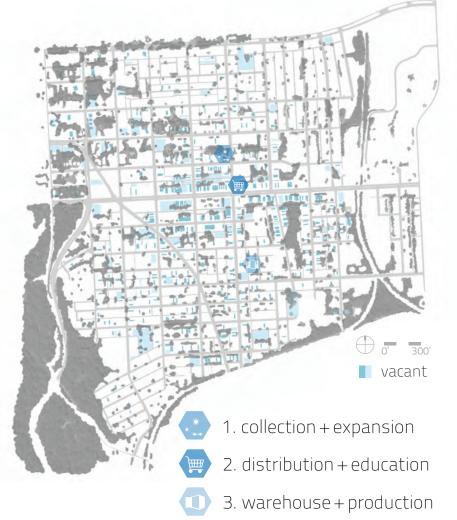


[symbols]

1. collect + expand

2. distribute + educate 1. warehouse + produce

[context]



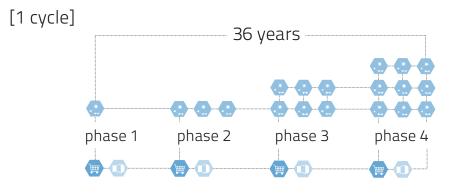
[block typologies]

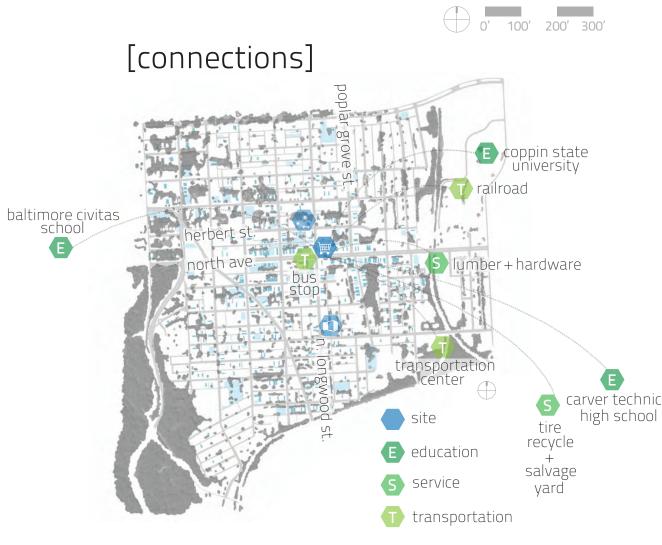
The chosen sites will adhere to specific block typologies to maximize potential benefits. For instance, the distribution site [2] must be located on North Ave. in the business district. The collection sites [1] will be targeted vacant lots to expand + create habitat connectivity in each successive phase.



[longevity]

Site [2] + Site [3] will be established permanently in the NW GRAMA quad. Site [1], however, will multiply every 12 years. Four phases should occur before the cycle reaches its maturity of 36 years. Once the cycle is complete, it is assumed that the raw materials and majority of vacants will have been converted into new habitat + urban development.





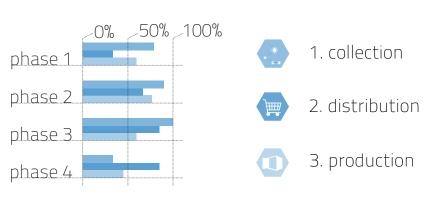
[land conversion]

The existing vacants will be transformed through best management practices as proposed by the BES and BOS to decrease stormwater runoff and increase habitat with biodiversity.

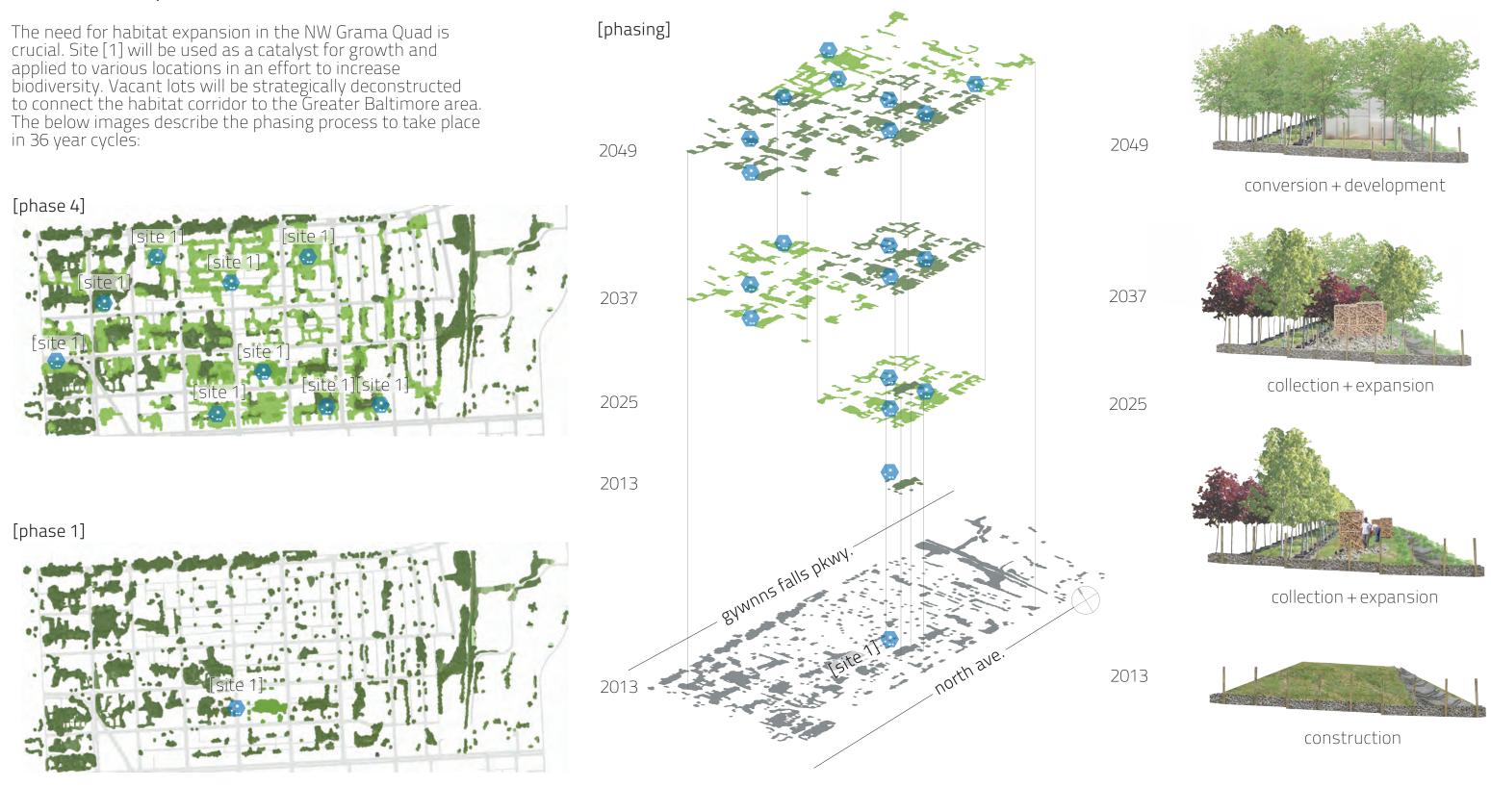


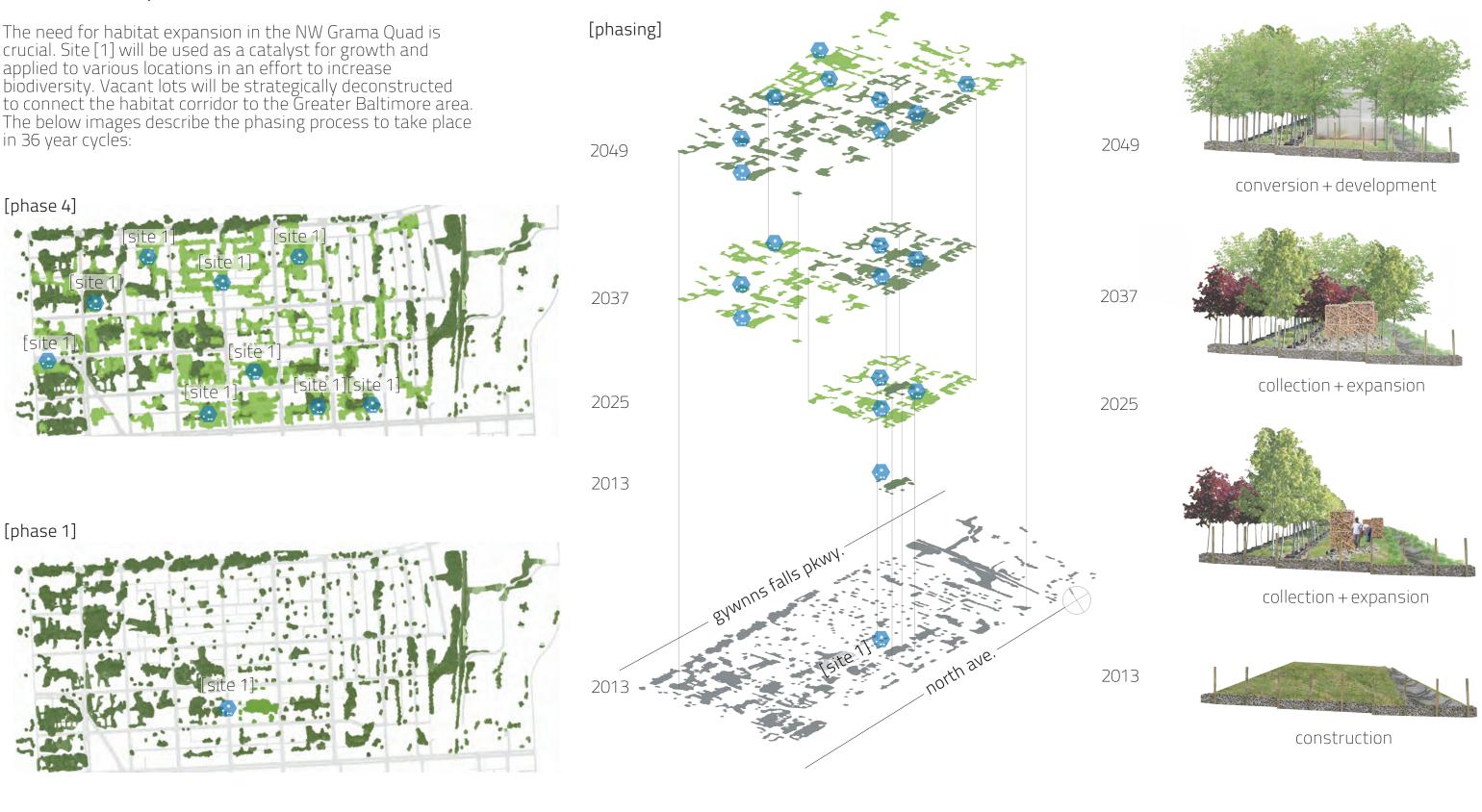
[productivity]

Each of the 11 sites will add value to the NW Grama Quad. The collection sites will experience its largest volume of production during phase 2 and phase 3. The sites will multiply and distribute street trees to nearby business + residential + habitat corridors. In the last phase, sites can be converted for further ecological growth and/or development.



[habitat expansion]







[site 1 variation]

The production of native species and street trees indicates the resurgence of nature through succession. Site [1] will multiply in each phase and serve as an ecological transient connecting habitat to the Greater Baltimore area. Each site will consist of the same integral components but vary in orientation dependent upon a standard suitability analysis.

. collection + expansion [.40 ac.]

1 vr.

2. distribution and education [.27 ac.]

size

2″x4″

sheet

whole

3 cu. yds.

3 cu. yds.

3 cu. yds.

3 cu. yds.

3. warehouse + production [.61 ac.]

concrete

brick

mixed rubble

asphalt roofing

wood

drywall

textiles cardboard

metals plastics

sapling

cost

\$3.00

cost

\$2.00 \$5.00

\$0.10 \$20.00

\$15.00

\$5.00

\$5.00

[tree nursery]

[cost estimates]

little leaf

linden

lumber

bricks

concrete

dirt fill

asphalt fill

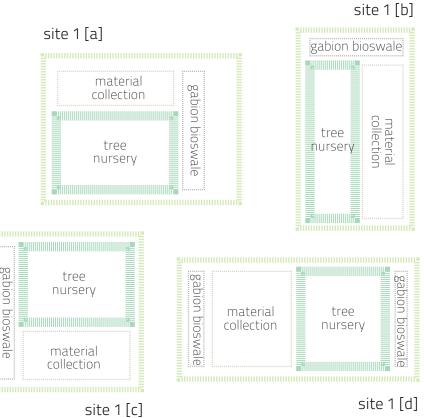
[debris quantity]

reuse potential

[epa]

5-5

- 1. Gabion bioswale systems must be established to address 90% of stormwater runoff + pollutants on-site
- 2. Gabion walls will provide security and relief for visitors
- 3. Street tree nurseries and hoop houses will increase habitat
- 4. Each site shall temporarily collect materials provided by the deconstruction of nearby vacancies to be later transported to Site [3] for repurposing



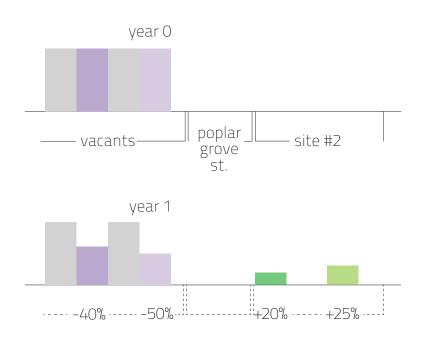
[site 1 plan]

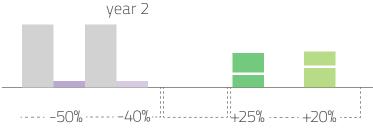


walbrook ave.

[material reclamation]

The deconstruction effort will aim to recycle + reuse 50% of all reclaimed materials. This process will help alleviate building pressure on local landfills and free vital space for non-recyclable items. The materials will be integrated into future construction and development efforts.









During the construction phase, buildings will be covered in plastic sheeting to reduce the amount of dust and potential harmful chemicals from entering the atmosphere.

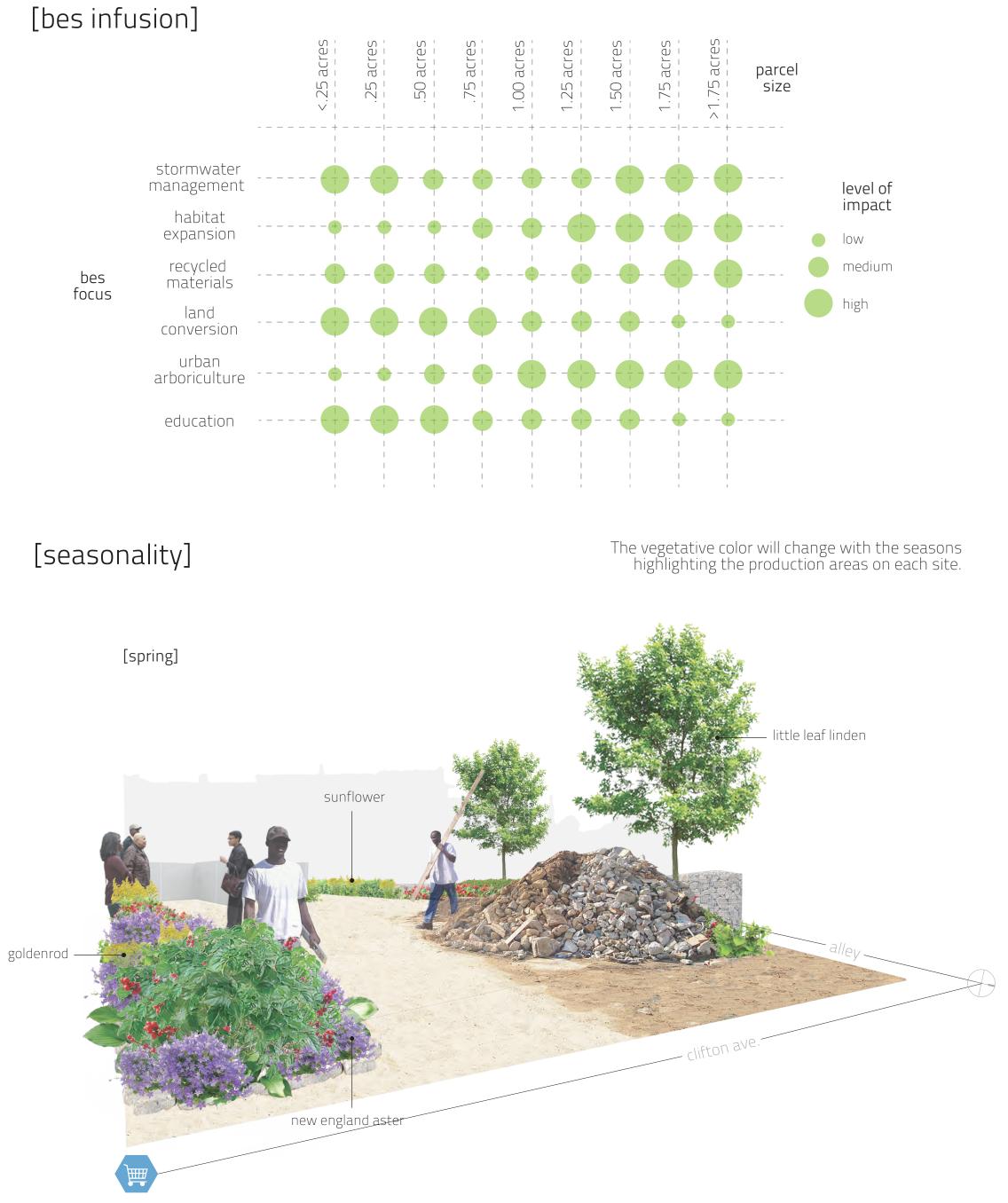
[site 2 plan]

The distribution + education center will be located along a busy corridor on North Ave. An adjacent vacant will converted into offices and a store. All repurposed and recycled materials collected from site [1] + site [3] will be sold to the city and residents.

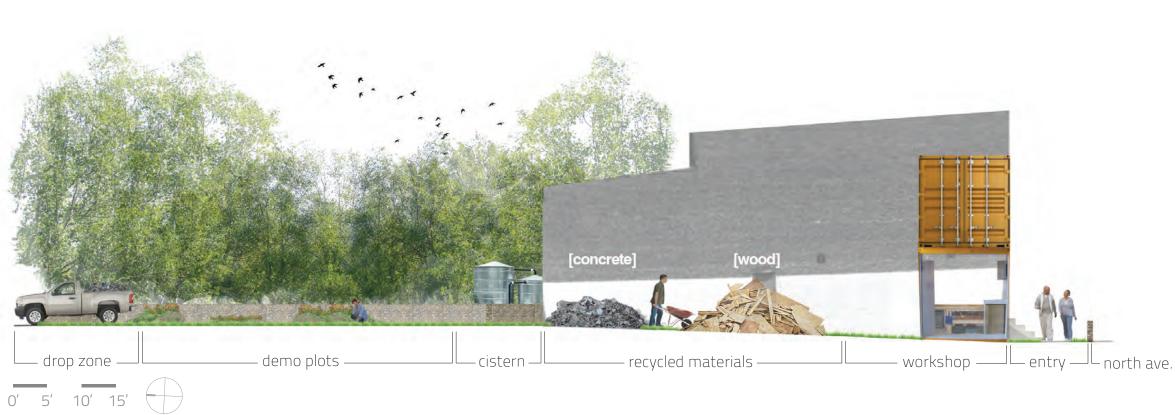


[human habitat connection]











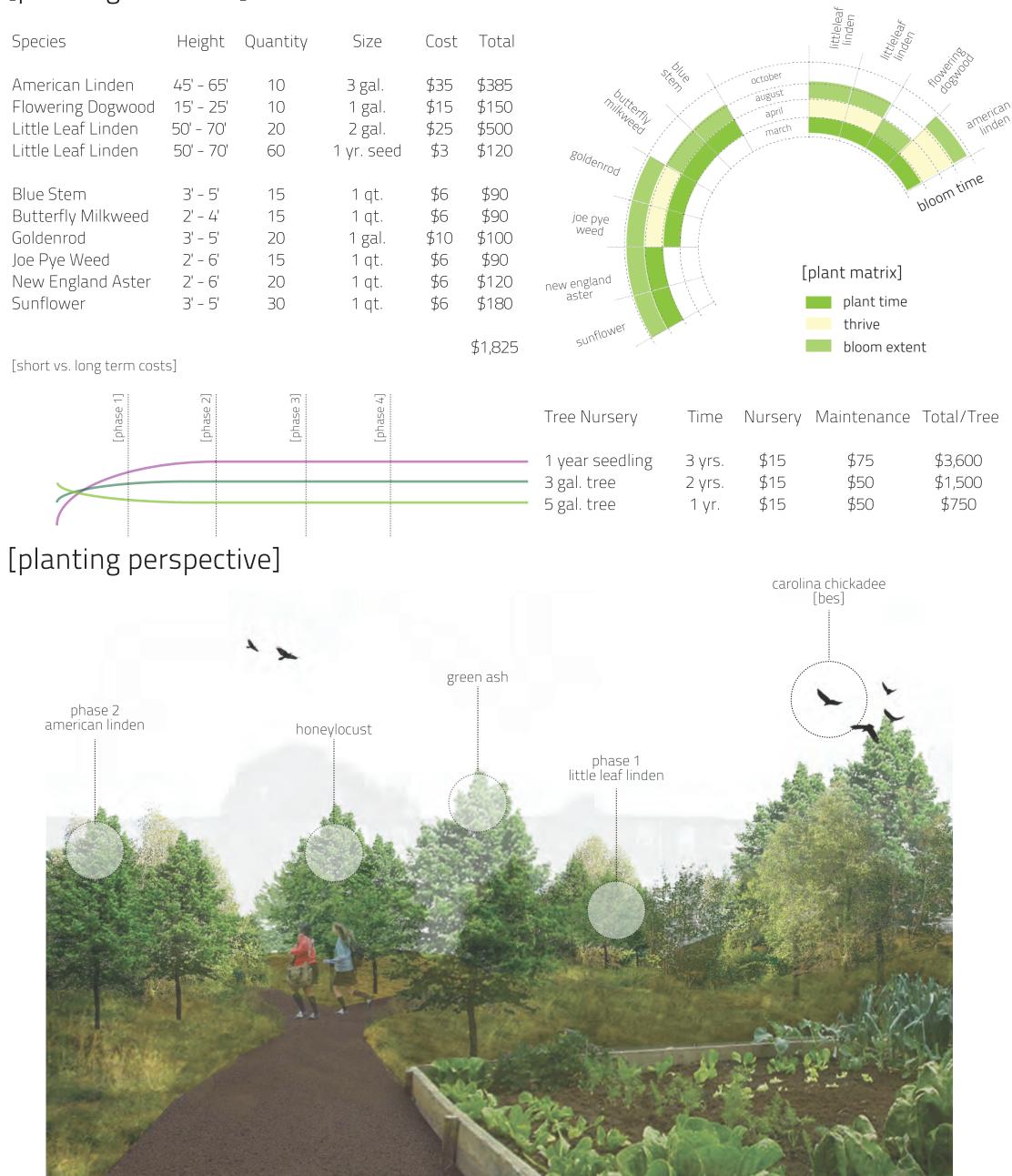
[the urban operative] renovating baltimore's vacants





michelle zucker

[planting schedule]



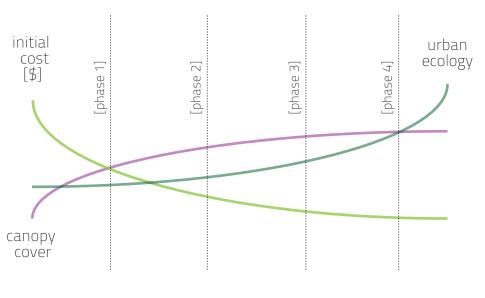
[pot-in-pot]

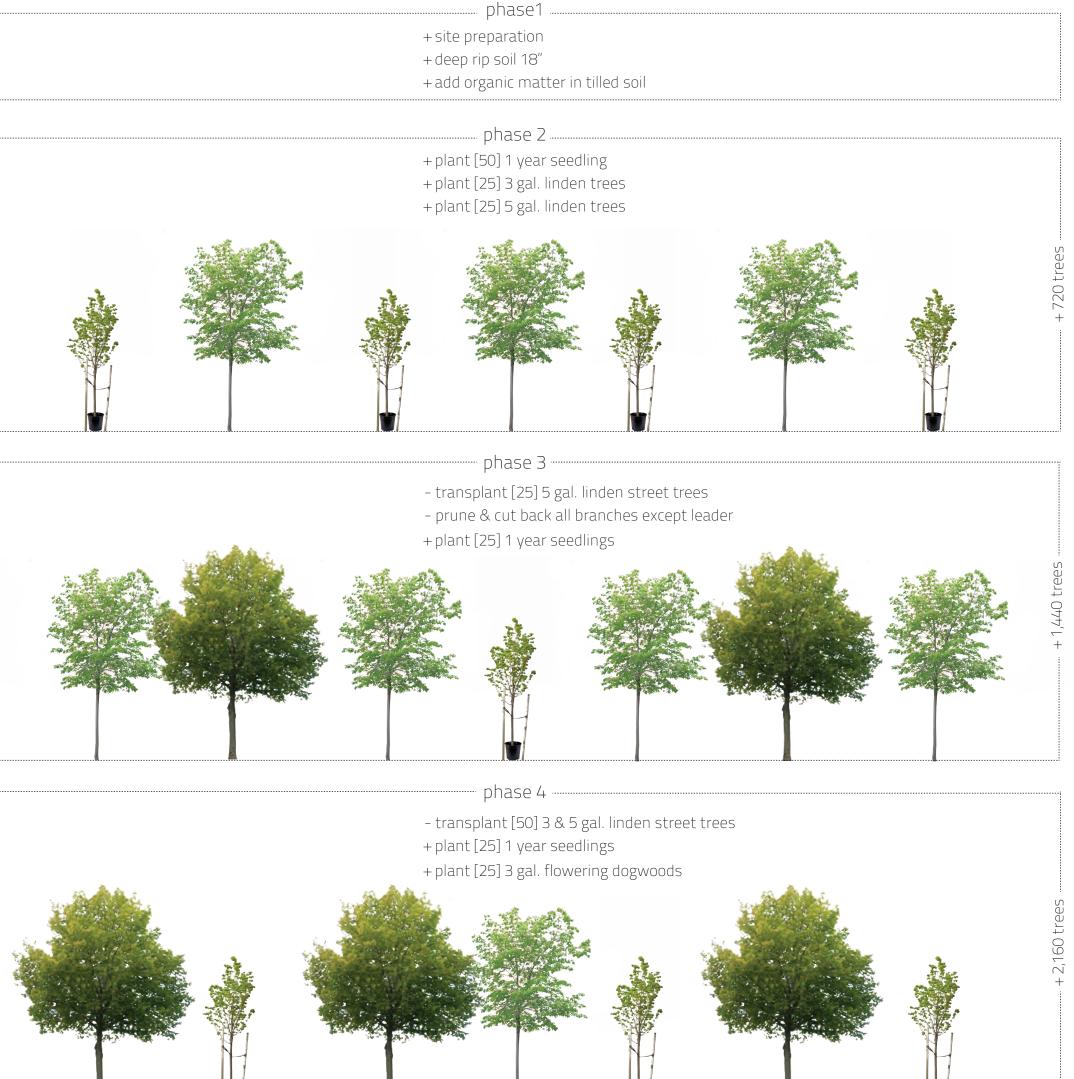
Pot -in -pot planting is the ideal solution for street tree planting in the NW Grama Quad. The duel pot system allows for easy tree extraction during any season with root protection + minimal soil loss. + 3 gal. & 5 gal. linden + pot-in-pot planting + canopy: 6' - 10' + \$35 per tree + asymmetrical shape + 10 gal. linden + pot-in-pot planting + canopy: 15 - 25' + \$120 per tree little leaf linden + bird nesting + sensitive to salt grade + 25 gal. linden growing pot + street tree planting + canopy: 30′ – 40′ in ground pot + mature air pocket + asymmetrical shape 6" gravel + provides shade 3" drainage pipe + needs to be replaced in 36 yrs.

The Little Leaf Linden will make up the 92 % of the street trees in the NW Grama Quad due to its rapid growth rate, aesthetic appeal and pollinator attraction.

[planting cycle]

The first phase of the initial planting cycle should have a rich diversity in age between species. The 36 year cycle will allow for each street tree to be replaced at the completion of one full cycle while maintaining the suggested 40% canopy cover. A successful cycle will create + foster a self regulating ecosystem with the gradual introduction of native species. After the completion of phase two, a select grouping of trees may remain on site to begin the transition into future development.

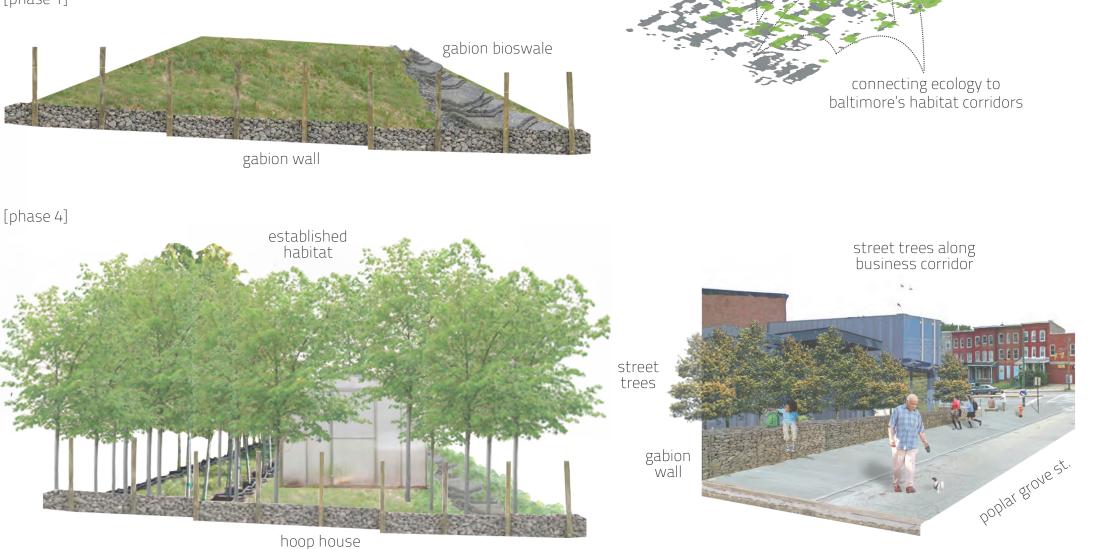


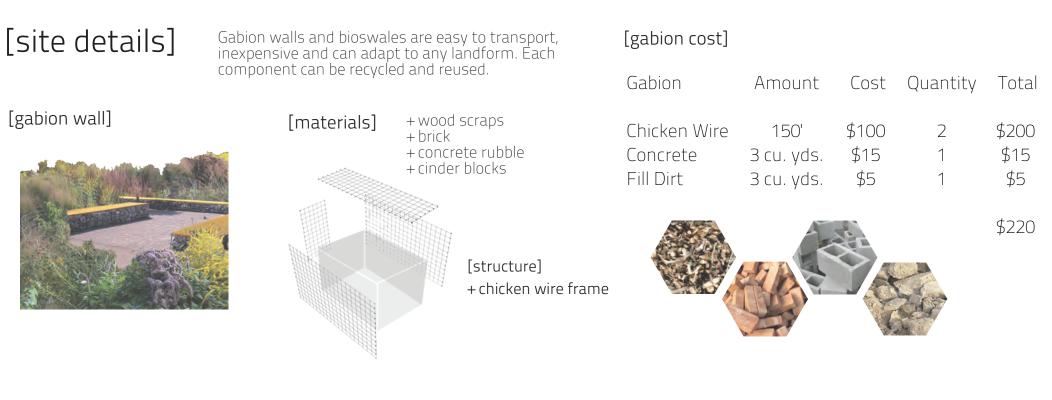


[greening]

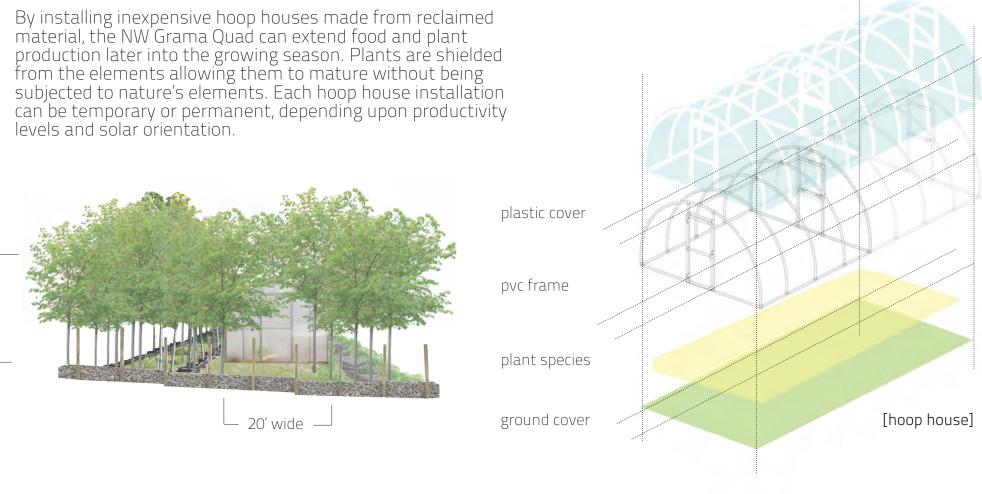
Trees will help to stimulate economic growth, reduce the amount of stormwater, improve air quality, reduce cooling and heating costs, and lastly increase property values. The City of Baltimore will be able to double the tree canopy from 20-40% due to the street tree nursery planted on the western edge of the site.

[phase 1]





[hoop house]



[safety]





A major concern of the BOS is safety. Flood lights and gabion walls have been added to all sites for security. Each site has two main entrances which are not readily accessible at all hours.

