

CHRISTIANNA I RABER				
1	PORTFOLIO			
2	ALEXANDRIA, VIRGINIA			
3	1994-2003			
4	SELECTED WORKS			

04	firm work / 1996-2001 renzo piano building workshop internship david guthrie studio workshop eisenman architects internship			
	gensler <i>dc</i> paul lukez architecture internship			
40				
12	taf o'neil ford traveling fellowship / 1999 prague + paris			
40				
13	personal work / 1996-2001			
20	publication / 1996-2001			
21	school work / 1994 - 2003 mit graduate work / 2002 - 2003 rice fifth year studio / 1999-2000 rice fourth year studio / 1998-1999 rice third year studio / 1997-1998			
	habs / haer summer internship / 1996			
	rice second year studio / 1995-1996 rice first year studio / 1994-1995			
40	misc metalwork / 1994			
41	credits			



The project was a respectful rethinking of the interworkings of Beaubourg and of how to reconcile one of the landmark buildings of the twentieth century with the likes of the twenty-first century. It was alaboratory and a testing ground for full scale mock-ups in steel and wood, experiments with self-hydrating basins, and countless site visits.

R e n z Rénovation

Centre Georges Pompidou Café Costes Banque d'acceuil suspendu Acceuil principal

1 2 3

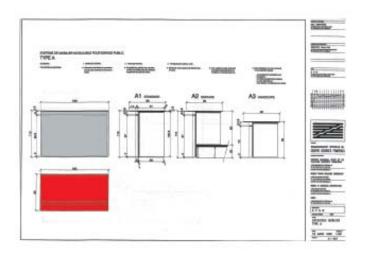


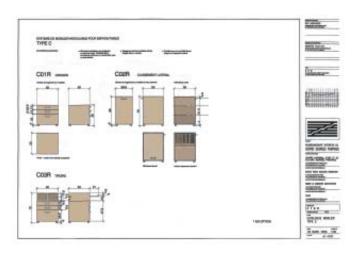


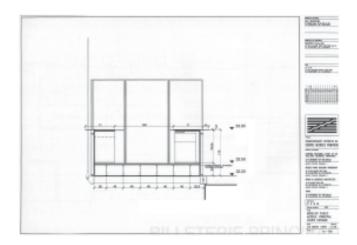


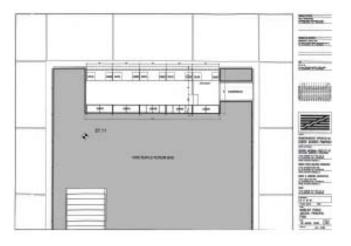












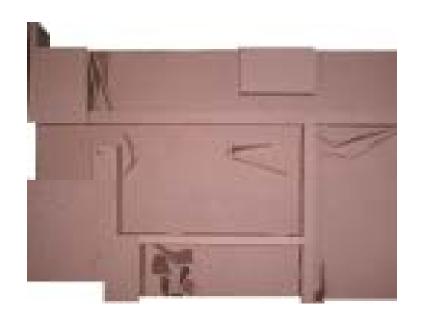






David Guthrie Studio Workshop . Miller Outdoor Ampitheater Kiosk Houston, Texas Summer 1998

This small outbuilding was designed over two days as a temporary structure to house the concessions for the neighboring amphitheater of Hermann Park.





Whitney Museum Millennial Exhibition 2000 New York, New York Summer 1996 Eisenman Architects

The deformation of time and space occurs within the confines of the Breuer-designed masterpiece. Sinuous walls demand the viewer to experience their own body moving through space. These bold formal gestures cause the museum-goer to question their own subjectivity in series of architectonic encounters.





Shorrow Silver Spring Steadpoorless

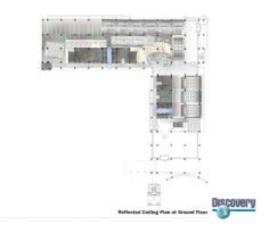


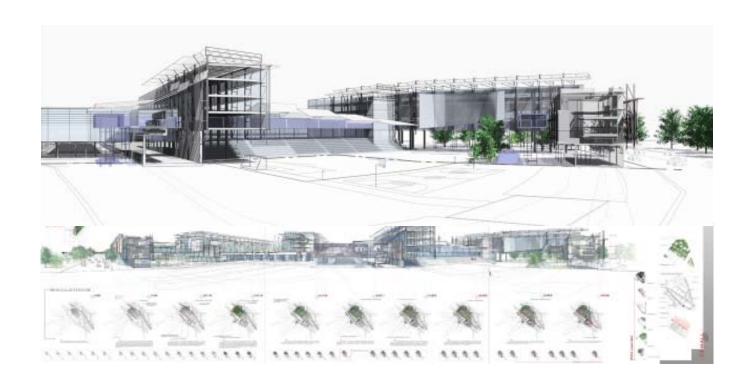




Discovery Communications Headquarters Building Silver Spring, Maryland 2000-2001 Gensler DC

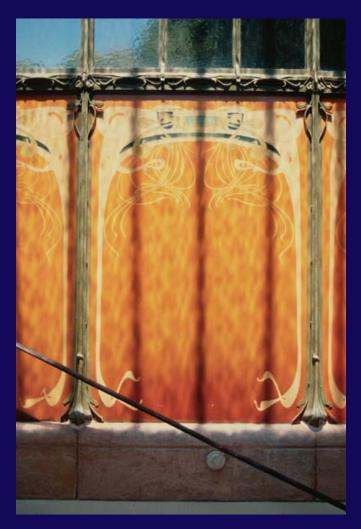
A ten story building which allows the spectrum of Discovery employees to experience the materiality of their daily environment through sight, touch, and sound. The process of arrival and discovery throughout the building is in keeping with the company's marketing approach.



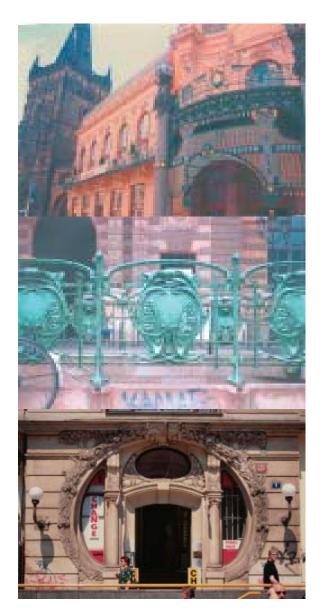


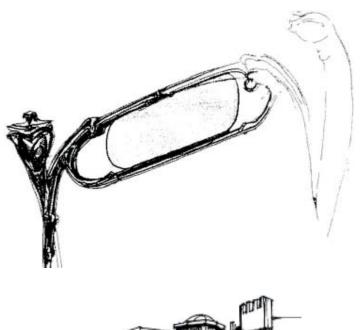
Paul Lukez Architecture Internship. LA Forum: Dead Mall Design Competition 2003 Cambridge, MA. January 2003

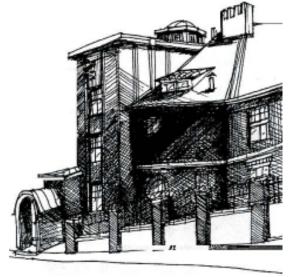
Collaborated on a 500,000sf+ complex based on a collection of ideas called the eMall. Responsible for the tectonic development and 3-dimensional AutoCAD computer modeling of the project in its entirety. Held meetings with the Principal, Paul Lukez, throughout the design development of the project.



PRAHA | PARIS
Texas Architectural Foundation:
O'Neil Ford Traveling Fellowship 1999

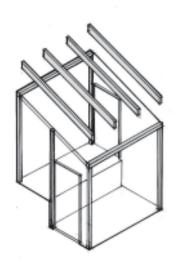


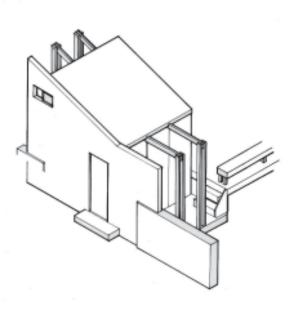




Art Nouveau and Early Modernism in Prague and Paris Texas Architectural Foundation O'Neil Ford Traveling Fellowship Summer 2000

A survey and photographic essay of Art Nouveau architecture and ornament in Prague and Paris at the turn of the twentieth century. The goal was a thorough exploration of the influence of the nature, indigenous vegetation, and their representation in buildings. In particular, attention was paid to the work of Jan Kotera, Jose Plecnik, and Hector Guimard and their use of ornament as an integral part of a building's architectural expression.

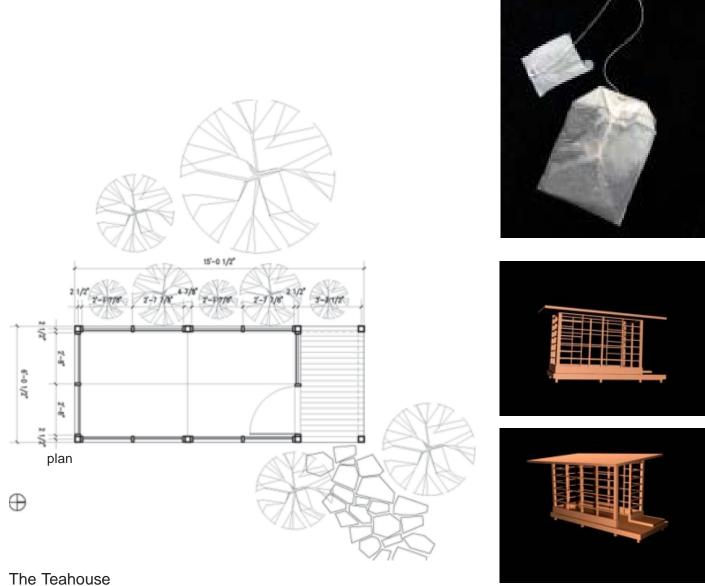








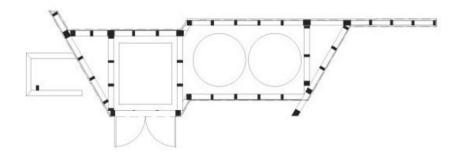
A building which instigates a dialog between brick and redwood.



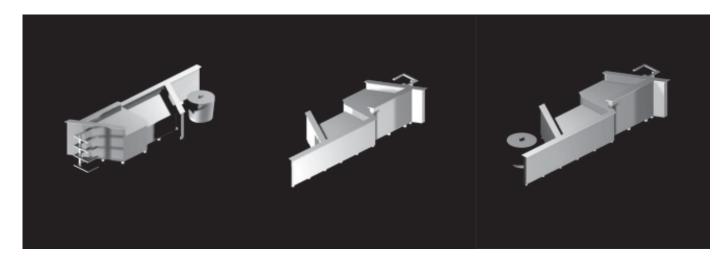
Hollin Hills January 2001
Designer Christianna Raber

A part-time studio, part-time space for tea-drinking to be built in collaboration with Catholic University in my backyard.





axonometrics



Re-use Recycle Center Hollin Hills March 2001 Designer Christianna Raber

A place for garbage, composting, lawn collections, and recycling for County trash pick-up. This device hides various containers necessary for responsible consumption and re-use.



Schon Pavilion Hollin Hills Fall 1999 Designer Christianna Raber

The design of an indoor-outdoor solarium for an elderly female and fellow resident of the Hollin Hills community. The structure is one of literal and phenomenal transparency, a gateway to the landscape beyond. Considerations for ADA accessibility and adaptability standards were incorporated into the design and execution.



A part-time studio, part-time tool shed for neighbors and fellow residents of the Hollin Hills community. The design also includes a gridded pergola to cover much of the deck space of the residence and lush vegetation to camouflage the house with its wooded landscape.



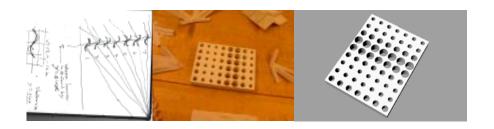


MIT Architecture SMarchS

Design + Computation

Graduate Work

Parametric Modeling 1
Graduate Thesis: HOUSE / i t e 2



MIT School of Architecture. SMArchS Design and Computation Program MIT Generative and Parametric Modeling Workshop. Spring semester 2003

Preliminary Exercise

3d printed models generated using functions within sRhinoscripting Methods and CATIA to produce a ZCorp starch model as pictured in color above.

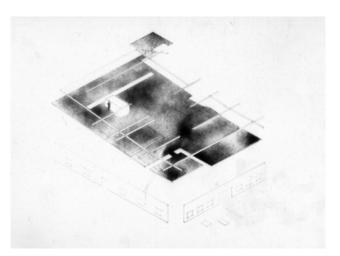
Final Exercise

Design of a floating canopy for the Boston MFA outdoor temporary pavilion, formalized by abstract data analysis of the light reflecting from the surfaces of 5 culturally significant sculptures from the Museum. Surfaces were modeled in Rhino and CATIA and printed with a ZCorp 3d-printer.











MIT School of Architecture. SMArchS Design and Computation Program "HOUSE *I i t e*: Less Calories Than the Normative House." Graduate Thesis Work. Fall 2003 - Spring 2004 Expected Completion: May 2004

An in-depth examination of the lightness of building materials and lighter ways of building prefab and manufactured homes. The goal of the thesis is equally to produce a house which feels light as well as actually is light, particularly to integrate high-performance fabrics which are lightweight and have many aesthetic qualities. This thesis takes an obvious and responsible stance on building and consumpion of natural resources in the built-environment. It also attempts to bring more design into the mainstream of American housing industry by conceiving a fully packaged product that is ready for the retail environment. Through physical modeling and computer prototyping, the project shall attempt to fully detail and package the ultimate HOUSE lite, and produce an operational manual for hypothetical owners.



Rice University Fifth Year

Low Cost House 1
Digital Studio 2
Costa Rica Studio 3



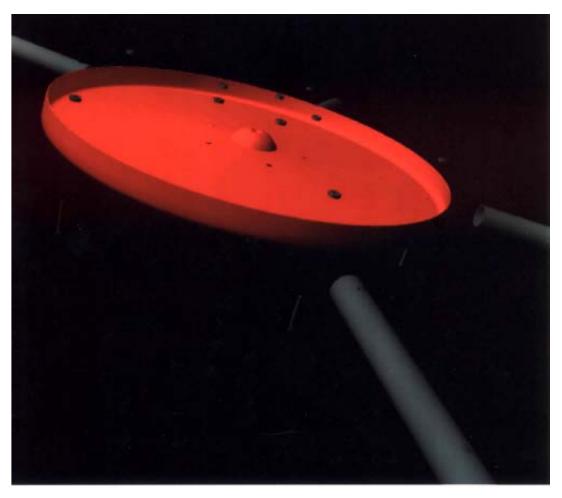
Low Cost House: Project Rowhouses Houston

Houston, Texas Spring 1999-2000

Rice Building Workshop

A student-built and designed exploration of pre-fabricated and modular wood frame construction. Pieces and vignettes included a custom corner window wall which I designed and helped fabricate, as well as specialized mechanisms for allowing the house to move on adjustable feet. The effort was built for one for several local Houston families.

Alias model and 30s animation of typical Bucky plate as illustration for research paper and article below



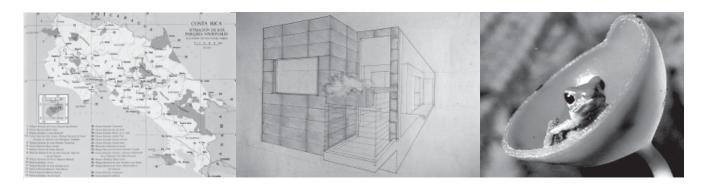
The Dymaxion R / Evolution: Digital + Mobile Studio Professor Keith Krumweide

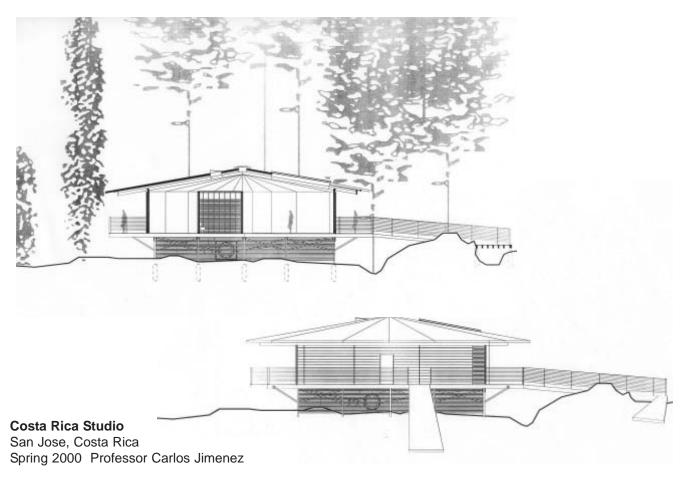
Houston, Texas Fall 1999

Buckminster Fuller's *Dymaxion* Dwelling Machine is merely one byproduct of an entire assemblage of thought, a revolutionary way of looking at the idea of shelter within a culture and an economy of mass production. Fuller marked the passage of time, or what he referred to as the '4th Dimension', in terms of industrial progress; seeing not only a sequence of finite events, but a seamless continuum that connected the universe.

For Fuller, the years from 1927 to 1946 frame a period of ongoing discourse on the relationship between technology and man, his theory of ephemeralization, and specifically, the *Dymaxion*, concept, the notion of deriving maximum output from a minimum of input.

These fundamental beliefs are a part of the larger Fullerian religion, a faith in which he finds art and science at the ultimate service of mankind. Even today within a design climate of perpetual ephemerality, Fuller still proves that intelligent design which anticipates social, economic, and technological change has the potential to contribute to social and cultural progress.





A project for a Rainforestry Research Center in San Jose, Costa Rica. The depletion of the rain forest is of utmost concern there. Destruction and rebirth are constant forces at work within the forest and the act of building a center for such research was in itself a delicate proposition. The project takes its inspiration from ideas about the forest's canopy, as well as the natural and indigenous architectures of the landscape.



Rice University Fourth Year Mobile Architecture Studio 1
Rice Observatory Competition 2
Light & Color Studies 3

SynchroCITY

- 1 Oblique view
- 2 Axonometric view
- 3 Axonometric view
- 4 Concept model



SynchroCITY:
A Houston Prototype
Houston, Texas Spring 1998
William Ward Watkins Studio
Professor Keith Krumweide
WWW Honorable Mention Award

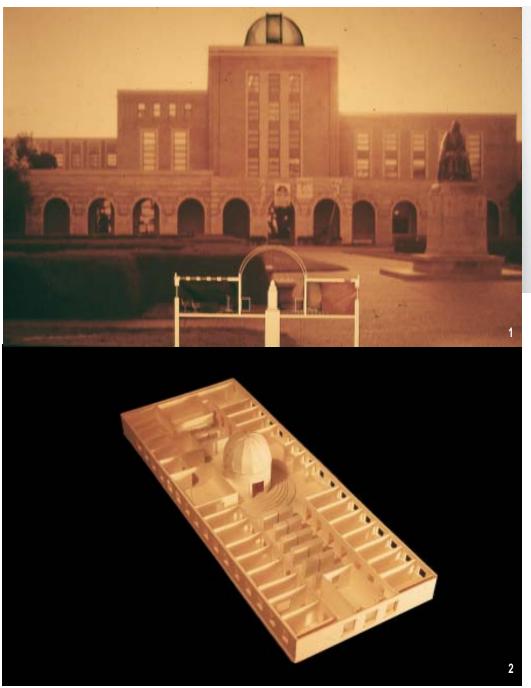
Six nodes in Houston, each occupying one of six districts: the Flower District, Downtown, the Galleria, Westheimer, Montrose, and the Museum District. By combining six cycles of programmatic usage, these fluidly dynamic organisms become energizers for the surrounding neighborhoods. They lend the district the vitality of an open air market which operates throughout the week.

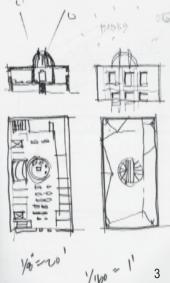






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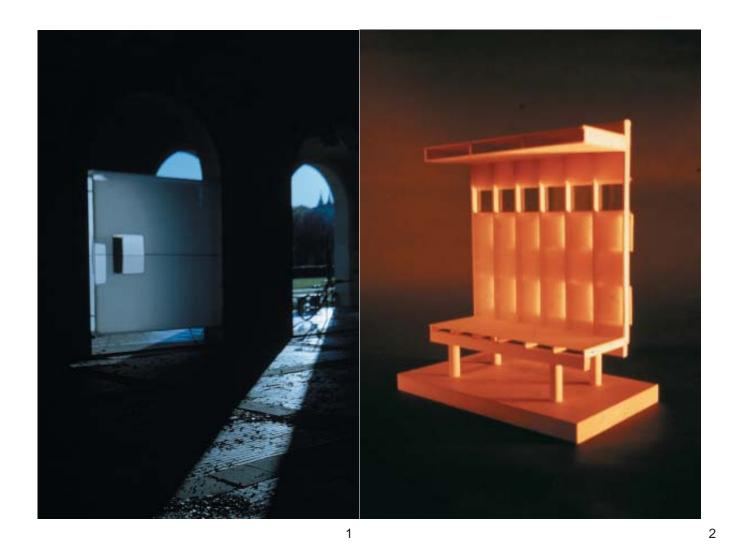


- Rendering of Fondren Library overlaid with section
- 2 Observatory model
- 3 Concept sketches

Rice Observatory Competition 2000

Fondren Library Rice University Campus First Prize Award

An observatory to be sited within Rice's Fondren Library off the main quadrangle, providing a central locale and access through the library below. The meandering sequence of arrival provides a process of discovery likened to the study of astronomy and astronomical research.



Light & Color StudiesHouston, Texas Fall 1999
Professors Wamble and Parsons

Light/Color Installation (1)

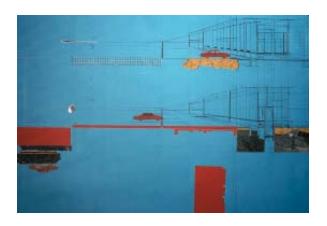
An installation for Rice University sited within close proximity to the School of Architecture designed to occupy the in-between space of Rice's ubiquitous arcaded walkways.

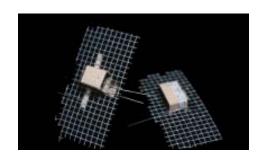
Structural Systems: Scaley-Fin Wall (2)

A study model for a multi-directional cladding system which allows light to penetrate at different sun angles.

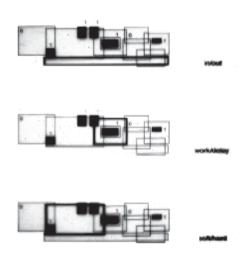


Rice University Third Year Voucher House Studio 1
Main Street Theater Drawing Study 2
Truck Stop Studio 3







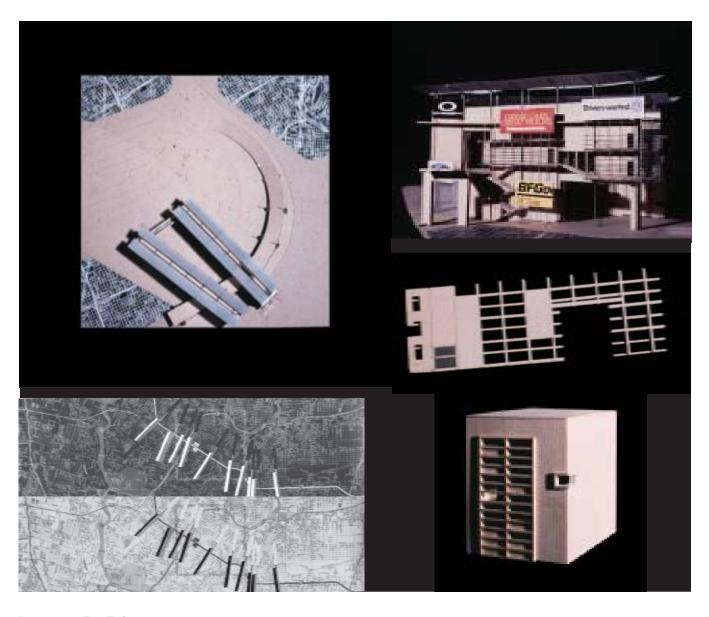




The Binary House: 0010 Voucher House Studio Houston, Texas Spring 1997 Professor Bell

A house for a single mother on welfare is conceived of as part of rethinking of downtown Houston. As the majority of downtown is littered with abandoned and primarily va-

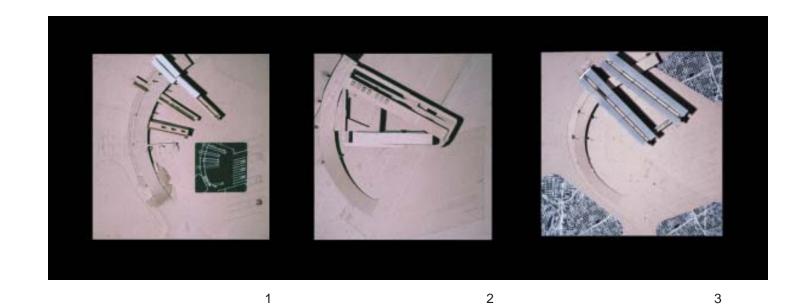
cant parking lots, this project attempts to recover these "lost" spaces and to literally recycle them using low cost and recycled materials.

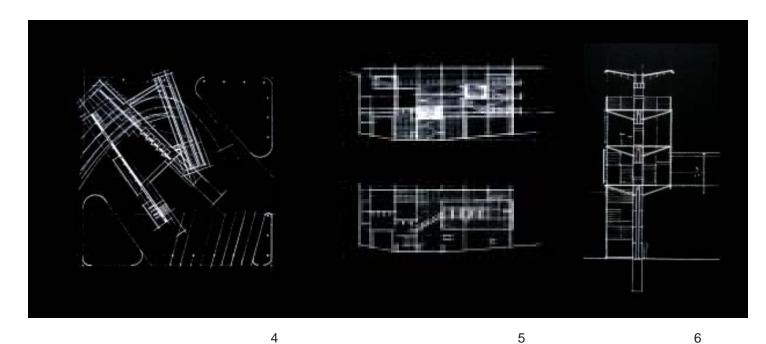


Interstate 59: Exit 66 Houaton, Texas Fall 1996 Professor El Dah-dah

This project maintains a double identity by way of a day/night cycle of use. It is both a truck stop exit off of Interstate 59 and a Gymnasium by day. Making the building a series of thickened walls, the project takes on a billboard like quality which camouflages itself amongst the signage of the interstate.

- Model IV
- 2 Site study
- 3 Site study
- 4 Wall section study
- 5 Fenestration detail





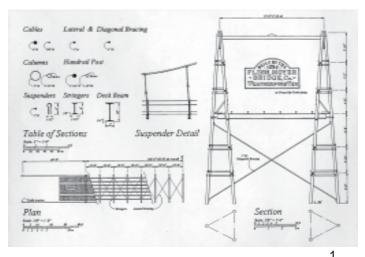
Interstate 59: Exit 66

1	Study model I	4	Site plan
2	Study model II	5	Elevations
3	Study model III	6	Wall section

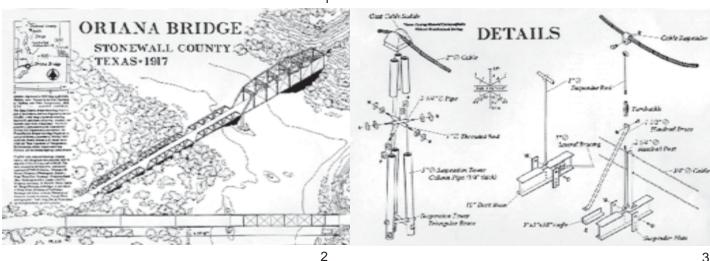


HABS/HAER Bridge Internship

Beveridge Bridge, Texas 1
Oriana Bridge, Texas 2
San Saba Bridge, Texas 3



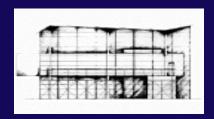
- Beveridge Bridge elevation and components
- 2 Oriana Bridge axonometric view San Saba Bridge exploded
- axonometric of connection details



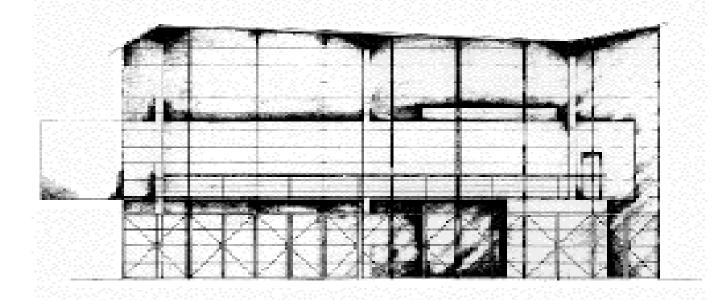
Historic American Engineering Record

Austin, Texas Summer 1995 National Park Service

Summer internship with HABS/HAER spent documenting six nationally historic bridges in Texas in collaboration with the Texas Department of Transportation. Each drawing was executed in ink on mylar and submitted for permanent record in the U.S. National Archives.



Rice University Second Year Firehouse Studio 1



Firehouse Studio
Fall 1995
Professors Guthrie and Wittenberg

The program called for a prototype firehouse in Houston, Texas. The concept was to create a dialog between several metal shed boxes within a glass box within a larger chain-link superstructure. The ultimate effect was a series of conditions of interiority and exteriority. The entire ground level is composed of operable doors which when open create a blurring of the building's periphery. Light and shadow plays through layers of filtration. Form is made poetically visible through the juxtaposition of strong, simple volumes.



Rice University First Year Toy Project 1
Motorcycle Museum 2



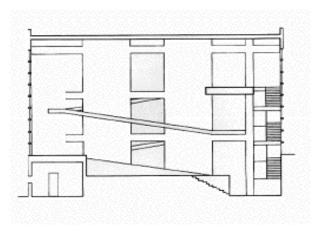


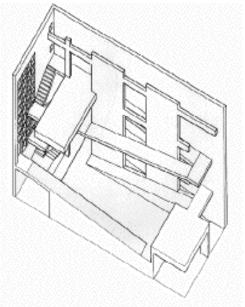
Set of primary-colored basswood building blocks and aluminum connector pieces, including hand-drawn instructions for building suggestions and possible configurations.

1

First Year Studio

- 1 Kit of Parts block set
- 2 South museum elevation
- 3 Axoonmetric of wall and ramp system





Motorcyle Studio
Fall 1994
Professors Samuels and Grenader

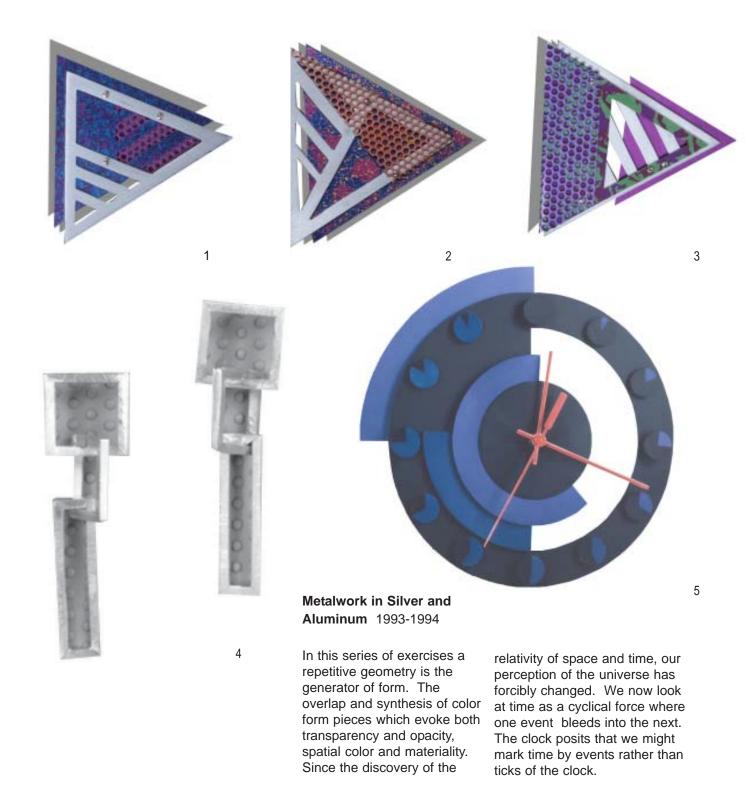
The task of the project was to create a museum to house an enthusiast's vast collection of motorcycles and memorabilia, with the added stipulation that the bikes be capable of being wheeled in via ramp. In this solution the ramp literally becomes the vehicle for transport and for display, a drama which unfolds around the device of a pierced screen wall.

2

3



misc | Selected Metalwork 1993-1994



CREDITS

SPECIAL THANKS Gretchen Raber Sarah White

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