

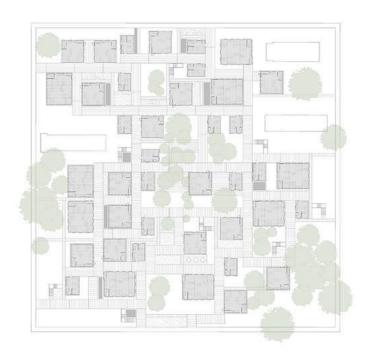
Emi Zanelli Portfolio 2020

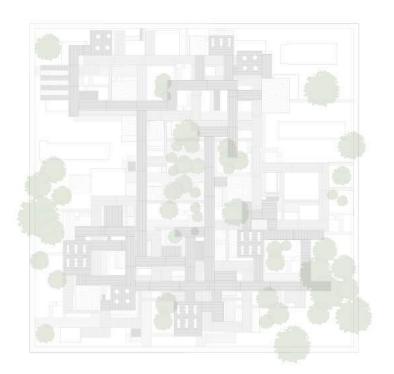
Tulane School of Architecture 2021

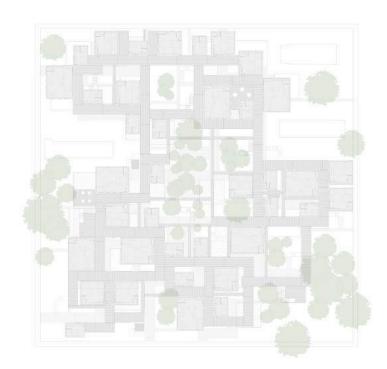
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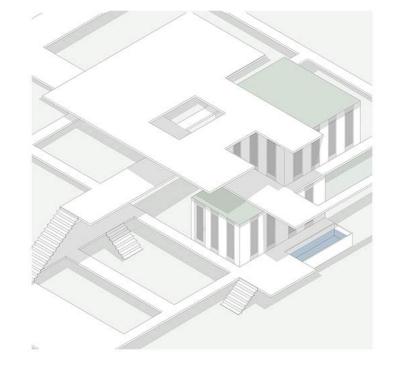
## The Mat Housing Complex

The goal of the Mat Housing Complex is to integrate compact, replicable homes of various sizes in a repetitive manner into one (or multiple) blocks of uptown New Orleans. The two layers of stacking create numerous garden and community spaces on the roofs of one another. Additionally, the block formation is, and can be, altered based on existing trees, historic buildings, and accommodation of neighbors.



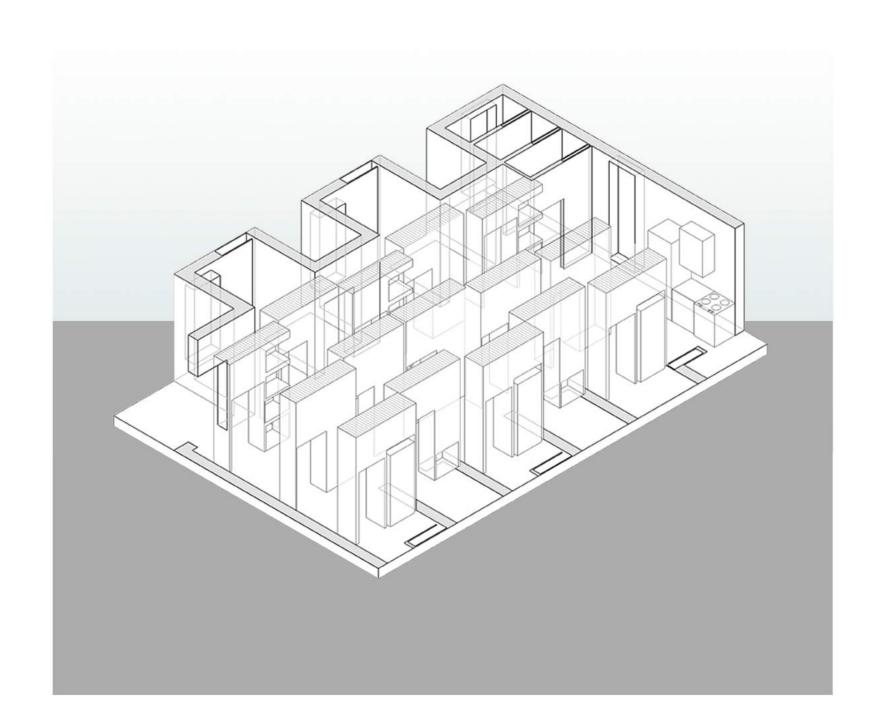




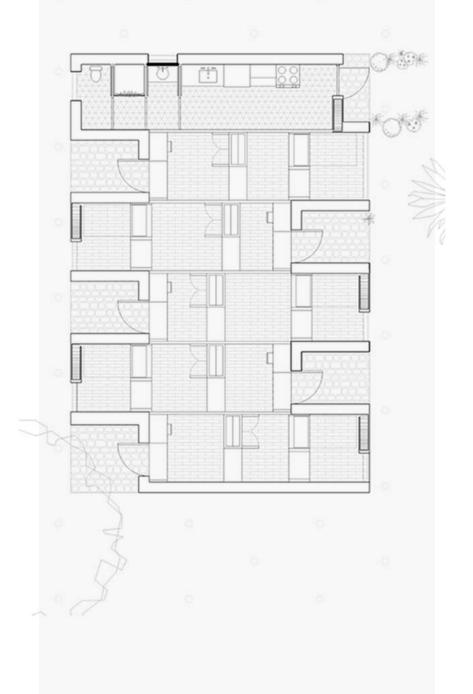


## The Mat Housing Complex

The mat housing complex takes its housing modules from a previous project, The Horizontal House. By connecting the houses via catwalk and deck-like structures, neighbors are better able to interact and develop a meaningful environment. Furthermore, the raised buildings, iron railings, and vertical holes windows on a square building all pay homage and reap the benefits of the area's vernacular architecture.



#### The Horizontal House











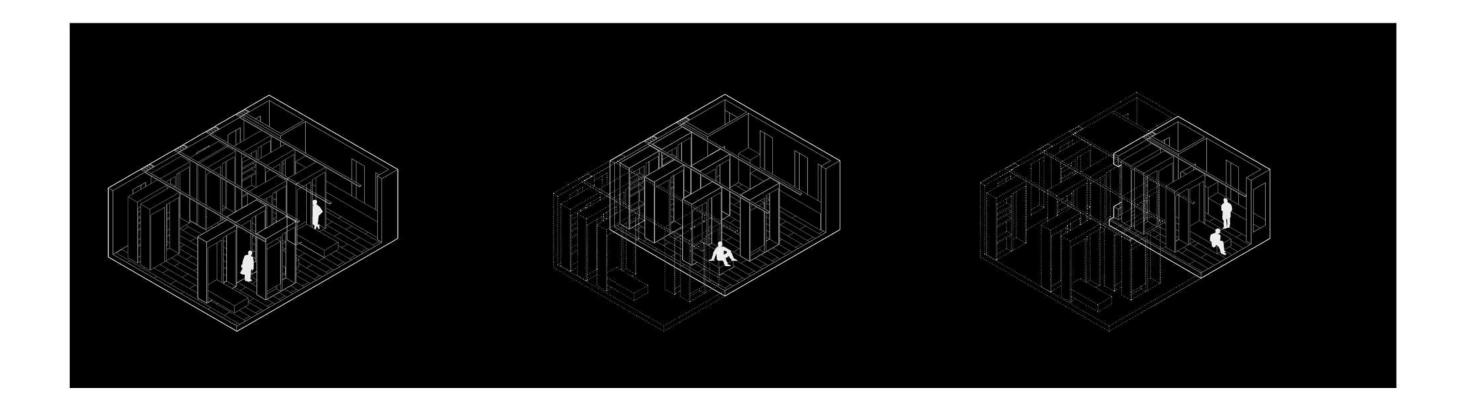






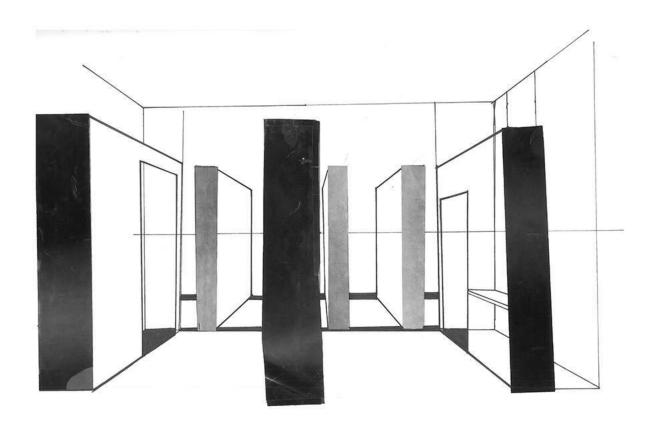


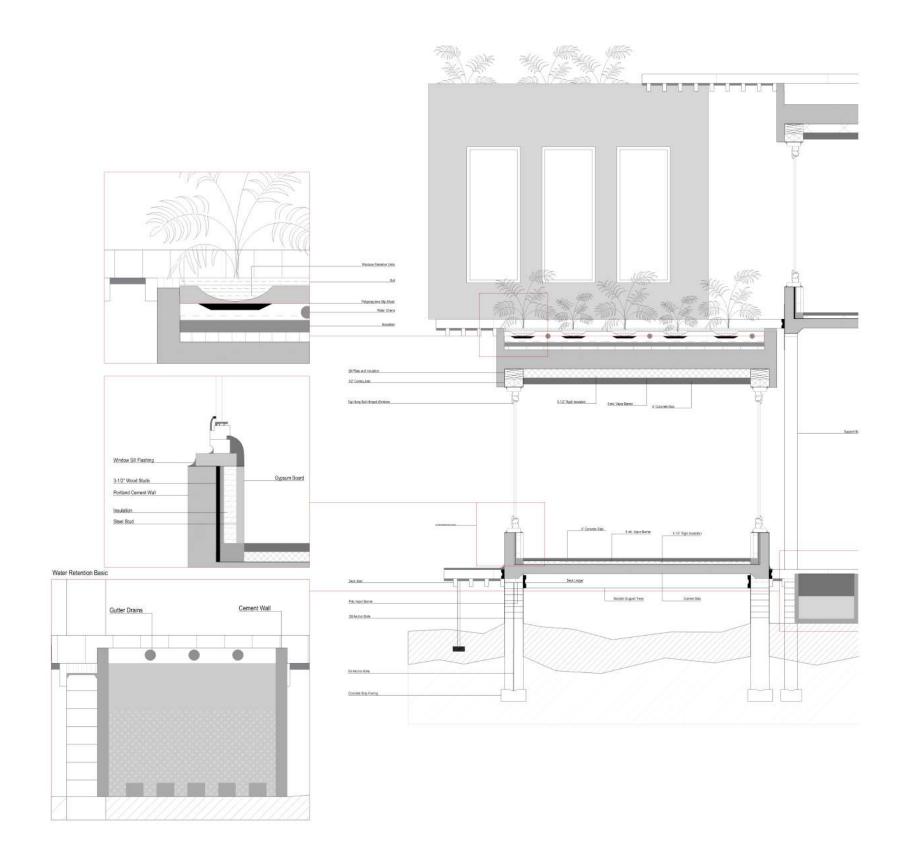




## The Horizontal House as Prefabricated Units

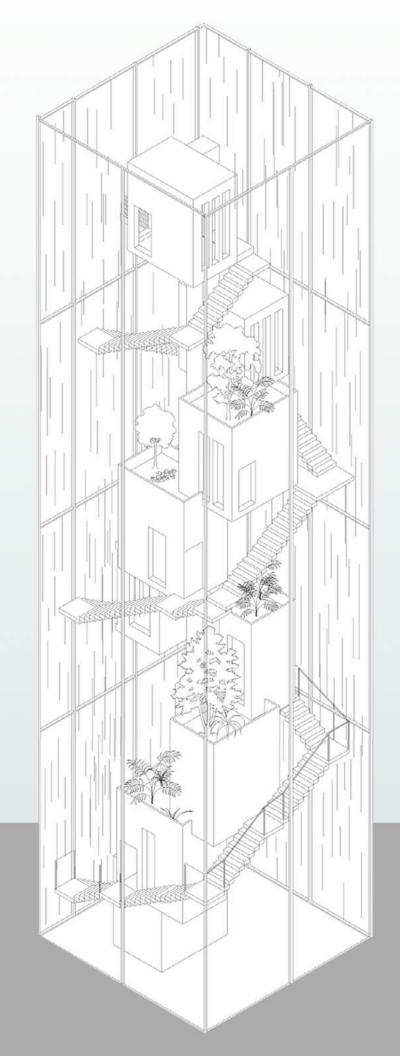
The horizontal house can exist in a one, two, or four person unit. It is defined by its stripe-like design and movement of numerous preinstalled furinutre pieces. The pieces serve as desks, wardrobes, and beds and can be moved along its rail and one can move through the piece. The movement formed by this design is amplified by the linear movement of flexible walls and alternating private outdoor space.





#### Wall Section Detail

Wall Section showing the flood prevention and climate considerate measures implemented in The Mat Housing Project.



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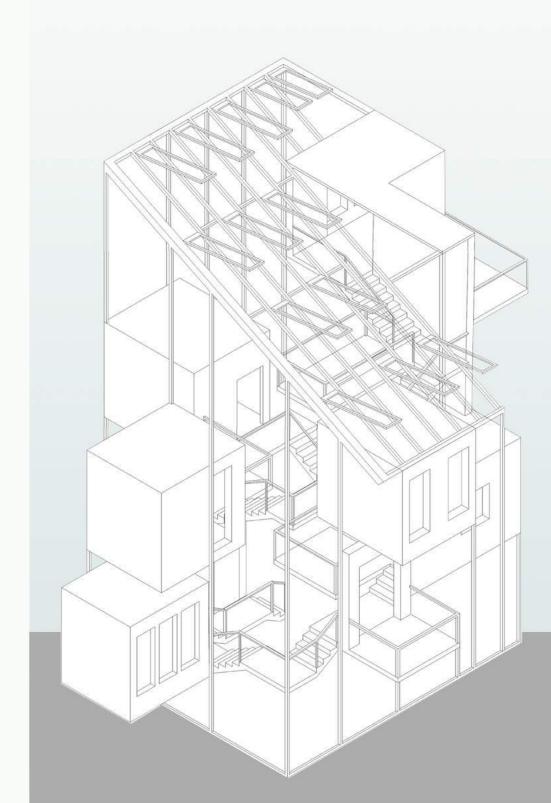
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The Mushroom and Vertical
Houses are designed
based on rigid
perameters dictating their
spatial capacity and elongated
nature. The designs
are limited by a minimal
footprint and emphasize
a perpendicular quality.

Movement through the buildings consists of a spiraling thrust, extruding the occupant while mantaining a relationship with the outer context.

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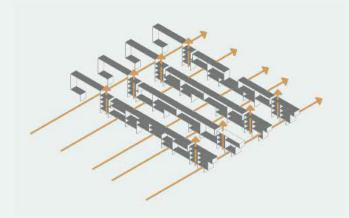








#### Boundaries and threshholds



The goal of this project is
to create an urban landscape in the heart of Toronto.
To accomplish this, the integration
and revitalization of existing roads
is used as a method to organize the
site.

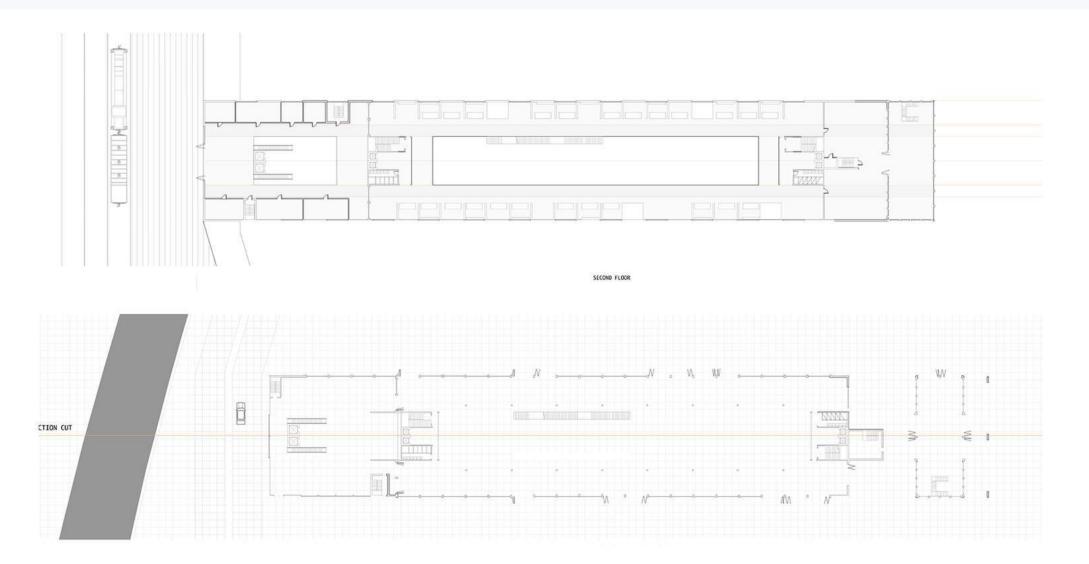
The second component is the insertion of a housing block, viewing
tower, office complex, and
a train station + community
marketplace and plaza.







#### Toronto Community Center, Boundaries and Thresholds



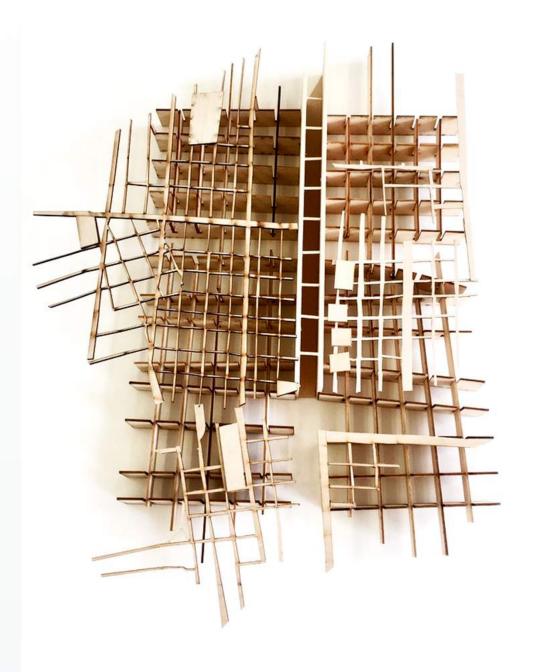
This community center attempted to integrate numerous community functioins such as a train station and market hall. There is an emphasis on permeability through the first floor as it connects a residential space and community plaza with each other.

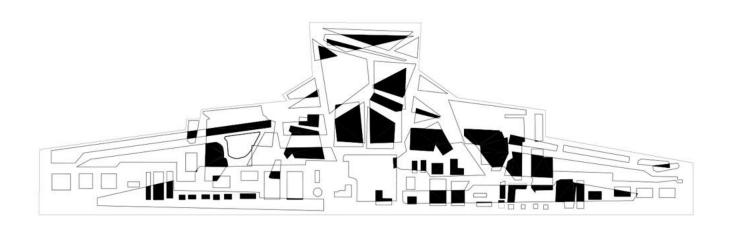
Furthermore, the extention of the building to hover above the train tracks allows for a sheltered experience on the platform and a unique view when above the tracks.

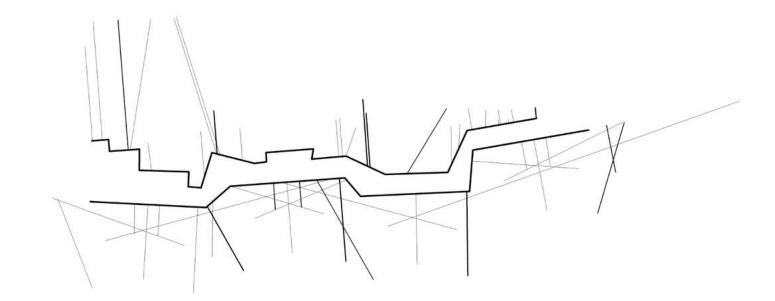
### Analysis of the Lafitte Greenway

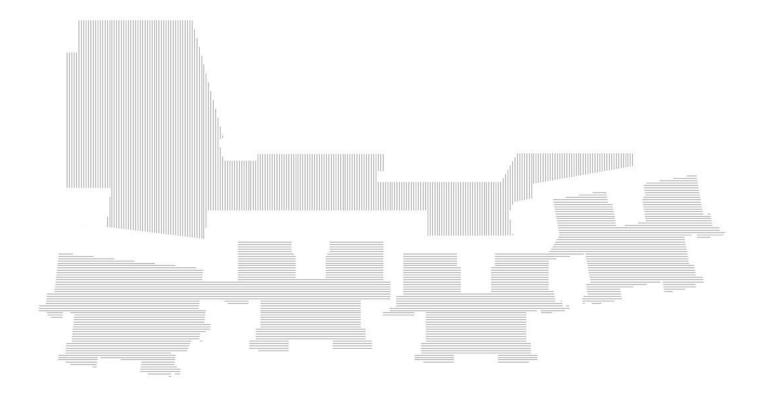


The Lafitte Greenway was once an old canal and shipping center that became a scar across the city of New Orleans. These projects are syntheses analyzing the elements that constitute the space. The collection of natural topography, infrastructure and history culminate to develop a cohesive understanding of the the Lafitte Greenway and its former canal.









# Precedent Research of Strawberry Vale Elementary School Victoria, BC

The analysis of Strawberry Vale was done in preparation of an elementary school design. The circulation, interaction with nature, and division of the spaces remained important considerations and useful factors to employ.

#### Gansu, China



Exploration of 3d maps via the overlay of historic maps and GIS data. The maps are a rendering of the Gansu Mountains and the Yellow River.