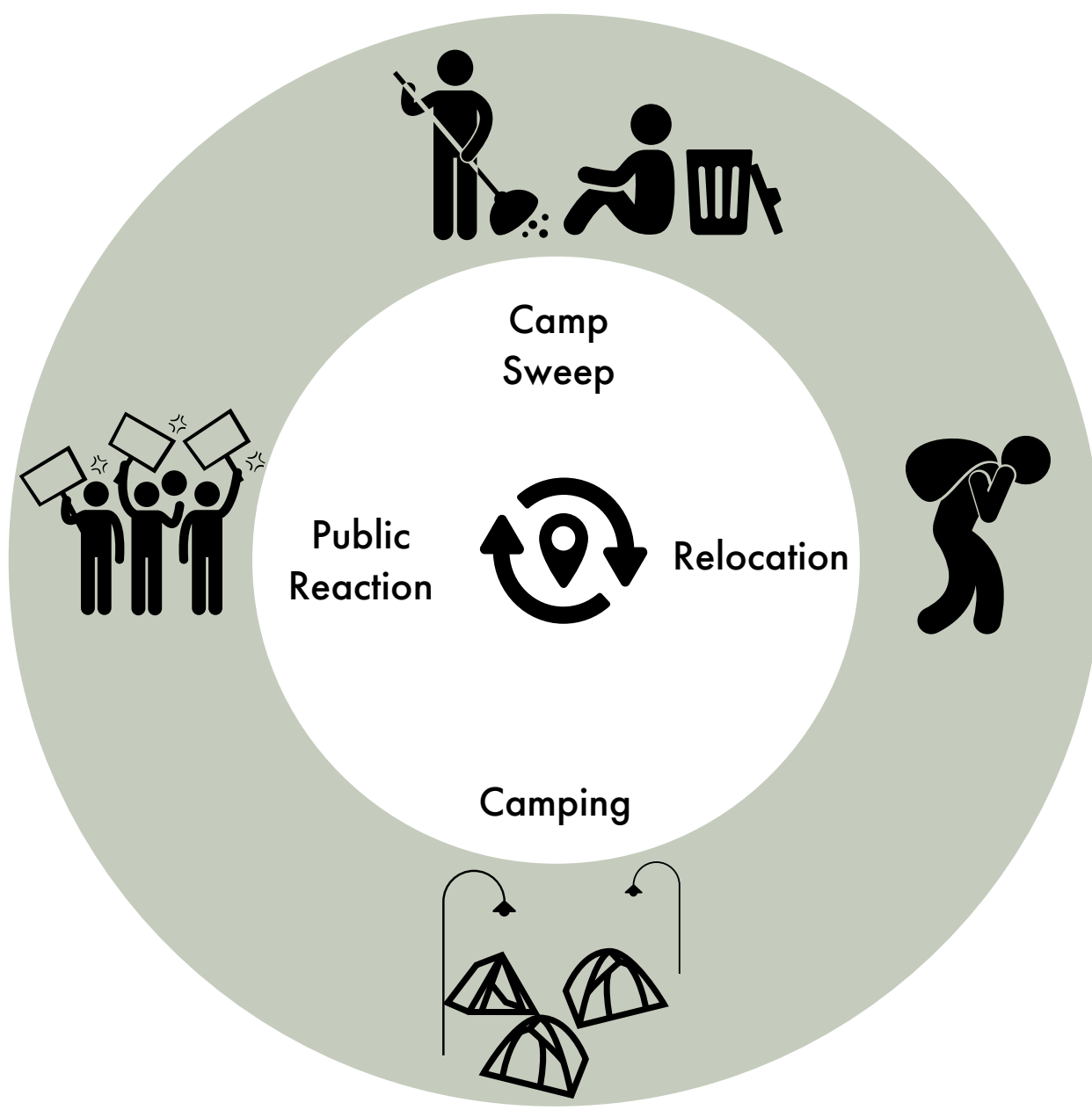
In using unsanctioned houseless communities as a foundation for developing successful transitional housing villages, these communities will advance groups of connected and supportive individuals. Through providing encampments with an address and other essential resources, the community's occupants will be better able to reconnect with society. Various Portland villages, created through different processes, demonstrate how basic services benefit the development of transitional housing communities. Without fear of a camp sweep, the community can focus on transitioning residents into permanent housing.

Beginning with case studies, this design proposes the implementation of services throughout four phases that are heavily reliant on the community of houseless individuals. Once a site is occupied, the encampment will be provided with an address, and basic service units. Third-party influence will decrease as development and regulation become the community's responsibility. Diverting funds for sweeps towards the creation of deployable service units will enable informal encampments to grow as a part of the greater community.

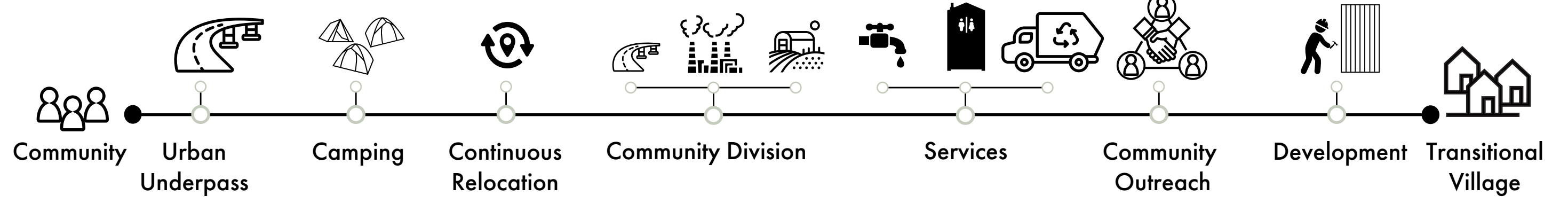
Kuzman, Diana "Portland's Homeless Campers Face New Obstacle: Piles of Boulders." Oregon Live, The Oregonian, 4 July 2019

Paths to Development (Case Studies)

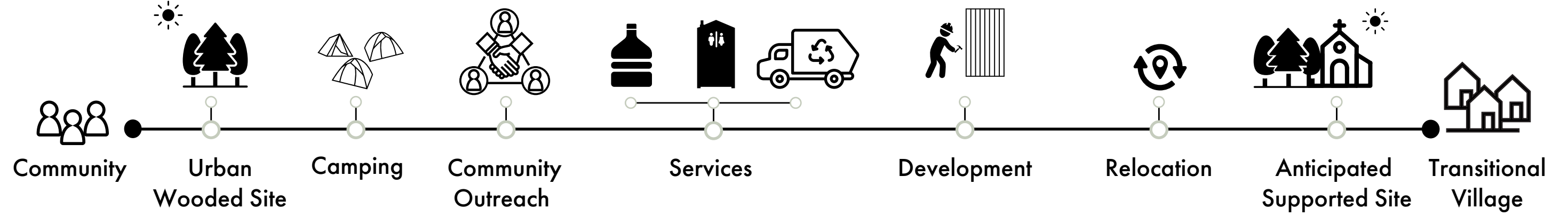
Current Response



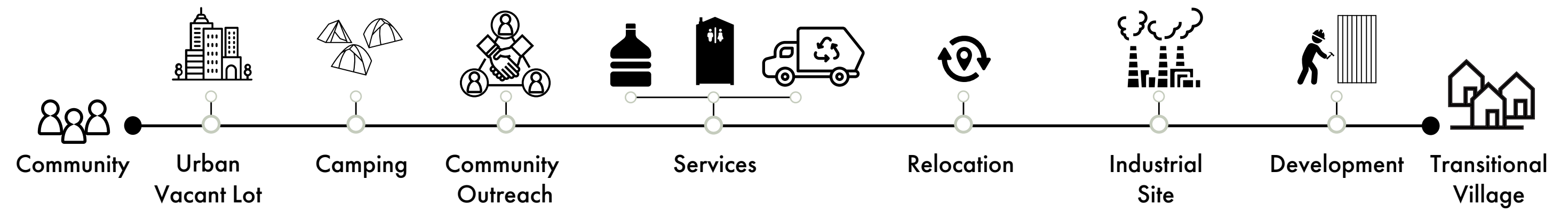
Dignity Village: 2000 - Present



Hazelnut Grove: 2015 - Present



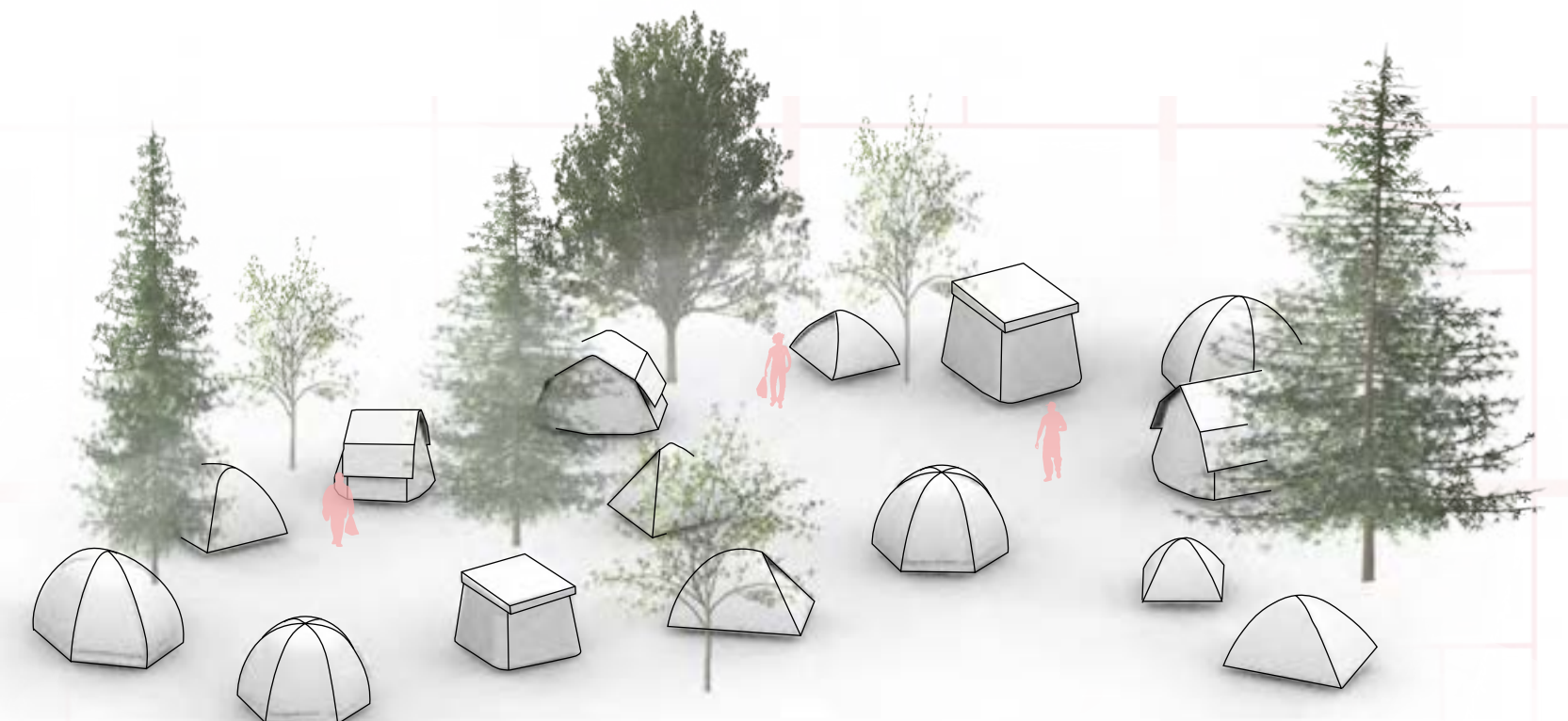
Right to Dream Too: 2011 - Present



Phases of Village Development

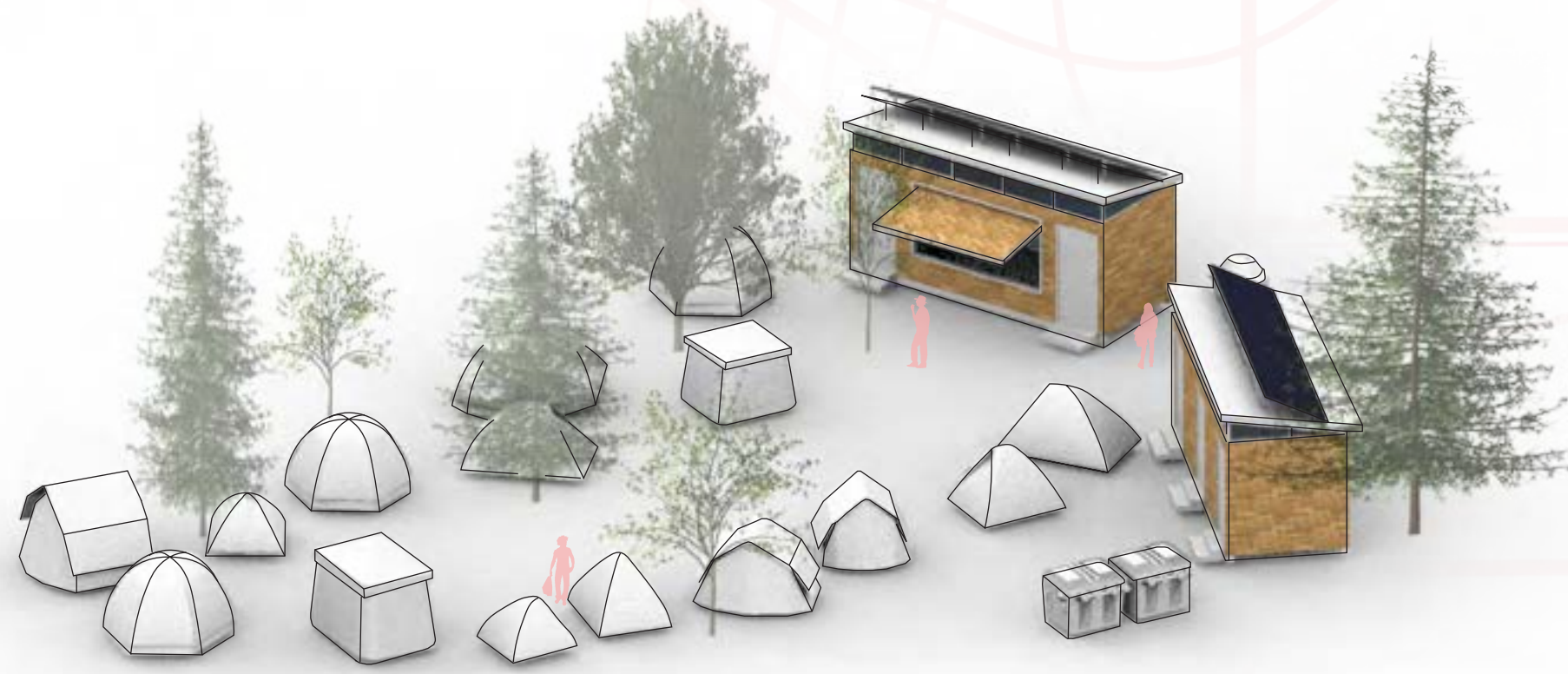
1. Site Occupation

Regardless of city regulation, an informal houseless encampment will occupy a site to preserve the safety of the individual and the houseless community.



2. Service Implementation

Once the village has been developed, individual members will be able to focus on the advancement of ones self, ultimately resulting in a transitional community that is more effective in preparing individuals for permanent housing.



3. Village Development

With basic services available to the community, the encampment will be encouraged to develop in order to improve the quality of life for members of the transitioning community.



4. Transitional Village

Using the funds allocated for informal encampment clean ups, a third party will provide the community with a restroom, kitchen, as well as water, trash, and other basic services necessary for survival and prosperity.



Services Benefiting Village Development



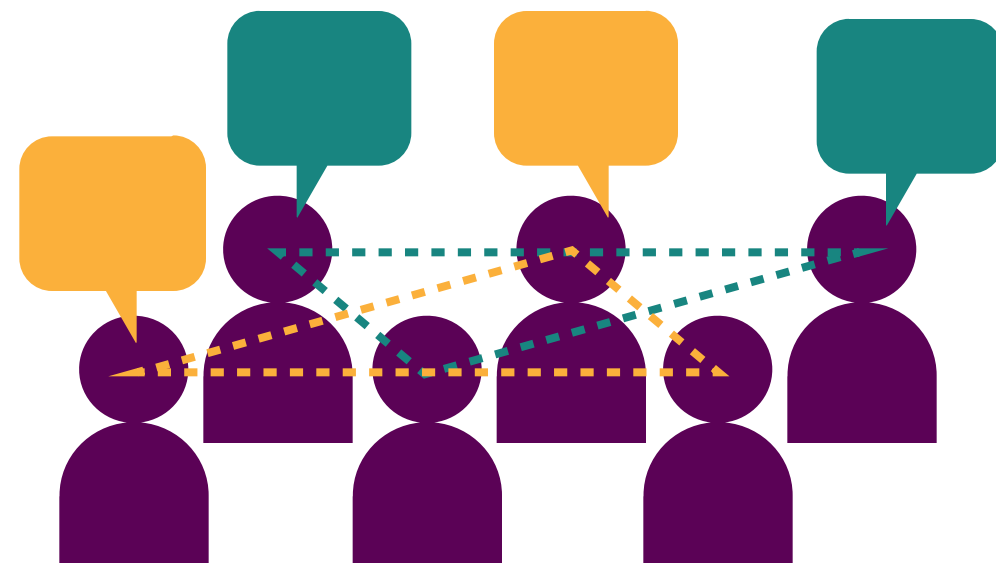
WHAT IF VILLAGES WERE DESIGNED AROUND PEOPLE'S PASSIONS?

CURRENT VILLAGE MODEL



● VILLAGES ARE BEING DESIGNED AROUND HOMELESSNESS WITHOUT TAKING INTO CONSIDERATION THE UNIQUE PASSIONS EACH PERSON HAS.

NEW VILLAGE MODEL



- COMMON PASSIONS
- CREATE SYNERGIES
- BUILDING A COMMUNITY



ART



SPIRITUALITY



ATHLETICS



MUSIC



GARDENING



GASTRONOMY

CASE STUDIES



MILE POST 5 PORTLAND, OR

Milepost 5 is an inexpensive housing complex dedicated to those who are working artists of all disciplines.

Source: milepost5.net/about
Image Source: beamdevelopment.com



OLYMPUS ORLANDO, FL

A community that will give athletes a one of a kind dedicated environment to train, compete as well as live in.

Source & Image Source: clemsonfl.gov/Olympus

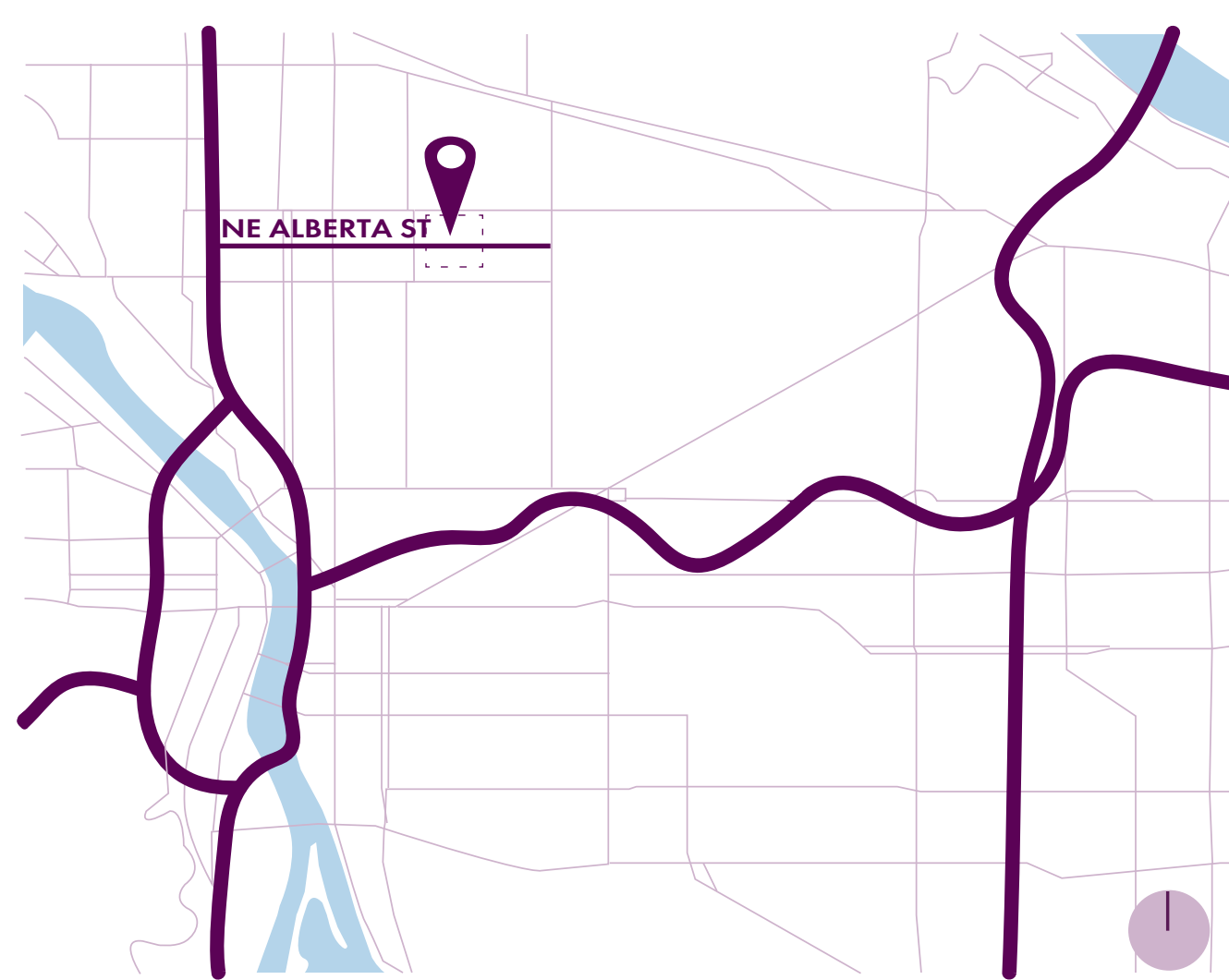


BLUEBONNET STUDIOS AUSTIN, TX

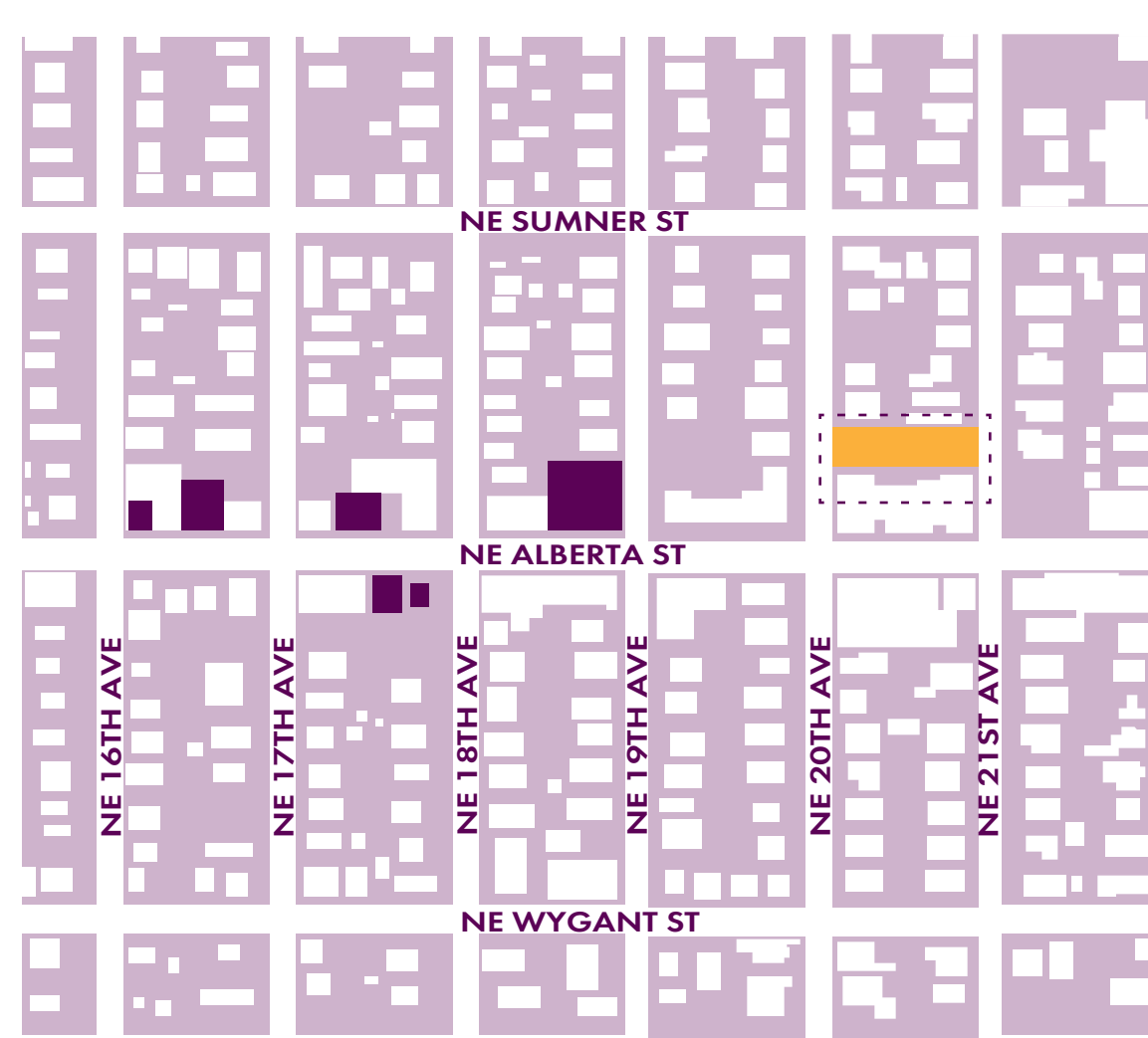
Affordable housing for low-income musicians as well as those experiencing homelessness.

Source & Image Source: huduser.gov

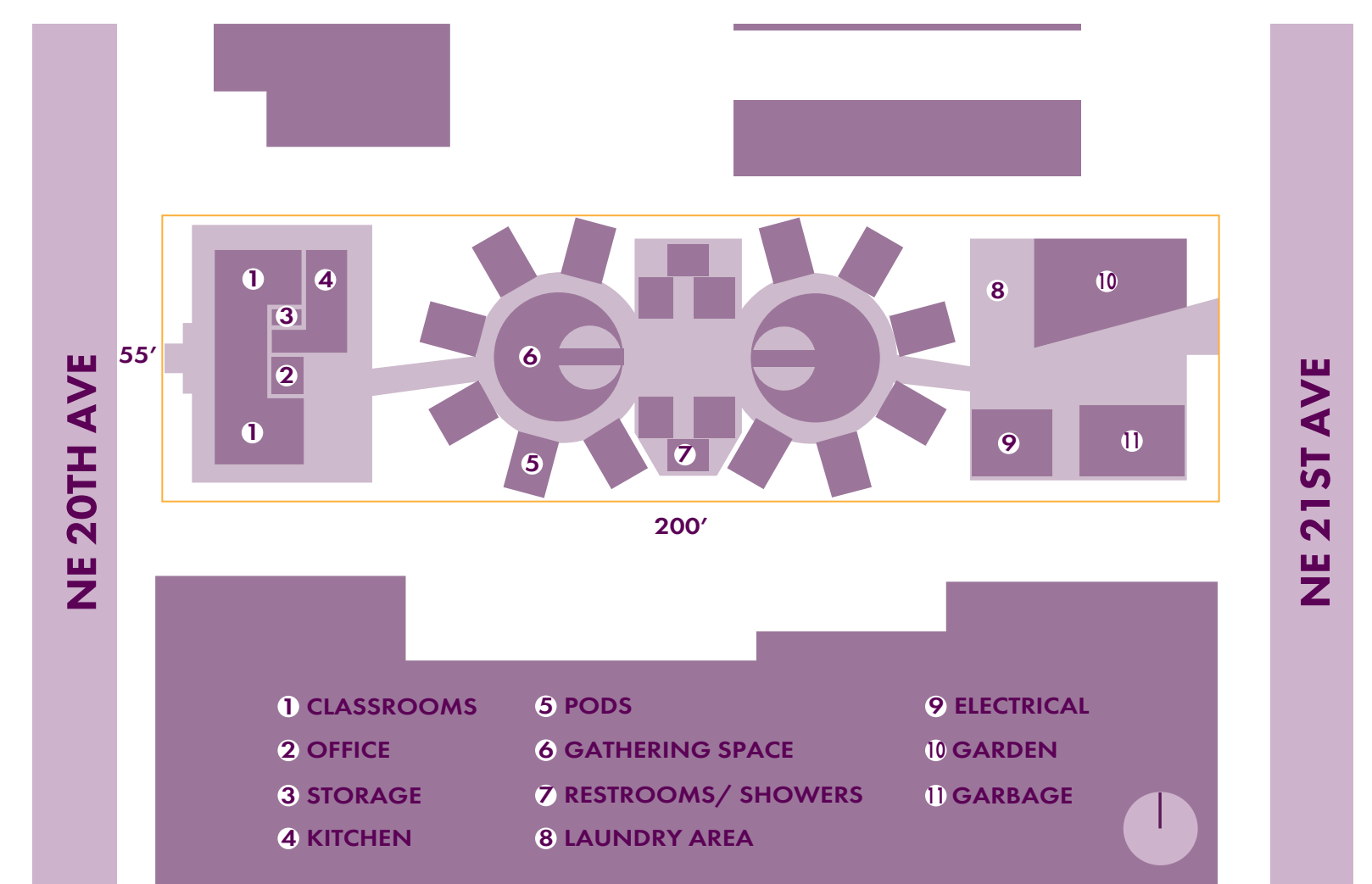
VILLAGE PROPOSAL: TO DESIGN A VILLAGE THAT CELEBRATES ART



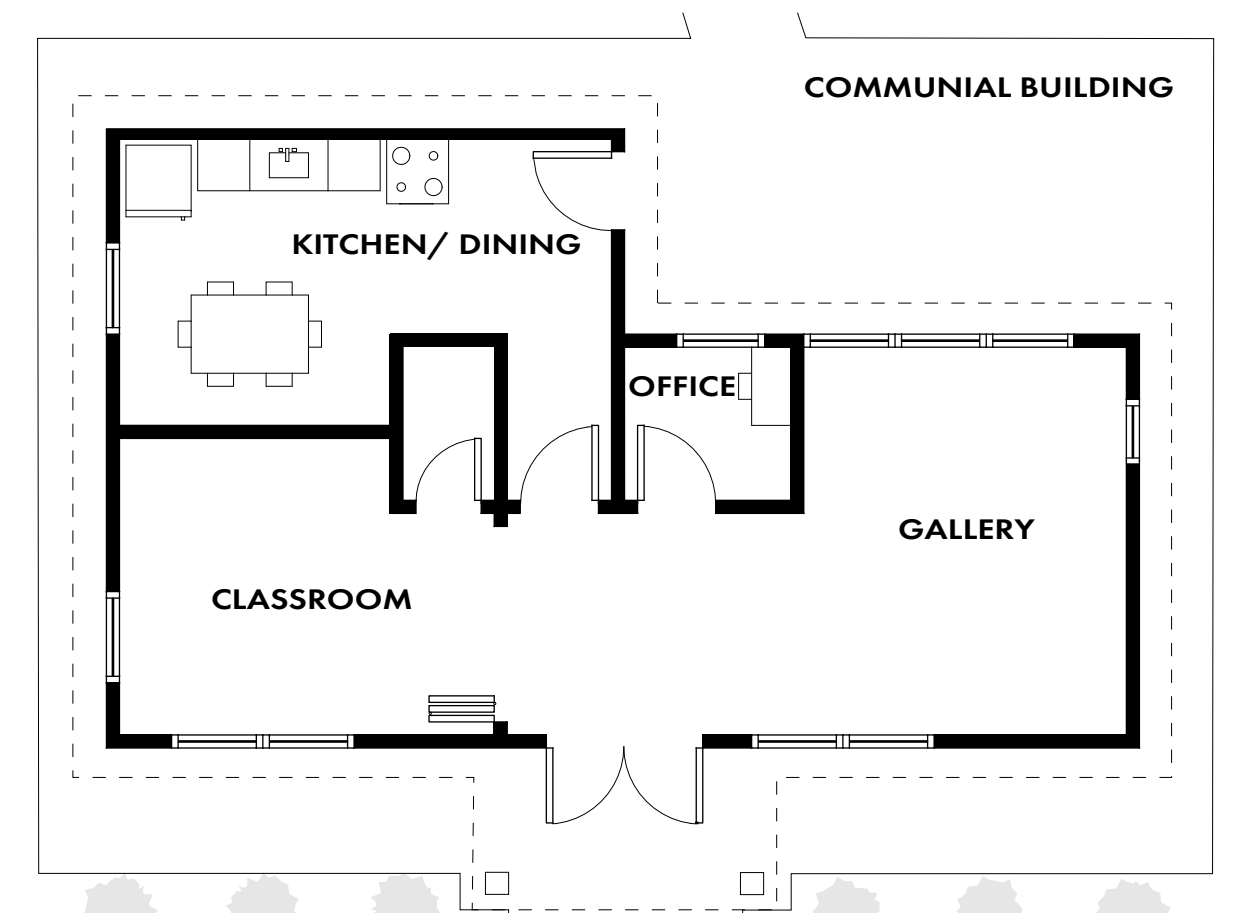
LOCATION: PORTLAND, OR
ALBERTA ARTS DISTRICT



■ SITE ■ ART GALLERIES/SHOPS



SITE PLAN



WHAT IF BIKE VILLAGES REPLACED INFORMAL CAMPSITES?

WHAT IS AN INFORMAL CAMPSITE?

An informal campsite is called by many names and defines many representations of shelters and tent cities. They have been seen as a nuisance against the city while still growing. These campsites are groups of house-less living apart from the system of shelters. With their personal belongings and making a home alongside public spaces like sidewalks, trails, and highways.

WHY BIKE TRAILS?

Bike trails are a part of Portland urban growth, stretching out 86 miles of non-motorized trails that are used every day for commuting and recreational use. Bike trails and surrounding areas have also been used as unsheltered homes for the houseless population of Portland. Trails provide an area away from the scrutiny and safety of residents and businesses who don't prefer to have an informal campsite near them. Many cyclists prefer the houseless don't live on the trail, but with the lack of overnight shelters, public spaces and the growing population of houseless, space is limited.

WHY BIKE PODS?

Bikes are a convenient public form of transportation, since these trails don't allow any motorized vehicles. Bike pods are able to shelter a person with more durable material than a tent, but still being small and portable for transportation from village to village. For the houseless, bikes are important because they are more affective getting from one place to another.

WHY DO PEOPLE CHOOSE TO RESIDE IN CAMPSITES RATHER THAN EMERGENCY SHELTERS OR TRANSITIONAL?

There are many reasons why people choose to reside on informal campsites rather than a shelter. It can be due to personal reasons, mental health, risk of losing property due to theft, and first come- first serve services. Shelter's don't allow pets, couples are harder to place in a shelter, and there can be a lack of community. The lack of community and the lack of permanence makes living on a informal campsite more reliable.

2019 POINT-IN-TIME COUNT, PORTLAND

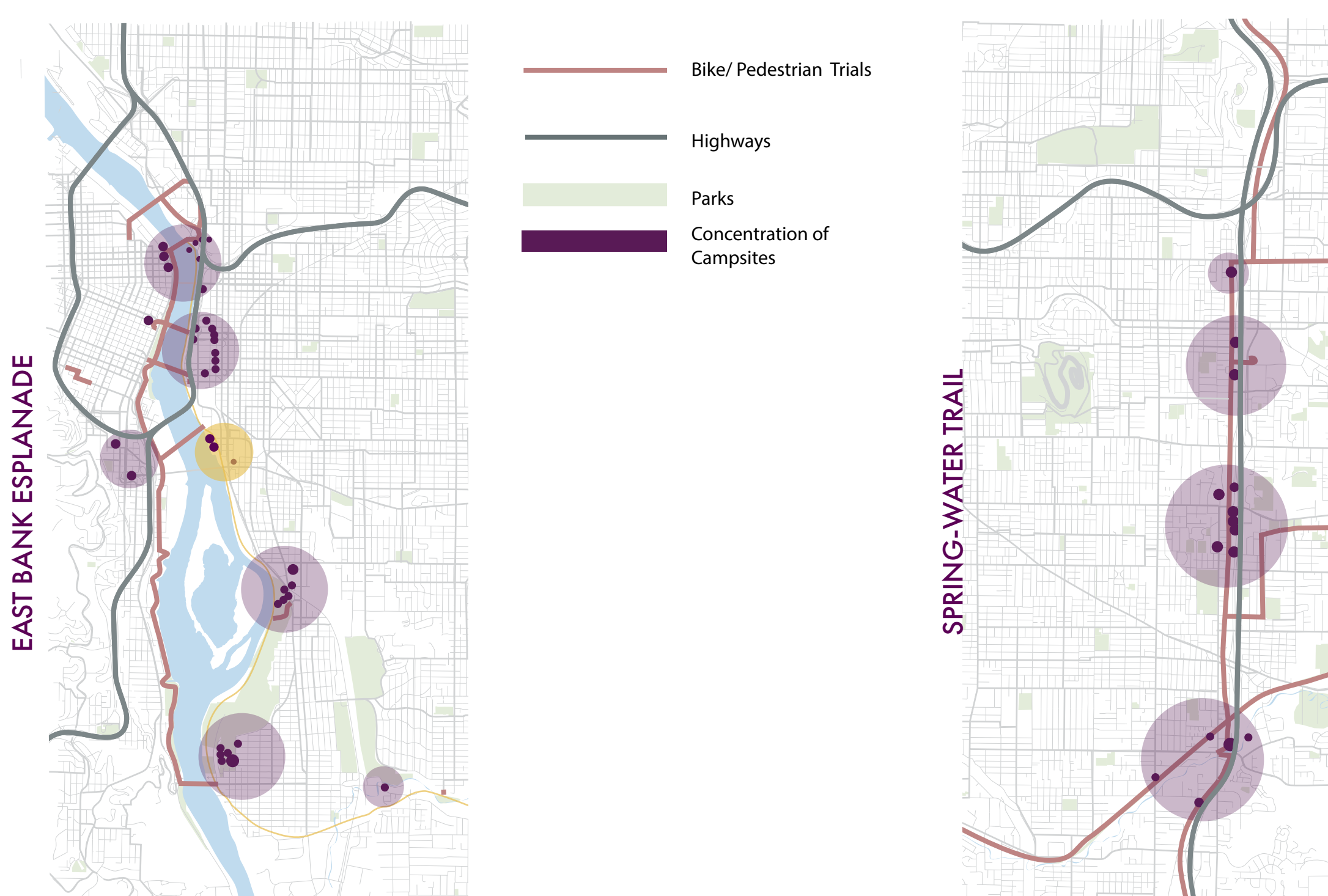
UNSHELTERED

2,037

EMERGENCY SHELTER

1,459

TRANSITIONAL HOUSING 519



PERMANENT



BIKE VILLAGE

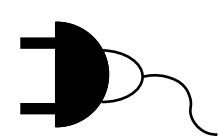
An overhead shelter able to house 8 bike pods, Doors are open mid-afternoon to provide safety and heated shelter for the occupants during the night.

Avg. 1500 Sq. ft



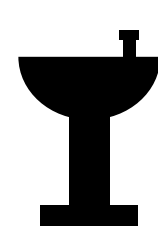
RADIANT HEATING PANELS

Radiant heating panels are attached to the ceiling of the village. With cold nights, heating is an essential.



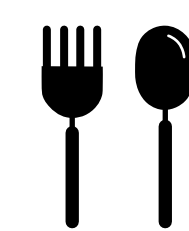
BIKE POWERED GENERATOR

A bicycle powered generator, along with access to power lines.



WATER FOUNTAIN

There are 4 water fountains located on site, available to the public and village.



KITCHEN

Full kitchen is available for occupants of the village. Access to water and utilities.

Avg. 300 Sq. Ft.

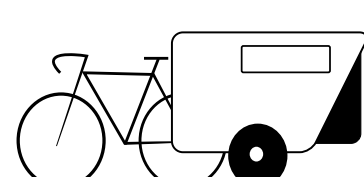


BIKE WORKSHOP

Bike / Pod workshop with full access to tools and material. Open for village and public.

Avg. 500 Sq. Ft.

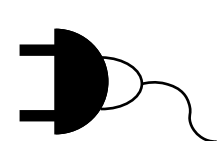
MOBILE



BIKE POD

A bicycle is attached to a pod. Designed for mobility and used as a main shelter for the houseless. The pods include a bed, window, and shelf.

Avg. 20 Sq. Ft.



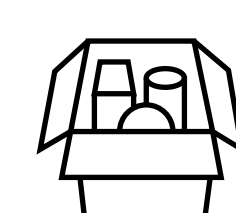
CHARGE 'N CHILL

A solar powered panel is attached to a bicycle, completely mobile. Able to charge 14 devices at the same time. Includes a PA system and wifi hotspot.¹



PORTA-POTTY BATHROOMS

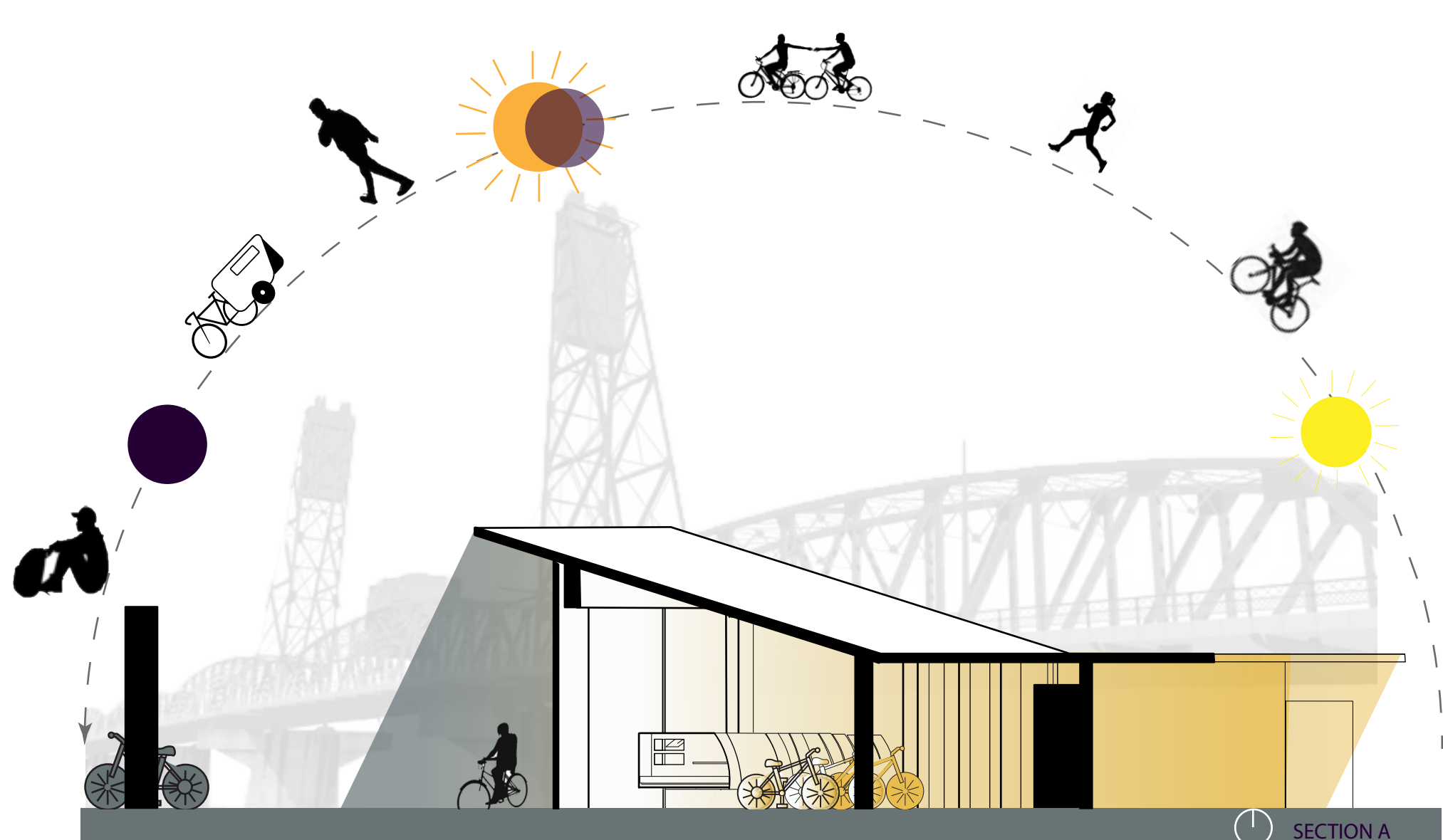
There are 2 Porta-Potty available 24/7. Maintenance is necessary. Is able to move to other villages along the trail. Hygiene kits are available to all occupants.



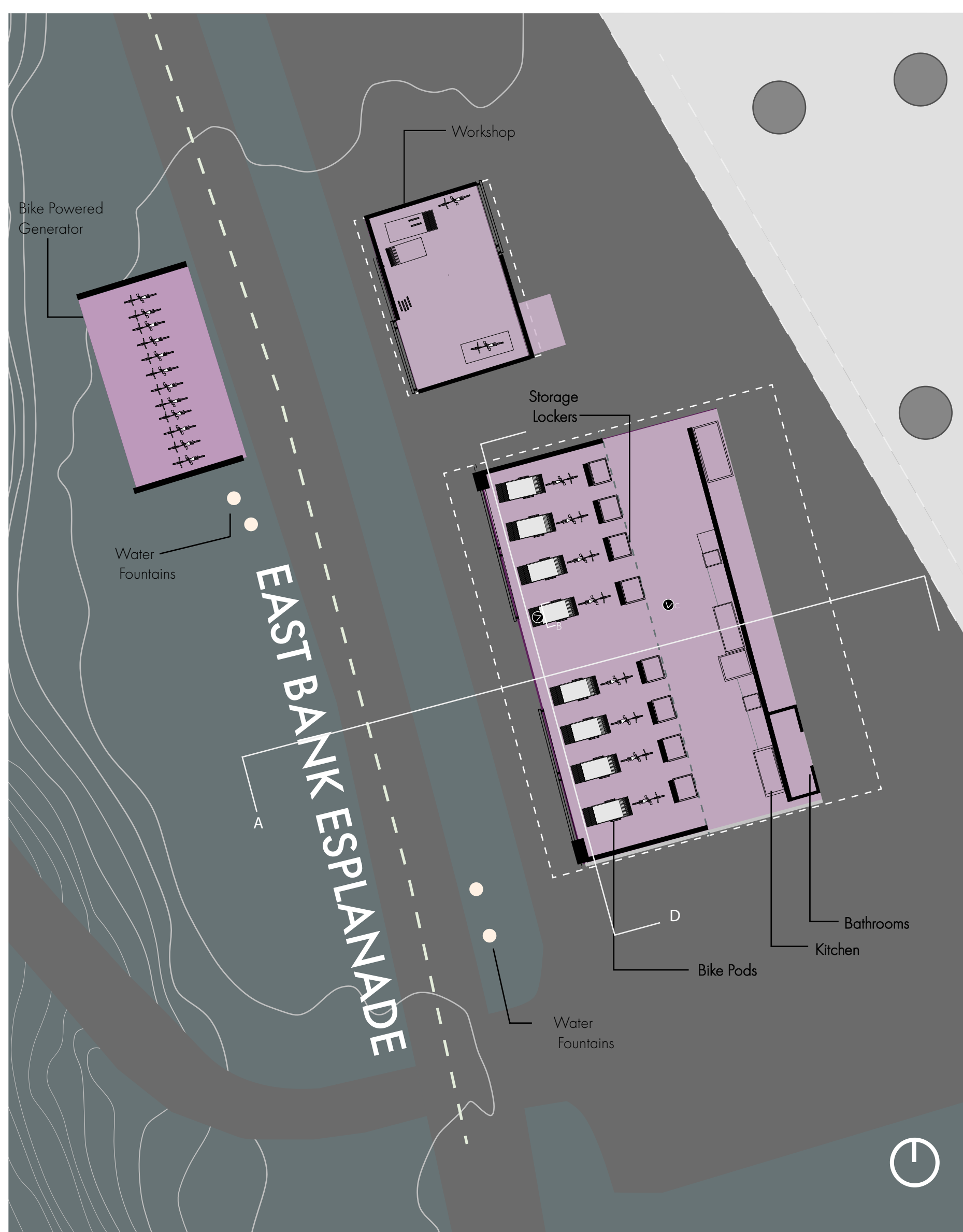
FOOD PANTRY

Food and utensils are donated by the Portland Rescue Mission. Food is available for the occupants.

¹ <http://skidrowpower.com/charge-n-chill/>



PERSPECTIVE B



PERSPECTIVE C



PERSPECTIVE SECTION D