



# The Post Office Is Now A House

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### The Post Office Is Now A House

A Thesis Submitted to the Department of Architecture Harvard University Graduate School of Design, by

### Hannah Connolly Hoyt

In Partial Fulfillment of the Requirements for the Degree of Master of Architecture

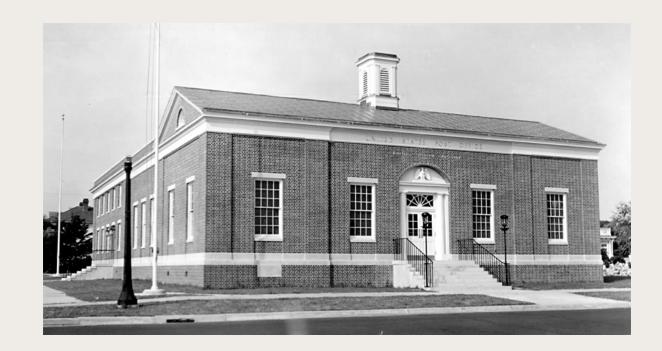
### January 2021

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Hannah Hoyt

Ron Witt **Thesis Advisor** 

# The Post Office Is Now A House



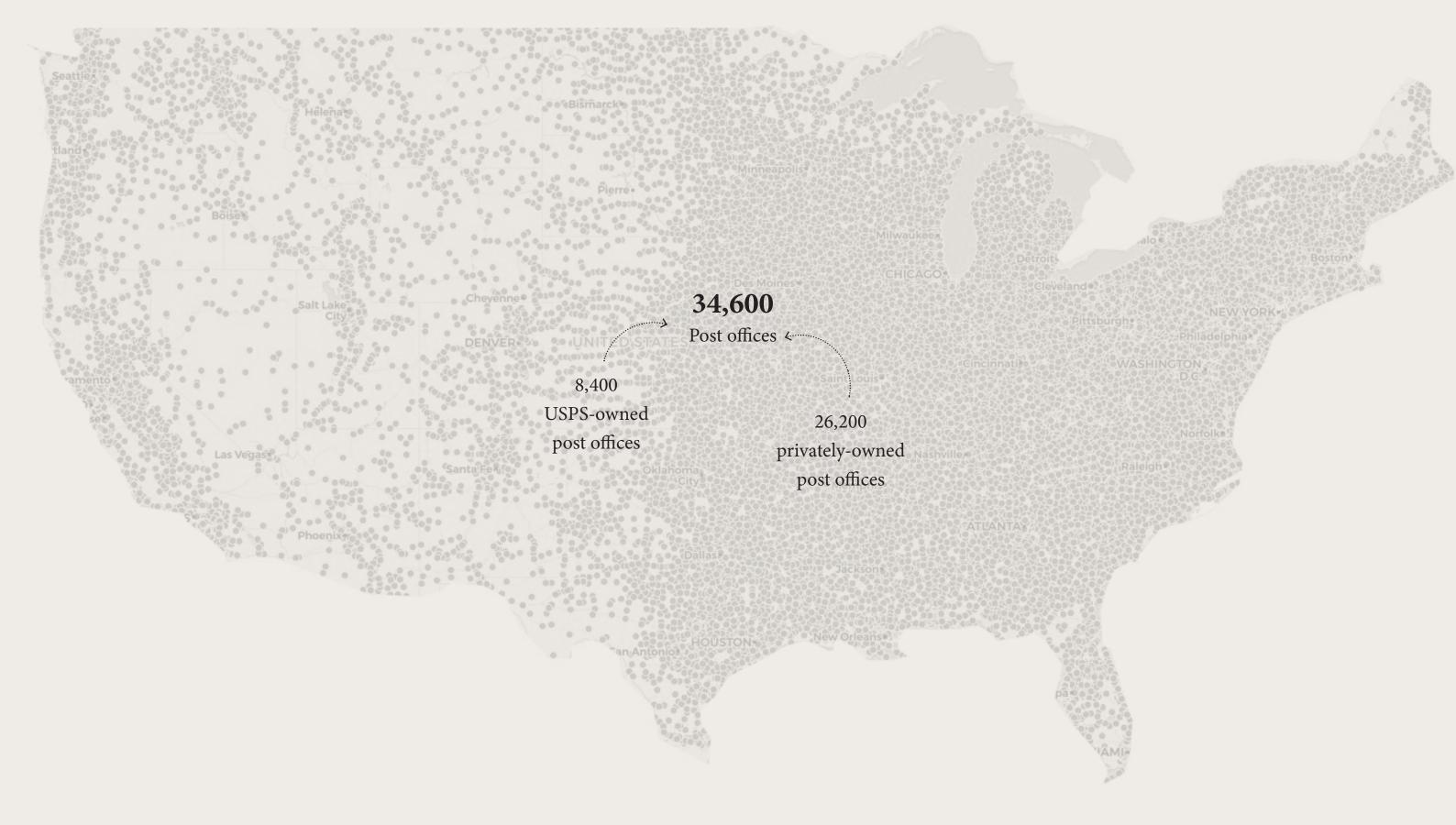
Hannah Hoyt Harvard GSD M.Arch Thesis December 2020

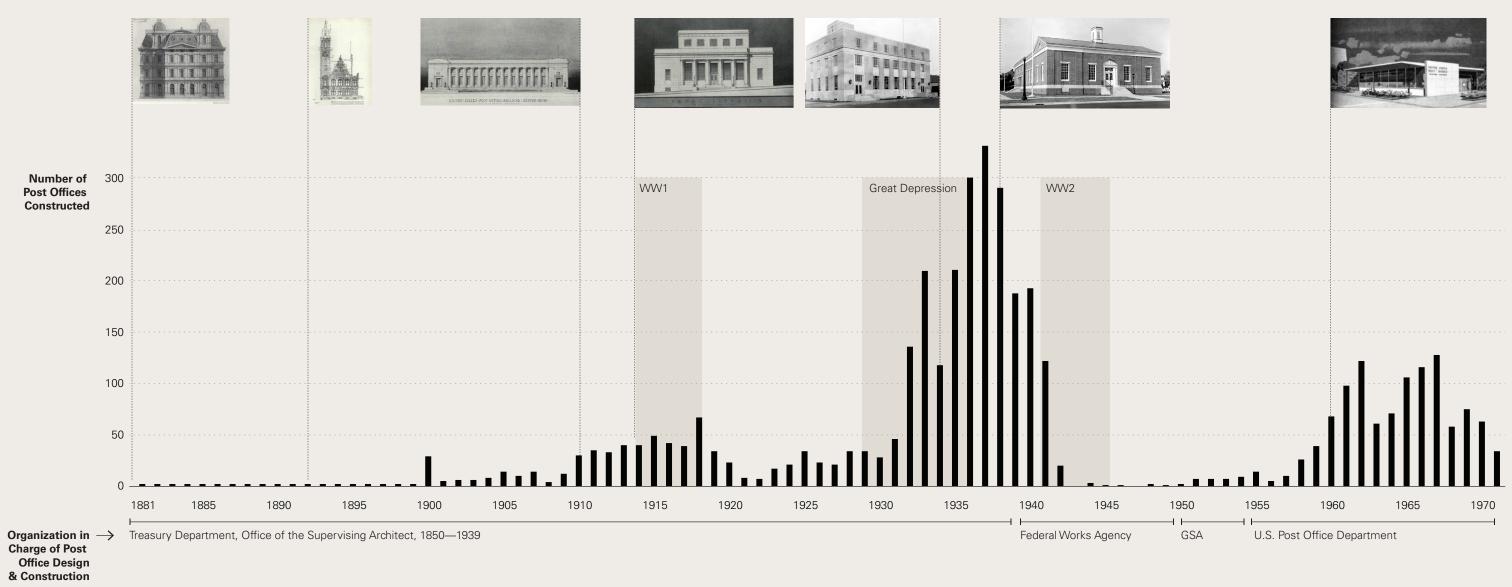
# Abstract

The Post Office Is Now A House positions the United States Postal Service's national network of 35,000 post offices as a site for exploring two progressive policies: the Green New Deal and the Homes for All bill, which call for adapting and upgrading existing buildings and constructing 9.5 million social housing units, respectively. By integrating social housing and other public programs, such as day cares or credit unions, alongside updated postal services, the post office can continue to play a vital role in local civic life.

Adapting post offices to meet these policy objectives requires a design approach that is at once repeatable, and thus nationally relevant, and highly specific, responsive to community aspirations and site constraints. Referencing the 20th century history of constructing post offices based on standard Federal plans, the project proposes a series of "assemblies," common relationships between old post offices and new housing, which can be adapted for different sites and regions.













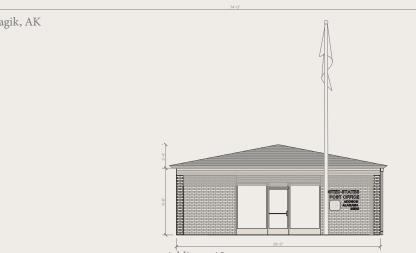


Ansonia, CT

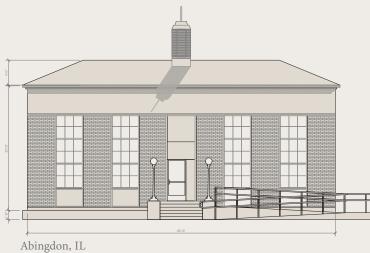




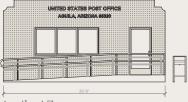
Åleknagik, AK



Addison, AL







Aguila, AZ



Figure 04. Post Office Elevations

The Post Office Is Now A House

1167TH CONGRESS 1167TH CONGRESS H. RES. 109 1ST SESSION H. RES. 109 Recognizing the duty of the Federal Government to create a Green New Deal.	
Note    Formation of the second seco	11111111111121213131415151616111112121313141515161617171819191101111121131141151161171181191101101101111121131141151161171181191191101101111121131141151151161171181191191191191

IV

•HRES 109 IH

116TH CONGRESS 1ST SESSION H.R. 5244

To establish new units of public housing and private market affordable housing, to provide grants to combat gentrification and neighborhood destabilization, and for other purposes.

Т

# IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 21, 2019 Ms. OMAR introduced the following bill; which was referred to the Committee on Financial Services

# A BILL

To establish new units of public housing and private market affordable housing, to provide grants to combat gentrification and neighborhood destabilization, and for other purposes.

Be it enacted by the Senate and House of Representa-

2 tives of the United States of America in Congress assembled,

3 SECTION 1. SHORT TITLE.

4 This Act may be cited as the "Homes for All Act

### 5 of 2019".

1

# 6 SEC. 2. CONGRESSIONAL FINDINGS.

The Congress finds that— 7

1	(1) Every Sta
2	the United States
3	housing options f
4	tremely-low income.
5	(2) More than
6	are paying more that
7	ing and are consider
8	
9	(3) The curren
10	facing the United St
11	by the private marke
12	eral intervention and
13	(4) The Federal
13	icy that guarantees th
15	viduals, strengthen ne
	failures of the free m
16	new public housing an
17	able housing.
18 <b>SEC</b> .	3. CONSTRUCTION OF NE
19	(a) PURPOSE.—It is th
20 fund	the construction of 9,50
21 ing u	nits over 10 years.
22 (	b) Repeal of Faircle
23 9(g) o	f the United States Hou
24 1437g	(g)) is amended by strik
25 to limit	tation on new construction

•HR 5244 IH

24

25

2

very State and large metropolitan area in States is facing a shortage of affordable ptions for people who are very or exincome.

re than 18 million households—1 in 6 more than half of their income on housconsidered severely cost-burdened.

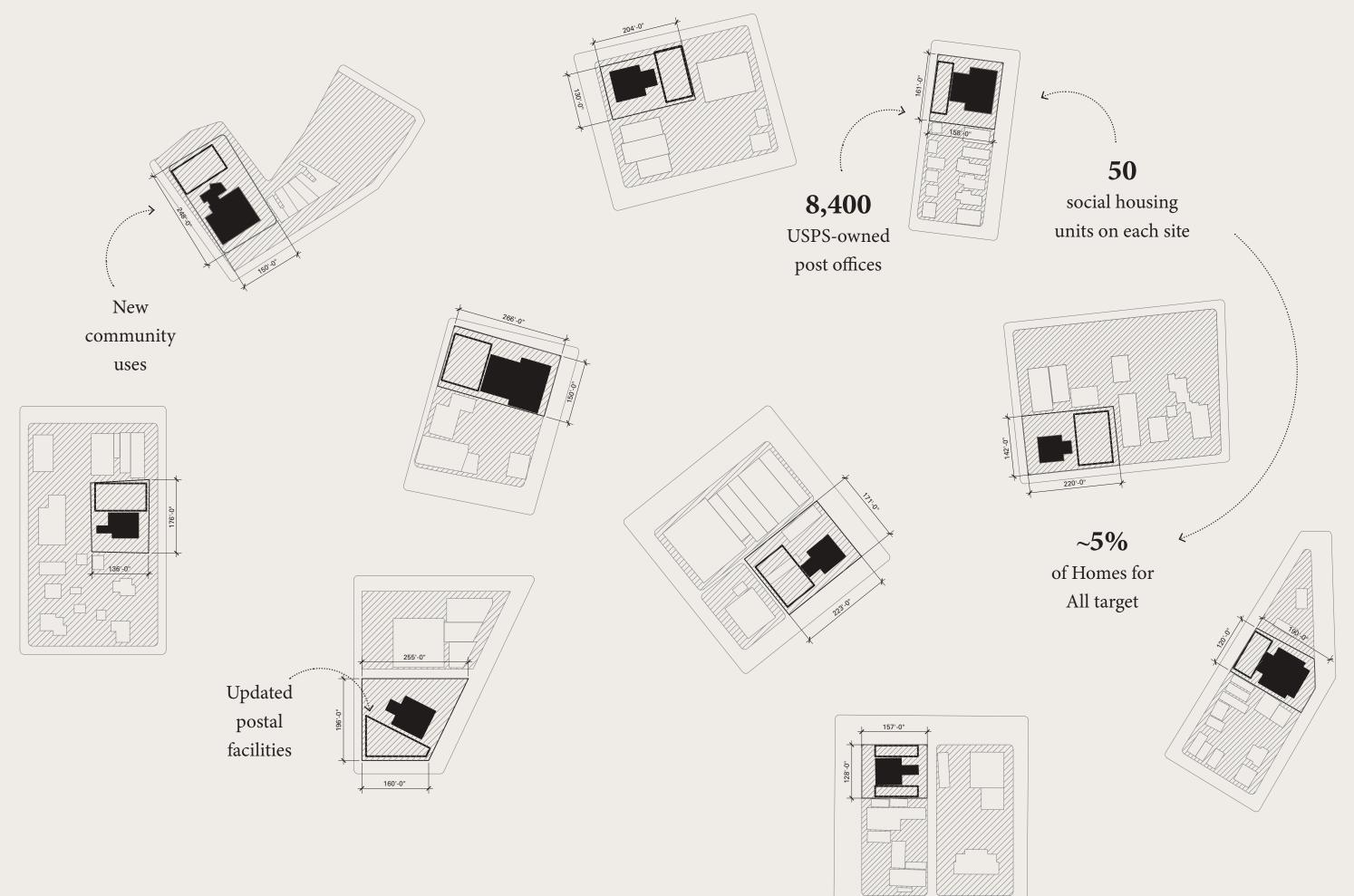
current affordable housing shortage nited States cannot be addressed solely e market, necessitating significant Fedion and investment.

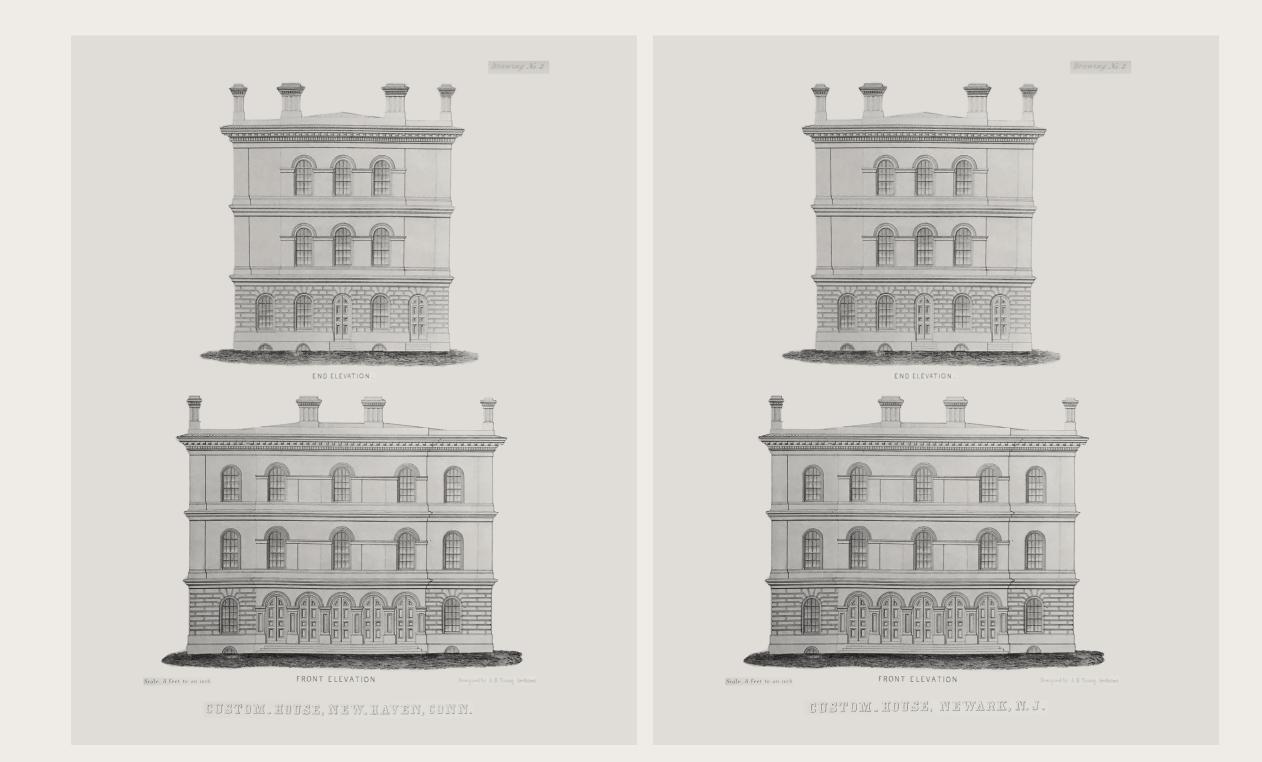
Federal Government must adopt a polintees the right to housing for all indigthen neighborhoods, and address the free market in housing by building using and investing in private afford-

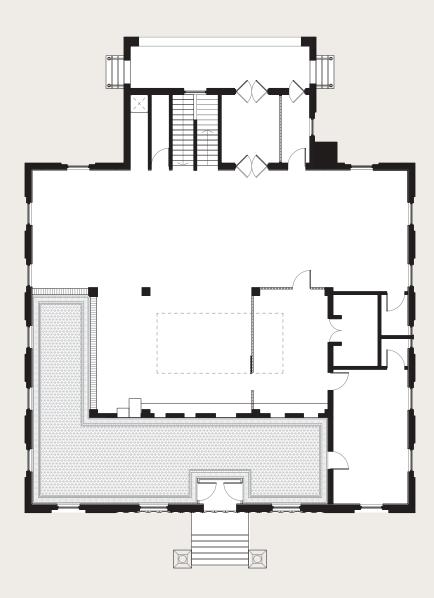
## ON OF NEW PUBLIC HOUSING.

It is the purpose of this section to 1 of 9,500,000 publicly owned dwell-

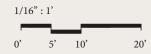
FAIRCLOTH AMENDMENT.—Section tes Housing Act of 1937 (42 U.S.C. by striking paragraph (3) (relating istruction).

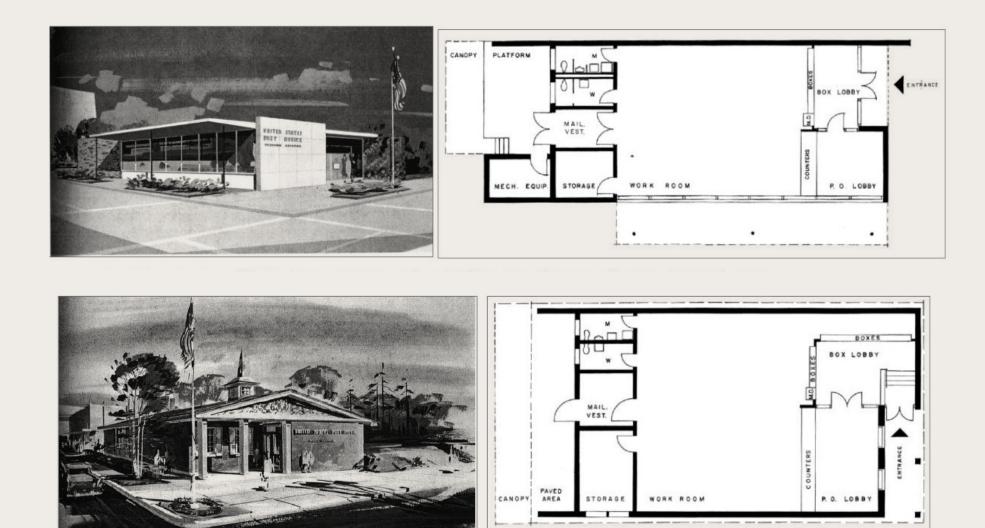






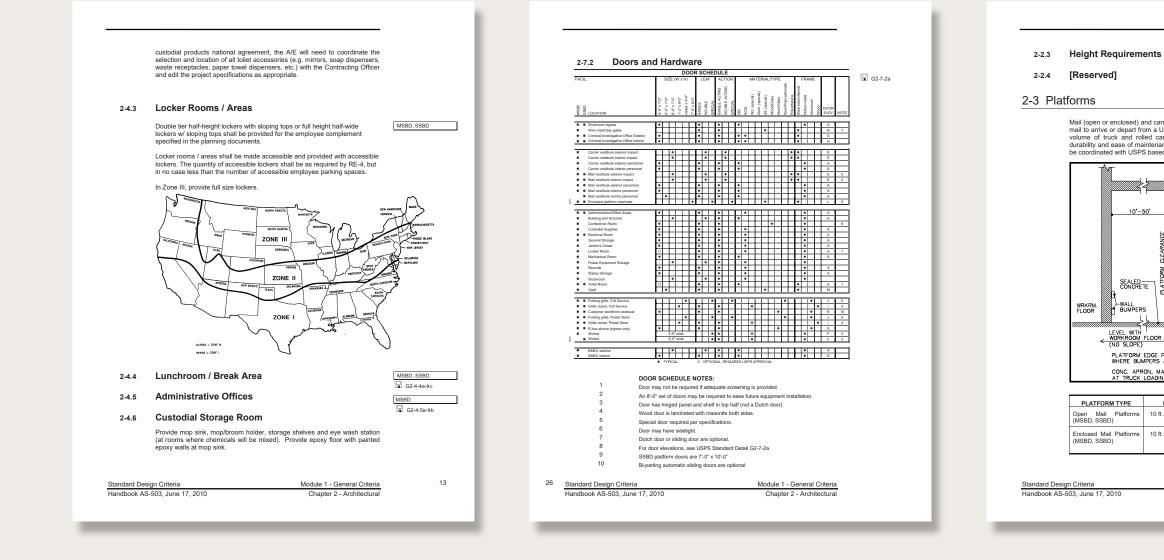












WRKRM. FLOOR

PLATFORM TYPE

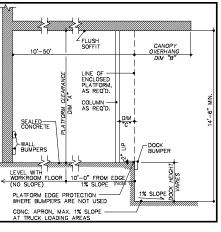
Open Mail Platforms (MSBD, SSBD)

Enclosed Mail Platform

(MSBD, SSBD)

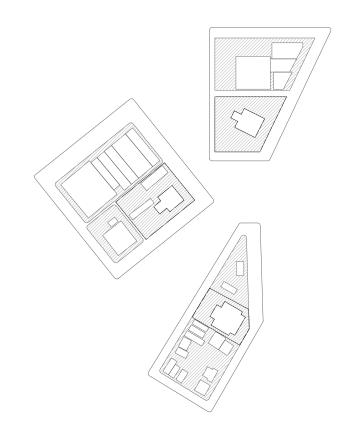
MSBD, SSBD

Mail (open or enclosed) and carrier platforms serve as the principle areas for mail to arrive or depart from a USPS facility. These platforms receive a high volume of truck and rolled cart traffic, and must be designed for utility, durability and ease of maintenance. Specific dock height requirements shall be coordinated with USPS based on local facility needs.

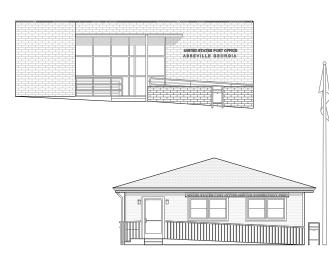


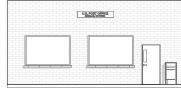
DIM A	DIM B	DIM C
10 ft. 0 in. (min.)	7 ft. 0 in. (MSBD) See Standard plans (SSBD)	1 ft. 6 in.
10 ft. 0 in. (min.)	3 ft. 10 in. (MSBD) See Standard plans (SSBD)	N/A

Module 1 - General Criteria Chapter 2 - Architectural

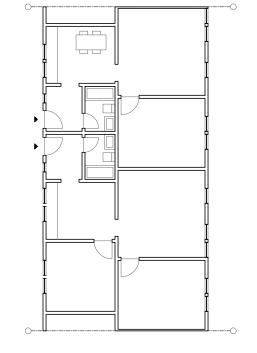


Site





Adapted Post Office

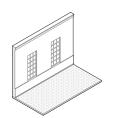


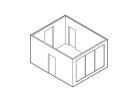
Housing

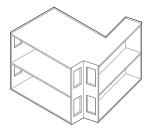
The Post Office Is Now A House

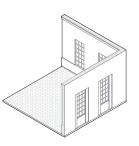
After school program Daycare Job training Credit union Senior center Clinic Reading room Meeting space

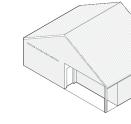
Community Program











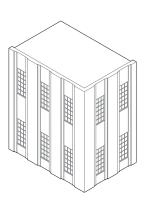
Assembly 01. Cut and Fill Wall

Assembly 02. Folded Face

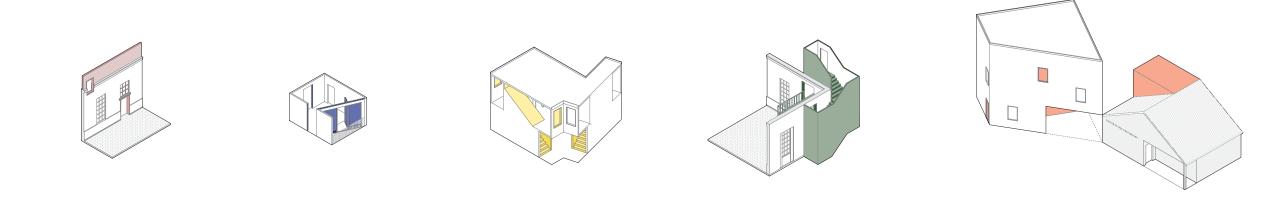
Assembly 03. Split Stair

Assembly 04. Stitching Stair

Assembly 05. Kissing Corner



Assembly 06. Overlap Addition



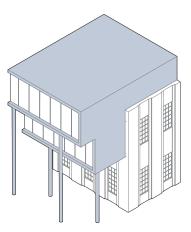
**Assembly 01.** *Cut* and Fill Wall

Assembly 02. Folded Face

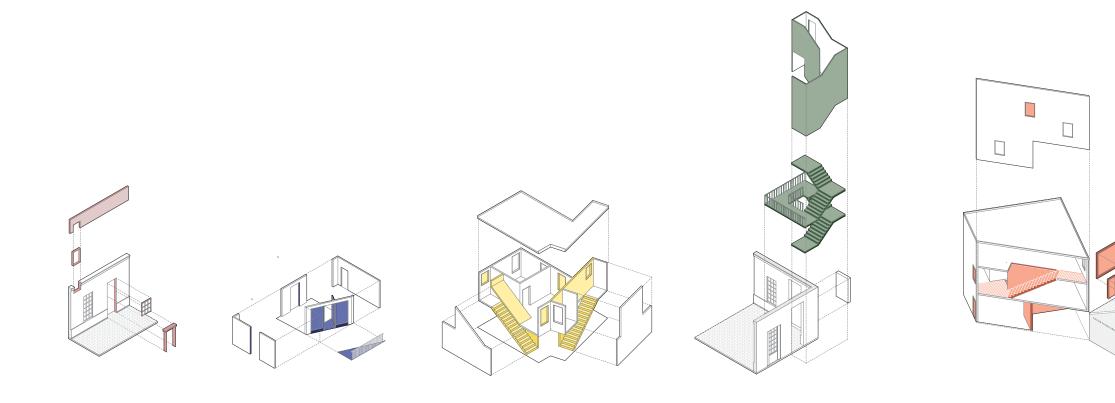
Assembly 03. Split Stair

Assembly 04. Stitching Stair

Assembly 05. Kissing Corner



Assembly 06. Overlap Addition



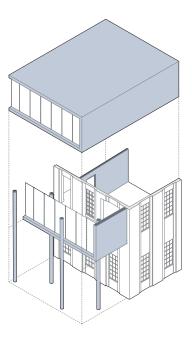
Assembly 01. Cut and Fill Wall

Assembly 02. Folded Face

Assembly 03. Split Stair

Assembly 04. Stitching Stair

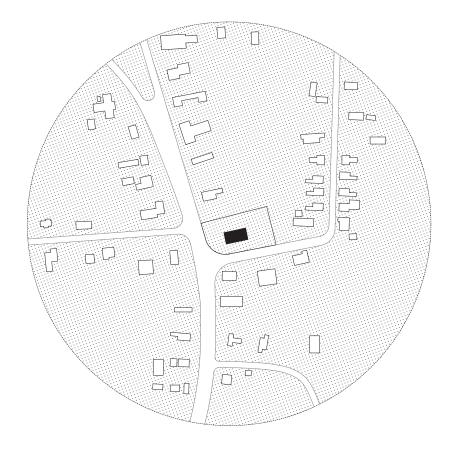
Assembly 05. Kissing Corner



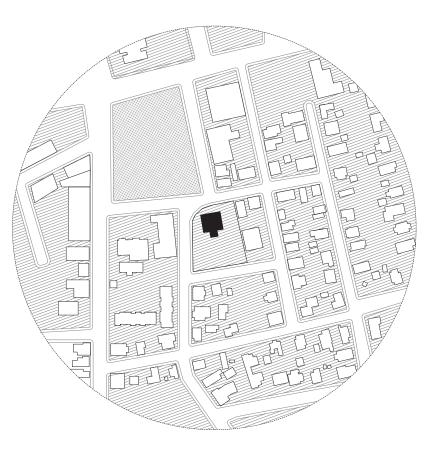
Assembly 06. Overlap Addition



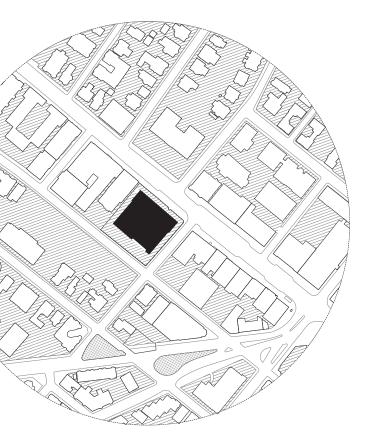
*Montague, Massachusetts* "1000 Series," 1969 Branch Post Office *Natick, Massachusetts* New Deal, 1937 Branch Post Office *Cambridge, Massachusetts* New Deal, 1935 Main Post Office



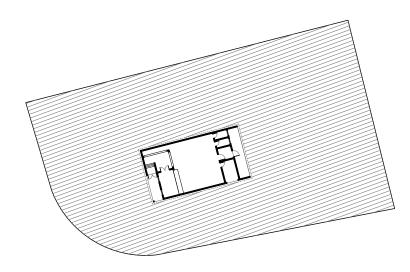
*Montague, Massachusetts* Rural 2,000 SF Post Office 26,000 SF Site



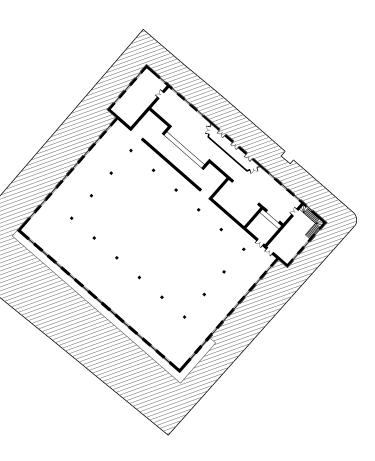
Natick, Massachusetts Suburban 4,700 SF Post Office 31,500 SF Site



*Cambridge, Massachusetts* Urban 50,000 SF Post Office 37,500 SF Site



*Montague, Massachusetts* Rural 2,000 SF Post Office 26,000 SF Site Natick, Massachusetts Suburban 4,700 SF Post Office 31,500 SF Site



*Cambridge, Massachusetts* Urban 50,000 SF Post Office 37,500 SF Site

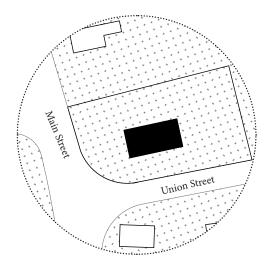


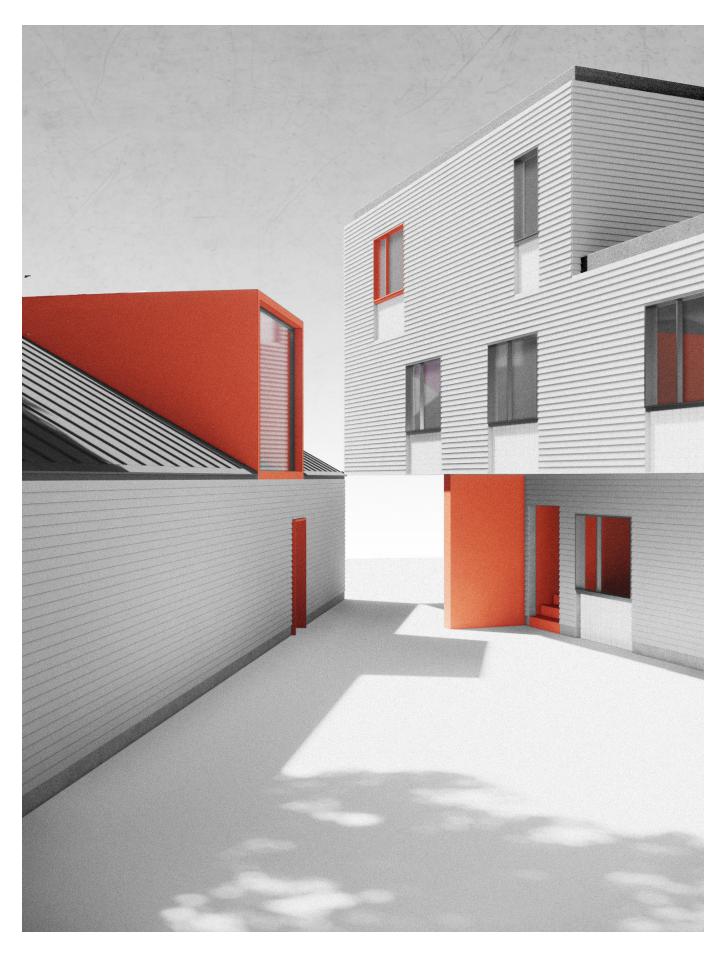
Main Street

Corner of Union & Main

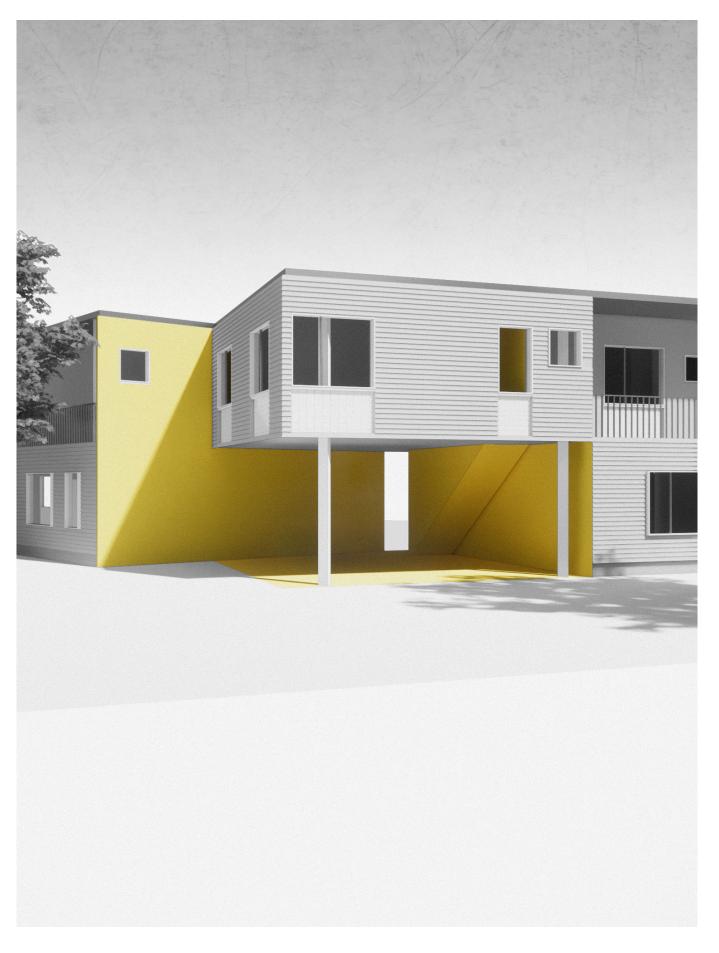


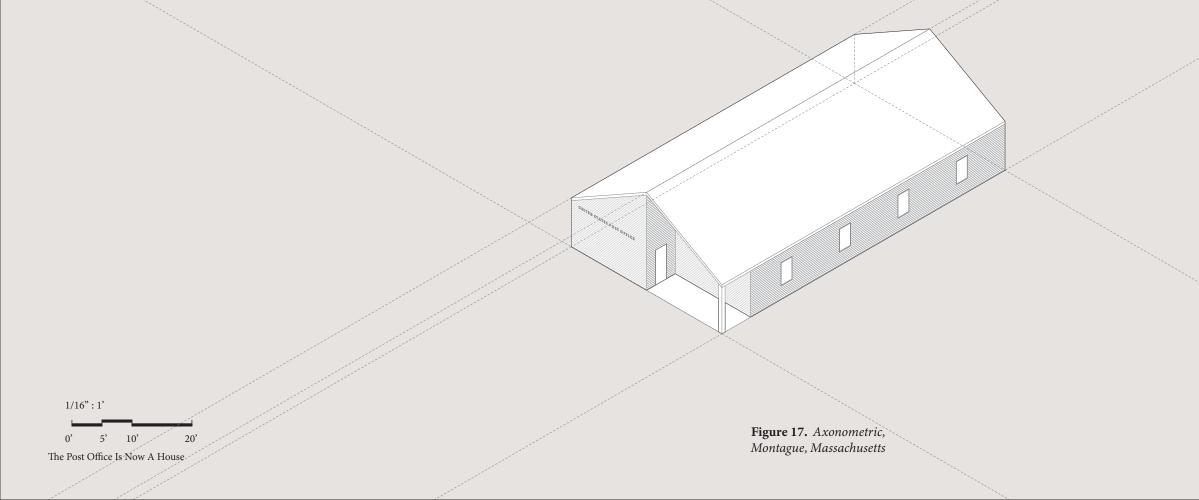
Union Street

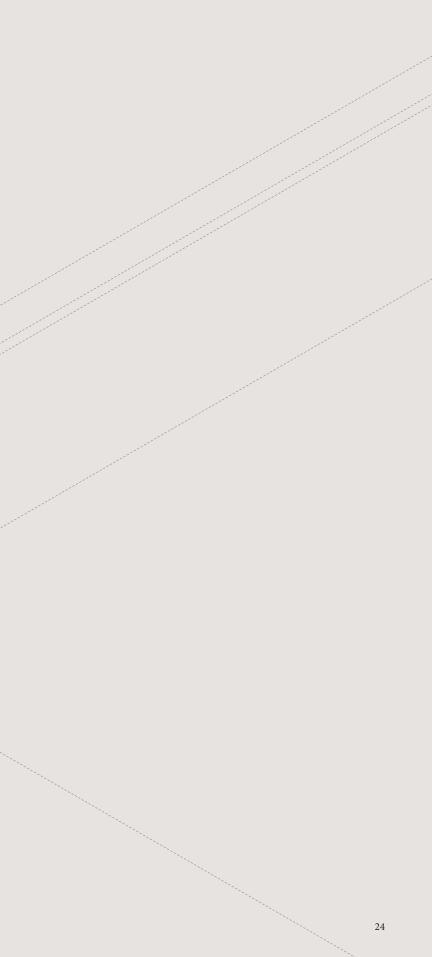


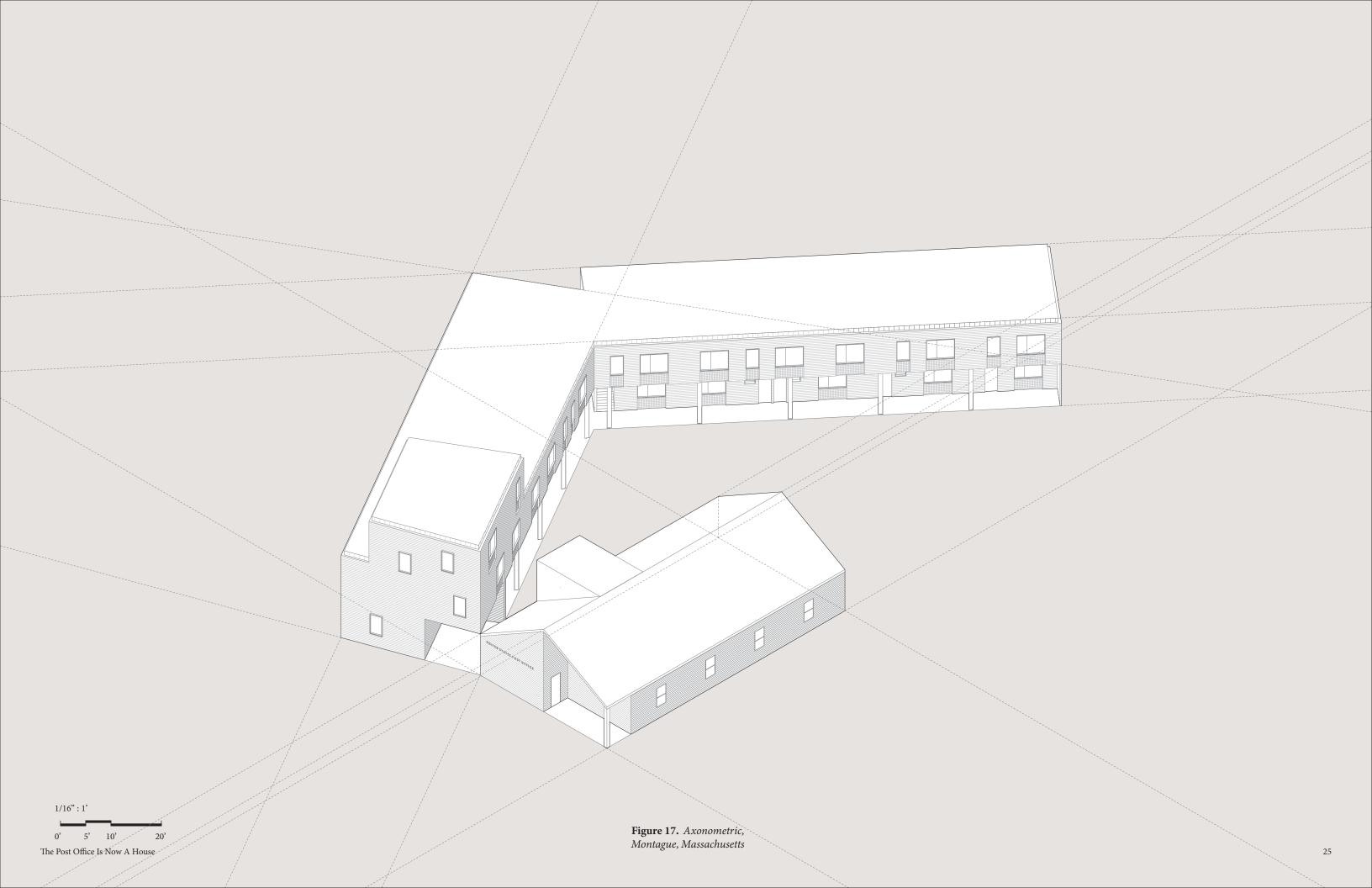


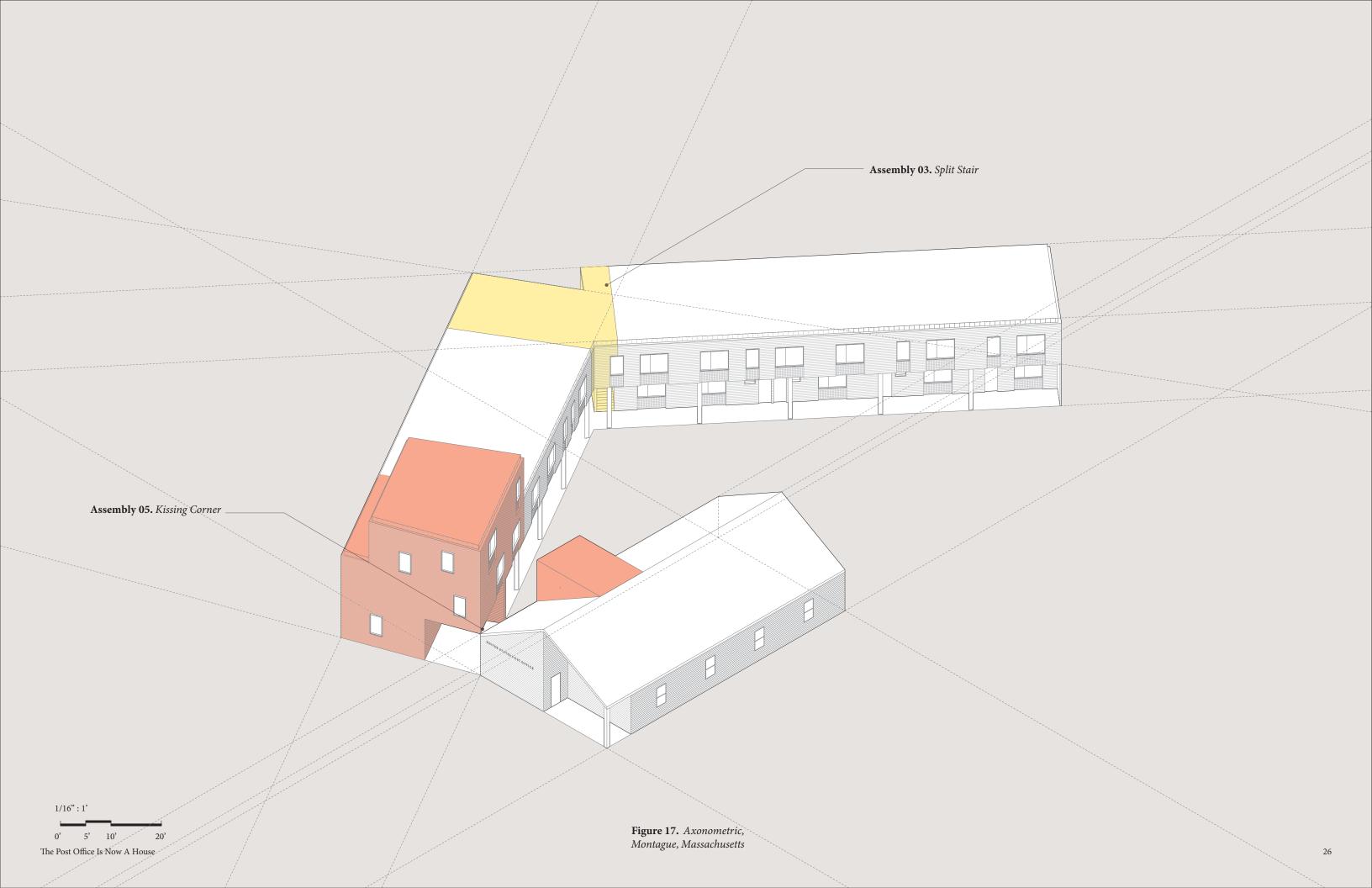
Assembly 05. Kissing Corner Montague, Massachusetts

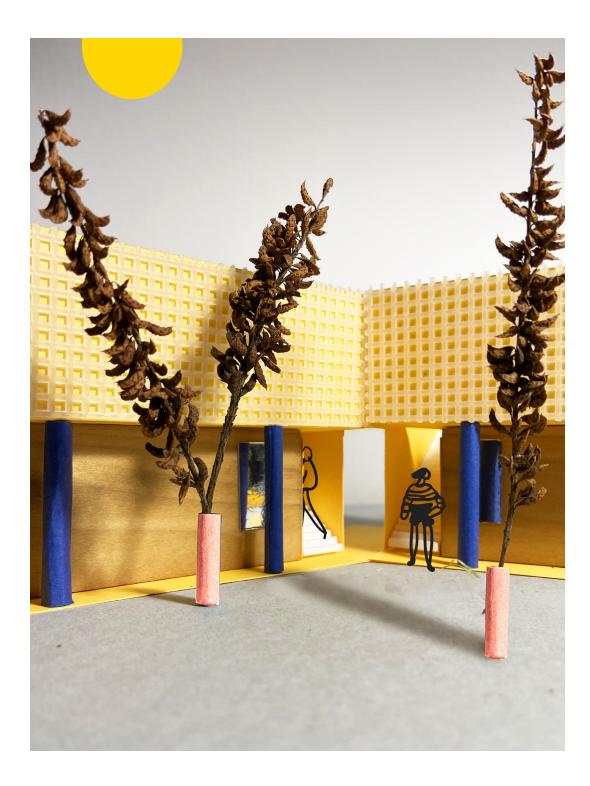


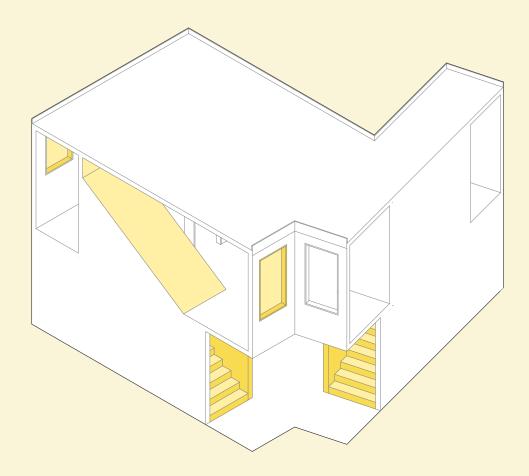


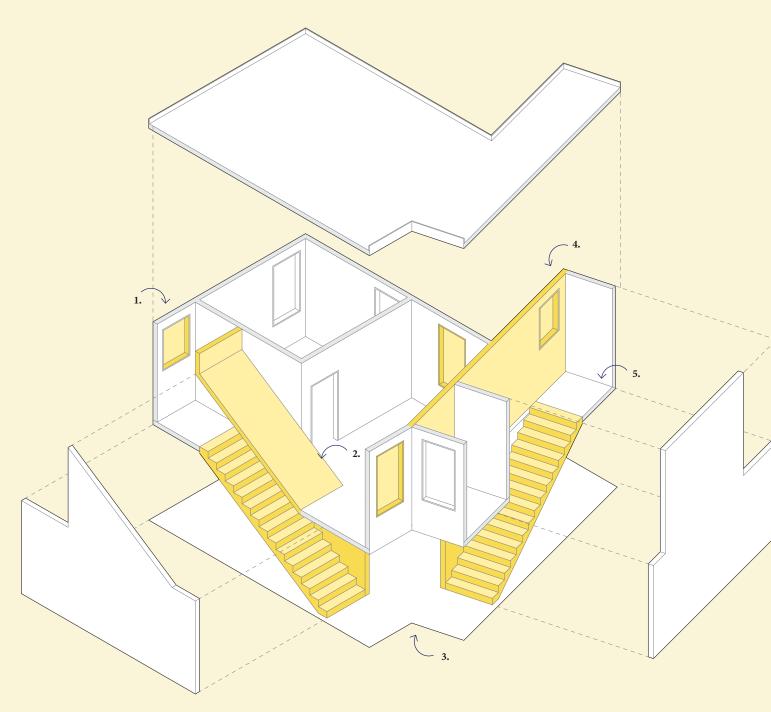












**1.** Window framing view at top of stairs

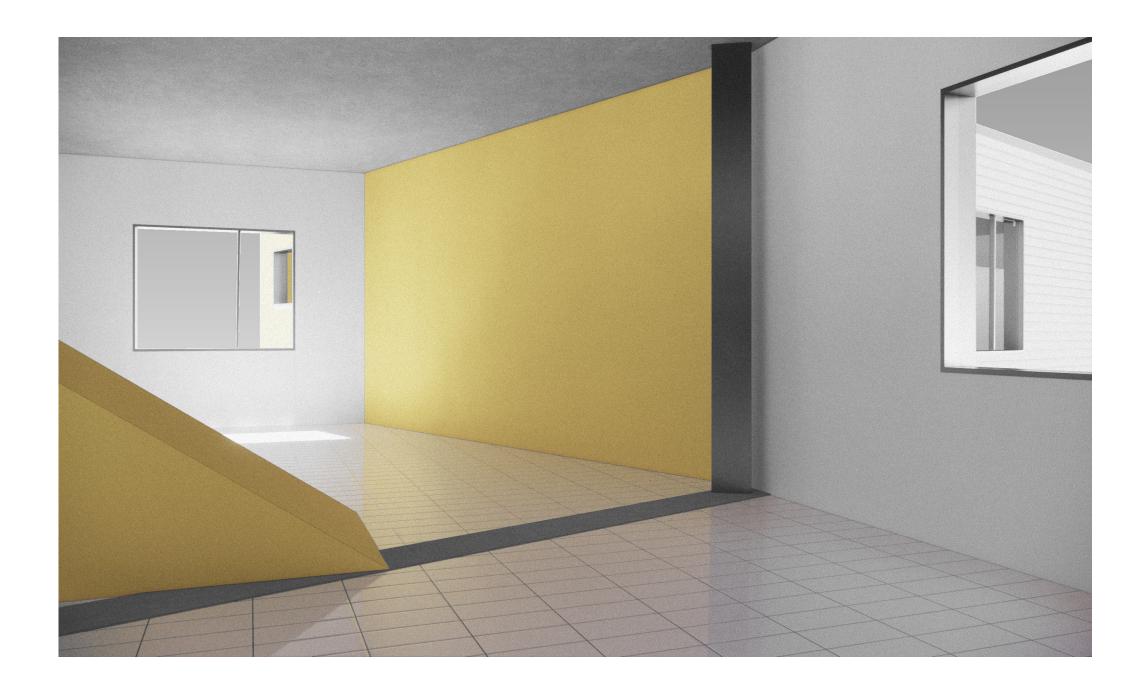
2. Split stair passing through unit

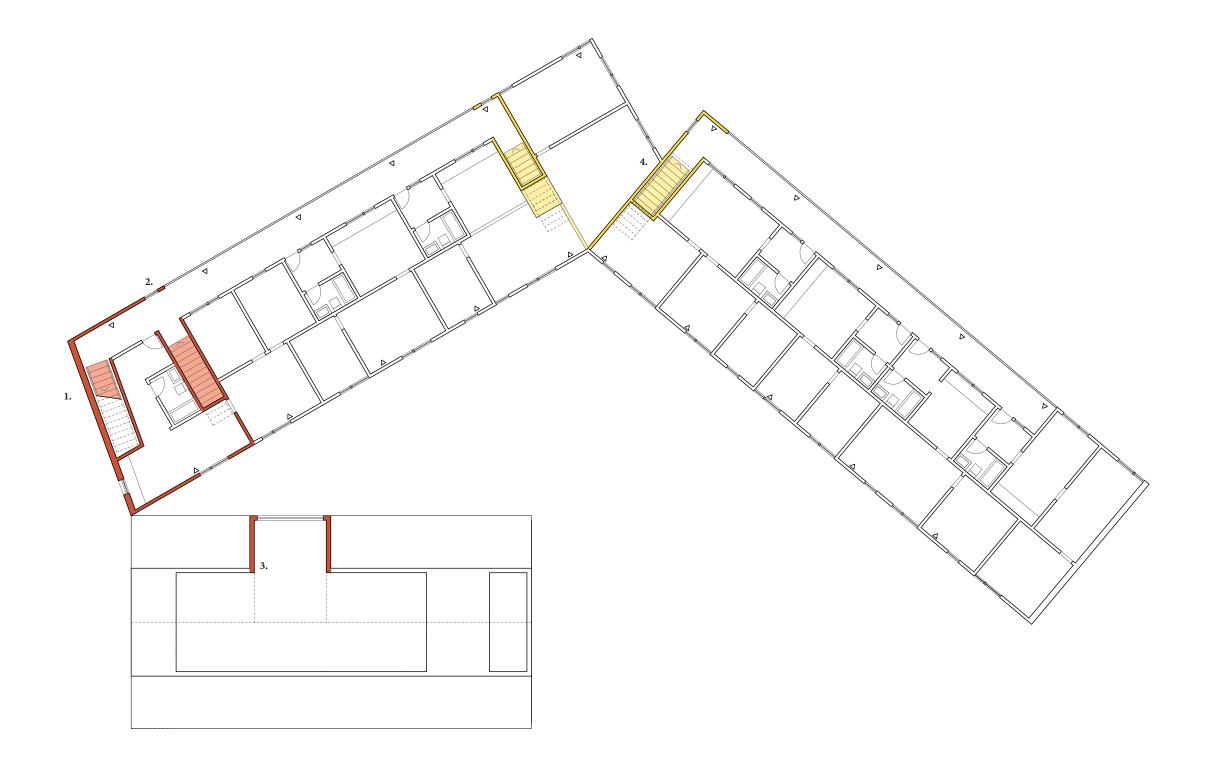
3. Angle of intersecting volumes, adjusted based on site

- 4. Angled wall indicating split stair
- 5. Landing to corridor

**Assembly 03.** Split Stair Montague, Massachusetts



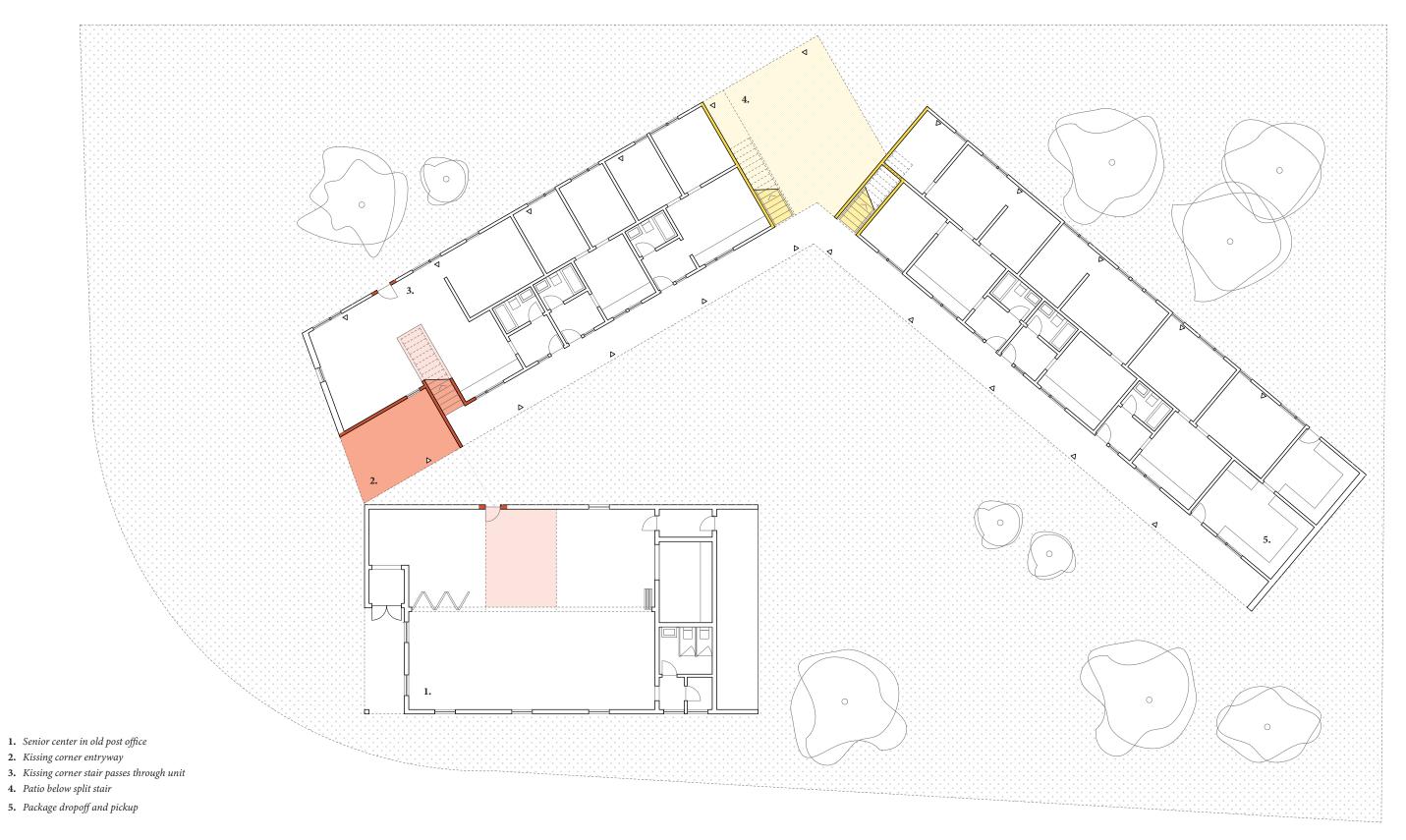




- **1.** Kissing corner stairs to third floor
- 2. Kissing corner window framing view from stair
- 3. Kissing corner dormer window overlooking housing
- 4. Rooms formed by split stair

1/16" : 1' 0' 5' 10' 20' The Post Office Is Now A House

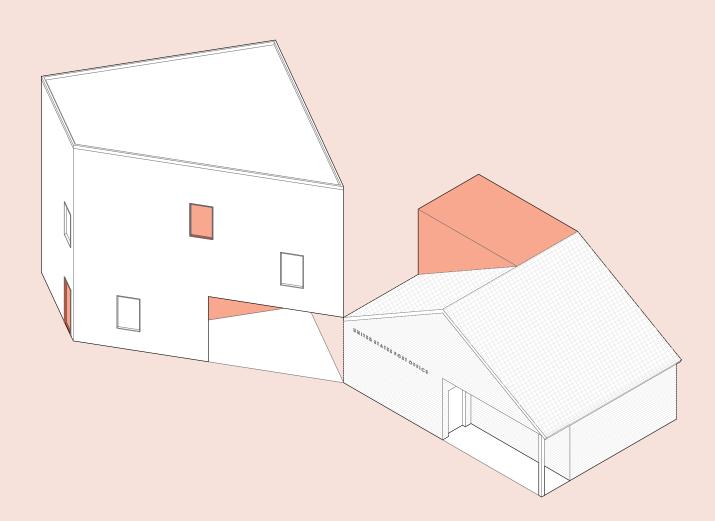


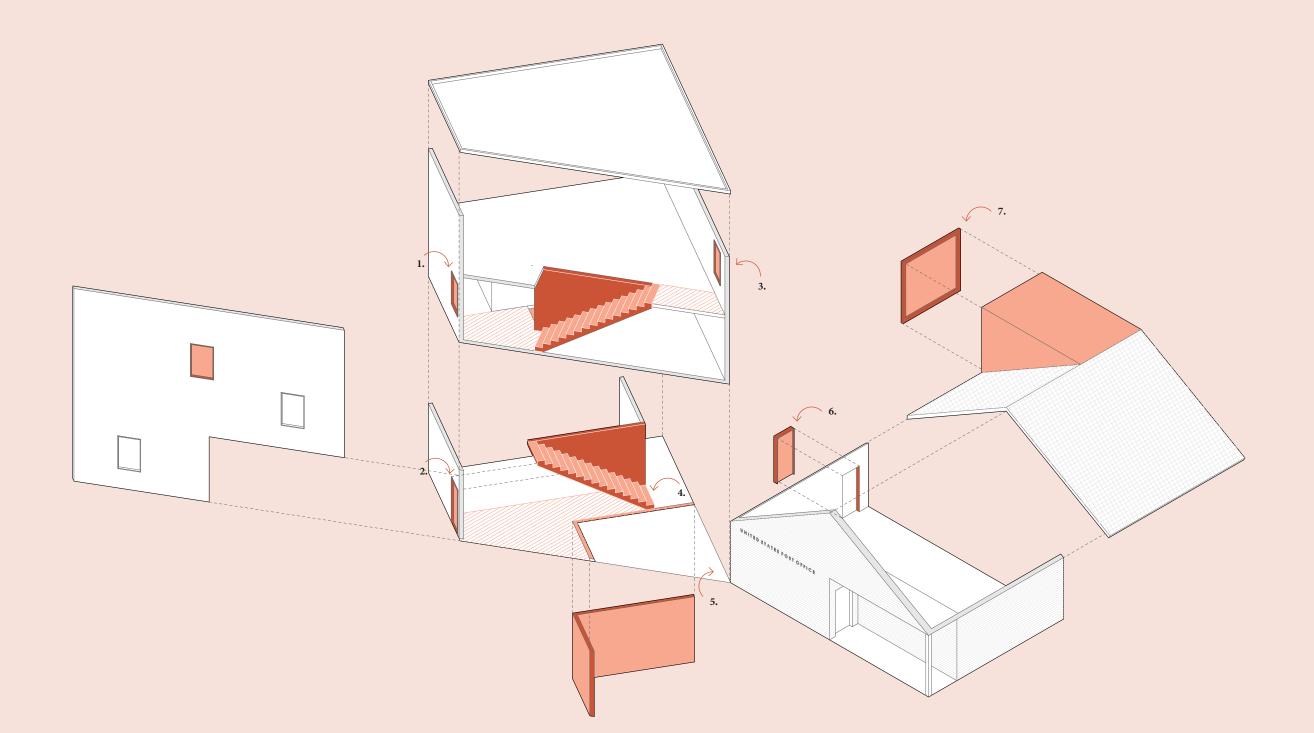


1/16":1'

0' 5' 10' 20' The Post Office Is Now A House

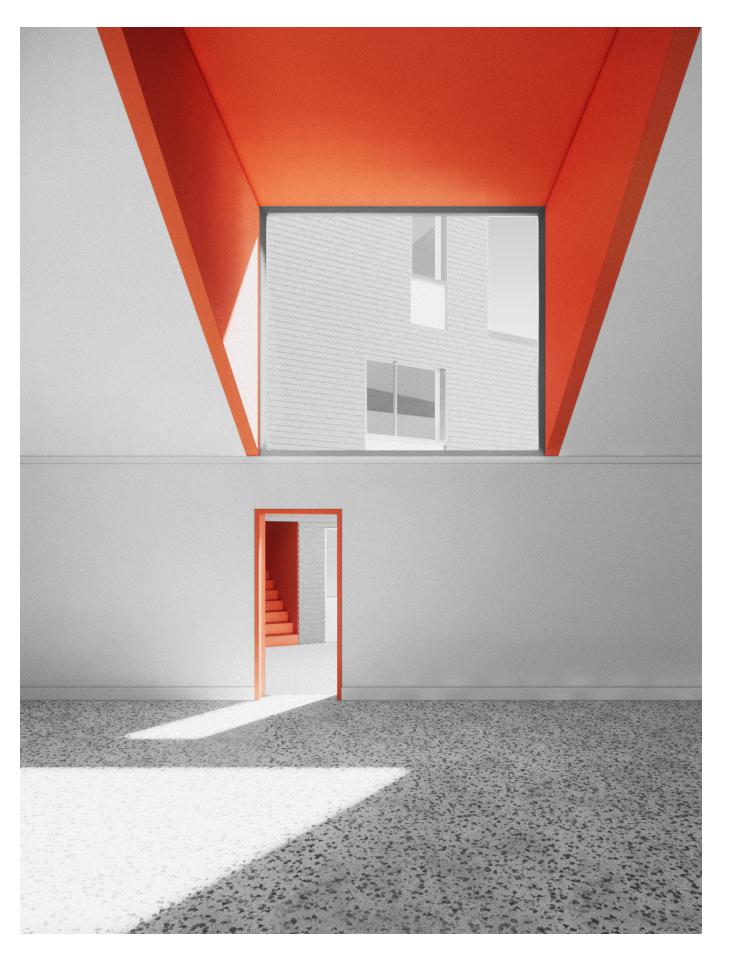
**Figure 19.** Ground Floor Plan, Montague, Massachusetts





- **1.** Window framing view from first floor stair
- 2. Exterior door from unit
- 3. Window framing view from second floor stair
- **4.** First floor stair
- 5. Gateway formed by kissing corner
- 6. New door in existing post office to access stair

7. New dormer framing housing view The Post Office Is Now A House



Assembly 05. Kissing Corner Montague, Massachusetts





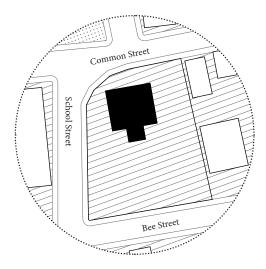
Common Street

<image>

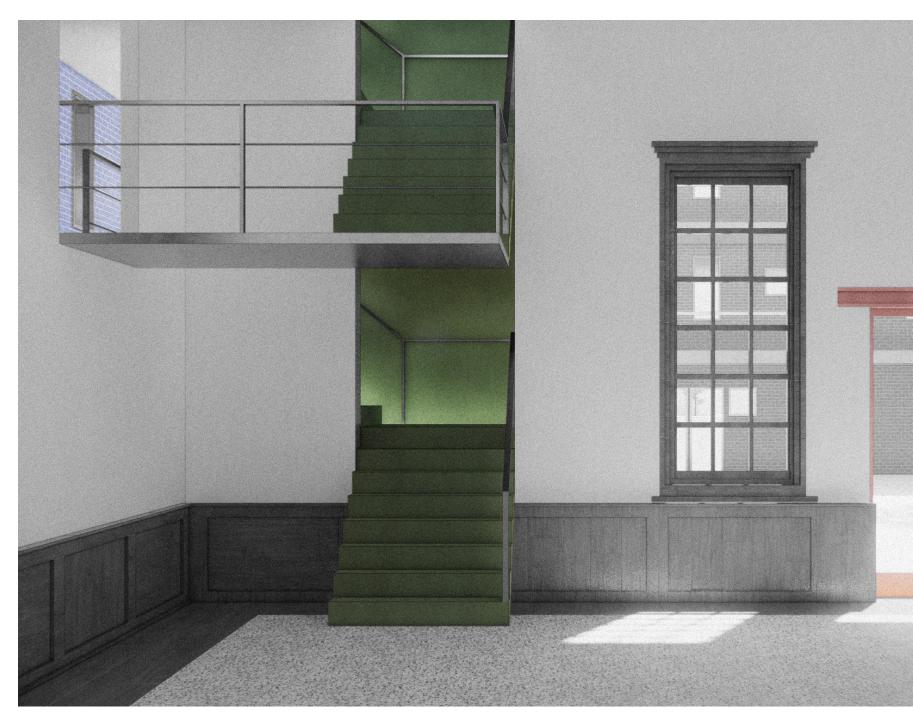


Corner of Common & School

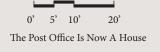
Bee Street



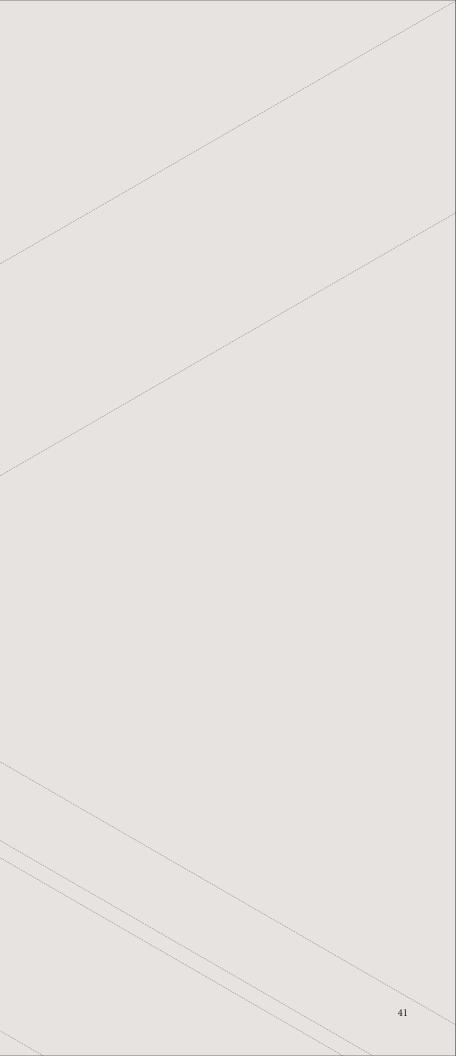




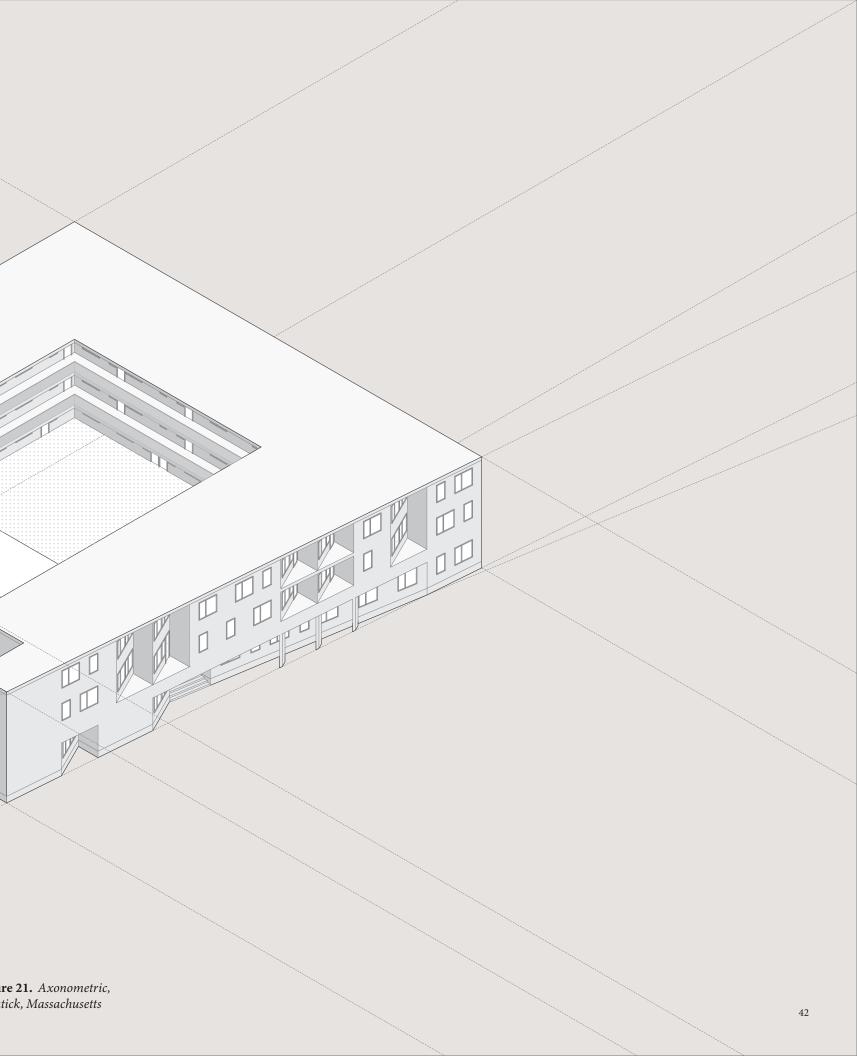


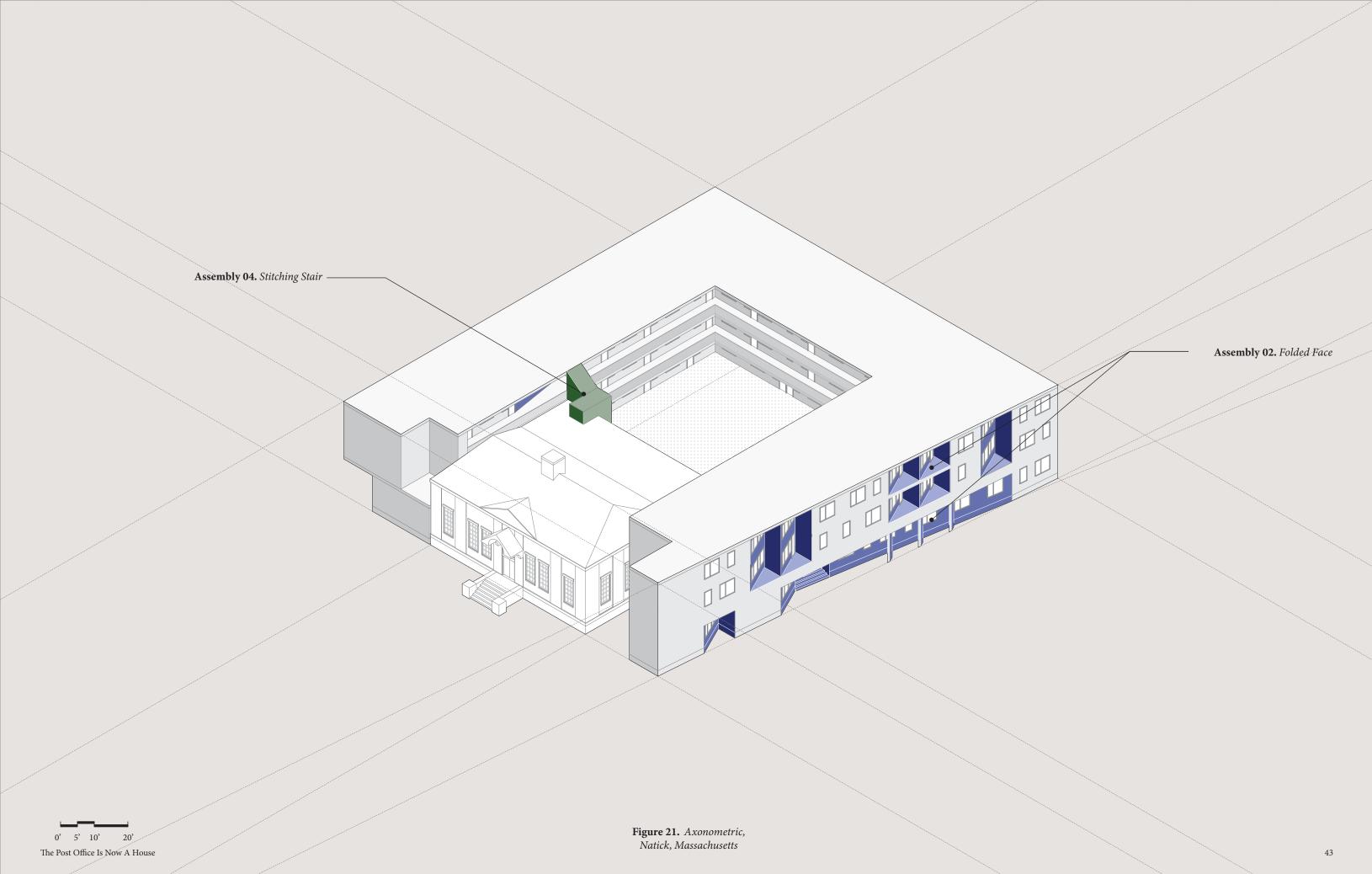


**Figure 21.** Axonometric, Natick, Massachusetts



0' 5' 10' 20' The Post Office Is Now A House **Figure 21.** Axonometric, Natick, Massachusetts



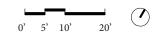




1. Afterschool area, access to second floor reading loft

2.

- 2. Afterschool multipurpose space
- 3. Credit union and post office
- **4.** Post office back of house
- 5. Afterschool space, access to stitching stair
- 6. Courtyard
- 7. Folded face entryway



The Post Office Is Now A House

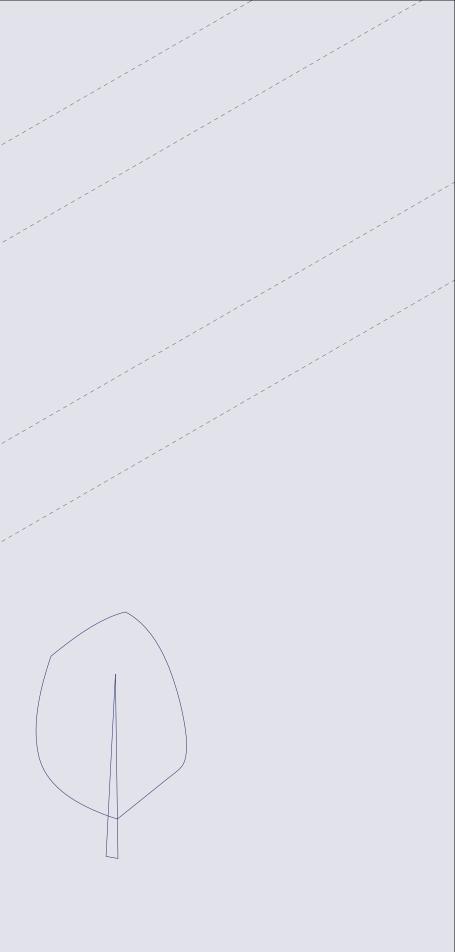
**Figure 22.** *Ground Floor Plan, Natick, Massachusetts* 







**Assembly 02.** Folded Face, Natick, Massachusetts



- Open air corridor
  Kitchen window

- Doorway framing folded wall
  Folded window wall framing view of tree
- 5. Balcony

2.

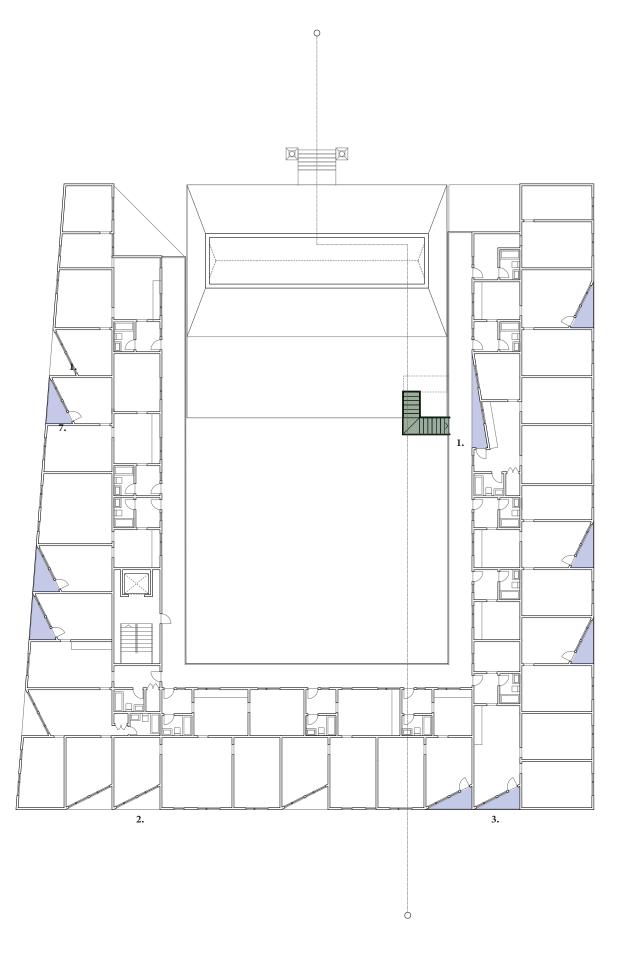
1.

The Post Office Is Now A House



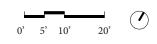






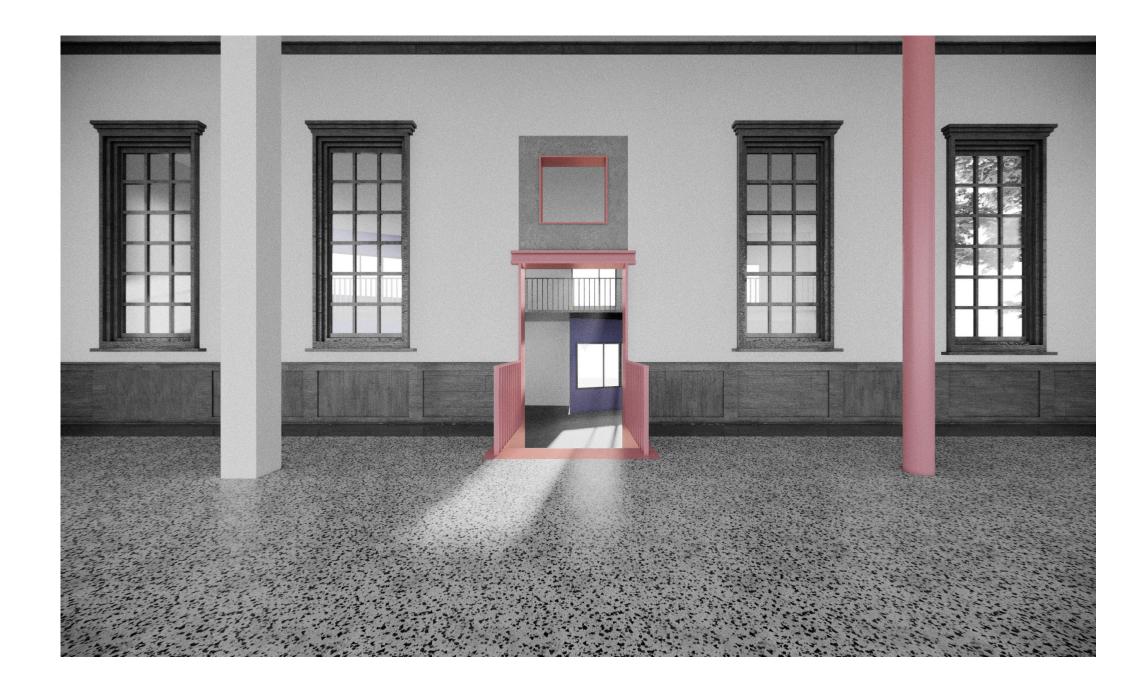
1. Folded face forms apartment entrance

- 2. Folded face frames view of tree
- 3. Folded face forms balcony

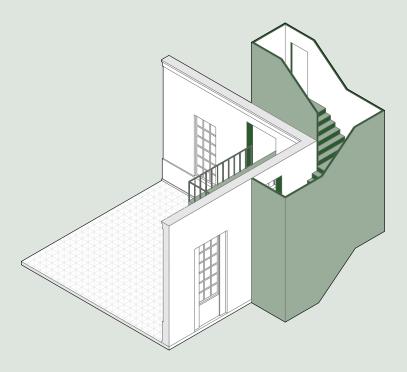


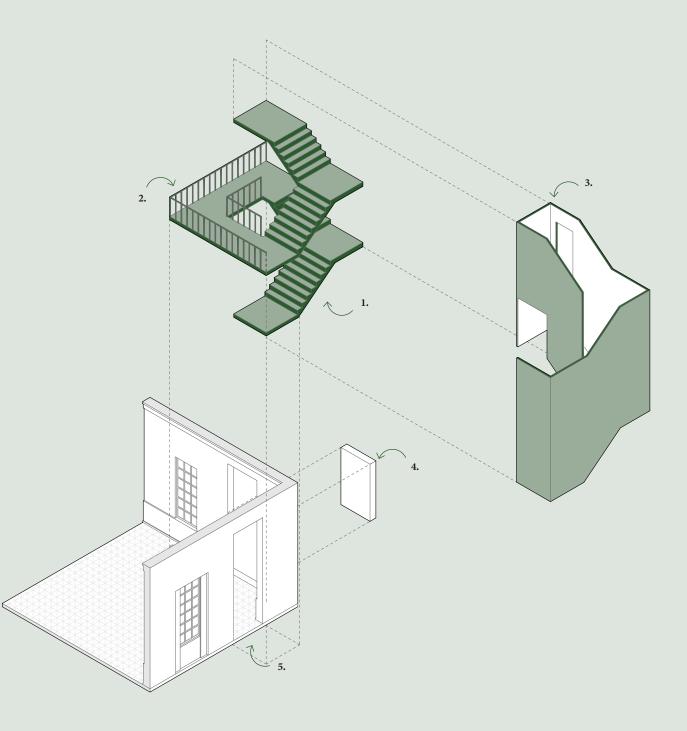
The Post Office Is Now A House

**Figure 23.** Second Floor Plan, Natick, Massachusetts









- New stair, landings enable 1.5 story spaces
  Walkway through existing building
- 3. Stair enclosure
- **4.** Modified existing wall
- 5. Stairwell entrance replaces window

**Assembly 04.** Stitching Stair, Natick, Massachusetts



**1.** Post office and credit union

- 2. Afterschool multipurpose space
- **3.** Folded face entrance near landing of stitching stair
- **4.** Folded face frames view of street and tree

1/16":1'

0' 5' 10' 20' The Post Office Is Now A House



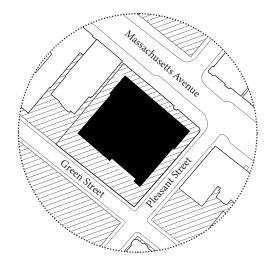


Massachusetts Avenue

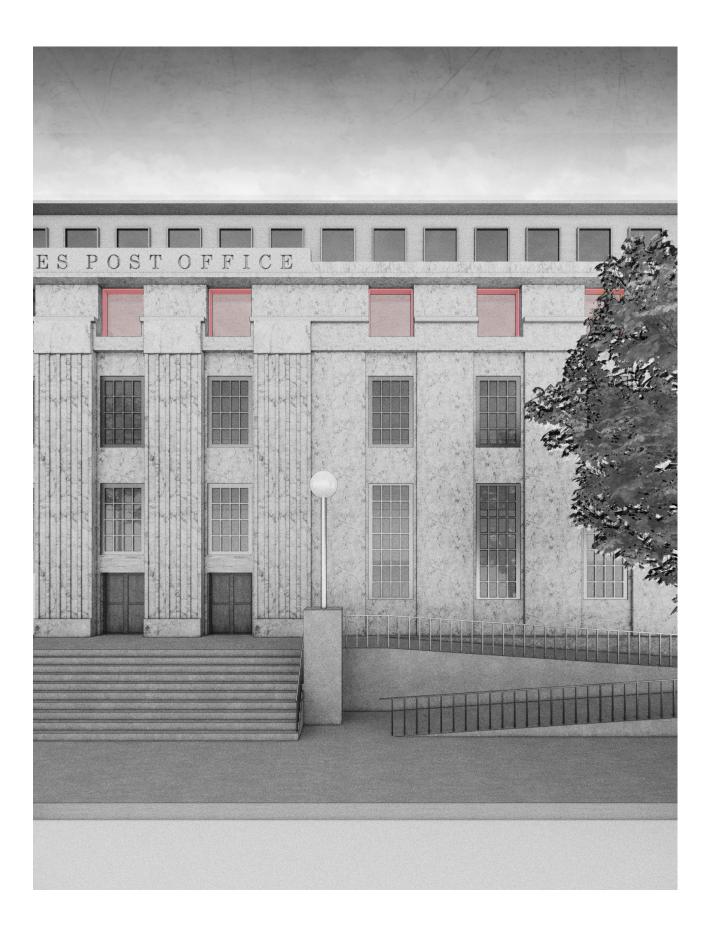


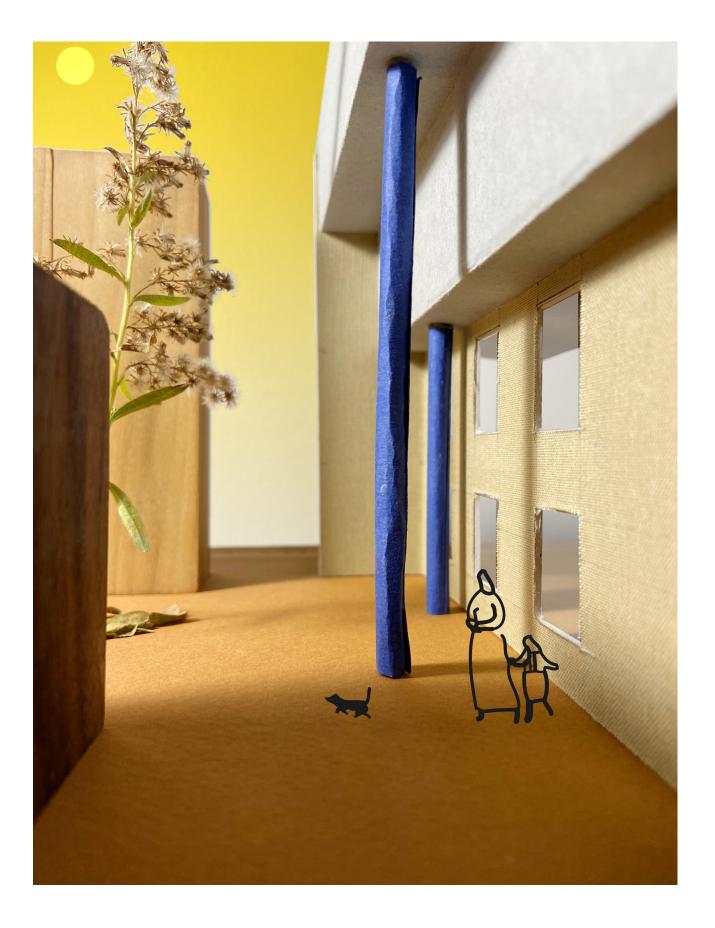
Pleasant Street

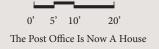
Green Street



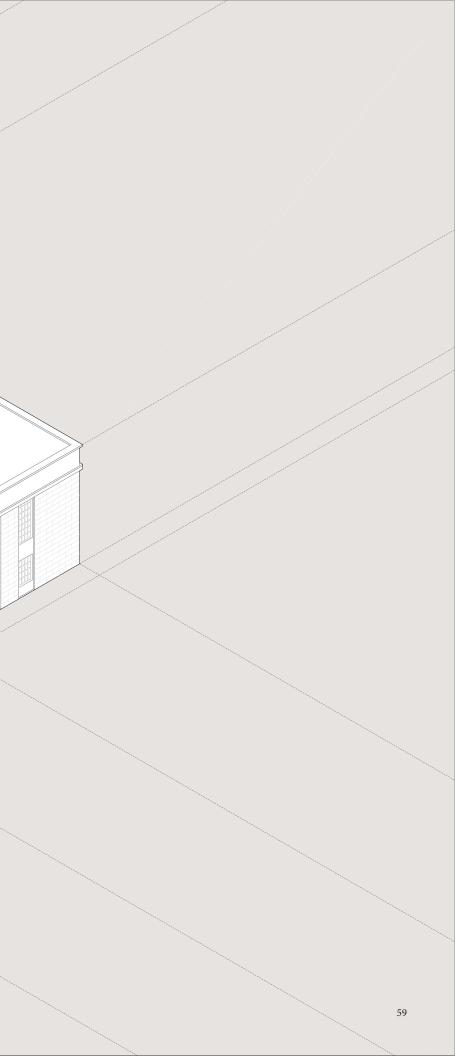


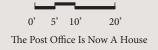




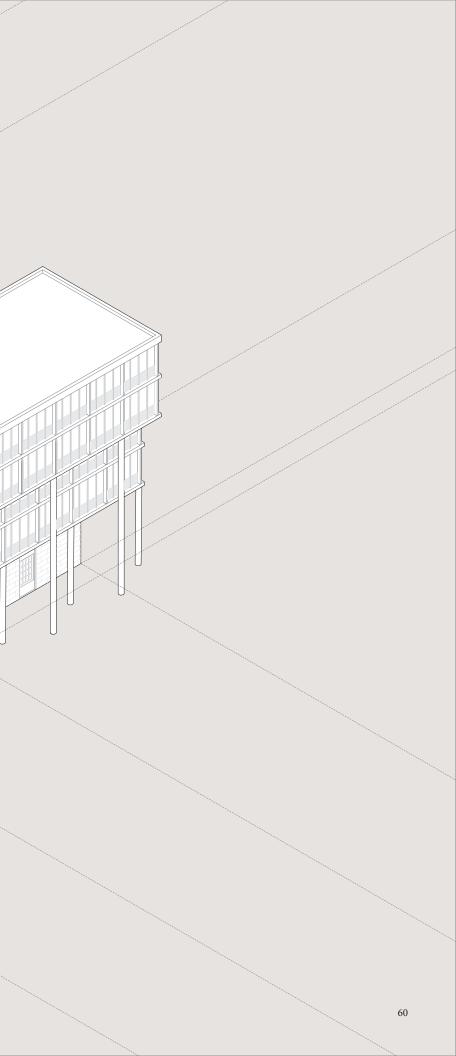


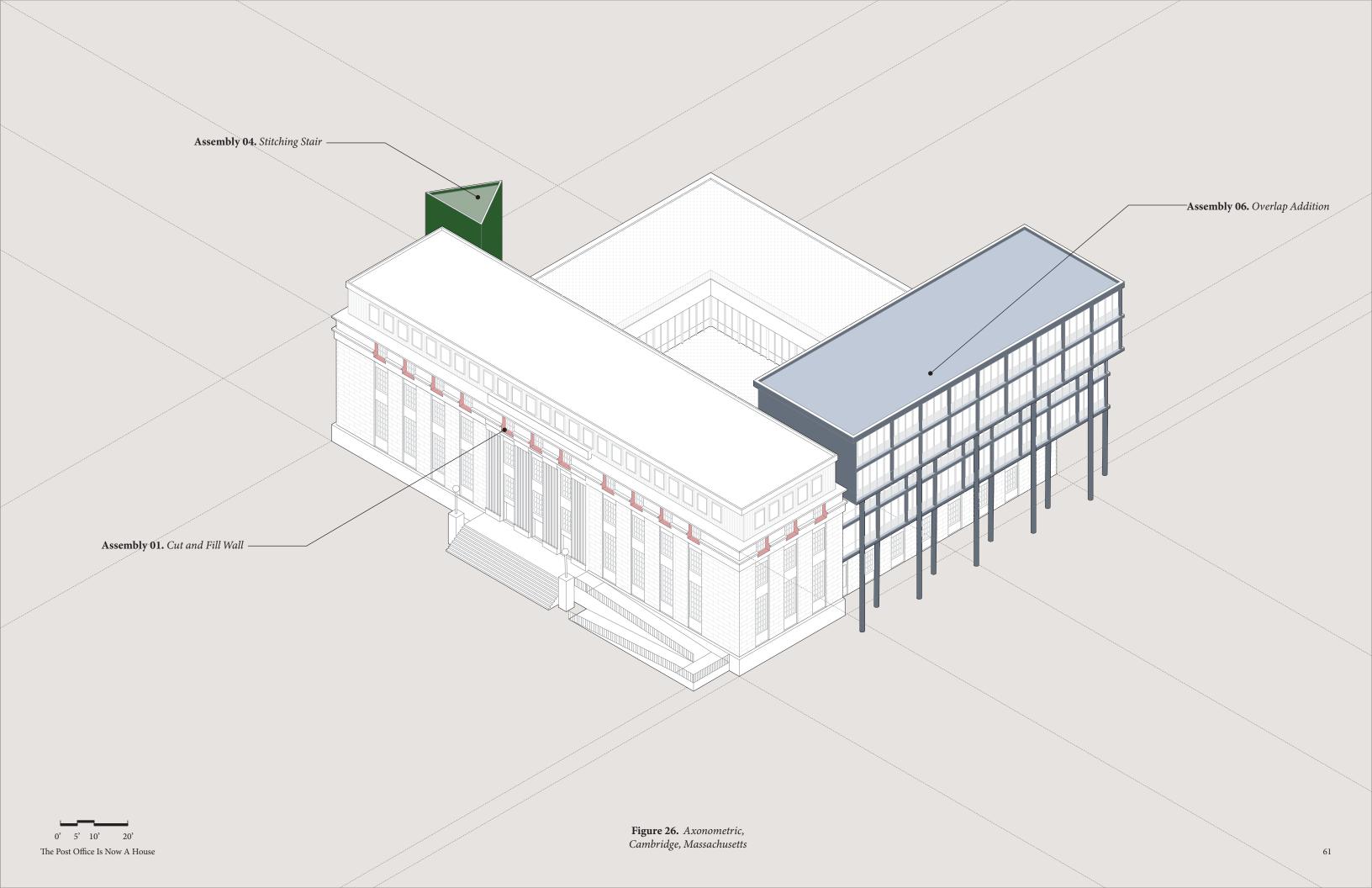
**Figure 26.** Axonometric, Cambridge, Massachusetts

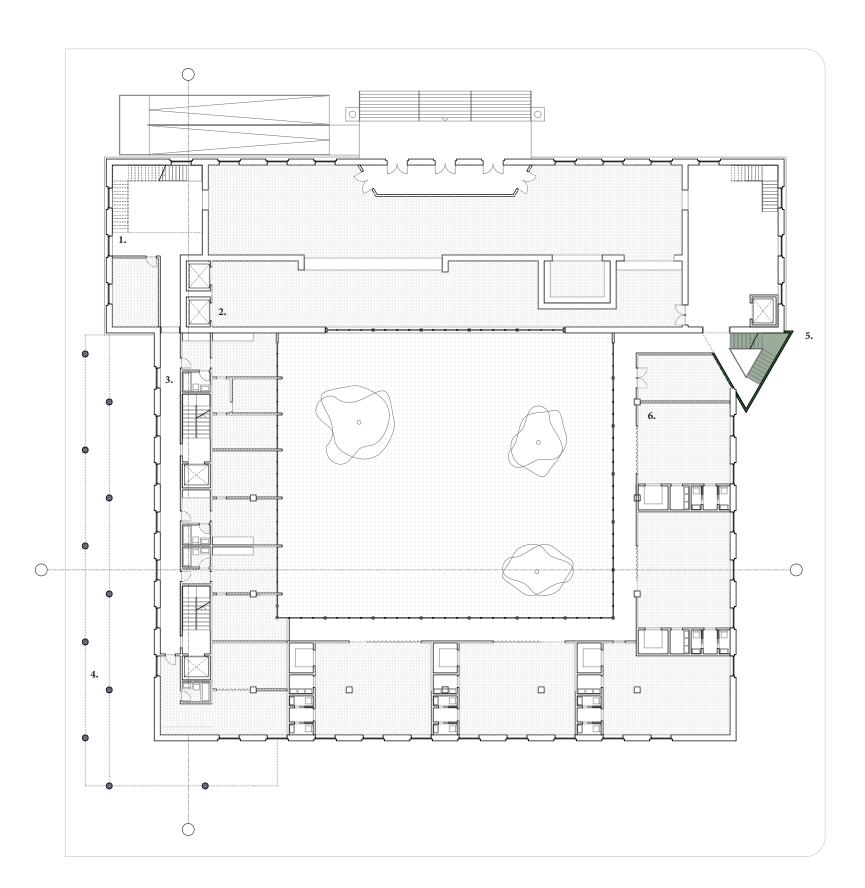




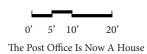
**Figure 26.** Axonometric, Cambridge, Massachusetts







5. Stitching stair provides direct access to pre-school and housing 6. Pre-school

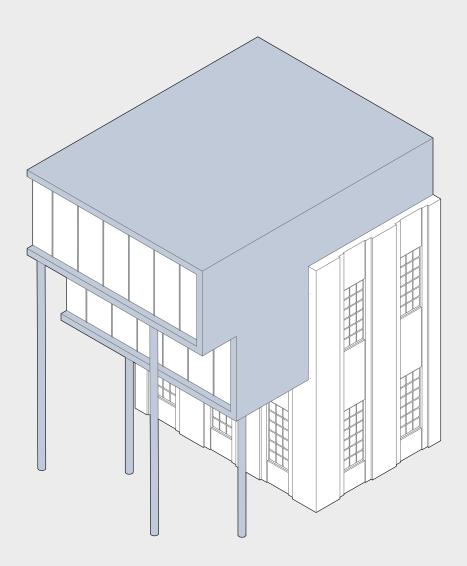


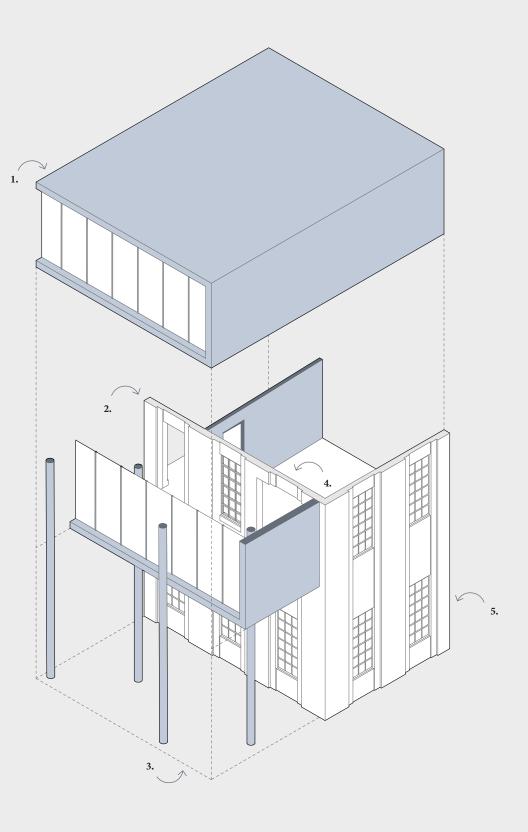
**1.** Access to second floor housing

2. Post office front of house & access to basement facilities

**4.** Columns of the overlap addition visible from housing hallway

3. Stair cores provide direct access to housing

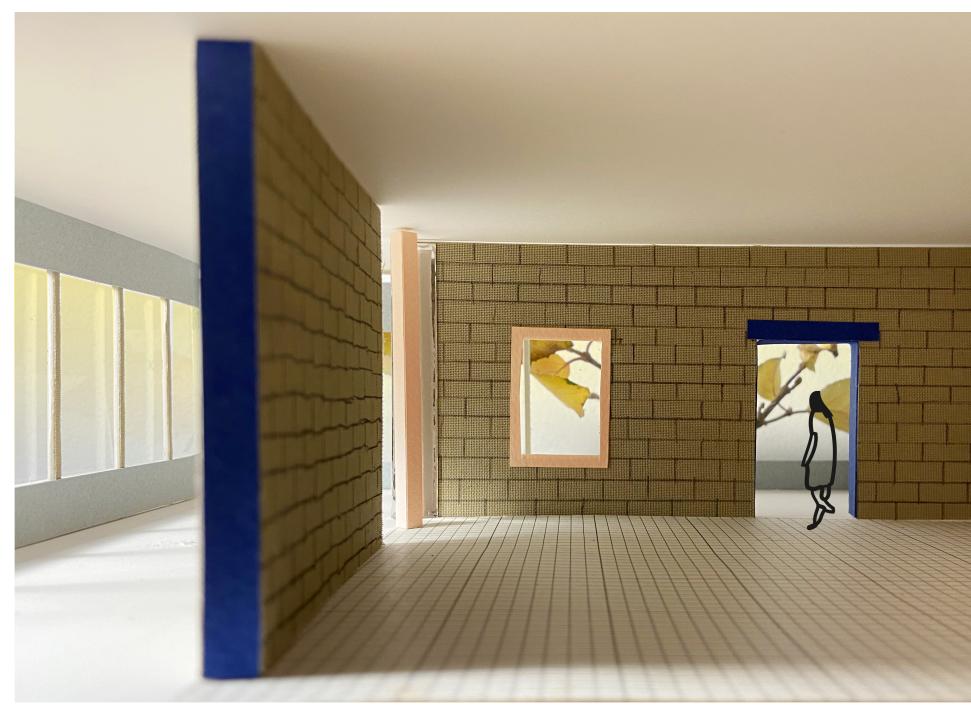




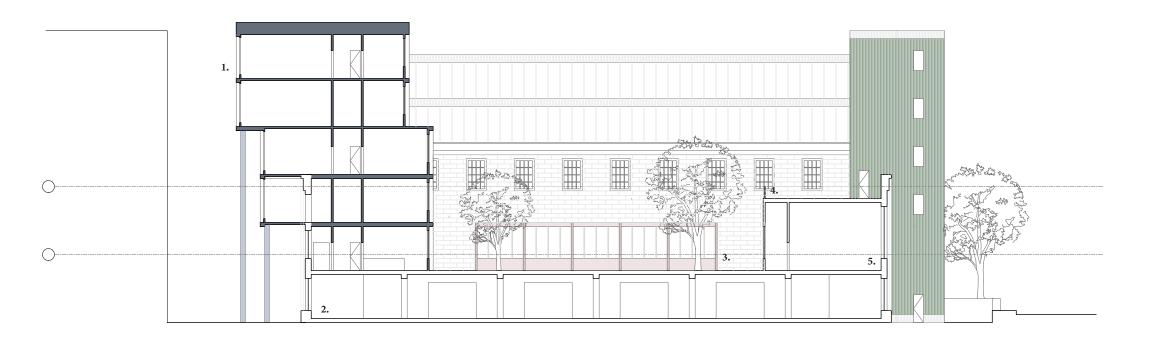
Upper level units
 Overlap level

- 3. Columns supporting overlap form colonnade
- **4.** Existing windows provide openings in overlap
- 5. Ground floor uses uninterrupted

**Assembly 06.** Overlap Addition, Cambridge, Massachusetts

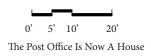


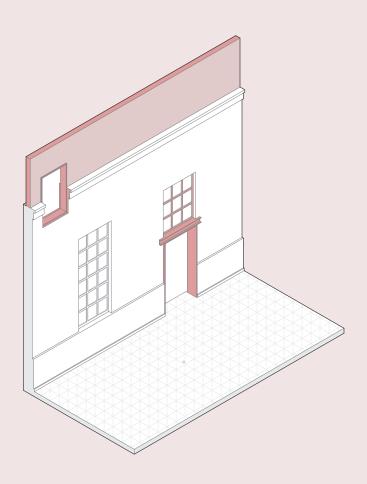


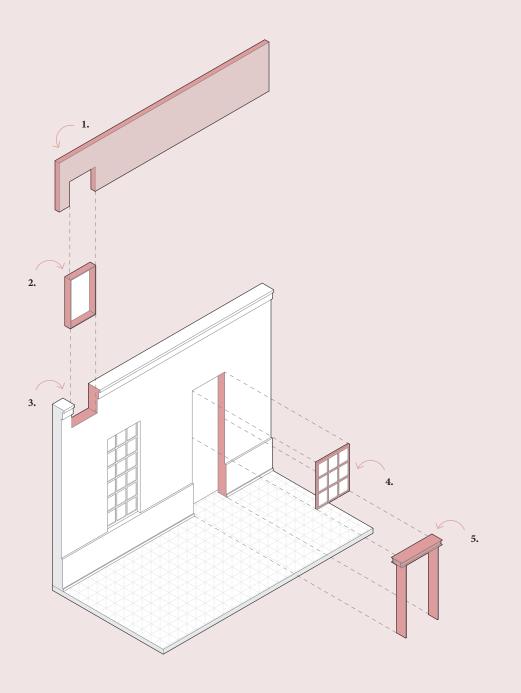


**1.** Overlap addition

- Basement level postal delivery and sorting
  Cut and fill doorways frame view from post office front of house
- 4. Pre-school play terrace
- 5. Pre-school classroom







1. New wall

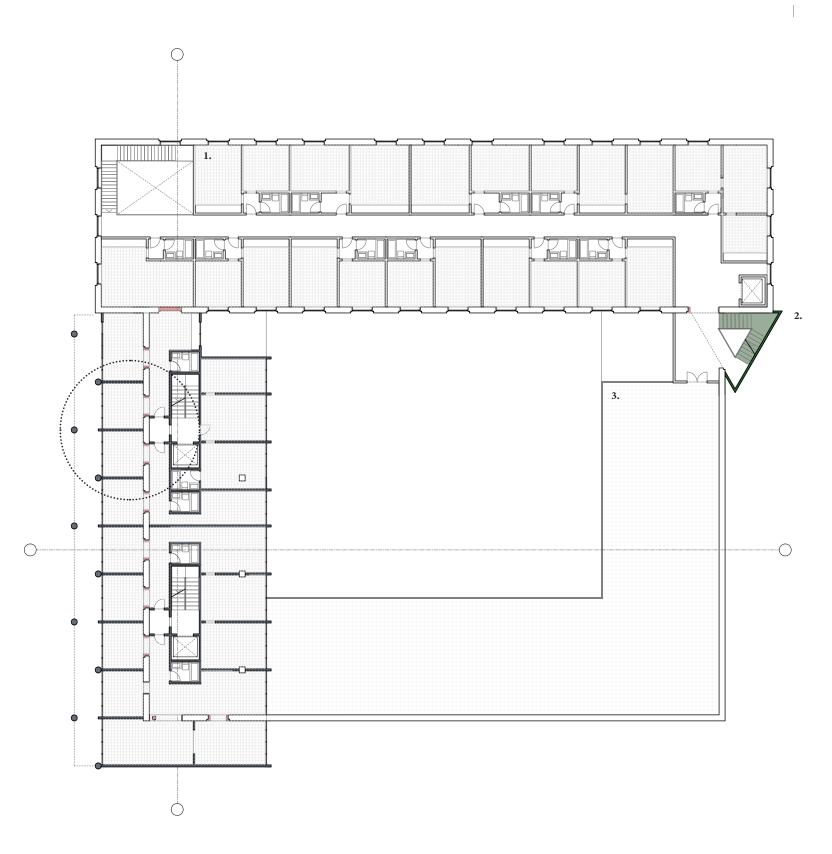
2. Window frame linking new and existing

3. Cut into existing building

**4.** Modified existing window

5. New door frame replaces old window

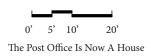
**Assembly 01.** *Cut and Fill Wall, Cambridge, Massachusetts* 



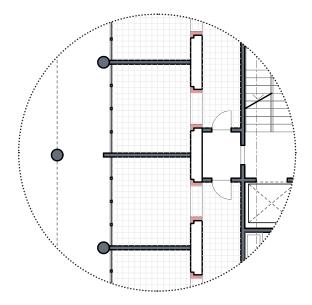
1. Post office office level adapted for 1-bedroom units

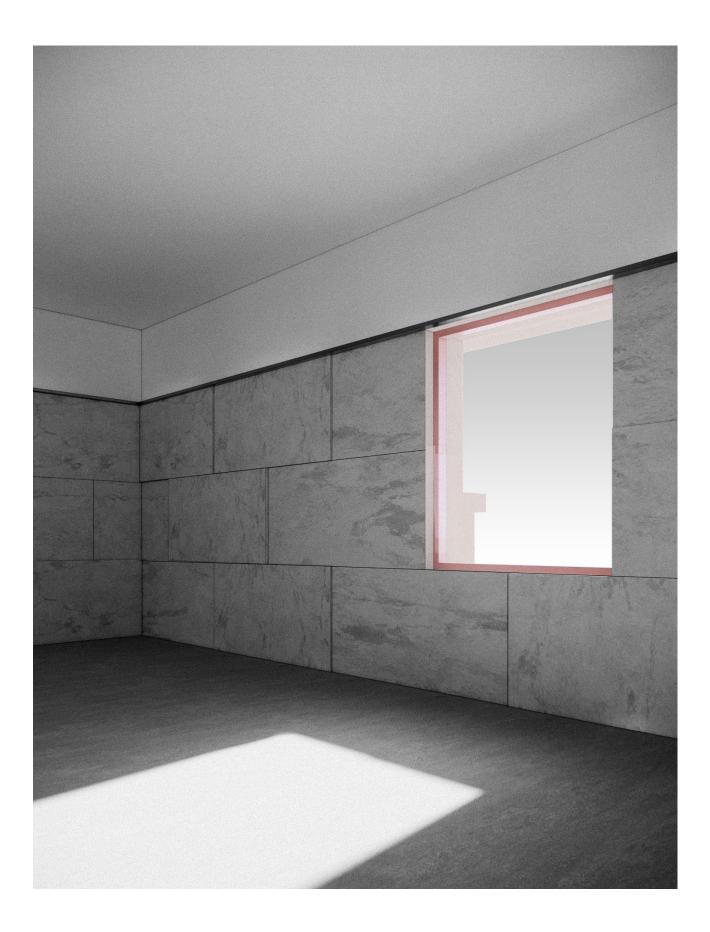
**2.** Stitching stair bridges 6' height difference between front and back of building

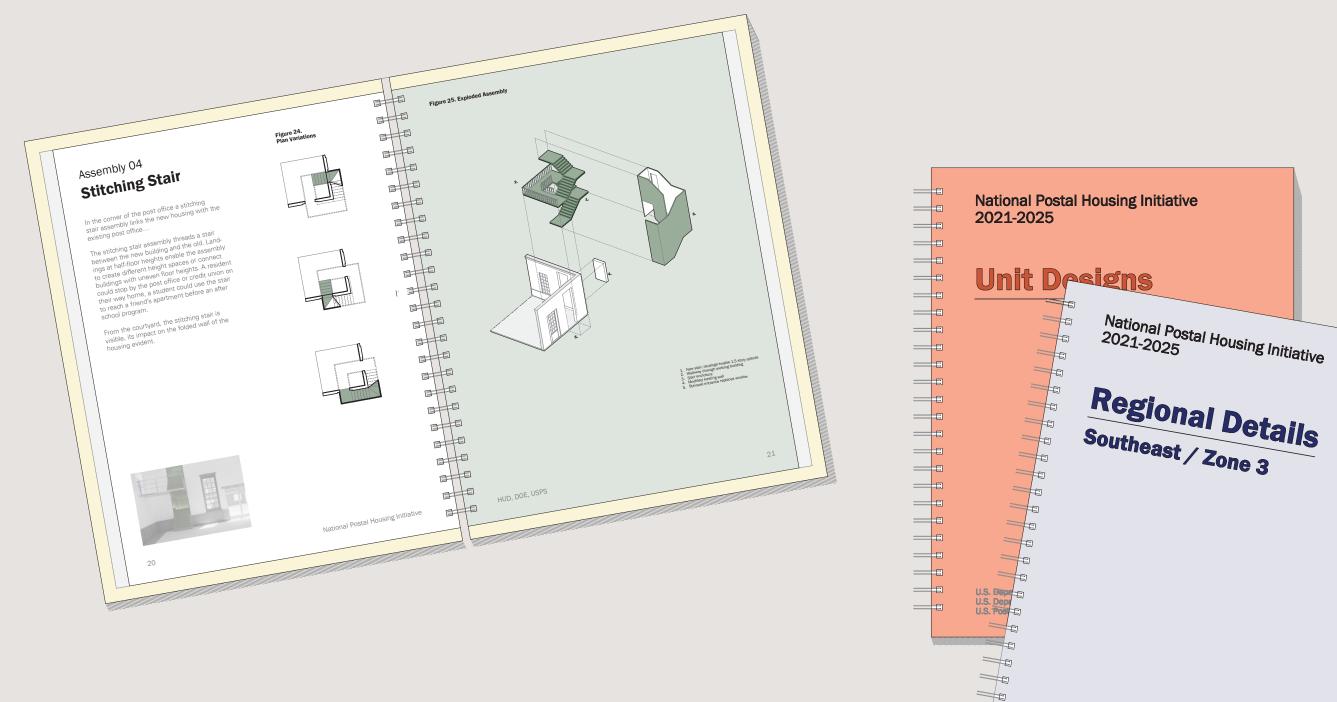
3. Play terrace for preschool



**Figure 29.** Floor 2 Plan Cambridge, Massachusetts







U.S. Department of Housing and Urban Development U.S. Department of Energy U.S. Postal Service

# **Thesis Credits & Sources**

*Citations and attributions are listed below for any work shown in the thesis project that is not exclusively my own.* 

#### Labor

<u>Slides 31, 33, 44, 45</u>

Assistance with plan drafting from Anna Kaertner.

#### Citations

#### <u>Slide 1</u>

*Title references:* Moreno, Joaquim, Tim Benton, Nick. Beech, and Centre Canadien D'architecture. The University Is Now on Air, Broadcasting Modern Architecture. Heijningen : Montréal: Jap Sam Books ; Canadian Centre for Architecture, 2018.

#### <u>Slide 3</u>

*Figures:* USPS. FY2019 Annual Report to Congress. [Washington, D.C.]: 2019, 14, 15.

*Map Layer:* "USPS Post Offices Map," SSH1: Carto DB. https://nyu. carto.com/u/ssh1/builder/d1a0fad9-5c1d-4bf6-b427-95bc0d465ffa/

#### <u>Slide 4</u>

*Sources for Chart Data*: United States Postal Service Office of Real Estate. History of Post Office Construction 1900-1940. Washington D.C.: July 1982.

*Sources for Chart Data:* URS Group, Inc. Draft Report: USPS Nationwide Historic Context Study: Postal Facilities Constructed or Occupied Between 1940 and 1971. Prepared for U.S. Postal Service, September 2012.

*Images*: Craig, Lois A., and Federal Architecture Project. The Federal Presence : Architecture, Politics, and Symbols in United States Government Building. Cambridge, Mass.: MIT Press, 1978.

#### <u>Slide 5</u>

*Left:* Rhodes, Steve. "Save the People's Post Office protest at National Postal Forum in San Francisco." Licensed under CC BY-NC-ND 2.0. Accessible at https://search.creativecommons.org/photos/4d9d2a77-c757-463d-a103-2058834c9850.

*Right:* Lewis, Scott. "Amazon Warehouse." Licensed under CC BY 2.0. Accessible at https://search.creativecommons.org/photos/4652a4e6-62a4-40d7-ac6f-079286924170.

#### <u>Slide 7</u>

U.S. Congress. House. Recognizing the duty of the Federal

Government to create a Green New D¬eal. HR 109. Introduced in House February 12, 2019. https://www.congress.gov/bill/116thcongress/house-resolution/109/text.

#### <u>Slide 8</u>

U.S. Congress. House. Homes for All Act of 2019. HR 5244. Introduced in House November 21, 2019. https://www.congress.gov/ bill/116th-congress/house-bill/5244/text?r=6&s=1 <u>Slide 9</u>

Note: Drawing style references the Starter Home project by OJT. OJT Architects. "Starter home." Accessible at: https://www.officejt.com/ our-work/starter-home

### <u>Slide 10</u>

Young, Ammi B. Plans of Public Buildings in Course of Construction under the Direction of the Secretary of the Treasury including the Specifications Thereof. Nos. L, 5, 7-8, 11-18, 21, 25-26, 28-38 and 9 Unnumbered. Washington, 1855. ¬

#### <u>Slide 11</u>

Plan drawing based on the plan of the 1936 Mesa, Arizona post office. Scans of original Treasury Department drawings received courtesy of Ronald Peters / Historic Streetscapes, Mesa, Arizona.

### <u>Slide 12</u>

URS Group, Inc. Draft Report: USPS Nationwide Historic Context Study: Postal Facilities Constructed or Occupied Between 1940 and 1971. Prepared for U.S. Postal Service, September 2012. Plans from Building Designs, 1959, page 47.

### <u>Slide 13</u>

United States Postal Service. Handbook AS-503 Standard Design Criteria. Washington D.C.: United States Postal Service, 2010, 13, 26, 9.

#### <u>Slide 18</u>

Montague: Google. Street view Images of Montague Post Office. 2020.

Natick: Ebay, "Post Office Natick Massachusetts Postcard MA Vintage Unposted/" https://www.ebay.com/itm/Post-Office-Natick-Massachusetts-Postcard-MA-Vintage-Unposted-/233184470237

*Cambridge*: Digital Commonwealth, "Cambridge's new \$1,000,000 post office, the city's first federal building which will be formally dedicated Tuesday night." Cambridge Historical Commission, 1935. Accessible at: https://www.digitalcommonwealth.org/search/commonwealth:wd377744q.

<u>Slide 19</u>

Plans drawn based on Google Maps aerial views.

### <u>Slide 20</u>

#### Plans drawn based on following sources:

*Montague*: URS Group, Inc. Draft Report: USPS Nationwide Historic Context Study: Postal Facilities Constructed or Occupied Between 1940 and 1971, page 72, 51.

*Natick*: New deal post office plans from Ronald Peters / Historic Streetscapes, Mesa, Arizona.

*Cambridge*: United States Department of the Interior. National Register of Historic Places Inventory: Nomination Form for Central Square Post Office, Cambridge, MA. May 12, 1986.

#### <u>Slides 21, 38, 56</u>

Streetview photos from Google Maps.

<u>Slides 27, 32, 45, 51, 58, 65</u>

## Note: Scale figures from an entourage file. Source unknown.

#### Additional Works Referenced in Developing the Thesis:

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Craig, Lois A., and Federal Architecture Project. *The Federal Presence* : *Architecture, Politics, and Symbols in United States Government Building.* Cambridge, Mass.: MIT Press, 1978.

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United States Department of the Treasury. "Mesa, Arizona Post Office Drawing Set." Washington D.C.: 1937. Provided by Ronald Peters of Historic Streetscapes, Mesa, Arizona.

United States Postal Service Office of Real Estate. History of Post Office Construction 1900-1940. Washington D.C.: July 1982.

URS Group, Inc. *Draft Report: USPS Nationwide Historic Context Study: Postal Facilities Constructed or Occupied Between 1940 and 1971.* Prepared for U.S. Postal Service, September 2012.