



Micro Housing for Homeless and Disabled Veterans

NC STATE Design



MICRO HOUSING FOR HOMELESS AND DISABLED VETERANS

The School of Architecture | NC State University College of Design
The North Carolina Coalition to End Homelessness



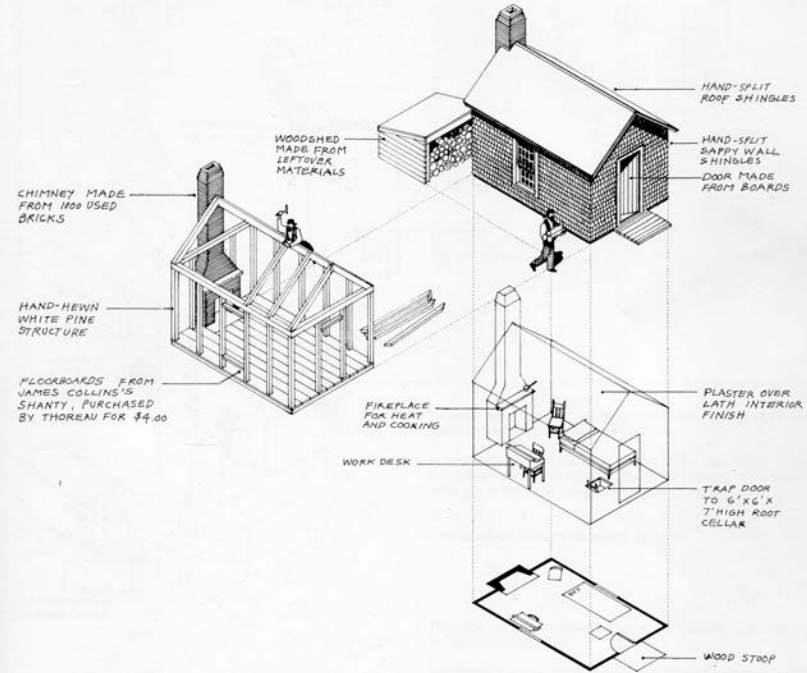




Henry Thoreau's Cabin

15' x 10' plus root cellar and attic
150 square feet

Beginning in late March of 1845, Henry David Thoreau built a tiny house on the shore of Walden Pond in Concord, Massachusetts, at a cost of \$28.12½. He spent two years in this cabin, built with his own hands, while proving his famous experiment—that man could live happily and independently of other men. In his book *Walden*, Thoreau left a complete description of his house (including a materials list, dimensions, building techniques, and cost) that has enabled the reconstruction of many exact replicas by Thoreau admirers.



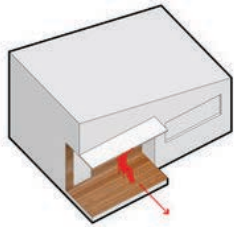
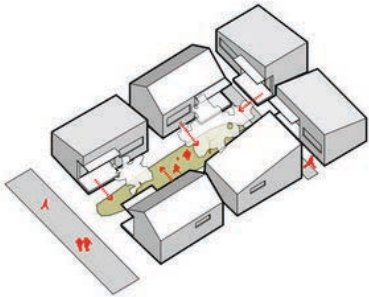












social scale



community



group



individual



VARIETY OF SCALE

Transitional exterior spaces enable one to navigate through varying spatial experiences, from the more secluded porch to the shared courtyard, before reaching the common green.





E Main St

N Blacknall St

N Goley St

S Blacknall St

E Main St

S Goley St

E Main St

Beautiful Beginnings
Child Care

S Blacknall St

Angier Ave

Holcim

S Goley St

Angier Ave

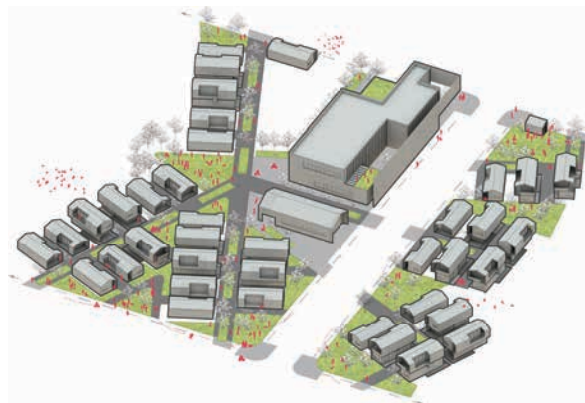
My Taller Auto Repair

S Goley St

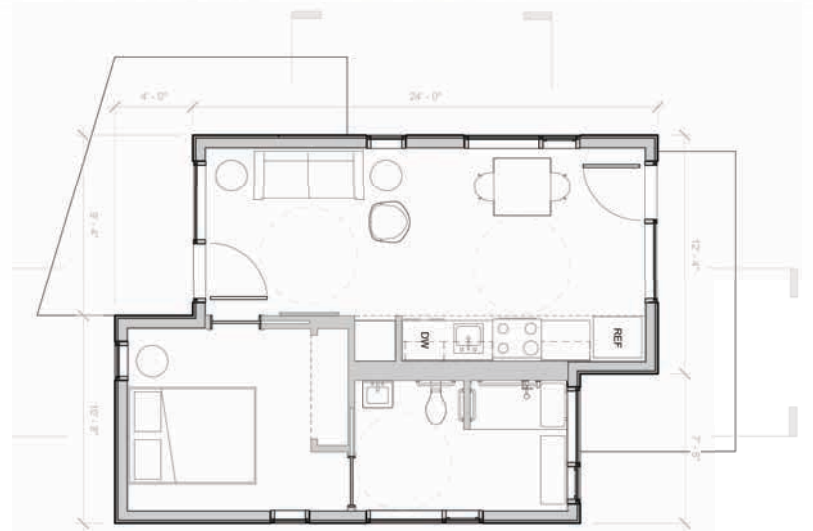
Angier Ave

Young Ave

Google













ROOF OVERHANGS

- shade windows and porch
- reduce cooling costs

GREEN ROOF

- aids in flooding mitigation
- reduces water runoff
- cleans rainwater
- conserves energy

SHARED UTILITY WALL

- fewer exterior walls
- connected 'wet walls'

RAINWATER COLLECTION

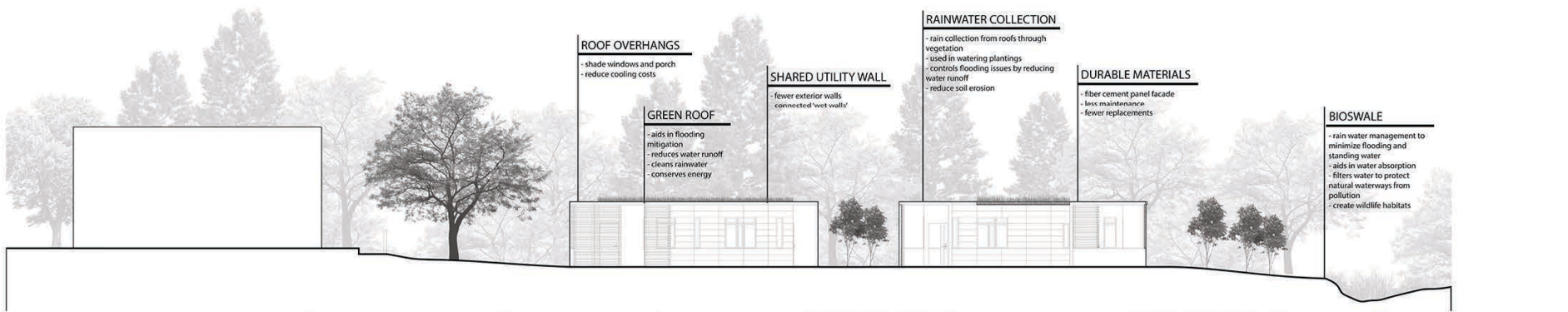
- rain collection from roofs through vegetation
- used in watering plantings
- controls flooding issues by reducing water runoff
- reduce soil erosion

DURABLE MATERIALS

- fiber cement panel facade
- less maintenance
- fewer replacements

BIOSWALE

- rain water management to minimize flooding and standing water
- aids in water absorption
- filters water to protect natural waterways from pollution
- create wildlife habitats





Cybergraph
Advertising, Inc



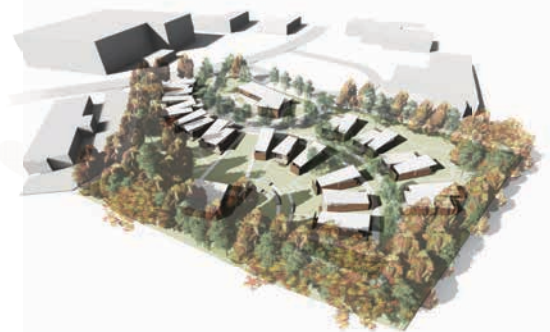
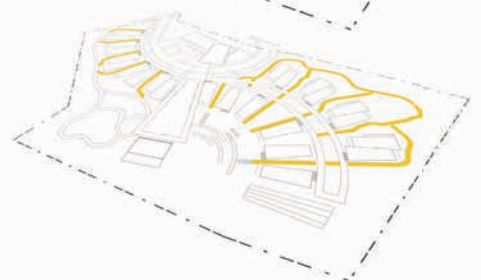
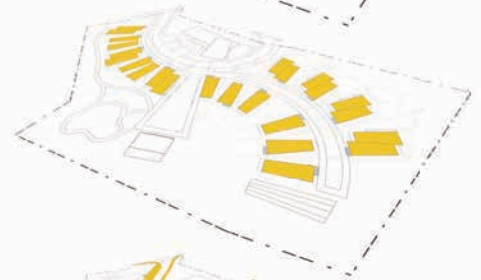
Falstaff Rd

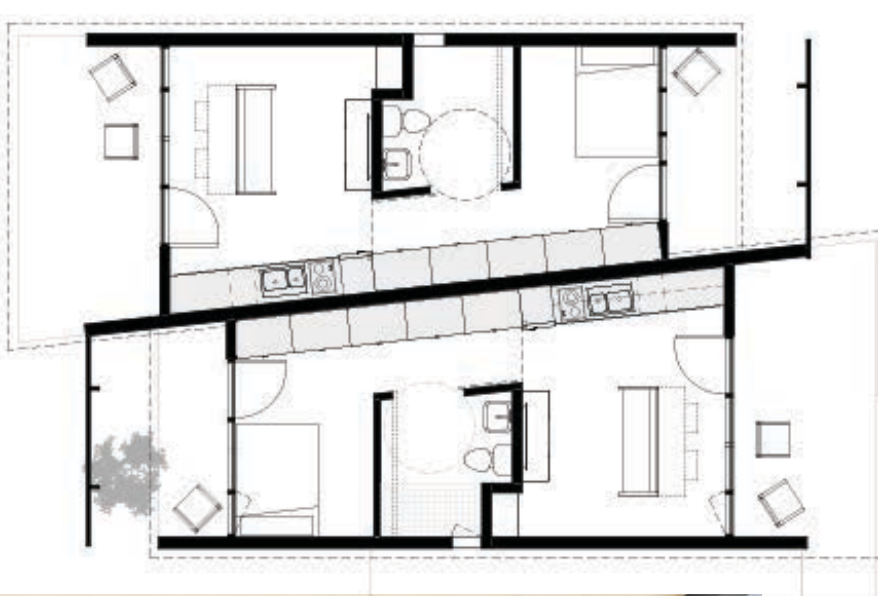
Wake County
Veterans Services



Google

Wake Count





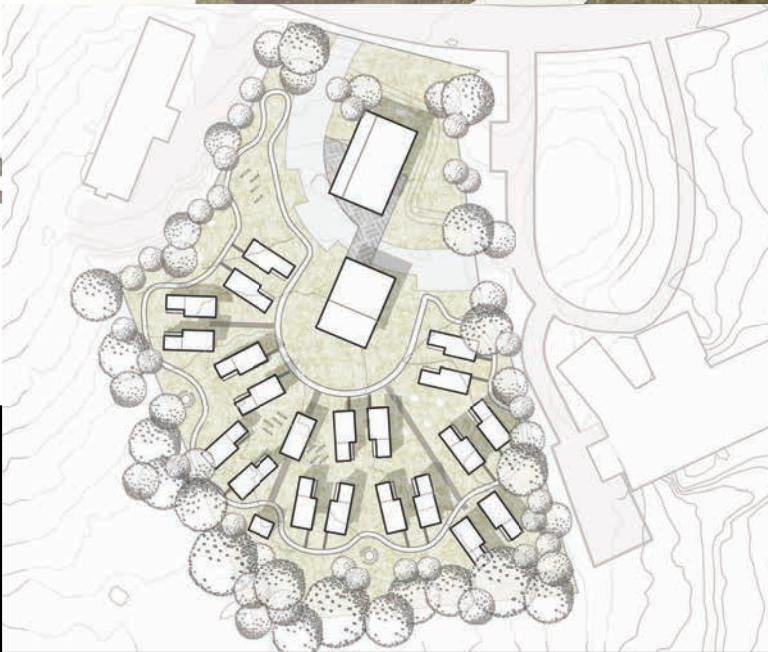


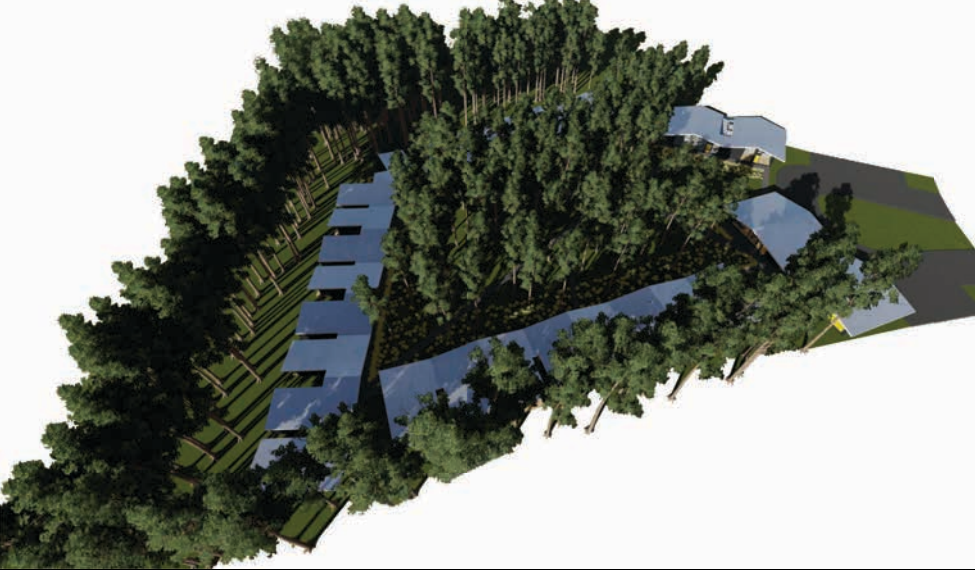


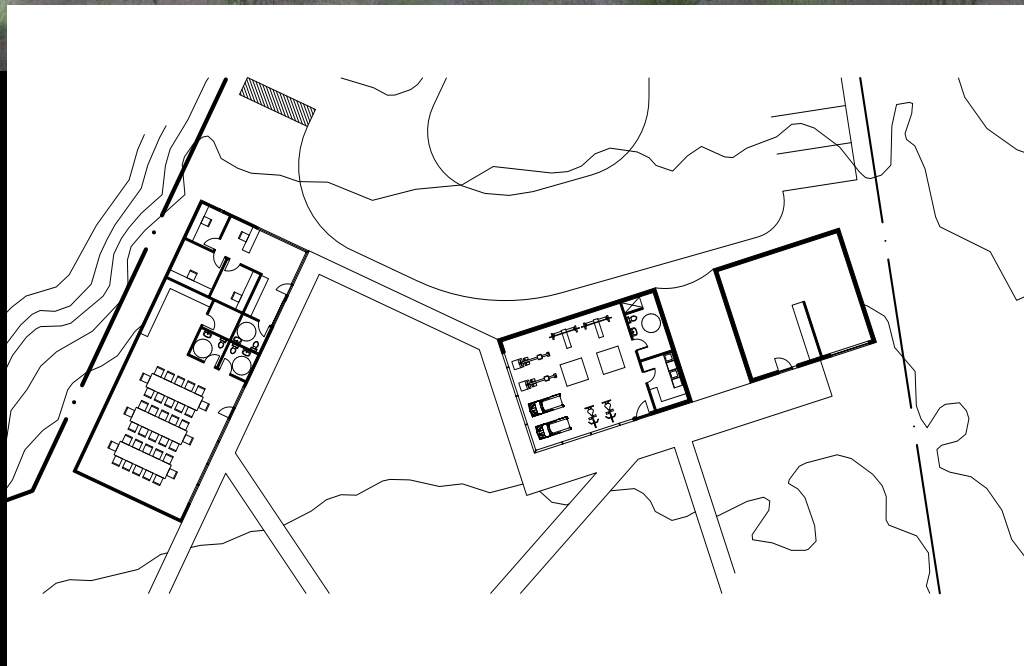


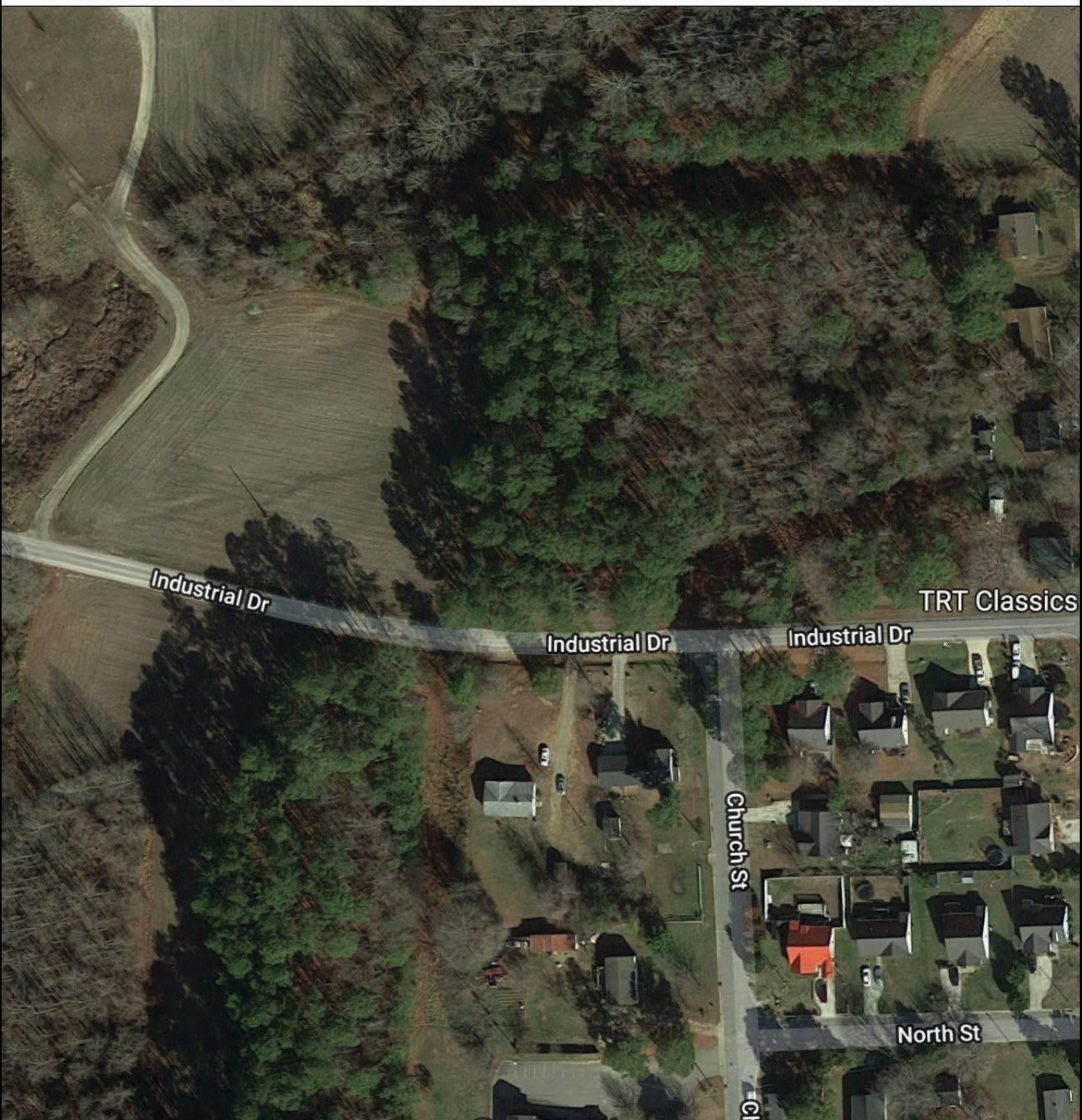












Industrial Dr

TRT Classics

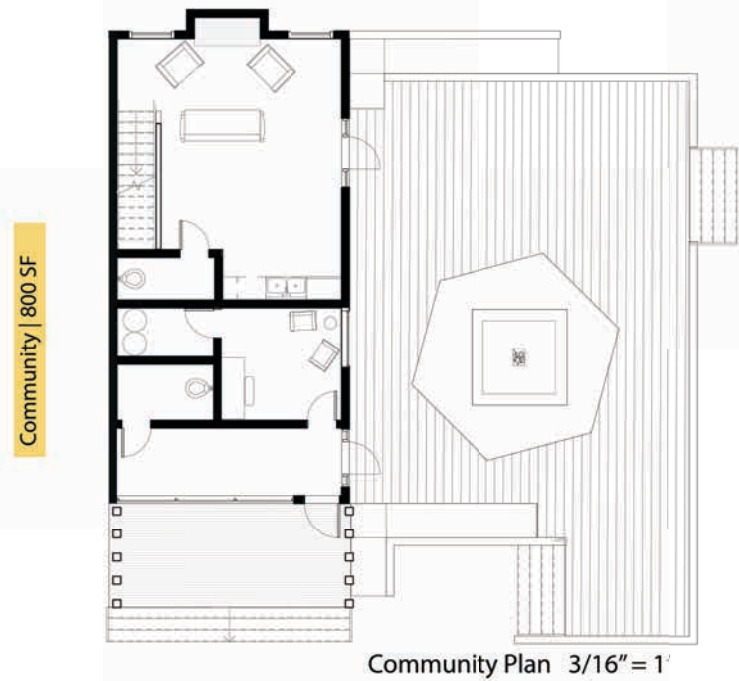
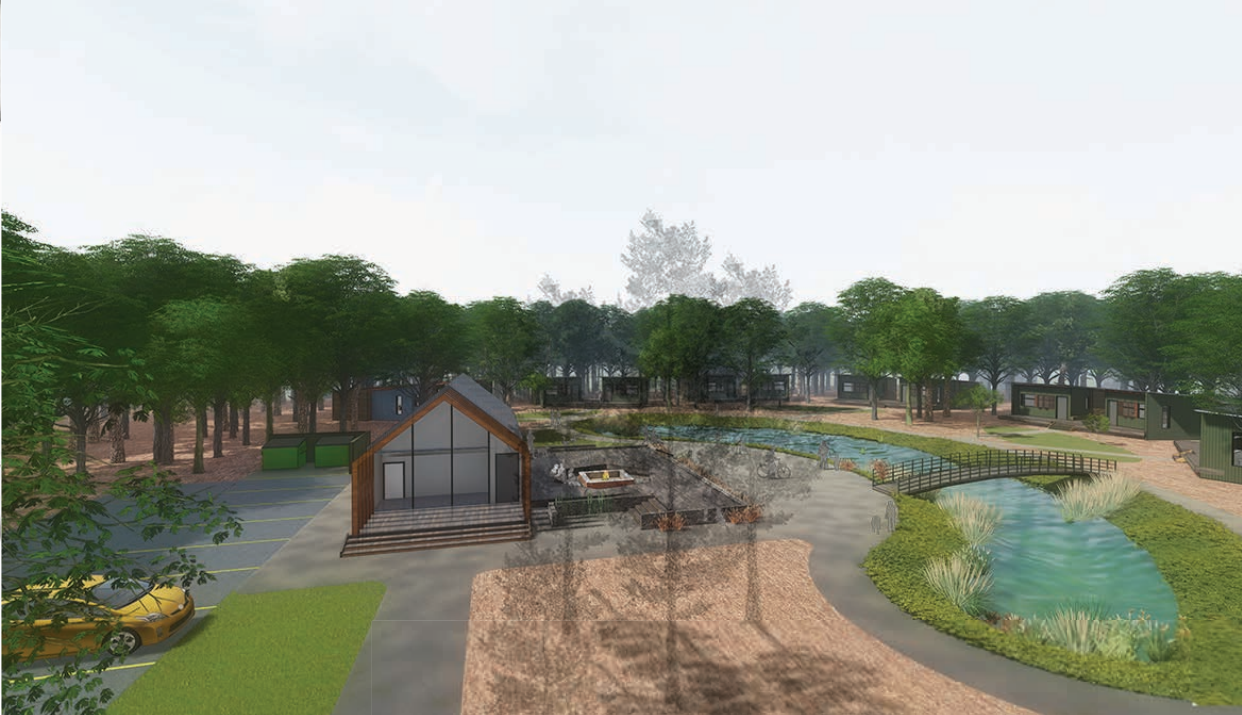
Industrial Dr

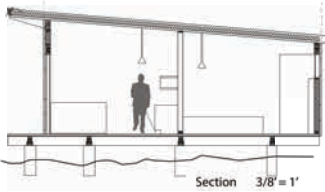
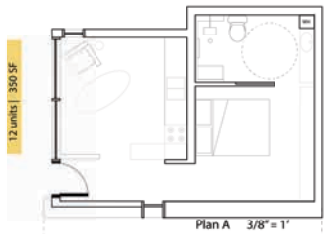
Industrial Dr

Church St

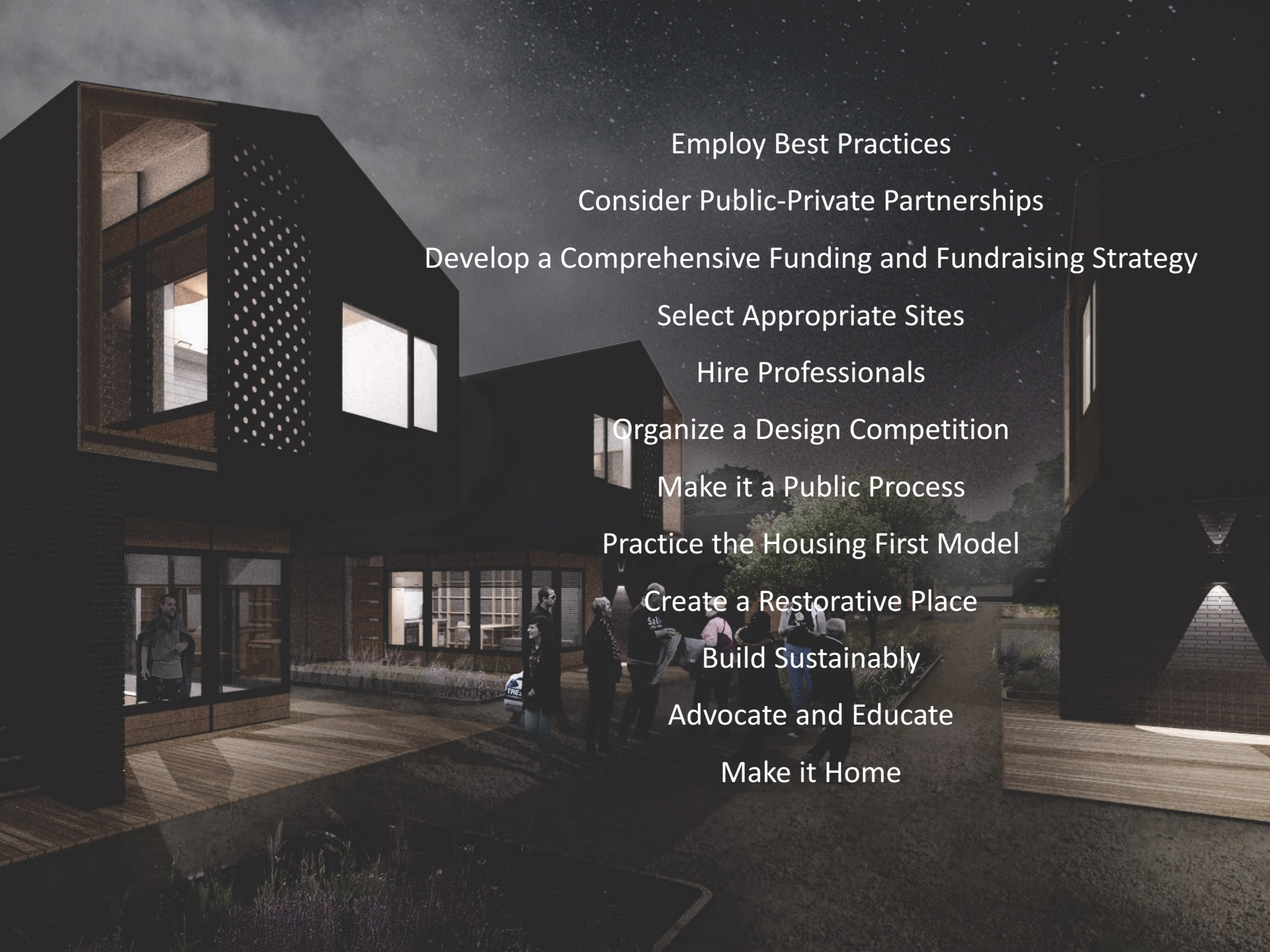
North St

Cl









Employ Best Practices

Consider Public-Private Partnerships

Develop a Comprehensive Funding and Fundraising Strategy

Select Appropriate Sites

Hire Professionals

Organize a Design Competition

Make it a Public Process

Practice the Housing First Model

Create a Restorative Place

Build Sustainably

Advocate and Educate

Make it Home



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Affordable Housing and Sustainable Communities Initiative

<https://design.ncsu.edu/ah+sc/>