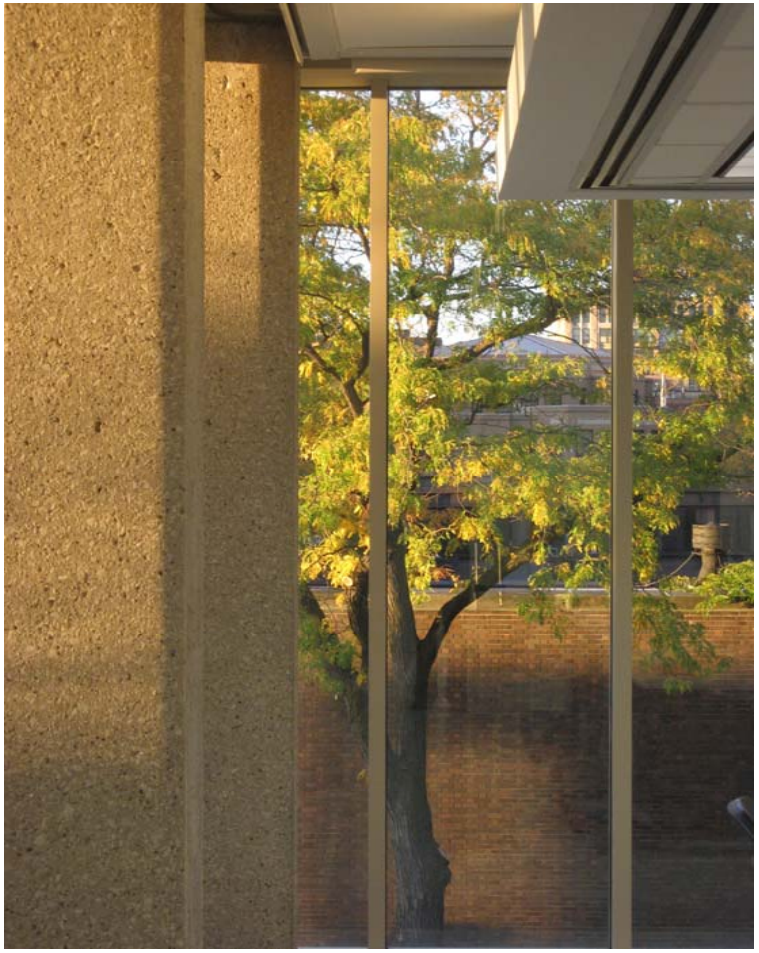
UIC _ the renovation of grant hall



Sandi Port Errant Language and Culture Center at Grant Hall

UIC _ about the campus

- Major Research University
- 25,125 students
- $268M in externally funded research
- 14 Colleges plus Medical Center
- Convenient to public transportation
- Over 100 buildings
- 244 acres in the heart of Chicago
    - East Campus – 115 acres
    - South Campus – 44 acres
    - West Campus – 85 acres

UNIVERSITY of ILLINOIS at CHICAGO _ grant hall

1963 – A Campus from Scratch

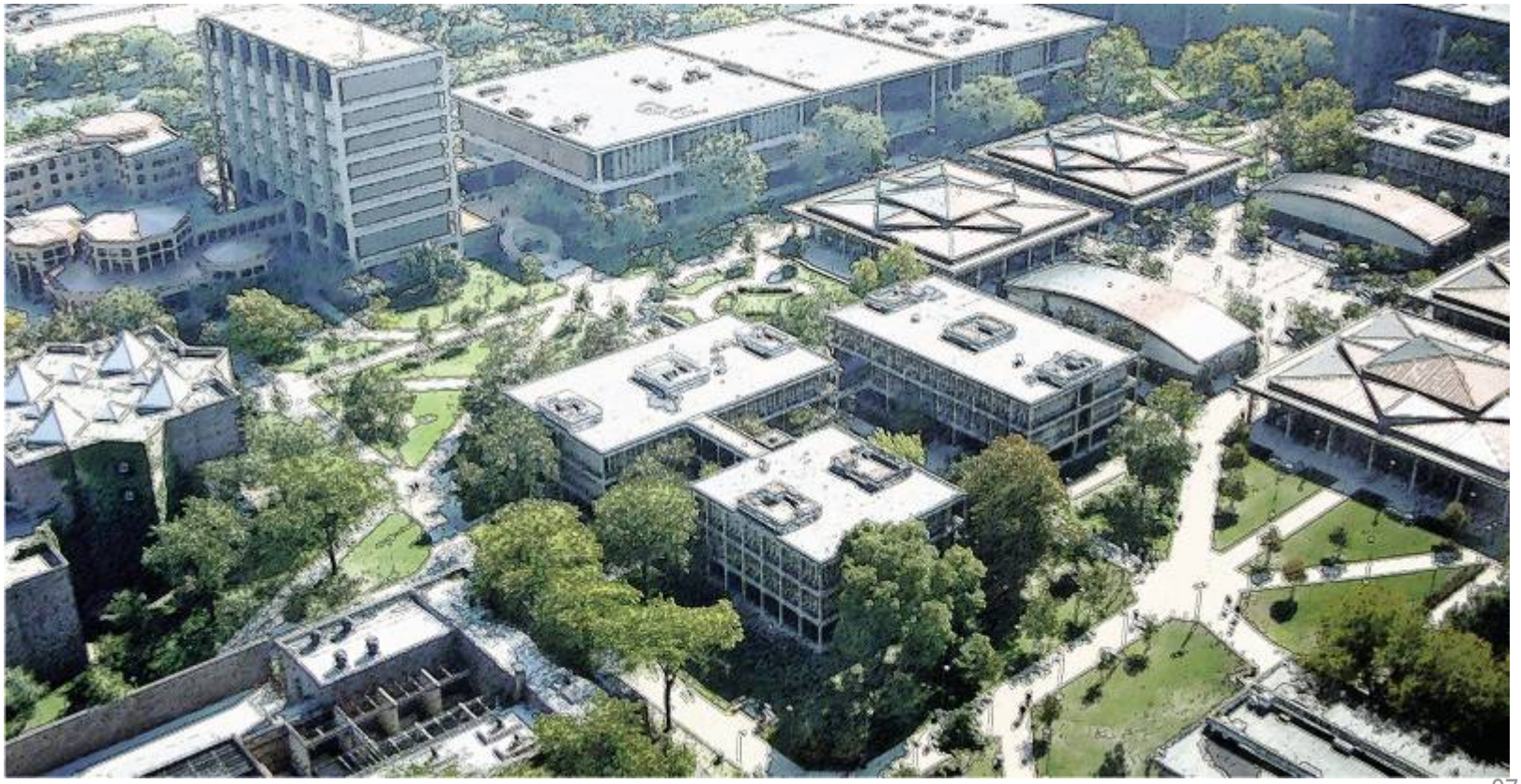
- Walter Netsch and the Mayor
- "Circle Campus"
- Urban Outpost of the University of Illinois
- Freshman/Sophomore Curriculum
- Commuter Campus
- Walled off from the Community
- Concrete and Granite

1963 – A Campus from Scratch

- Second Level Pedestrian Circulation

The Campus Today

- Removal of the Walkways
- Landscape Dominates Hardscape
- Pedestrian Friendly Space



Stevenson Hall

University Hall

UIC _ mid century modern

Student Center East Tower

Student Center East

UIC _ mid century modern

Richard J. Daley Library

Science and Engineering Office

Science & Engineering South
“Field Theory”

UIC _ mid century modern

Grant Hall

WHY CHANGE? 1963 design solution context _grant hall

1963	2007
• No Sustainable Design Focus	• Sustainable Design Focus LEED Guidelines
• Cheap Energy for Heating & Cooling	• High Energy Prices
• Internally Focused Buildings	• Buildings that take advantage of views out
• Single Pane Glass Applications	• Insulating Low E Glass Applications
• Minimal Daylight	• Prioritize Daylight

grant hall _ template for campus transformation

how to change:

- wholistic approach
- develop a template
- design review committee
- more…

campus-ten original classroom buildings

Design Review Committee

- Two architects from Chicago firms
- One Landscape Architect from a Chicago firm
- One faculty member from the Art Department
- One or Two architects from the Architecture faculty
- The Director and Project Manager from the Office for Capital Programs

- Chaired by the Director of the School of Architecture

The Process

- Conceptual Design
- Schematic Design
- Presentations Campus and University Administration
- Presentation to the Board of Trustees

Time to Fix the Buildings . . .

- MEP systems beyond their useful life
- MEP systems designed when energy was CHEAP
- 1960's Learning Environments
- Deteriorating Building Envelopes
- Evolving Commitment to Sustainable Design

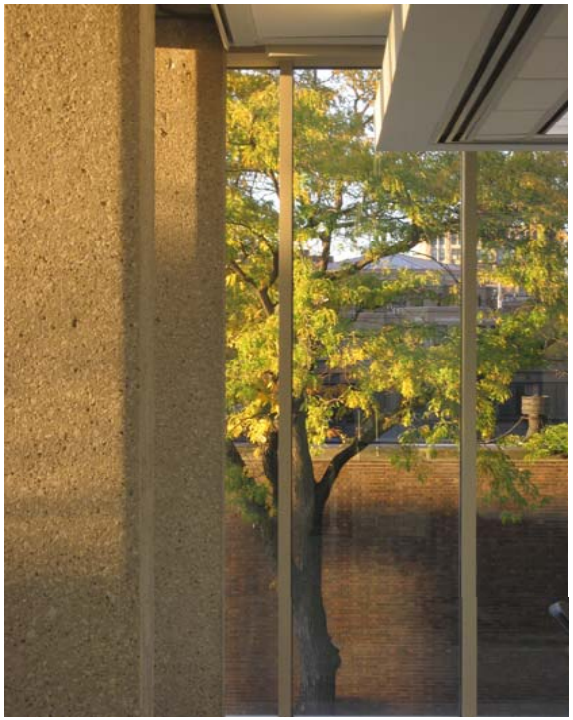
Student & Staff Comments

- Unwelcoming Environment
- Inflexible Functional Spaces
- More Color in Spaces
- More Places to Study & Relax
- Lack of Daylight and Views
- Difficult Wayfinding
- Too Hot in Summer
- Too Cold in Winter





grant hall _ goals



- introduce daylight and views
- update teaching spaces
- stabilization of deteriorating structural concrete
- Life safety and current code compliance
- indoor air quality and comfort
- sustainable design
- updated hvac infrastructure
- create people friendly spaces

grant hall _ template for campus transformation

grant hall _1963

grant hall _ 2007

sandi port errant language and culture center

grant hall _ template for campus transformation

grant hall _ 2007

sandi port errant language and culture center

grant hall _ template for campus transformation

grant hall _ 2007

sandi port errant language and culture center

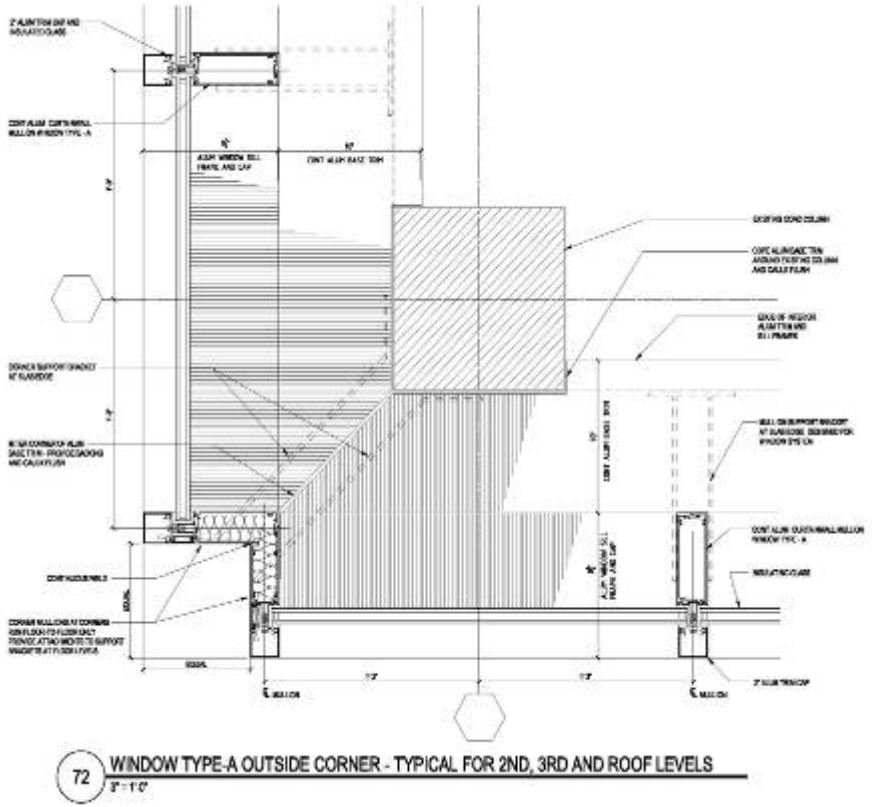
grant hall_ classroom daylight and views--before and after

grant hall_1st floor writing lab and multi-purpose space

grant hall _ 3rd floor language oasis

grant hall – what we will be doing differently next time

the corner detail-respecting the details of Chicago modernist architecture



grant hall – what we will be doing differently next time

Lincoln Hall

- No Basement – Impact on HVAC
- Curtainwall Changes
- Glazing, Shading, Borrowed Light . . .
- LEED Registration
- Over 10% Cost Savings

grant hall – what we will be doing differently next time

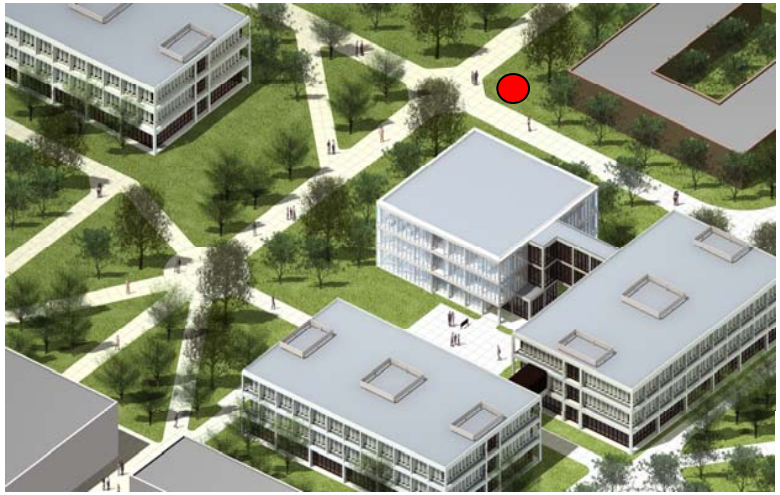
Lincoln Hall

- Provide Building Identity
- LEED Silver or better
- Alternate HVAC solutions
- Impact of Timeline

Planning Process Improvements

- Creation of the “Office of Campus Learning Environments”
- Creation of the “Small Buildings Planning Group”
- Integration of these Groups into the Process
    - Planning
    - Design
    - Construction

grant hall _ geothermal field



The Geothermal Field

Why Geothermal and Heat Pumps?

- Reduced energy usage
- Year round cooling

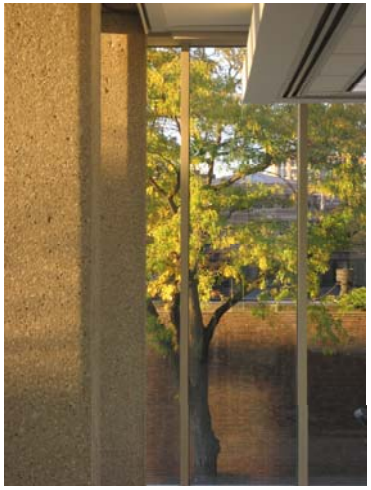
Challenges

- Finding an engineer truly capable of designing a geothermal system
- Optimizing field size
    - 250 vs. 500 foot wells
    - 14 vs. 28 wells
- Planning for the future
- Comfort level of building eng\ineers

Performance - Exceeding expectations

- No use of heat exchangers to date
- No hot/cold complaints
- Design predicted 12-16% energy savings over ASHRE 90.1
    - Installed system is achieving 17%-18%

lincoln & douglas halls _ **geothermal field**



“The role I played in establishing this campus is my greatest contribution to the life of the city.”

Mayor Richard J. Daley