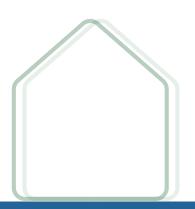
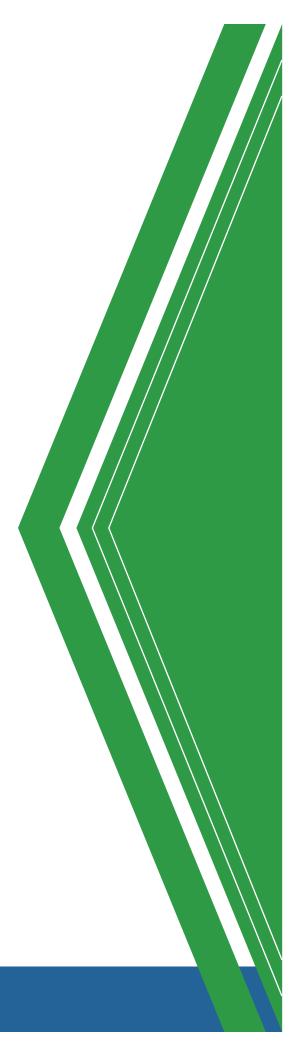
# Designing distinctive communities in DeForest

Landscape Architecture 351: Housing and Urban Design

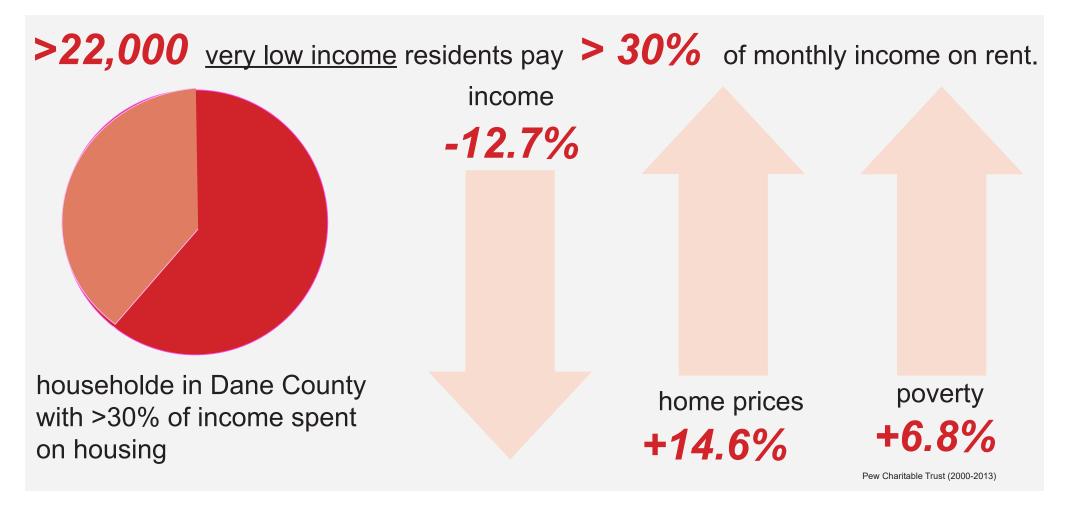








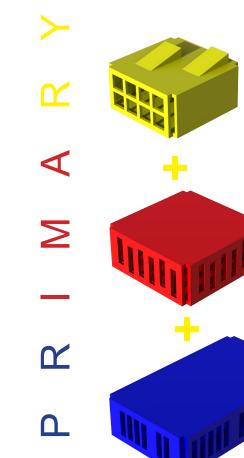
## **CONTEXT & ANALYSIS**



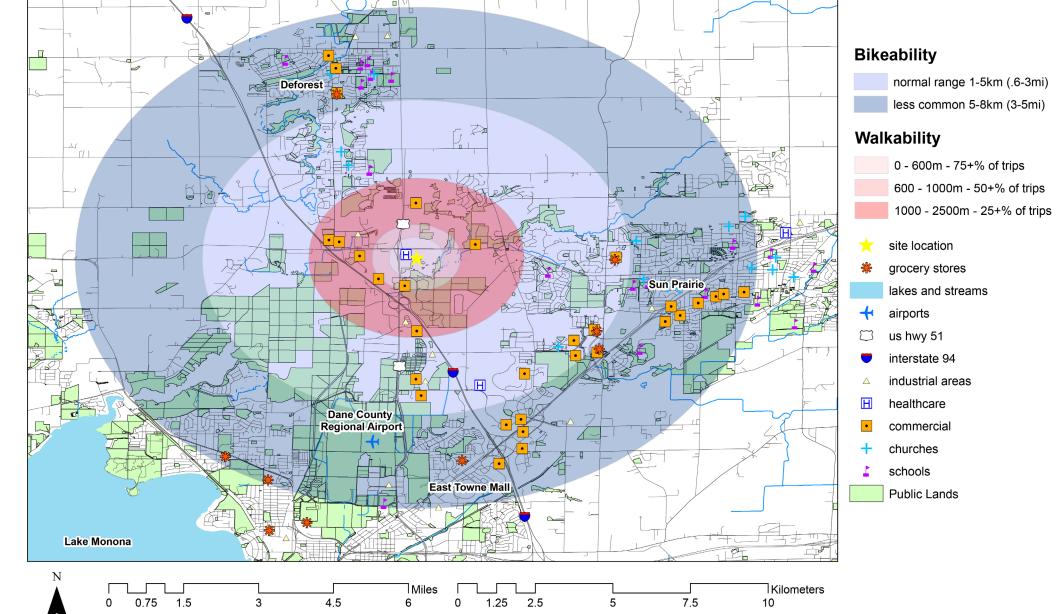
Dane County is facing a housing crisis. Income has decreased while housing costs and poverty have increased and vacancy rates are at an all time low. Affordable housing is in desperate need. <sup>1</sup>

### UNIFY

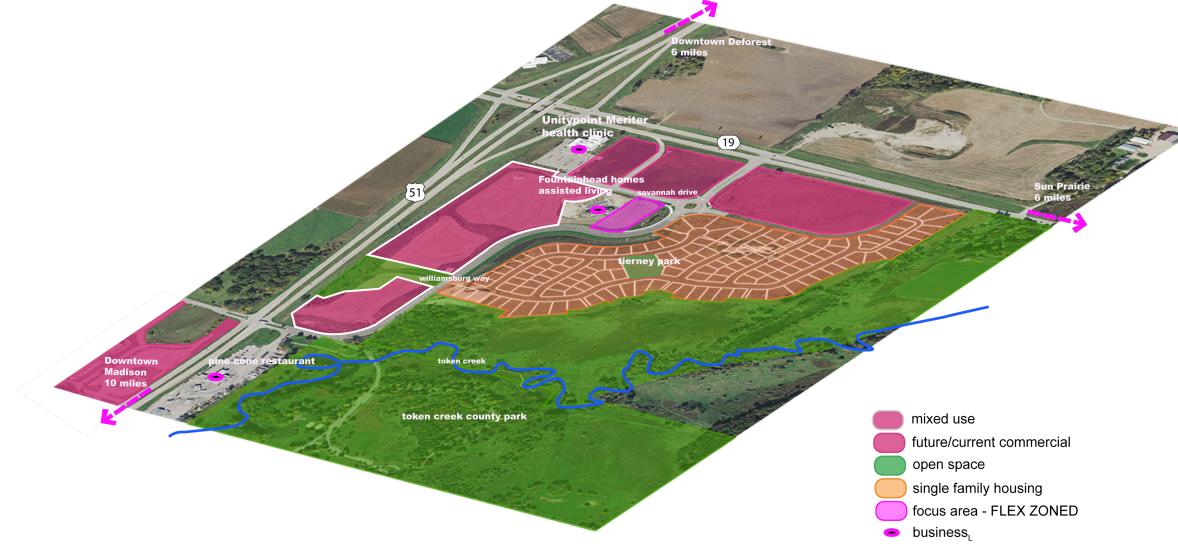
### CARBICRETE MODULAR UNITS



11 - 625 square foot one bedroom



#### SITE CONTEXT AND ZONING



#### SITE PLAN



PERSPECTIVES



apartments, ztop floor skylights

- 10 900 square foot two bedroom apartments
- 15 1,500 square foot three bedroom apartments



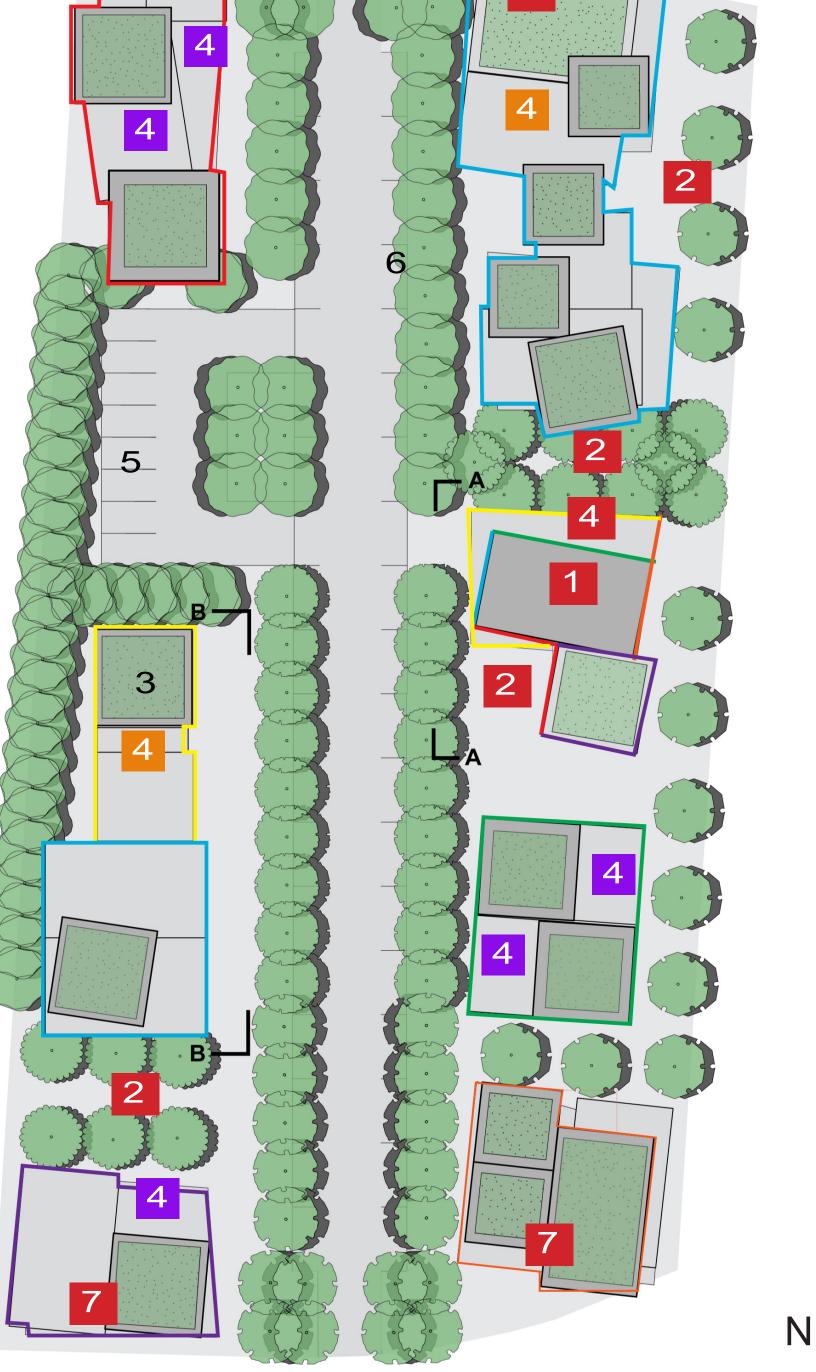
Modules are combined to form secondary apartment clusters.

### CONCEPT STATEMENT

To make whole, to become united. Modular units unite to create an affordable, vibrant, unique community. Color is used to communicate this idea in the landscape and give cluster, and the unified whole, identity.

### LAND CHANGE STATISTICS

Land Use (% of total)



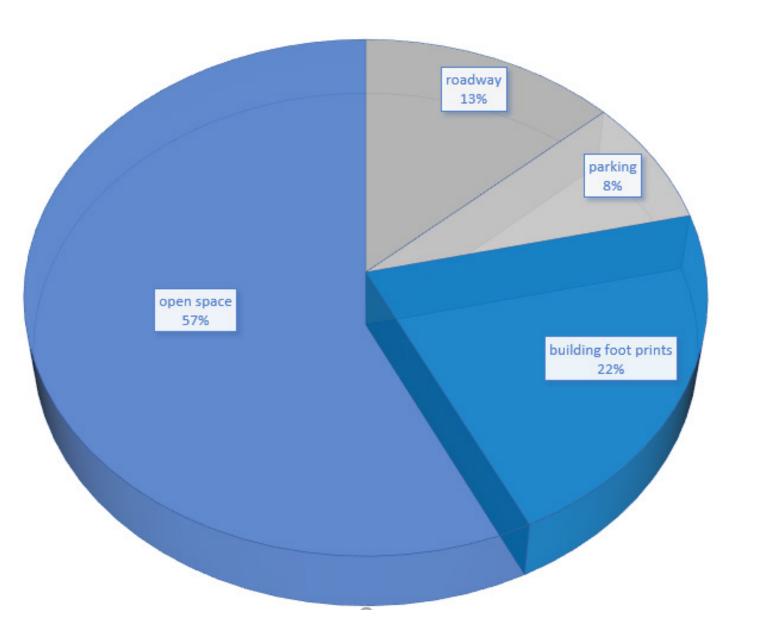
1 community center

program elements

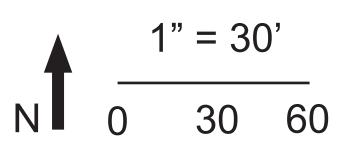
- 2 plaza/open space
- 3 extensive green roof
- 4 intensive green roof
- 5 off street parking & rideshare
- 6 on street parking
- 7 flex space 1st floor
- primary space (public)
- secondary space (semi-private)
  tertiary space (private)

South into the site

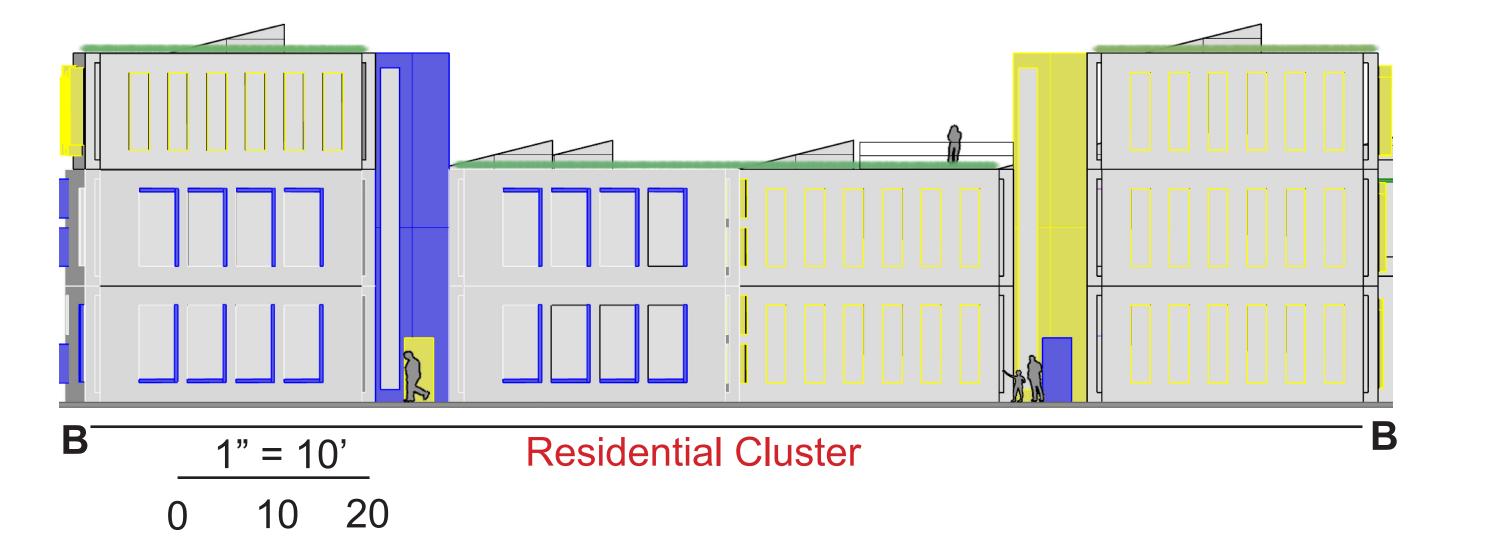




total parking - 48 spaces 48,527 ft<sup>3</sup> of built floor space 10,152 ft of flex space - commercial, community, or residential use



From off street parking to community center





### Micro-Community of Deforest LA 351 Housing and Urban Design 3/14/18 Site 1



Problem: Large increases in population in the Deforest area, due to its proximity to Madison, have created a need for affordable housing. Site 1 offers a potential location for development of this housing, and has been deemed suitable for low income housing financing by UW Real Estate students. This phase of the project focuses on development of program elements and final design of the site.



### Analysis

### **Program Elements**

Key

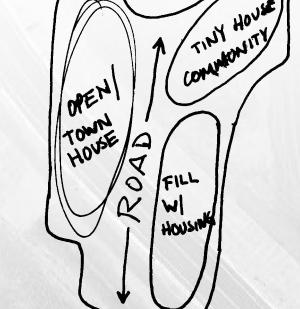
#### **Opportunities** + Blank slate lot

+ Dahl park next door + Nearby soccer fields, conservatory +15 miles from Madison +2 blocks from Deforest Schools

#### Constraints

- Surrounded by suburbs/ farm
- Drainage runs through site
- Close to freeway
- Somewhat poor soils

Community Function as an Ecosystem Generate reusable energy (Solar) Geothermal Heat Capture/ Reuse water locally Community spaces for recreation Gardens for food production Co-op Modern Housing (owner-occupied) Tiny House living options Higher density Townhouses Connected nature and built environment (Dahl Park) Pedestrians are priority



#### Concept 1

This concept explores the dead end road and central organic pond, which could become a swimming area as well as habitat for wildlife Tiny houses are arranged radially off the main road.

#### Concept 2

In this concept the road is looped around the perimeter of the site, along with a path connecting to Dahl Park. The large central area is designated as open space with large canopy trees



Townhomes Efficient space, built for families, 3 bedroom units



Basketball court 2. Path connecting to Dahl Park 3. Guest parking



**Tiny House Communities** (10) Tiny Houses offer a cheaper, more sustainable





LAND USE DATA TABLE		
Dwelling Units (DU)	Single Family	0
	Multi-Family	50
	1-Bedroom	20
	2-Bedroom	16
	3-Bedrooms	14
	Total DU	50
Density	(DU/3.62 Ac)	13.81
Parking	Surface	14
	Garage	50
	Total Parking	64 (1.28 cars/household)
Land Cover	Buildings	30%
	Vehicles	30%
	Open Space	40%



#### About UniverCity Year

UniverCity Year is a three-year partnership between UW-Madison and one community in Wisconsin. The community partner identifies sustainability and livability projects that would benefit from UW-Madison expertise. Faculty from across the university incorporate these projects into their courses with graduate students and upper-level undergraduate students. UniverCity Year staff provide administrative support to faculty, students and the partner community to ensure the collaboration's success. The result is on-the-ground impact and momentum for a community working toward a more sustainable and livable future.

#### UniverCity Alliance

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