

A House in Charleston

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Master of Architecture in Architecture

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Abstract

This project began with the desire to design a house in a town for which I have always had a personal affection: Charleston, South Carolina. The house is designed for a an artist and his family of four and includes a studio for the artist. This design gained its own identity through the research of several historical Charleston housing typologies and acknowledgment of its place in the city. Structure and a panelized system of construction were major factors in the development of the house. As the project progressed, the design of the house moved from a strictly instrumental approach towards a more nuanced design that told a story about how the owners would live in the house.

For all of my family, friends, studio mates and my
committee for their encouragement and support along
this journey.

For Mom, Dad, Will, and Jaclyn.

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A House in Charleston

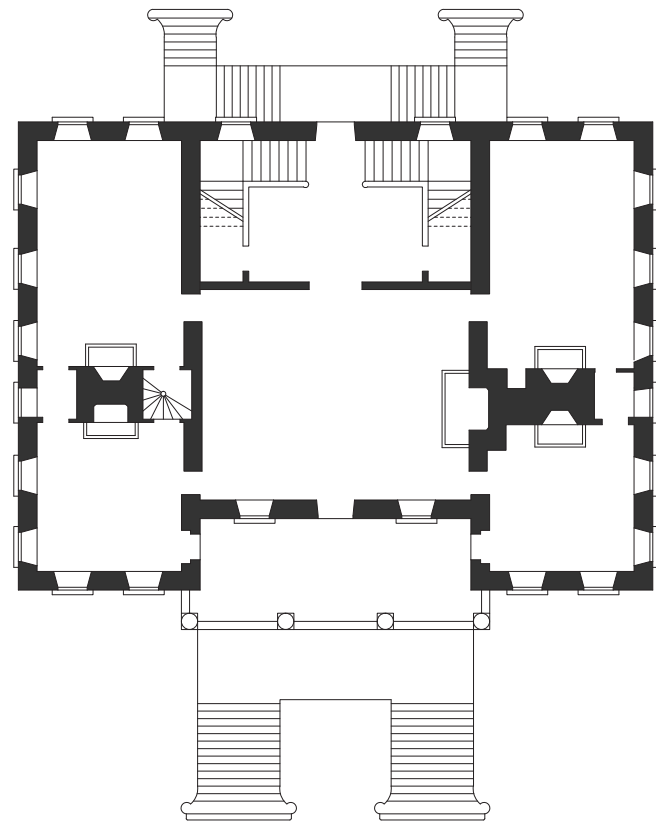
Introduction

A House in Charleston was as much a project in learning to transition an instrumental way of designing into one that acknowledged the architectural nuances that can be a part of how a house is lived in everyday as it was a project in designing a modern home for historic Charleston, South Carolina. This project fulfilled my desire to design in a city that has been a special place for my family for many years. The part of the city in which this house is located is one with many unique housing typologies, including the Charleston Single House Type. Studying these typologies allowed me to ultimately design a house that recognized the architectural and social elements of Charleston houses, but was itself autonomous. The house was approached in an instrumental, or mechanistic, manner through drawings early on, with structure being a main focus. What developed was a house that used these structural and constructive qualities to highlight the way a modern family lives.

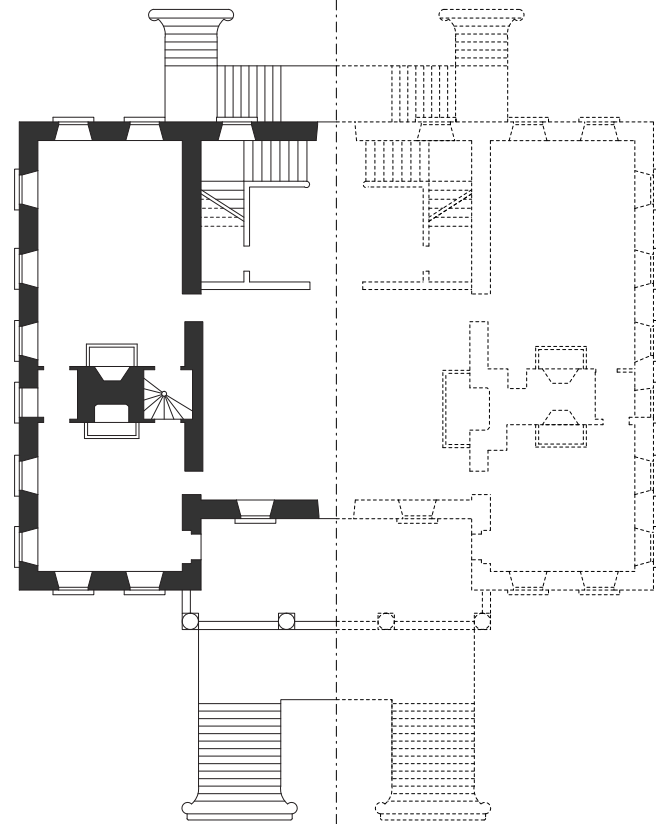
A House in Charleston



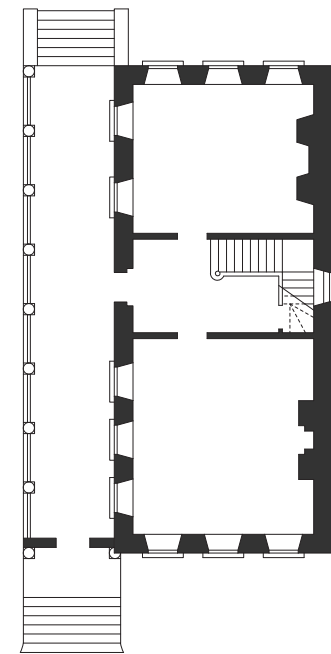
Charleston, South Carolina



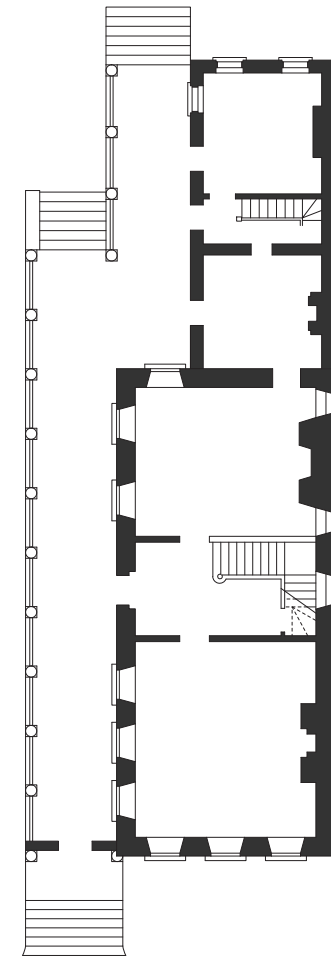
drayton hall plan
scale: 1/8"=1'



drayton hall plan
scale: 1/8"=1'



single house plan
scale: 1/8"=1'



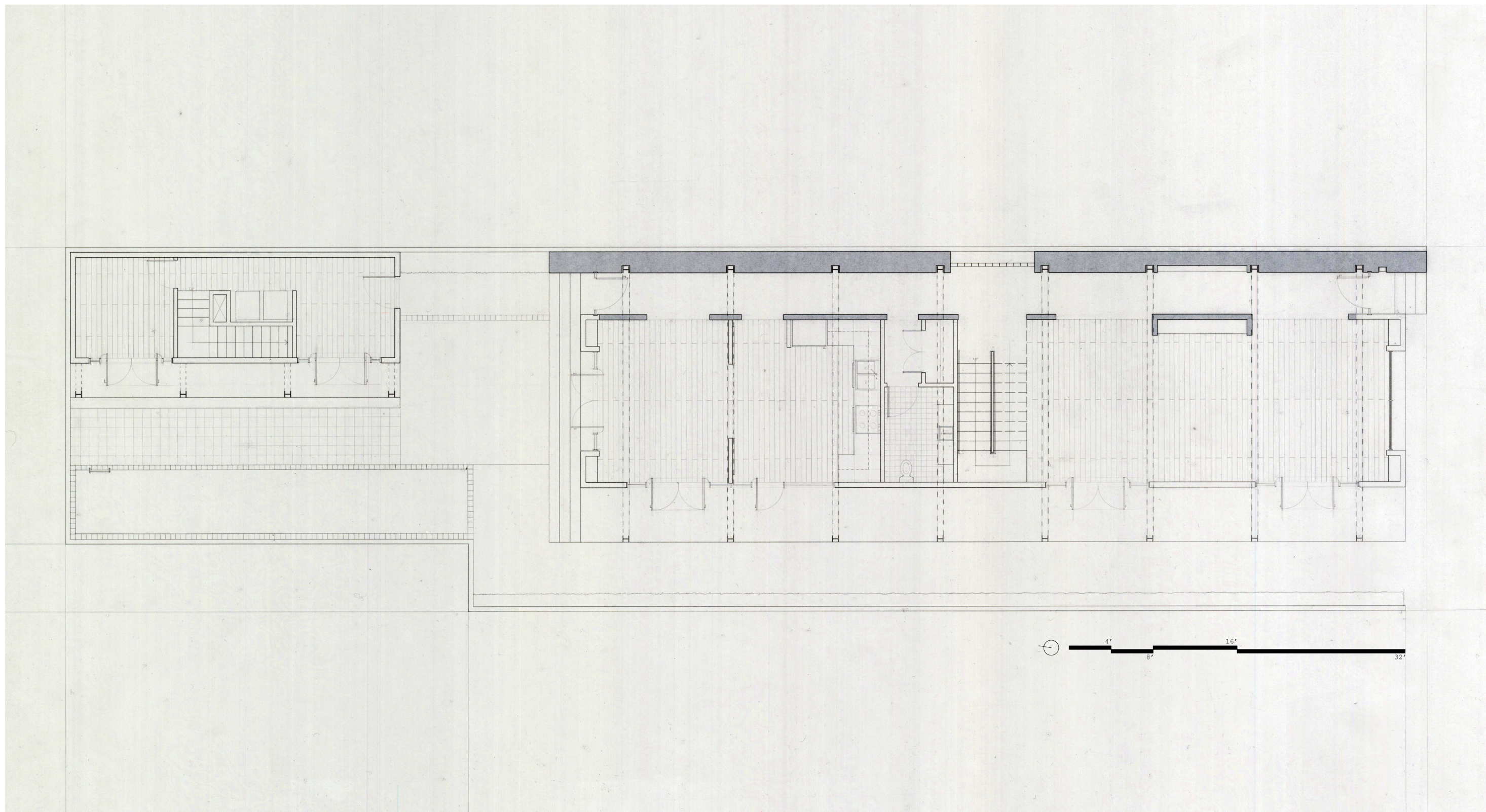
expanded single house plan
scale: 1/8"=1'

South Carolina Plantation House and Charleston Single House

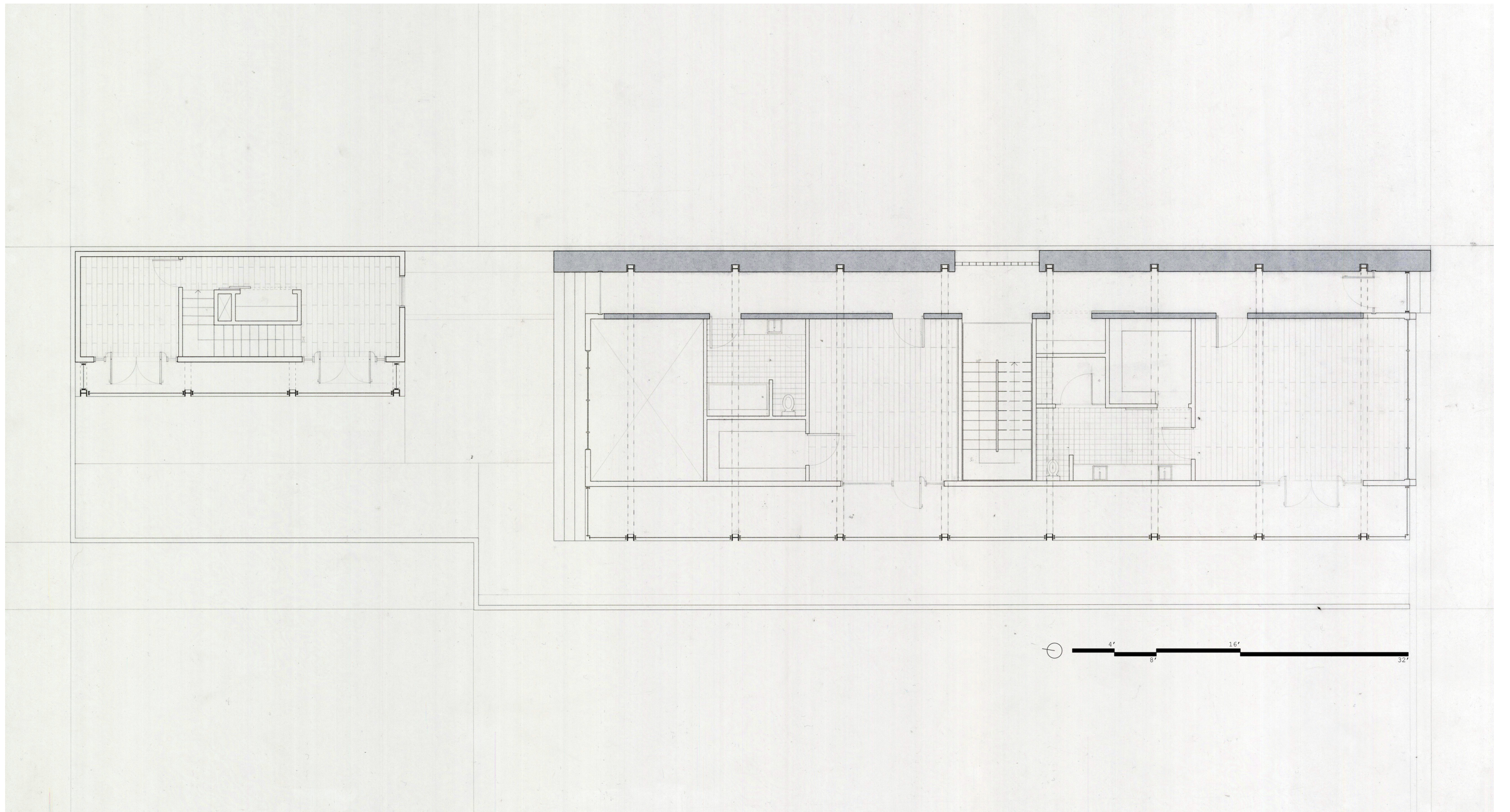
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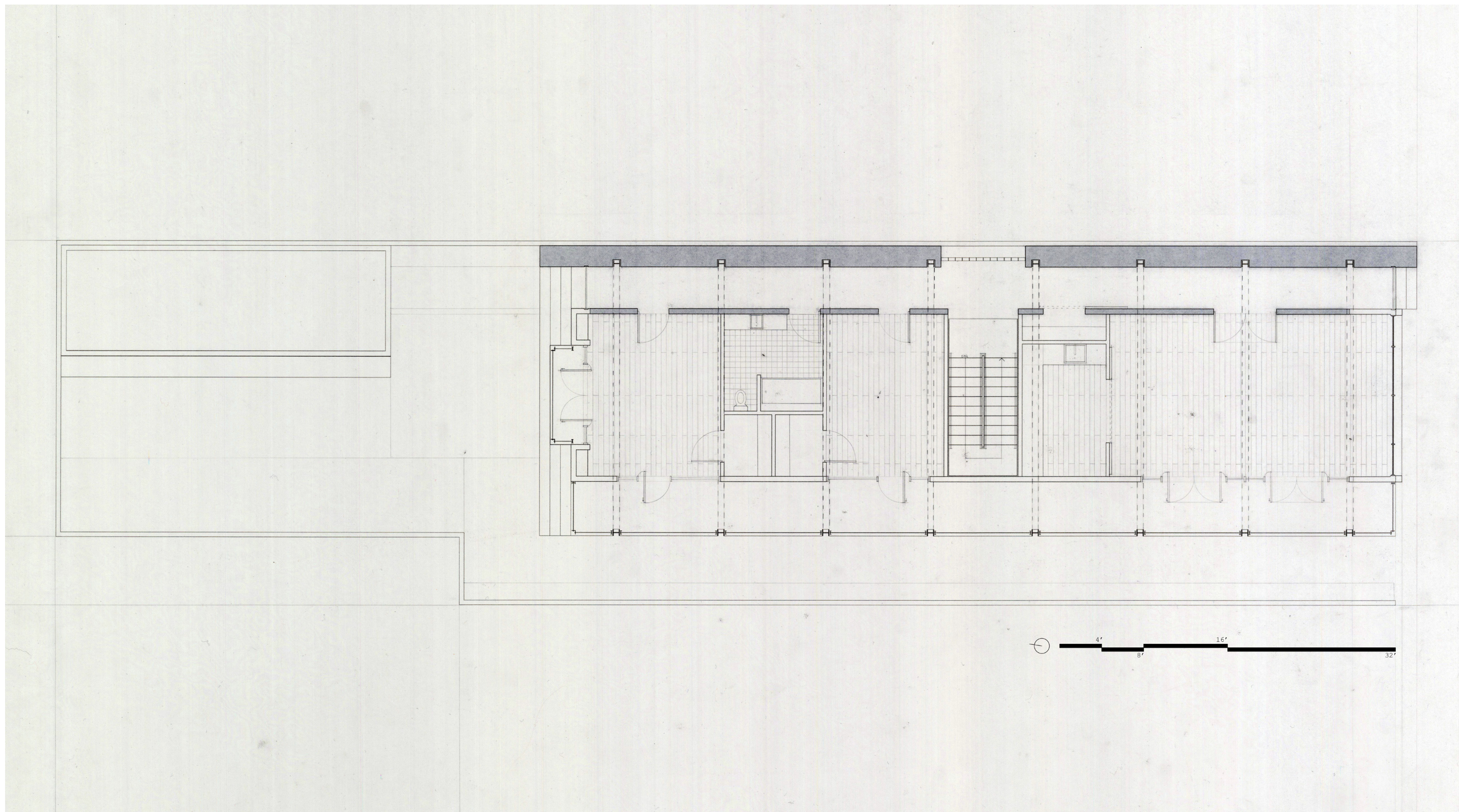
Site Plan, Tradd Street, Charleston, South Carolina



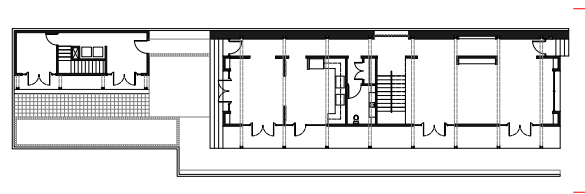
Ground Floor Plan



Second Floor Plan



Third Floor Plan

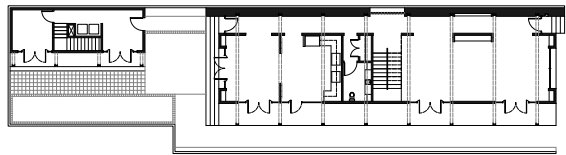


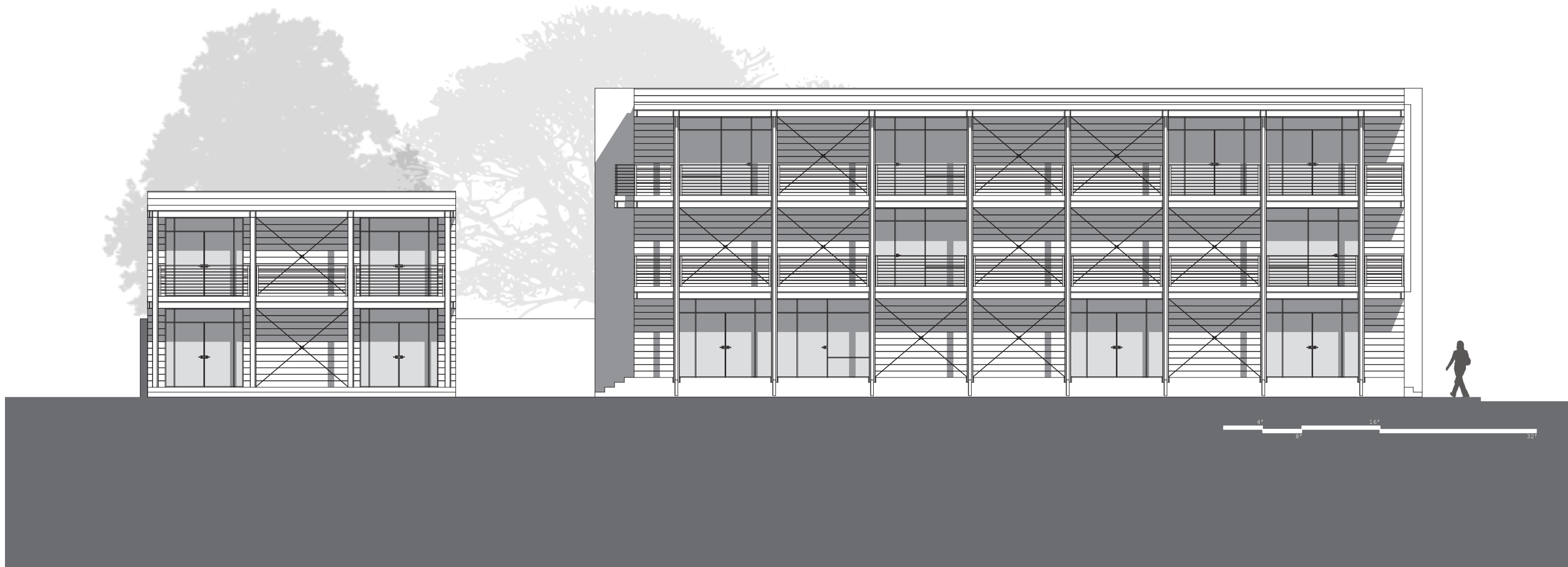


Front Elevation

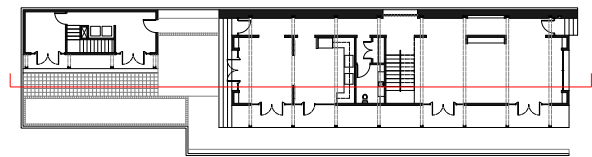


Tradd Street Perspective



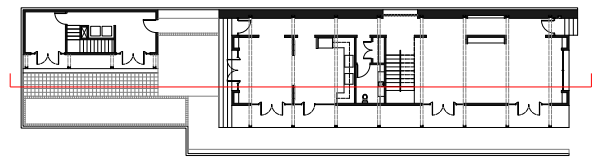


Porch Side Elevation



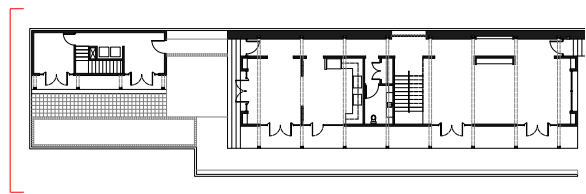


Section Perspective



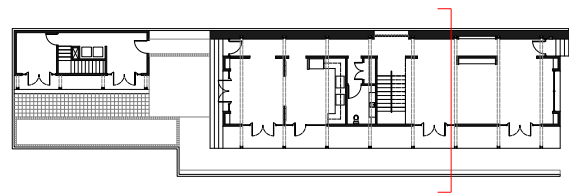


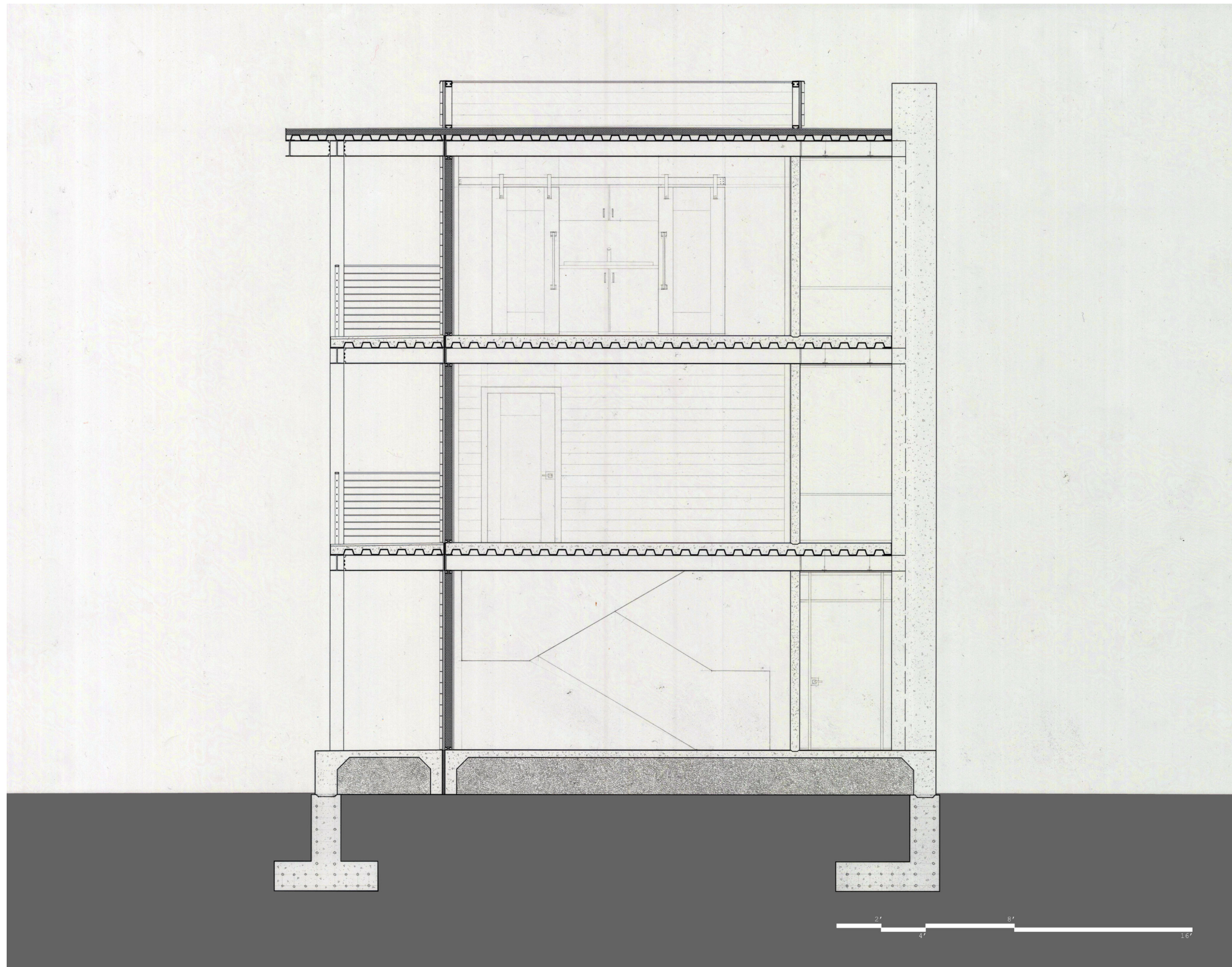
Longitudinal Section



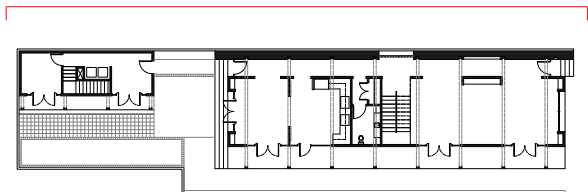


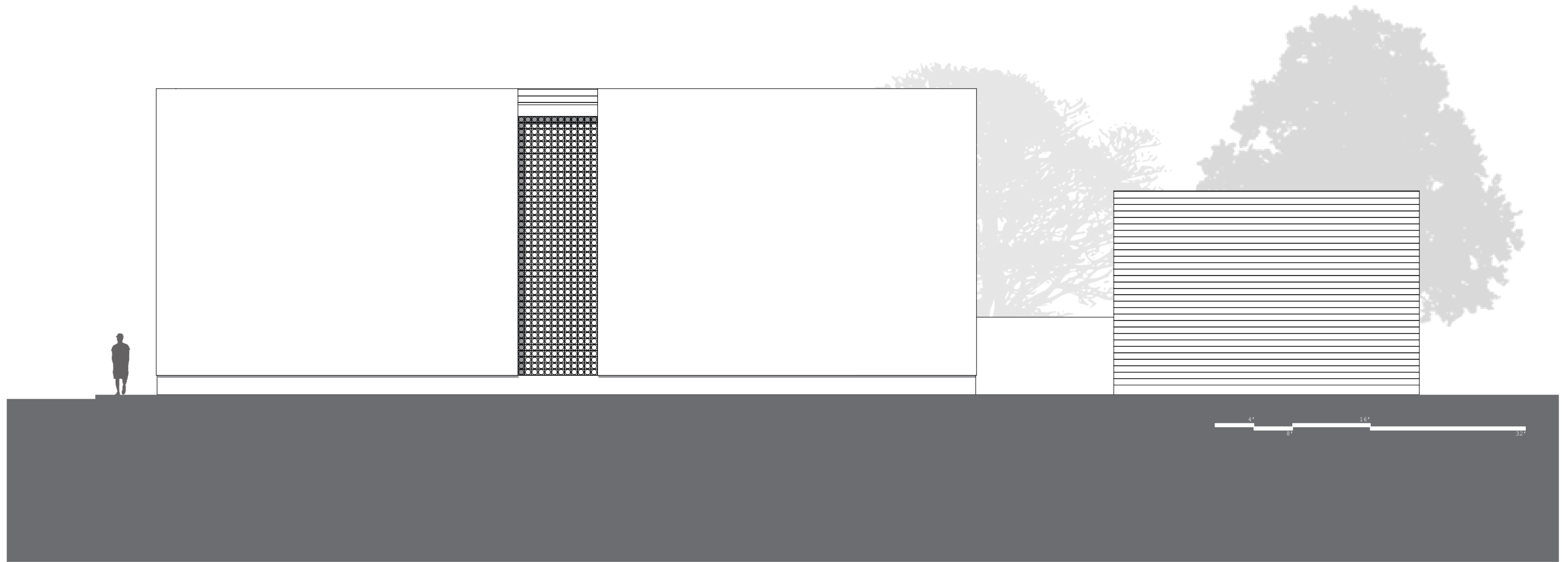
Rear Elevation



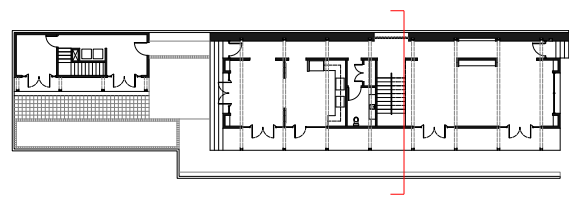


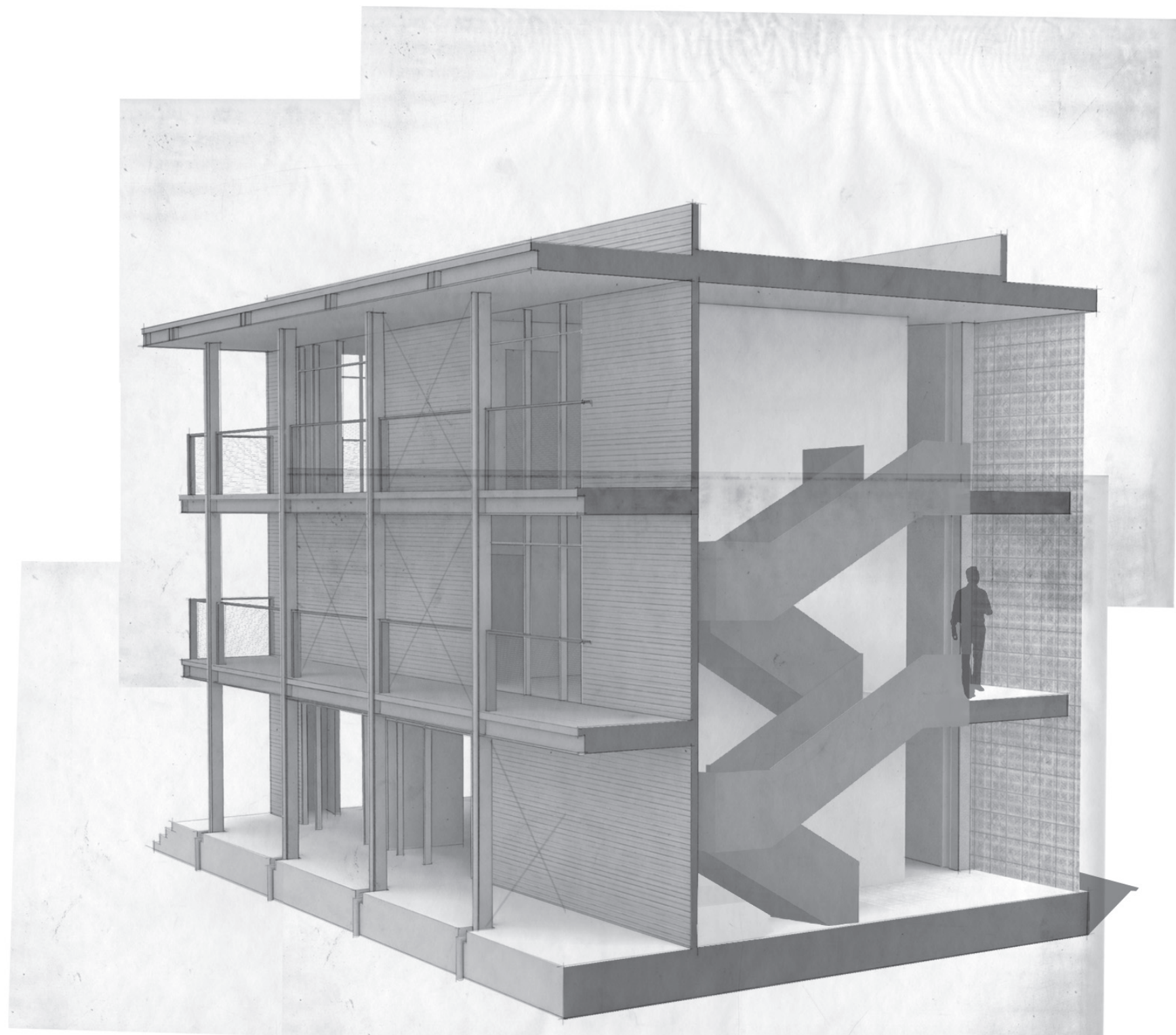
Transverse Section



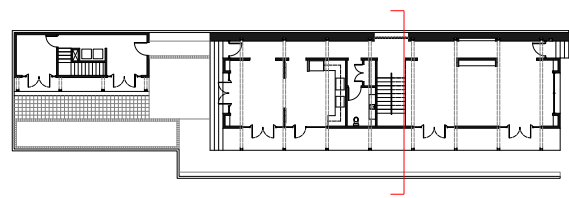


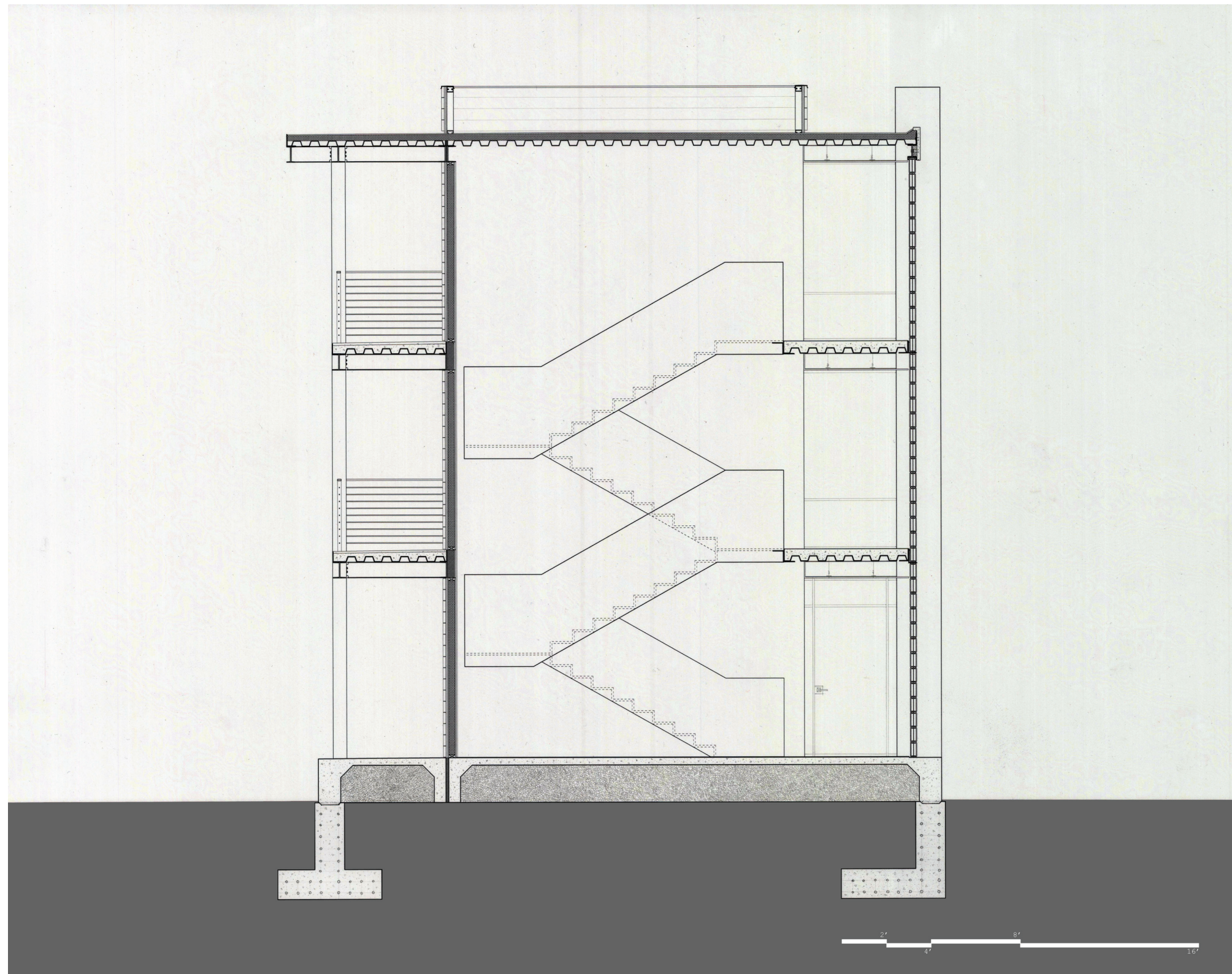
Party Wall Elevation



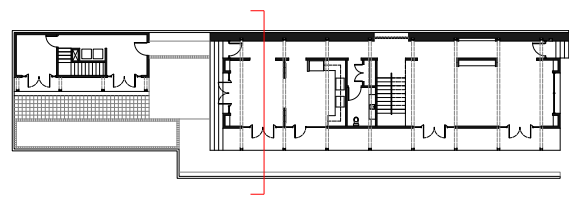


Section Perspective



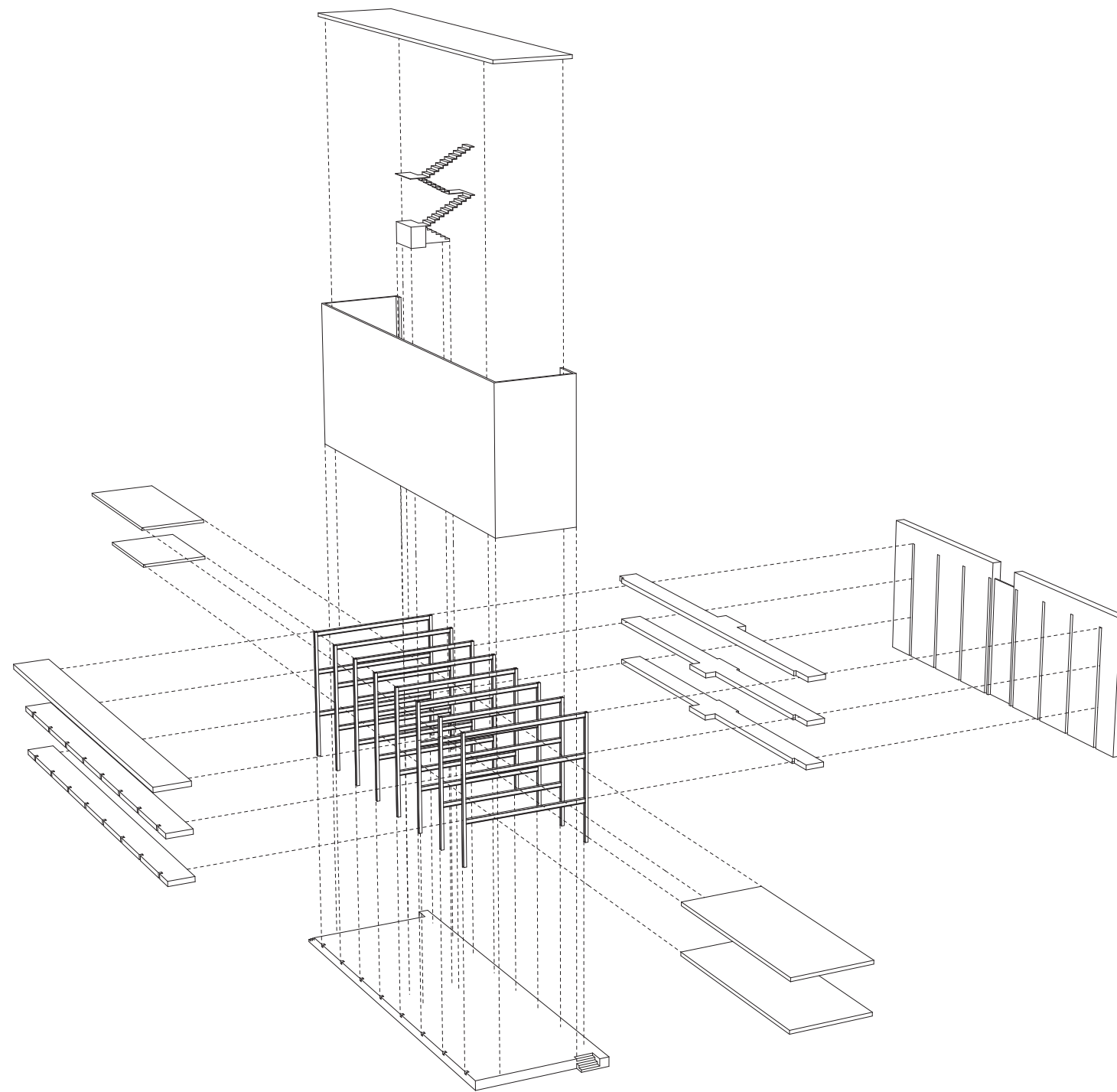


Transverse Section

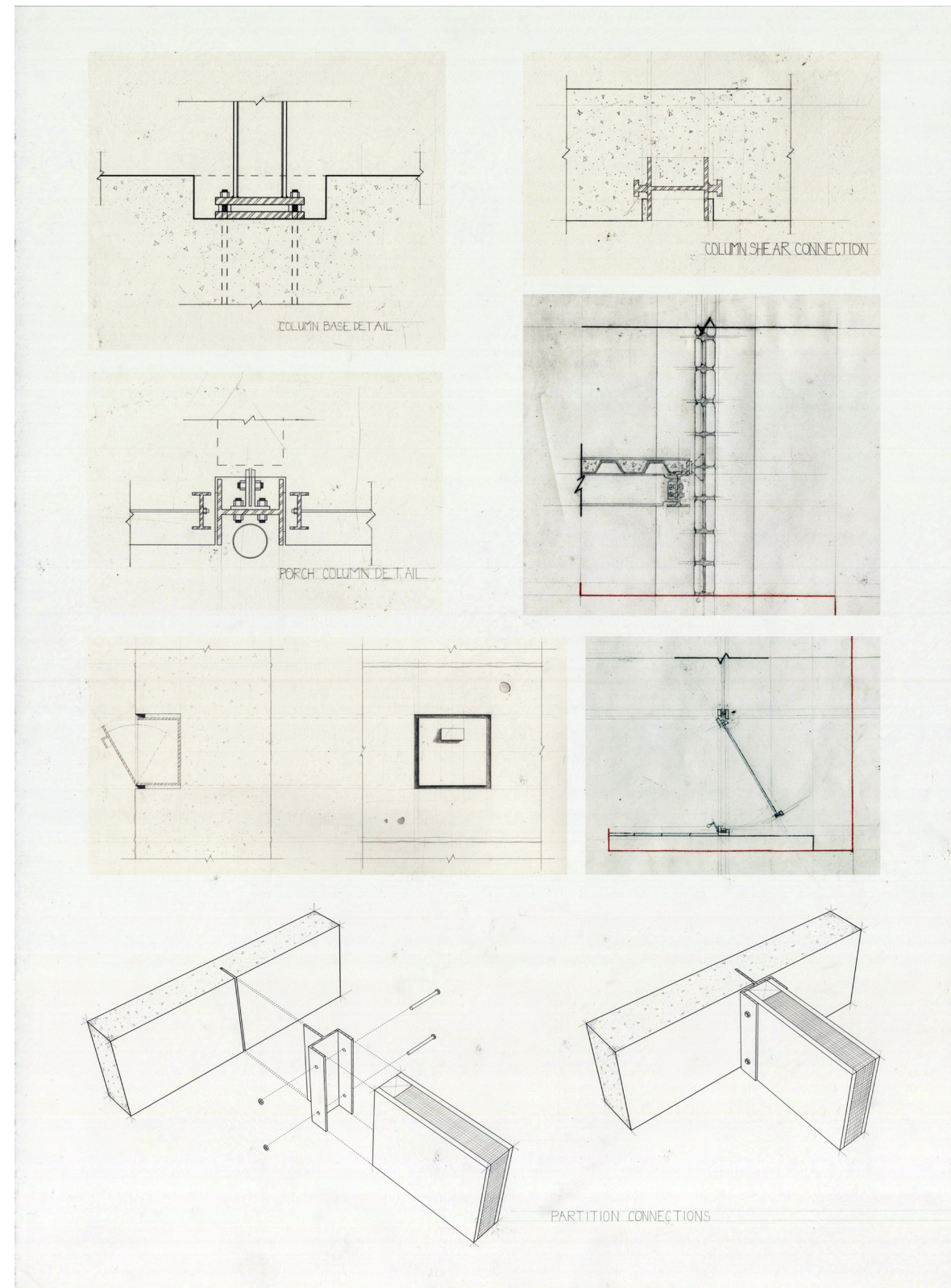




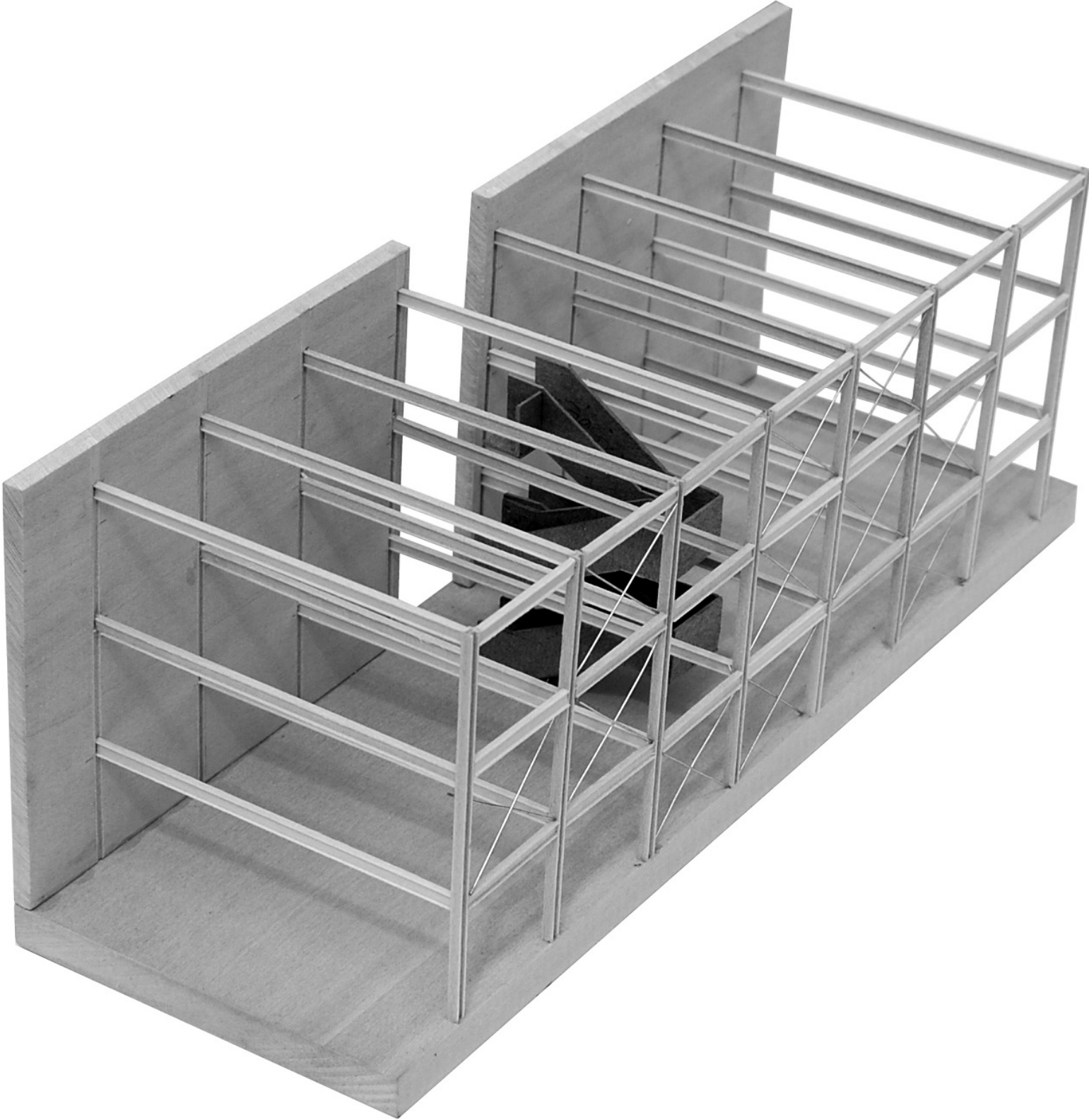
Section Perspective



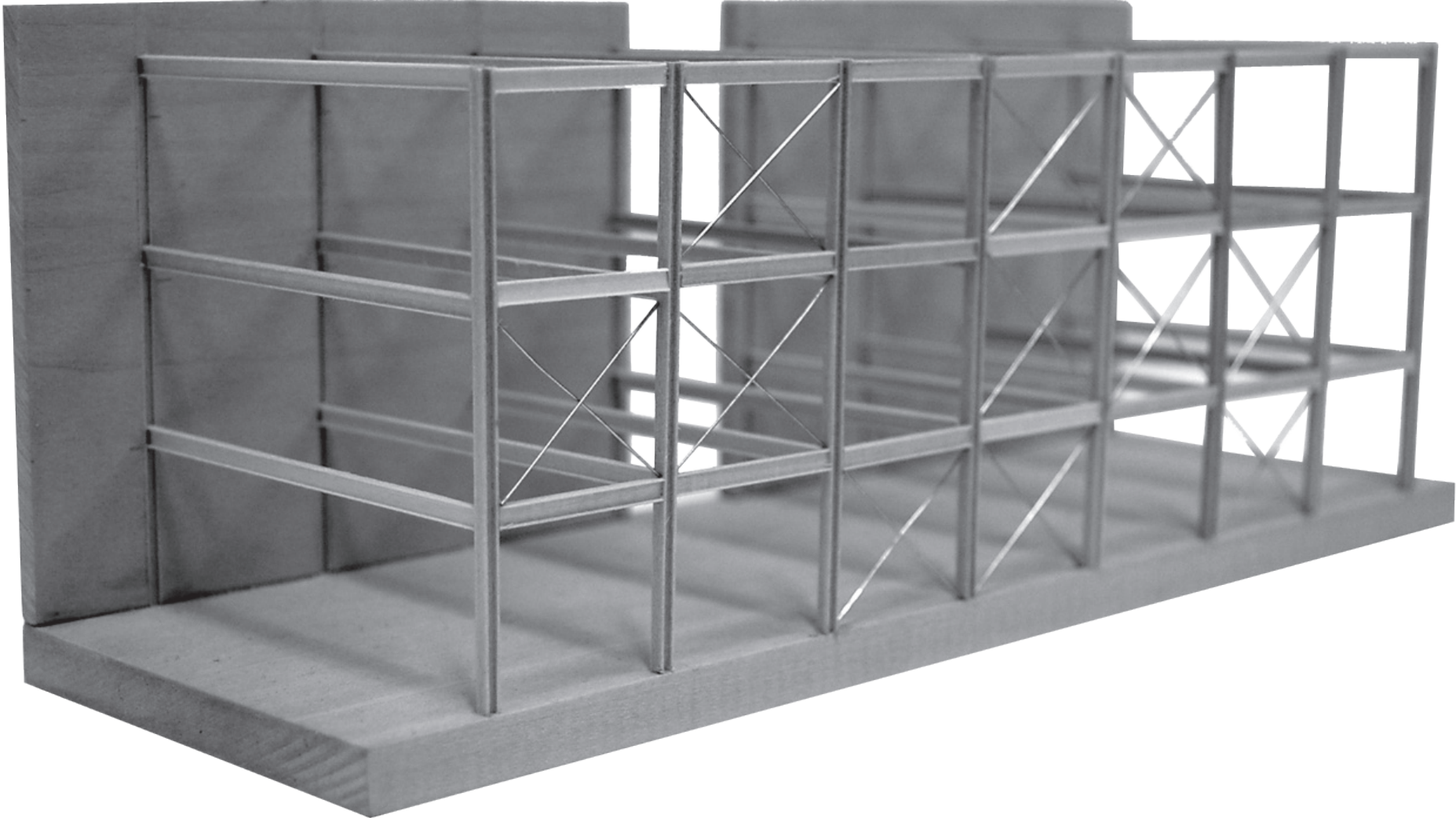
Exploded Axonometric



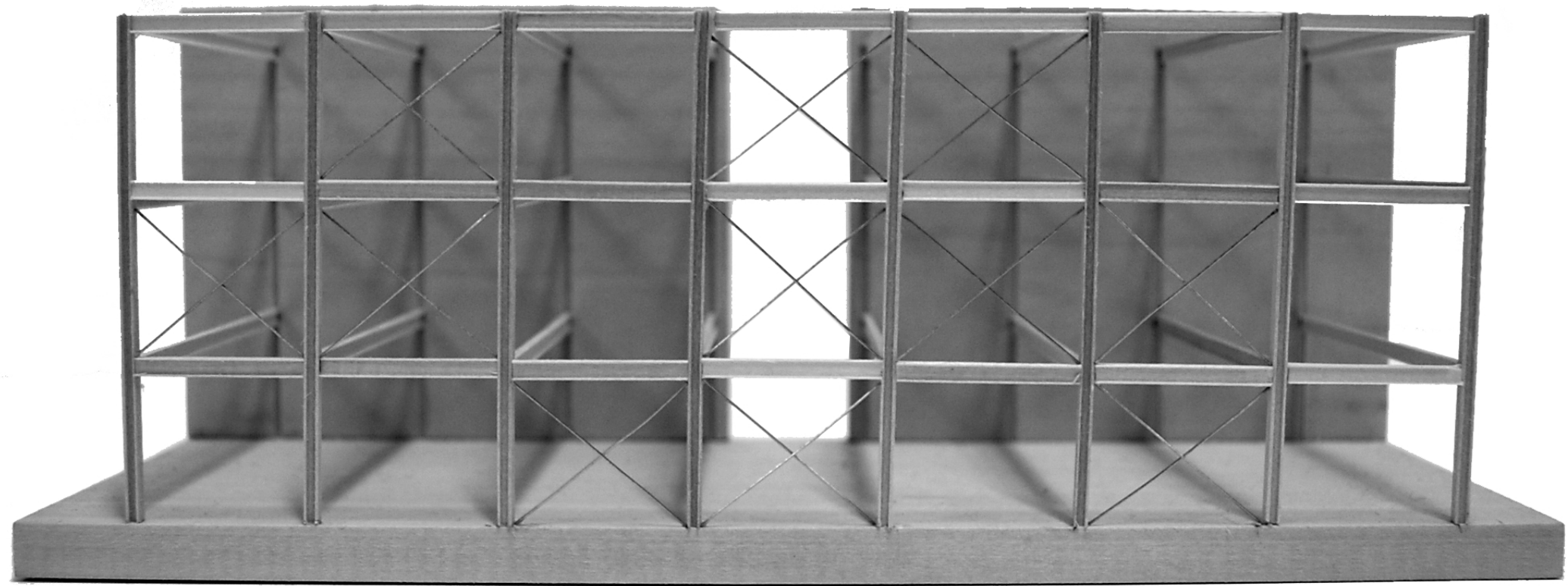
Construction Details



Structural Model

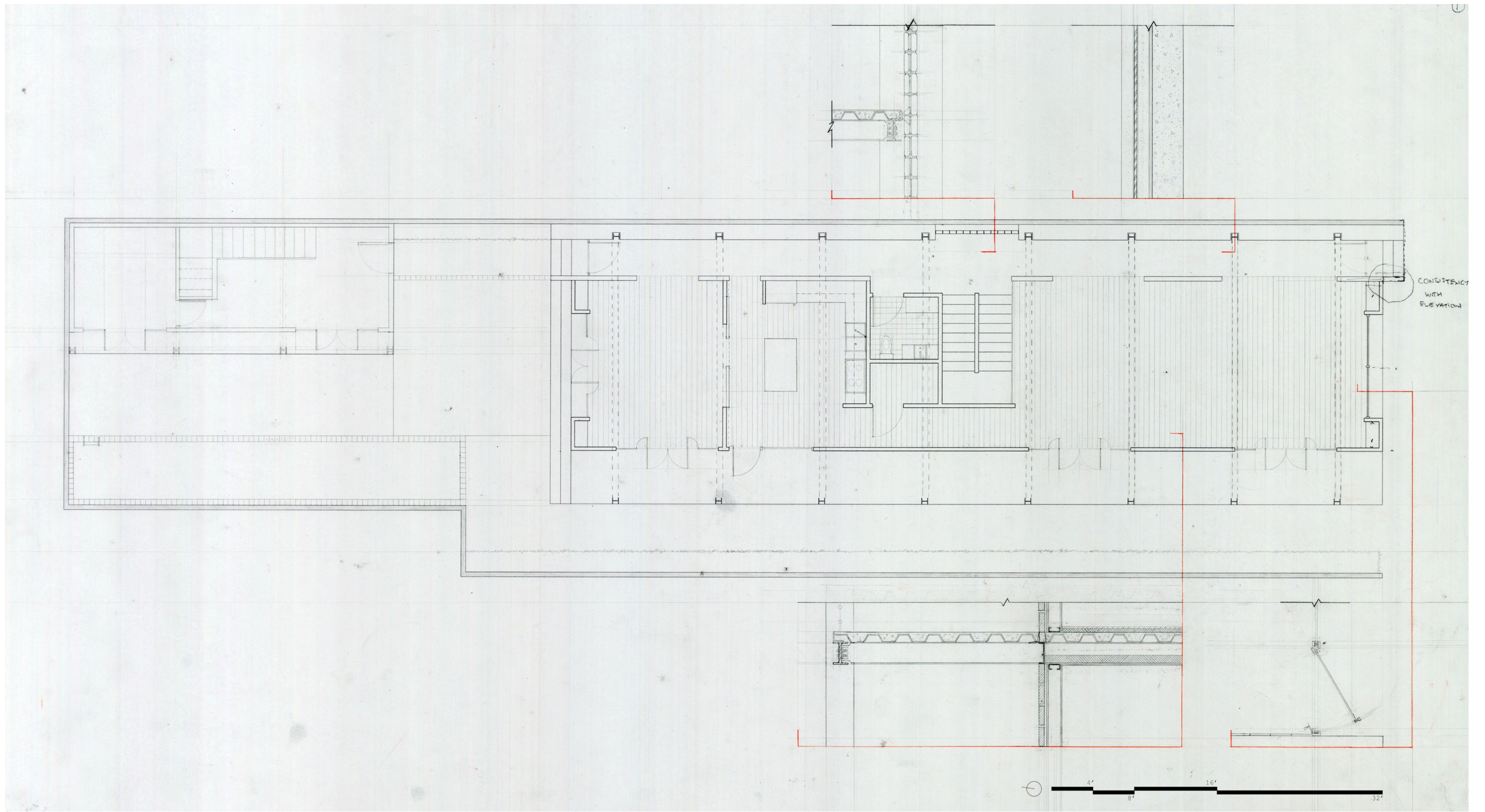


Structural Model

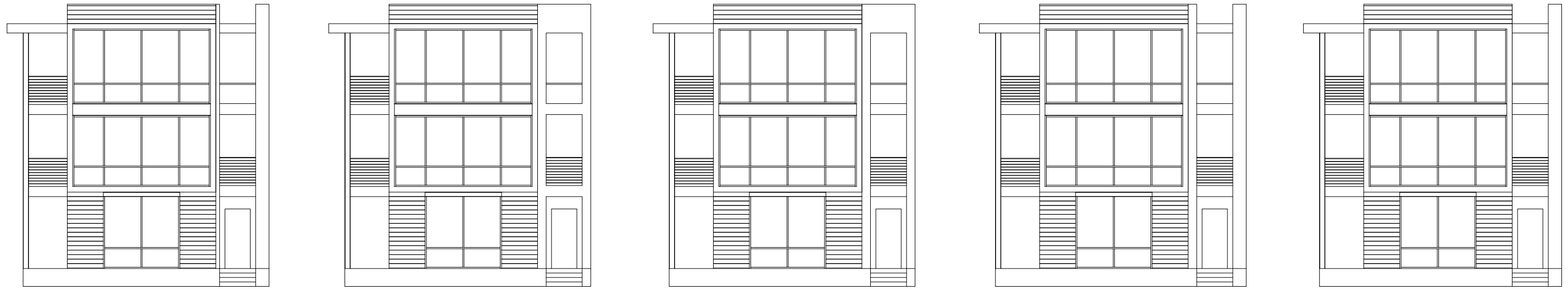


Structural Model

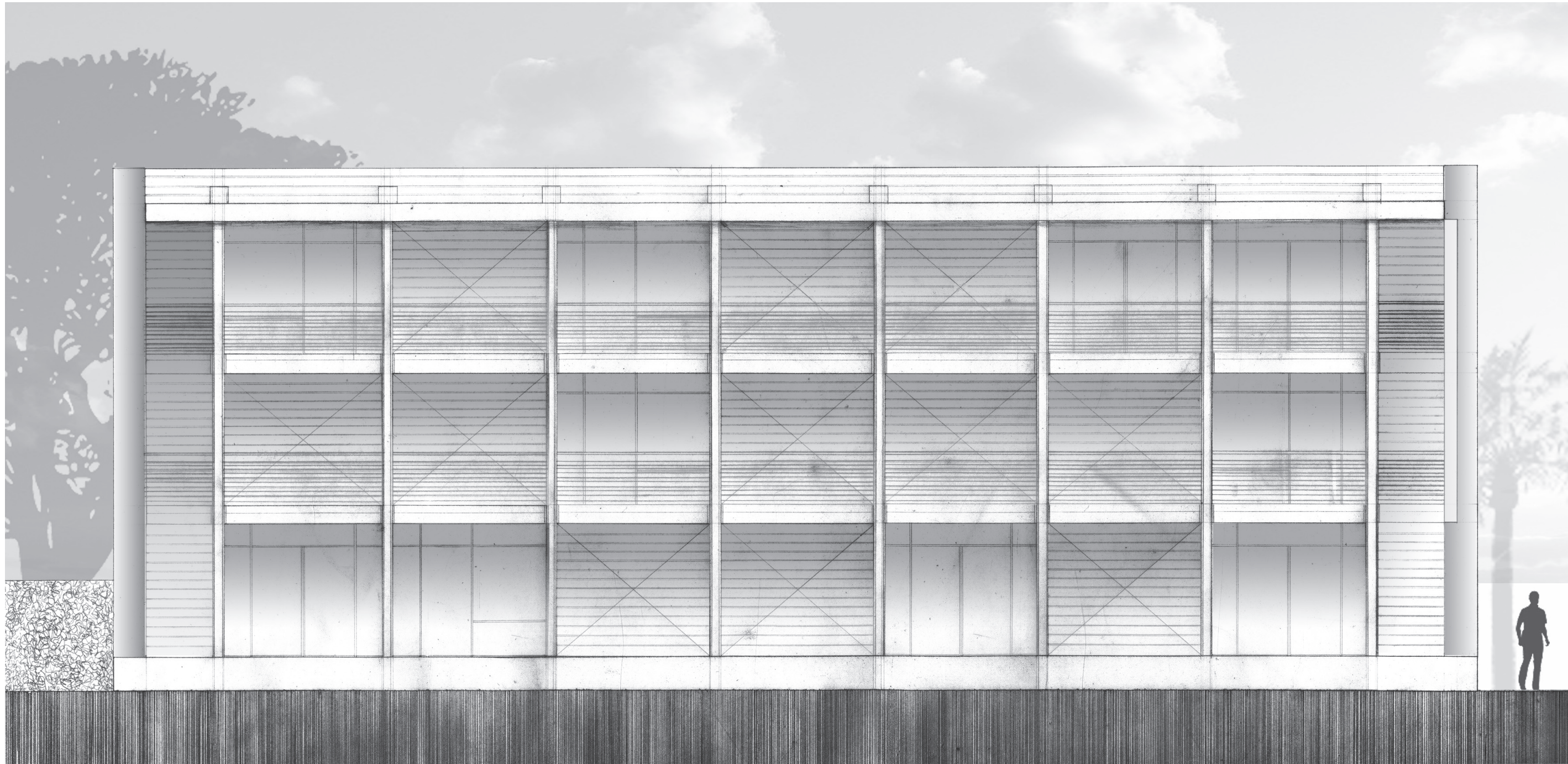
Early Work



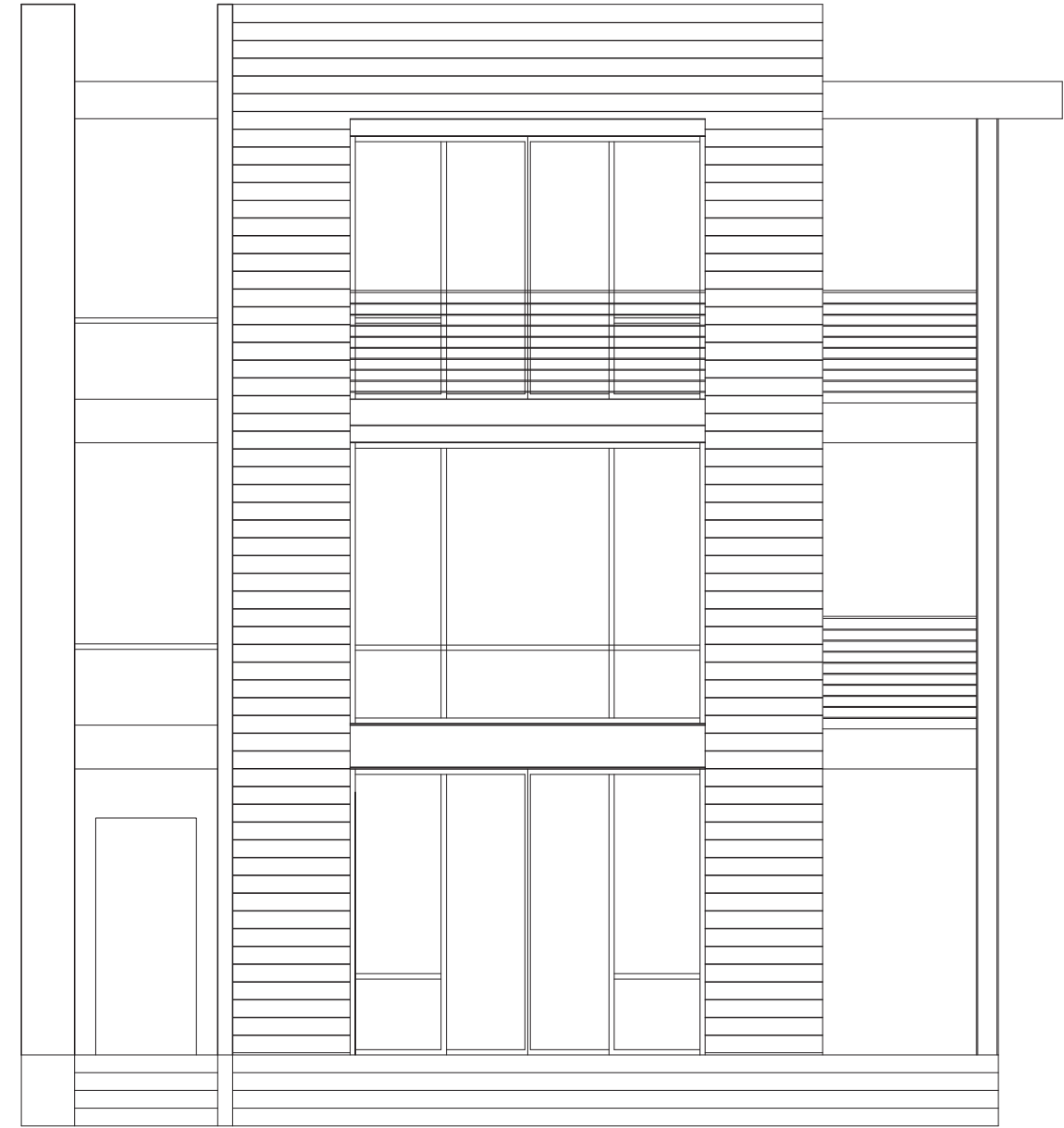
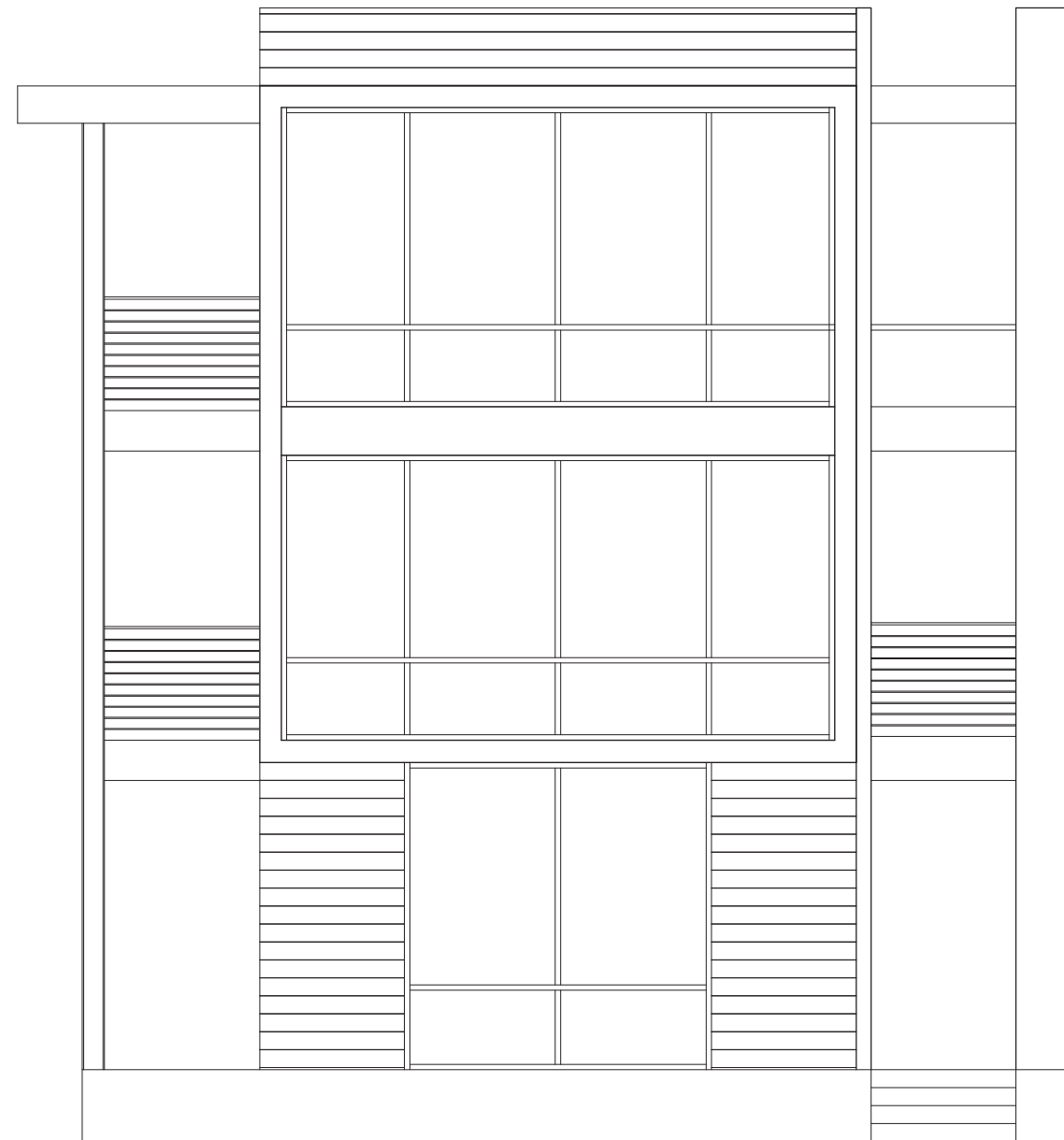
Early Scheme Plan



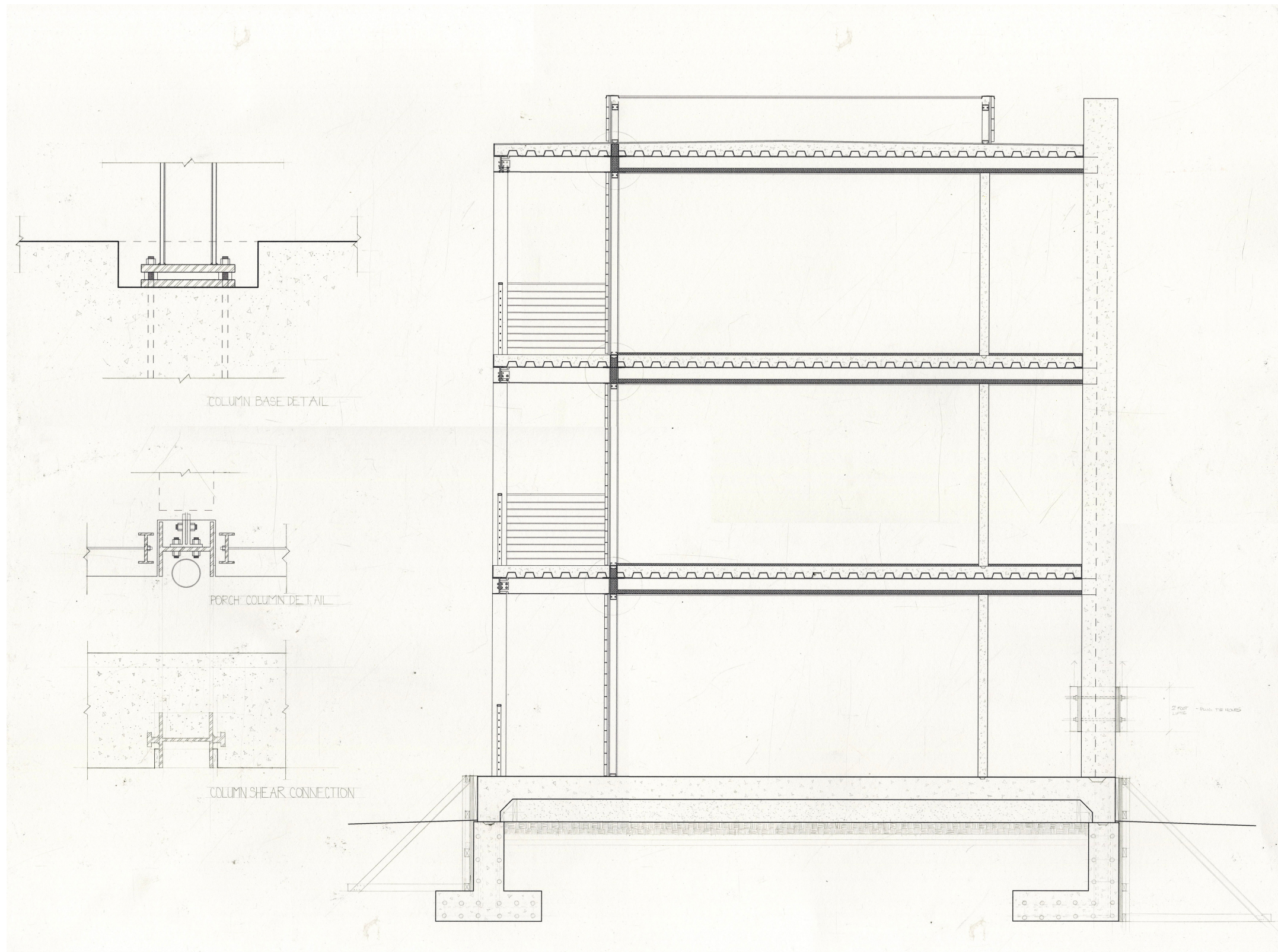
Early Front Elevation Studies



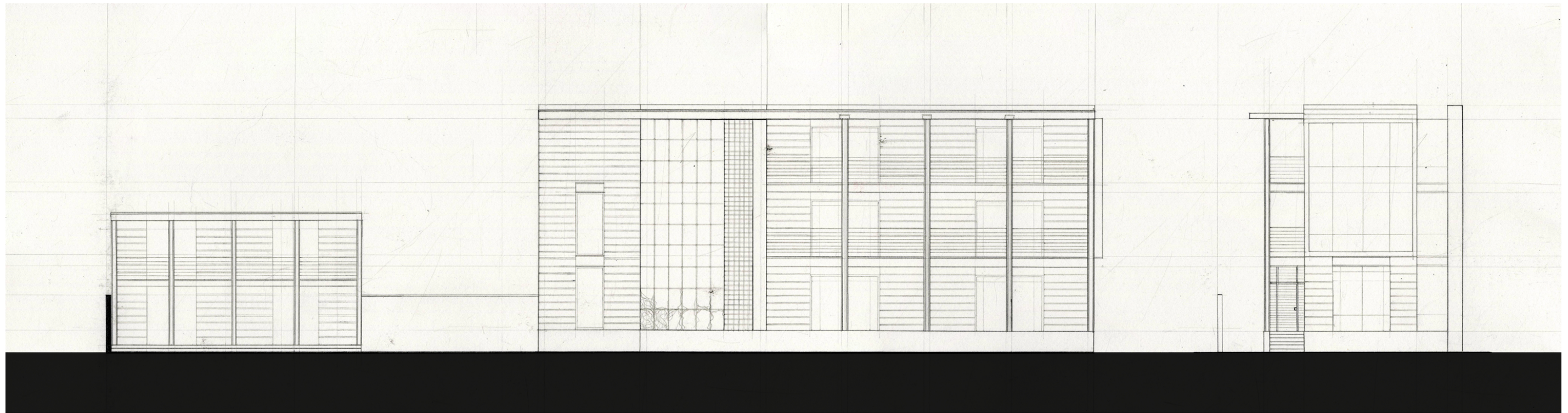
Early Porch Side Elevation



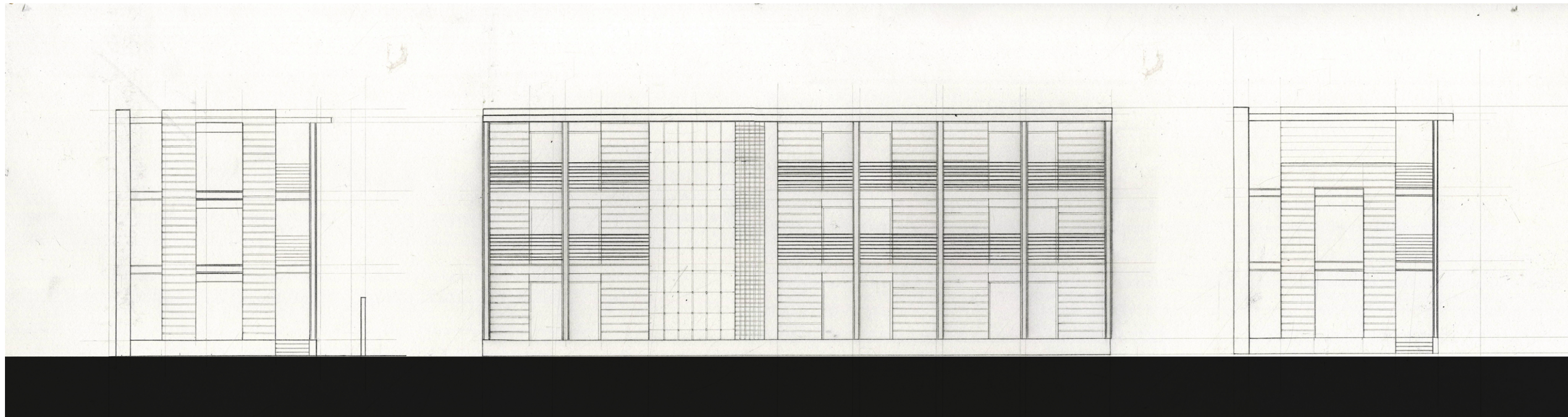
Early Front and Rear Elevations



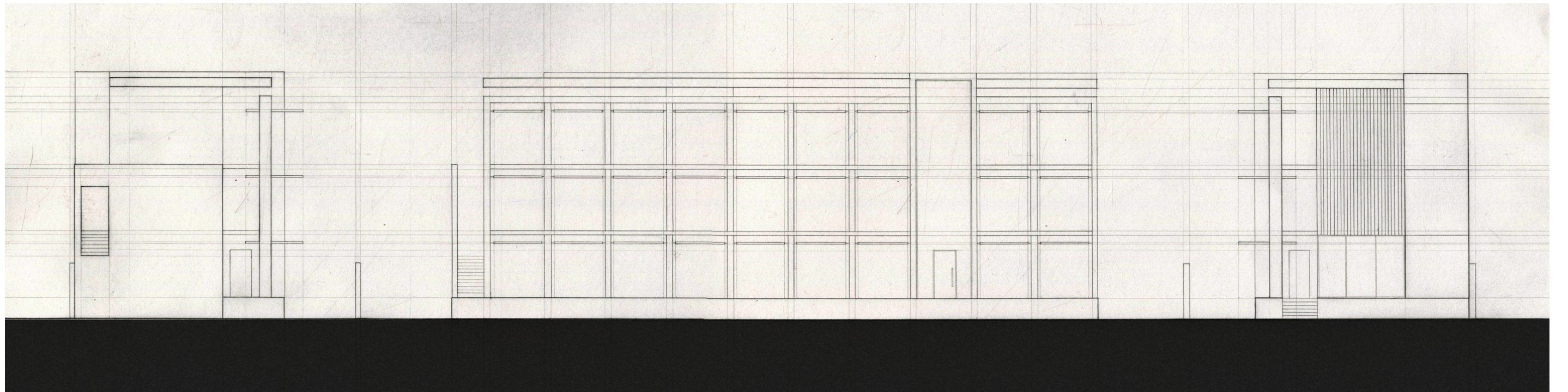
Early Transverse Section



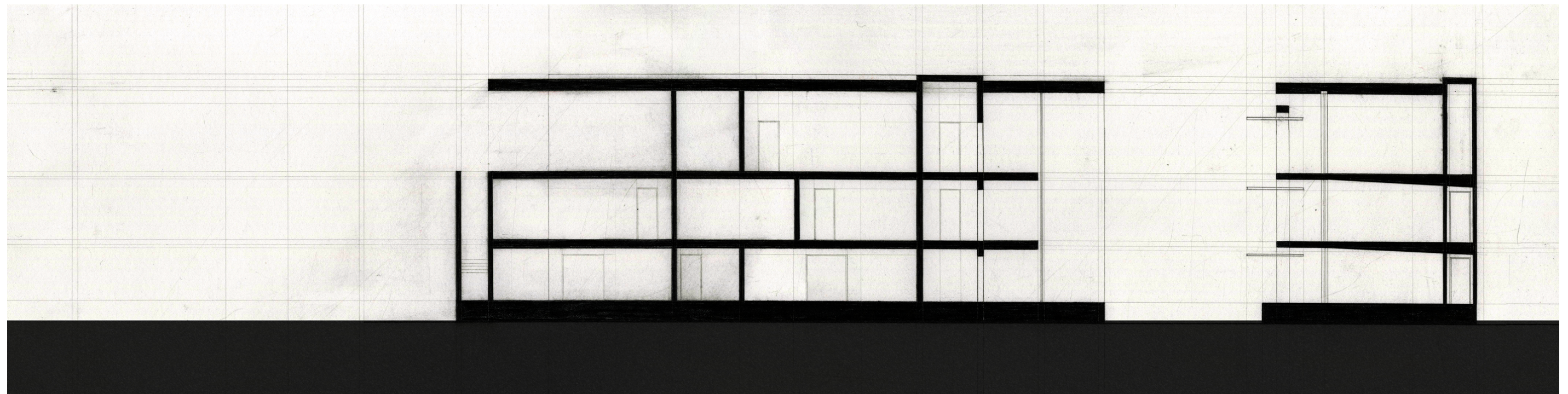
Early Porch Side Elevation



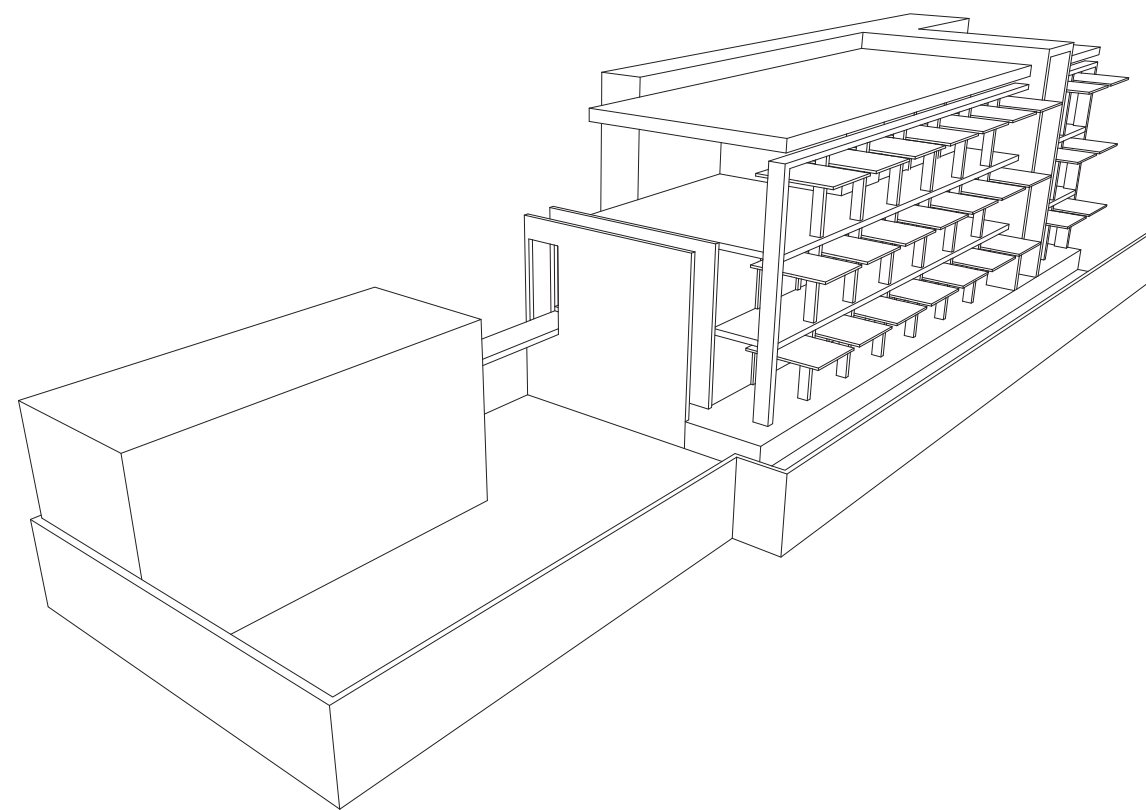
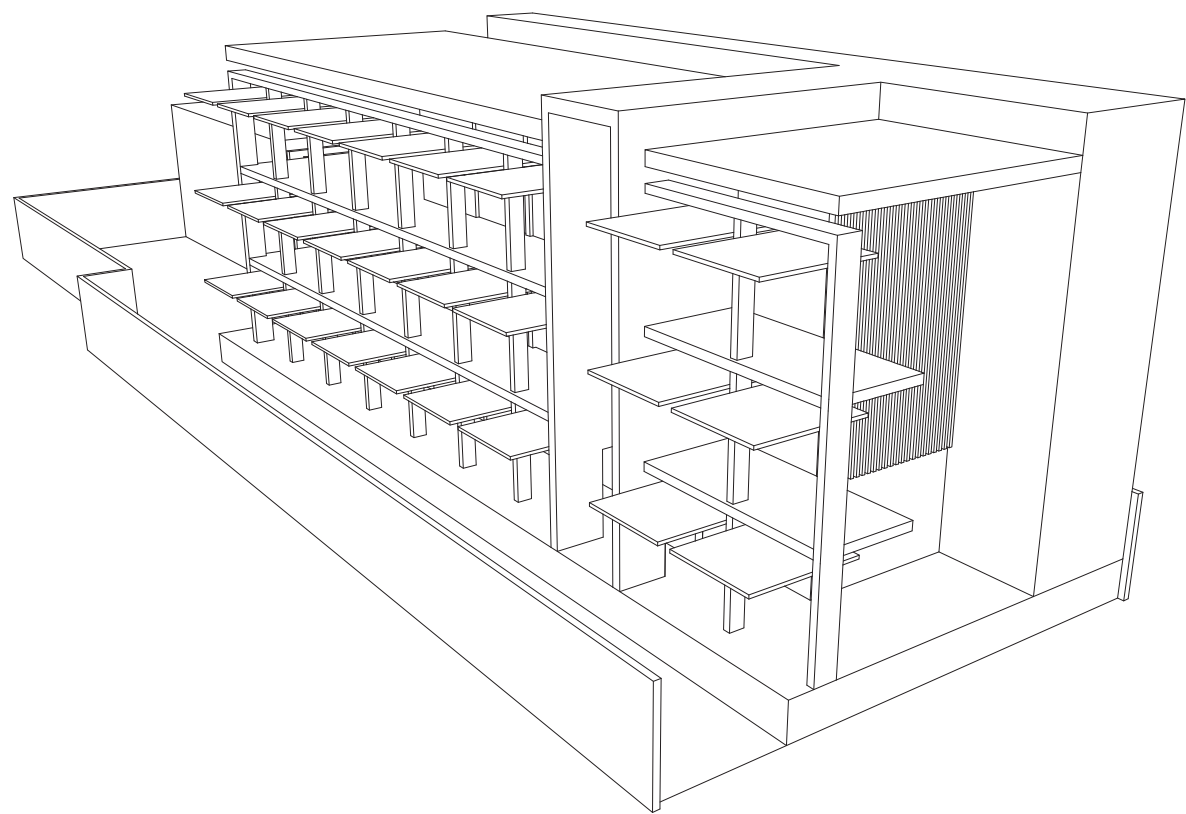
Early Porch Side Elevation



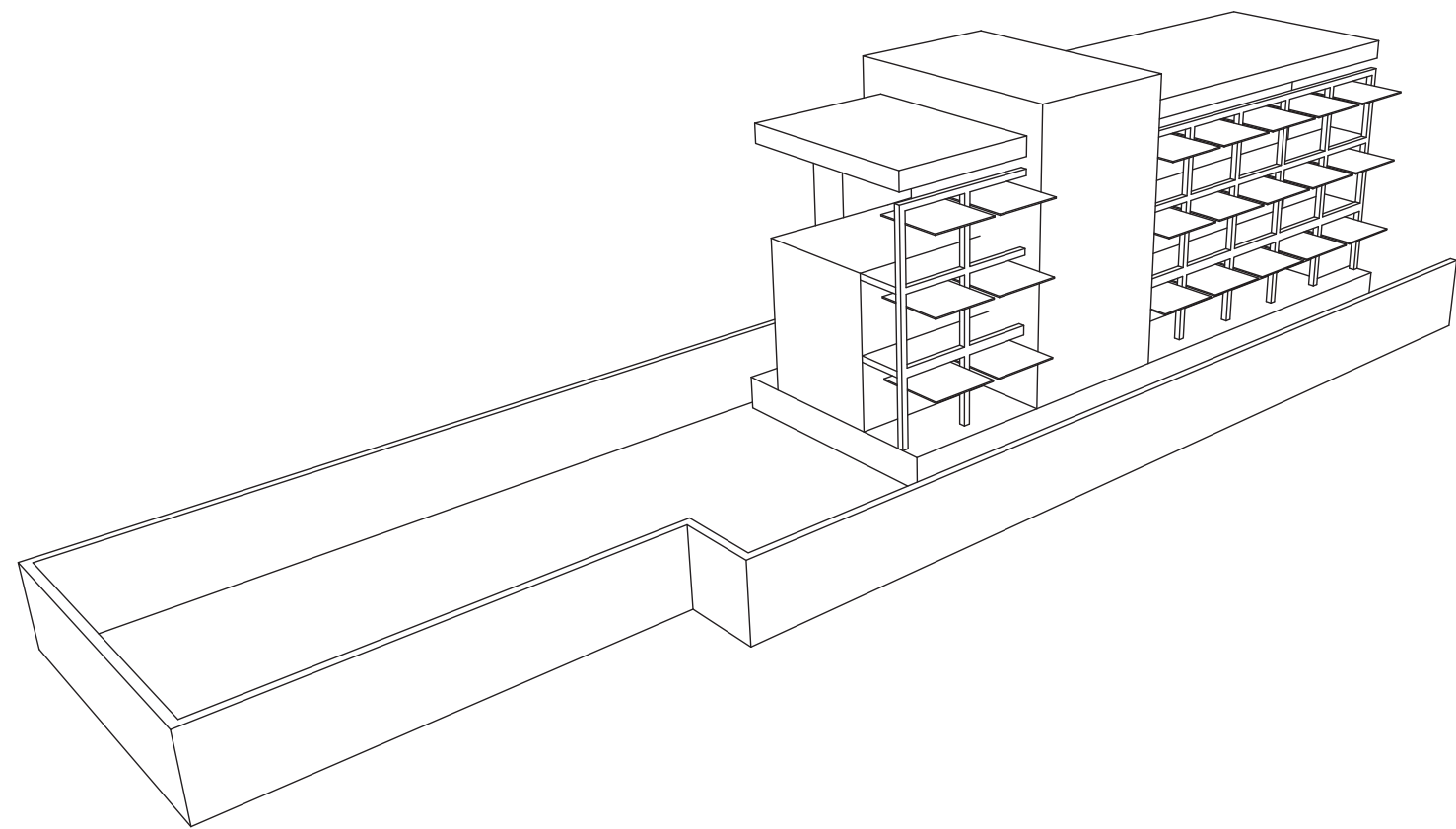
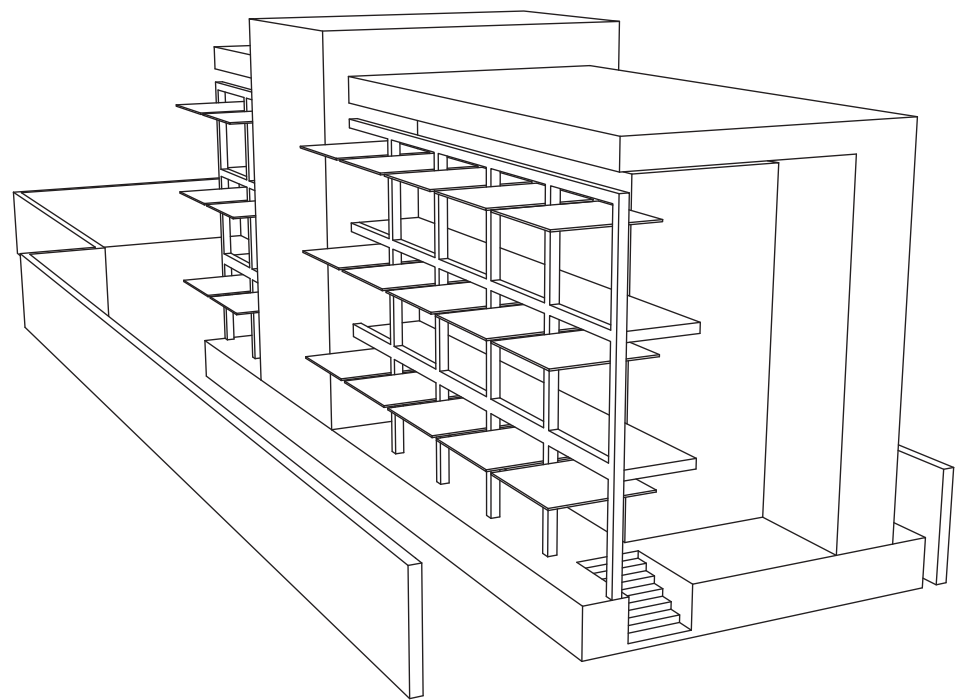
Early Porch Side Elevation



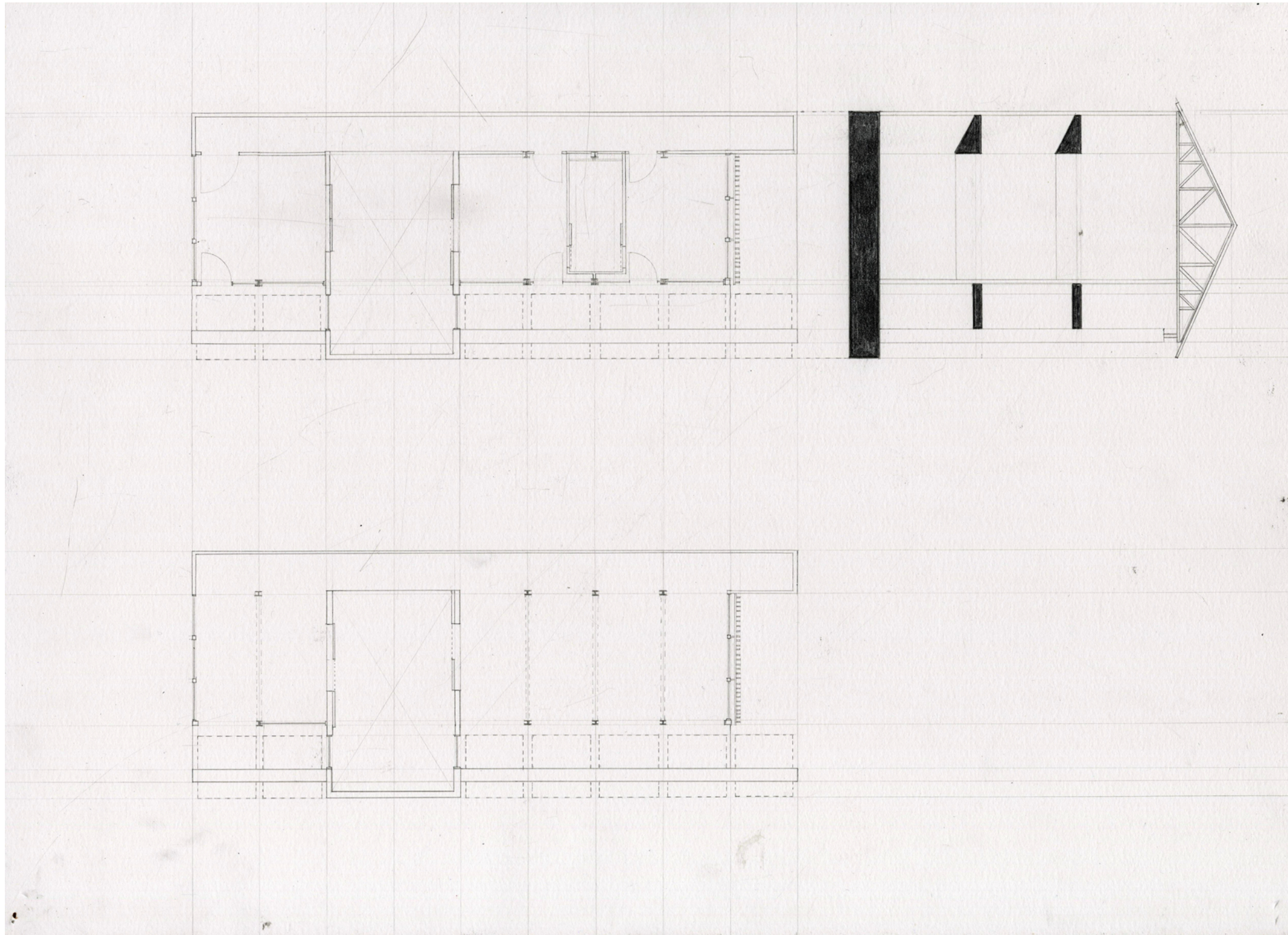
Early Longitudinal Section



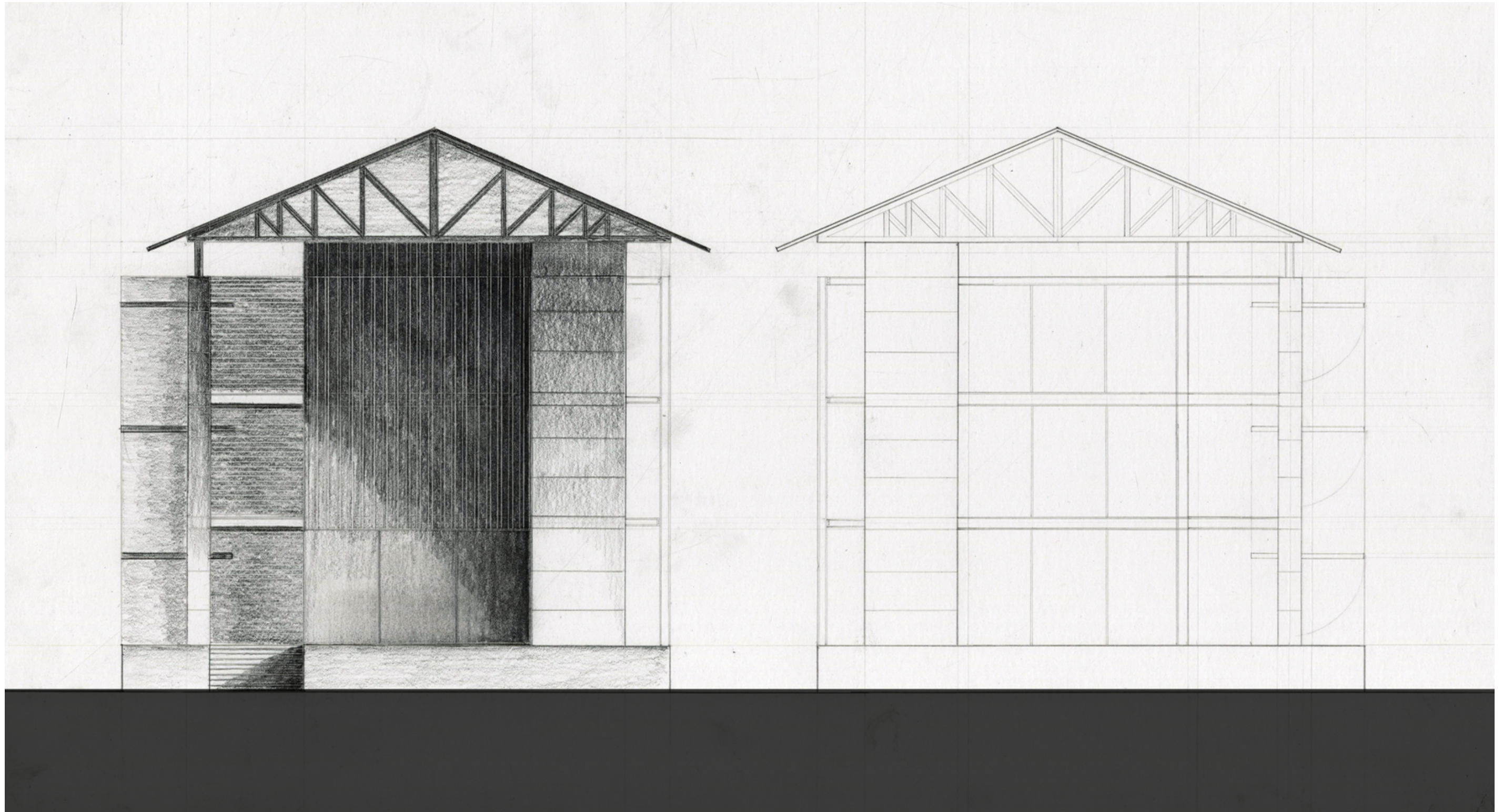
Early Schemes



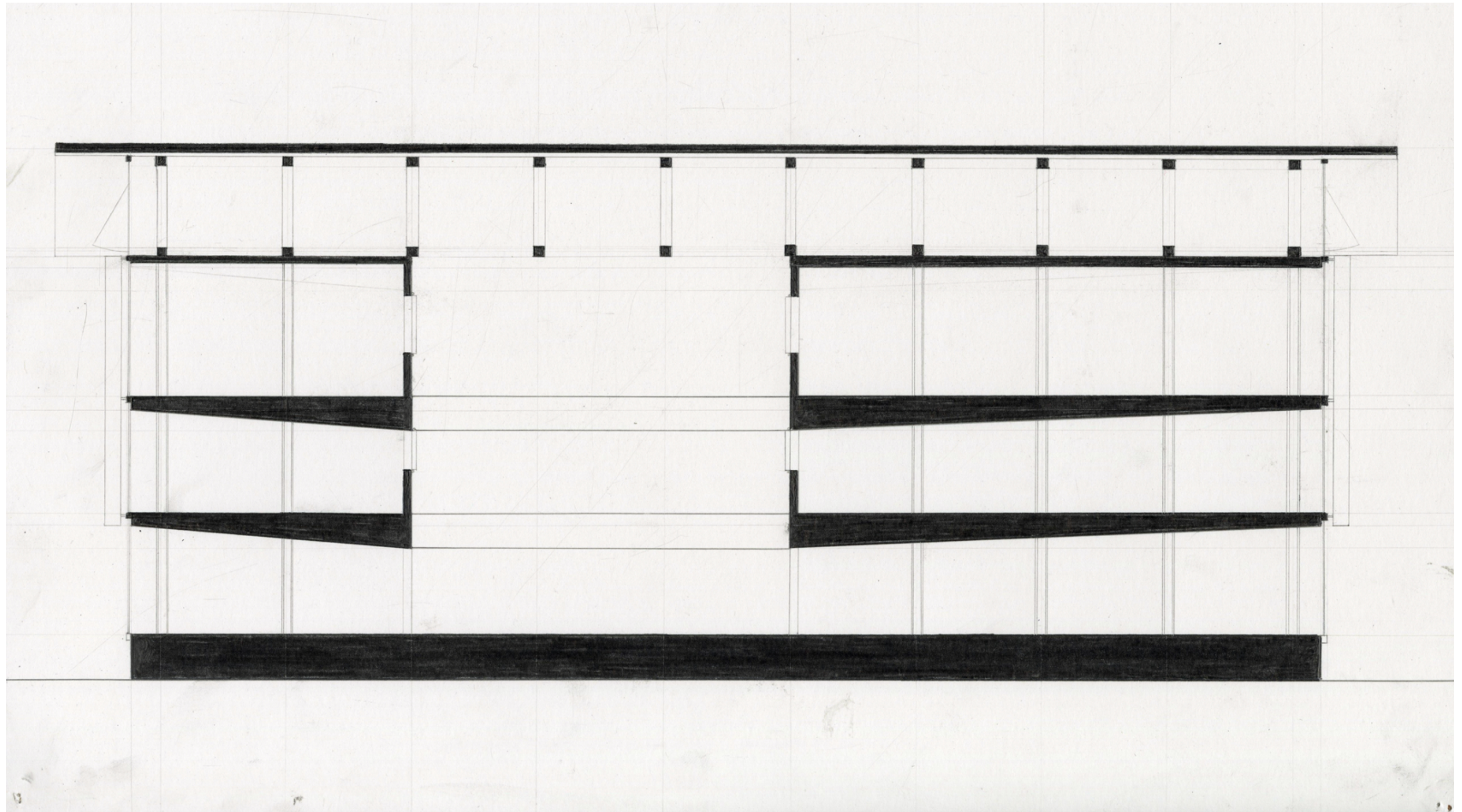
Early Schemes



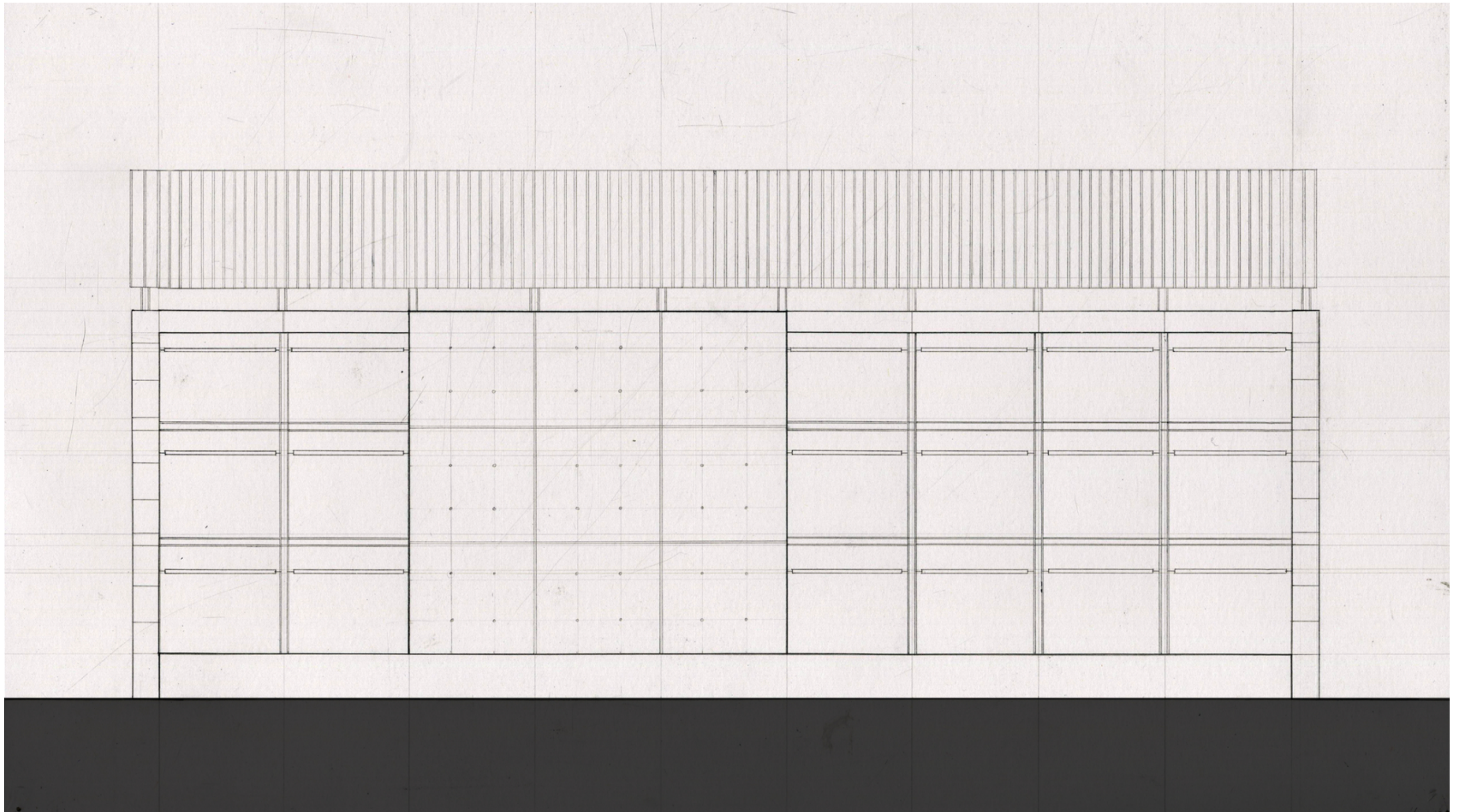
Early Scheme



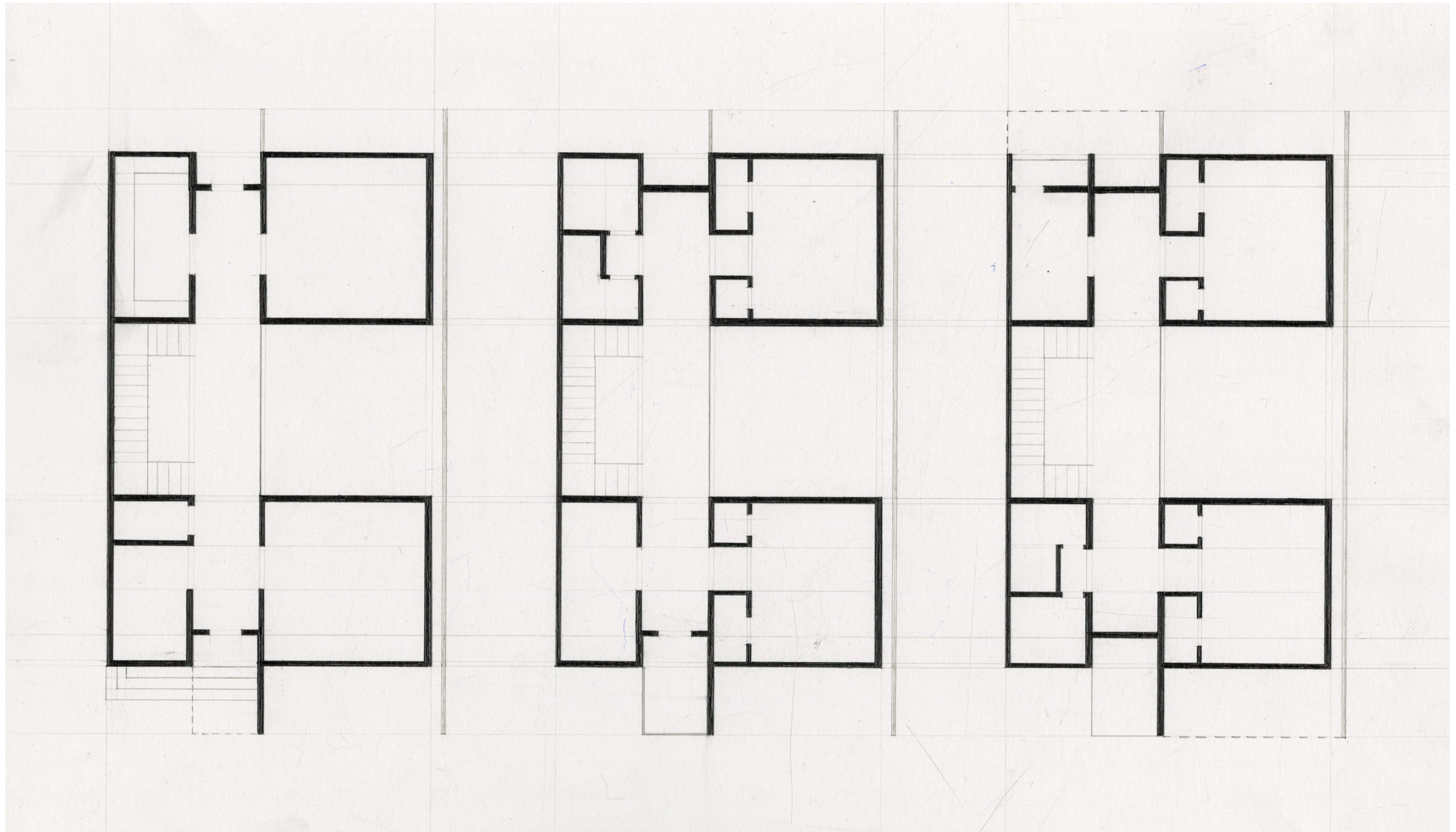
Early Scheme



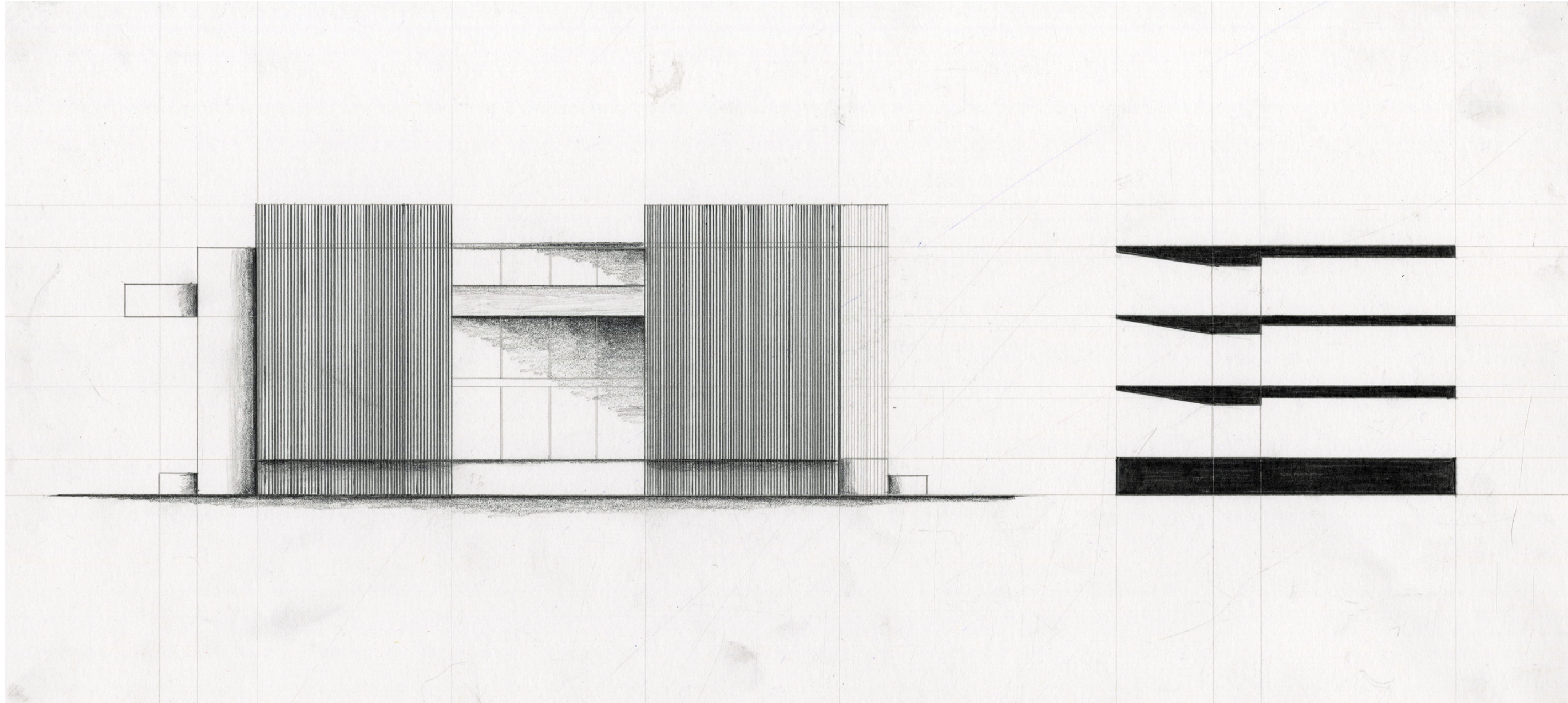
Early Scheme



Early Scheme



Early Scheme



Early Scheme

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