PLUG IN(fill)
reimagining the role of mobile housing

Suburban sprawl creates fragmented cities through growth at the fringe. How can alternative housing stratagies be implemented in order to counteract the commuter based lifestyle of suburbia?

2000 | 1,337,000 people

2002 | 1,414,000 people

2004 | 1,496,000 people

2006 | 1,582,000 people

2008 | 1,674,000 people

2010 | 1,771,000 people

2012 | 1,873,000 people

2014 | 1,981,000 people

2016 | 2,096,000 people

2018 | 2,217,000 people

2020 | 2,320,000 people

2022 | 2,413,000 people
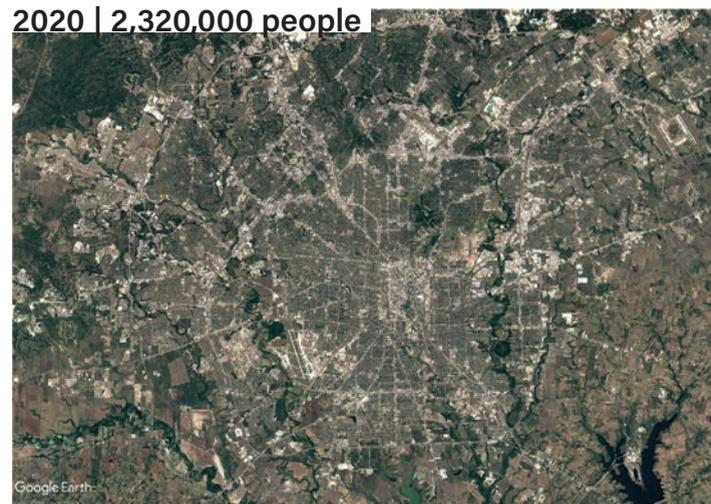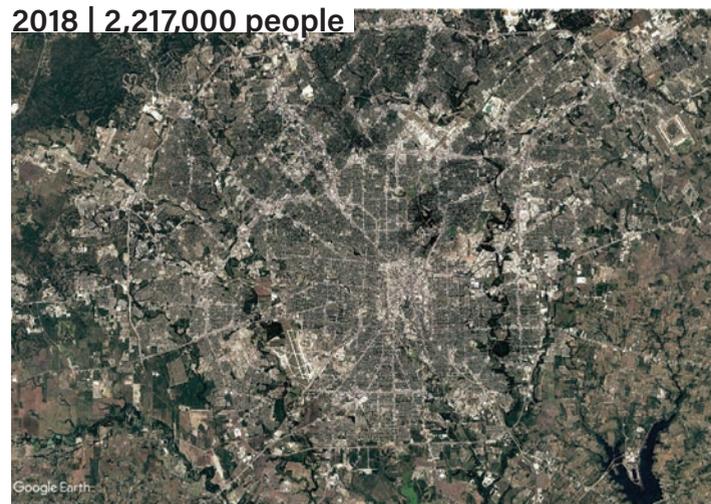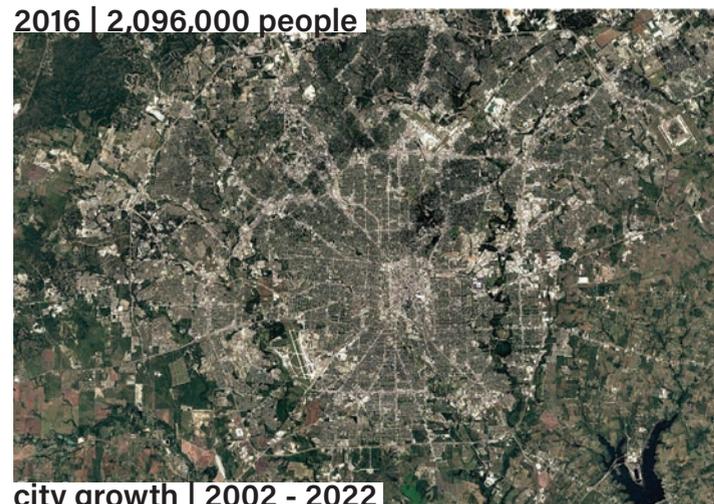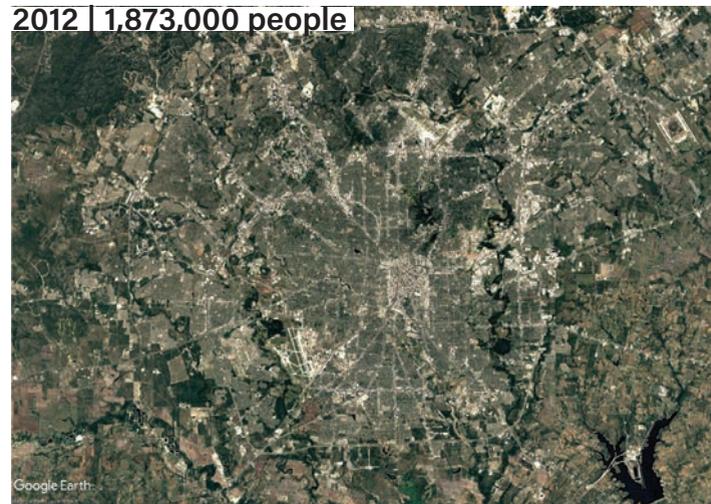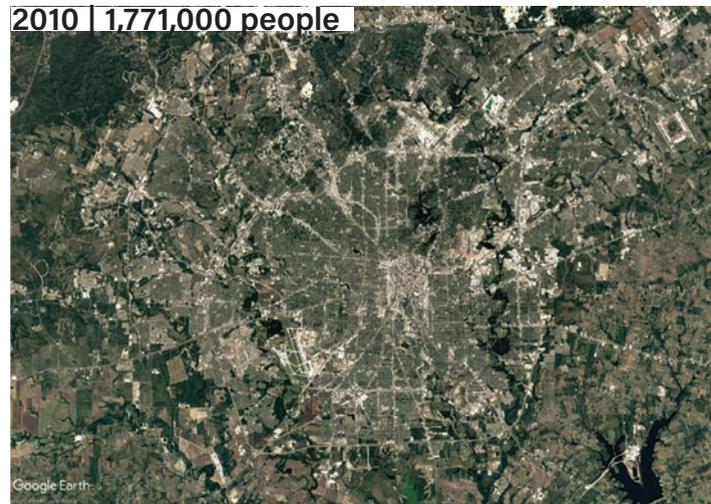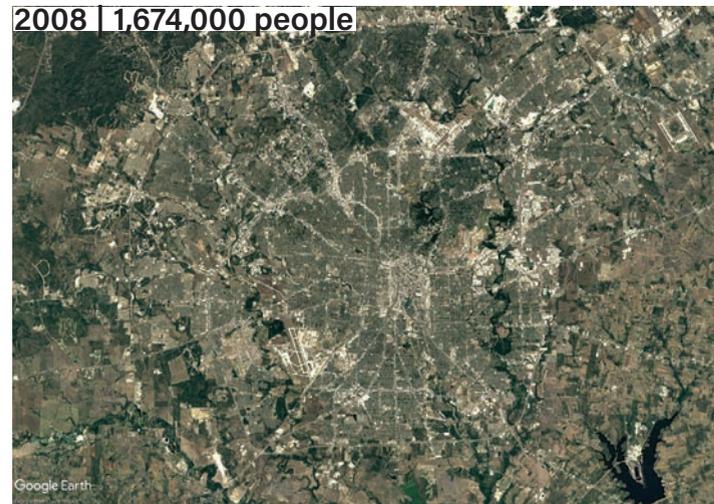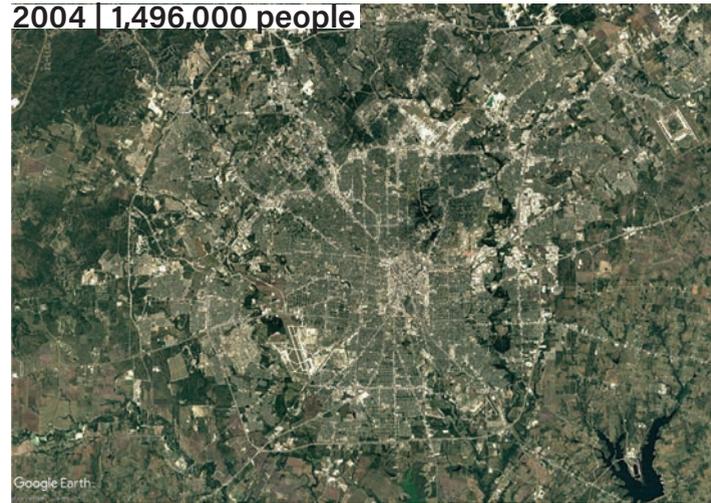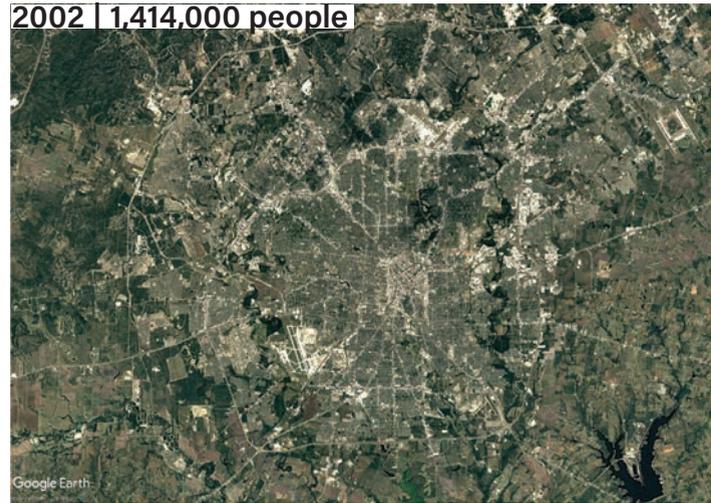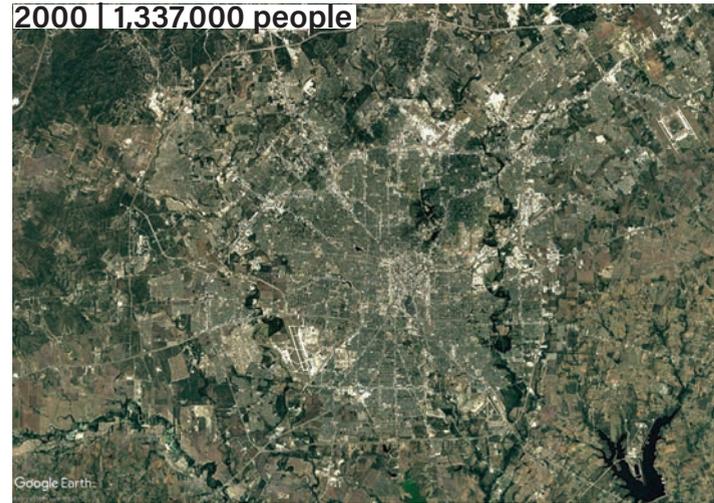
city growth | 2002 - 2022

2000 | 1,337,000 people
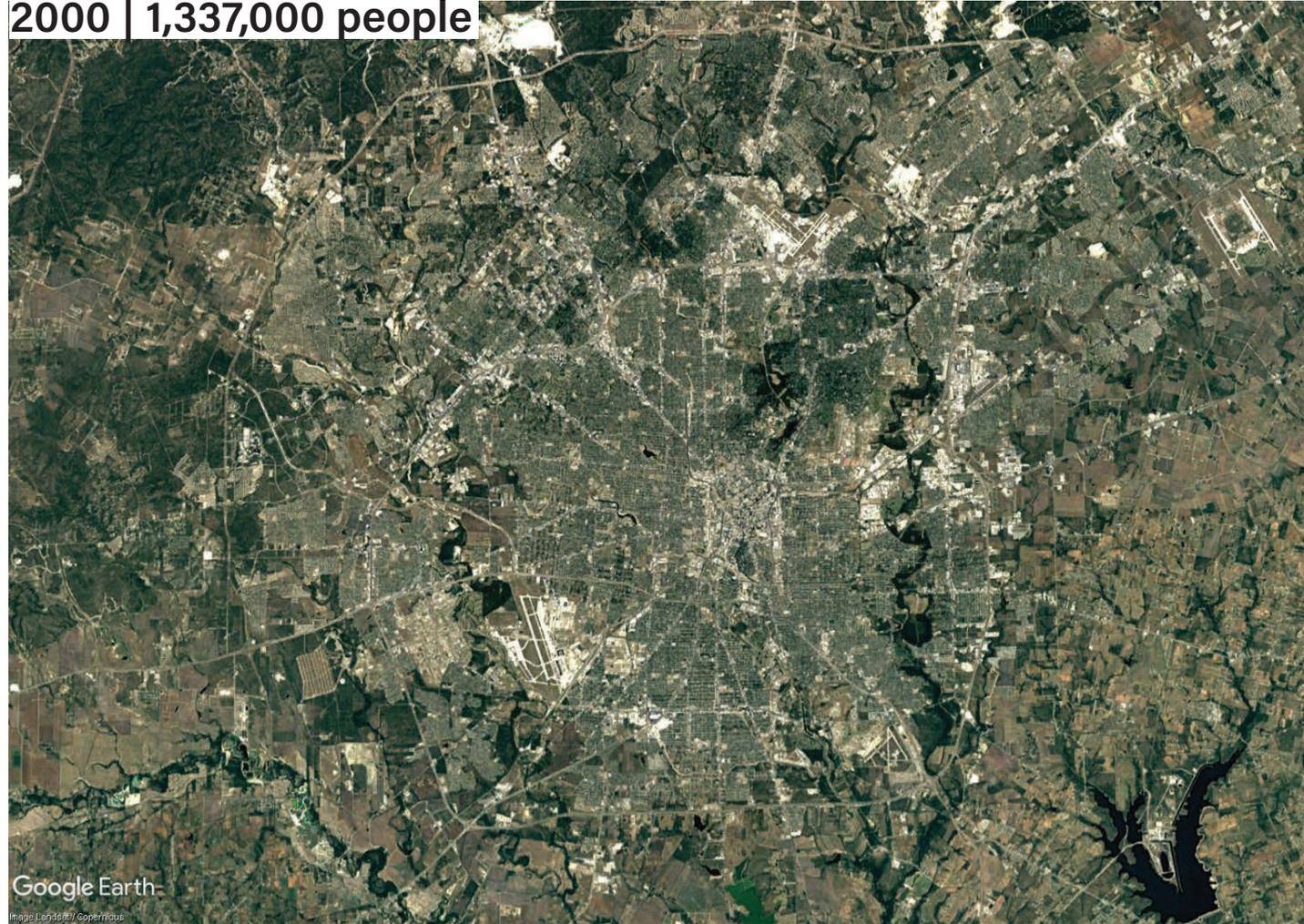
2022 | 2,413,000 people

Google Earth
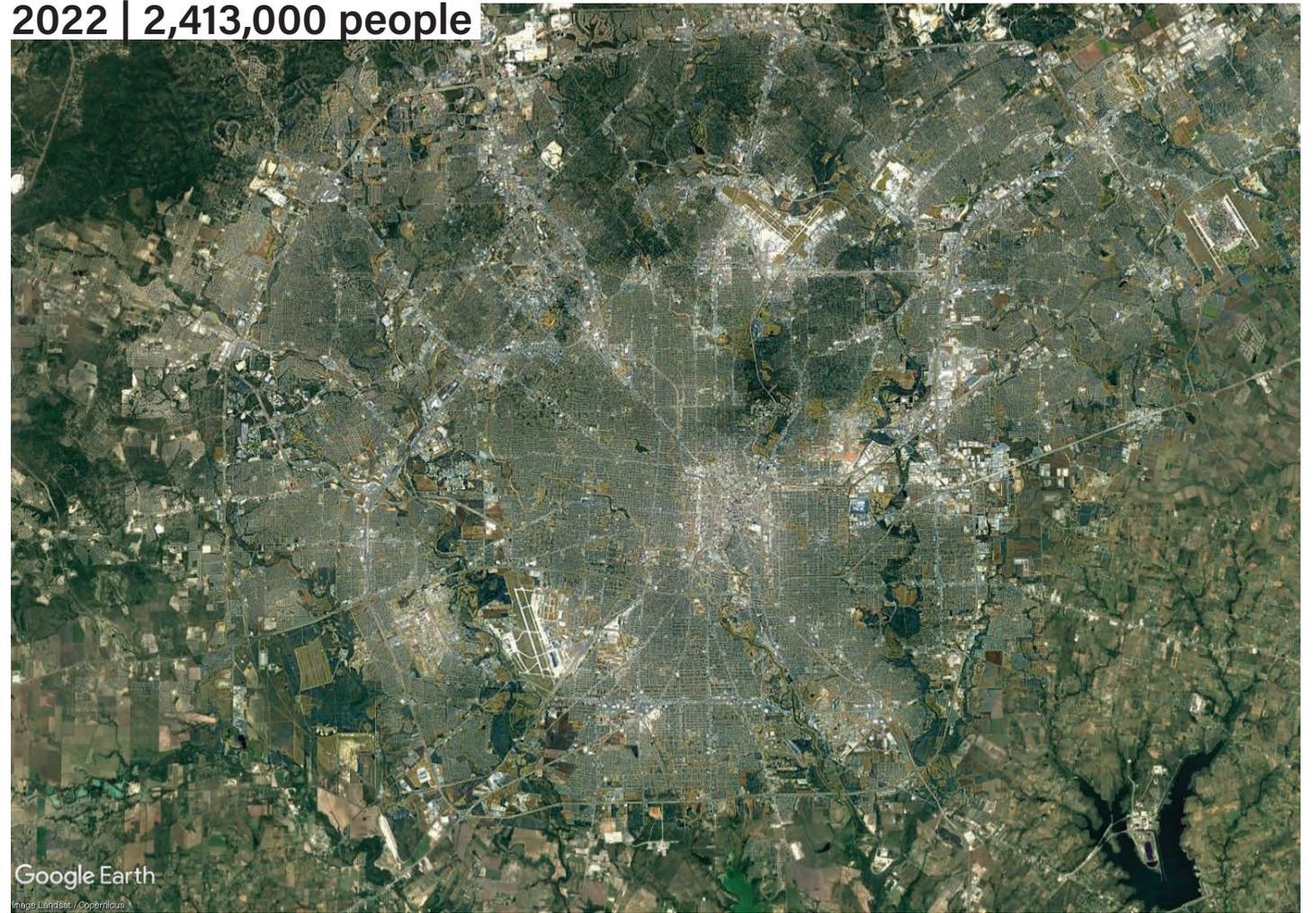
Google Earth

city growth | 2002 + 2022

urban core
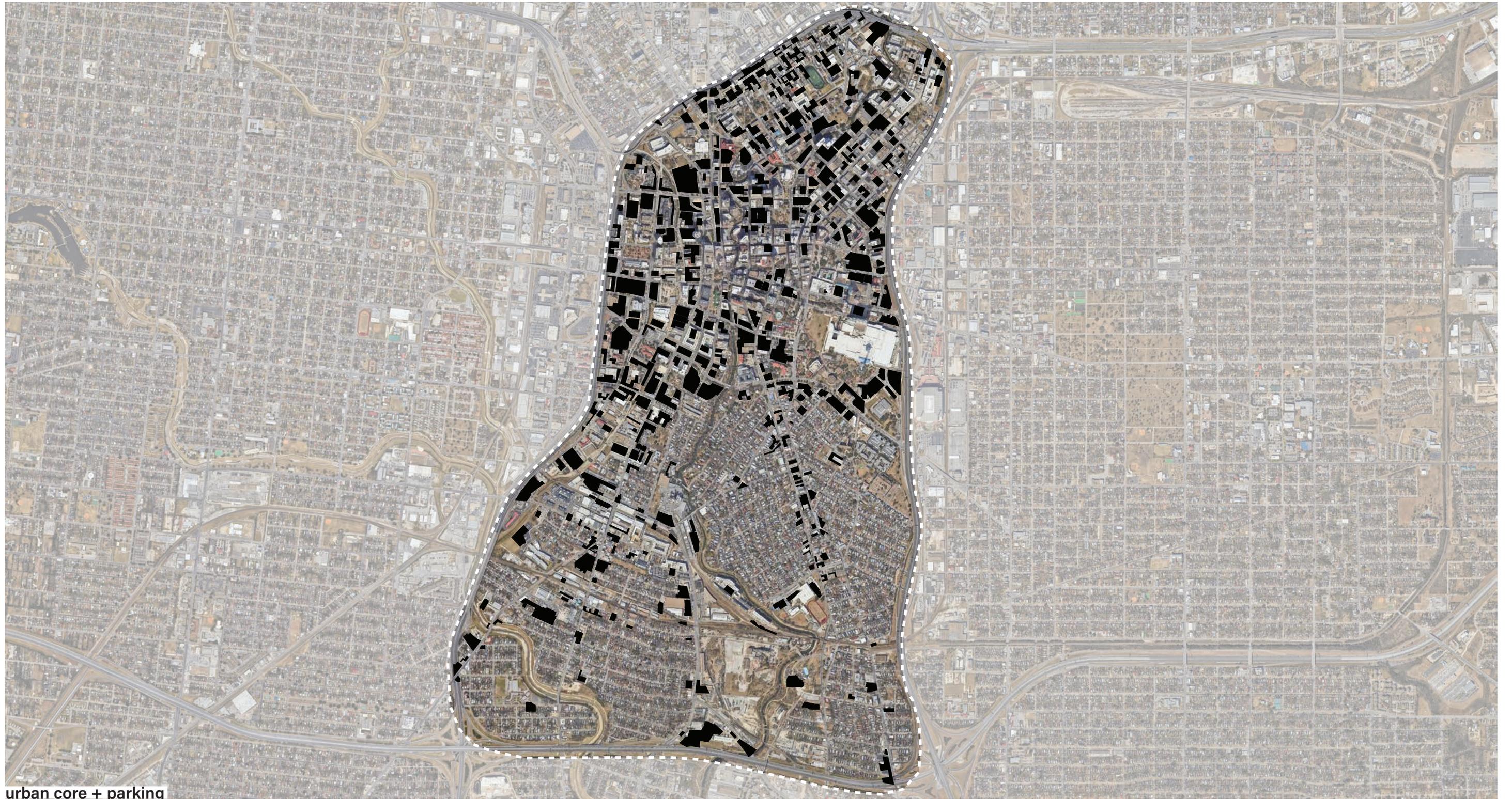
urban core + parking

surface parking

parking structure

urban core + parking

01 surface parking (lot)

02 surface parking (infill)

03 parking structure (stacked)

surface parking

parking structure

urban core + parking typologies
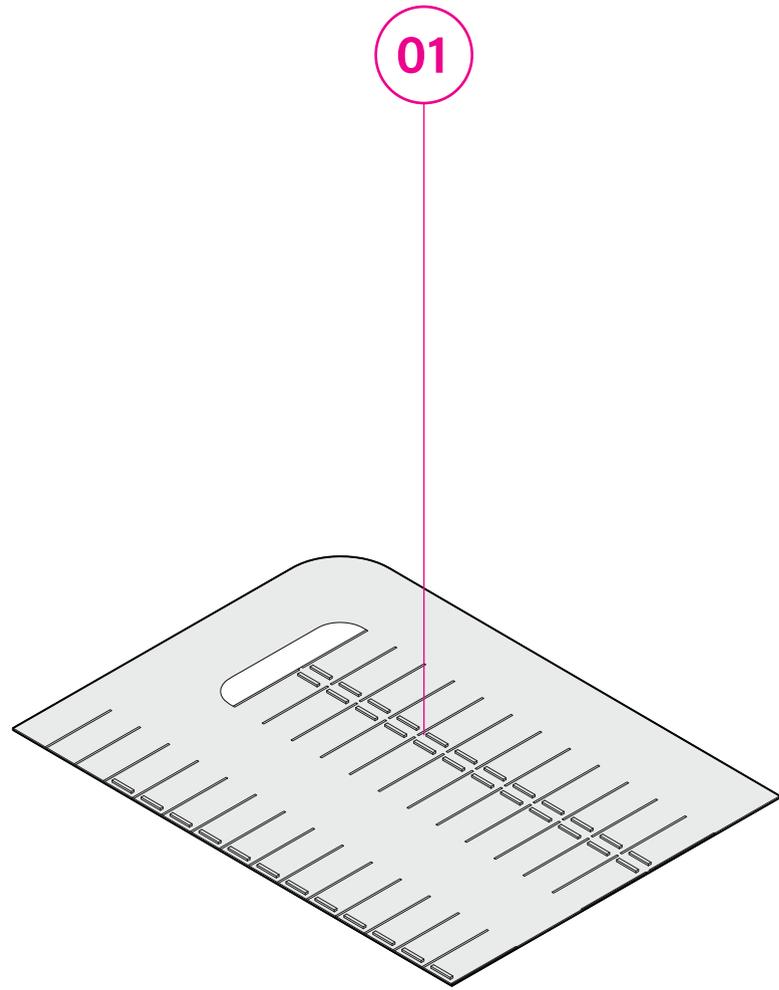
01 surface parking (lot)

02 surface parking (infill)

03 parking structure (stacked)

parking typologies

9′

20′
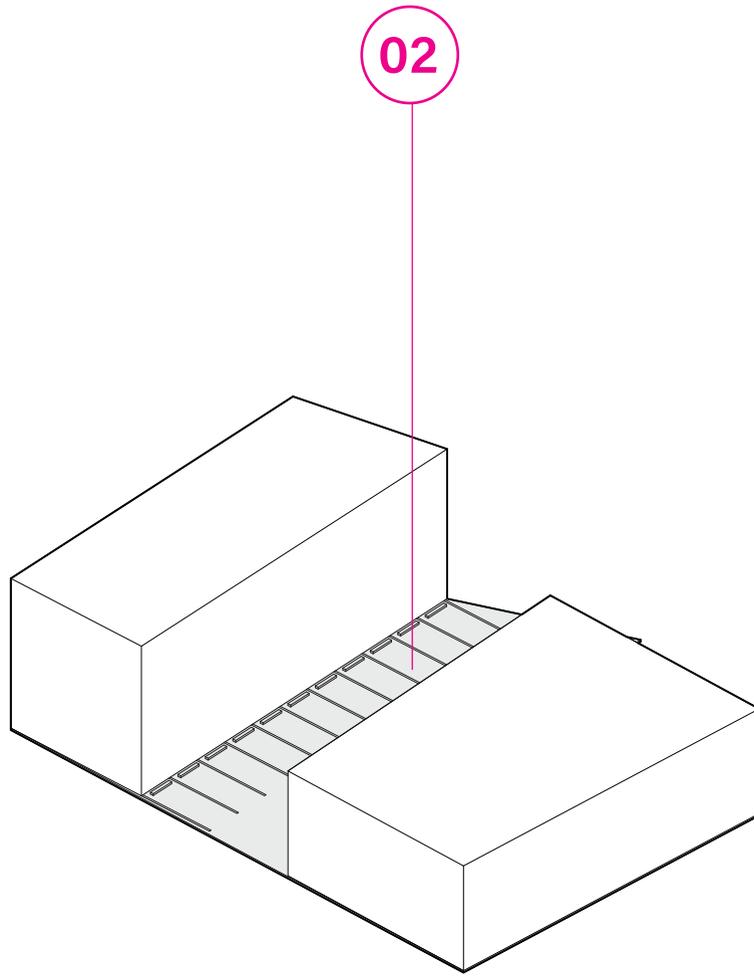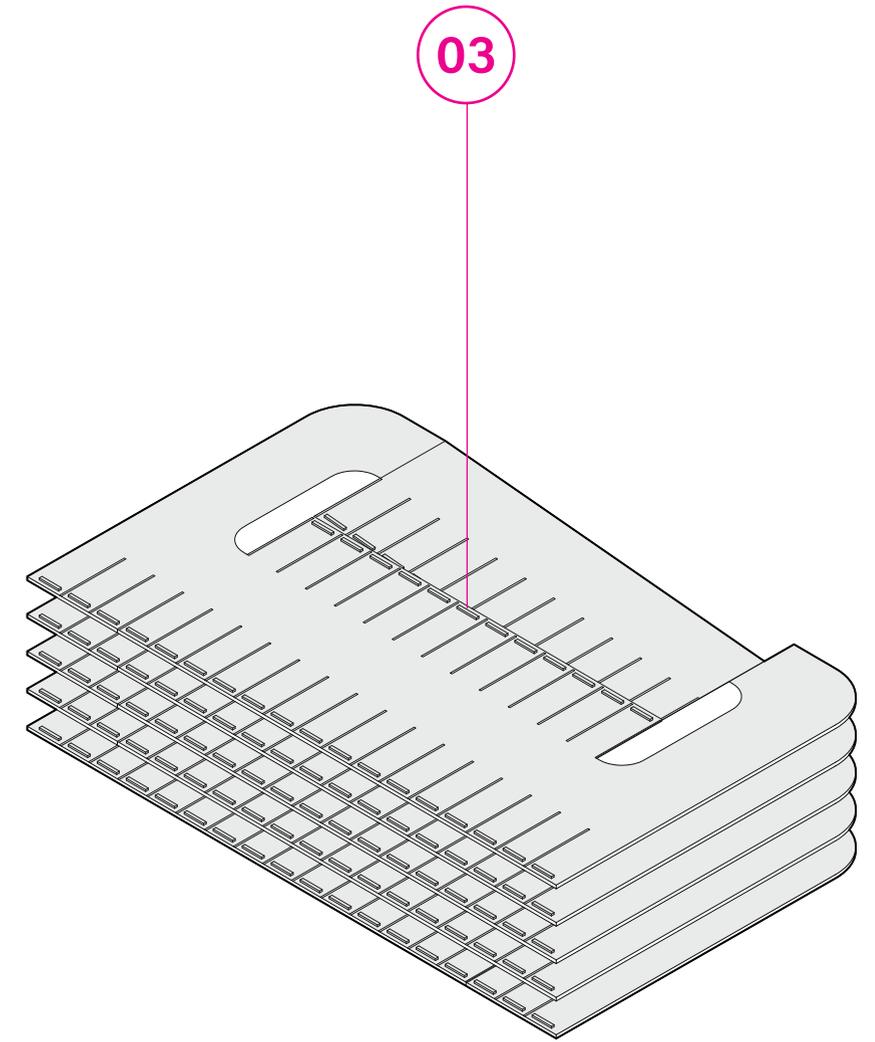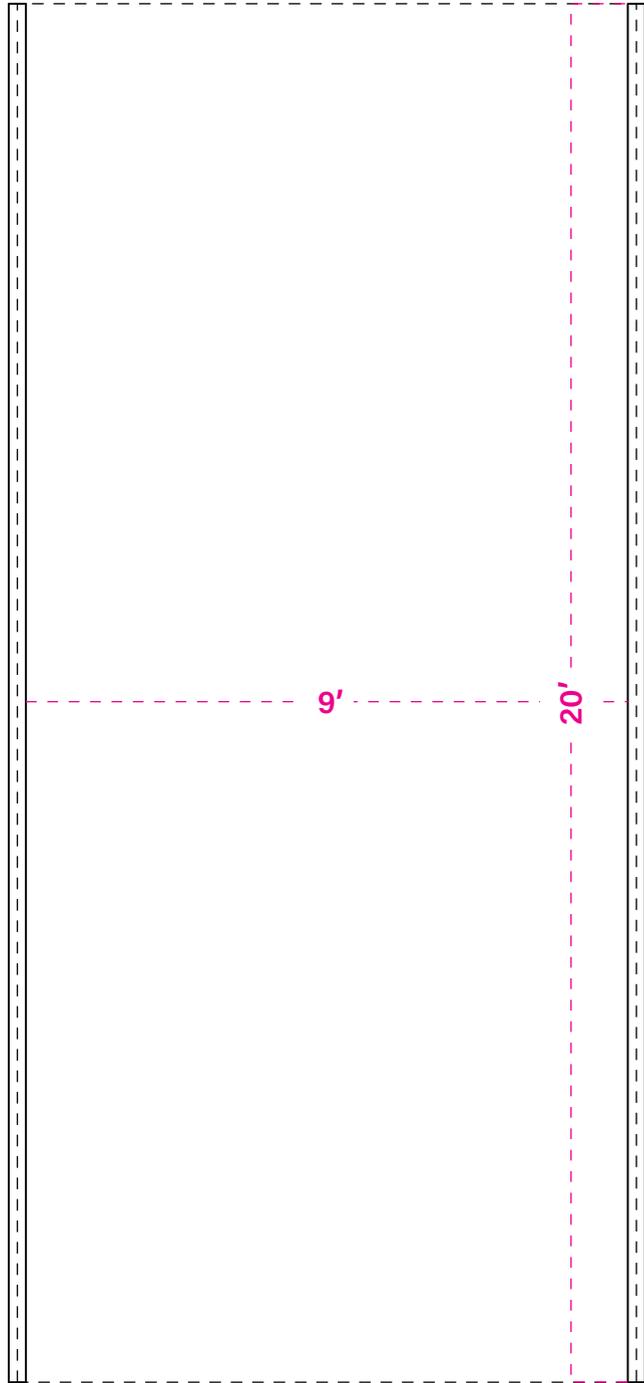
01 **standard parking dimensions**

standard parking dimensions are 9′ wide and 20′ long

**11′**

13.5′

8.5′
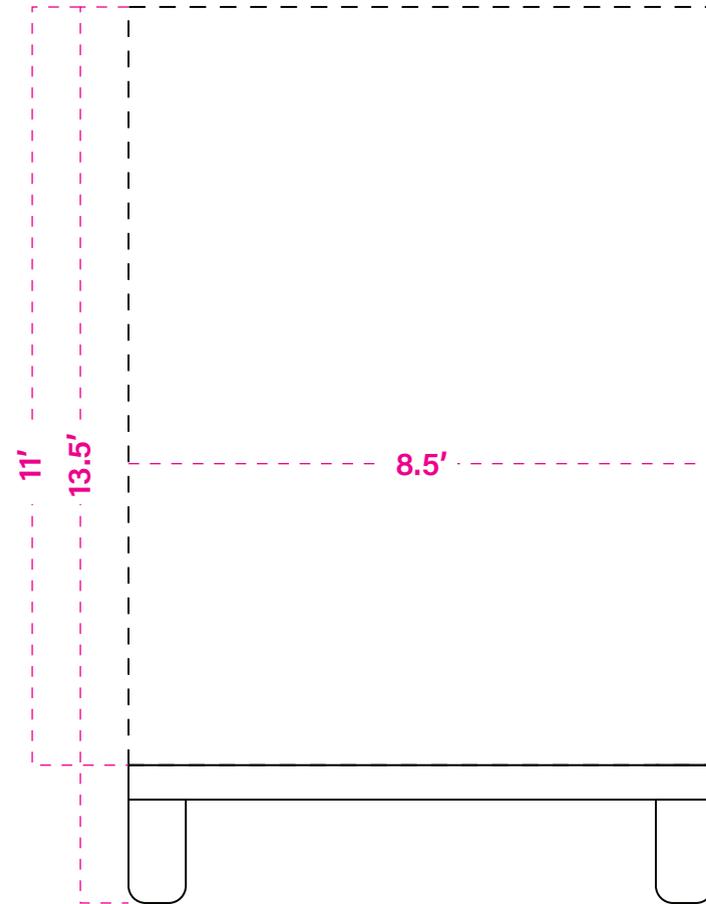
02 **maximum trailer dimensions**

maximum trailer dimensions (without permit) are 40′ long and 8.5′ wide, with a total height no taller than 13.5′.

mobile housing module | design parameters

mobile housing module | plan

0' 1' 3' 6'
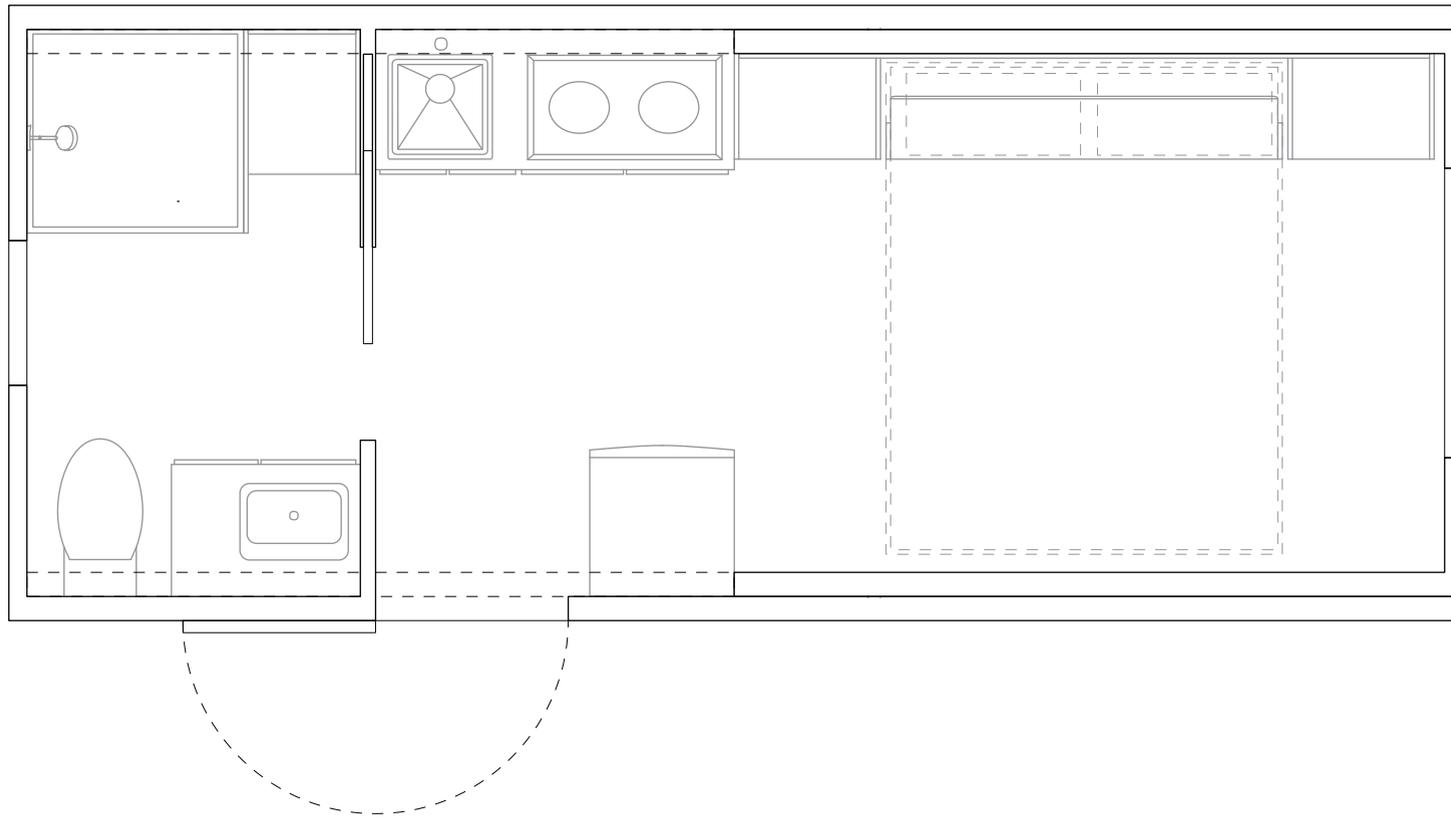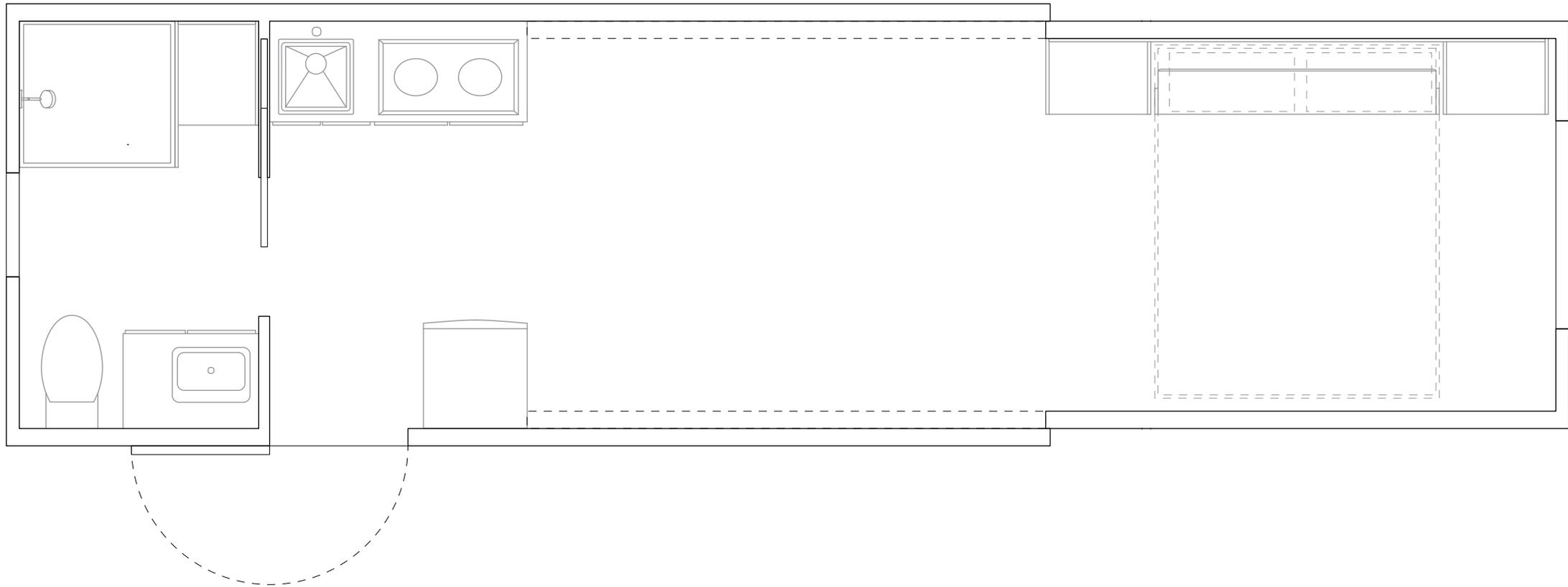
mobile housing module | plan expanded
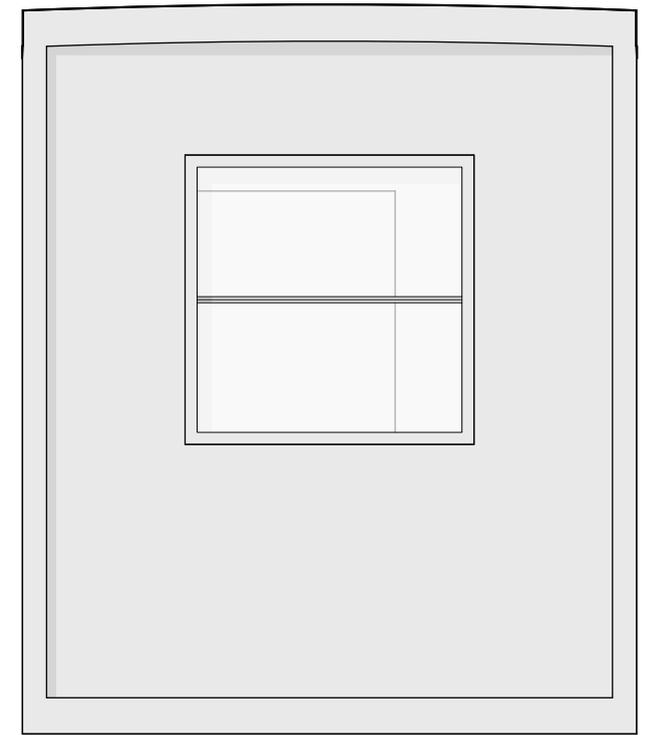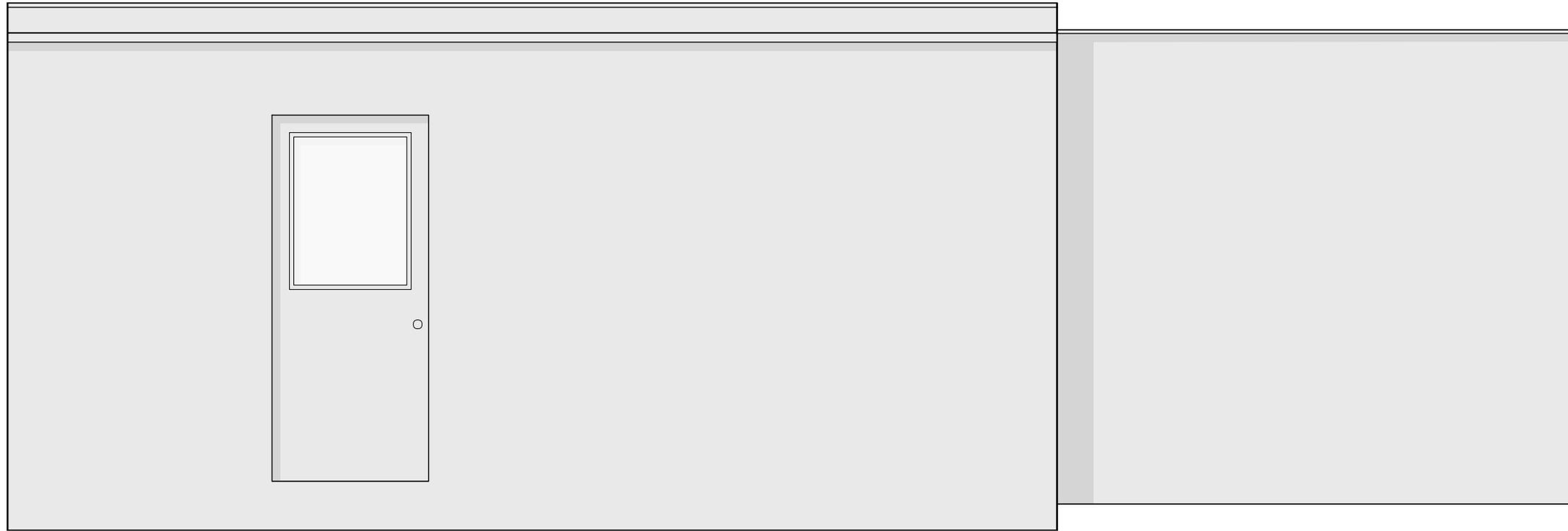
mobile housing module | elevation
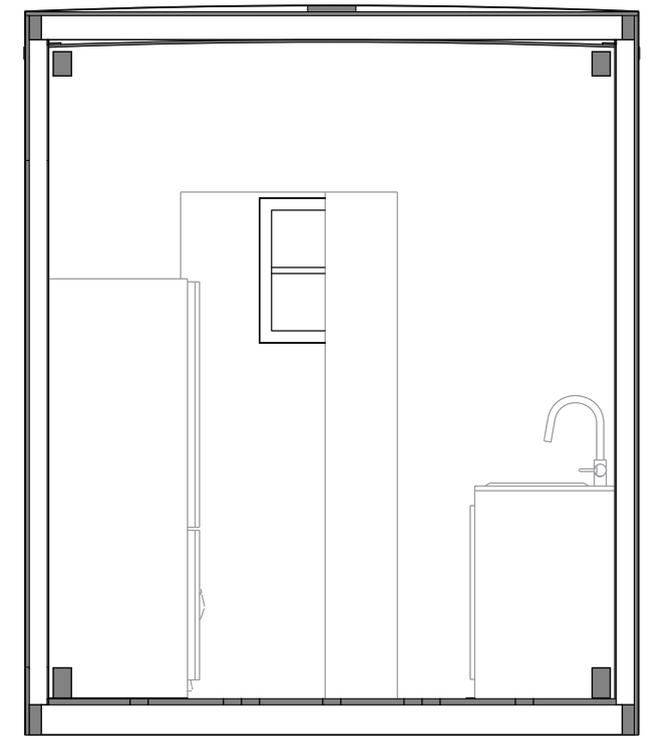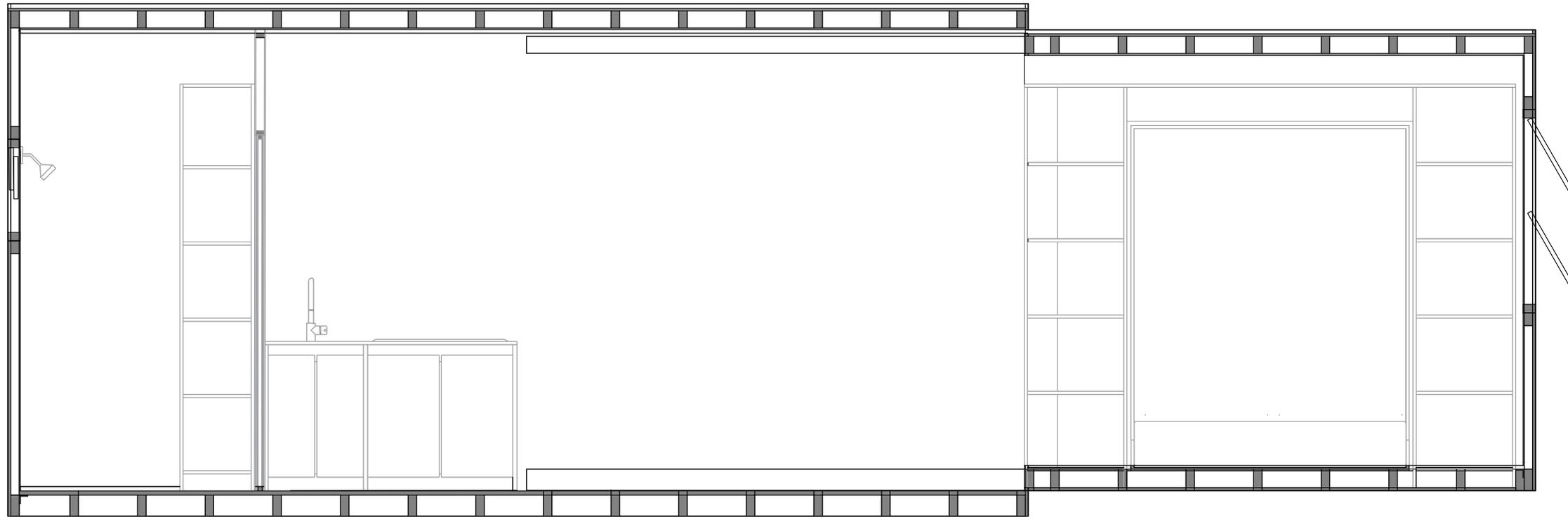
**mobile housing module | section**

0' 1' 3' 6'

aluminum siding
3/4″ sheathing
steel structure
1/2″ plywood panel
steel cleat
1/2″ plywood panel
steel structure
3/4″ sheathing
aluminum siding
door
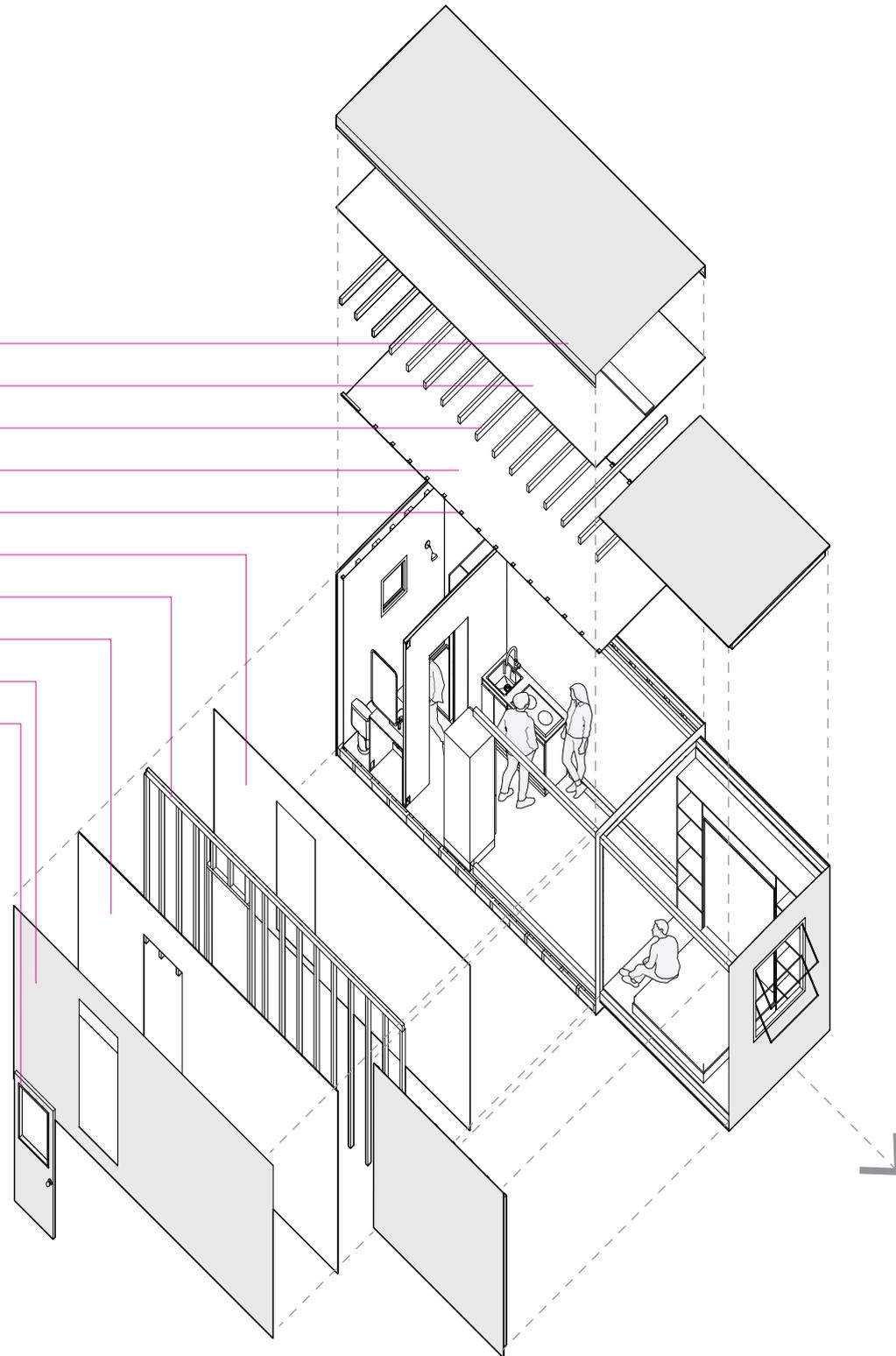
mobile housing module | exploded
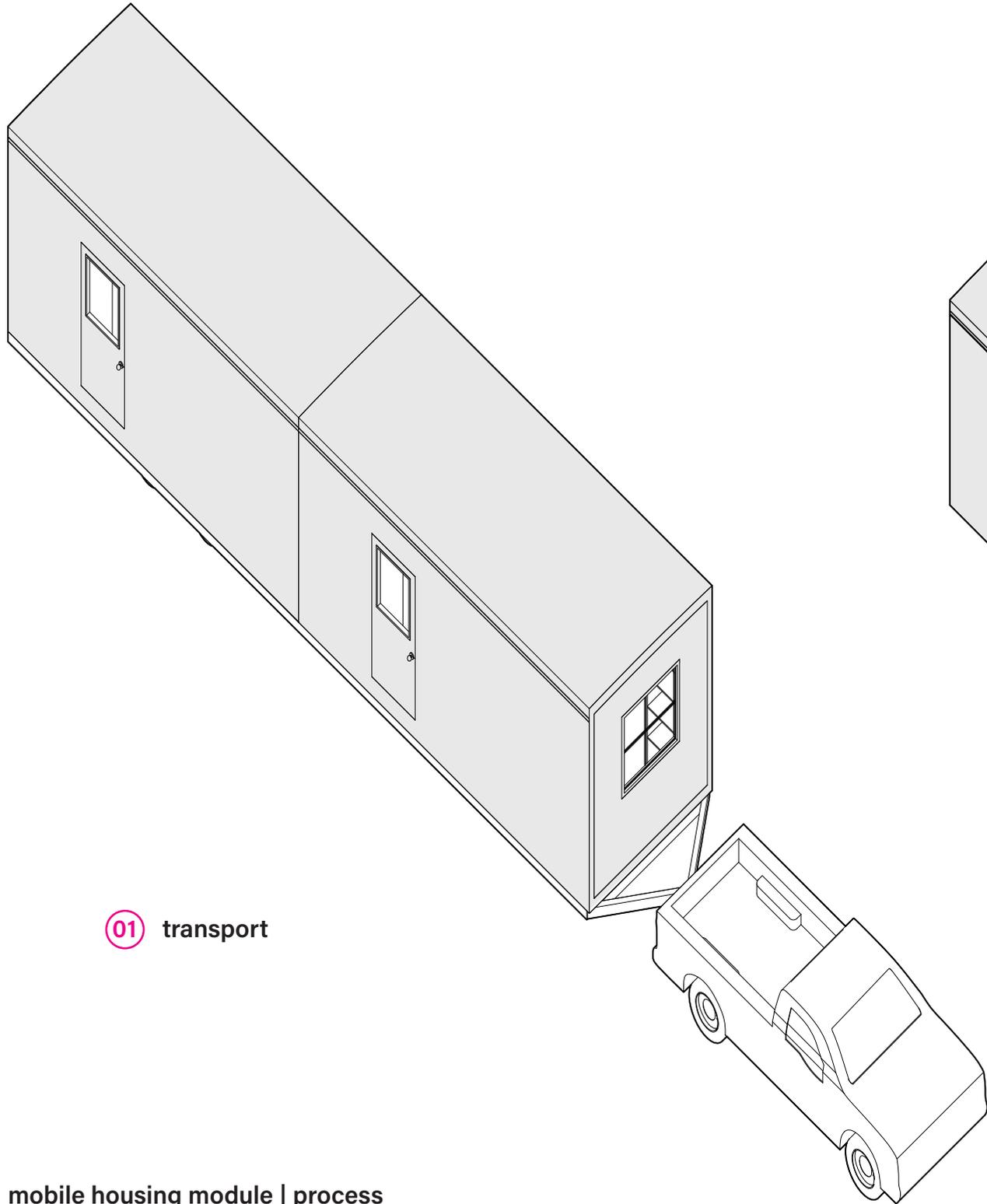
01 transport

02 place

03 expand

mobile housing module | process

01 surface parking (lot)

02 surface parking (infill)

03 parking structure (stacked)

parking typologies + module

parking + module | study area
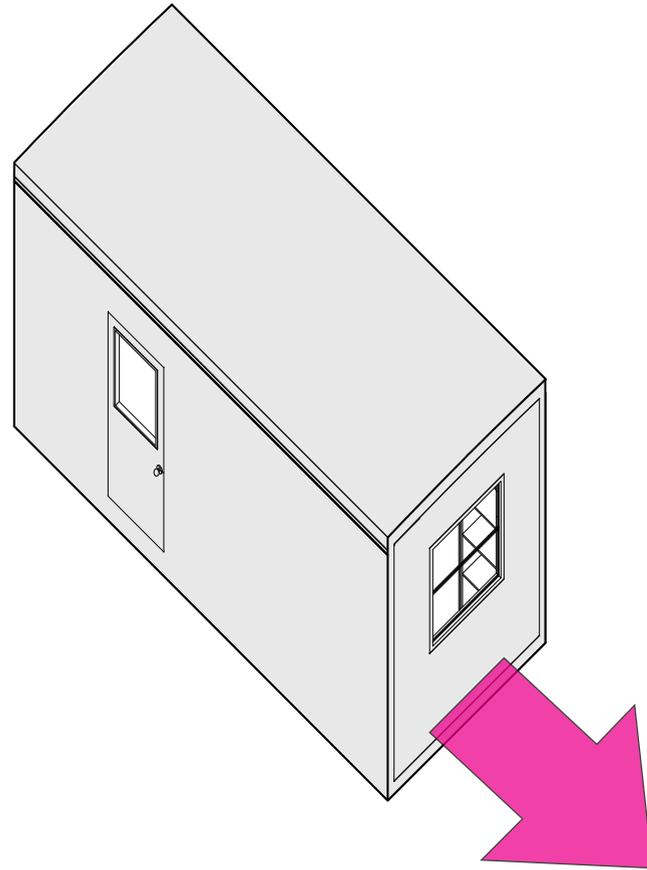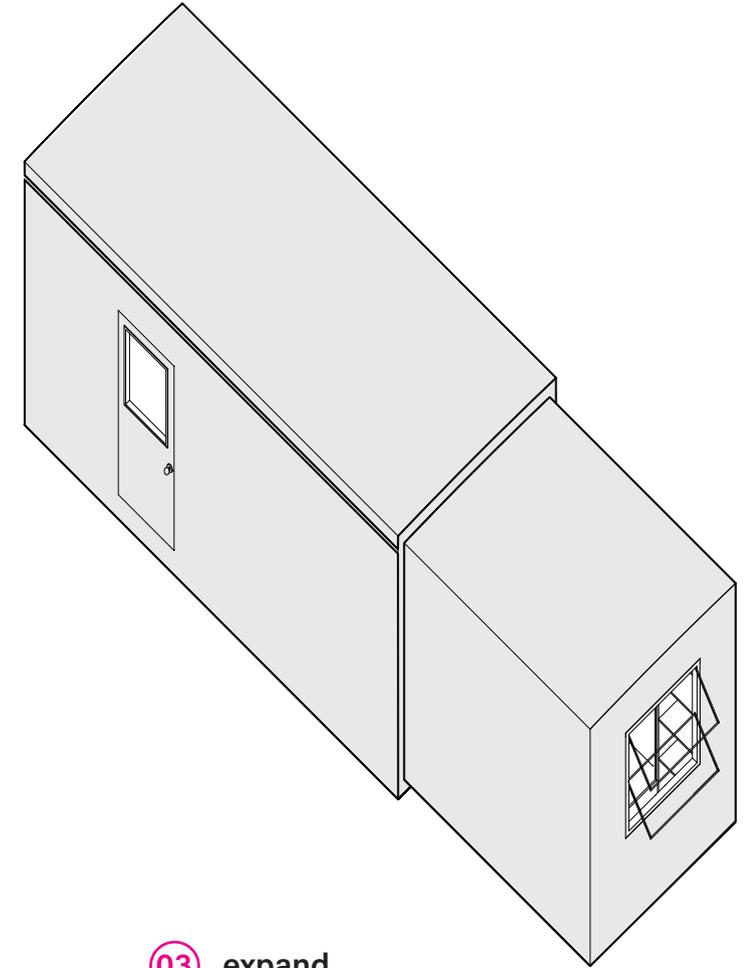
03 parking structure (stacked)

01 surface parking (lot)

03 parking structure (stacked)
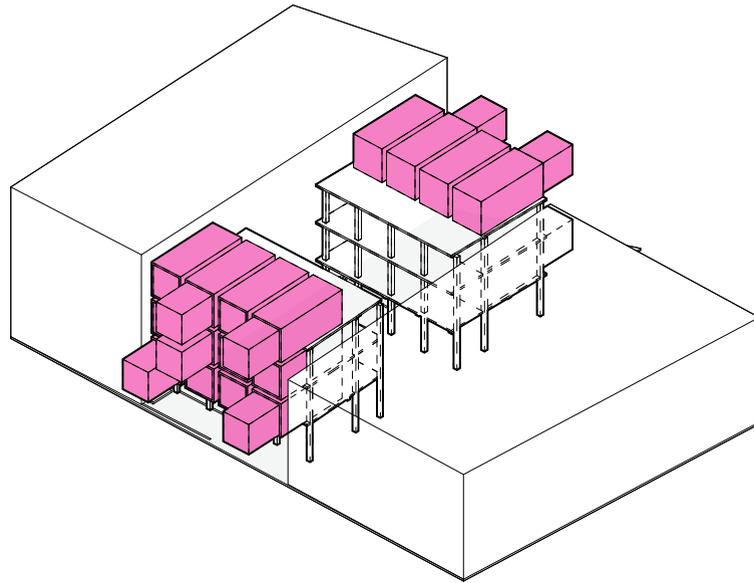
02 surface parking (infill)

02 surface parking (infill)
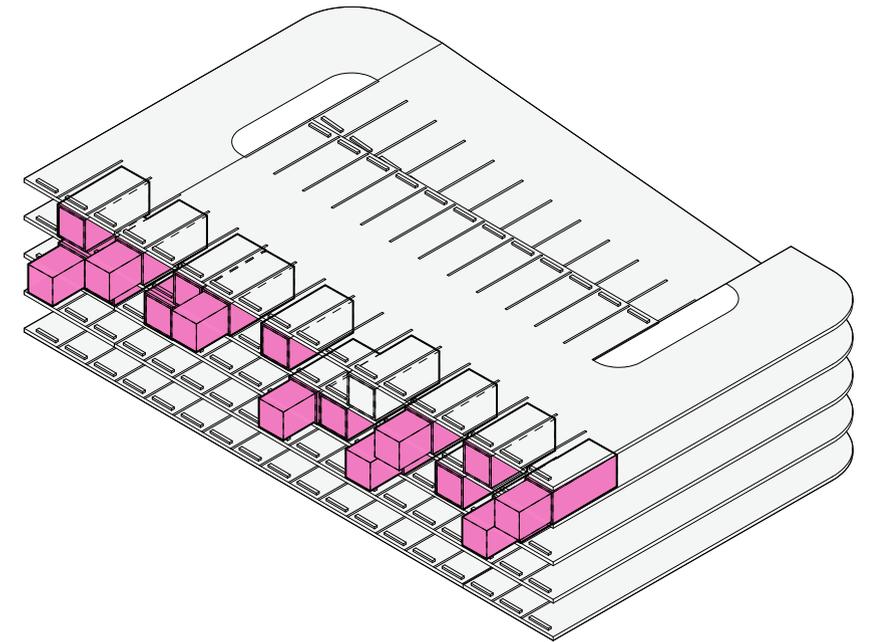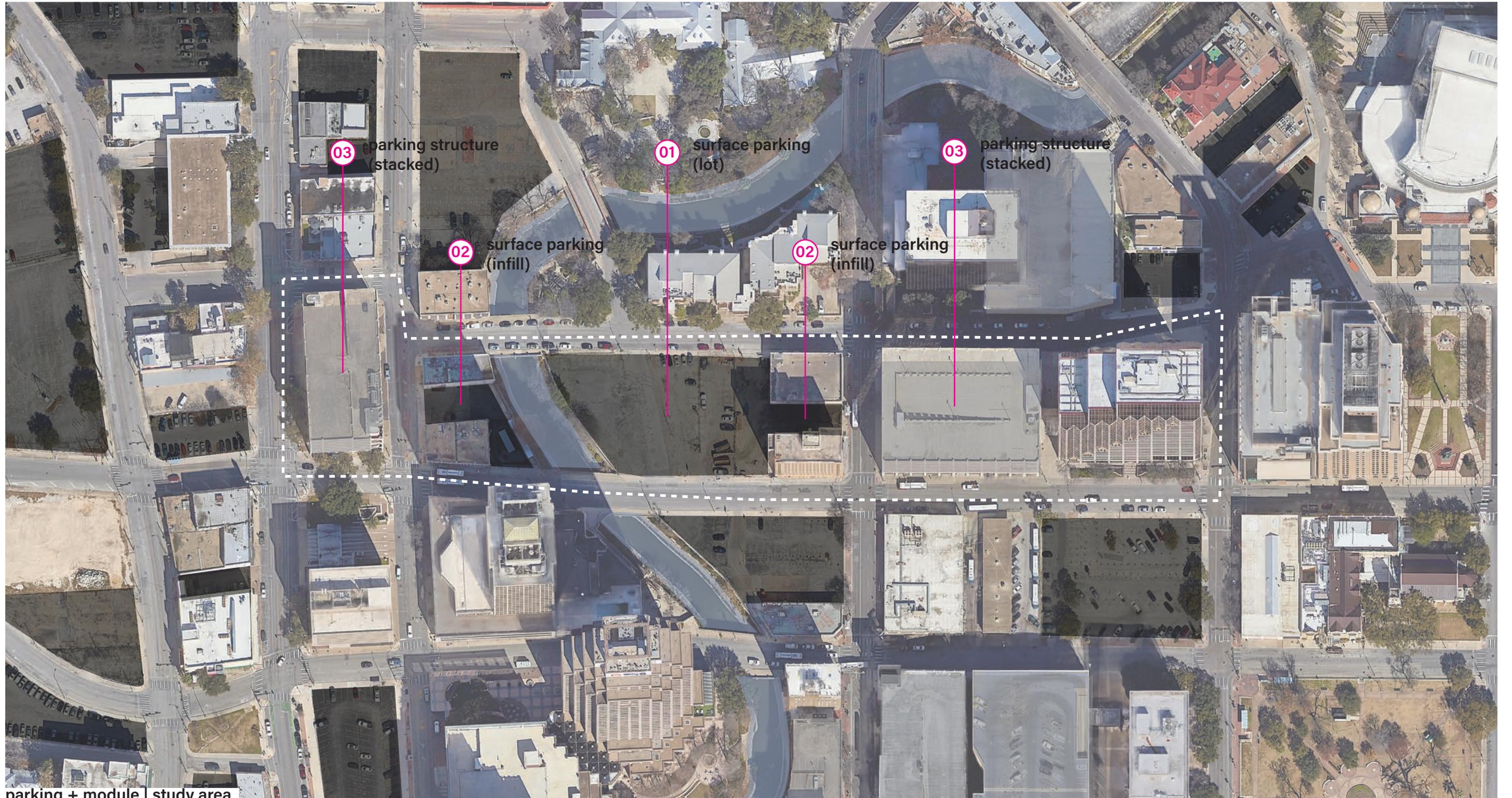
parking + module | study area

parking + module | study area

03 parking structure (stacked)

02 surface parking (infill)

01 surface parking (lot)

02 surface parking (infill)

parking + module | plug in(fill)