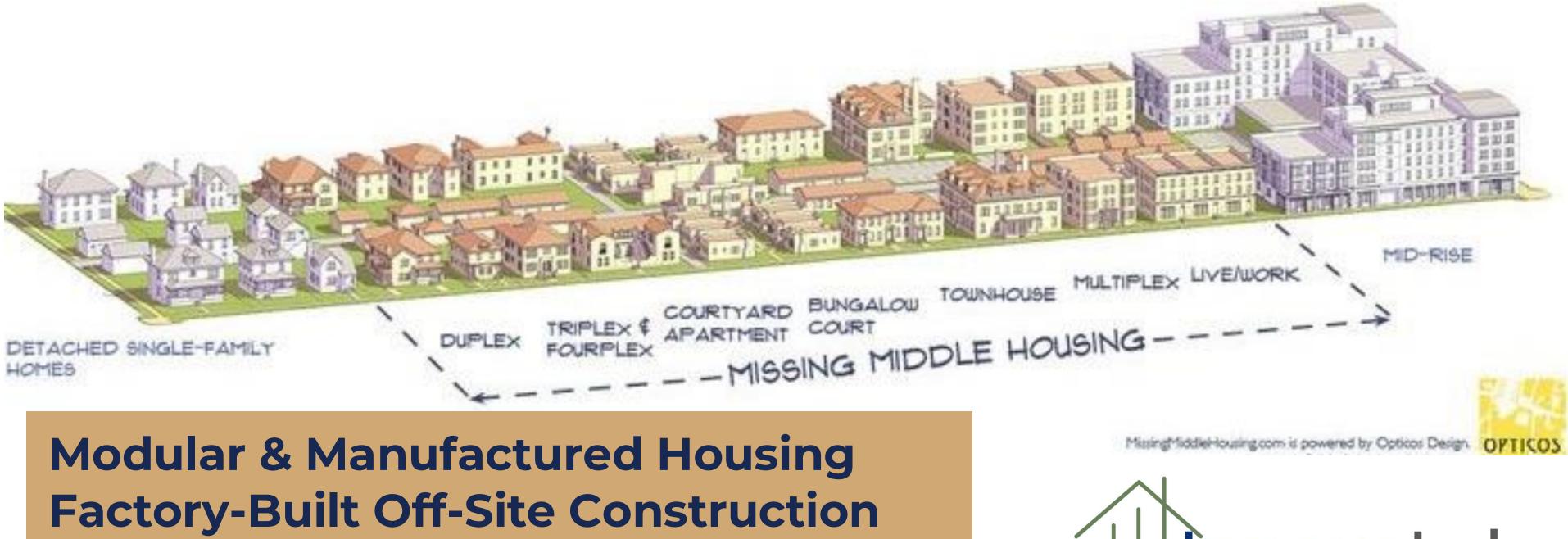
MODULAR & MANUFACTURED HOUSING CONSTRUCTION



Tamara Sullivan, COO, InnovaLab Ohio www.innovalabdevelopment.com





A Solution to Easing Supply Crisis

Modular

- Built to International Building Code, state, local codes •
- Homes are built in sections to 80-90 % completion • Transported to the site, installed or set with a crane on a traditional crawl space or basement foundation
- All styles of single and multi-family housing can be built • with modular boxes

Manufactured

- local building codes.

Innovalab CREATIVE HOUSING SOLUTIONS

Built to code set by the **U.S. Department of Housing** and Urban Development (HUD)

• A steel frame home installed on a cement pad or crawl space using either block or cement piers.

These homes are, a national standard that overrides all





01

ADVANTAGES

- Precision engineering & craftsmanship.
- Solution to workforce issues in construction trades.
- Maximize multi-family zoning with modular housing solutions.
- Overcome traditional challenges of urban infill construction.
- Up to 10% cost savings and time savings, which also saves cost.

02

CHALLENGES

- Need to overcome the stigma or image problem for factorybuilt housing.
- Building plan approval process for modular at the state level in Ohio.
- Financing barriers
- Need to alleviate zoning and building code regulations to build more off-site construction.



- **MODULAR DEVELOPMENT Quality Control** Stronger, More Durable Construction
- - Construction Speed
 - **Energy Efficiency**
 - Less Waste
 - Neighborhood Friendly
 - Extended Warranty Replicability





more challenging to urban infill.

NEIGHBORHOOD FRIENDLY

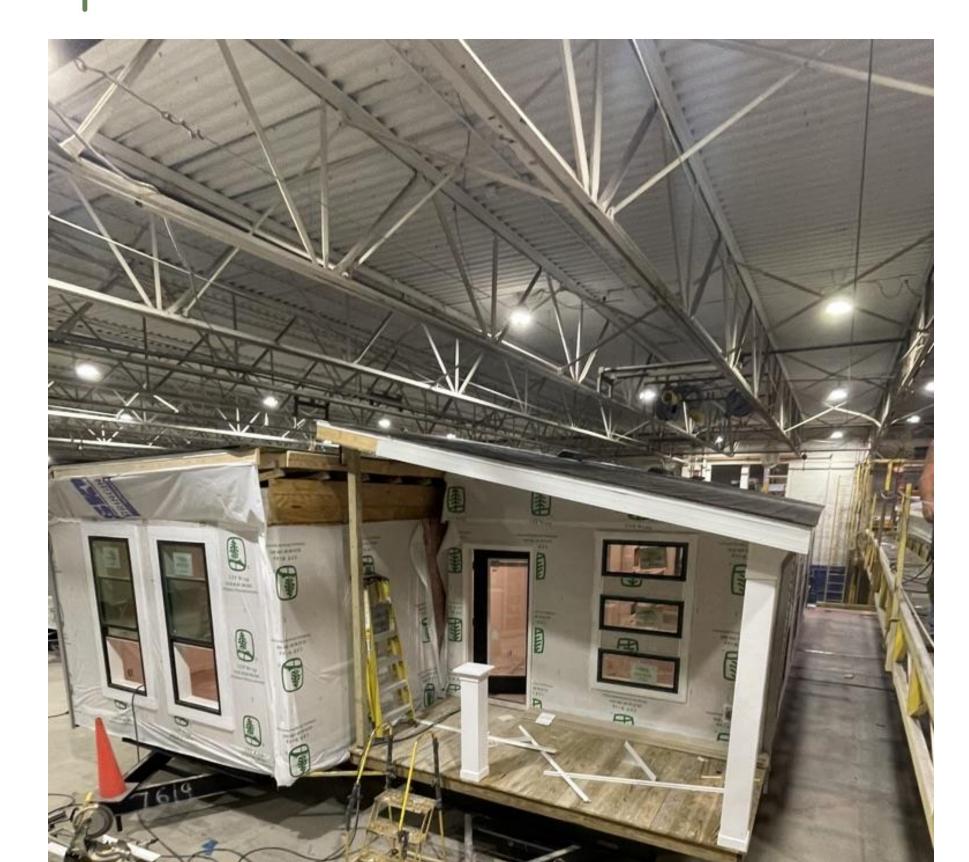
Specializing in urban infill projects where homes are right next to each other, an InnovaLab home is set on the foundation in one day and finished in no more than 60 days.

There is no environment traditional construction than

Existing Designs

Single and multi-family home designs drawn and engineered provide a high degree of replicability to quickly deliver a volume of much-needed attainable, workforce housing.





Time is Money

CONS SCHE

Pre-Dev Permitti Architec Site Prep Unit Cor

On-site

Total Pr

STRUCTION EDULE	
velopment, ting & cture	TBD
ep during Modular Instruction	3 months
Finish work	2 months
roject Time	5 months





The Mills of Carthage

- family homes.

St. Ambrose in Evanston

- many others.

• Began in 2002 with a showcase of nine HUD-coded manufactured homes and six modular homes.

• The Mills were completed in 2005 resulting in 57 affordable single-

• Situated on four streets Fairpark Ave., West 66th Street, Van Kirk Ave. and Redeagle Way.

• Located at the site of the former St. Leger Apartments, Model Group developed the site in partnership with the City of Cincinnati, the Port and

• Ribbon cutting on 26 units, including 1- and 2-bedroom apartments and 3bedroom townhomes was held in 2014



Development of Duplexes & Triplexes in Flint, MI Set Day in June 2024





Why Scale Modular Construction Now?



Experienced set crew is worth their weight in gold.











THE CORNER

- Completed in 2019 in Detroit, Michigan
- delivered to the site with interiors fully complete.

• This project leveraged innovations in modular construction. The units were manufactured in a controlled environment and

• The use of modular design and construction reduces construction time, hazards and logistics challenges.



Gilbert Family Foundation Tomorrow's Housing Innovation Showcase

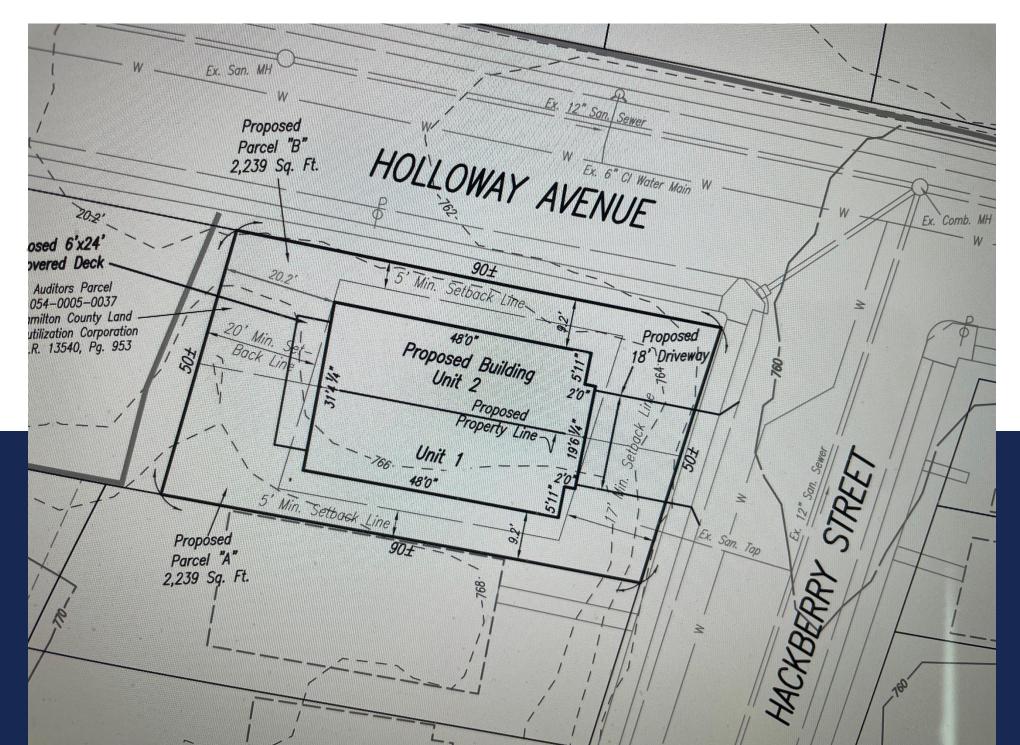
The Future. In February, the Gilbert Foundation announced a special development project of seven factory-built homes, being built in partnership with the North Corktown Neighborhood Association, near Detroit. After a competitive process, InnovaLab was selected to serve as the modular contractor and GC for the homes, which represent six different factories.







EVANSTON TOWNHOMES Proof of Concept 3331 Hackberry Street



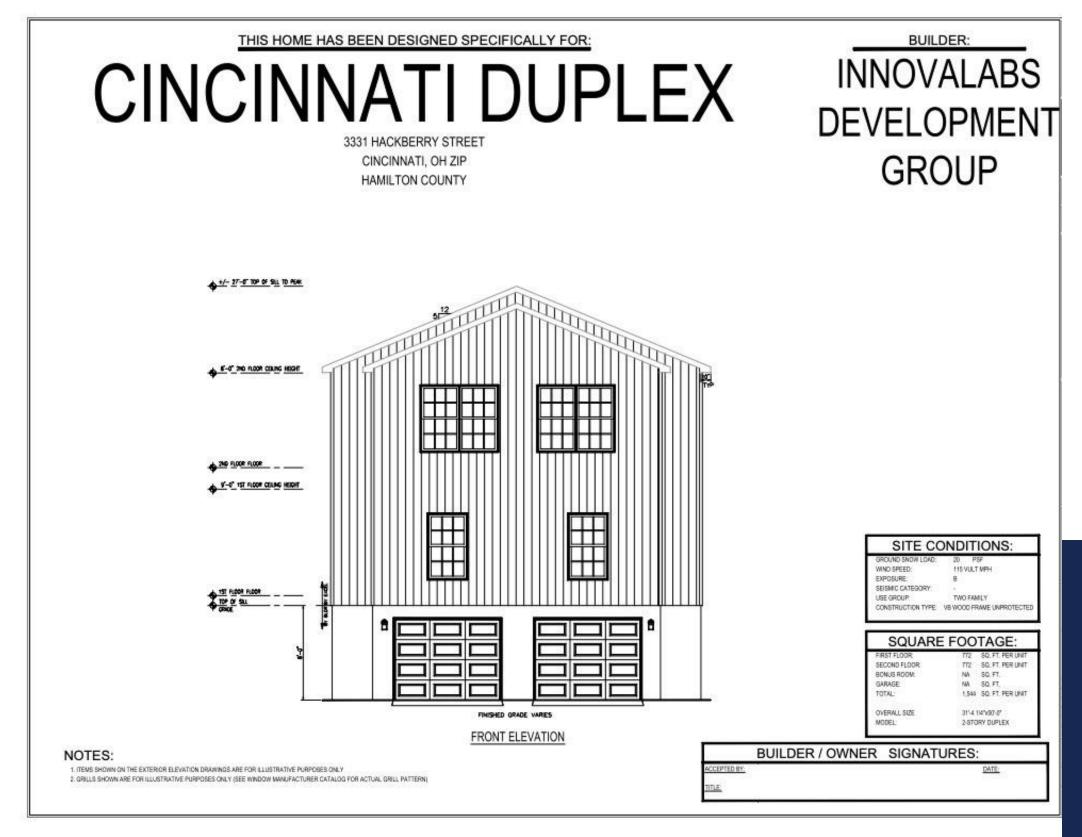
LANDBANK LOT MINOR SUBDIVISION

MODEL SELECTION TO SUIT MARKET NEEDS

ELEVATION TO MATCH HISTORIC NEIGHBORHOOD SITE PLAN



EVANSTON TOWNHOMES



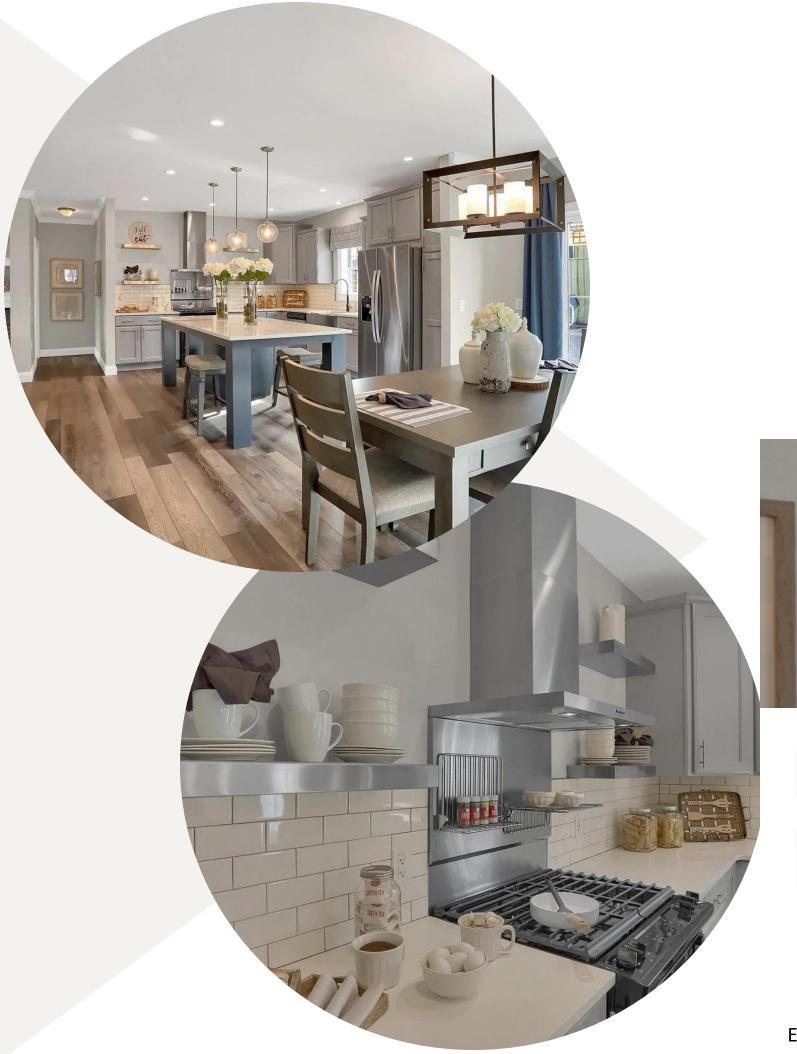
3 BR, 2.5 BA 1,550 sf @ \$120 sf delivered

OPEN FLOOR PLAN

1-CAR GARAGE

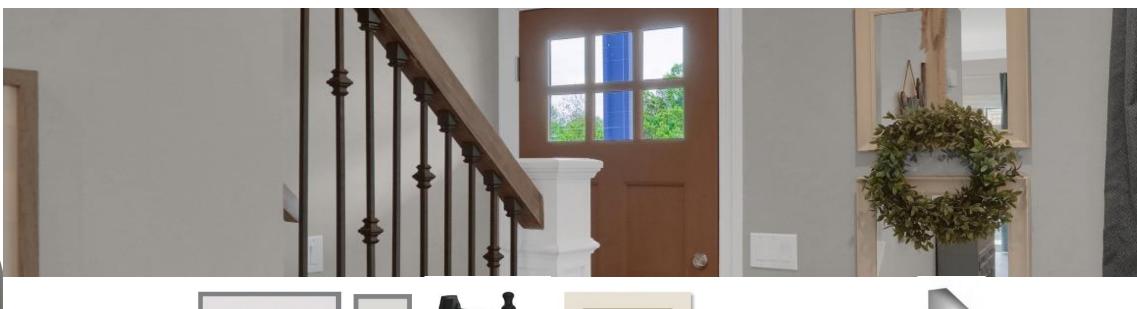
FRONT DOOR PORCH

BACK PATIO & GREEN SPACE





EVANSTON TOWNHOMES MODERN AMENITIES MODERN STYLE









SP122



Exterior Hardware

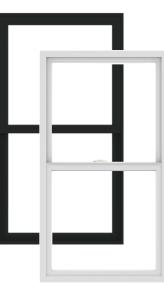
SL140





Interior Hardware





Windows

1x6 Base Trim



1x4 Casing with Bead

Interior Doors



Duplex, Triplex, Townhomes & Rowhomes

A model for every community.

- methods.
- Connected Communities zoning reform



Built and completed in a factory to adhere to state/local residential building codes (often exceeding fire, safety requirements) Built in less time and with less cost than traditional building

Urban infill models are ideally suited for City of Cincinnati's





Energy Efficiency

All models are energyefficient and include Energy Star appliances, vinyl double-hung windows and LED lighting. Options to upgrade to make homes Zero Energy Ready are now available.



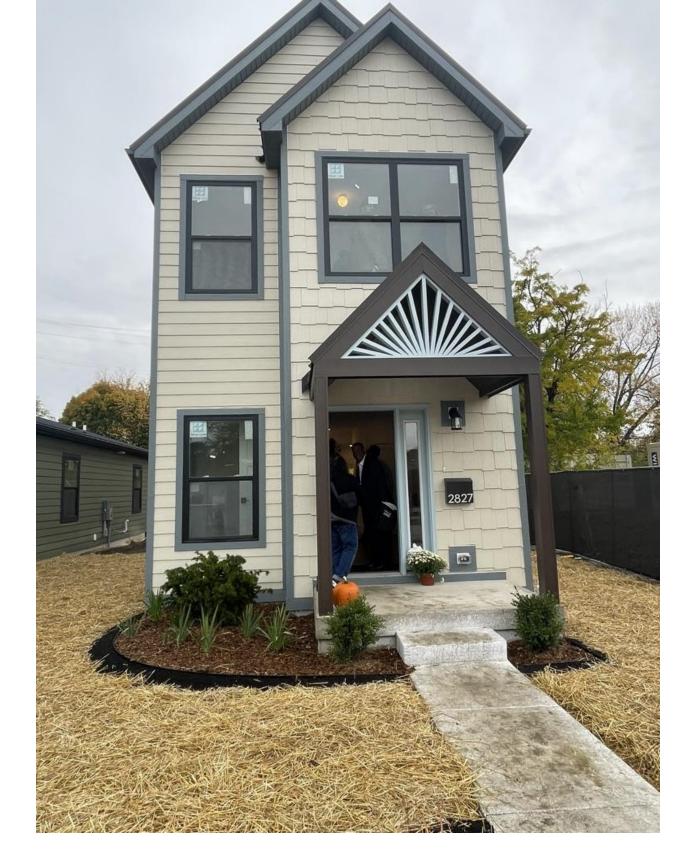
What's next? A Vision for Our Region

Rather than being a region, state where innovative building methods, such as modular off-site construction, are so challenging, let's become the leader!!! Michigan has shown us the modular building process makes urban infill projects financially viable as the path to revitalizing neighborhoods and increasing density.

Like Michigan, create a pattern book of creative urban infill and multi-family designs that can be built in Ohio. Building a portfolio of homes that are already approved with State of Ohio stamp to be built anywhere in the state.











Emerging Trend - A New Class of Homes



FANNIE MAE

Modular & manufactured homes can be an answer to our nation's growing housing supply crisis.



INNOVATION

MH Advantage homes are a hybrid, built on a steel base, using standard building materials. MH Advantage Homes average \$25k less than stick built or modular homes.







03

THE TIME IS NOW

America's biggest apartment owner (Greystar) starting to build modular



Homes are where jobs go to sleep at night.





QUESTIONS?