Flexible Housing Components

Focusing on flexibility to create a user defined space

Over the past several years the housing industry in the United States has suffered through one of the worst economic recessions in US history. Housing sales and new home construction is down; 50% of mortgaged households are effectively underwater; and foreclosure rates continue to climb. Now economists predict that the housing industry will eventually recover, however, I believe that in the wake of this housing crisis lies an opportunity to rethink and redesign housing for the average citizen.

My approach to this problem is spatial flexibility. My goal is to generate a system that focuses on flexibility in order to create space that is defined by the user. By letting the user define how the space within the home will be used will lead to a more attractive and effective housing model.

I began by consolidating all the "Hard Space" (space that is fixed due to plumbing systems, mechanical systems, etc.) into a single entity, which would then open up the rest of the area for the "Soft Space" (spatial functions that don't require hard elements to operate).

Soft Space

Space generated by the relationship between the Hard Space and the opaque panels.

Opaque Panels

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Program

Hard Space

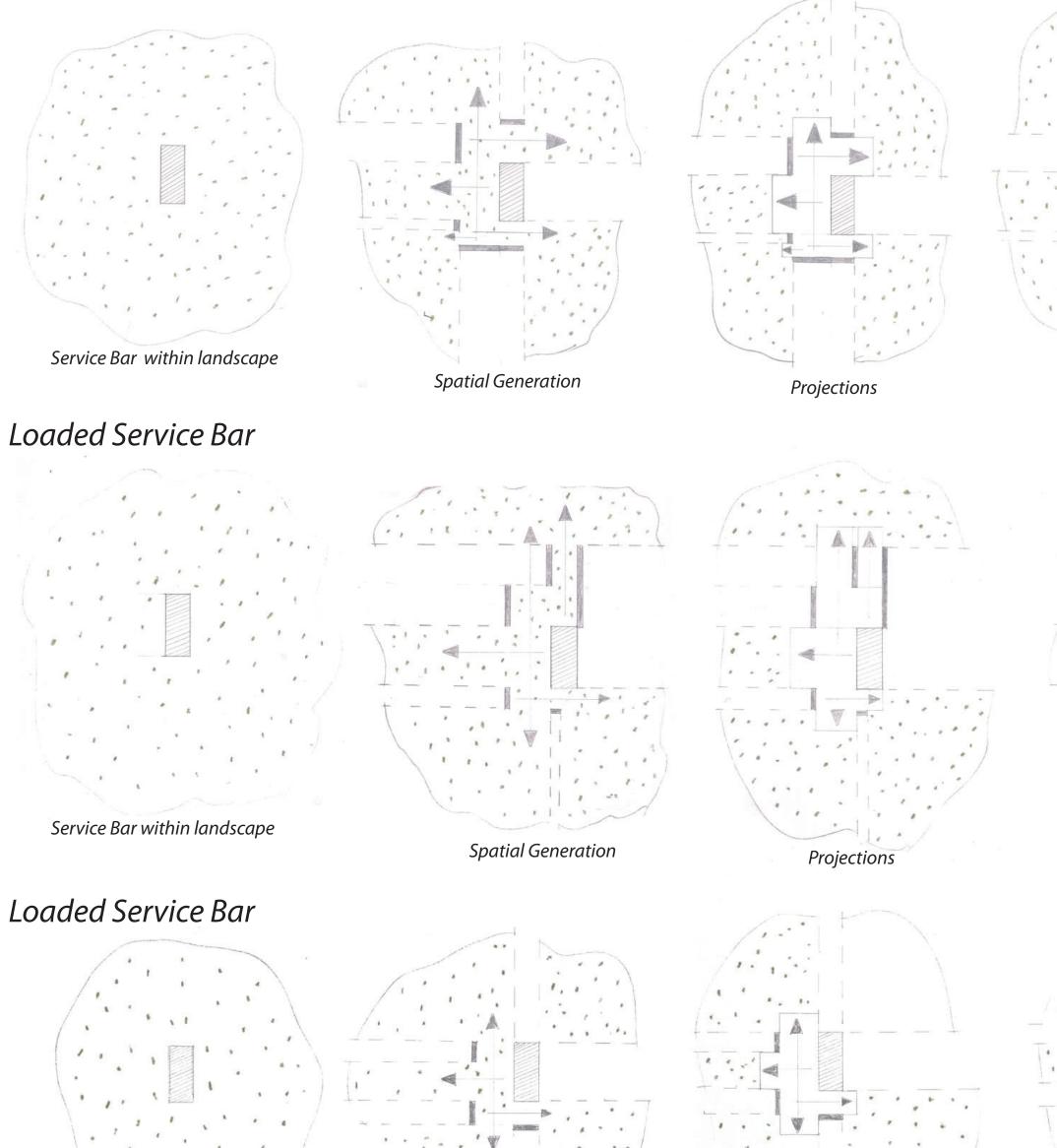
Bathrooms Kitchen **Building Systems** Vertical Circulation

Soft Space

Dining Area Living Area Sleeping Area Study Area



Loaded Service Bar



Service Bar within landscape

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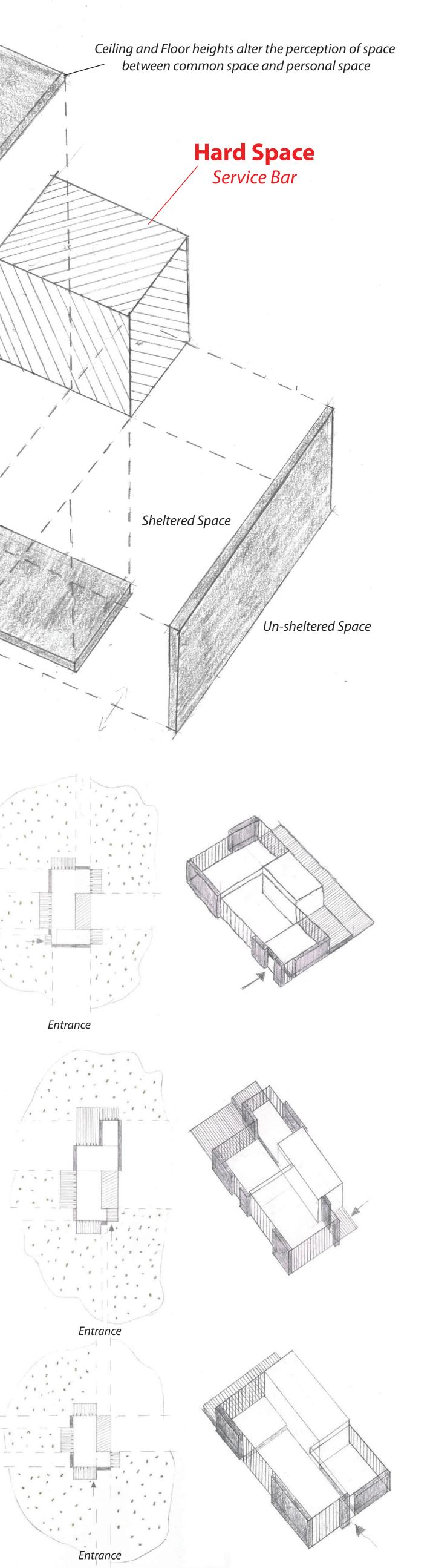
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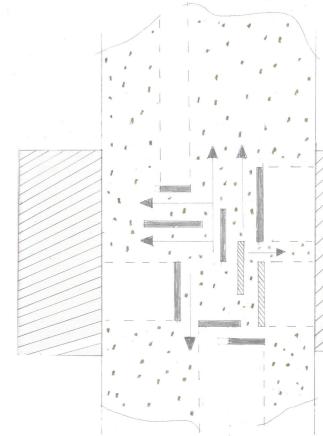
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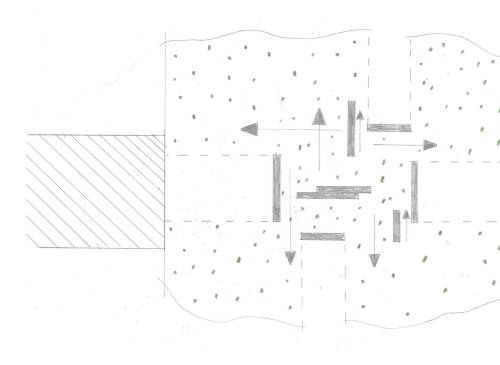
Possible Site Conditions

Perpendicular Site Condition

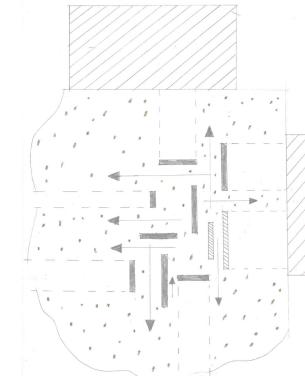




Horizontal Site Condition



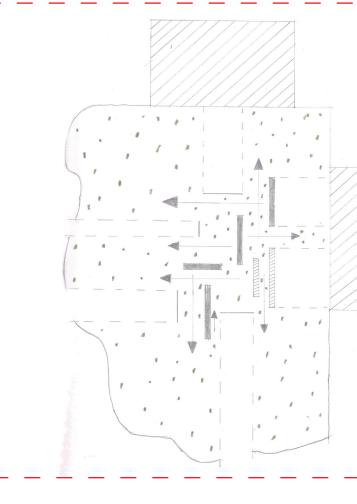
Corner Site Condition

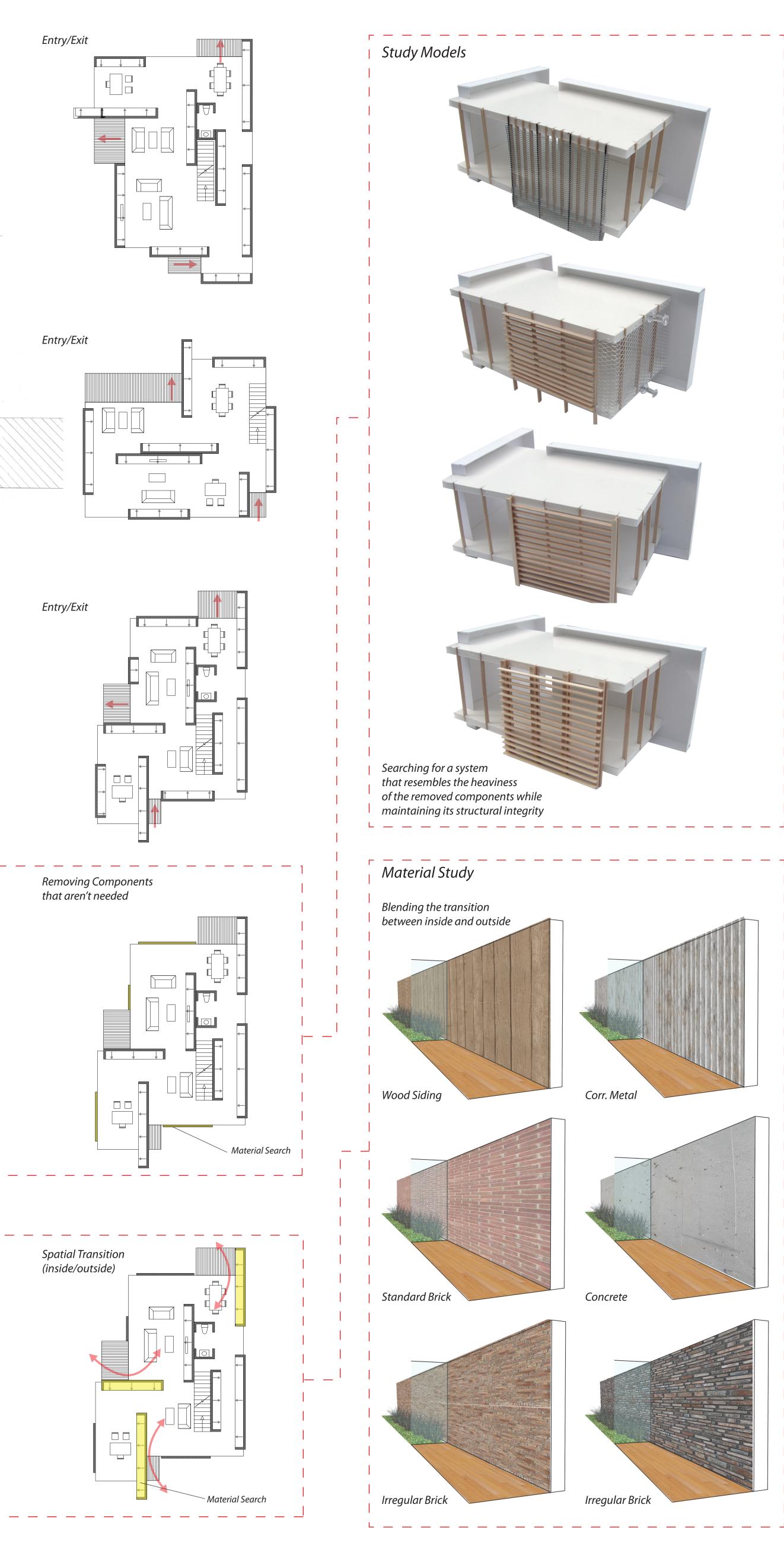


Corner Site Condition



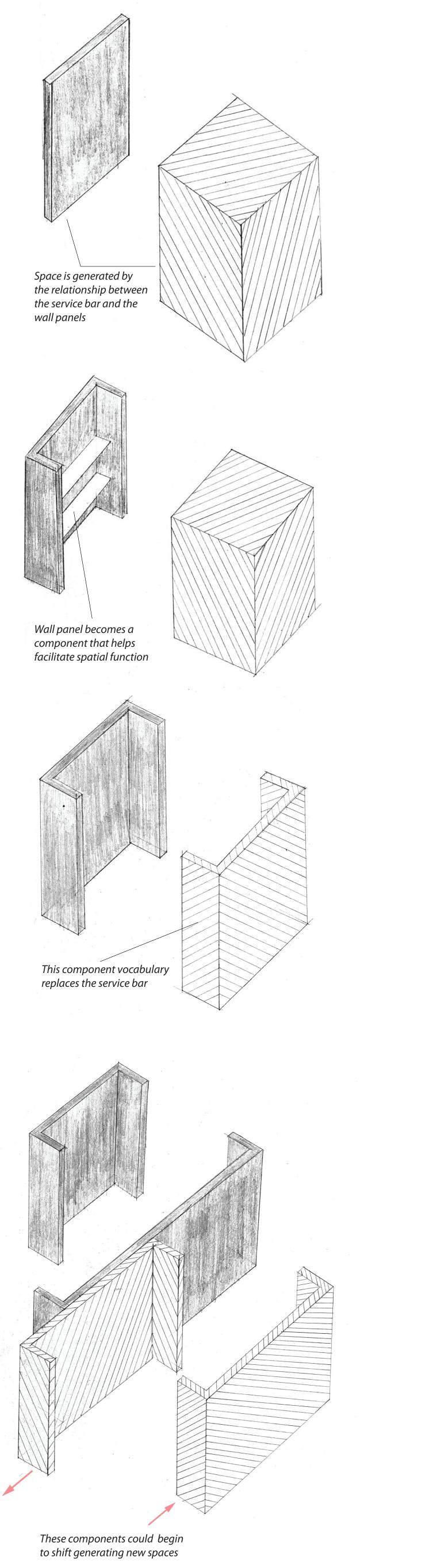
Corner Site Condition

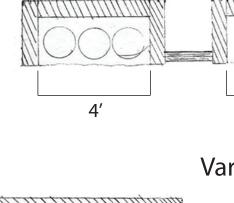


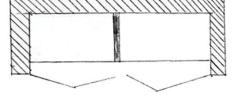


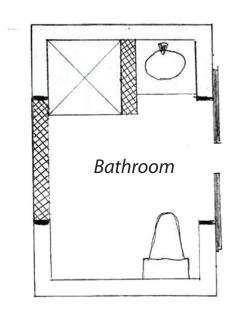


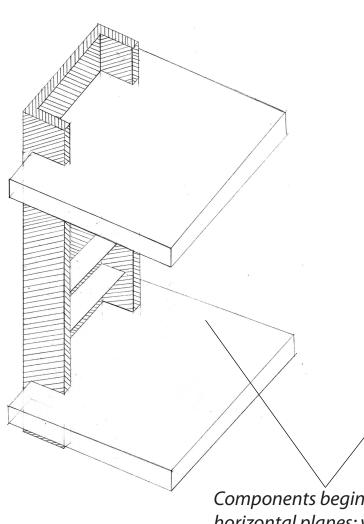
Vocabulary







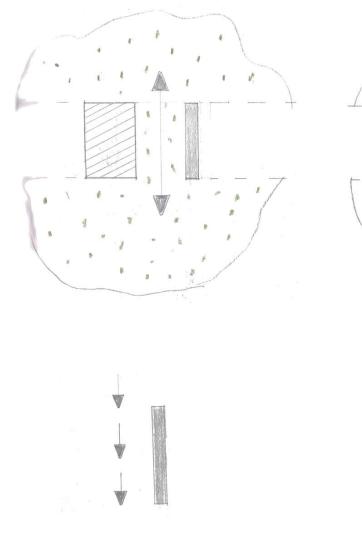




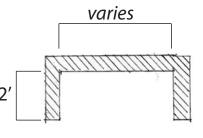
Components begin to hold the horizontal planes; varying the heights and altering the perception of space.

Spatial Exercise

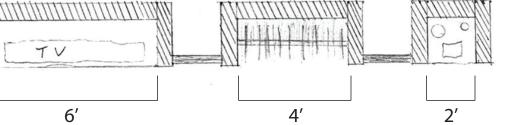
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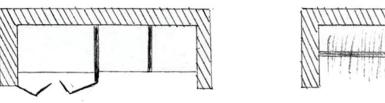
Flexible Housing Component



Spatial Functions

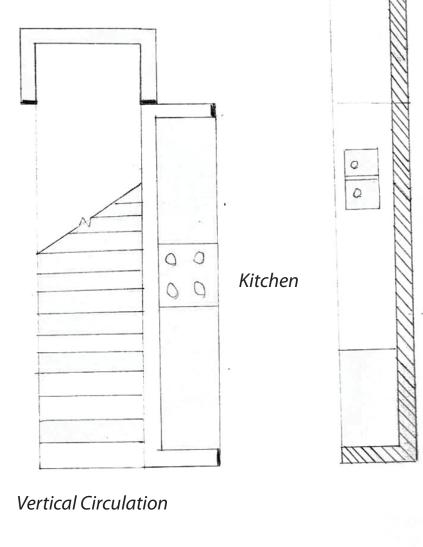


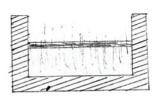
Varying Functions Defined By Users

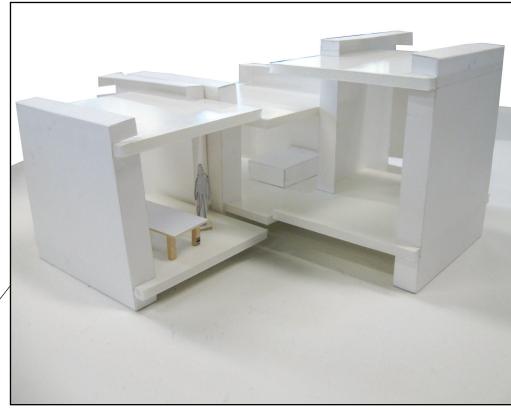


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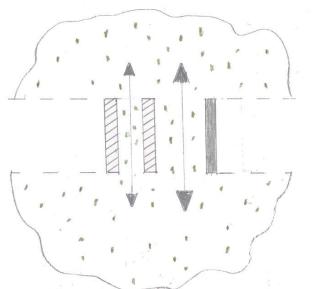
Service Components



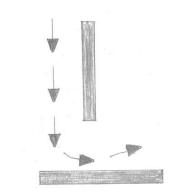




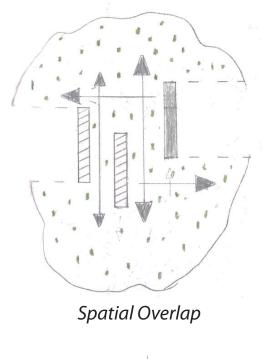
Study Model

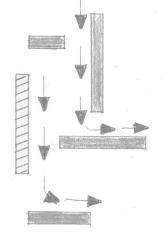


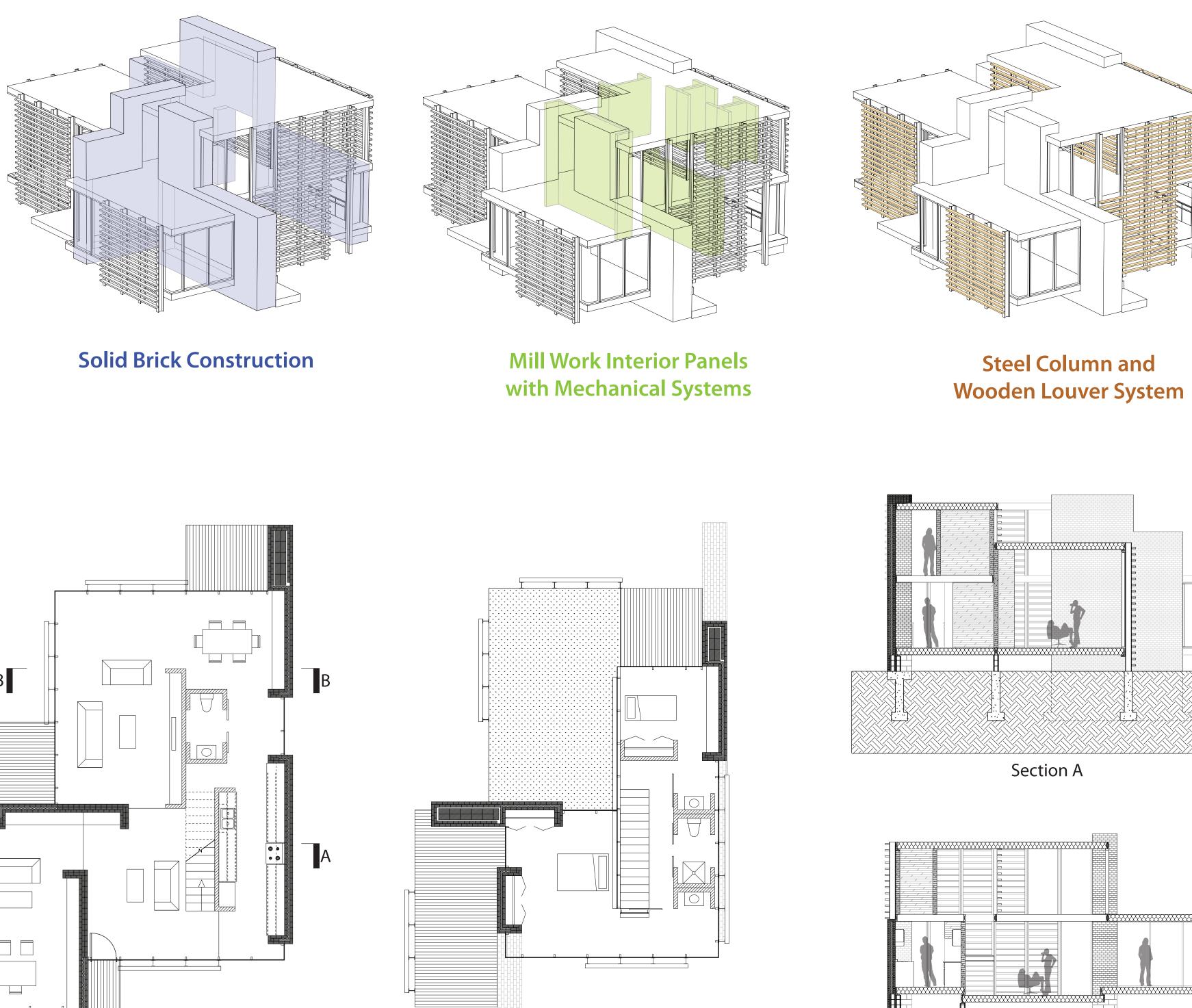
Component vocabulary applied to service bar

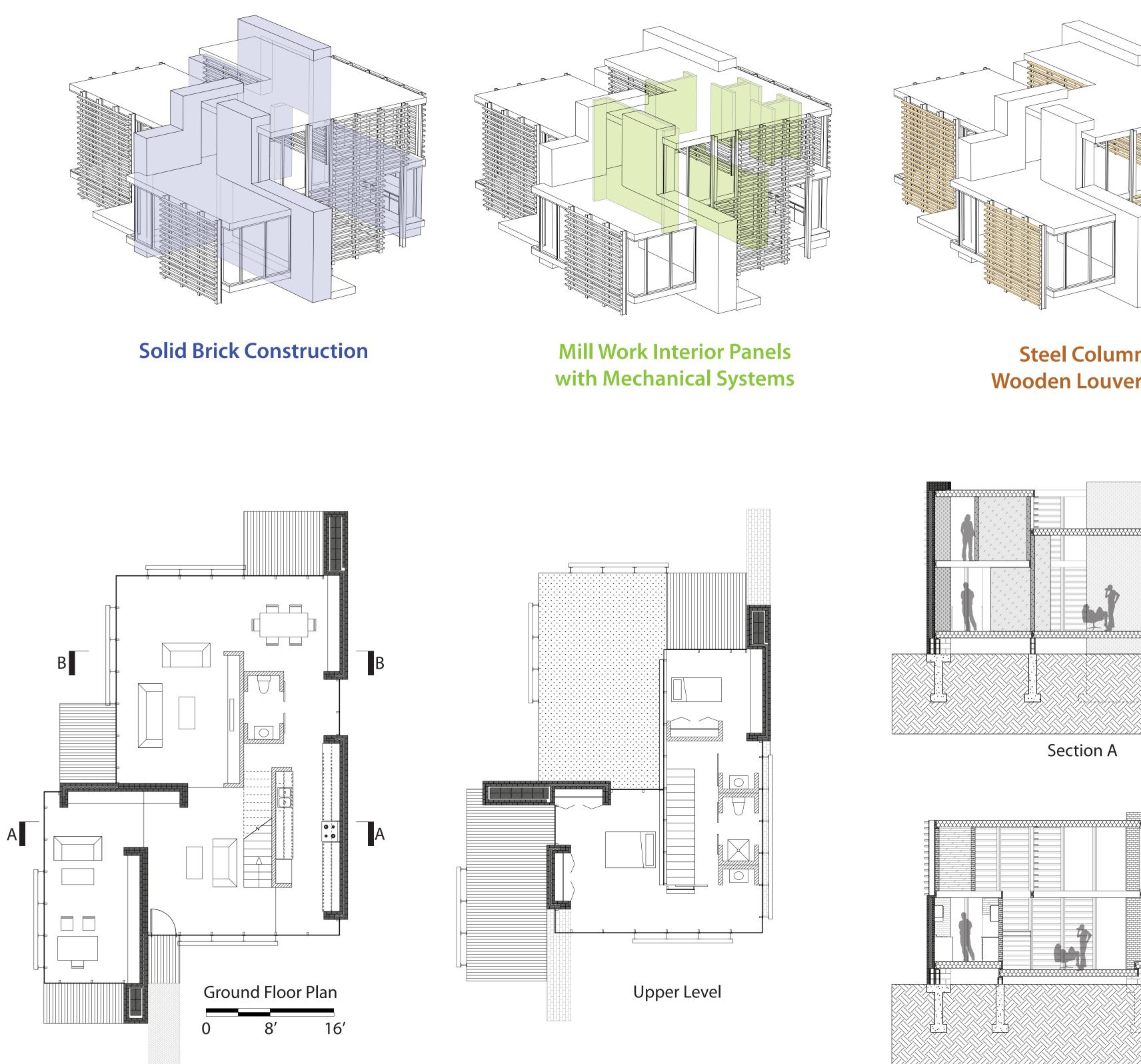


Components influence on circulation







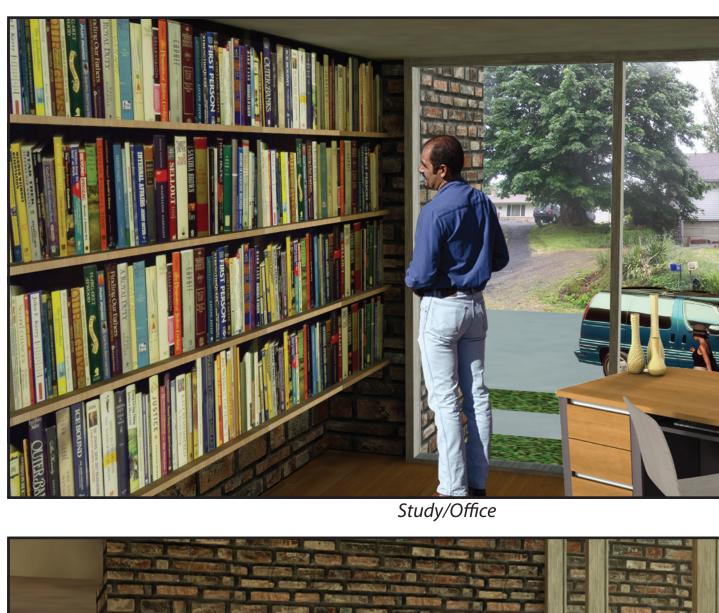


Corner Site Condition



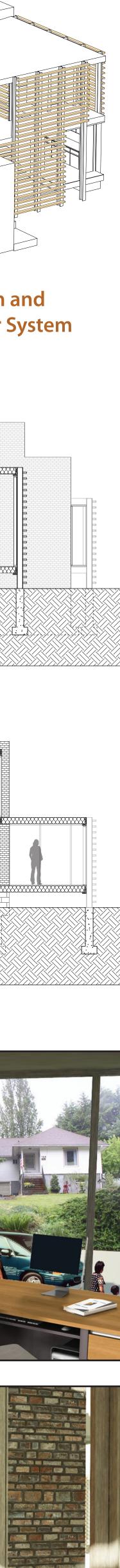








Living



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