

PROBLEM STATEMENT

As technology further develops our abilities to communicate across distance, what role will public space play, if any, in the future shaping of our cities?

DIGITAL COMMUNICATION

Safe Nest

ENGE

ch 9-20

The greatest challenge with the increasing use of more & more advanced communication technologies is a distancing from the self and from the act of creation. The greater ability to connect with others comes with the negative consequence of living vicariously through the actions & experiences of others.

DIGITAL COMMUNICATION

TYPOLOGY

Adaptive public space & community workshop.

+ COMMUNITY COLLEGE

THE NATIONAL INSTITUTE OF MOOD FINISHIN DIRETA COUNTY

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THE WORKSHOP adapts the production elements of a community college to the connective purposes of a community center. instead of a focus on communication, something easily facilitated by digital communication, the emphasis instead is on collaboration and creation.

THEORETICAL PREMISE/ UNIFYING IDEA

The digital world must not be allowed to become a cheap substitute for our tactile and perceptual experience of the world.

SITE

CHICAGO is known for great architecture. It is also known for great areas of division. The hectic pace of the city's lifestyle along with its racial and economic divisions make an ideal site for a building to bridge these gaps.

WEST LOOP

THE DESIGN

Interaction Matrix	1			I																				
Essential Desirable Not Needed	Entrance Lobby	Private Offices	Reception	Director's Office	Public Toilets	Meeting Space	Wood Shop	Storage	Janitor	Circulation	Mech. Room	Parking	Metal Shop	Computer Lab	1-on-1 Spaces	Lounge/Lunch Room	Heavy Machinery Room	Exterior Work Space	Gallery/Display	Library/Resource Center	Lockers	Repair Shop	Riverfront	Walking Paths
Entrance Lobby	- [
Private Offices																								
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Space Allocation

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Entrance Lobby	1000 s.f.
Private Offices	6@120 s.f.
Reception	150 s.f.
Director's Office	160 s.f.
Public Toilets	6@120 s.f.
Break Spaces	3@300 s.f.
Meeting Space	150 s.f.
Wood Shop	2000 s.f.
Storage	2000 s.f.
Janitor	100 s.f.
Metal Shop	2000 s.f.
Computer Lab	500 s.f.
1-on-1 Spaces	10@80 s.f.
Lounge/Lunch Room	1500 s.f.
Flexible Machinery Room	2000 s.f.
Multi-Story Contruction Space	1000 s.f.
Gallery/Display	500 s.f.
Outdoor Display	varies
Library/Resource Center	500 s.f.
Lockers	500 s.f.
Repair Shop	500 s.f.

CONCEPTS

Best Packing Options -'L' Terminal 111111111111 Dip From Corner

Thesis March 5th Deoign Complete Site Design Analysis 1st Keys · Section Perpetice · Process · Detail · Completeness · Evocation · Structure · Detail, Detail, Detail!! · Site Planning · Process, Process, Process!!! ·Stefanie Francine ·TELL & STORY! Freema Best Freeway Facing Doninant Corner Best Views Will Jeed Height Need Height For ieu

DEVELOPMENT


A box is first created to house the workspaces. This space will be elevated 20' above the street level.



The box is "donuted" to provide for better daylighting and a permanent yearround green space.



The end of the box is removed to engage the river.



The structure begins simply with a oneway system of heavy steel wide-flange girders and slighter beams.



Full-height trusses are then run along the one-way system.



Though a one-way system, the structure is braced by crossing full-height trusses in several locations to add rigidity to the frame. This is important due to a 40' cantilever to the South.



Composite decking will help stiffen the truss further.



The same floor plan is copied above.



The building rests on paired columns running along the one-way system. The columns are removed on the grid on the South and East elevations to provide for a cantilever.



The green spaces are cut with light wells to provide for light to the main-level atrium.



Fire Stairs are provided at the West ends of the building.



A 3-story construction space is added for the construction of larger projects, including the possibility of constructing prefabricated housing for lower-income residents of greater Chicago.



A calwall roof is draped over the entire structure, providing natural light into the green spaces and top-level workshops.





Second Floor Layout



Third Floor Layout



Veritical Circulation



3-story construction space.

INITIAL STRUCTURE

THE REAL PROPERTY AND A DECK





FINAL Design

4-sided silicone glass with 6" extruded aluminum mullions

4' x 6' aluminum panel cladding

Community Gardens

FINAL DESIGN



FLOOR PLANS





3-STORY CONSTRUCTION SPACE

Bridge Crane for large-scale construction.

Vertical circulation & observation decks.

Board-formed concret stair cone.

24" x 12" steel beams.

3-STORY CONSTRUCTION SPACE





CONNECTION Details









GREEN ROOF









OUESTIONS