

IntD 25

Design

Fundamentals

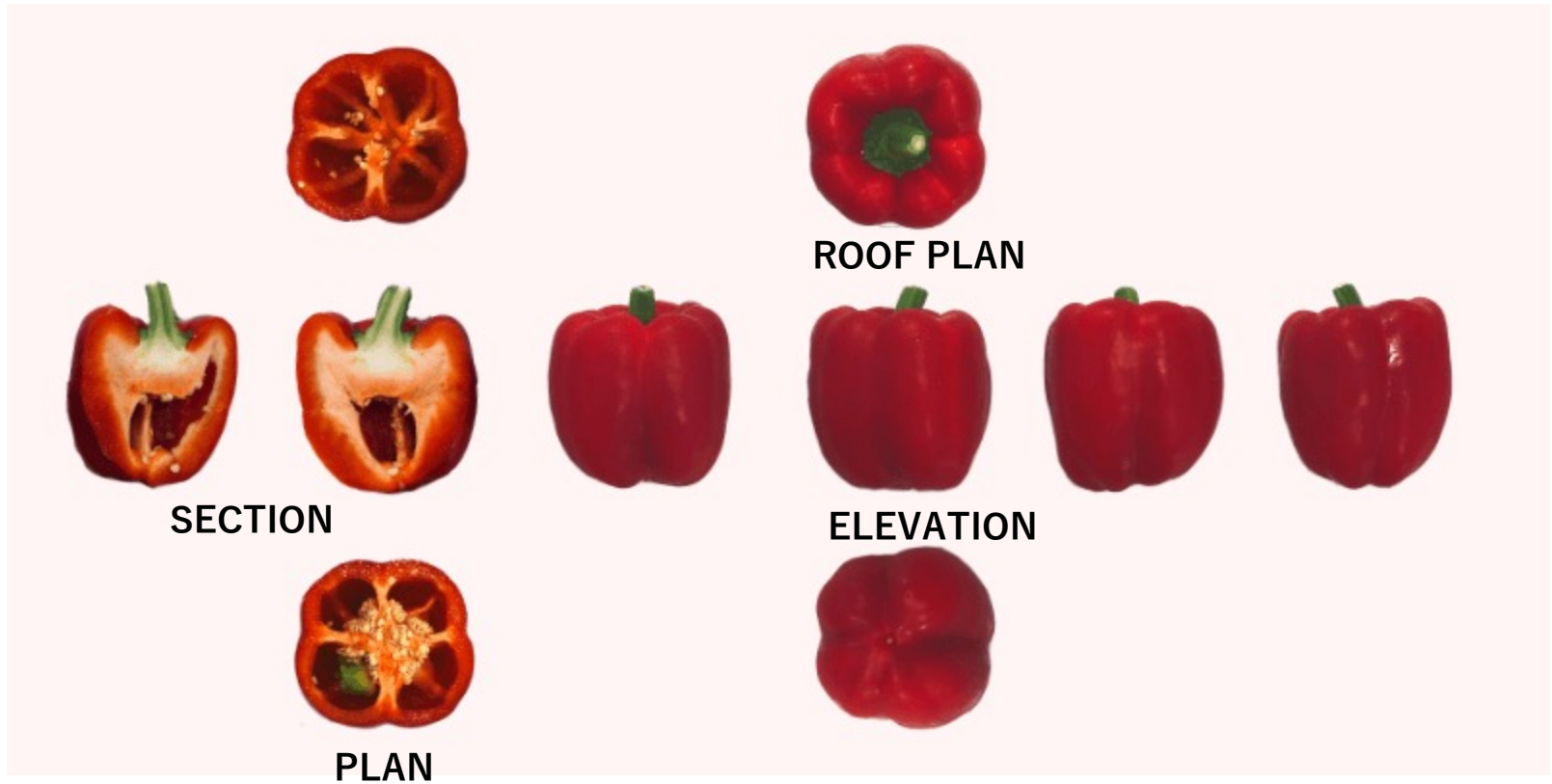


What are Plan, Section & Elevation?

- Scaled representations of built form; made smaller to fit on a drawing
- Orthographic drawings used to represent 3-D objects
- Basic architectural drawings to capture the size, height, materials, and systems in a building
- To better understand these views, let us consider a bell pepper!



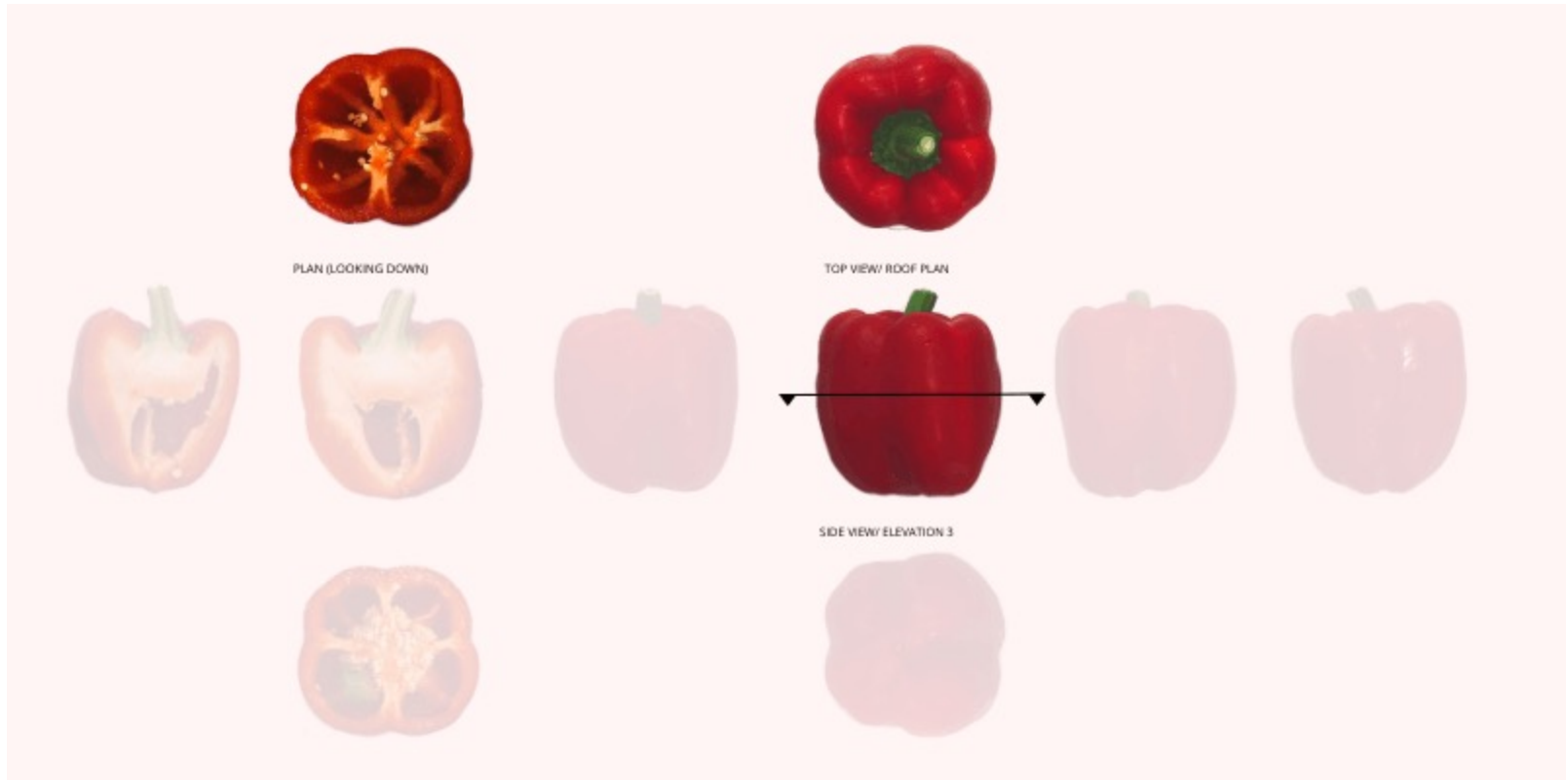
CONSIDER A BELL PEPPER



VIEWS OF A BELL PEPPER (LOL)

Plan Views

- Plan views are horizontal projections as seen from above: floor plans, roof plans, reflected ceiling plan
- Floor plans are **horizontal sections**, *looking down*, cutting through walls, doors, windows & columns at a fixed datum (+/- 4 feet AFF)
- Floor plans tell us about the arrangement of space including wall thickness, door and window sizes and other architectural features
- Now, back to the bell pepper...



PLAN VIEW OF A BELL PEPPER

Section Views

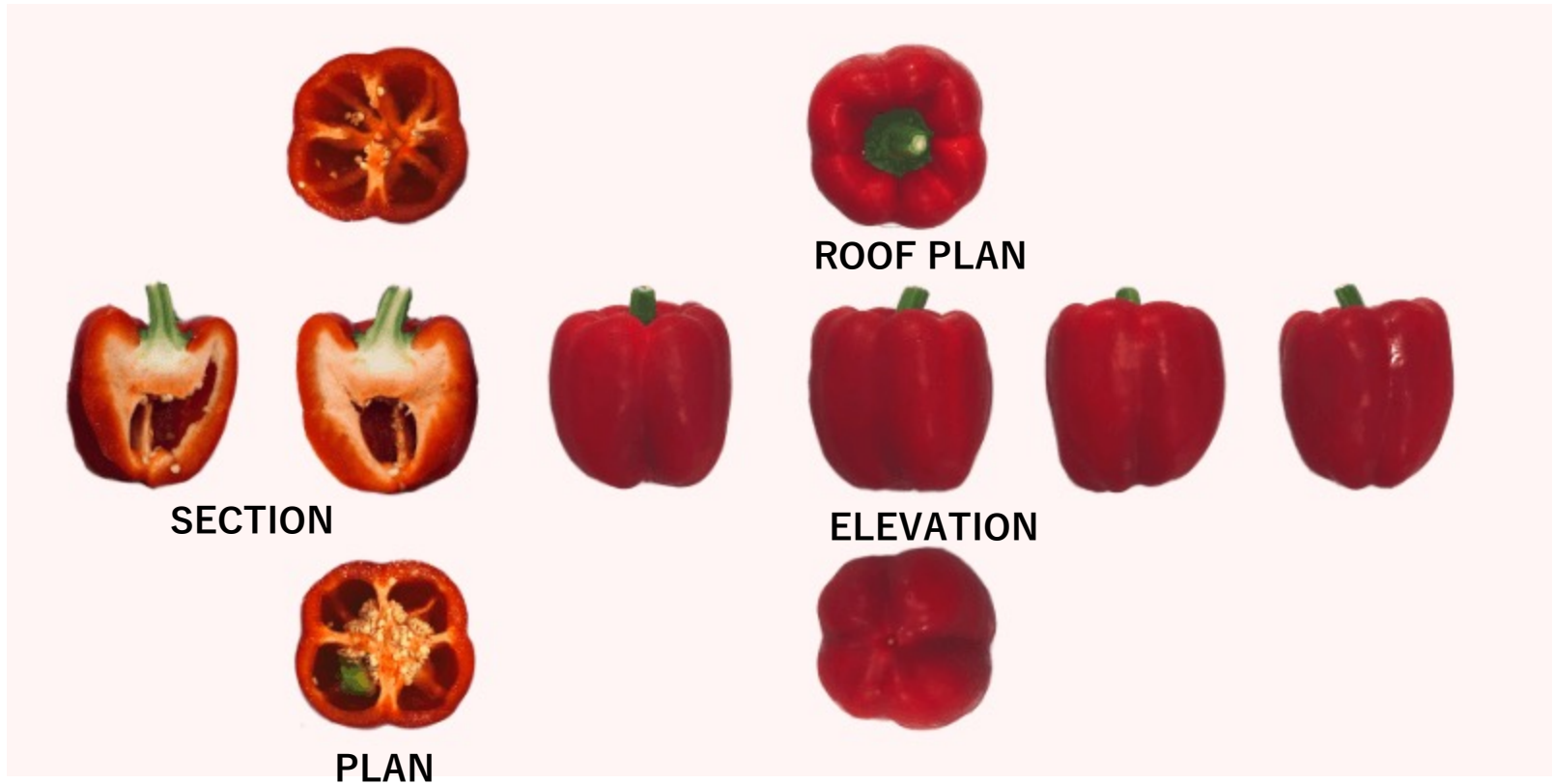
- Sections are **horizontal projections** *cut vertically* by an intersecting plane
- The cut reveals vertical relationships not shown in plan views such as floor to floor heights and openings in the floor and roof planes
- Information beyond the section cut shows as an interior elevation
- Now, back to the bell pepper...



SECTION VIEW OF A BELL PEPPER

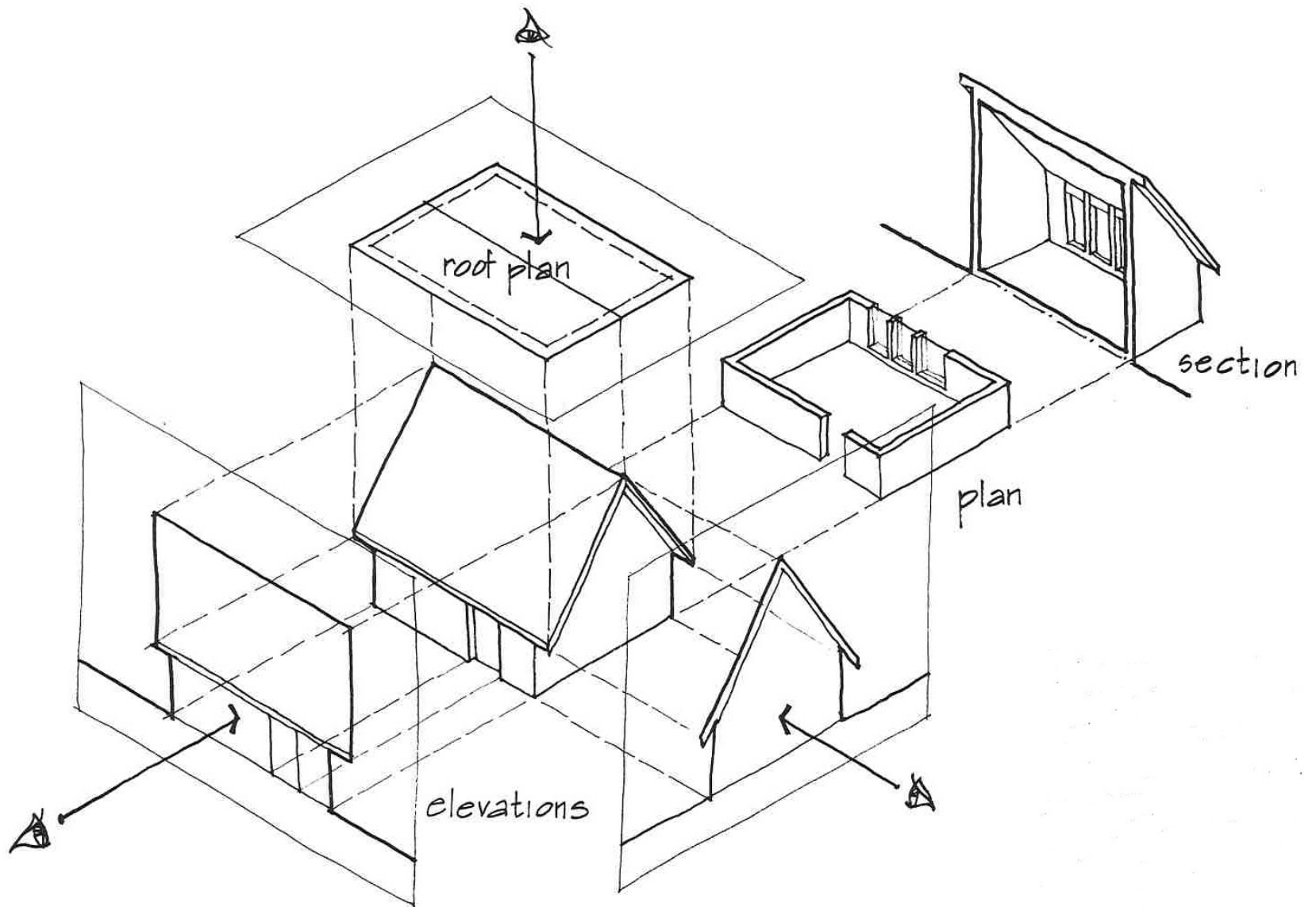
Elevation Views

- A vertical view of the exterior, projected onto a picture plane
- Buildings and space are not perceived the way an elevation is drawn
- Elevations express building heights, roof slopes, door and window configurations and exterior materials
- OK, last time to talk about the pepper...

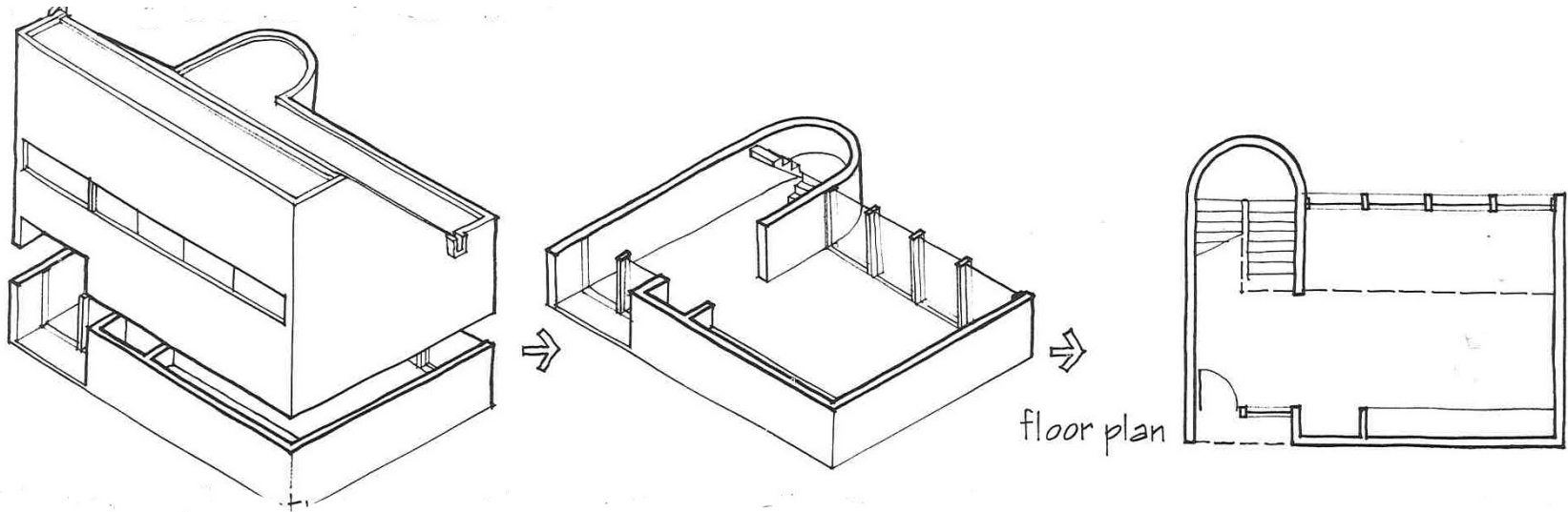


VIEWS OF A BELL PEPPER

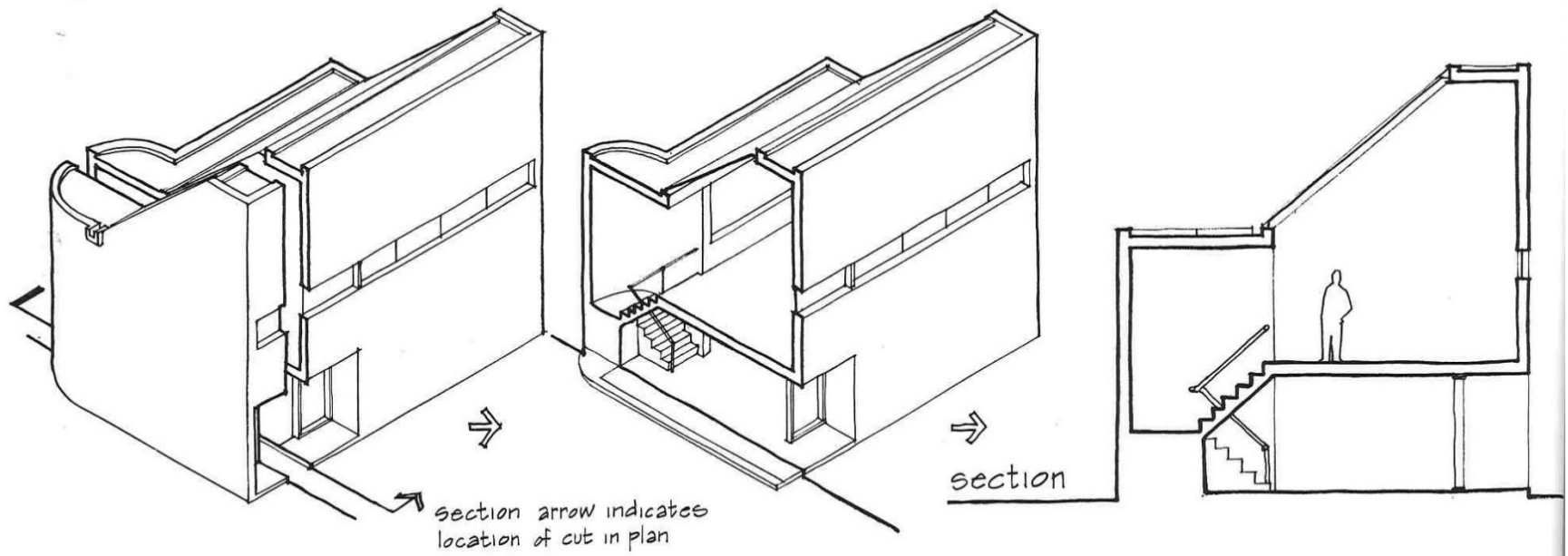
Plan, Section & Elevation in Buildings



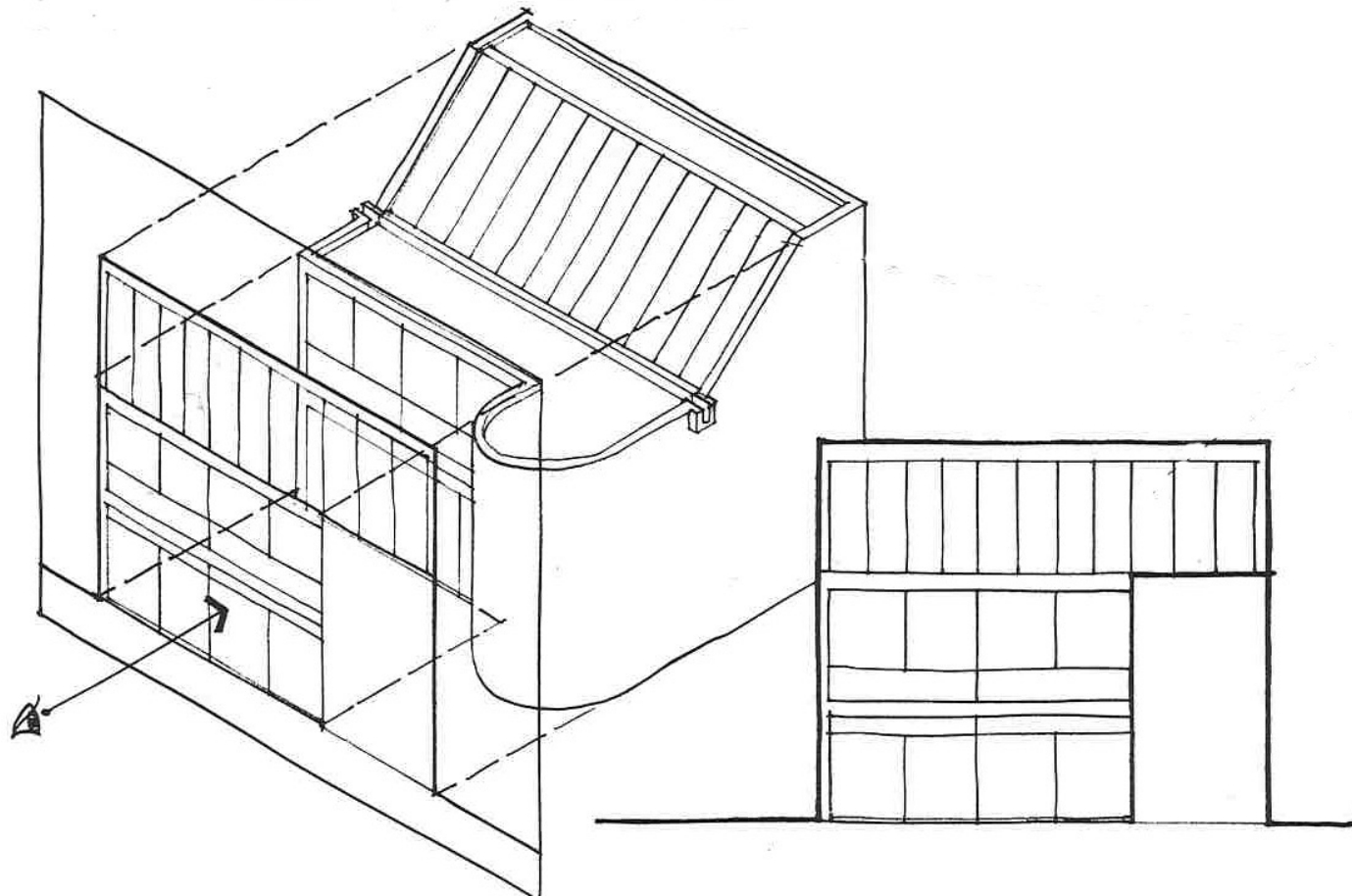
ORTHOGRAPHIC VIEWS



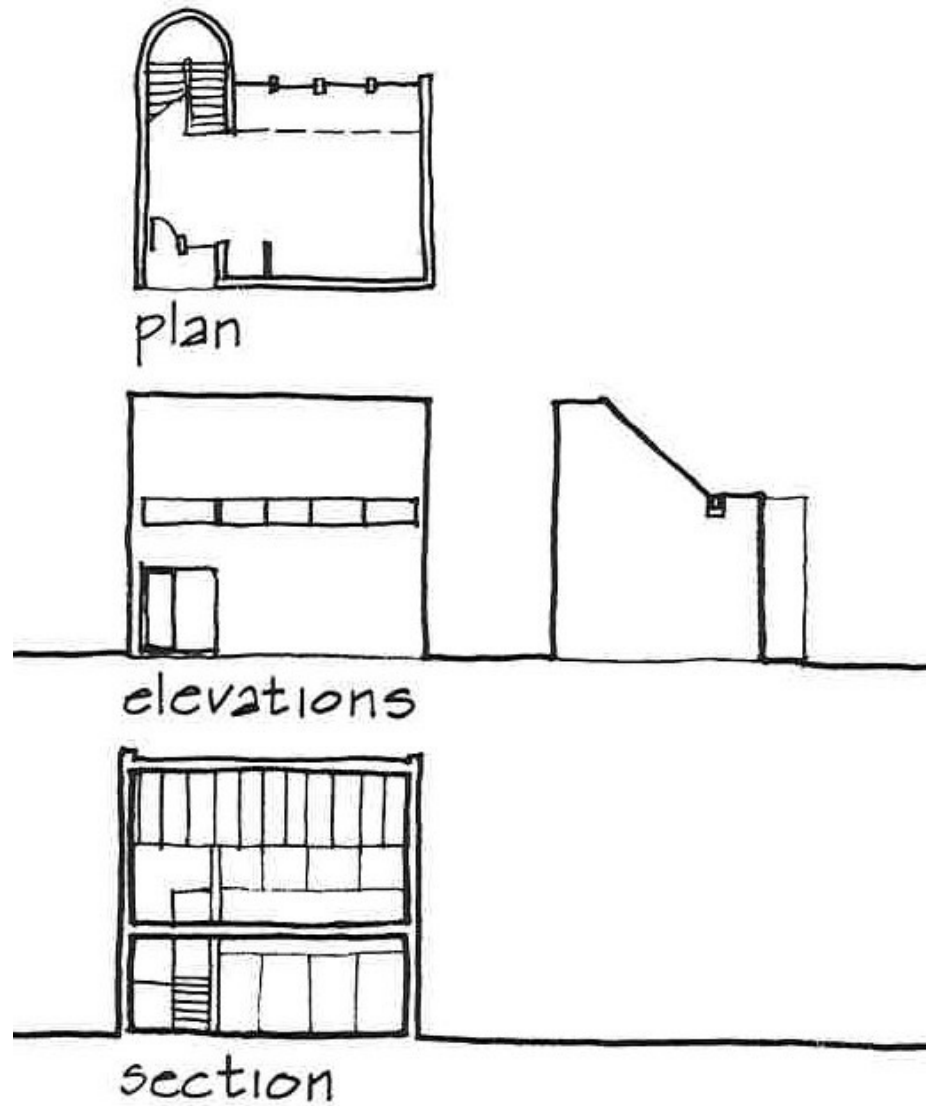
FLOOR PLAN (HORIZONTAL SECTION)



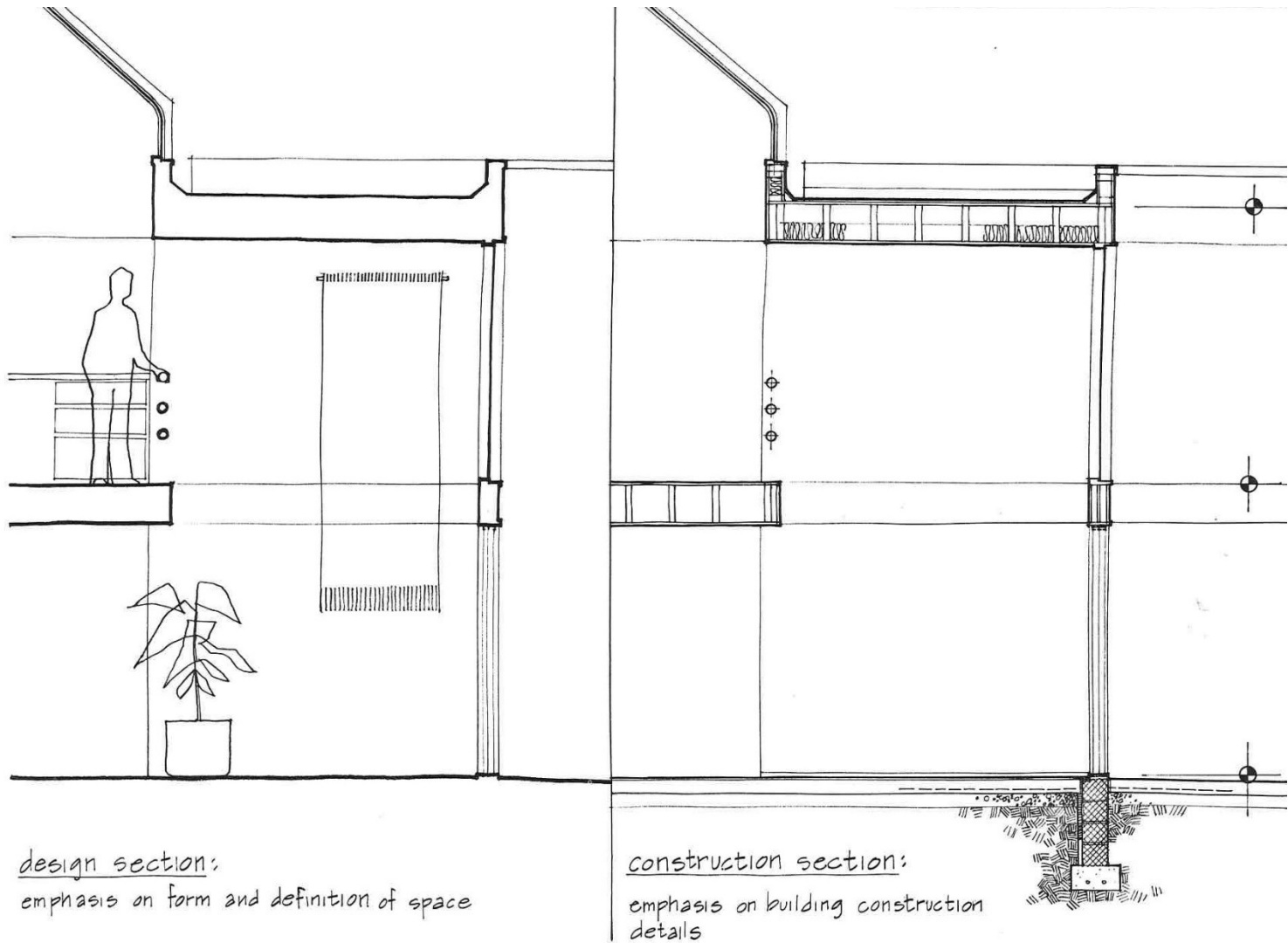
SECTION (VERTICAL SECTION)



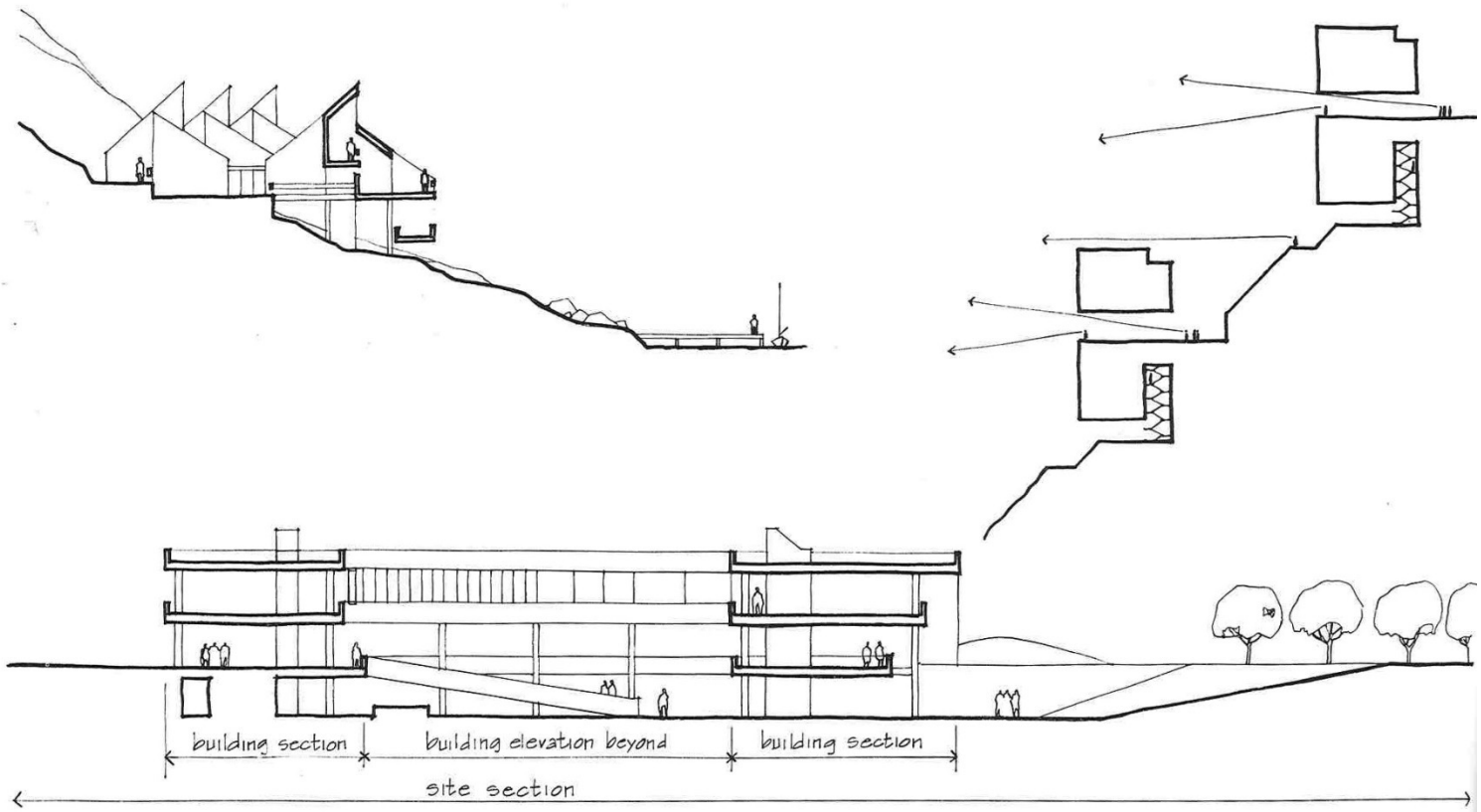
ELEVATION



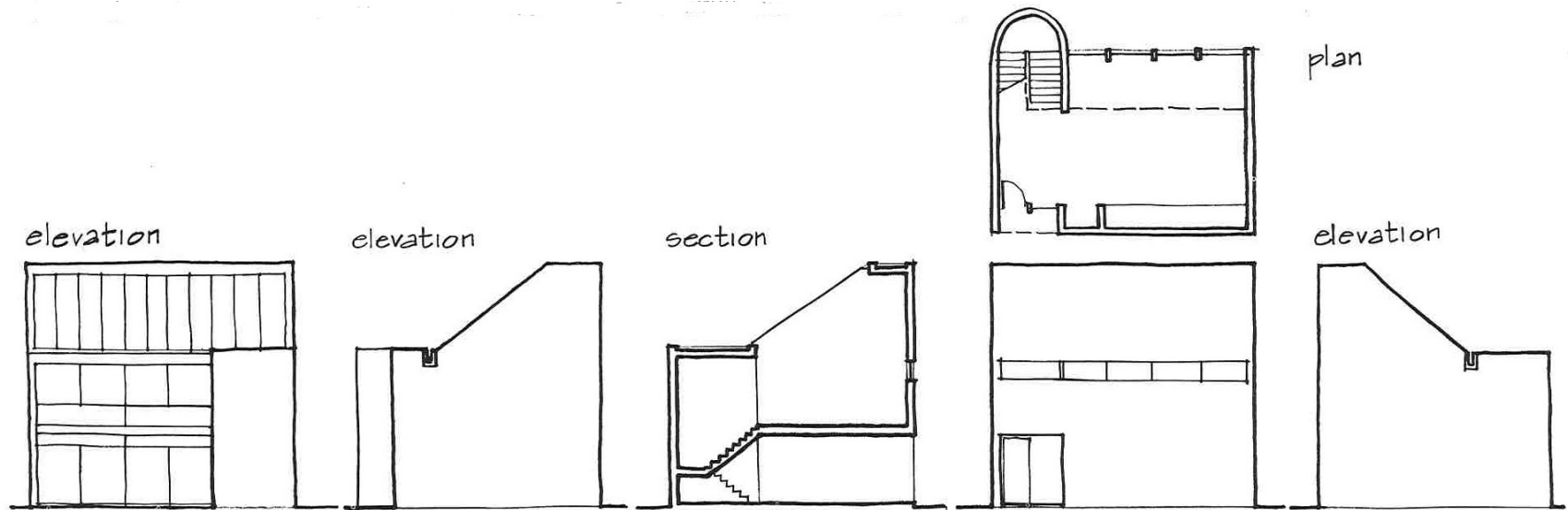
ORTHOGRAPHIC VIEWS



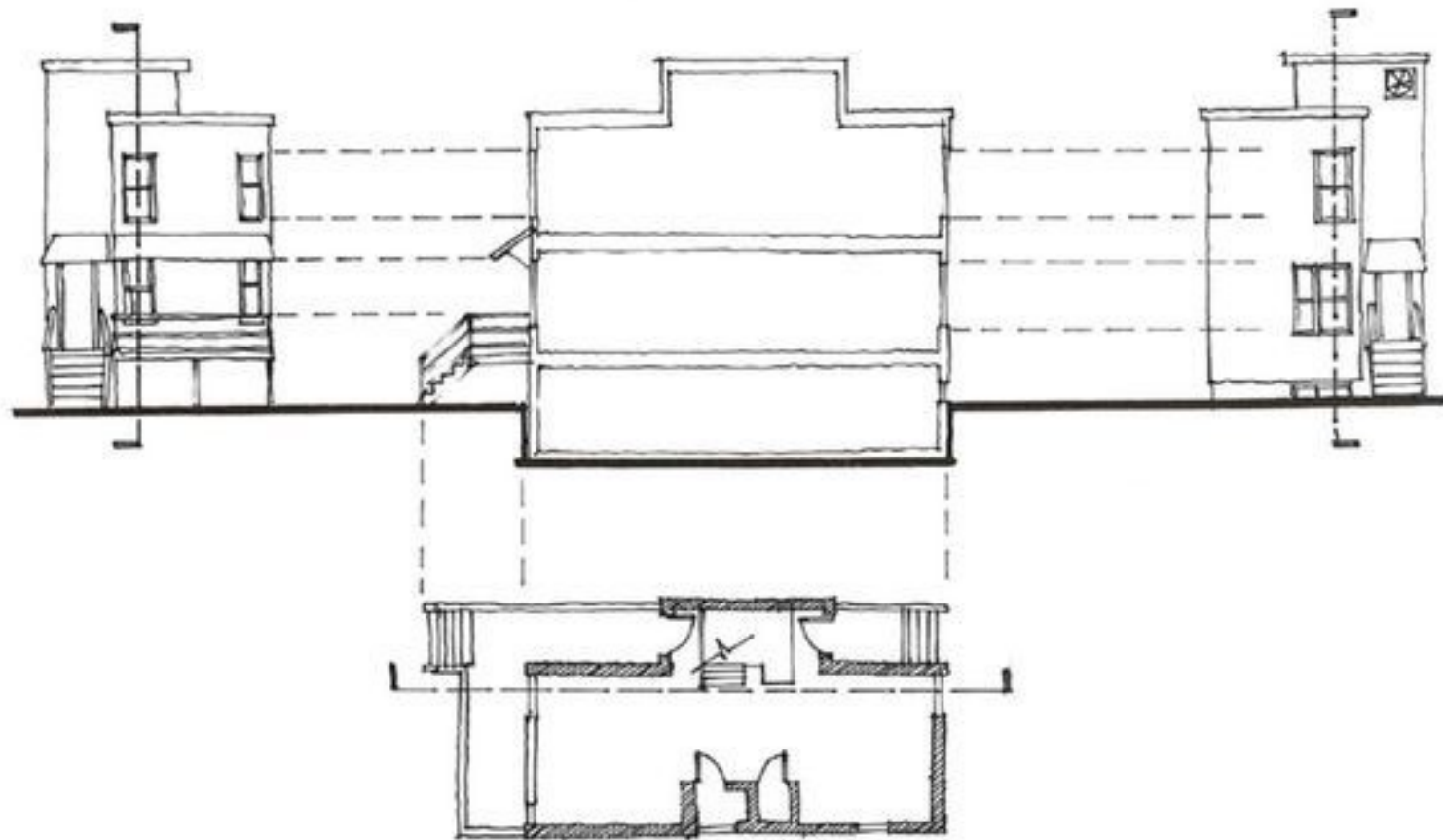
DESIGN SECTION v. CONSTRUCTION SECTION



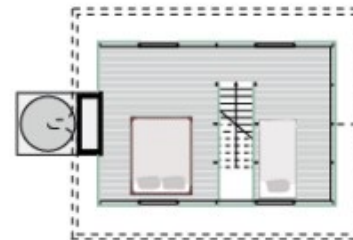
SITE SECTION



PLAN, SECTION & ELEVATION RELATE TO EACH OTHER



PLAN - SECTION - ELEVATION



PLAN - SECTION - ELEVATION

Drawing Demonstration

- How to draw a “plan” view (floor plan)
- How to draw a “section” view
- How to draw a perspective sketch from a photograph
- Using sketch paper and the overlay refinement technique

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