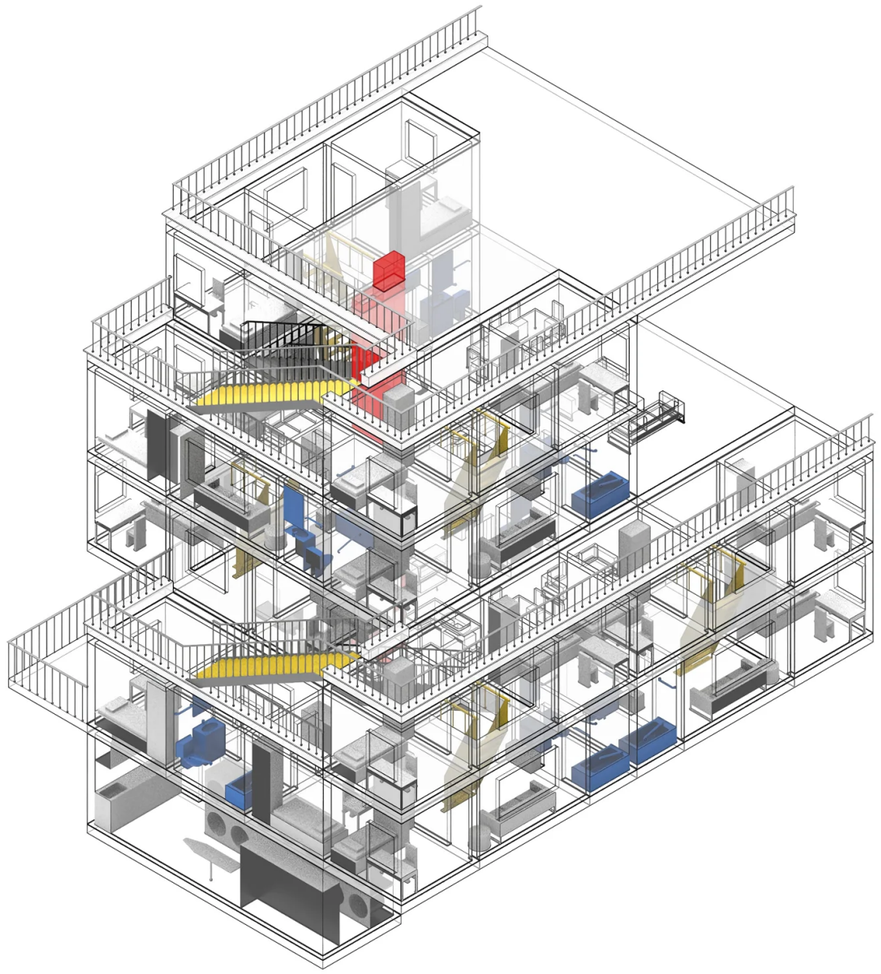
FRACTAL STRIPES

Collective housing

Sackett Street
Gowanus, Brooklyn



DESIGN DEVELOPMENT / 2026

Original studio project
Siyue You + Haemoon Hong
Pratt Institute / ARCH 301 / Fall 2020

Sharing as a spatial sequence

The original Collective Assemblies / Post-Familial Domesticities brief examines how domestic life can be organized beyond the isolated apartment. This study retains that question and the original drawing language, then develops a coordinated housing scheme.

A private room opens to an internal hall. Four rooms share sanitary facilities, a kitchen and a living bay. Each cluster has an entrance from a courtyard gallery. The gallery connects shared rooms and the vertical cores; ground-floor facilities address the same open court.

Here, “fractal” describes nested repetition across room, cluster and building scales. It is a design analogy, not a claim of strict geometric self-similarity.

01 **ROOM**

3.0 m nominal frontage

02 **CLUSTER**

4 private rooms + shared living

03 **BAR**

2 clusters on each residential level

04 **COURT**

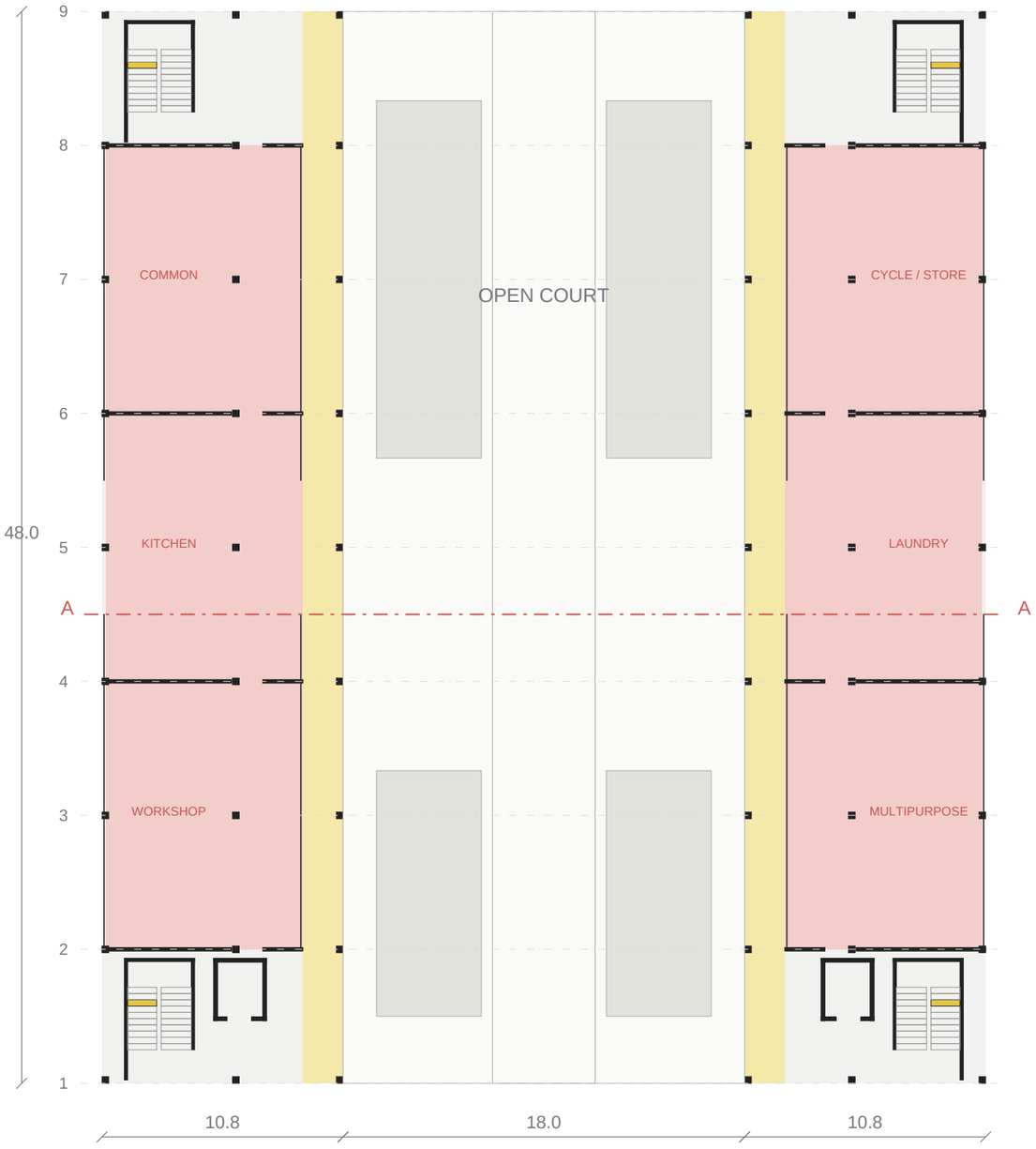
2 bars + one shared crosslink

Drawing basis. Plans, section and cutaway are extracted from the same 2026 model. Dimensions are schematic design assumptions. Parcel fit, code compliance, structural sizing and building services require a subsequent design stage.

Attribution. The 2020 studio project and cover drawing are credited to Siyue You and Haemoon Hong. The following sheets document the subsequent development, not a record of the original submission.

Common ground

Paired bars / open courtyard / continuous galleries



DESIGN DEVELOPMENT / 2026 / DIMENSIONS IN METRES

01 ## Two bars, one court

Each bar measures 10.8 x 48.0 m.
An 18.0 m clear court separates them.

02 ## An open ground route

The path continues beneath the crosslink.
Shared facilities address the courtyard.

03 ## A six-metre frame

The primary grid coordinates structure, partitions and repeated service zones.

04 ## Urban placement

The original brief locates the project on Sackett Street in Gowanus, Brooklyn.

- Shared movement
- Collective rooms
- Service zones

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First residential level

Four clusters / sixteen private rooms / shared crosslink at +3.30



01 **6.0 / 3.0 / 1.8**

Room depth, internal hall + services, and external gallery form parallel bands.

02 **4 rooms per cluster**

Four private rooms share a living bay, kitchen and two sanitary rooms.

03 **48 private rooms**

2 bars x 2 clusters x 4 rooms x 3 levels. The ground floor contains shared uses.

04 **Two routes out**

Galleries connect to stairs at both ends. A lift zone serves each bar.

- Shared movement
- Collective rooms
- Service zones

DESIGN DEVELOPMENT / 2026 / DIMENSIONS IN METRES

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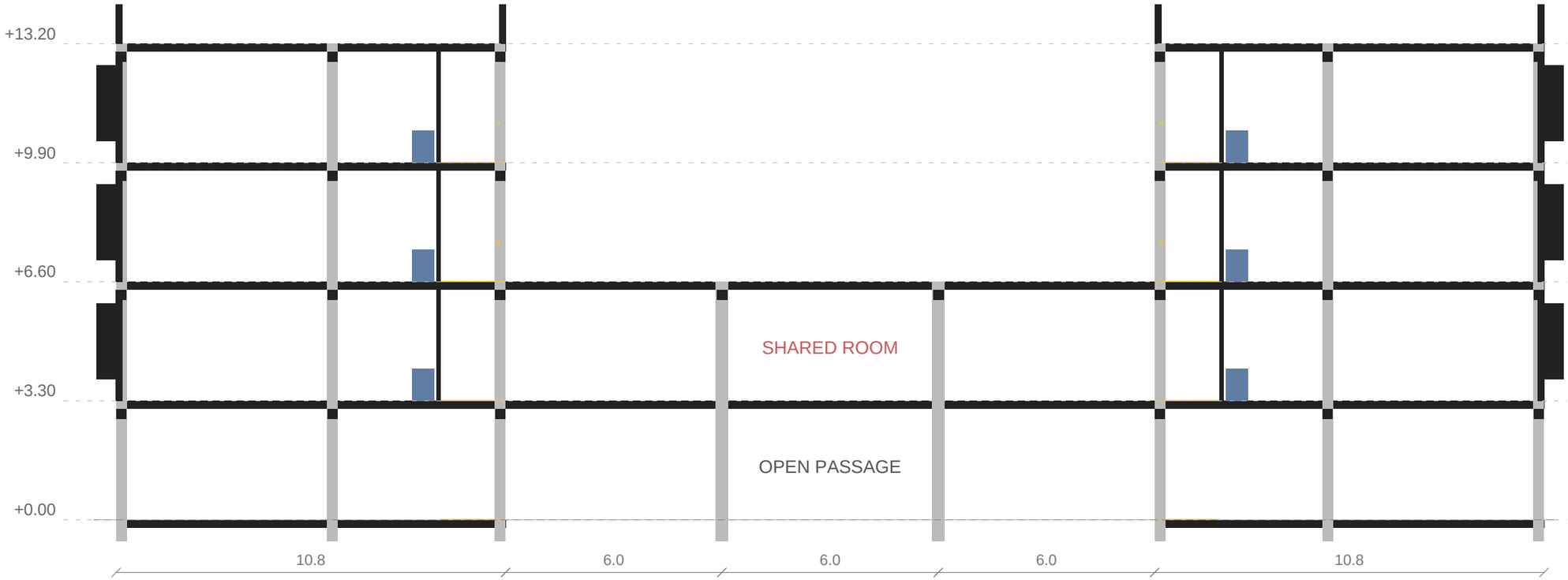
Section A-A

The crosslink is carried by three spans; the ground route remains open



01 / Vertical continuity

Columns and cores align across floors.
Wet zones repeat at the same location.

02 / Supported crosslink

Intermediate supports subdivide the court into three nominal six-metre spans.

03 / Sectional separation

Shared space occupies the crosslink; the public ground remains continuous.

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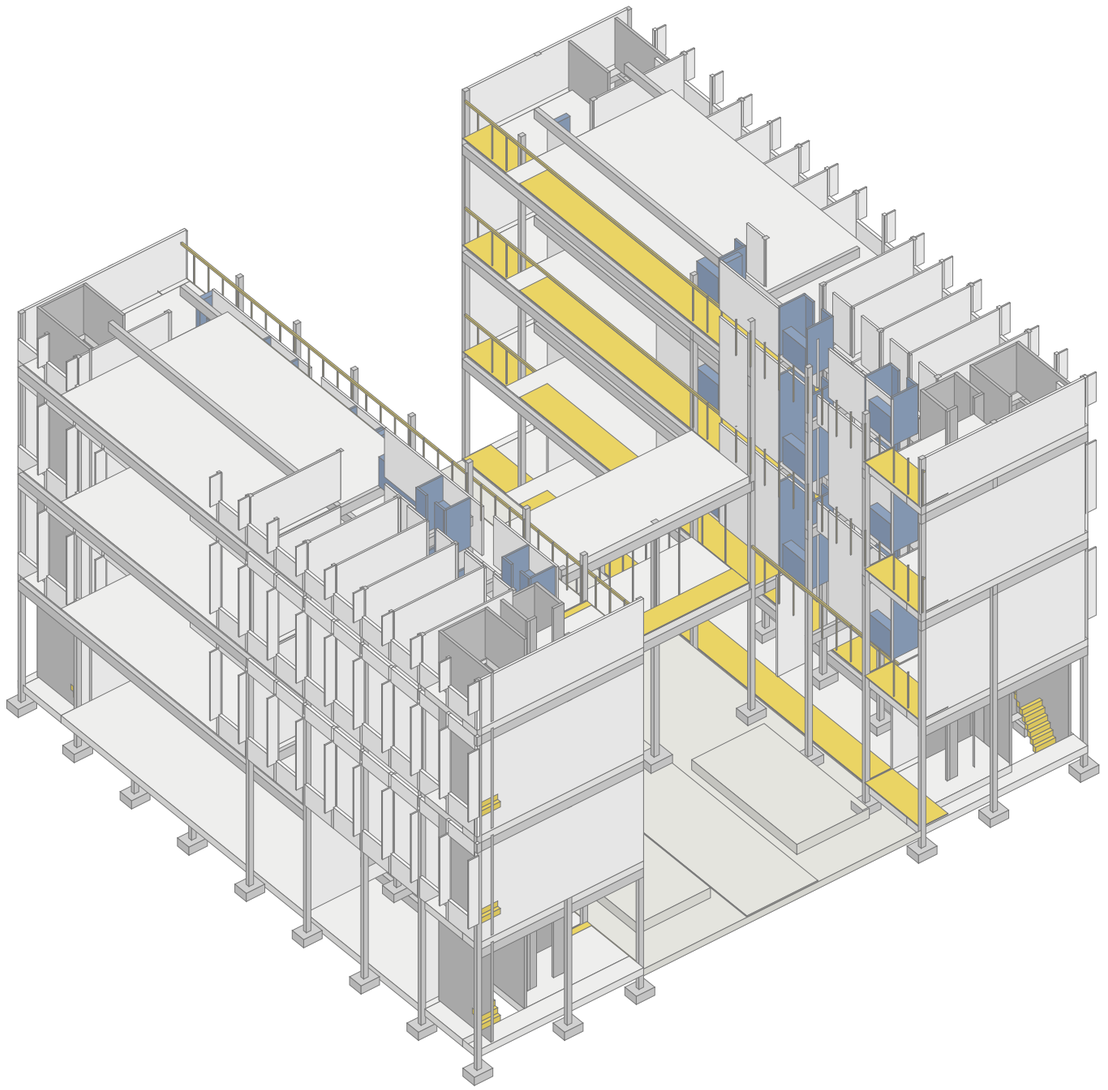
From strip to assembly

A horizontal cut at +11.40 exposes the upper domestic clusters



Shared movement

Collective rooms

Service zones

3 m

Private room module

6 m

Primary structural rhythm

18 m

Cluster length / courtyard width

3 levels

Residential repetition

DESIGN DEVELOPMENT / 2026 / DIMENSIONS IN METRES

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