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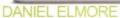
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"THIS WILL KILL THAT"
BUILDING AGILITY

manoeuvring the inevitable transition between the present day library of paper books and digital library of the future...



SYRACUSE UNIVERSITY

CLASS OF 2010

THESIS

MAY 14,2010

BRUCE COLEMAN

ANDA FRENCH



DANIEL ELMORI THESI YRACUSE UNIVERSIT BRUCE COLEMAI ANDA FRENCI

DANIEL ELMORE
THESIS
SYRAGUSE UNIVERSIT
BRUCE COLEMAN



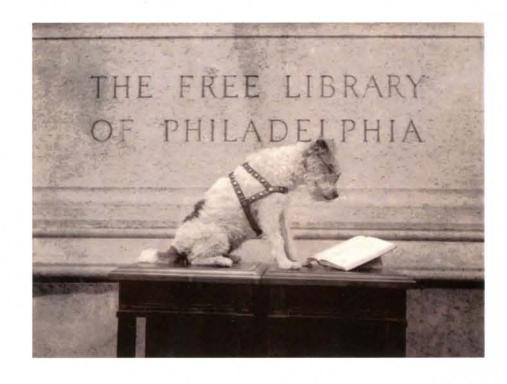


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Quote on cover by Victor Hugo





Designing Spaces for technological programs is inherently problematic as the rate of change of technology is hundreds of times quicker than in the adaptive ability of architecture. In effect, these spaces become less efficient and irrelevant with time.

Designing architecture around a current

technology becomes problematic when

said technology is updated. The space

is now outdated and inefficient. We can

create spaces that are flexible and cus-

tomizable without being nondescript.



EXAMPLE

of architecture designed around technology...

Through careful analysis of Movable and Fixed systems of architecture, I hope to show that a building can be produced who's relevance is no longer contingent upon ever-changing technology, but is able to evolve as needed. In the case of the Library, an intelligent combination of these systems will allows for flexible non-static spaces that anticipate continual change in technology; from paper-based books, to digital books and beyond.



USE RENDERED

Building Provides Mooring Masts for Zeps

DANGEROUS DUE TO HIGH WINDS, FUNCTION MADE IR-RELEVANT BY THE AIRPLANE

Major Questions

- 1. What are the advantages of flexible spaces?
- 2. What components of architecture are open, or movable? What components are fixed?
- 3. What factures incite buildings to undergo change or be changeable?

Fixed vs Changeable Open vs Closed



Closed System- Components designed to result in, or building designed to be compatible with, one configuration or limited range of configurations of systems/ spaces.



Open System- Components or Spaces designed to be assembled into multiple configurations. Interchangeable components, spaces allow for interchangeable building systems.







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What are the advantages of flexible spaces?

Variables of Architecture: Jenga vs. Tetris

When designing architecture, there are a several key factors that must be addressed. These factors include...

- +Building Occupancy- referring to both the number of people who occupy a building or space, as well as the type of people who occupy a building or space
- +Environment- referring to the surrounding climate or other varying site conditions
- +Program-the primary function of the building or space
- +Technology- referring to technology that composes the building (HVAC, structure, etc.) as well as technology linked to the program of the building (computers, projectors, etc.)

All buildings are designed and constructed around these four basic factors- factors being a person or thing that actively contributes to the production of a result. These factors are calculated and weighed by the architect to yield a final building. However, these factors, and particularly in the case of Technology, are in a constant state of flux. In fact, according to Joseph Carreiro and Steven Mensch, authors of *Build Blocks*- the search for a flexible prefabricated typology- today "we can be sure of the future in only one sense: it will not only be a future of change, but [of] an ever-increasing rate of change" (Carriero, 2). While architecture is often thought of as being the resultant combination of a series of set factors, we must begin to see these factors as variables, or conditions liable to change. In mathematics, every time the variables of a formula change, the outcome changes as well. Likewise in architecture, buildings should not be conceived of as final products, but should be as changeable and

non-static as the variables with which it has been composed.

When fixed (inflexible) spaces are constructed based on variables, theses spaces become outdated and eventually cease to be relevant. Metaphorically speaking, designing a building with fixed spaces is like designing a Jenga towers. Jenga is a game of physical and mental skill in which players create a tower of interlocking wooden blocks and take turns pulling out pieces of the tower and repositioning them at the top. Eventually, the tower grows taller and the structure of the tower becomes so compromised that it collapses. Similarly, when buildings are designed rigidly around a set of variables, a change in one of these variables has serious consequences on the the building's ability to function properly. Inflexible buildings may be functional at the beginning of their lifespans, but when forced to react to the changing nature of these variables, they eventually become irrelevant.

Metaphorically speaking, a better model for designing space is a Tetris Model. Like Jenga,

uilding Occupancy



Invironment



Program



Technology

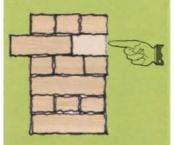






CICUDE 9

The Jenga model demonstrates inflexible spaces. They are composed of multiple factors, and are highly efficient at making one form and serving one function. However, when factors are changes or moved, the model has the possibility of toppling. When this type of building is faced with change, these buildings may become



The Tetris model demonstrates that flexible spaces are able to adapt to change. When a line of Tetris pieces disappears, the entire model readjusts itself to adapt to said change.

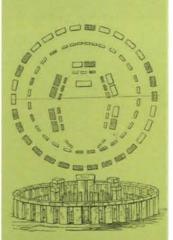


the object of the game is simply to last as long as possible. Players are given a never-ending stream of polygonal shapes which they are challenged to fit together in any way possible. When these shapes have been successfully stacked into a solid row, the row disappears and the player is awarded with more time and a higher score. When Jenga pieces are adjusted within the tower, the tower is unable to respond to that change and eventually becomes weaker, in Tetris however, when a row of blocks has been deleted, the entire structure will react by shifting down and readjust itself accordingly, hopefully aligning in the creation of a consecutive full row of pieces. Likewise in architecture, when the variables that comprise a building change, the building needs to be flexible enough to adjust to said change. By creating non-static spaces, we can insure that our buildings are "in the game" for the longest time possible.





"Unfortunately, we have yet learned to cope with the phenomenon of accelerating change." Obsolete automobiles can be towed off to a clunker graveyard or compacted into a bundle. of metal to be reprocessed into new industrial products, but obsolete buildings persist in standing intact to further technological progress. From the standpoint of a rapidly advancing industrial society, we have been building in too permanent a fashion. - Joseph Carreiro and Steven Mensch, Housing vs. Process, page 2



Origins of Permanence

The idea of Permanence within architecture is explained in the article *Petrifying memories: architecture and the construction* of identity by Hilden Heynen. In the article, the Heynen describes how monumental architecture establishes identity through permanence-the inability of the building to change over time.

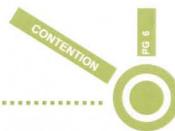
"...monuments [-that is monumental architecture-] contribute to people's sense of history and belonging. Newly built monuments corroborate the world's view of the dominant class, by carving in stone their interpretation of their historical and cultural identity. According to Donald Olsen, the nineteenth century had an extraordinary historic consciousness...This awareness is transformed into built form by turning major cities...into monumental works of art...thus leaving [an] imprint on the city that was to be inherited by the next generation."

-Petrifying Memories page 375

In this passage, Heynen shows us the origins of permanence within architecture. By constructing architecture out of stone, the architects of the past sought to immortalize the values and identity of the current culture, patron, or program. The idea of petrifying ones identity is easily demonstrated at Stone Hinge, a prehistoric monument located in the English county of Wiltshire(Bluffton, 1). Although the function of Stonehenge can only be speculated, it nevertheless acts to preserve the memory of a past culture. Another example can be found in Egypt where Pharos sought to immortalize their memory by constructing enormous pyramids to house their remains. The very shape of the Pyramid is believed to be drawn from Egyptian Cultural beliefs about death and mans relationship with God.

A more recent example of Memory or Identity being "petrified" through architecture can be seen in Casa Del Fascio. The

Casa Del Fascio, designed by Giuseppe Terragni and constructed in 1932-36, is a "landmark of modern European architecture. This building describes the creative spirit of Terragni within the context of the rationalist vocabulary." (Raeburn, 264). The Casa Del Fascio "petrifies"
the ideals of its builders, not literally through stone, but through the programmatic and formalistic relationships of its spaces. The building
is conceived of as a base of operations for the fascist party during the regime of Benito Mussolini. Its wartime agenda is represented in
plan where a band of open space is left open on the ground floor to facilitate lines of soldiers marching through the building. A large public
gathering space is provided in the front of the building where Benito Mussolini could address the citizens of Italy.





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Benito Mussolini could address the town's people.

Heynen goes on to tell us that even though buildings were once able to be used as monuments, today buildings change too quickly, and the lifespan of buildings are too short to hold memories.

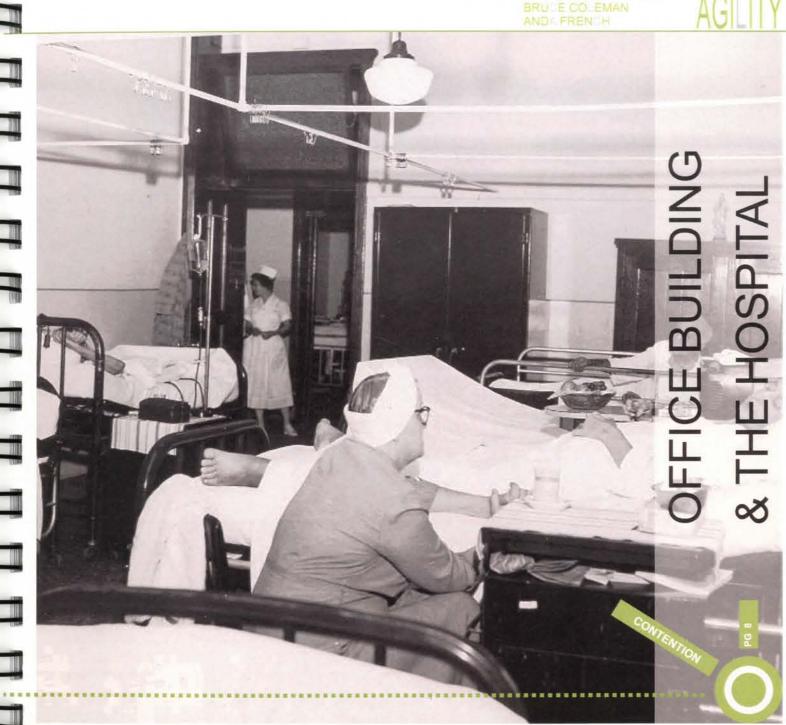
"The built environment is no longer the site of 'slowness', and therefore no longer the prime container of memory. Baudelaire already mourned the fact that 'the...shape of a city changes, alas, faster than the heart of a mortal'. Before the industrial revolution, people lived their lives in environments that changed only very slowly...Built environments of today are for the most part the result of very recent transformations. People now often live longer than buildings. The 'slowness' and 'memory' is now one's own body rather than one's house or one's town. The petrified memory [the building], once the major site of remembrance, now has its counterpart in individual archives...or [the] image archives of the media."

-Petrifying Memories page 376

In this paragraph we can see that indeed, buildings that continually change are unable to hold any true memory or identity.

However, Hayden would argue that in modern society it is no longer necessary for buildings to preserve memories and cultural identity, since technology has taken over this task for us. As far as the building's ability to formally represent its program, if the building is using a
Tetris Model of design, the form of the building will always reflect the variables that comprise it.





COMTENTION



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The Office Building & The Hospital

The article Flexible Spaces, Building Health-Care Occupancies by Alisa Wolf outlines the importance of having flexible spaces in the Health Care profession. The article uses the real life example of Chicago's Northwestern Memorial Hospital Addition. In the case of this building, the hospital had outgrown its old building, constructed in the late 1920's, when the nature of the medical field changed, the old building was simply unable to be adapted. The problem, explains Bud Vance, director of Facilities Management at NMH, "was that the old [buildings]... weren't functional anymore." He explains that the occupation variable-number of people using the building- played a large role in the need for an addition but that the central reason for the change was the programmatic variable- the functions that take place within the building. The way that medical buildings are used has changed since the construction of the original NMH building in the mid 20th century. The hospital as a building type has gone from being a primarily inpatient building to a primarily outpatient building. Vance points out that "10 years ago, two thirds of today's outpatient procedures were done in the hospital." Today as patients have begun to steer themselves through diagnostics, physical therapy, and rehabilitation, the need for space changed from a need for hospital beds to a need for lab spaces and waiting room spaces for loved ones and caretakers. The success of the Health Care Industry, points out Alisa Wolf, "is its ability to adapt to future changes in emerging technologies, shifts in demographics, new code requirements, and breaking trends in health—care research." (Wolf, 50)

In the article *The Workplace of the Future: Managing through Change*, by James T. Kohlhoff, we see the direct impact that the *technology variable* has played on the office building typology. In the 1990's the real-estate market saw a considerable drop in the demand for office space, due in large part to the increased utilization of technologies such as "faxes, mobile phones, and laptop computers [that give] employees greater flexibility in their work styles and locations." Kohlhoff points out that "the spatial and technological needs of tenants are shifting, and for property managers and building owners, remaining competitive requires a clear understanding of ability to adapt to those needs....flexibility is becoming the key to marketability." (Kohlhoff, 30)The need for the real-estate world to be able to provide flexible spaces is made evident as well. When office spaces are not flexible enough to accommodate changes in work teams and equipment, the company suffers a loss of productivity, translating in a loss of tenants for building owners. We can clearly see that providing office spaces that can change with corporate and technological trends should be the architect's utmost concern when designing office buildings.









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What factures incite buildings











Why does it change

What Changes

What is Flexible

This was the original Architent's Intention











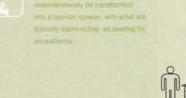


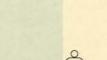












New York











Occupants now have the option of adjusting the privacy and shepp of interior spaces



Intend tipuces can expend to the outdoors. Indoors and outdoor spaces become blurred.





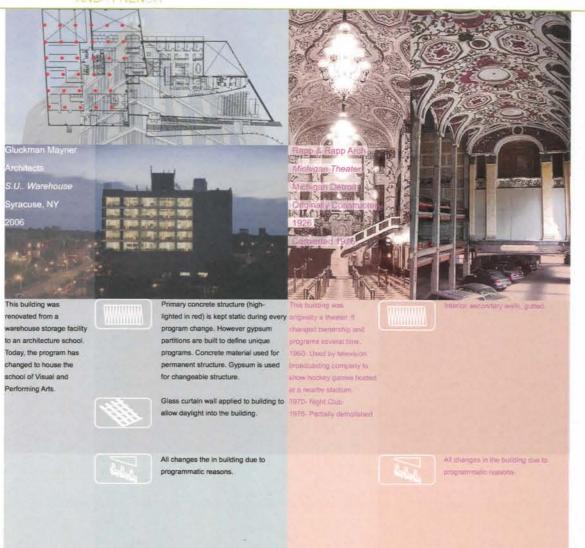


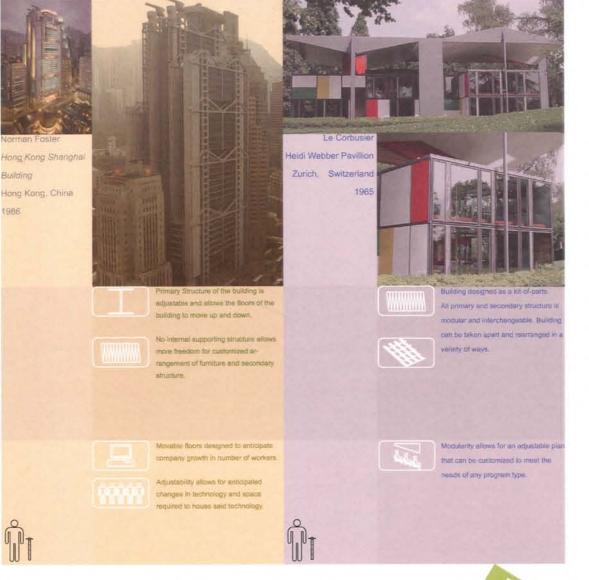


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...The following precedents demonstrate buildings that are not Flexible. Spaces that are not flexible usually offer benefits that include ease of construction and lowered construction cost. However, these benefits do not take into consideration variable changes. In effect, their lifespans are usually is limited...



This building is a glass building perched on the side of a fill. It is designed to be as modular as possible. The Tectorics of the building are such that all systems are as simple and unified as possible. Most notably, the HVAC system is embedded into a modular panel flooring system. White convenent for construction, this limits the abelty of the HVAC system to be updated without disrupting the floor and primary structural systems.





REGEDEN



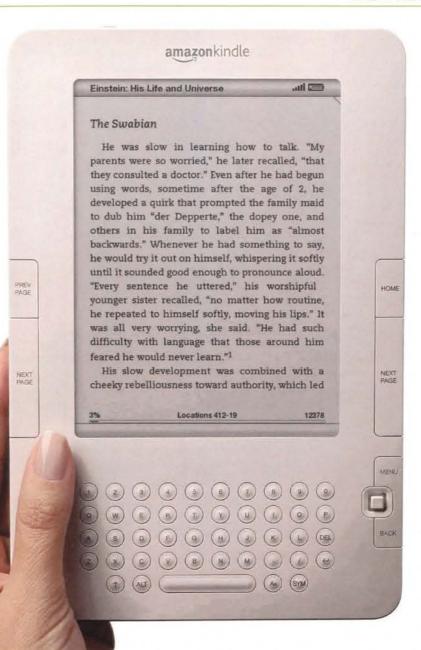


HVAC and primary structural systems on the outside of the building, By moving as many systems as possible to the outside, the building was able to achieve the clear floor plate needed for gallery exhibitions. Future adjustment or changes to the HVAC system, if possible, will be difficult due to the meticulous design of the HVAC and its interwoven relationship to the building's primary structure.

organization of space", the Frankfurt Kitchen was designed after World War II in response to a high level need for low income housing.

"With an overriding motivation to save time and money, the principles of rational organization, standardized building units, and mechanized construction were applied not only to the design of settlements themselves, but also to the design of the Frankfurt Kitchen, versions of which were installed in 10,000 integrated housing units within a fouryear period." -Minneapolis Institute of Art, page 1

Here we see any example of architecture designed not to adjustable. Adjustability for have made the kitchen more costly to build.







Library

The institution of Library reaches as far back as the Library of Cordoba in the 1000s. Representing the height of education during its time, the Library of Cordoba managed an unprecedented collection of knowledge in the form of clay tablets and papyrus roles. Since then, the library has undergone dramatic transformations in direct response to technological advancements. In the book Libraries and Electronics, Robert D. Stueart describes how the invention of ... movable type in 1456, challenged libraries to become purveyors of knowledge through the mass medium of written word in a print-on-paper formal". (Stueart, 93)In the midst of recurring technological revolutions over the course of time, the library has continually been forced to evolve, while sustaining its primary objective "to bring together human beings and recorded knowledge in as fruitful a relationship as is humanly possible" (Gapen, 1).

Today however, the Public Library is facing an unavoidable wave of technological advancement which threatens to end the very existence of the Library as a physical place, and displaces the Library as the center of academia. Multiple experts on the library agree that this technological onslaught will manifest itself in a guaranteed transition from paperbased texts to digital texts. In the book Future Libraries by Robert Bloch, Allain Giffard, a designer of computer assisted work stations, insists that "Libraries...are the scene of a major technological transformation...characterized precisely in terms of the 'electronic book', or virtual library..."(Bloch,3) Robert D. Stueart more clearly spells out the death of the library, writing that "as electronic resources continue to gain importance,...the need for researchers to visit libraries will rapidly diminish...and the library as an institution will begin its inevitable decline."(Stueart, 93)

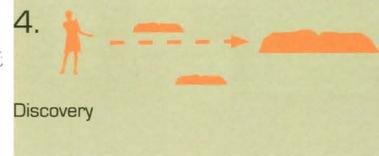
Even though these authors spell out an end to the Library as a physical destination. I assert that the Library must continue to take the form of a building. The Library as a place will continue to be important in order to provide advantages of research that neither a Paper based Library nor a Virtual/Completely Digital Library could provide. These advantages

- 1. Librarian expertise to direct users to information
- 2. Chance encounters with other people of shared interest
- 3. Communication with disparate or foreign bodies of knowledge
- 4. Chance discovery of new sources or new interests while searching through information















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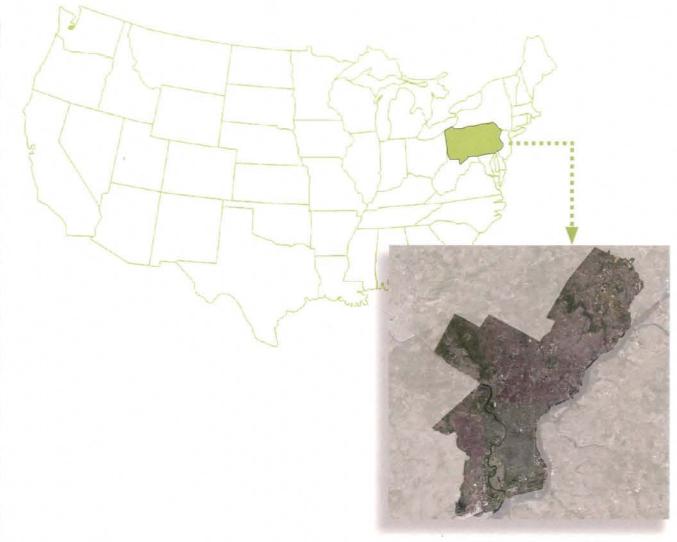


FIGURE 1

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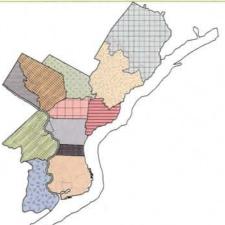


FIGURE 2

Neighborhoods

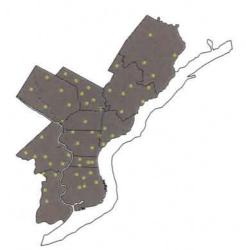


FIGURE 3

Free Library of Philadelphia Branches



FIGURE 3

Forest

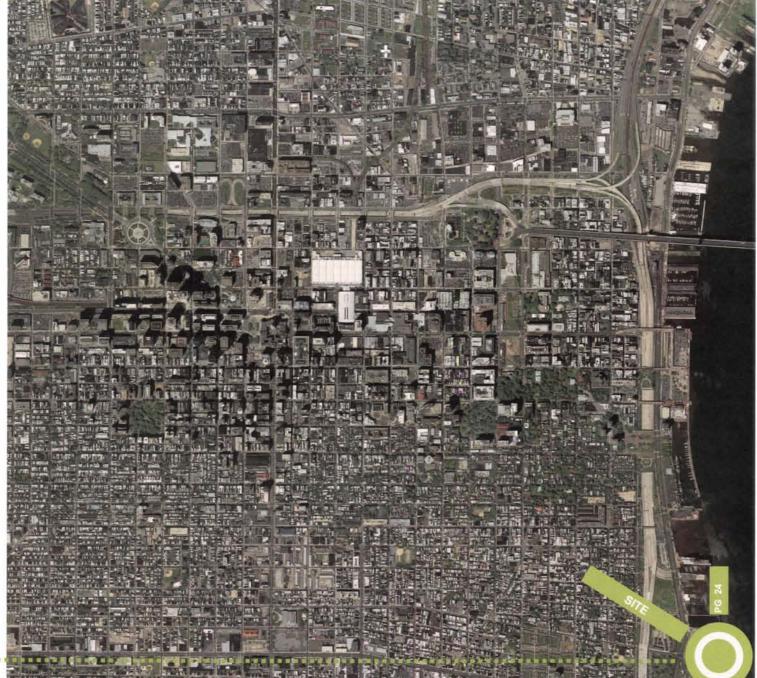


FIGURE 4

Center City Philadelphia







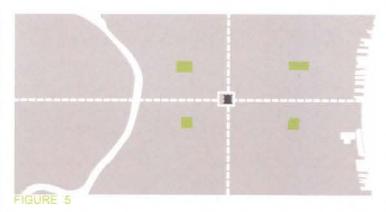




City Parli Diagram

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Original William Penn Plan

Center City Districts



City Plan before Benjamin Franklin Parkway



















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*Site 4 Family Court Art Museum 4 Free Library of Philadelphia Franklin Institute Academy of Arts and Sciences

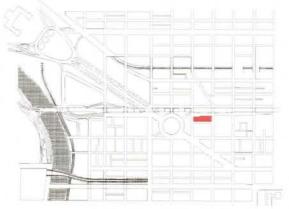
Cathedral of Saint Peter & Paul

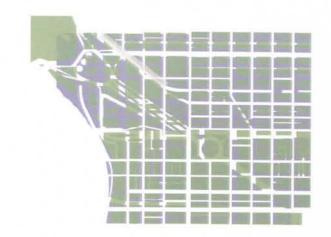
FIGURE 12

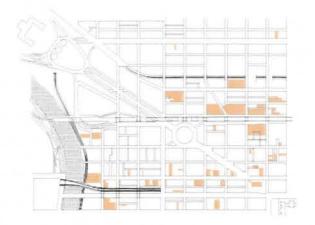
3D Axon of Benjamin Franklin Parkway

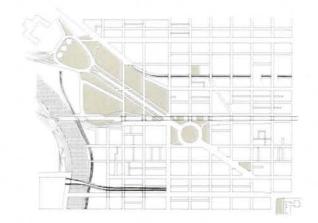


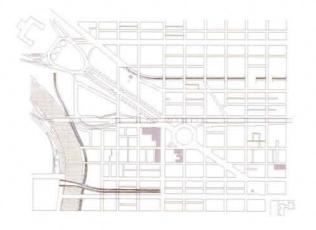


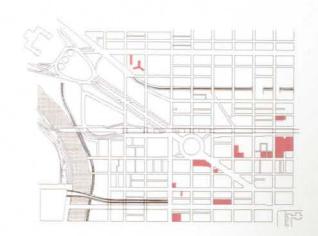


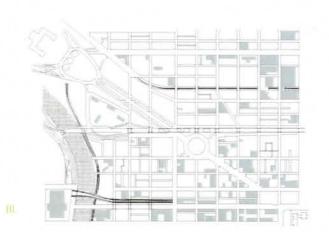












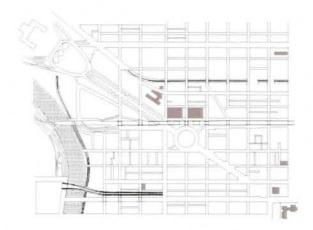


FIGURE 13

- I Sile location
- Overlapping of old city grid (green) on new city grid (blue)
- III Popular destinations
- IV. Hotels

FIGURE 14

- Parking lots and garages

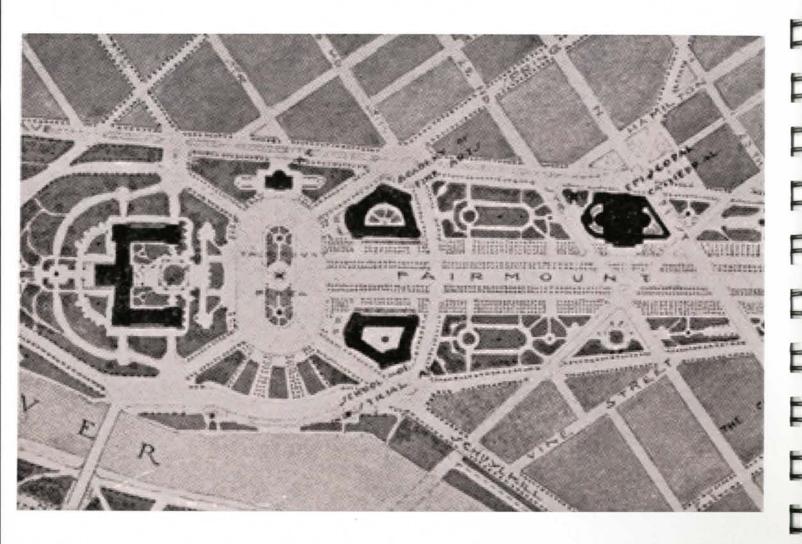
- TV. Municipal buildings

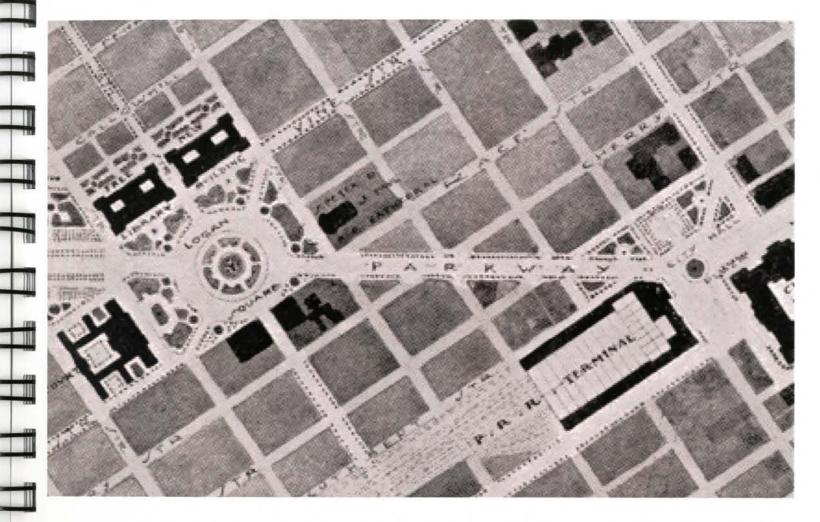














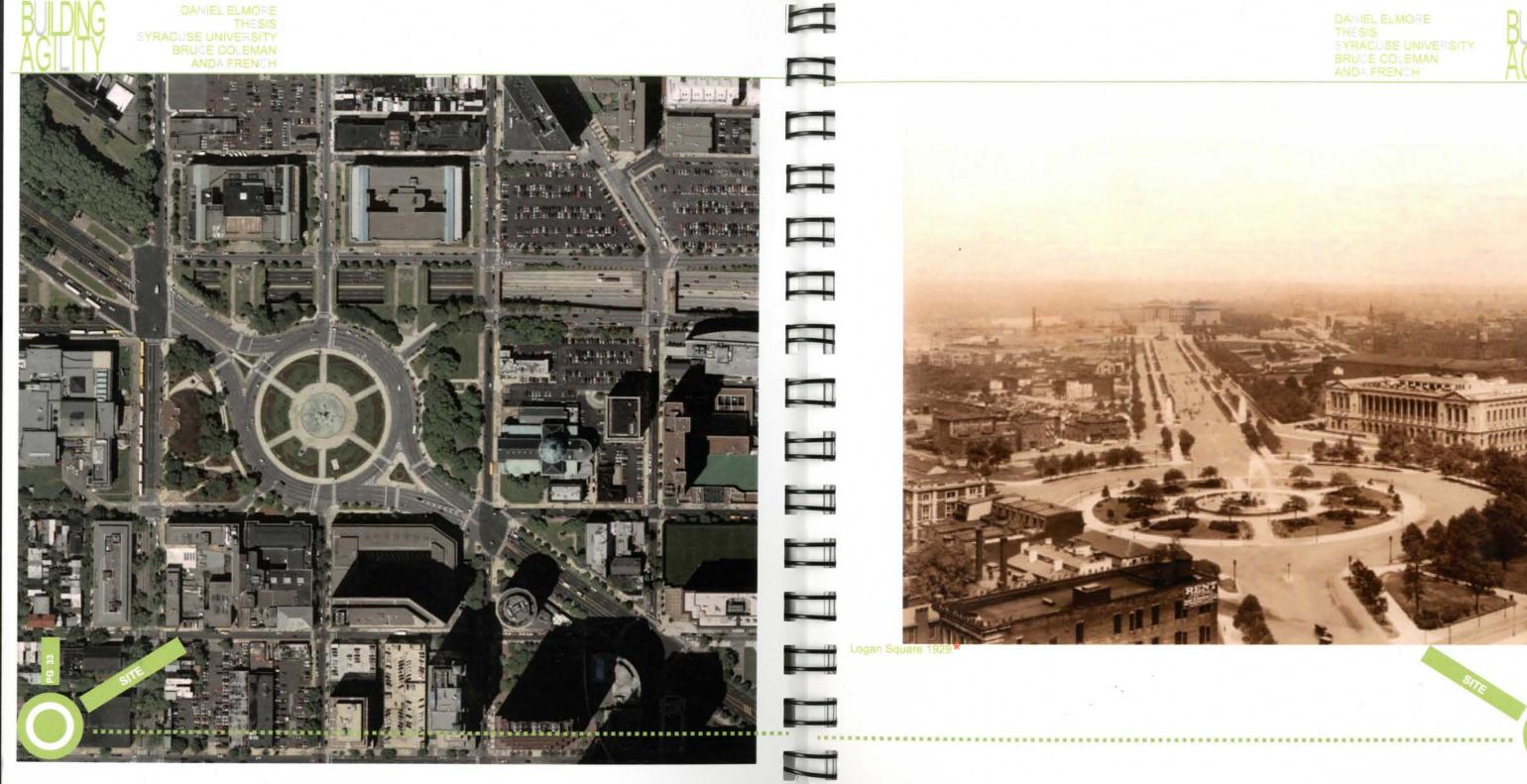














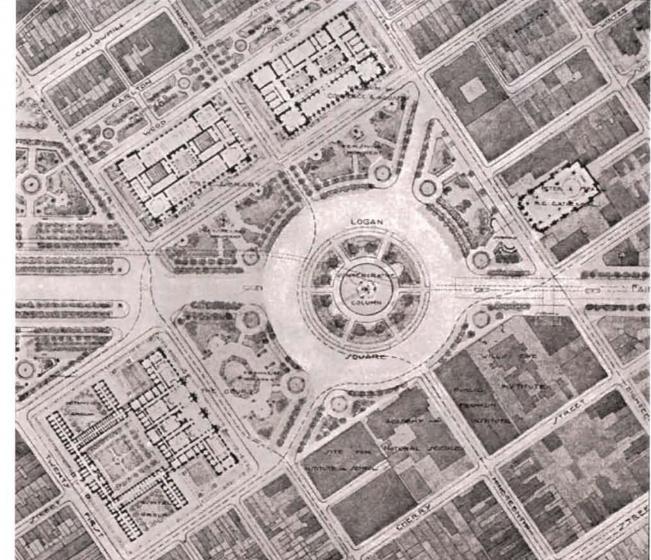
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Logan Square 1939 *



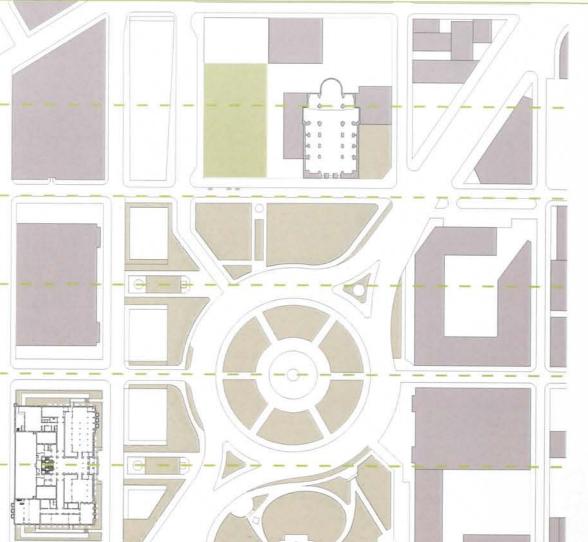
an of Logan Square as shown on plan of Jacques Greber approved by the Commissioner of Fairmount

Park in June 12,1918 *



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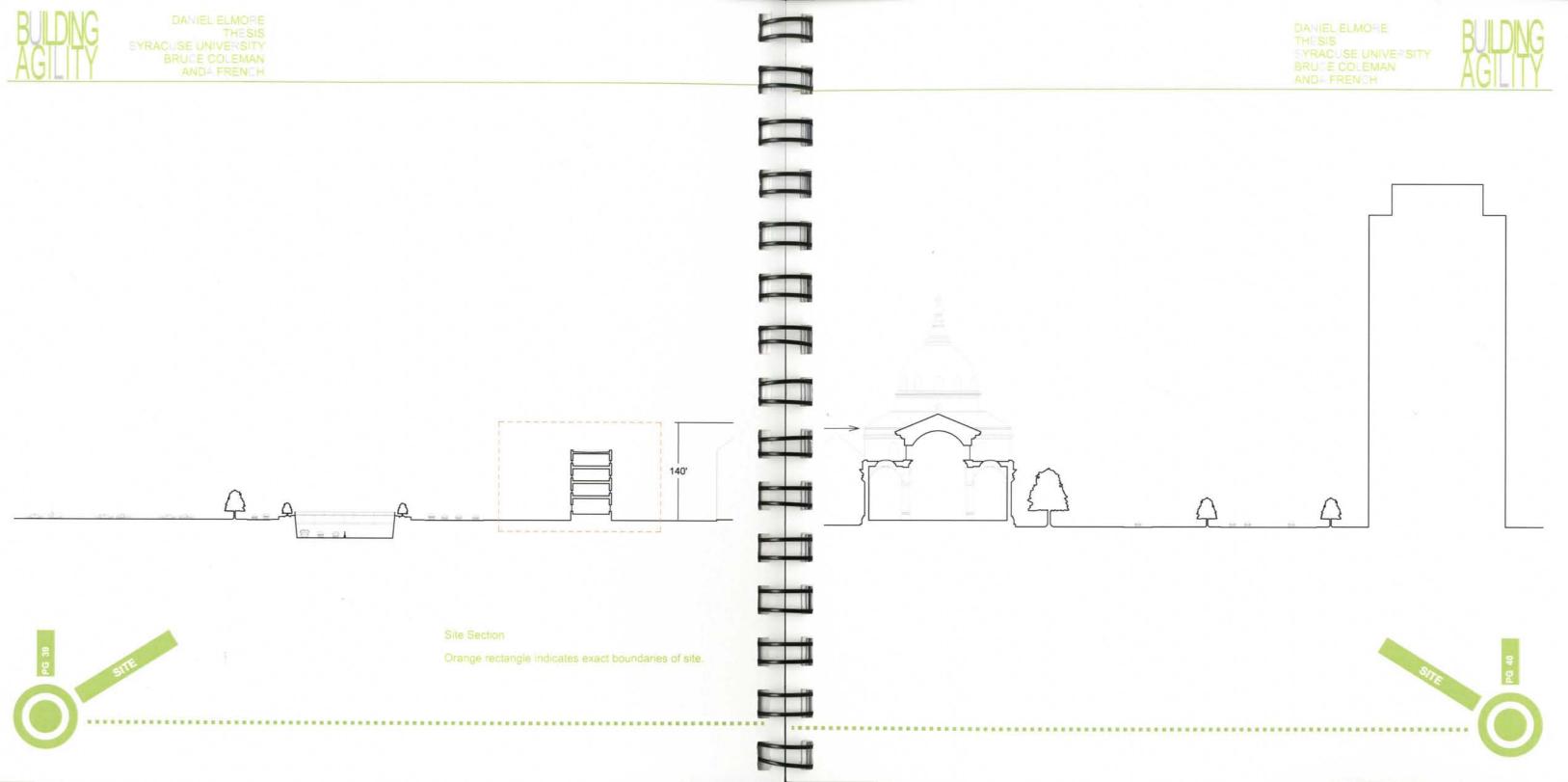




1952 outdoor mass in Logan Square *

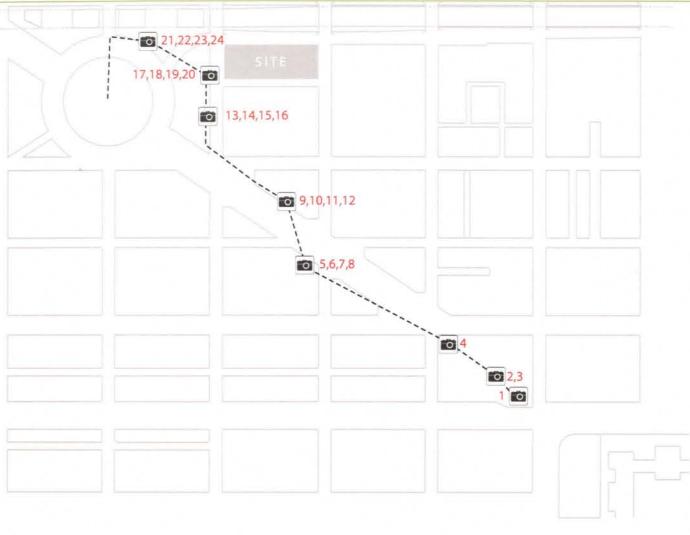






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Picture #



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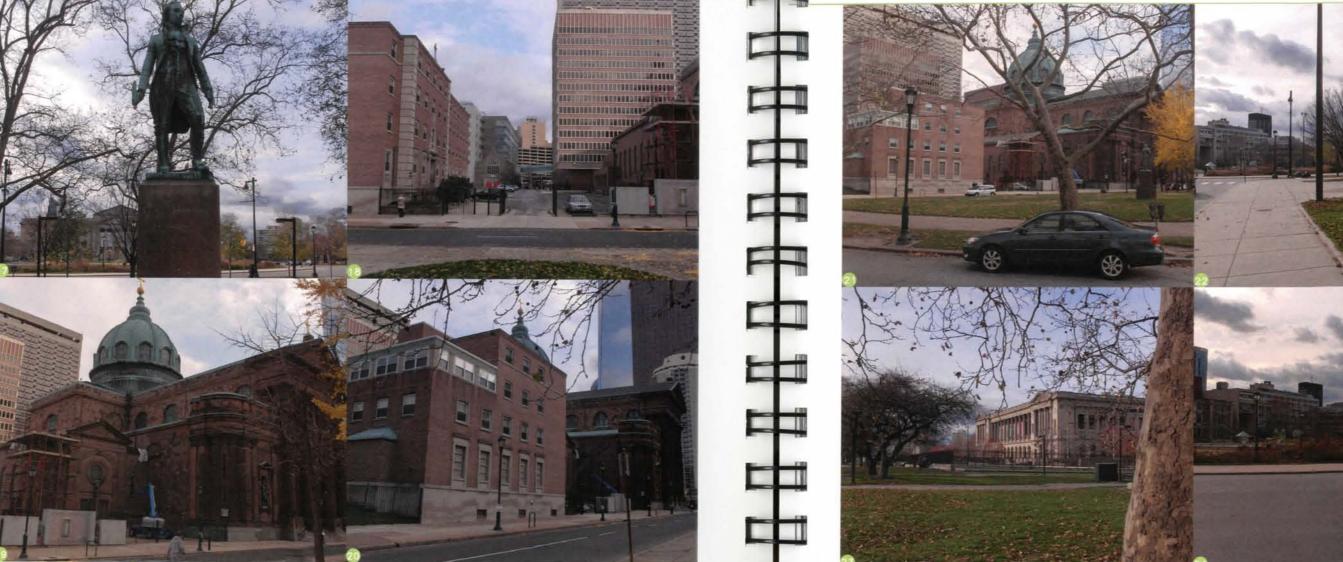
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Logan Square Fountain



FLP Eastern (Front) Facade







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Free Library of Philadelphia









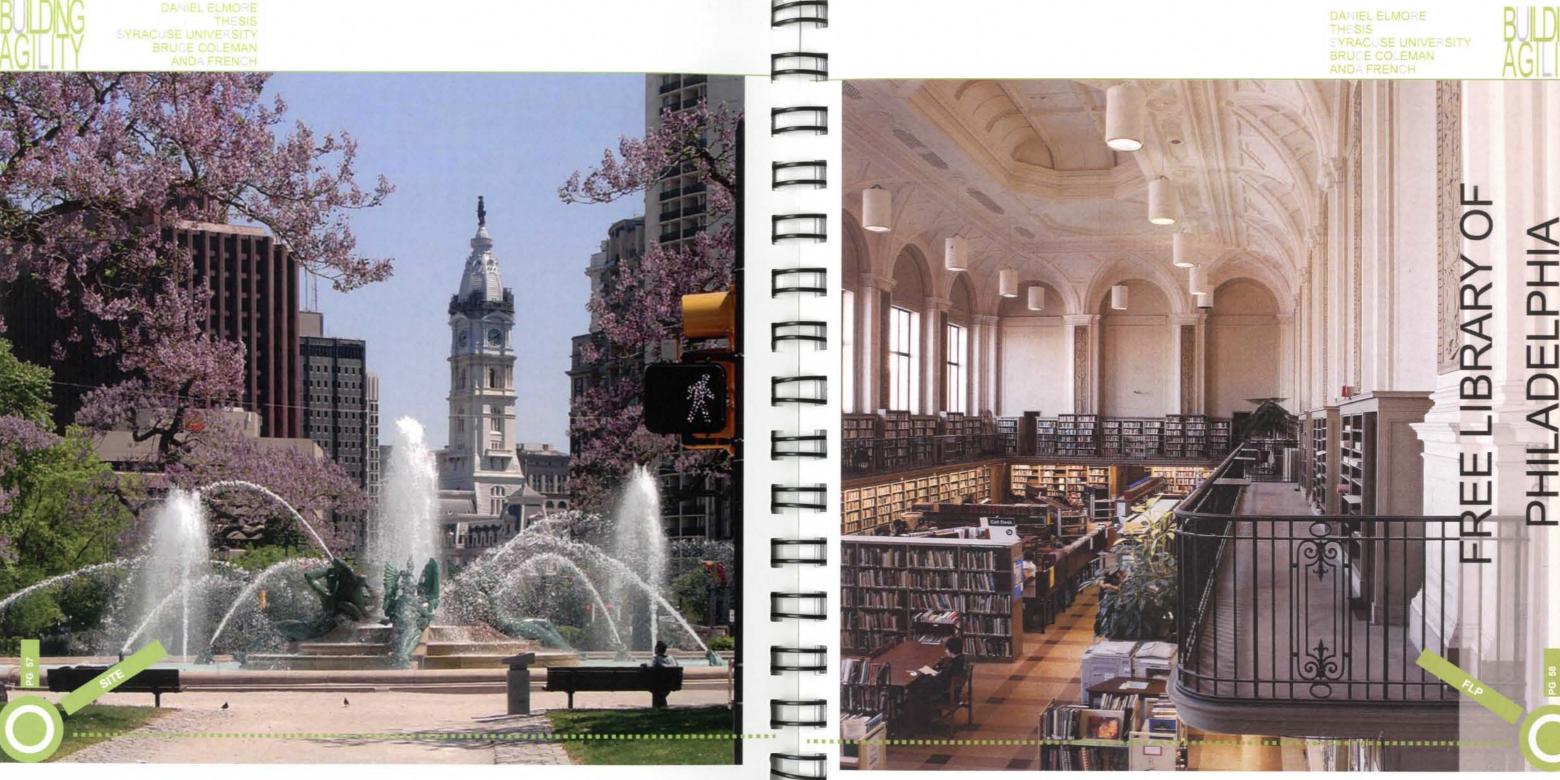














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Free Public Library Mission Statement

The Mission of The Free Library of Philadelphia is to provide to all segments of

Philadelphia's diverse population a comprehensive collection of recorded knowledge, ideas, artistic expression, and information in a variety of media, including current

technology; to assure ease of access to these materials; and to provide programs to stimulate the awareness and use of these resources. The Free Library will create a

enlightenment, community enrichment, and economic vitality throughout the region.

welcoming and inspiring environment for learning and will promote individual

The Free Library has four primary roles: It will provide current materials of high interest in a variety of formats for persons of all ages. It will provide timely, accurate information, and reference services employing a highly qualified staff who provide the link between the Library materials and users in a congenial and professional manner. It will support the educational goals of Philadelphians by providing materials and programs for children, as well as for their parents and caregivers.

The Free Library of Philadelphia will uphold the public's freedom of access to knowledge. It will recognize its responsibility as the Public Library for the City of Philadelphia, as a District Library Center for Philadelphia County, and as a Statewide Resource Center for the Commonwealth of Pennsylvania. (http://www.library.phila.gov/)

Journal, Magazine, and Newspaper Titles	3,077	2,874
DVDs	98,160	154,241
Microforms	1,995,627	1,775,985
Government Documents	1,117,308	1,115,872
Audio Materials	1,114,588	1,078,470
Catalogued Books—Juvenile	1,128,534	1,264,040
Catalogued Books—Adult	2,326,108	2,297,017
Collections Statistics	FY2007	FY2008
Inter-Library Loan Requests Processed	30,786	24,240
Materials Borrowed System-Wide	6,328,706	7,037,694
Registered Borrowers	497,427	504,561
Reference Questions Handled	3,067,723	3,217,169
Library Visits	6,422,857	6,648,998
	FY2007	
LEAP Attendance	284,360	277,792
Attendance at Children's Programs	259,310	283,645
Number of Children's Programs	12,878	13,591
Attendance at Adult Programs	170,852	208,793
Number of Adult Programs	8,633	10,521





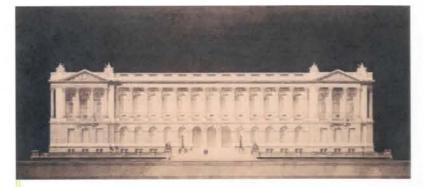




















II. Architectural Rendering Eastern (Front) Facade

III. Historical image of Library Lobby

IV:Historical Image of Library Lobby





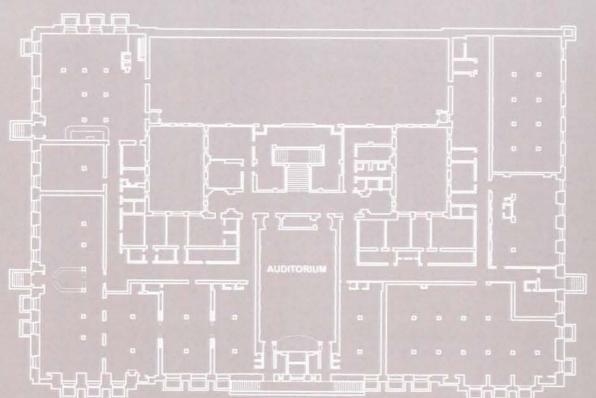




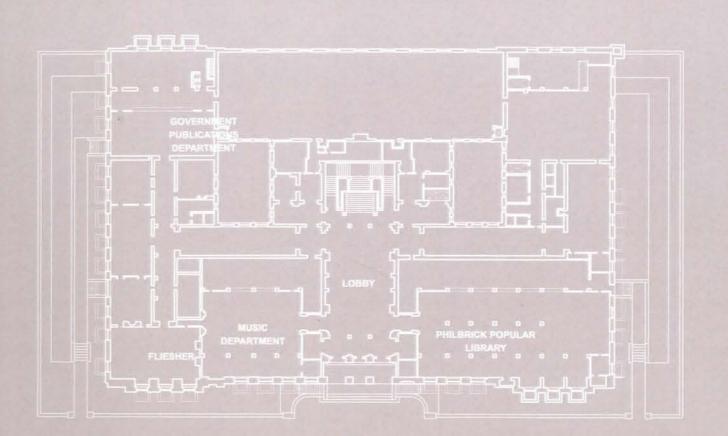








GROUND FLOOR PLAN



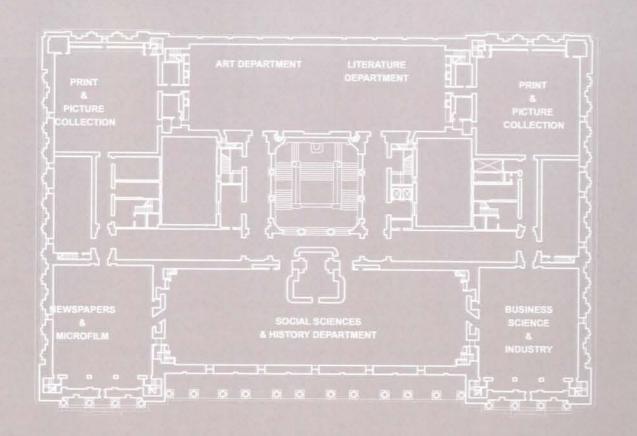
FIRST FLOOR PLAN

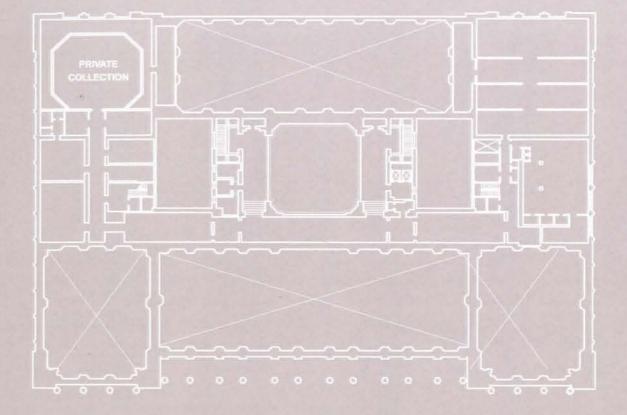




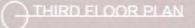






















Architect: Hello Mr. Director

...We have already gotten a number of complaints from users complaining that the books they need are not readily accessible. We also need more space for computers, and are forced to choose between designating space for computers and designating space for books...

Gasp! Where's

I'm quite outragged as well Chipmunk!





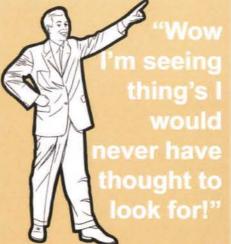


.. In addition to not having enough space, I am also concerned about the future of the library as we enter the digital age. The Library as it exists to day is being seriously threatened by digital technology. Already, a lot of the functions of the Library have been taken over by the computer. I would like to see the Library continue to exist as a physical space because there are a number of interactions that happen in the physical rhelm, that cannot happen in the virtual rehlm, that are fundamental to research. These include:

- 1)Librarian Assistance
- 2) Chance Encounters with people of similar interests
- 3) Unintentional discovery of new resources and interests.

I am embracing the fact that books may become completely digital one day but there needs to be a way to combine the advantages of the physical library with those of the virtual library; a building that can mediate between the two.





"I'm the
Librarian!
Let me
assist you
in many
ways a
computer
cannot!"

Architect: I have an Idea! I will design you a building that can ...

1. not only house the complete collection of books that you have now, but the walls and floors of the building will be adjustable such that they can accomadate the expansion of your collections, as well as the manner in which they are arranged, whether by dui-decimal system or by subject matter.

2. I will design a building that anticipates a change in technology from paper books to a completely digital interface. The Digital Library will no longer be merely a place to house objects, it will be purely a gathering space within which libraris

gathering space within which librarian or professional research assistance, chance encounters, and unintentional discovery of new research interest take place. The building will be a collection of assymbly spaces who sizes are dependant of the amount of research interest in that topic. Everything from a large gathering space that can hold thousands, to the smallest individual study carol. The building will constantly be able to readjust itself to adapt to research and programatic needs.

3. Should the nature of the Library change again, all of the building's systems are replacable, interchangeable, and re-arrangeable to allow for maximum flexability.



Fin





SERVICES OFFERED



"Hi! I'm Bob, Chief Director of the world's first semi-digital library, a branch of the Free Library of Philadelphia housing the library's digital media collection. I'm here to tell about the exciting new services that our revolutionary new library will offer."

Custom Searching!

"The entire collection of digital books can be rearranged to suit your personal search preferences."



Digital Homing!

"Just say the word and the building will direct you to the book you desire, or bring the book to you if you prefer. We can even direct you to the bathroom if you need."



"Our Librarians can give you one-on-one assistance to help you maximize your search results. That beats clicking the help button on your computer any day."

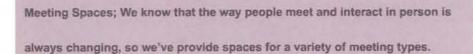
Skype!

Librarian Assistance!

"We will arrange real-time meetings with Internationally renowned experts in whatever topic you're interested in.

Real-time Interlibrary Loans!

"No more ordering and then waiting a week. We'll get you the book you need in jiffy and even print you a version if you'd like.



...and these are just SOME of the services our semi-digital library will offer!















DANIEL ELMOPE THESIS SYRACUSE UNIVERSITY BRUCE COLEMAN ANDA FRENCH

> NONTAPERED (CUT) EDGE AGAINST WALL

DANIEL ELMORE
THESIS
SYRAC SE UNIVERSI
BRUCE CO EMAN





Technology should be an applique, rather than being embedded into the building. The building has a more intimate relationship with technology, and technology can be replaced just as easily as one can change wall paper or kitchen tiling. No major demolition required.



2008 Summer Olympics Opening Ceremony; Pliable digital screen.







DANIEL ELMOR THESI SYRACUSE UNIVERSIT BRUCE COLEMA AND A FRENCE

DANIEL ELMORE THESIS

SYRACUSE UNIVERSIT BRUDE COLEMAN

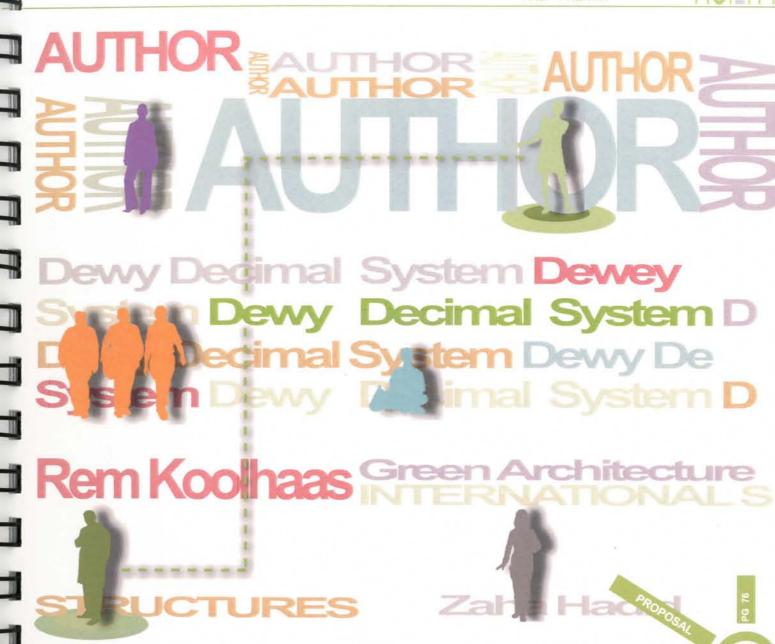


ORGANIZATION OF INFORMATION WITHIN THE BUILDING

Information in the building can be organized in a variety of ways. At the push of a button, the entire library collection can be rearranged according to the old Dewy Decimal

System, Authors, or topics of interest. There is never one set way that the collection is organized. If a group of architects would like to use the library for example, the entire library can be reorganized to only contain books of architectural interest. If an elementary school has a field trip to the library, the entire library can be reorganized so that all of the books on display are on their reading level. The Library ritual will still be the same as in the traditional library. (1) Users will begin their research by searching topics on the computer. (2)The computer will direct you to the book based on the configuration of the library at that time. (3)During one's procession to the book, users can browse the collection displayed and discover potential topics of interest. In addition, the building will direct users towards books and people of with similar

research interests.





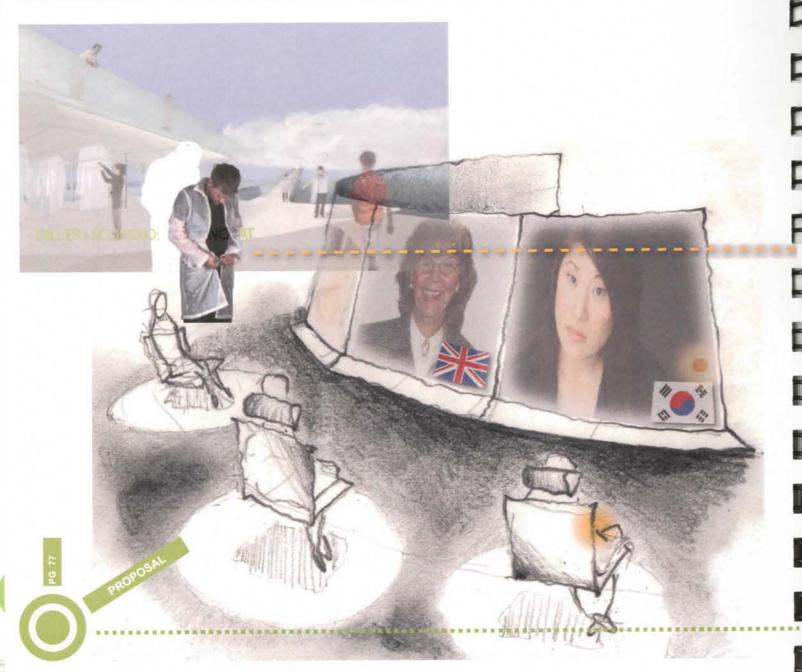


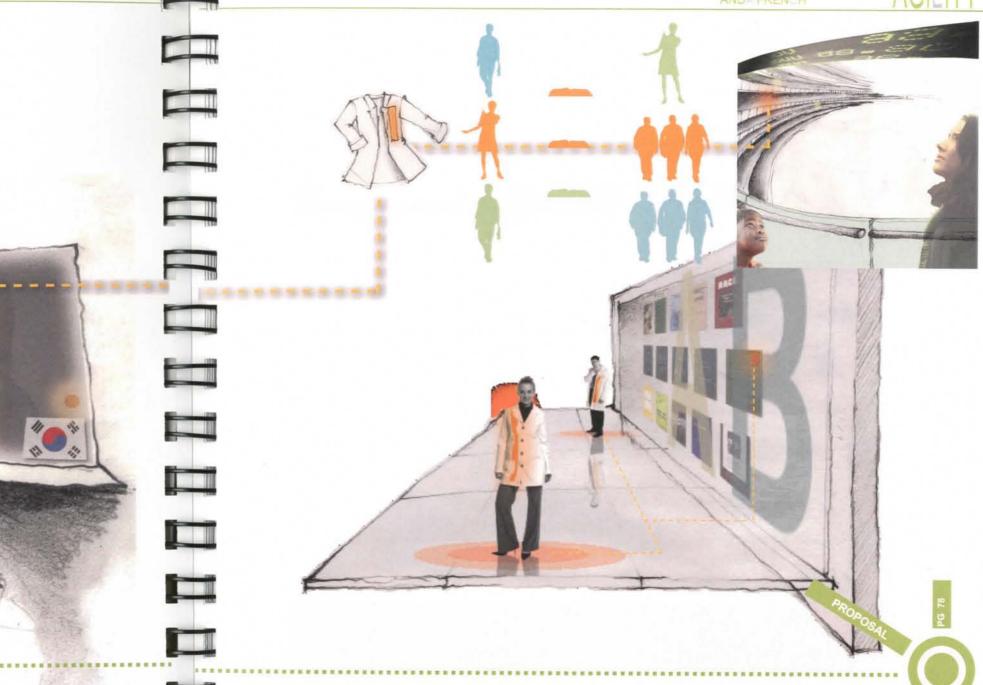
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ORGANIZATION OF INFORMATION WITHIN THE BUILDING













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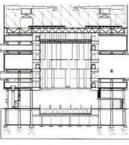
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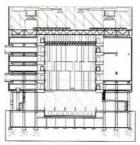


BUILDING OBJECTIVE





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This building is an addition to the Free Public Library of Philadelphia designed to manouver the inevitable transition between the present day library of paper books and digital library of the future.















READINGS















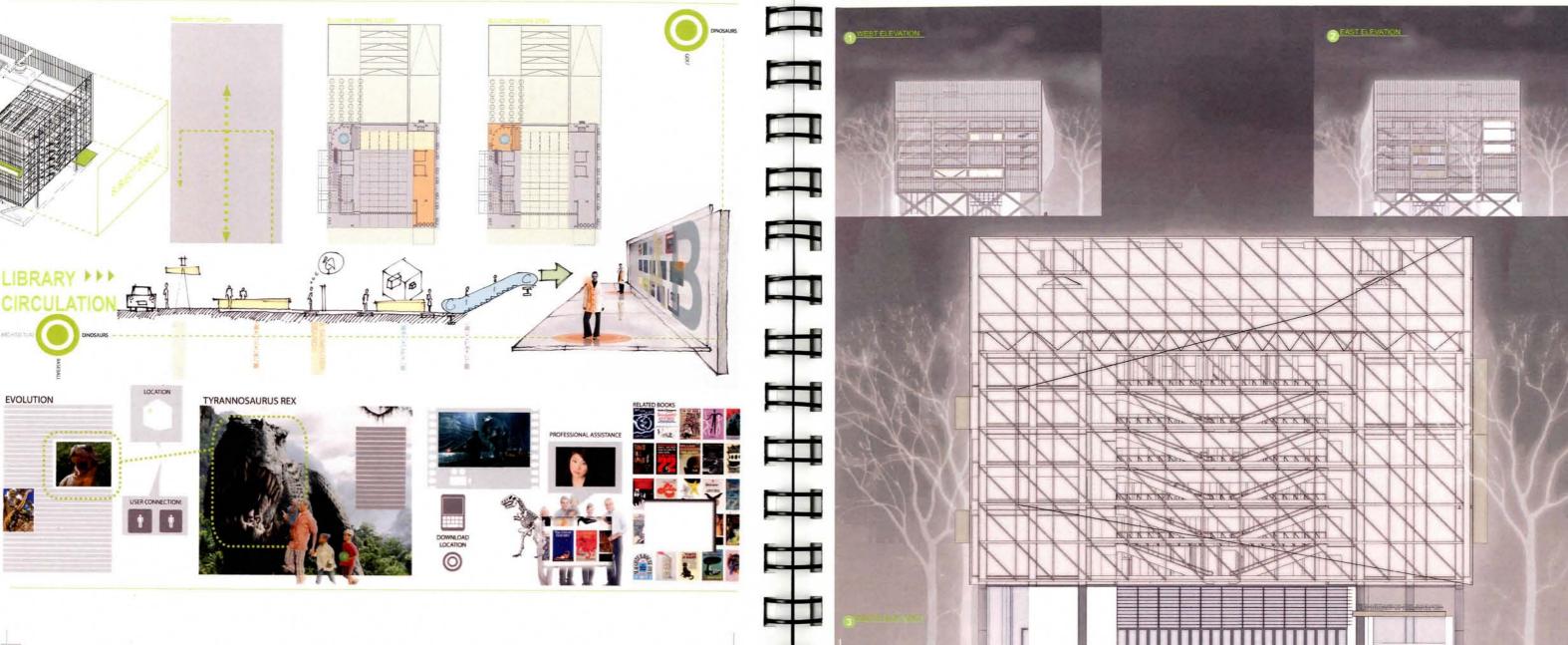














AND HEN # SITE PLAN 64TH SCALE



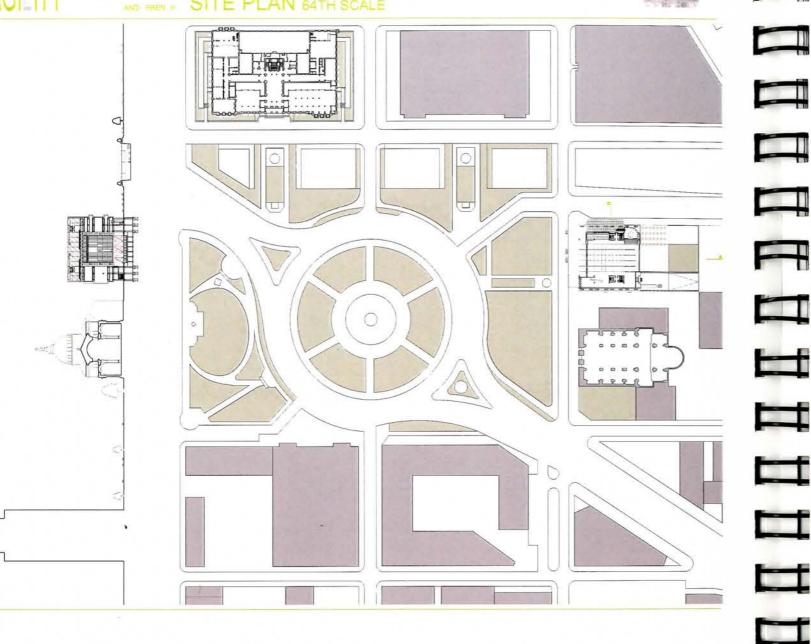


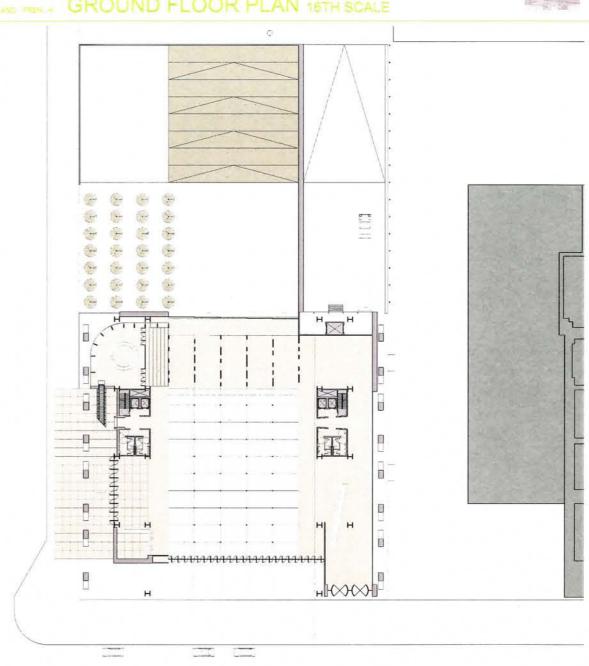


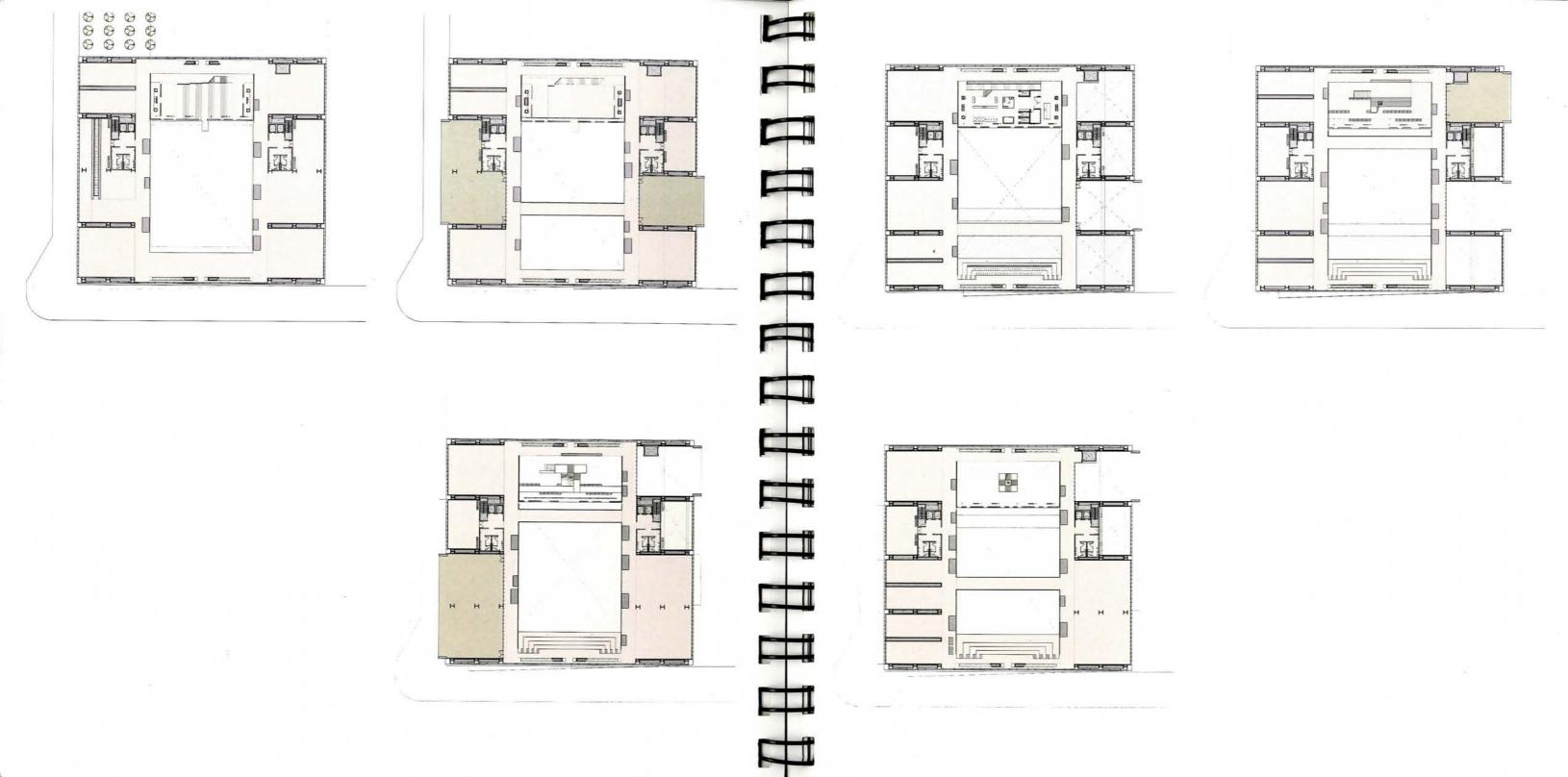










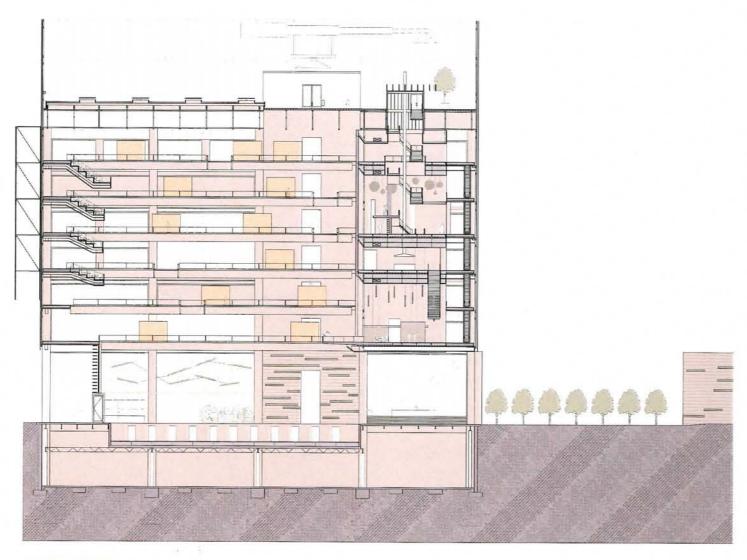




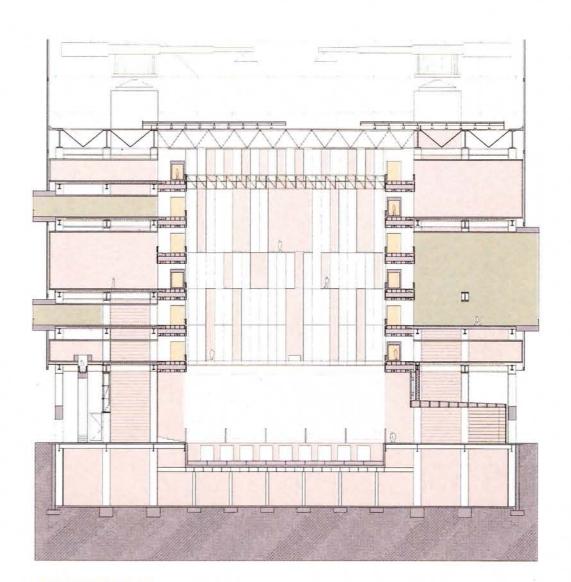
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AND FREN H SECTIONS 3/32ND SCALE





SECTION A



SECTION B



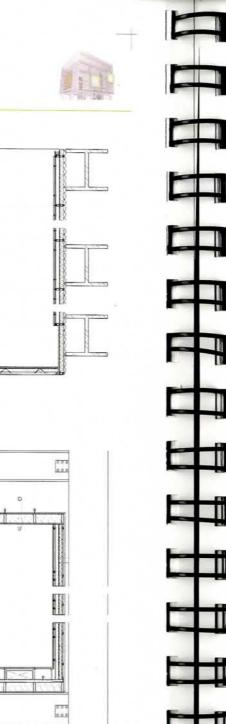
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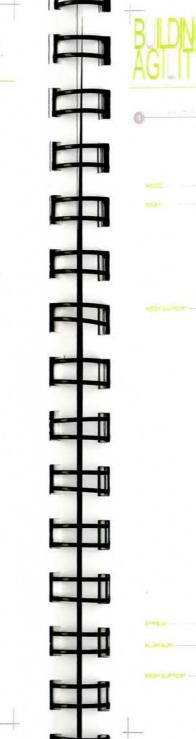
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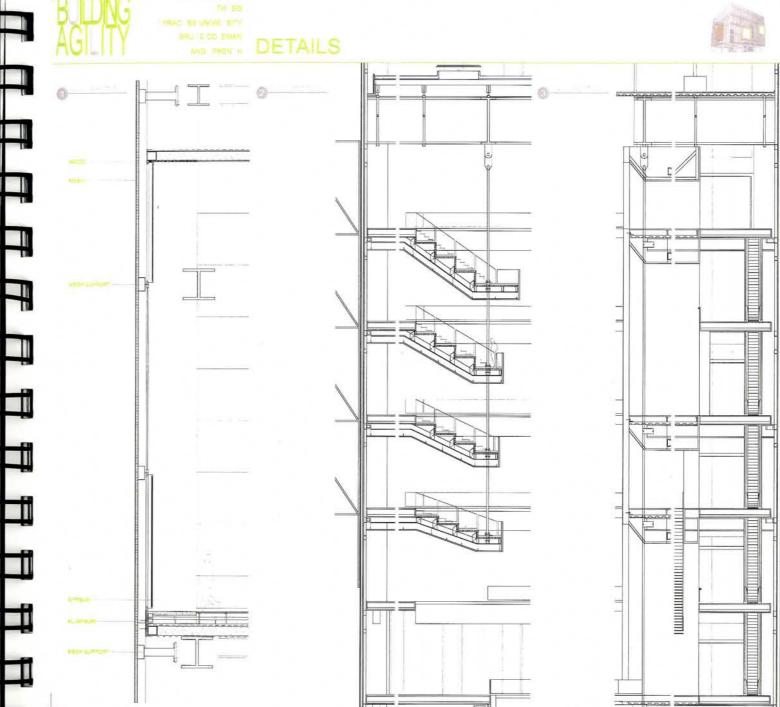
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AND FREN - PERSPECTIVE







AND FREN * PERSPECTIVE







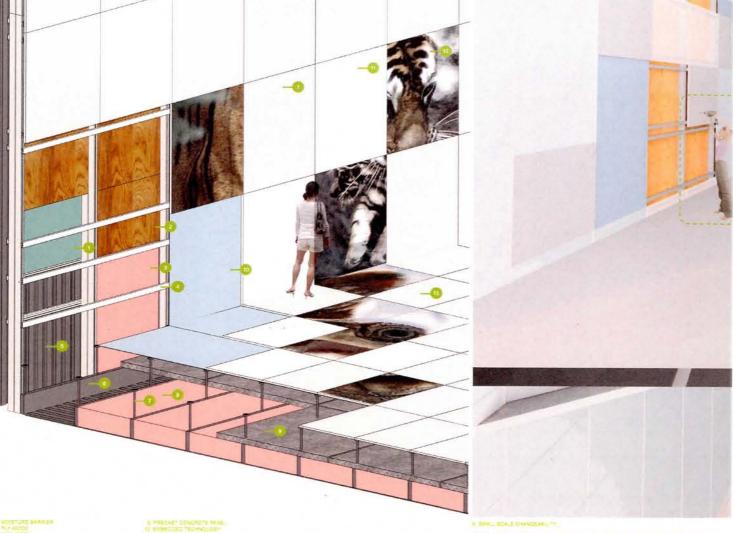




DA: IEL ELMO-E

AND FRENCH AGILE ASSEMBLY





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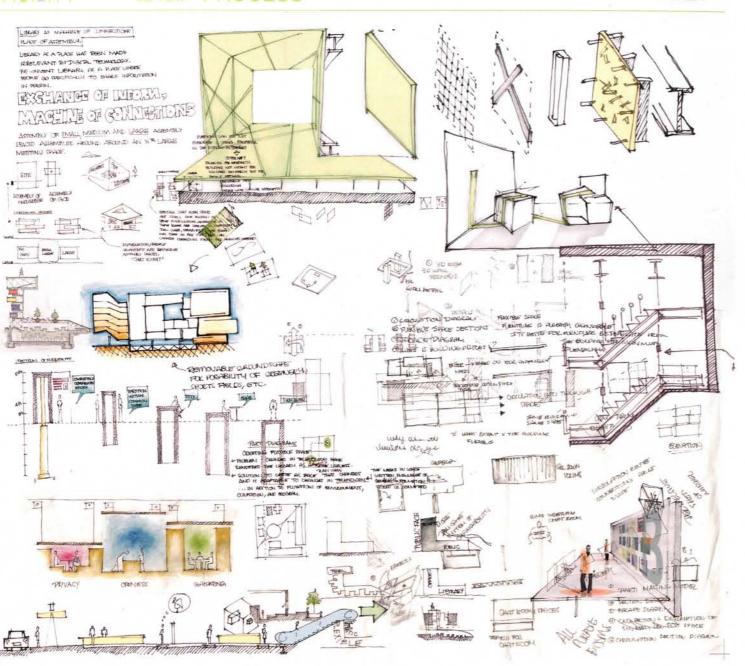


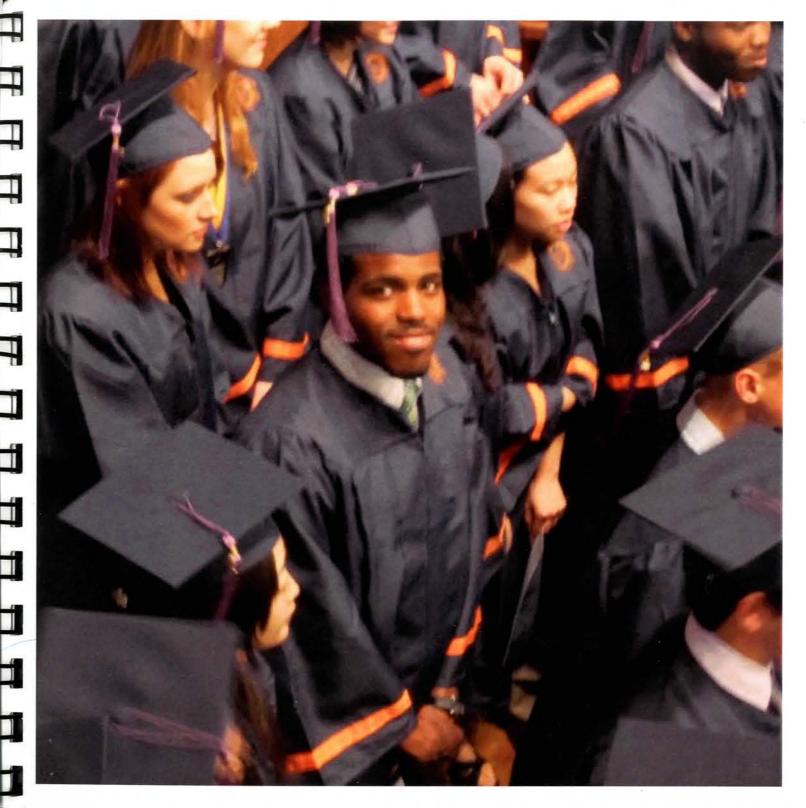
BUILDING AGILITY

DA RELEMBO E THESE VRACE SELEMME SITE SECURICO SIMA

PROCESS







GLOSSARY OF TERMS

Building Occupancy Number or type of people utilizing the building

Environment Natural outdoors environment, weather

Program The function of the building or the function of individual spaces within the building.

Technology Any form of instrument ranging from books, to computers, to HVAC systems.

Semi-virtual Library General term meaning that the library is experienced partly through technological means and partly through sensual interaction.

