

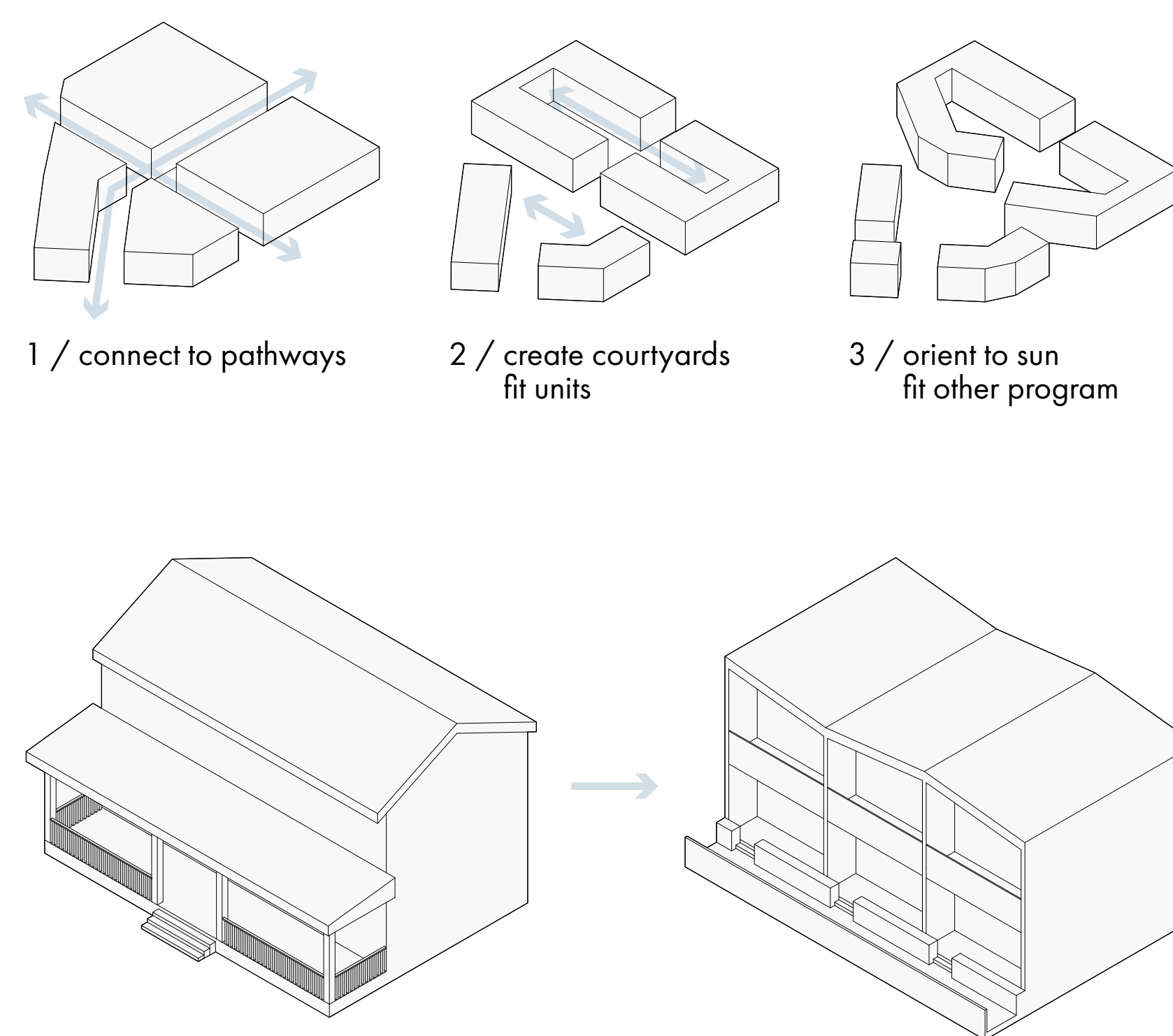


LAKE VILLAGE

MIXED-USE DOWNTOWN LIVING

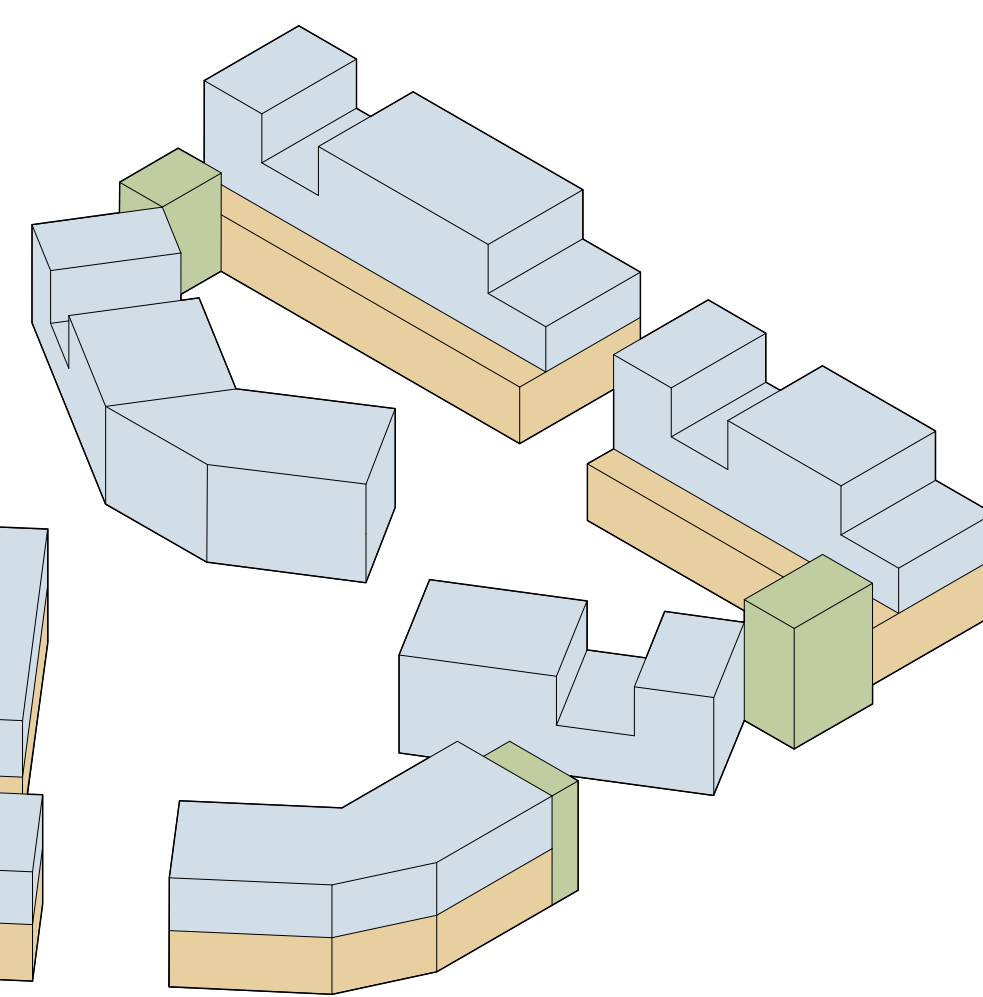
ali chen / studio macdonald / arch 353 / spring 2019

Lake Village is a mixed-used workforce housing complex on the western edge of downtown East Village. Commercial spaces, such as retail shops and cafés, line the perimeter of the site with housing units sitting above. Pathways through the site connecting to the public walkways with the idea of the front porch creates a village-like social intimacy between the residents and the community. The site is broken into three clusters that surround a courtyard, and each building block creates a mini neighborhood within the site and downtown.



residential units
commercial spaces
egress cores

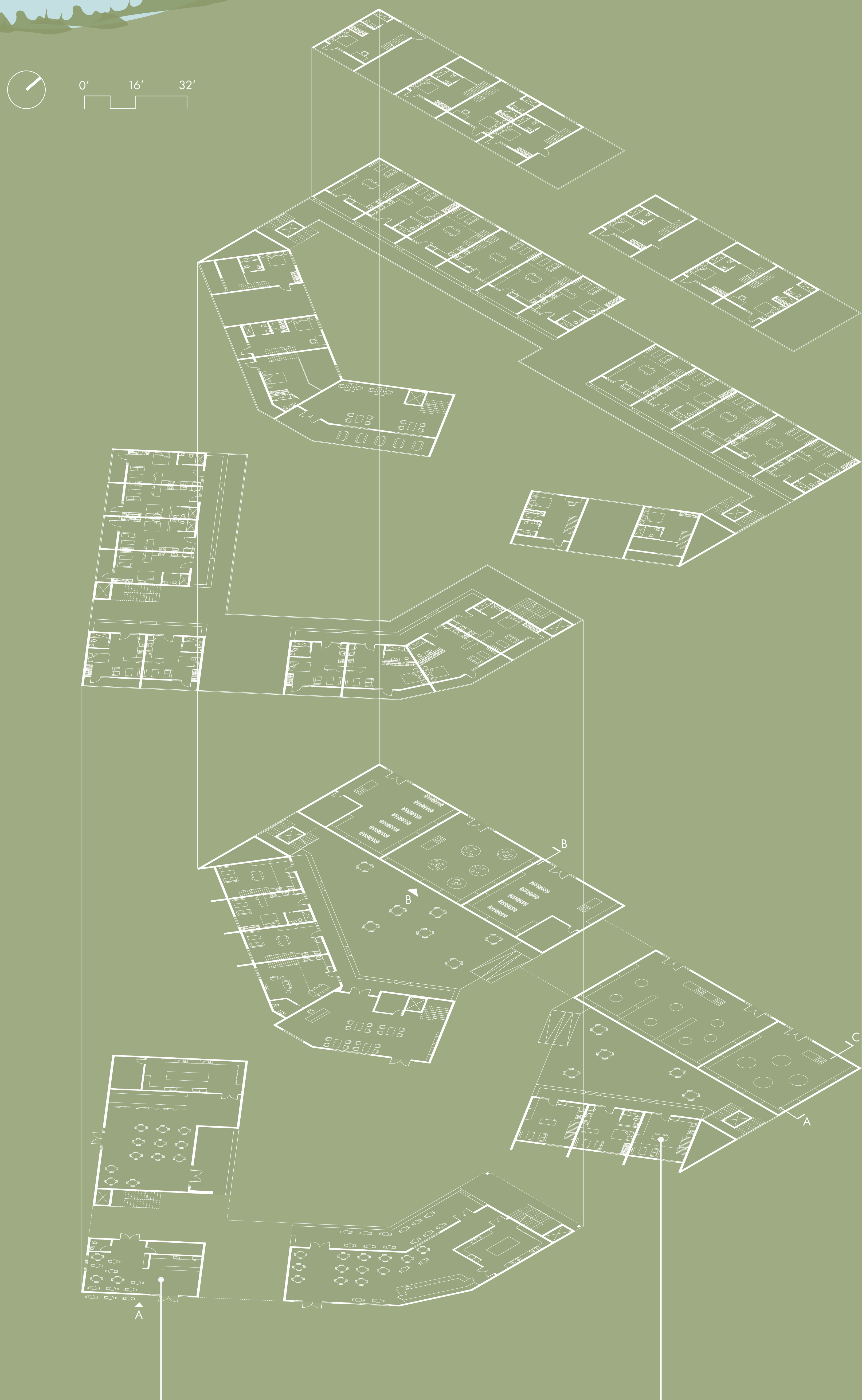
PROGRAM /
8,000 sf commercial
27,000 sf residential
28 residential units



360 panoramas / daytime

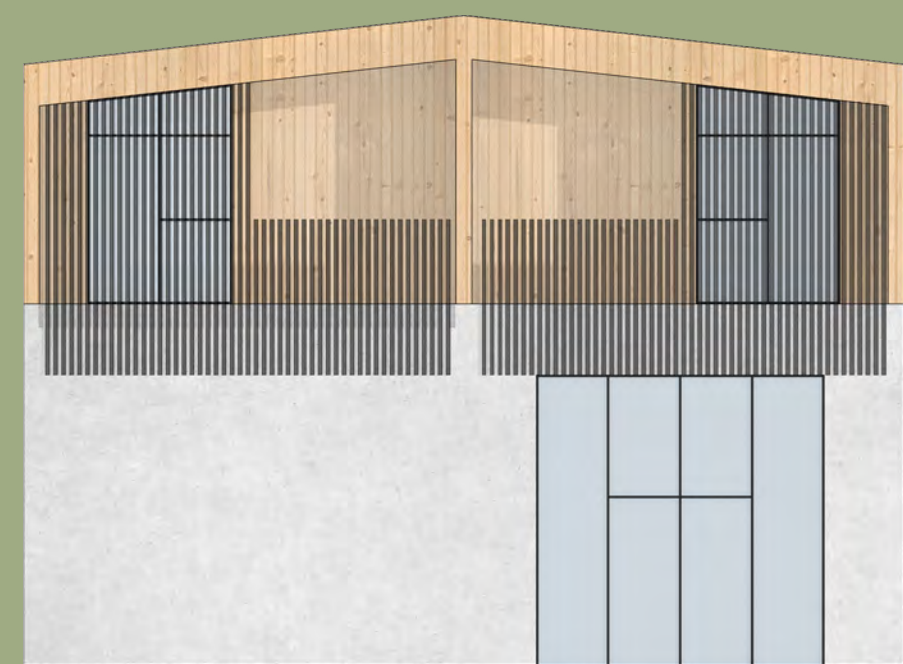


360 panoramas / sunset



ELEVATIONS

0' 8' 16'



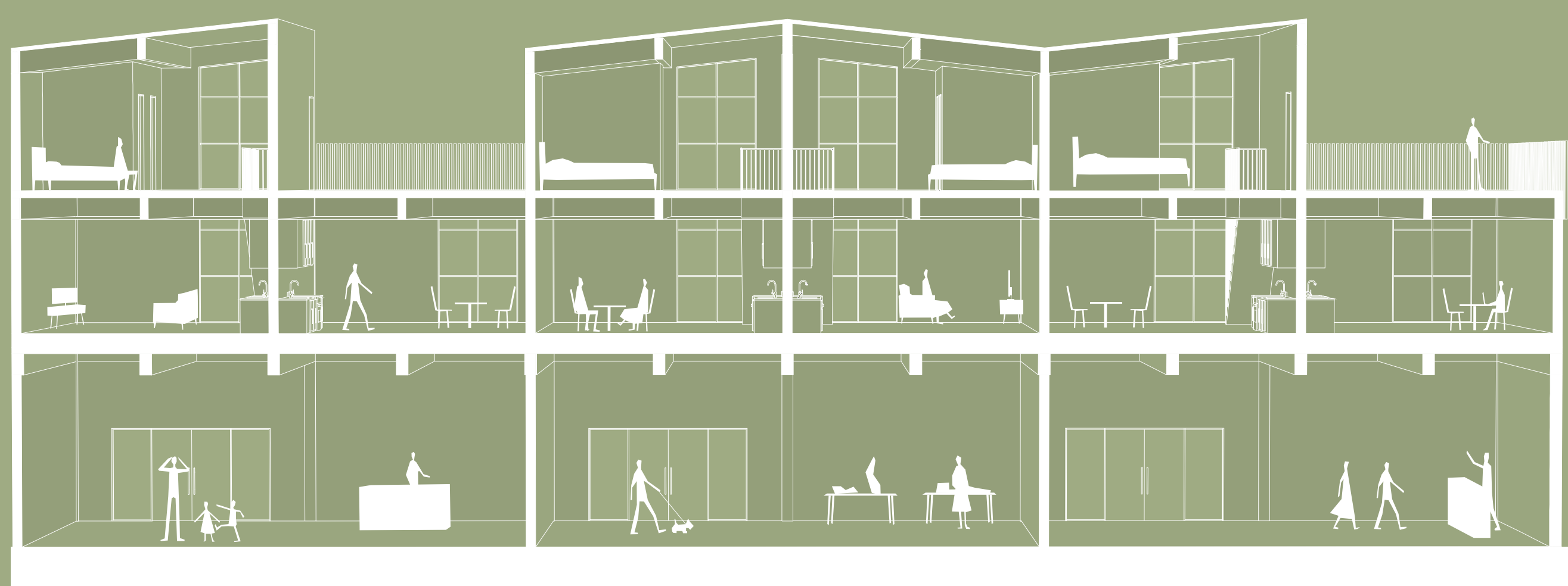
ELEVATION A



ELEVATION B

SECTIONS

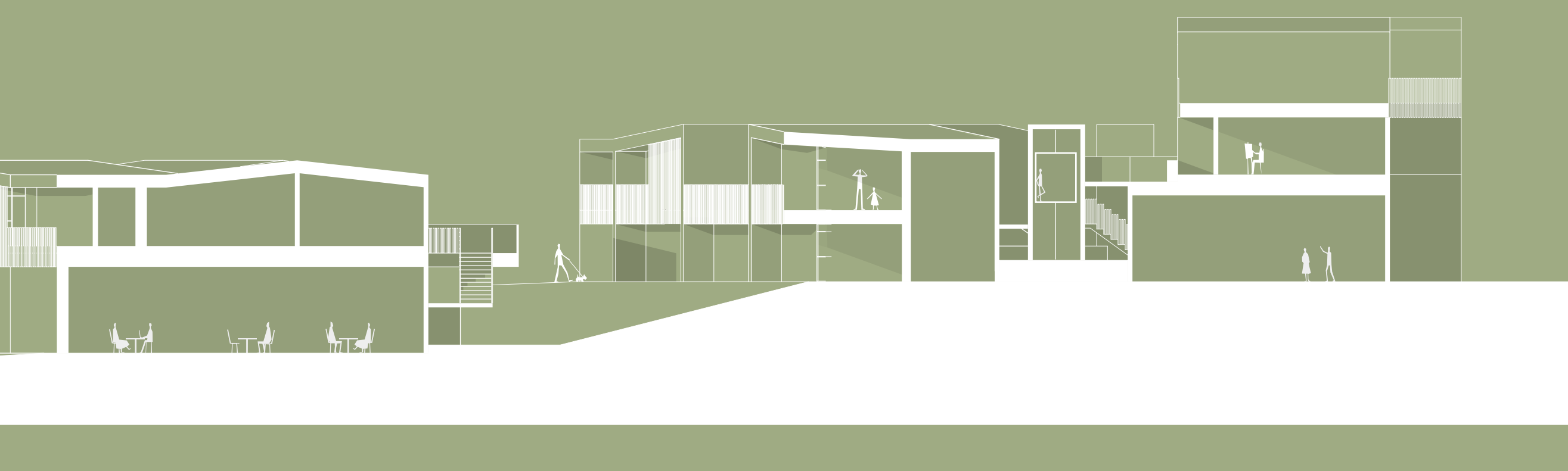
SECTION A



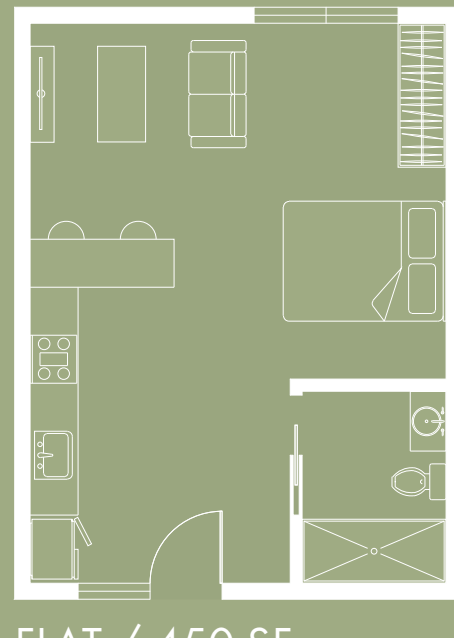
SECTION B



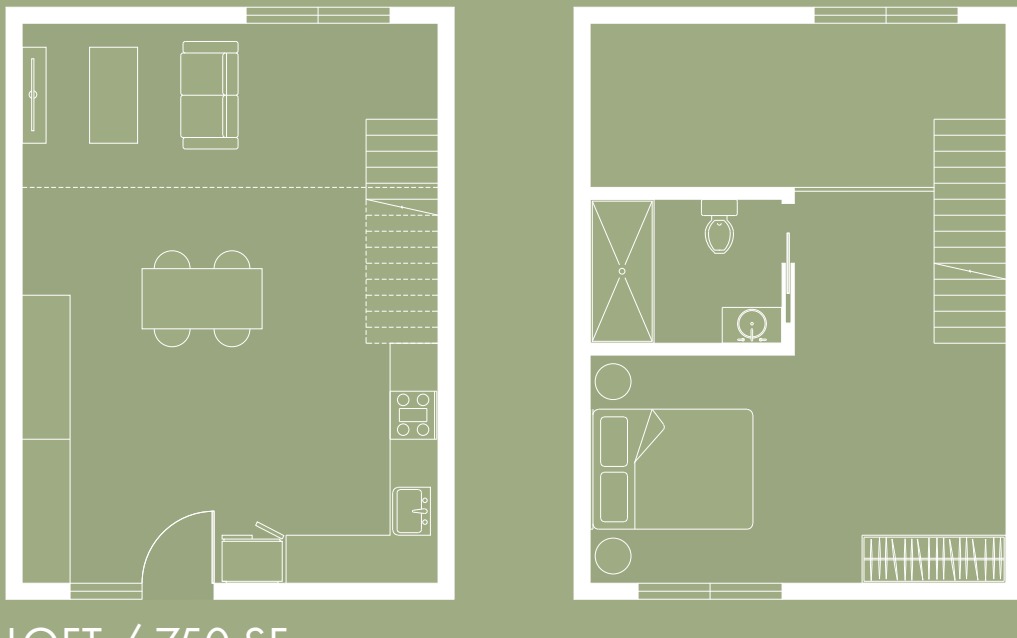
SECTION C



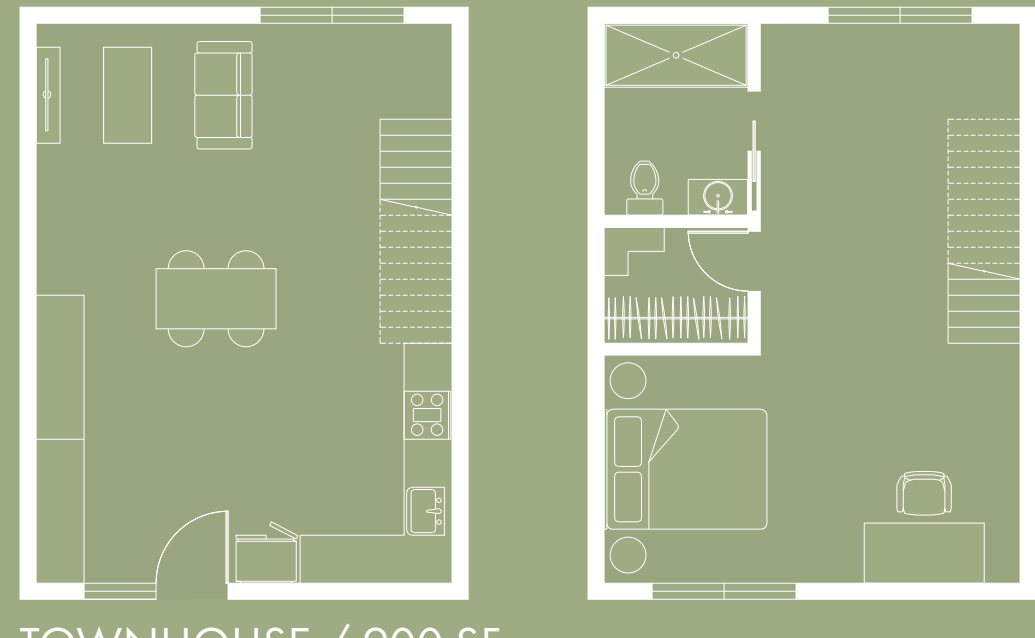
UNIT PLANS



FLAT / 450 SF



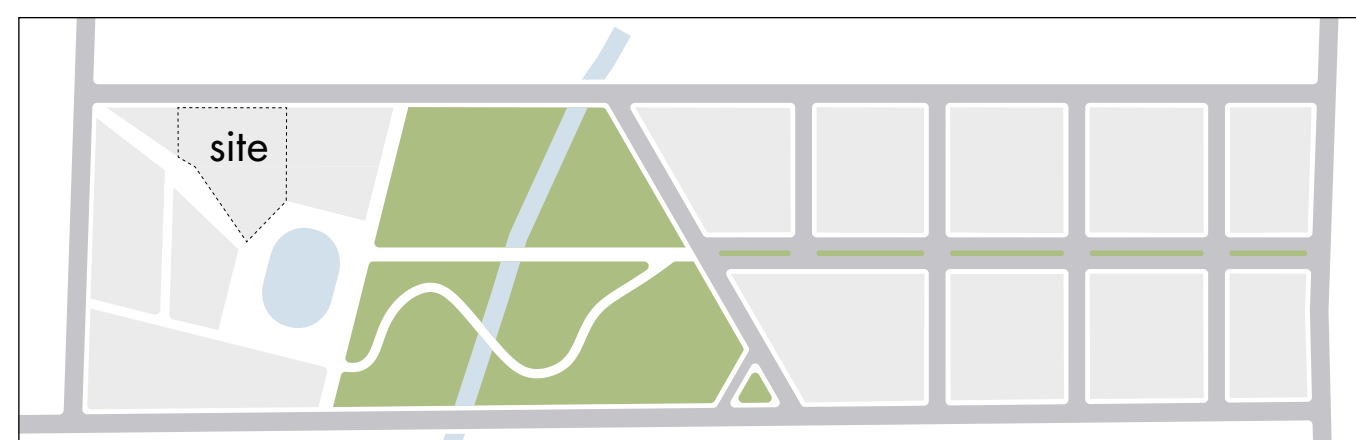
LOFT / 750 SF



TOWNHOUSE / 900 SF

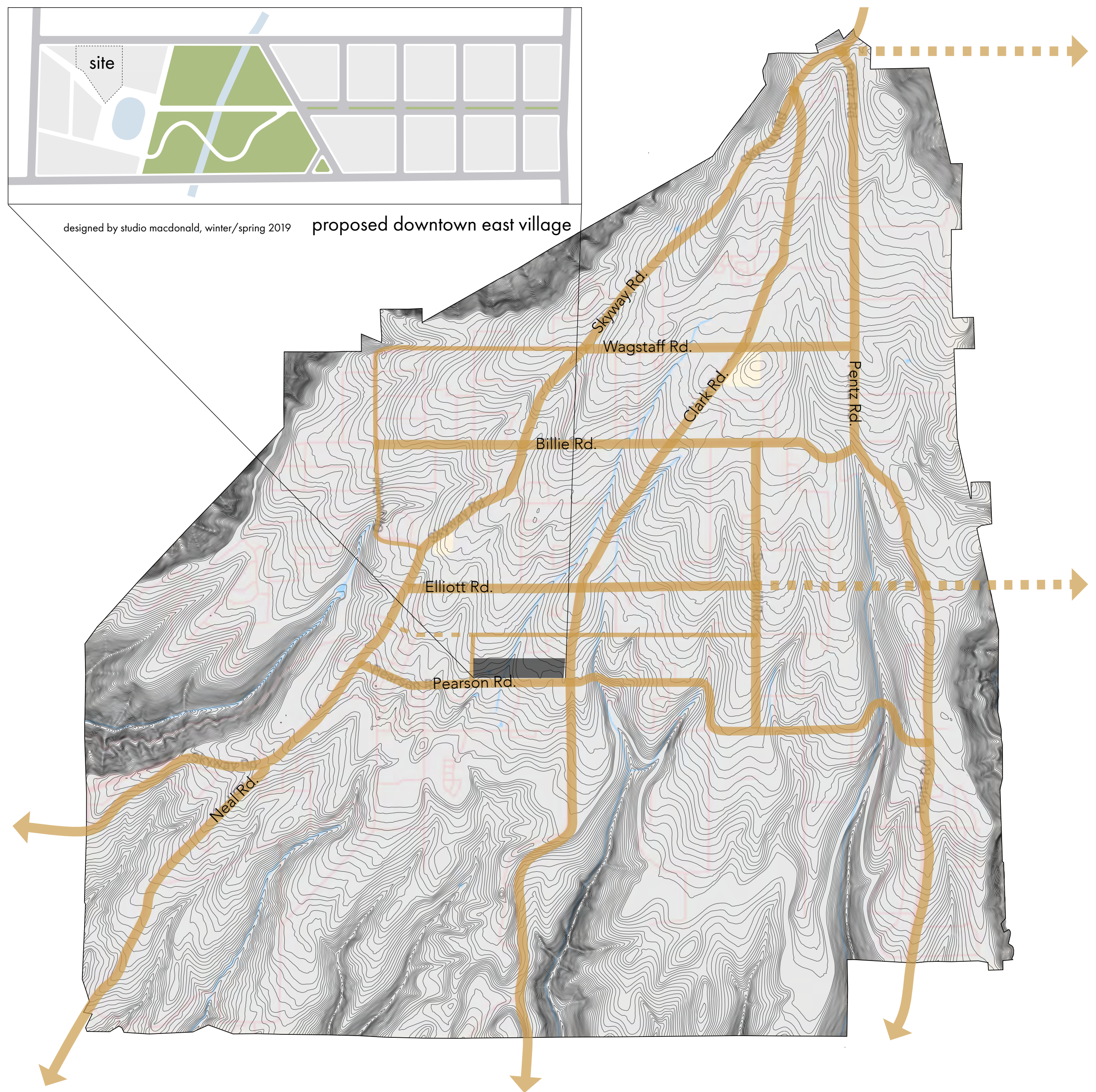


SITE



designed by studio macdonald, winter/spring 2019

proposed downtown east village



SUSTAINABILITY & FIRE

GREEN ROOF /
good for stormwater management, a natural insulator, which reduces energy costs. creates a connection with natural environment.

FIBER CEMENT SIDING /
a mix of cement, sand, recycled wood fiber. can maintain the natural aesthetic of wood grain while staying very durable, fire resistant, and weather resistant. good thermal resistance, which prevents heat transfer.

CONCRETE /
a non-combustible building material. its thermal mass properties allow for solar heat gain during colder months, which reduces energy costs.

CLT (CROSS LAMINATED TIMBER) /
renewable & very sustainable. due to carbon sequestration properties of timber. stronger than typical light frame wood construction. char layer provides fire resistance, prevents further degradation, and keeps structural integrity intact. a good insulator, which reduces energy costs. creates a connection with the natural environment

RADIANT HEATING /
uses less energy & is more efficient than air-based systems, which reduces energy costs.

NATURAL VENTILATION /
operable windows on opposite sides of the room allows the space to be passively cooled, which reduces energy costs.

WALL SECTION

ROOF ASSEMBLY /
3" growing medium
protection mat
drainage layer
2" insulation

FLOOR ASSEMBLY /
3-7/16" CLT panel
6-5/4"x18" glulam beams, 9' o.c.
10"x10" glulam columns
1" gypsum board

WALL ASSEMBLY /
5/16" fiber cement siding
1" air gap
girt system
4" insulation
water resistant barrier
5-7/16" CLT panel
operable glazing

FLOOR ASSEMBLY /
4" radiant concrete floor
8" rigid insulation
5" concrete slab
10"x18" concrete beams, 9' o.c.
10"x10" concrete columns

WALL ASSEMBLY /
5/8" stucco
4" insulation
8" concrete wall

