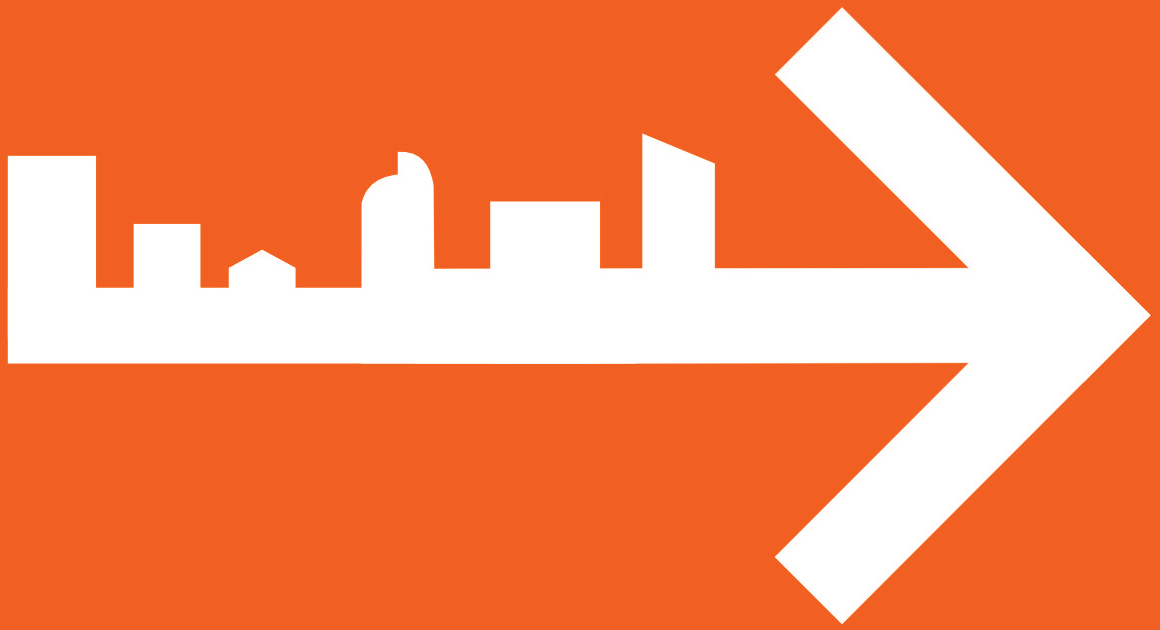


schau/n

architecture
photography
graphic design
tinkering

schawn chi ming li
denver, colorado

schau/n

portfolio

all original work
by schawn chi ming li

typeset in denver, colorado, united states
11x8.5 Carta

https://schawn.info/

1992 → 2010 → 2018
Hong Kong — Los Angeles — Denver

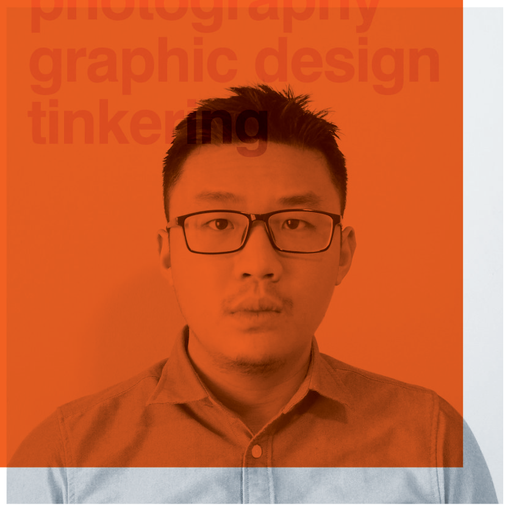
Hi there! I'm Schawn. Thanks for reading my portfolio.

I have graduated from the B.S.Arch program from University of Colorado in Fall 2020.

Architecture and has always been a passion in my life. I believe that the profession is more than just about buildings. Architecture is about solving problems in the daily lives of humans. The same prinicples of designs can be applied to many other industries because architecture is, at its core, human-centered design.

Oh besides, I am also into graphic design, metaphysics, woodworking, and tinkering with electronics and more.

architecture
photography
graphic design
tinkering



schawn chi ming li

schawn@outlook.com
(949) 878-8348
2391 Hudson Street, Denver, CO 80207

personal statement

architecture graduate with experience in design, research, and organize for architecture projects of various contexts. Experienced in leading, collaborating, and delegating in fast-paced work environments. Motivated and reliable with experience in customer service and operations management.

education

2018 - 2020
Outstanding Graduate in Bachelor of Science Architecture B.S.Arch
College of Architecture and Planning, University of Colorado Denver

/academic studio projects
/research various census, history, culture and urban characteristics in Denver
/explore architectural solutions in a variety of settings: Modular design, Infill, urban redevelopment
/create and modify Revit libraries of family to be used in Revit, AutoCAD and Rhino
/compile 2D and 3D construction documents using Revit and AutoCAD
/construct and render building interiors, exteriors, and site environment using Revit, Twinmotion, and V-ray
/create illustrations and graphical presentational materials using Affinity Suite and Adobe Suite

work experience

2020 - 2021
Temple Buell Diversity Fellowship intern
History Colorado
/organize and catalog historical architectural drawings for academic research and public viewing
/research historic context of architecture projects of Colorado's first Black architect John R. Henderson

2019 - 2020
Student Asistant Lab Montior
College of Architecture and Planning, University of Colorado denver
/assist and oversee daily operations in wood/ metal/ CNC workshops and laser lab
/maintain and service all machineries in workshops and labs
/communicate with students to provide aid and consultation on their academic projects
/problem-solving with students having AutoCAD and Revit issues

2015 - 2018
Assistant Manager
T.J. Lam Company - Irvine, CA
/deliver professional and efficient customer service at a fast-paced dining establishment
/coordinate and oversee daily operations

achievements

Outstanding Graduate, University of Colorado Denver, 2020
Gary G. Landin, AIA Colorado Scholarship, 2020

competitions

Tiny Library 2019
Volume Zero
/managed a collaborative project on creating an eco-friendly and cost-efficient tiny library in rural Paraguay

technical proficiencies

Autodesk AutoCAD
Autodesk Revit
Rhinoceros
QGIS
V-ray
Twinmotion Rendering
DaVinci Resolve
Affinity (Photo, Designer, Publisher),
Adobe Suite (Photoshop, Illustrator, InDesign)
Microsoft Office Suite, Teams,
Apple Suite

languages

english
cantonese
mandarin
german (intermediate)

references

references available upon request

Architecture is an integral part of humanity. Architecture is more than just forms, shapes, and masses. Architecture is a solution to how human activities can be carried out efficiently and effectively. It is a philosophical exploration that is strongly tied to human civilization.

Architecture is eternal, at least to a point that it can transcend generations and millennia. Architecture should inflect and reflect upon the ever-changing world of humanity. Architecture should not be solely focused on seeking compositional and aesthetical perfection, but also the meaning, the reasoning, and the resolution behind the humanly functions inside such building.

Architecture is also a looking glass that allows us to ponder upon layers of human history. Architecture is about building vessels that contains the knowledge and history of human civilization. Architecture as a study, and architects as a profession should be finding new languages and new thoughts as to how buildings and structure can be more interconnected and integrated to the ever-changing human world.

Many contemporary architectural styles are lacking in terms of their execution. They are lacking in creating a synchronicity between their design languages and the philosophical reasonings that should relate to human activities.

It is far too common to see contemporary buildings being plopped into old neighborhoods and old town centers for the sake of being edgy and revolutionary. It is difficult to create buildings that stand out and blend in to its surroundings at the same time, while also being able to accomplish with what it was set out to achieve.

It is only through a deep understanding of the ever-binding relationship between Architecture and humanity, we can seek creating structures that conform and reflect to our existence as a species.

directory

architecture	denver infill modularity urban redevelopment
graphicdesign	postingposters
photography	geometry rust dream and americana
tinkering	væskerbentjent shed

architecture

architecture is a solution to how human activities can be carried out effectively and efficiently

denver

denver through mapping

infill

layeur at cranmer

modularity

rückstoß

tamarix

urban redevelopment

school of colfax

national aerospatial research library

denver

denver through mapping, 2019 - 2020

every project begins with data and research through maps

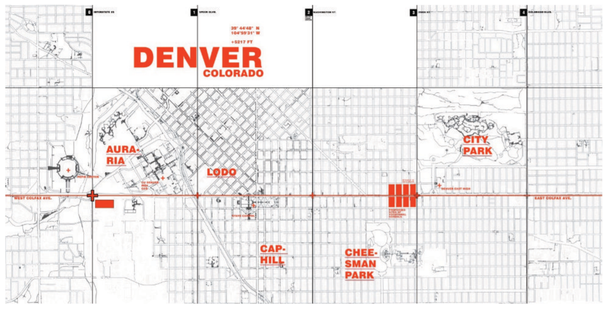
QGIS
Affinity Designer

Analysing and understanding denver

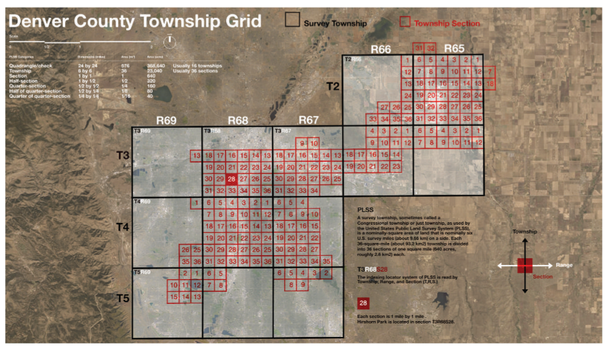
How site context would play and influence decisions making in architectural designs?

The historical reasoning behind different zonings, neighborhoods

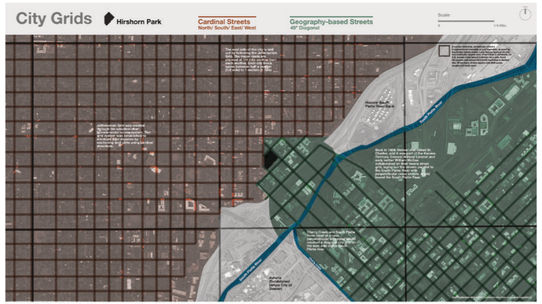
How city planning influenced the history and culture of denver



Denver Map

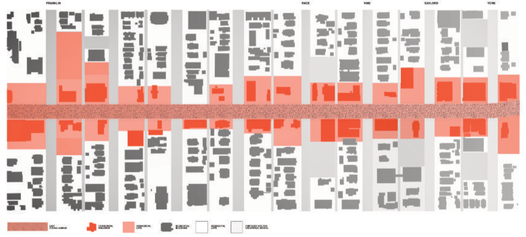


Denver Country PLSS Township Map

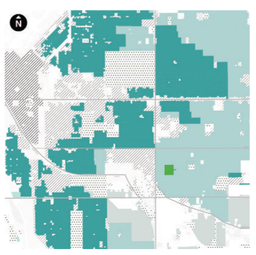


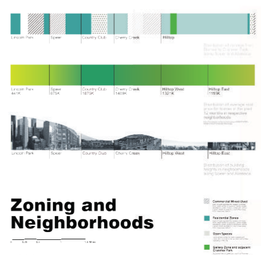
Denver City Grid Map
Lo-Hi Walkability Map

Landmarks along East Colfax



Landmarks along Colfax Avenue
Typology along Colfax Avenue





A collection of Denver Maps, from Colfax to Lo-Hi, and beyond.

Denver Zoning and Neighborhoods Map
Renewals along Colfax Avenue

infill

layeur at cranmer, 2019

An infill development in a residential neighborhood in close proximity to an open green space

QGIS
Autodesk Revit
Autodesk Autocad
Rhinoceros
Affinity Designer

Mark Bradford is a **layeur**.

His artworks are mirrors of truth that **reflects** the modern society, of its problems, tragedies, and **darkness** bradford did it with the way of layering. The **layering** of materials to create artwork.

Truths and facts are always hidden under layers of lies and deceptions. It is only through **investigations** and **discussions** we can understand the problems we have as humans and seek **enlightenment** and **ascension** as a better species.

And this museum vows to be the protector of mark bradford's artwork and vision.

MARK BRADFORD

(B. 1961)

Mark Bradford is a mixed-media artist from Los Angeles. His artworks feature layers and collages of billboards, flyers and graffiti stencils. Bradford's collages are investigations and reflections into various societal issues that are deep-rooted in the modern day America. Immense, immersive, and colorful murals of Bradford's work are impresive monuments of modern day art.

LAYEUR

MARK BRADFORD GALLERY

MARK BRADFORD

(B. 1961)

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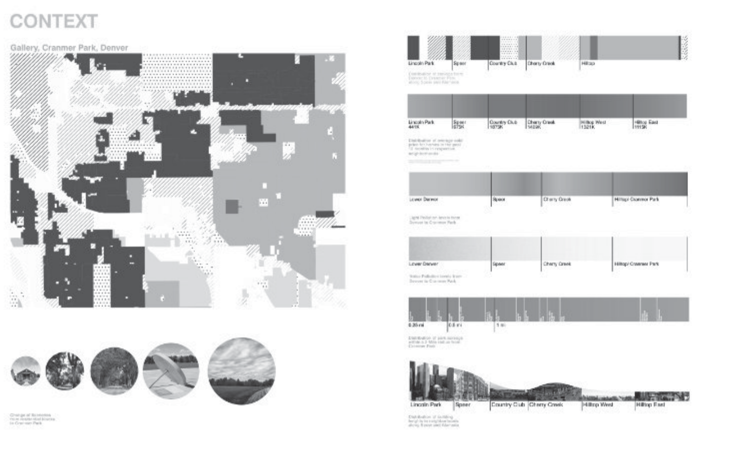
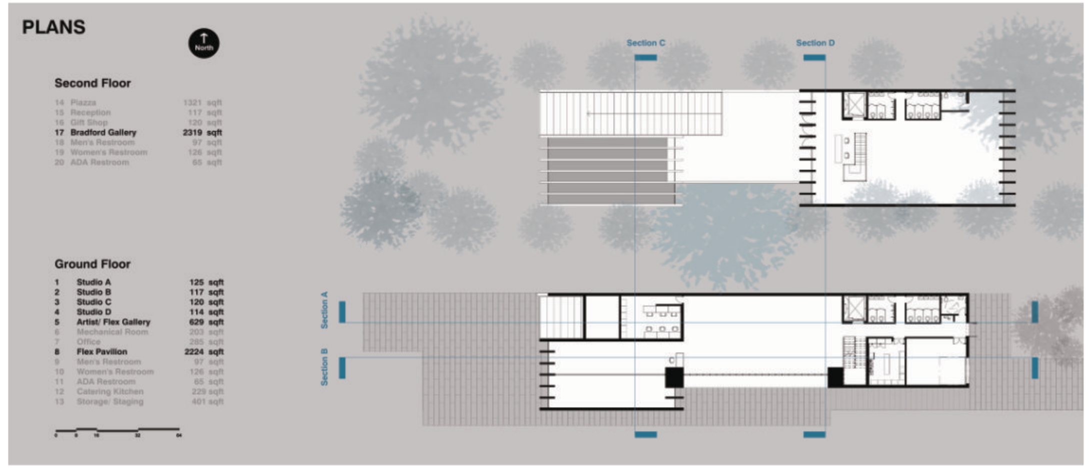


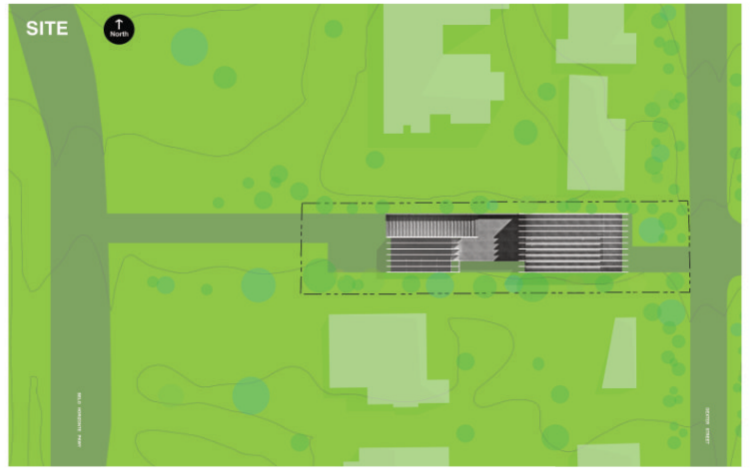


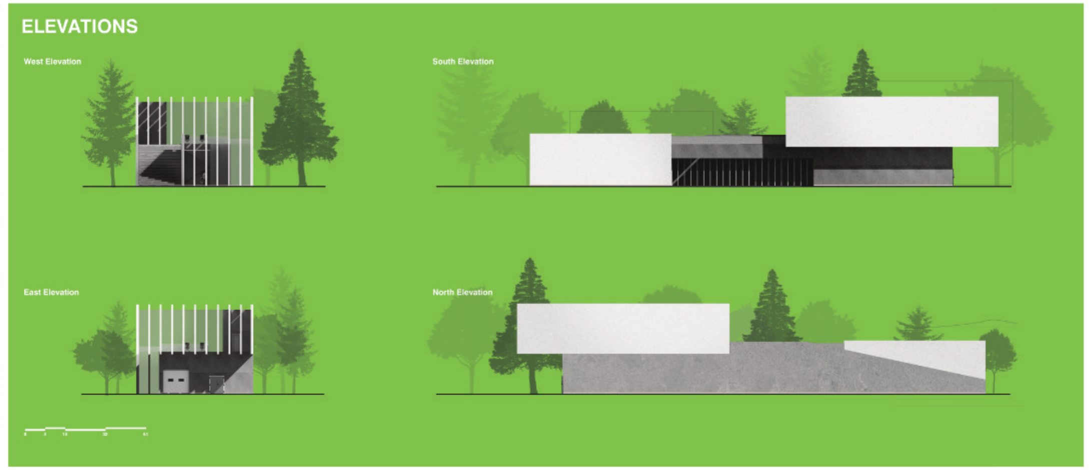
MARK BRADFORD IS A LAYEUR.

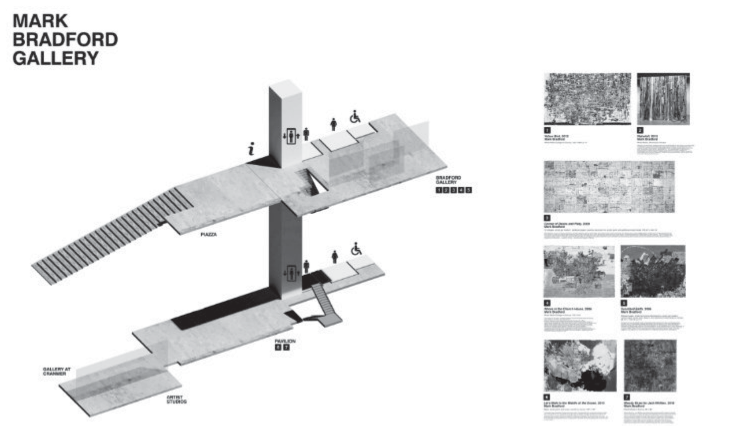
HIS ARTWORKS ARE MIRRORS OF TRUTH THAT REFLECTS THE MODERN SOCIETY, OF ITS PROBLEMS, TRAGEDIES, AND DARKNESS BRADFORD DID IT WITH THE WAY OF LAYERING. THE LAYERING OF MATERIALS TO CREATE ARTWORK.

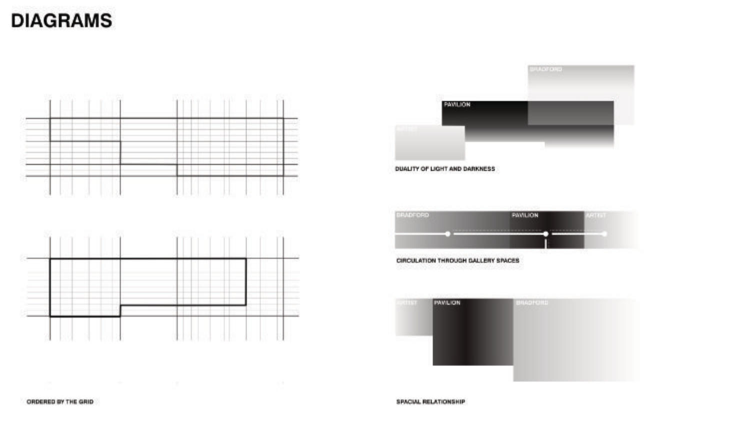
TRUTHS AND FACTS ARE ALWAYS HIDDEN UNDER LAYERS OF LIES AND DECEPTIONS. IT IS ONLY THROUGH INVESTIGATIONS AND DISCUSSIONS WE CAN UNDERSTAND THE PROBLEMS WE HAVE AS HUMANS AND SEEK ENLIGHTMENT AND ASCENSION AS A BETTER SPECIES.

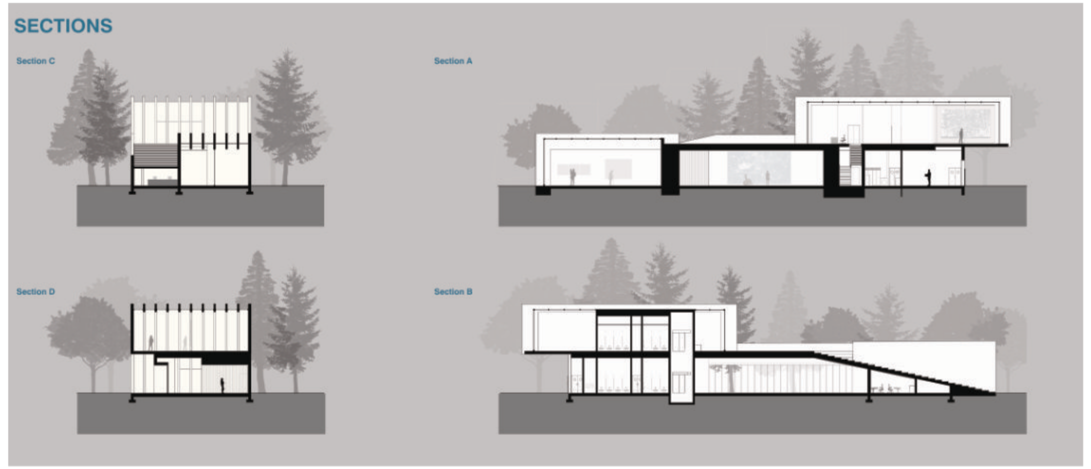
AND THIS MUSEUM VOWS TO BE THE PROTECTOR OF MARK BRADFORD'S ARTWORK AND VISION.

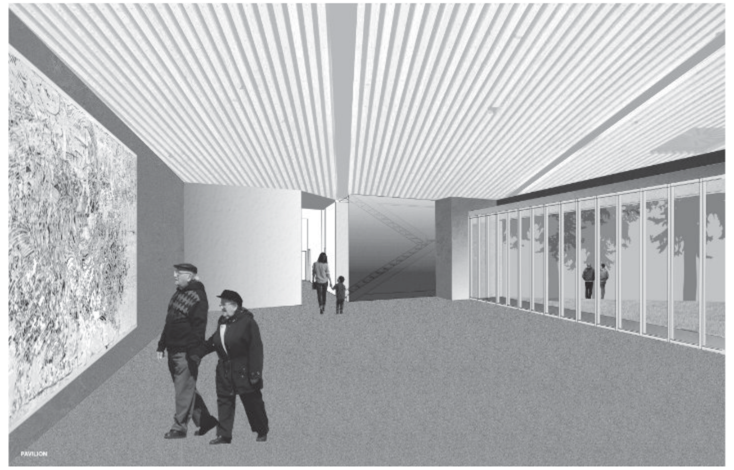








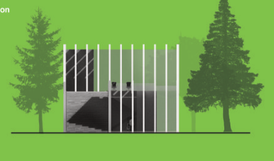




All presentation boards

ELEVATIONS

West Elevation



South Elevation

East Elevation

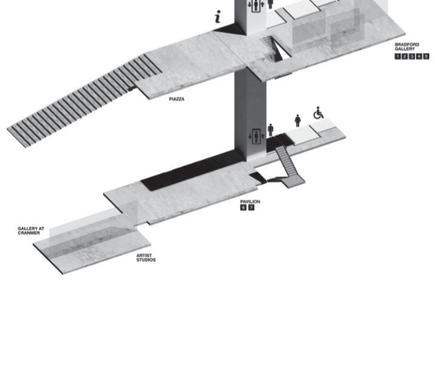
North Elevation

0 8 16 32 64

SITE

North

MARK BRADFORD GALLERY



PLANS

North

Second Floor

14	Piazza	1321	sqft
15	Reception	117	sqft
16	Gift Shop	139	sqft
17	**Bradford Gallery**	**2319**	**sqft**
18	Men's Restroom	97	sqft
19	Women's Restroom	126	sqft
20	ADA Restroom	65	sqft

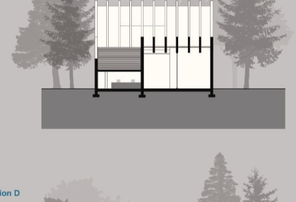
Ground Floor

1	**Studio A**	**125**	**sqft**
2	**Studio B**	**117**	**sqft**
3	**Studio C**	**120**	**sqft**
4	**Studio D**	**114**	**sqft**
5	**Artist/ Flex Gallery**	**629**	**sqft**
6	Mechanical Room	203	sqft
7	Office	285	sqft
8	**Flex Pavilion**	**2224**	**sqft**
9	Men's Restroom	97	sqft
10	Women's Restroom	126	sqft
11	ADA Restroom	65	sqft
12	Catering Kitchen	229	sqft
13	Storage/ Staging	401	sqft

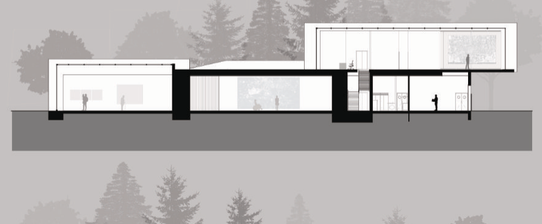
0 8 16 32 64

SECTIONS

Section C



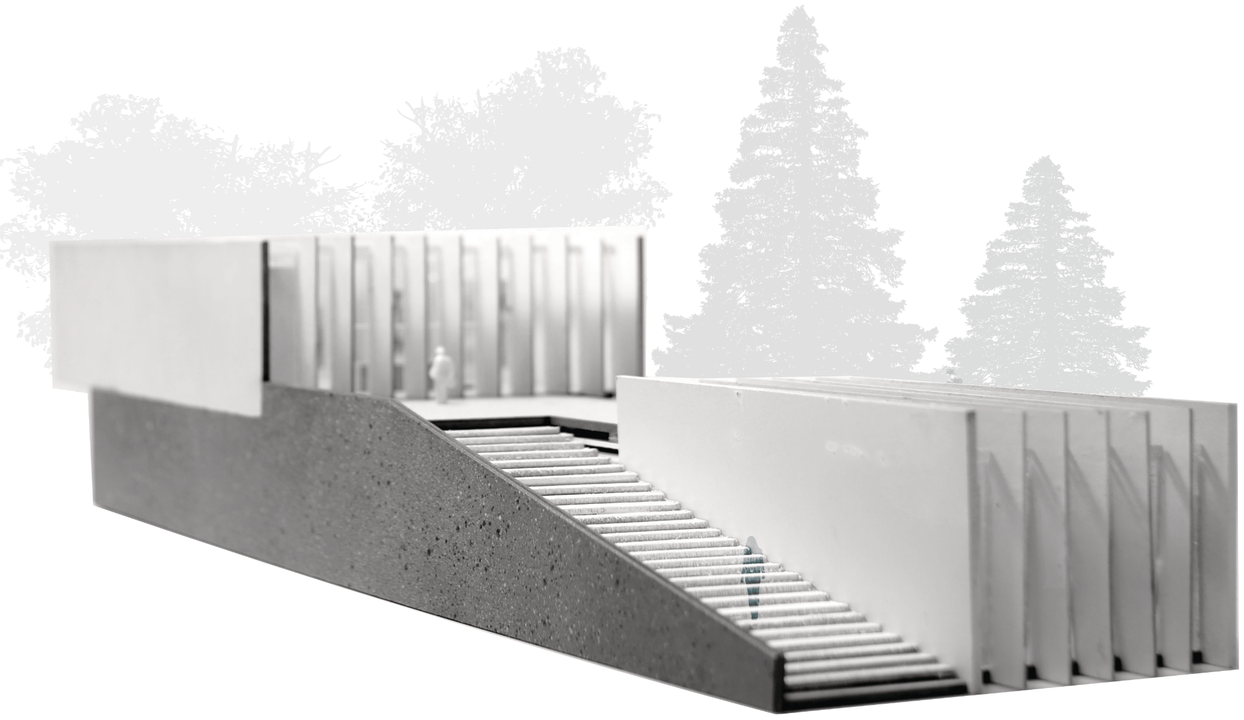
Section A



Section D

Section B

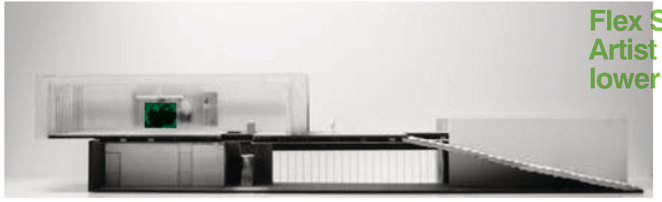
Building orthographics

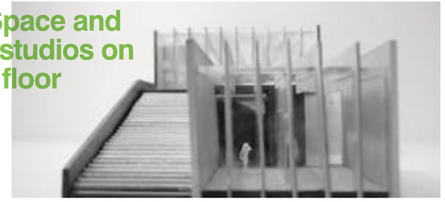


1" = 8' - 0" structural building model

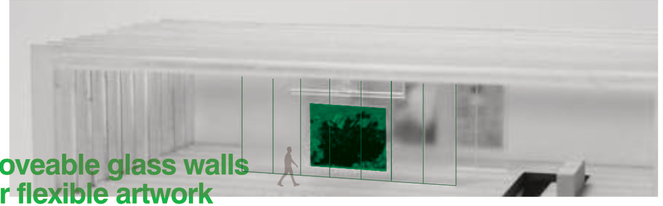
Public Amphitheater on stairway to Main Gallery

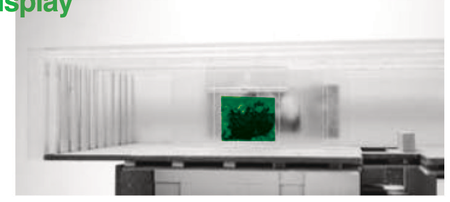
Flex Space and Artist studios on lower floor

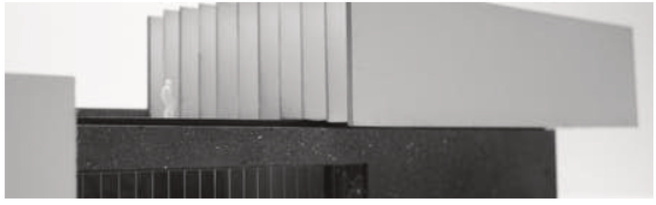




Moveable glass walls for flexible artwork display







1" = 8' - 0" structural building model

Project building on site

1" = 32' - 0" model on site

1" = 8' - 0" structural building model

modularity

rückstoß, 2018

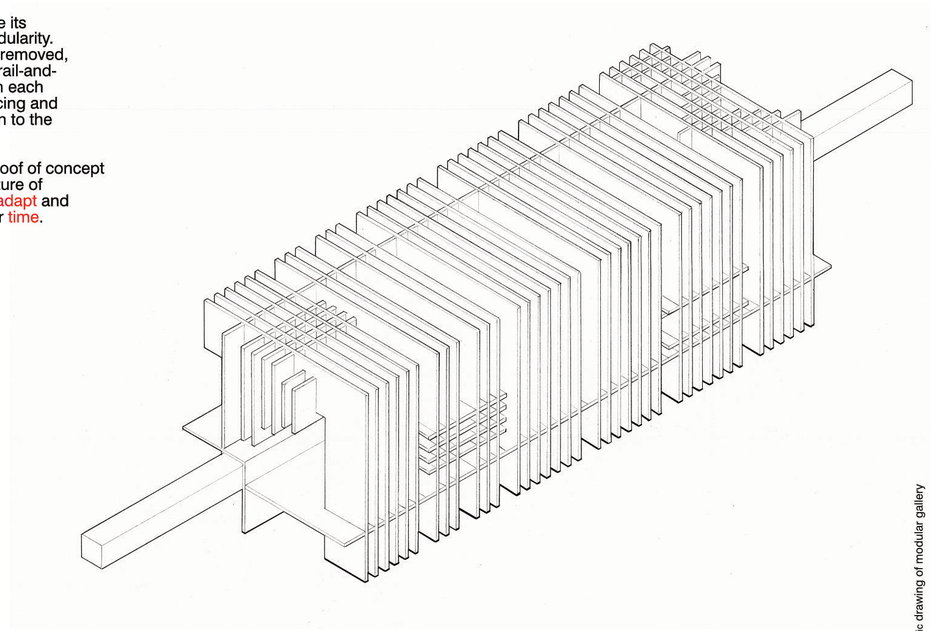
modularity should be the future of architecture, in which commonality is king, with all components easily removed and replaced

Rhinoceros
Hand-drafting

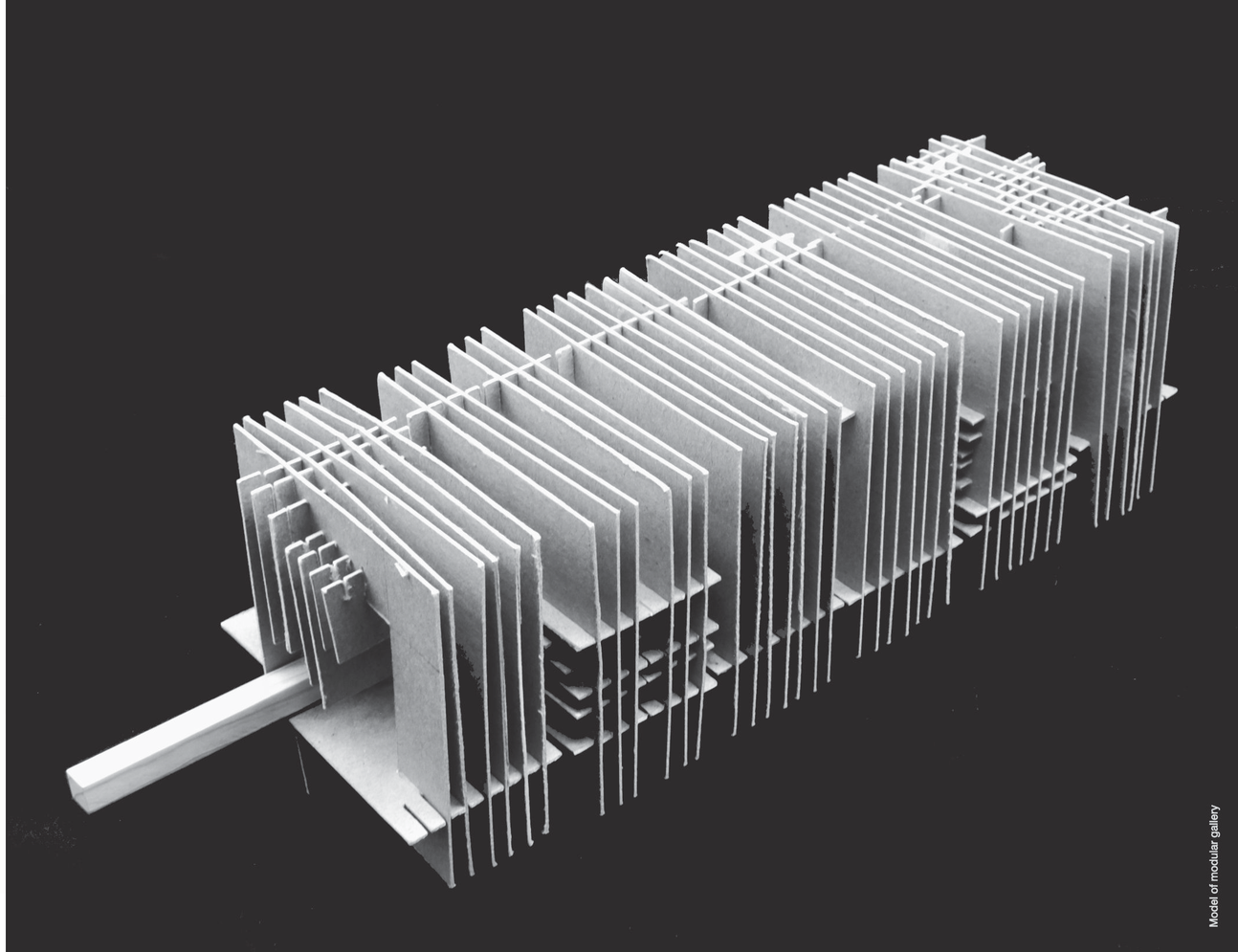
Modularity should be about flexibility and expandability. Each module within a modular building should share a commonality and standard that parts and components can be easily replaceable and removeable.

Rückstoß is an experimentation in terms of how a building can be designed to maximize its flexibility and customizability through its modularity. Each of the modules in this building can be removed, rearranged, and replaced with the aid of its rail-and-hook system in its joinery. The spaces within each module can also be modified through replacing and rearranging all the panels that are latched on to the walls and columns.

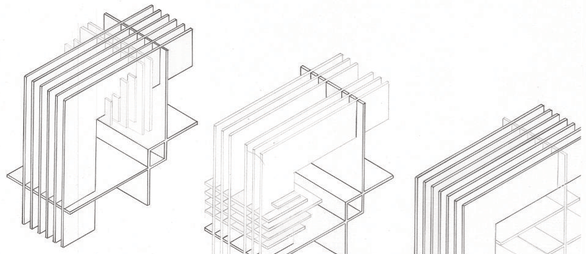
The flexibility of this modular building is a proof of concept in terms of how modularity should be the future of architecture, by creating buildings that can adapt and cater to changes and needs of its users over time.

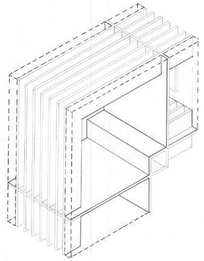


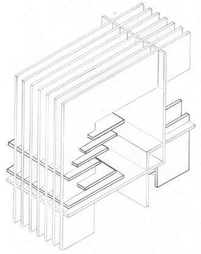
Isometric drawing of modular gallery

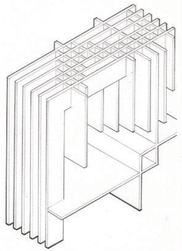


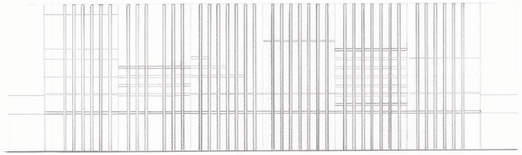
Model of modular gallery

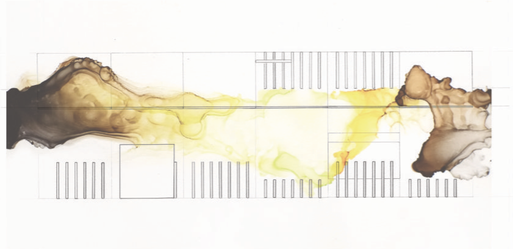




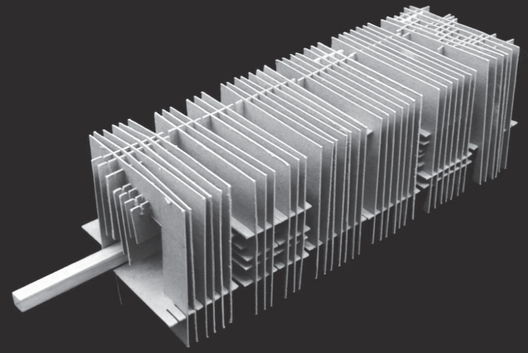


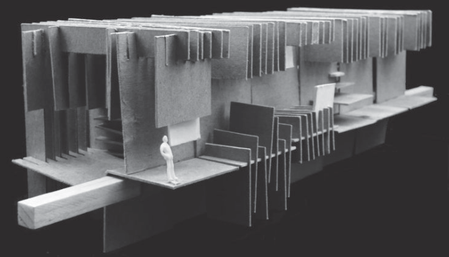


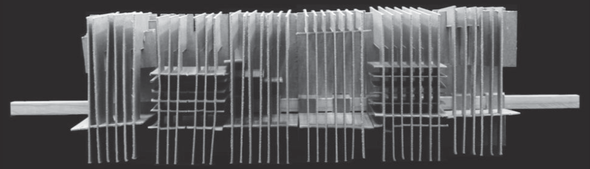


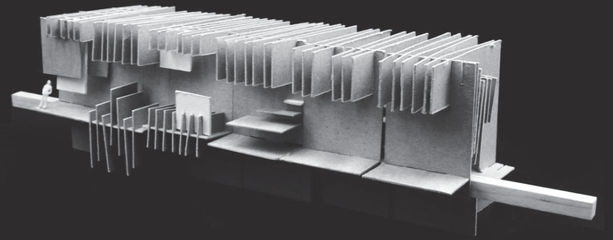


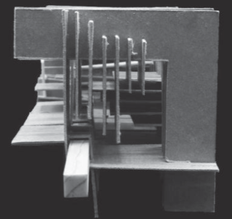
Exploded isometric and orthographic drawings of modular gallery

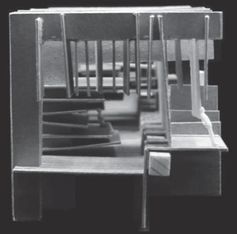












Model of modular gallery

modularity

tamarix, 2018

a modular ecologically-conscious bird observatory tower in the wetlands of Abu Dhabi

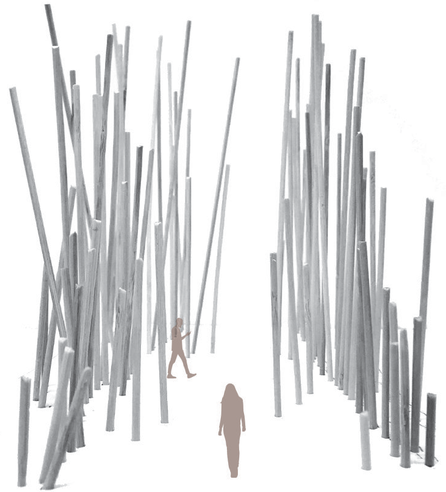
Rhinoceros
Hand-drafting

It is extremely easy to build a tower and put it on any part of the world and it would work well, but it is difficult to build a tower that would cohere to the context, history, and conditions of its site.

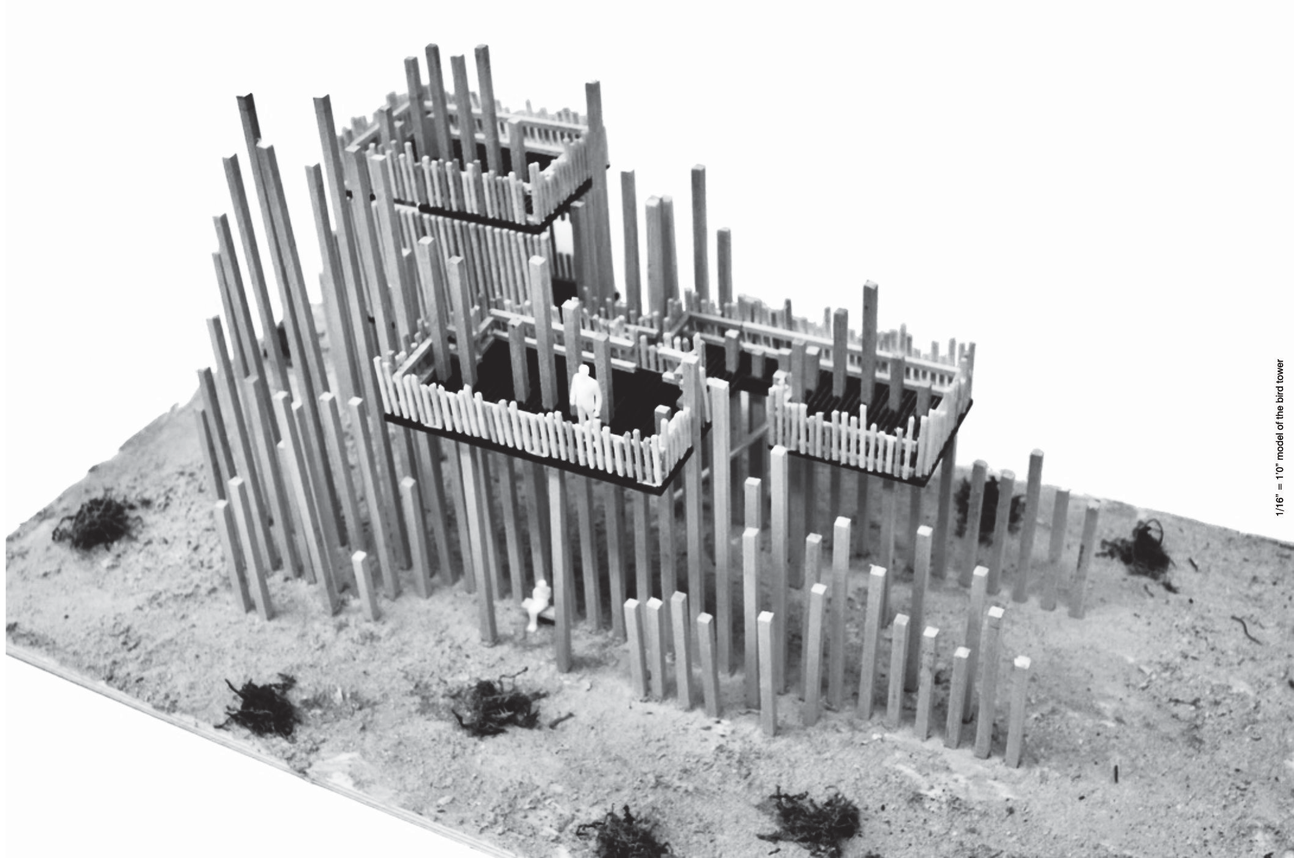
Tamarix is a solution to the AL Wathba Wetland Reserve. The shape and form of the observation tower takes account into the shapes and forms of the native plants in the region (i.e., Salt water cedar and aquatic reed.) It is a tower that blends in rather than sticks out in the reserve site.

The tower is designed with the philosophy of minimizing disturbance and intrusion to the natural environment caused by visitors. The post and column façade of the building provides flexibility and modularity for easy replacement and future expansion if needed.

The material used in this building also accounts for easy repairability and environmental-friendly ideologies of using European pallet boards as its main constructing component.



Building design for the bird tower



1/16" = 1'0" model of the bird tower

Building design for the bird tower

1/16" = 1'0" model of the bird tower

urban redevelopment

school of colfax, 2020

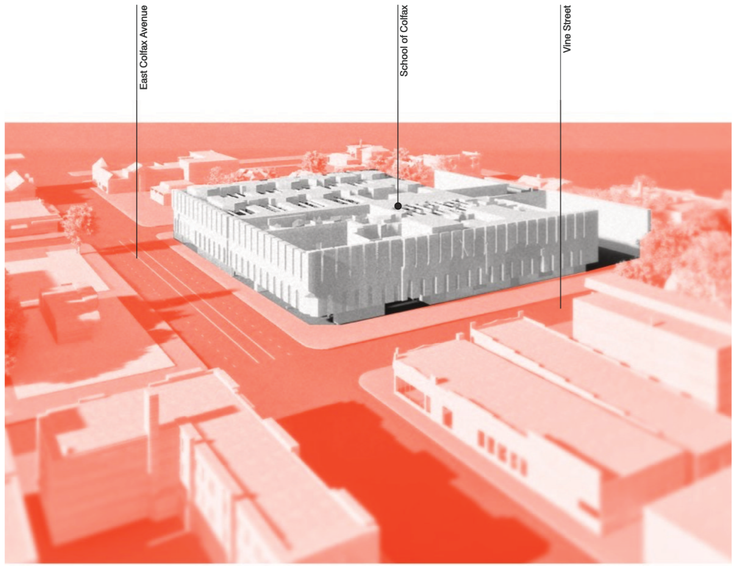
a vocational school on east colfax avenue

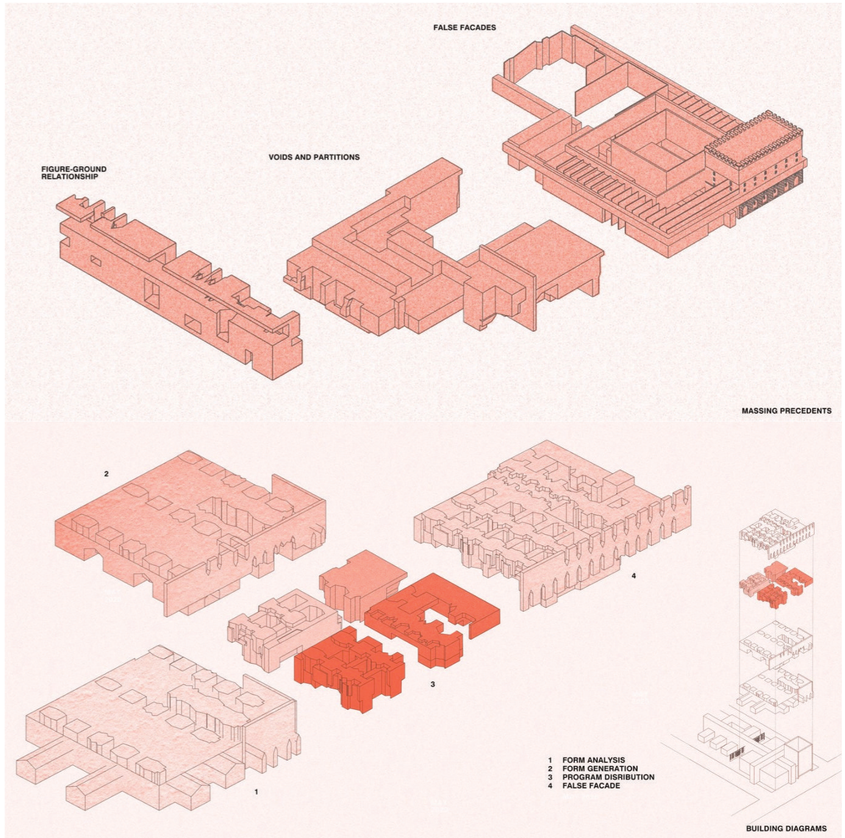
Autodesk Autocad
Autodesk Revit
Rhinoceros
Twinmotion
Affinity Designer
Affinity Publisher

the school of colfax is a collaboration project with sulaima salim and stephan suedmeyer in research of a vocational school that is contextually suitable and sustainable with the history and fabric of east colfax avenue in denver colorado.

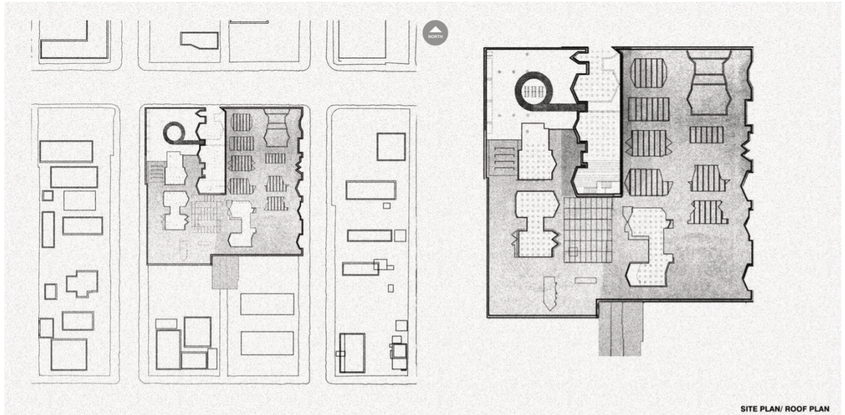
the school is designed in the aim of providing a democratic environment to students in the vicinity of denver to learn the artistries in auto-tuning culinary arts and glass-making. the school is designed in the image and reflection of east colfax avenue and its neighborhoods.

the school's image is a compilation of forms and shapes along east colfax avenue and recompiled into a massive structure that would regenerate as colfax avenue progresses through time. and this school is a testament of the wild gritty and indomitable nature of east colfax avenue the longest commercial street in the united states of america.

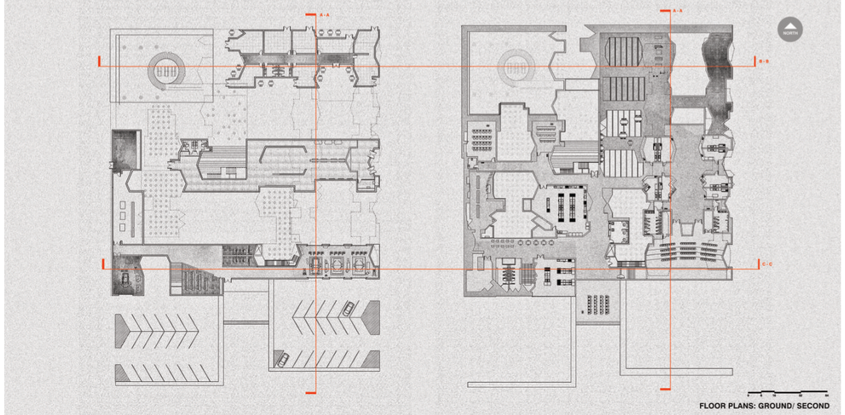




Diagrams of the collaborative building design

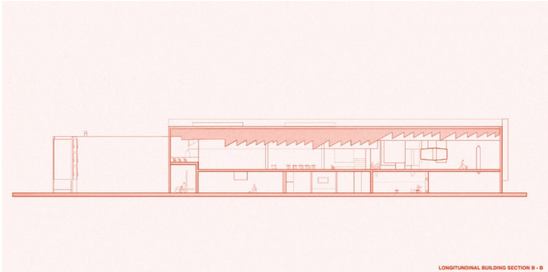


SITE PLAN/ ROOF PLAN



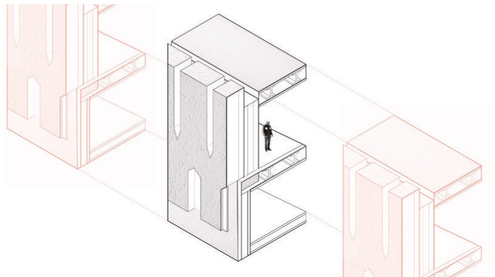
FLOOR PLANS: GROUND/ SECOND

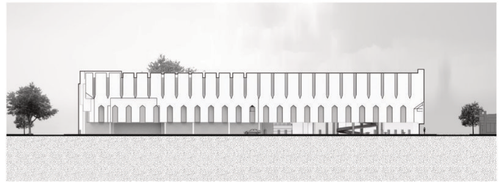
Site plan and floor plansl for School of Colfax



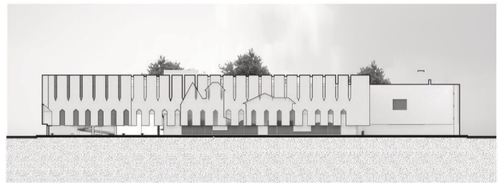
LONGITUNDINAL BUILDING SECTION B - B

NORTH BUILDING SECTION C - C

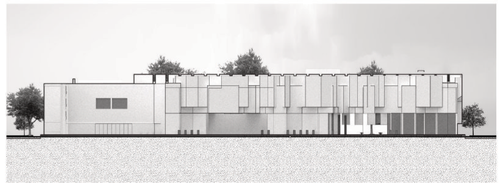




NORTH ELEVATION



WEST ELEVATION



EAST ELEVATION

Sections, elevations, and exposed structural model for School of Colfax

3 vocations 1 school

GLASS MAKING

The glass making facet features a custom built multi-level kiln for annealing glass. Cold working facilities are also offered for smaller sized projects.

KNEADING

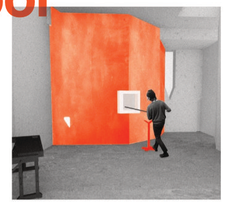
Glass has a high melting point and is very hard to work. Hand tools were needed as the material was heated up to 1000 degrees and molded into various shapes and forms.

BLOWING

Blowing and shaping glass can take 10 years. Recently glassmaker Dale Chihuly developed a new glass-making method was that he described as "simultaneous blow out moving lip".

KILNS

Students will test and fuse Cristacos in the glass manufacturing studio in order to understand the shapes of different kiln tip.



GLASS MAKING STUDIO

ISLANDS

Individual working islands equipped with gas burners, sinks and electrical outlets to create kitchen of various kitchens and ideas

CULINARY STUDIOS A/ B

CULINARY ARTS

In close proximity to the kitchen restaurants and learning areas for the culinary arts students, the culinary arts studio and chefs den kitchens attempts to feel and the look of a real kitchen. Students will learn in all classes and culture pots in various aspects in culinary arts.

FINE CUISINES

Fine cuisines are similar to the culinary arts studio but with more emphasis on food styling and serving experience. Full culinary kitchens are provided for the students to learn and practice various forms of fine cooking.

DESSERTERY

Dessertery is classes and studio courses that mainly or largely it concentrate on the art of Dessertery techniques. Dessertery is the art of making and serving (though) chocolate, sweets and scrumptious desserts.

AUTO-TUNING

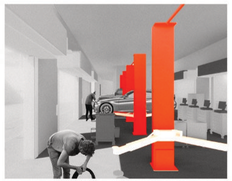
Electronic engines make up many of the car it produces. Bits of a computer system to control the engine and the way it runs and tuning. New electronics are of benefit to the car owner and are also useful as working with unconstruct vehicles.

TUNING UP

One of the instructors specialises in tuning cars and the partnership is a beacon now.

MODDING

Most of the students have bought cars to modify and customise. Students will learn how to customise and modify cars from various manufacturers.

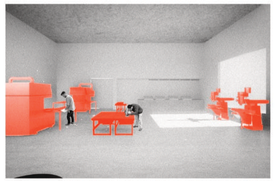


GARAGE

Multiple work stations and lifts are provided for cars of different sizes. Polished concrete flooring is installed to provide an even and safe work area and ample lighting.

METAL WORKSHOP

Metal working offers students the chance to manufacture by hand or machine. Students can be involved in the process of manufacturing parts for projects.



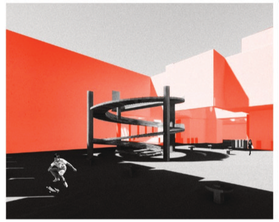
AUTO GARAGE/ METAL WORKSHOP

Programs provided by School of Colfax

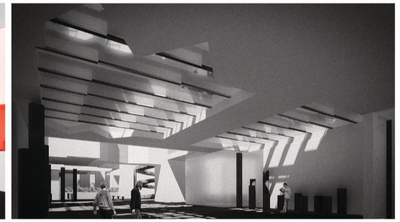
IMPRESSIONS OF VICTORIAN HOMES ON BUILDING FACADE

BATTLEMENT

EAST BUILDING ENTRANCE

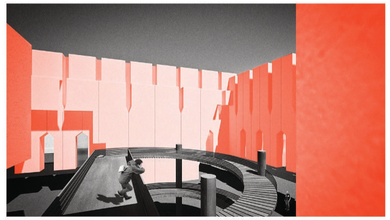


MASS WALLS IN COURTYARD

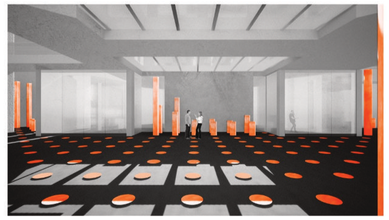


GLASS LIGHT WELLS IN PORTICO

TRANSPARENCY/ OPACITY



DESCENSION INTO COURTYARD



FLOOR OF BOLLARDS

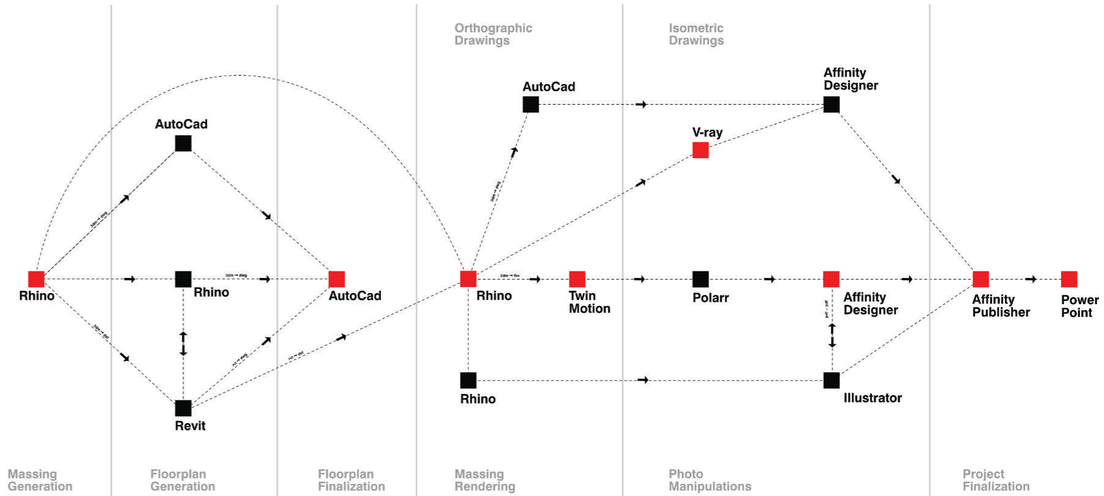
CURTAIN WALL SYSTEM

Renderings of School of Colfax

A marketplace that provides entrepreneurial training and opportunities to graduates

COLFAX MARKET

Colfax Market in School of Colfax



Group collaboration during coronavirus pandemic

Design workflow for the design project

urban redevelopment

national aerospatial research library, 2020

a library built for the future with public-private partnerships and innovative technologies

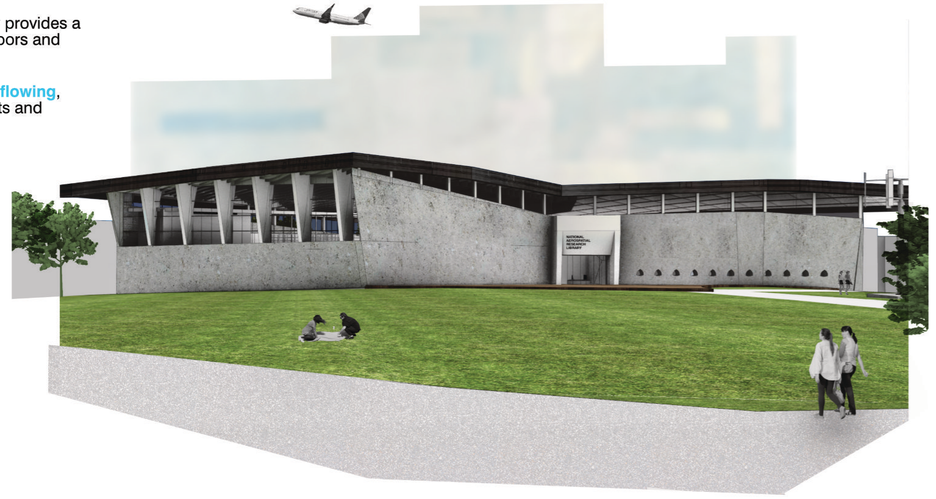
Autodesk Revit
Rhinoceros
Affinity Designer
Affinity Publisher

National Aerospatial Research Library (NARL) focuses on providing knowledge and research in the realm of **aerospace** and **aeronautics** through traditional and innovative mediums.

Colorado has always been an important place for the development of aerospace research since its conception, with many Coloradan companies providing expertise and research to countries around the **world**.

Situated at the hesrt of **Lo-Hi**, the library provides a vast outdoor public space for our neighbors and patrons to **gather** and **socialize**.

The indoor spaces within NARL are **freeflowing**, **flexible**, and **adaptable** to various events and occupancies as needed.



Exterior perspective of national aerospatial research library

NARL

Lockheed Martin Spacecraft — Eurocopter — Boom Overture

Why Aerospace?

Aerospace is one of the largest manufacturing sector in Colorado

A library dedicated to provide achives and research support to aerospace technologies

Some of the largest Aerospace employers in Colorado

Ball Aerospace
Boeing
Boom Supersonic
Jeppesen
Lockheed Martin
NORAD
Northrup Grumman
Raytheon
Sierra Nevada Corp.
USAF

Aerospace in Colorado

$15.4 Billion Economic Impact statewide

180+ Aerospace firms

190,000 Indirect Jobs

500+ firms providing specialized supplies and services

4.7% Revenue growth

Data collected from:
https://choosecolorado.com/key-industries/aerospace/

Colorado Heritage

Jeppesen Aerospace is one of the world's largest provider in Aeronautical maps and aircraft manuals.

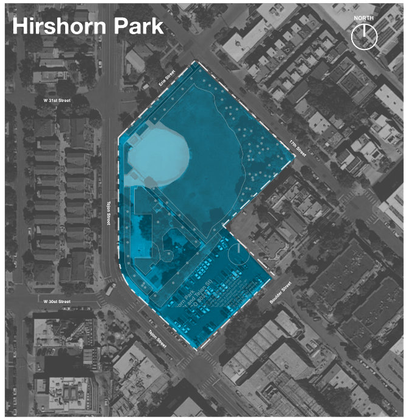
The company has been based in Colorado since 1941, and pioneered many equipments and technology in providing safer air transportation to the general public.

Data collected from:
https://ww2.jeppesen.com/about-us/

A Library built on the strength and expertise of our partners
With state-of-the-art digital archival technologies to provide open access to the public
Fostering partnerships and collaborations between the key playing in the aerospace industry

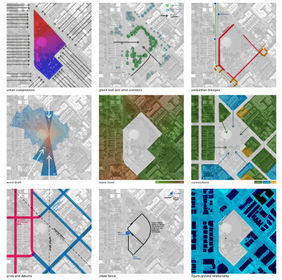
JEPPESEN · BOEING · NASA · Ball Aerospace & Technologies Corp. · BOOM · LOCKHEED MARTIN · DASSAULT SYSTEMES · IBM · IBM Watson · Hewlett Packard Enterprise

Background for the design project



Hirshorn Park
(16th St and Tejon St)
Denver, CO 80211

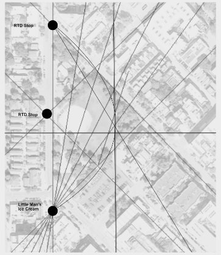
Hirshorn Park is an oasis in the middle of the very hot Lohi neighborhood. The park is surrounded by roads and does not connect any direction, putting up new lofts and apartment projects. But in the park - which has a playground and basketball court - it is a completely different world, with nature escapes from all the frenzied development. The fenced-in ballpark even allows dogs to roam free off the leash, making it a hot spot for dog owners. Residents go grab a drink, or one exercise. And as a reward, they can then run over to Little Man Ice Cream, right across the street.



Site analysis

Identifying the best orientation and place for the library building through analyzing the special characteristics and typology of Hirshorn Park

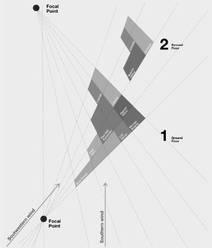
Development + Morphology



Site formal strategy

Focal points at high traffic locations:
Little Man's Ice Cream and RTD Bus Stops

Datum and grid to organize the building and the park

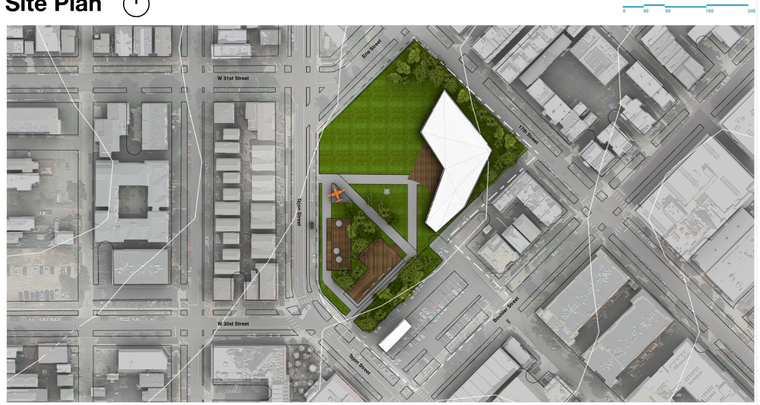


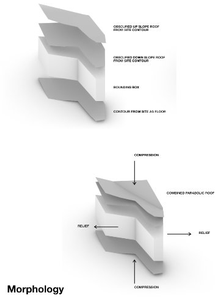
Formal developments

Lines and grids start to form spaces

Site Plan

NORTH



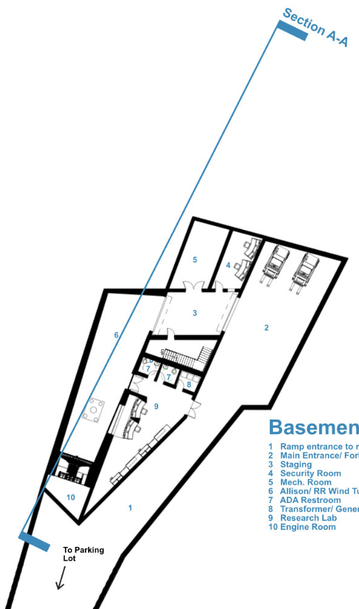


Morphology

The shape and formation of the library

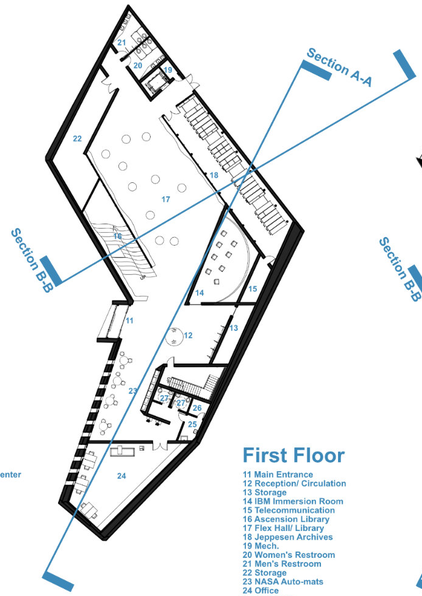
Plans

NORTH



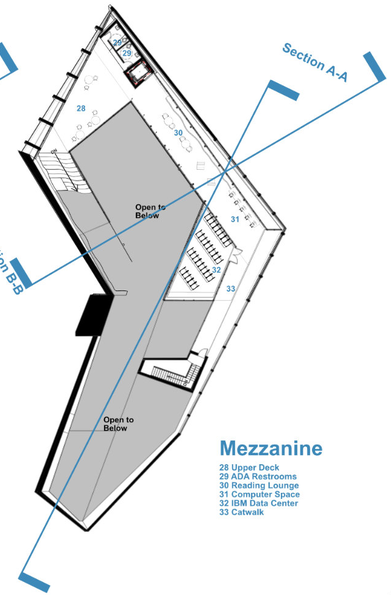
Basement

1 Ramp entrance to research center
2 Main Entrance/ Forklift Dock
3 Staging
4 Security Room
5 Mech. Room
6 Allison/ RR Wind Tunnel
7 ADA Restroom
8 Transformer/ Generator
9 Research Lab
10 Engine Room



First Floor

11 Main Entrance
12 Reception/ Circulation
13 Storage
14 IBM Immersion Room
15 Telecommunication
16 Ascension Library
17 Flex Hall/ Library
18 Jeppesen Archives
19 Mech.
20 Women's Restroom
21 Men's Restroom
22 Storage
23 NASA Auto-mats
24 Office
25 Janitorial
26 Supplies
27 ADA Restrooms



Mezzanine

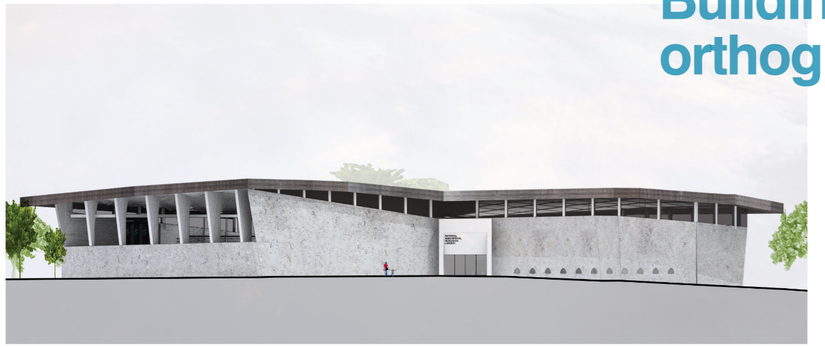
28 Upper Deck
29 ADA Restrooms
30 Reading Lounge
31 Computer Space
32 IBM Data Center
33 Catwalk

Site context for design project

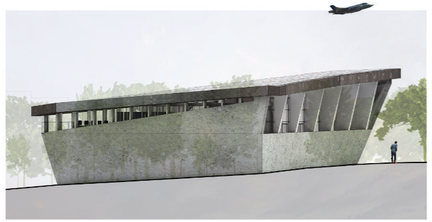
Floor plans for the library

West Elevation

Building orthographics



North Elevation

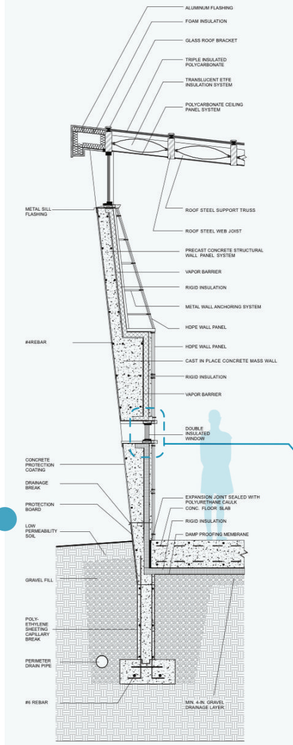


South Elevation

Building elevations of the library

Building Section A-A

Building Section B-B

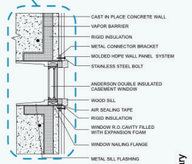


Wall Section

The wall section details the structural component of building walls used for the library. The wall section diagram details south side walls with window openings.

0 1 2 4

Detailed Window Section



Sections for the library

Building perspective of the library from southside park

Building perspective of the library at park entrance

Interior perspectives of the library

Ascension Library
Flex Hall/ IBM Data Center
Jeppessen Archives
Allison/ RR Wind Tunnel

Ascension Bookshelves
Flexibility and Scalability
NASA Automats
Allison/ RR Wind Tunnel

Upper Lounge

Interior perspectives of the library

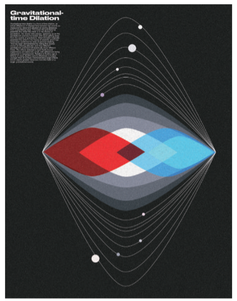
graphicdesign

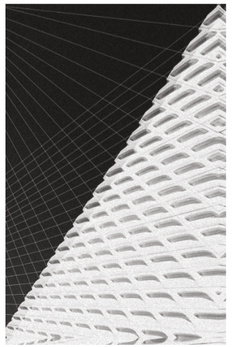
conveying messages through clean and legible graphics

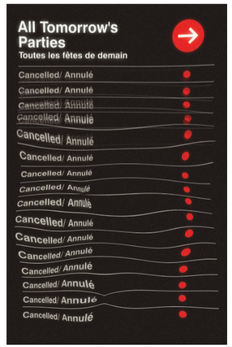
postingposters

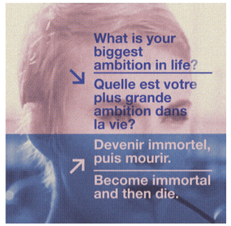
postingposters

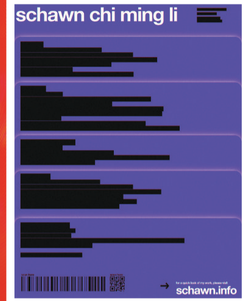
this project is a pilot experiment in gaining graphical experience and knowledge through designing graphical illustrations during coronavirus pandemic

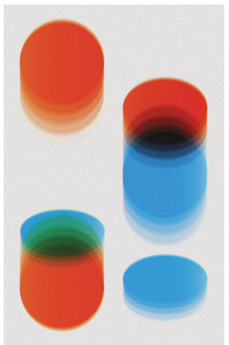


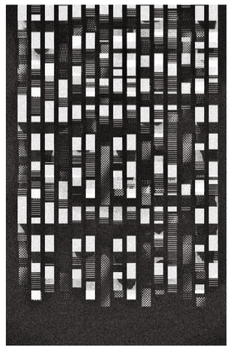


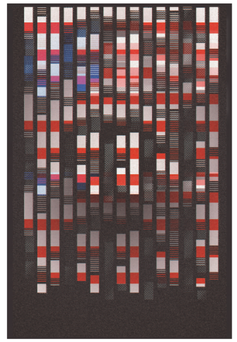
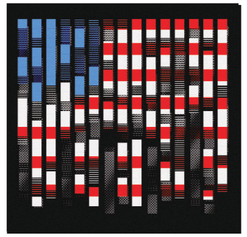
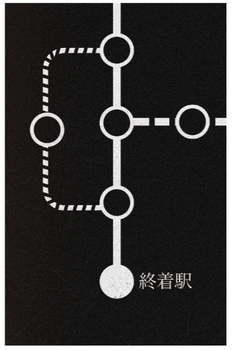








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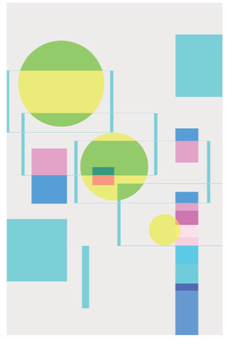
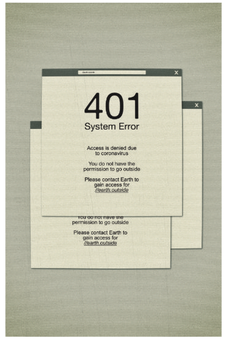
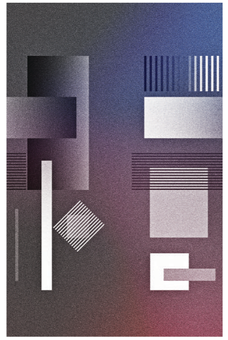
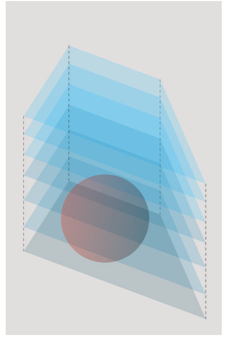
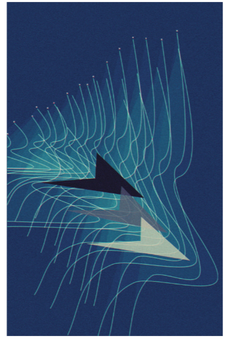
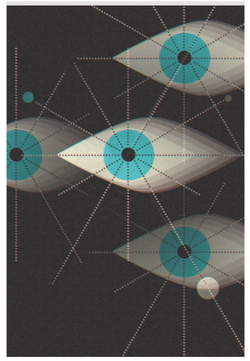
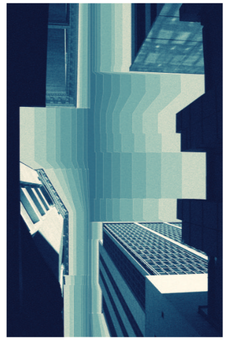
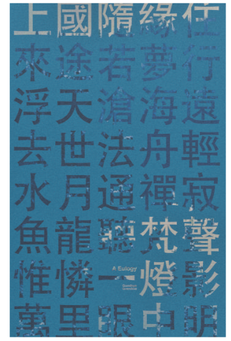
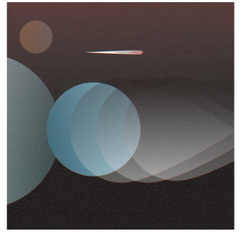
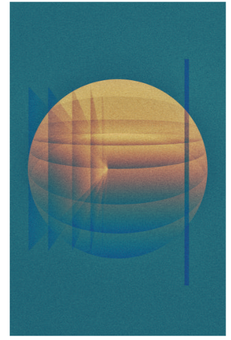



401
System Error
Access is denied due to coronavirus.
You do not have the permission to go outside
Please contact Earth to gain access for /earth.outside
Please contact Earth to gain access for /earth.outside







上國隋綠行
來途右夢仃
浮天滄海遠
去世法舟輕
水月通禪寂
魚龍聽梵聲
惟憐一燈影
寓里眼中明

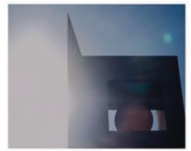


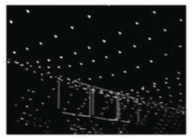


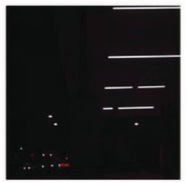
photography

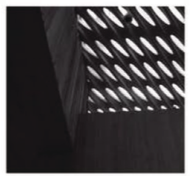
conveying messages through clean and
legible graphics

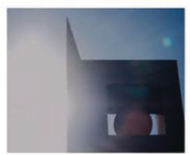
geometry **rust dream and americana**











geometry

this series of photographs were to analyze the geometries and pattern that exist in the nature and human construct. Human beings always seek meanings and reasonings behind things.

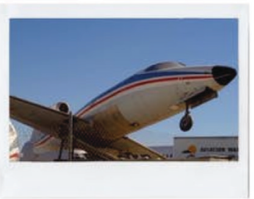
this project is to seek the meanings behind geometries without pre-determined context.

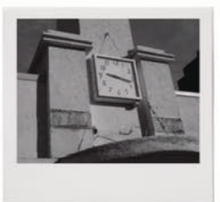
rust dream and americana

this series of photographs were to showcase the passage of time and its effect in America

the rapid urbanization and migration of the American society and population in the past century created massive changes in the landscape and sceneries across the nation

this project is to document and question what we have left in our past as we moved forward





tinkering

conveying messages through clean and
legible graphics

væskerbentjent **shed**

væskerbentjent

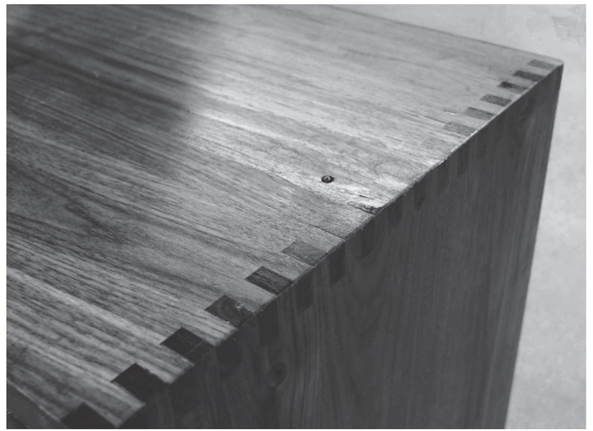
dk: liquor butler
a liquor cabinet

woodworking
rustic walnut
baltic birch plywood
39”x32”x17”

box joints
slotted joints
euro hinges’
custom lamp

natural stain
india ink
spar-urethane finish

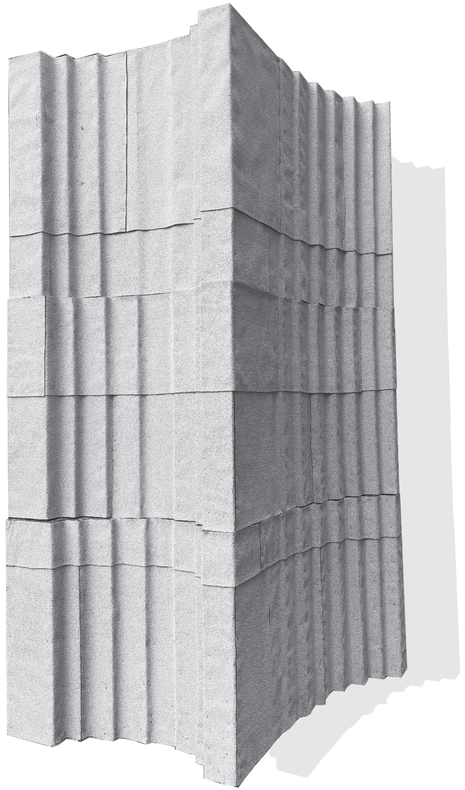
2 1/2 months



shed

An experimental research project on
construction of a shed for
Kevin Hirth, Asst Professor,
College of Architecture and Planning,
University of Colorado Denver

The project is a construction of a small shed from assembly to finishing. The shed is constructed with mechanical attachment of OSB sheathings and asphalt roofing wraps.



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my work, please visit

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architecture
photography
graphic design
tinkering

schawn chi ming li
denver, colorado