A Building System for Active Settlement
Development of Live-work Dwellings in Central Square, Cambridge

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Physical manifestations of life are plastic and when they fail to suit the requirements of time and place they may be manipulated and changed by man. But that which is intangible is beyond the power of man, existing as a permanent reservoir from which the potential of life may be drawn as the need arises.

—Amos Ih Tiao Chang
The Tao of Architecture
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Abstract
Advances in technology, such as more powerful affordable computers and
flexible communication, along with social and economical changes have led to the decen-
tralization of the workplace and have made it possible for, and in some cases have forced,
more professionals to work at home.

With greater and varied demands on the home, people will require more control
over their environments to accommodate multiple uses, including those of professional work.
A dwelling for living and working, therefore, must be adaptable. Architecturally this sug-
uggests a building that may support a range of programs and ownership.

A means of achieving this is to provide a framework in which physical issues of
structure, the delivery of services, along with architectural issues of circulation, transi-
tion, and context are addressed. My investigation is inspired by urban housing types that
have proven adaptable in use and ownership, while maintaining a clear identity, such as
the row houses of Boston’s Back Bay and the small number of nineteenth century dwell-
ing types used in Cambridge, and most American cities. Because of their density and clear
diagrams, these urban dwellings may be easily subdivided or combined to support many
uses without dramatic alteration. The use of simple available systems allow these dwell-
ings to mediate between built and assembled elements. The built elements represent the
framework or more fixed elements of construction, while the assemblies are those ele-
ments that can be altered with relative ease in the interest of renewal or adaptation for
future uses, including live-work dwellings.

Thesis Supervisor: Imre Halasz, Professor Emeritus
Dedicated to the memory of Kent Keegan, who I knew for too short a time, he was my teacher and will always guide me.

Also to Imre Halasz, who had absolute and unwavering confidence in my ability when I hadn't enough myself.

To my parents Steven and Cynthia Rissling, who I owe my life and probably about $150,000. in food, clothing and shelter, but above all, my eternal love.

To my 'other' parents, Uncle John and Auntie Marlene, your love is the greatest.

To my Grandmother, the late Julia Drag, who once said to me, "Jimmy, go". Thanks Grandma, I am still going.

And to Biss, aka S.B., I appreciate your support and selfless patience.
Every properly functioning human being transforms the visual signals that he receives from the outside into structured, meaningful entities. Without the perceptual ordering of his sense responses into images of things in space, man cannot orient himself. Without shaping his physical environment in accordance with these images, he cannot survive. His capacity to structure his environment according to his needs—that is, his ability to work out a rapport with his world—determines the quality of his life.

—Gyorgy Kepes

INTRODUCTION of Education of Vision
At the onset of this project I had certain ideas and expectations as to what I was exploring. Motivated by my interests in urban settlement and history, I knew I wanted to work within an urban fabric. An idea intrigued me; more and more we see in the news, in academic studies, as well as in practice, people are using their homes for work, education and worship. The thought that comes to mind is how could homes that have been, or are currently being built currently, support any other but a mythological residential use. Most contemporary homes provide the minimal spatial requirements with little or no slack and do not allow for flexibility of uses.

The trend appears to be that many jobs that were done “in house” for larger businesses are being farmed out to small contractors or firms in favor of cutting staff and overhead. Often these firms exist only as mailing addresses and phone numbers run by a sole proprietor much like the Wizard of Oz. Improvements in communication, not only of voice, but of electronic information and printed word, as well as affordable computers and software make this possible. These jobs include designers, consultants of various fields, software developers, artists and craftspeople, accountants, editors and writers, and some medical practices, as a partial list.

At the onset I thought the concentration would be on the configuration of the units; a look at the social and cultural ramifications of these uses combined into shared spaces. However I found myself in the position, not as environmental psychologist, but as someone thinking of how it would be possible to provide buildings as systems that could provide opportunities for change yet would be cohesive and respectful to their neighbors.

The search here was for a structure and form generating system that could satisfy the demands placed on the home and workplace as examined by Ahrenzten. This suggested a “framework” that mediates between the largest system and its smallest outlets on one side and the largest system of small components on the other, or a vocabulary of elements, or protocol quite similar to a type, that within the “framework” exist the means to change and vary the type within a suggested format.
The importance of one to control and manipulate aspects of his environment is an important basis of this thesis. Here I must define the term 'adaptable' as its to be understood in this work. Somewhere between all the freedom to do as we wish and that which limits us, is the ability to adapt what is around us allowing us to feel as though we're free. This is not a noble or lofty freedom but rather the ability to tailor a given environment, of any scale, to our specific needs. Many others have examined these needs and others will, hopefully add to this body of information. But this thesis is an attempt to merge physical and sometimes intellectual experiences into evidence of an idea. The idea of an underlying infrastructure that anchors dwellings to a place and time, translates systems into useful resources, and suggests form, yet invites intervention by others resulting in a recognizable yet adaptable form.

What is suggested is an intermediate level or framework which, as the deeds and deed restrictions of Bostons, Back Bay (circa 1857-1871), divided the larger urban fabric into "manageable" pieces in order to achieve the next magnitude in scale. In this project, a block long area is to be developed in the Riverside-Cambridgeport neighborhood of Cambridge to provide dwellings for living and working. Cambridge's development has occurred, quite unlike the Back Bay; it had been more rural and more suburban throughout its history, supporting primarily detached dwellings restricted primarily by the size of the lot. The result is an interesting suburb of single and double family dwellings, speculative decker type buildings of the 1890's, and midrise buildings of this century.

James Rissling, January 1996
History & Place

Cambridgeport
Site
Building Types
When a society or a civilization perishes, one condition may always be found. They forgot where they came from. They lost sight of what brought them along. The hard beginnings were forgotten and the struggles farther along. They became satisfied with themselves. Unity and common understanding there had been, enough to overcome rot and dissolution, enough to break through their obstacles. But mockers came. And deniers were heard. And vision and hope faded. And the custom of greeting became 'what's the use?' And men whose forefathers would go anywhere, holding nothing impossible in the genius of man, joined the mockers and deniers. They forgot where they came from. They lost sight of what brought them along.

—Carl Sandburg
Cambridge was founded in 1630, at that time, the area of Cambridgeport was primarily agricultural. This area consisted of marshes, pine forests, and farms. The higher land was valuable as farm land and pastures while the low-lying marshes and river-beds yielded salt hay and oysters. It was an adjunct to Old Cambridge, where Harvard was founded, until 1793 when it was linked to Boston via the West Boston bridge. At this time it was hoped that Cambridgeport would become a new commercial area and port. Although it became a commercial link between Boston and the agricultural communities of western Middlesex county, it would not become a port. Cambridgeport experienced its most significant growth in the later half of the nineteenth century when industry would move in and a large amount of housing would be built to accommodate the rapidly growing population. The area of Cambridgeport was bound by island-like land masses rising from the marshes, the Neck, the site of present day East Cambridge, Pelham’s Island, about twenty acres across present day Main Street at Lafayette square, Captain’s Island, five acres at present day Magazine Beach, and Little Neck, about forty-five acres across Putnam Avenue. The low-lands between these islands would be filled from the late eighteenth century through the early twentieth century to what we now recognize as Cambridgeport. The land had been parceled into various sizes in 1630. The proprietors never intended to live on the land, but saw it rather as agricultural land and would remain in Old Cambridge. The early system of parcels was superseded by the mid-17th century when by this time Cambridgeport was divided into three large farms and much smaller landholdings concentrated at the intersections of present day Massachusetts Avenue and Prospect and Main Streets. The site used in this project was once at the edge of low-land that was on the Soden farm, sloping southward from Massachusetts Avenue. Below Kinnard street was a mill pond that would remain until the 1890’s when the area south of the site was developed with speculative housing in response to the increasing population of Cambridge.
Into the Site
From the outside.

The parts make the whole
And the whole is a part:
Movement relative to the larger,
Stability relative to the smaller,
Makes Form.

The boundaries enclose the form
And the form becomes boundary:
Seclusion towards the outside,
But openness towards the inside,
Makes Place.

The rules define the similarities
And the differences share the rules:
Sameness in time and space,
Without repetition
Makes Understanding

The site is space and material:
Form, Place and understanding
Make the Site

—John Habraken
PROLOGUE from
Transformations of the Site
The 41,000 sq. ft. site is presently a series of parking lots behind the Central Square branch post-office on Green Street. Green Street is a moderately busy one-way parallel to Massachusetts Avenue (figs. 10 & 11). The proximity to the post-office's loading area may present a potential noise problem affecting the design and organization of the site.

Central Square offers a variety of conditions, it is vital with a relatively densely built environment. Therefore, the option of endless expansion is not viable. The neighborhood offers many of the services desired for business and dwelling. The existing scale will be sympathetic to any possible building traffic. The context includes mid-19th to early twentieth century commercial buildings, large detached homes, with rowhouses and apartment buildings near Massachusetts Avenue.

**Site**
The site fronts Green Street to the north and Pleasant Street on the east, sloping gradually downward, to the west and south (fig. 11).
To the south the site abuts the rear lots of a few frame dwelling and a large mid-rise apartment building (figs 12, 13 & 16).
The Power of the Field

"Study the built field, it will be there without you, but you can contribute to it.

Study the field as a living organism, it has form but it has structure. Find its structure and form will come.

The field has continuity, merge with it and others will join you. Because the field has continuity no job is large or small, all you do is adding to the field.

Nobody builds alone. When you do something large leave the small to others. When you do something small enhance the large.

Respond to those before you. When you find structure inhabit it. When you find type play with it. When you find patterns seek to continue them.

Be hospitable to those after you. Give structure as well as form.

The more you seek to continue what was done by others already the more you will be recognized for it, the more others will continue what you did.

Cooperate. When you can borrow from others borrow and praise them, when you can steal from others steal and admit it freely. No matter what you do your work will be your own.

Avoid style, leave it to critics and historians. Choose method, it's what you share with your peers.

Forget self expression. It is a delusion. What ever you do will be recognized by others as your expression. Don't give it a thought.

Do what the field needs!"

—John Habraken
Cambridgeport, like most American cities, was laid out with rectangular lots deeper than wide, fronting onto straight streets. Unlike many American cities though, the layout of these streets was not necessarily planned but, but the result of the quickest path between two destinations. And along these paths to say Brighton, Harvard or Watertown the grid was filled in creating an intricate and seemingly haphazard settlement pattern. All housing types acknowledged this land pattern, from single houses to the triple-deckers of the late nineteenth century. Most of Cambridge’s housing is light-frame construction with masonary basements or foundations, some nineteenth century buildings attain a large scale even though they are executed entirely of wood. Many of the commercial and multifamily residences on or near Massachusetts Avenue are constructed of masonary, as are most multi-family residences built since the early twentieth century.

**Building Types**
Cambridgeport's housing consists of three types of one family houses as outlined in the *Survey of Architecture in Cambridge, Report Three*, on Cambridgeport; the single house, the double house, and the row house.

The single house or detached house intended for occupancy by one family, makes up the majority and was the most historically prominent. Three types of the single house are clearly identifiable until about 1880 (see fig. 20). The single plan A, in which four rooms are arranged about a center hall containing the stair, this plan type was not as common in Cambridgeport because of the narrow lots, however if there was enough room it was often situated with a narrow side fronting the street and its entrance on the side.

In the second single house plan, B, two rooms flank a center hall or stair hall. This type is most commonly situated on the site with a narrow side fronting the street.

**History & Place**
The third type, emerged circa 1840s, in this case two rooms are accessed through a side hall that is entered off the front of the house (see plan C, fig. 20).

The double house is similar to the single house but is intended for two separate families to occupy. This type differs from two family houses which are usually separated horizontally; the double houses are separated vertically so that the house and the land it sits on may be owned separately, further subdividing or combining two lots with the house division on the lot line (see again, fig. 20).

The third one family house type is the row house, this type an adaptation of the C plan single house (fig. 21) is less common in Cambridgeport because at the time of its popularity it was considered an urban housing form and Cambridgeport hardly exhibited the urban character it may be said to possess now. However examples do exist and compliment the density of Cambridge's commercial streets. Figure 22 shows an example at Pearl and Green Streets, just steps from busy Massachusetts Avenue. The row houses in Cambridgeport were generally built by one owner and were not usually owned separately as in the Back Bay, but rather by a single landlord who had assembled a few lots and built a group in numbers of 4-6 houses.

The next group of housing types are multi-family houses. These include, the tenament, the duplex and triple-decker types. The plans of these are less easily characterized as the one family types, but do share common organizations. The tenament is the result of further subdivision of the row house, whereas the row house is characterized by divisions of its units, the tenament is also divided horizontally.

The duplex and the triple-deckers are basically one floor plan extruded two or three times, and sometimes four times, so that the units each occupy a full floor separated horizontally. These types generally sit on a piece of land that along with the building is owned by a single owner.

**Building Types**
We investigate the methods by which another has created his work, in order to set ourselves in motion. This approach should save us from regarding a work of art as something rigid, something fixed and unchanging. Exercises of this kind will guard us against creeping up to a finished product hoping to pick off what is most striking, and make off with it.

—Paul Klee
The Thinking Eye

fig. 23

Precedents & Approaches
Built as a solution to the housing demand of WWII in America, the Eames house incorporates materials and methods developed for nonresidential architecture that represented American ingenuity and craft. The Eames house and studio (figs 23-25) is an example of a framework and infill system assembled of off-the-shelf components. The use of off-the-shelf components suggests that the components are interchangable and allow for alterations and repair as necessary. The structure assembly rests on a foundation that defines the site and orients the building (fig. 24). The structure supports the the various panels, which vary in their levels of transparency and function. The panels may be selected to provide closure and openings as desired for the various uses supported in the house.

**Charles and Ray Eames**  
**House and Studio**  
Pasedena, California, 1945
Precedents & Approaches
Hertzberger's Diagoon Dwellings (figs 26-30) are embedded with clues that allow its residents to alter and transform the spaces into personalized territories. The transformations are executed with a palette of materials that are devices for enclosing the structural framework. Along with the structure, surfaces such as the rooftops become spaces which may be occupied and altered, to create a rich and varied fabric of dwellings that still conform to a few principles. These include unit sizes, zones of entry and various levels of privacy.

**Diagoon Dwellings**
Herman Hertzberger
fig. 31  design for 92-99 Beacon Street, March 18, 1848

fig. 32  Commonwealth Avenue and Dartmouth Street, 1877

Precedents & Approaches
The row houses of Boston’s back are probably at first thought an unlikely precedent. But like many early developments in this country, the row houses represent variations of a type that has been continually occupied, repaired and adapted to a variety of uses. This example could be the row houses of Philadelphia’s Society Hill, the Victorians of San Francisco, or the Sears and Roebuck mail order catalogue houses of many American cities.

The Back Bay row house clearly illustrates some of the ideas explored in this thesis of ‘built’ and ‘assembled’ elements. The built elements, although they may be repaired, are fixed and generally are made up of bulk materials such as masonry and brick. The assembled units are those that are set into or adjacent to the built elements. These are generally linear or sheet in form and are repaired and replaced most often. Examples in the Back Bay row house, may be windows, doors, stairs, partitions, and floors, to some extent.

**Row houses**

of Boston’s Back Bay c.1840-1910
An Exploration

Concept
Site
Structure
Systems
Sections
Plans
Elevations
The Poet's eye, in a fine frenzy rolling,
Doth glance from heaven to earth,
from earth to heaven;
And as imagination bodies forth
The forms of things unknown, the poet's pen
Turns them to shapes, gives to airy nothing
A local habitation and a name.

—William Shakespeare
A Midsummer Night's Dream
The approach was to incorporate the ideas of a system based on a few elements with a set of constraints, and the constraints from some outside source. Together the exercises attempt to explore a concept of flexibility in three dimension within some structure.

In (figure 34) system was made up of 1:2 rectangles. The constraints were the base, which might represent the site or outside constraint, and the constraints applied to the use of rectangles based on the orthogonal properties of the rectangles.

In (figures 35 and 36) the system included, again, rectangles but also upright pieces or posts. The site was complicated by the three elements. These elements created a set of two dimensions in the site that suggested the placement of the upright elements.

**Concept**
An Exploration
This model, (figures 37-42), made up of blocks incorporate the major elements of the site and explores the potential massing made up of smaller units that represent dwelling sizes of approximately 1500-2000 sq. ft. The units were anchored by a zone at the street level that represents the entry or street facade. The placement of the units was further guided by party-wall elements that comprise fire safety and ownership zones (fig. 40). The street elevation includes paired vertical elements that respond to the rhythm of the existing facades (fig.s 41 & 42). Across the rear of the units a linear element indicates the overall dimension of the site and potentially shared functions, such as parking common yards or gardens (fig.s 37 & 40). Possibly in conflict with this idea are the more freely arranged units facing the garden side (fig. 39, center).
An Exploration
Figure 41 (right-top) view of site towards south, the Central Square post office is in the bottom right corner.

Figure 40 (left) view of site towards west, Pleasant Street at bottom.

Figure 42 (right-bottom) view at corner of Pleasant and Green Streets.

**Concept**
An Exploration
The organization of the site is to be in keeping with the land use patterns already in existence. The front yards act as a transition zone or buffer between the dwellings and the street. The rear yards are intended to be more private; these yards may be sectioned off to creating private outdoor spaces that include private parking off an access road or alley that can accommodate some temporary guest parking. This area is linked to the front yards by a pedestrian path that breaks the row of houses. Here one set moves further back from the street to relate to the residential nature of the existing housing and the other set remains closer to the street to support more commercial traffic. The path continues across the street and between the Post Office and Senior Center to link the development to the square and the services it offers.
An Exploration

fig. 46
An Exploration
The nature of the structure determines the level of adaptability possible. Each system suggests its own set of advantages and disadvantages. These studies attempted to give further form to the idea of a system that allows for flexibility in three dimensions; giving the user the ability to adjust the floor levels with each intervention.

In (figures 48-50) the stair-core, which represents services and circulation within the dwelling, begins to indicate various zones for rooms and circulation as well as various levels of privacy. The structural concept was a post and beam system with infill panels. The pairing of the stair, separated by the firewall, seemed redundant but could have allowed for passage laterally from fire zone to fire zone. The structure of post and beams would behave independently of the party walls. The pitfalls of this system include the potentially obtrusive placement of the columns and the large size of many of the members.
An Exploration
The system explored here (figures 51-53) was intended to work with commonplace building materials. The system a bearing wall system, incorporates conventional floor systems with concrete masonry units. The masonry wall is corbeled, these corbels occur at two different increments to provide a range of heights. The increments are driven by the 8” nominal size of the concrete units. So the corbels occur at 2’ and 4’ distances. The levels created would be served by a stair with three landings per story; two 4’ total rises and one 2’ total rise. It was intended that in the space created in the section of the wall by the corbeling services could be routed horizontally (fig. 51). These spaces could also be filled by stud construction to provide increased insulation or as desired. The appearance of the wall could be maintained to exhibit the systems potential to be changed.

Structure
An Exploration
The relationship of the size of the structural elements to the user is particularly important. Simply put, the larger the element the less likely it may be altered in any way. Unfortunately the larger elements can do more work with less frequency than the smaller elements given the similar task. This is the basis of these drawings (figures 54-56).

Two structural systems were considered other than the previously mentioned. Both are bearing wall systems, with different flooring systems (Fig.s 55 & 56). In (figure 55) a conventional woodframe or light gauge system is shown. A beam is required in either to span larger distances. The beam could fit into pockets in the wall provided at various levels. The primary problem of this flooring system is the distribution of services.

The other, (fig. 56) is an open web joist flooring system. The web joists accommodate services more readily but do present problems in size and when partitioning spaces.

**Structure**
fig. 57 Exploration

fig. 58

An Exploration
Together with the structure, the delivery of services such as HVAC, cabling, and water and sewer must be considered. A heat pump with auxiliary heating and ventilation is used. The air trunks and the other services are combined into a vertical stack with two horizontal runs that serve all levels.

Systems
The section was a very important tool in the organization of the spaces, here issues of structure, services, and circulation can be examined.

In the initial sketch to the left (figure 61), there is a change in grade from the front to the back of the unit. This is a possibility over most of the site. Also in the early sketch the levels are split allowing for communication between levels as well as a variety of floorplate sizes and ceiling heights. The section begins to imply two zones, upper and lower. The zones could imply different degrees of privacy or even a unit's potential to be divided vertically. In the drawing to the right (figure 62) constraints have been added to the elevation, a fixed roof line, established by the local code, and a regulating line at top of the first story.

An Exploration
In these drawings (figures 63-66) possible configurations of program and units are explored. A variety of layouts are possible within the framework of circulation, services, and set building envelope established for this exercise.

Sections
An Exploration
Sections

fig. 68

fig. 69
In the plans various schemes were tested against a criteria of circulation, which can support multiple units, the location of private functions and 'wet' functions, dependent on the service trunks, and a satisfactory number of different sizes for different types of working conditions.

Figure 72, at right, is a sketch of different entry configurations. The strategy at this point in the project was to have a minimal unit size of 500 sq. ft. so that a combination of these could yield a variety of dwelling sizes and ownership conditions. Together the units add up to 3500 sq. ft. a dwelling size that could hold two home offices and a number of bedrooms. As needed the dwelling could be subdivided into smaller units. At one point it seemed desirable to allow lateral movement into adjacent units, the party walls creating fire zones. Unfortunately this idea went undeveloped.

**Plans**
How the units related to each other was tested with a similar criteria to the unit plans themselves. The conditions created by pairing, mirroring and repeating the patterns of the plans were looked at in (figures 72-74). The various types of enterances had different affects on the site and relationship of the units.

In (figure 72) units are repeated with the same orientation. Admittedly a long stretch of this would create a monotonous condition, however it seems more sympathetic to the present settlement patterns of Cambridge residential neighborhoods. Also the nature of the front yards are more defined.
Mirrored and repeated units were explored in (figure 73). This relationship created ambiguous spaces outside the units whose ownership may be unclear, therefore creating undesirable conditions.

**Plans**

fig. 74
An Exploration
fig. 75

Plans
An Exploration
The elevations proved to be the most difficult, here what people do with the interior meets the street. It seems this is one area of the design, aside from the structure, that the architect's influence should be very strong. The constraints should include sizes appropriate to the context, elements that are easy to replace and modify within the desired framework.

Elevations
An Exploration
An Exploration
Elevations
Retrospection, though suspect of being the preoccupation of conservators, can also serve as an active agent. As an antidote for an elated sense of progress that seizes us from time to time, it shows our achievements in proper proportion and makes it possible to observe where we have advanced, where not, and where, perhaps, we have retrogressed. It thus can suggest new areas of experimentation.

—Anni Albers
On Design
How could one further this investigation or exploration is the question that comes to mind at the conclusion. This sentence echos in this author's mind as 'what I should've done.' Indeed, what I found I had done was to uncover more questions and fewer answers. The problem exploded from the seemingly simple organization of a dwelling type for someone choosing to work at home, into a larger examination of the role of an architect and an approach to design.

Standing somewhere rooted in the past, looking toward some future event marked by change and the expectant obsolescence of his design is the architect, revolving around him is a universe of the "intangible...existing as a permanent reservoir from which the potential of life may be drawn..." Here the struggle becomes the ability to see and recognize not only what is wrong, but what is inherently good, tested by time and place. Any failure of the built environment may be noted as a misalignment of values, caused by outside forces or an initially defective reading. Our cities and building are artifacts of our governing, social and economic systems; the imprint of our values and the way we visualize our lives is embodied in them.

In order to build we must visualize, but how can one individual visualize an enumerable variety of lives. That is why design should be approached, not as the search for a closed solution, but a solution that enables others to question and find suitable and satisfactory solutions. But we must build and therefore we must make some decisions as to how. If our solutions are open and invite some level of intervention by others, we can rely on those solutions to provide a satisfactory framework for our lives.

The architect can search for form that mediates between the structural and aesthetic concerns of a building, the restrictions imposed by law, time, and technology, that comprise its 'physical history' and that of the desires of its inhabitants. Within this form are levels or 'sites' of intervention where what the architect has left supports a range of element that can be changed. This can occur on various scales, representing various levels of control available to the inhabitant.
The task of an architectural thesis seems to be two-fold, that of a physical exploration and that of an idea supported by research and enriched by the thoughts and findings of others. During this thesis I tapped into an incredible universe of ideas and charting a small corner of that universe has been a large aspect of this thesis. The evidence of this is the bibliography, which was uncovered through a network of ideas by people choosing to think of architecture in non-finite terms but rather as an ongoing legacy of ‘physical history’ to be added to and studied.
Notes

All illustrations and photos by James Rissling (author) unless otherwise noted.

fig. 7  Ibid., p. 67.
fig. 8  Ibid., p. 58.
fig. 20  Ibid., p. 39.
fig. 21  Ibid., p. 40.
fig. 22  Ibid., p. 67.
fig. 23  James Steele, Eames House, Phaidon, p. 19
fig. 24  Ibid., p. 11.
fig. 25  Ibid., p. 11.
fig. 26  Herman Hertzberger, Lessons for Students in Architecture, Uitgeverij 010 Publishers, p. 158
fig. 27  Ibid., p. 159.
fig. 28  Ibid., p. 159.
fig. 29  Ibid., p. 159.
fig. 30  Ibid., p. 157.
fig. 31  Bunting, Houses of Boston’s Back Bay, Belknap Press, p. 55.
fig. 32  Ibid., p. 36.
fig. 87  Franz Maserel, The City, Schocken Press.

Perhaps too specific but this is the book with which I became interested in the topic of rethinking the environment in which we build and live in terms of organizing space to reflect social consciousness. Contained within this detailed account of Charlotte Perkins Gilman’s life is an invaluable view into the history of housing reform.


Abstract by author:
This report looks at a cross-section of professional homeworkers in various occupations, both self-employed and corporate-employed. It identifies patterns of divergent activities within the home, assesses the success or hindrance in accommodating multiple roles in the same place, and identifies facility requirements to support home working.


Chapter 4: 1840-1860 The Schism
Aspect: History of building, the formation of America’s urban and domestic models.
This chapter discusses the changes in the city and individual dwellings. Covering aspects of public and private aspects of our abodes. A historical overview of the forces that shaped the city including the integration of services into the home.


This was a natural follow-up to Allen's book on Gilman. This is a wider and more architecturally oriented view of domestic spaces and the policy of making homes. Hayden provides a great historic and philosophical overview of housing in America.


An article on how various cultures partition space with physical and conceptual boundaries.


Chapter 9 The Economic of Soul: Work, Money, Failure and Creativity
Aspect: Spirituality of home and work
This chapter discusses our connectedness to work on many levels. Discusses the importance of our perception of our work and home to our well being; this includes domestic and "outside work".

Examines the assimilation of mechanization and the use of the machine into Western cultures. Explores our perception of time and our partitioning of the day. Mumford takes the “Machine Age” back further in history and discusses the mechanization and ordering principles applied to our societies and own thinking. One product being the workday and workplace outside the home.

Rapaport, Amos, House Form and Culture, ...

I have to include this book because the library claims I’ve lost it and must pay a replacement fine. Seriously, it discusses the complex relationship between people and the dwellings they make and how they use them.


This small book reminds me that there exists an inverse way to seeing, a valuable skill for an architect to develop. Also Important food for thought when designing something as multi-faceted.


This article examines how Americans let others see their homes, from the Victorian farmhouse and its formal parlor and trappings to hide farm toil, to the contemporary suburban house and the initiation of friends and family into the house through kitchens and domestic service spaces.
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Eastern's magnificent new Turbo Compound powered SUPER-C CONSTELLATION over Miami Beach, Florida.