



Existing Building Layout viewed from Southwest



BUILDING ENTRY AT LEVEL FOUR

Mid-20th Century Buildings Workshop

Converted to research labs in 1980

Floors are not aligned with main building

COURTYARD AREA

ANIMAL VIVARIUM Built 1974



Annex Building



Courtyard View



Main Building Entry Level Four





Lab with Exposed Fan Coil Units



VIEW OF EXISTING LAB SPACE

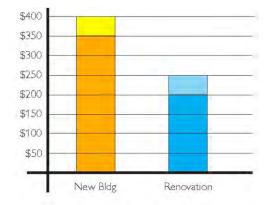


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Facility Officers Conference/ Columbus, Ga./26 October 2011

STRUCTURE

- -No visible signs of structural deterioration
- -Column grid and spacing is conducive to modern open labs
- -Design of frame will support typical live loads



COST COMPARISON		
	NEW BLDG.	RENOVATION
HOK Benchmark	\$350-400/sf	\$200-250/sf
Probable Construction Cost		\$225/sf*

^{*} Cost estimate is based on beginning work in 2007 with a phased construction schedule.

SKIN

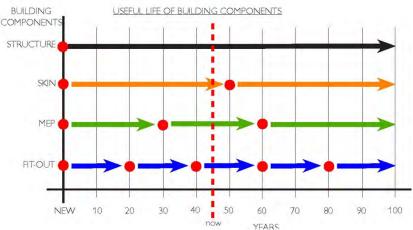
- -Brick veneer with CMU backup
- -Good condition overall, minimal work required
- -- Aluminum windows- need replacement

MEP SYSTEMS

- -Existing building system capacity has been far exceeded by demand of research program
- -Expanded service needs provided by suspended fan coil units in labs
- -Electrical service has expanded beyond original capacity and electrical panels are now located in the corridors

LAB FIT-OUT

- -Lab layout is inflexible
- -Research needs have changed since this building was built
- -Renovation for flexibility should be considered



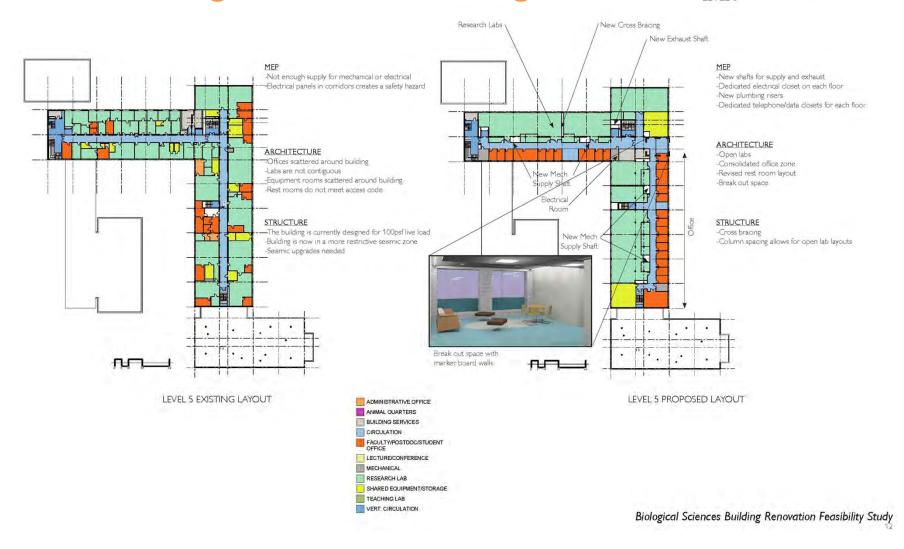


CURRENT/PROPOSED LAYOUT LEVEL 3

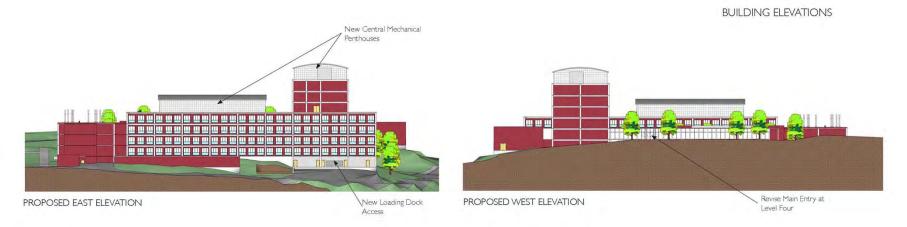


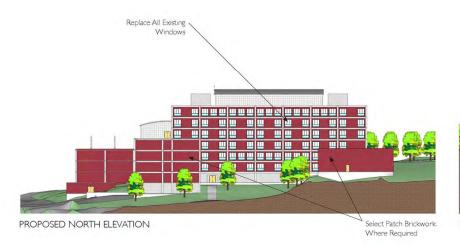


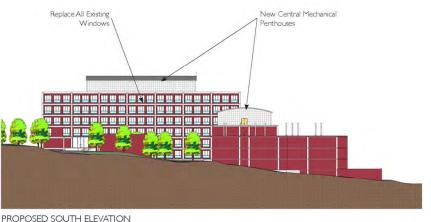
CURRENT/PROPOSED LAYOUT LEVEL 5











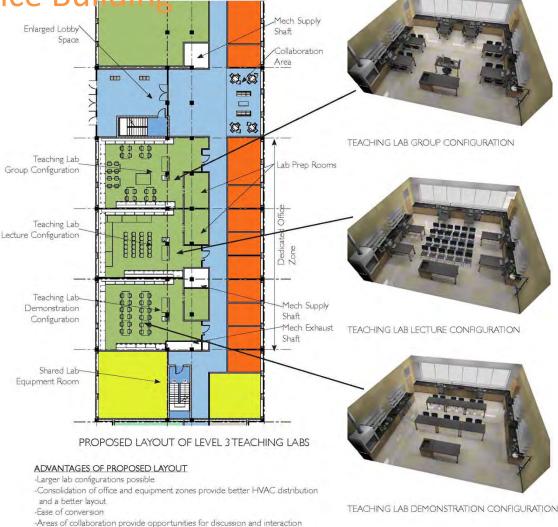


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VIEW OF PROPOSED LABS

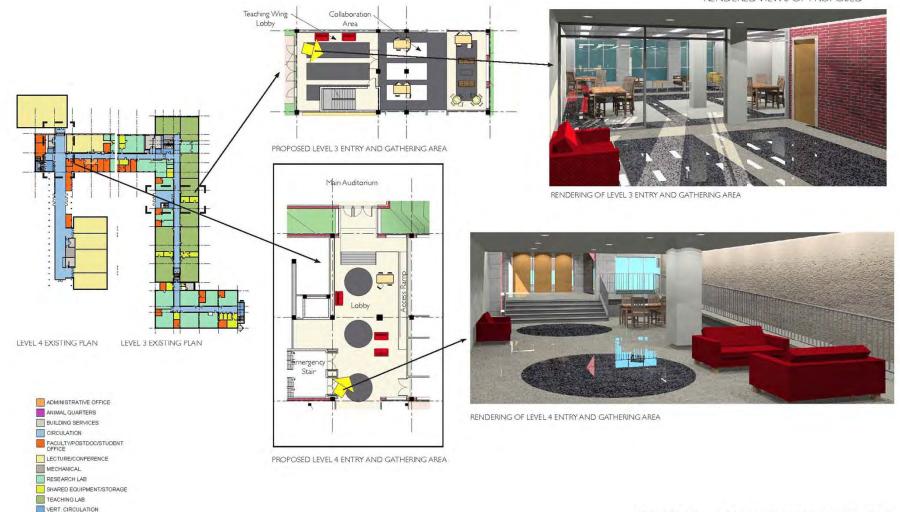




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among students, teaching faculty and researchers
-Daylit corridors more visually interesting

PROPOSED ENTRY LOBBY LAYOUTS
RENDERED VIEWS OF PROPOSED



Biological Sciences Building Renovation Feasibility Study



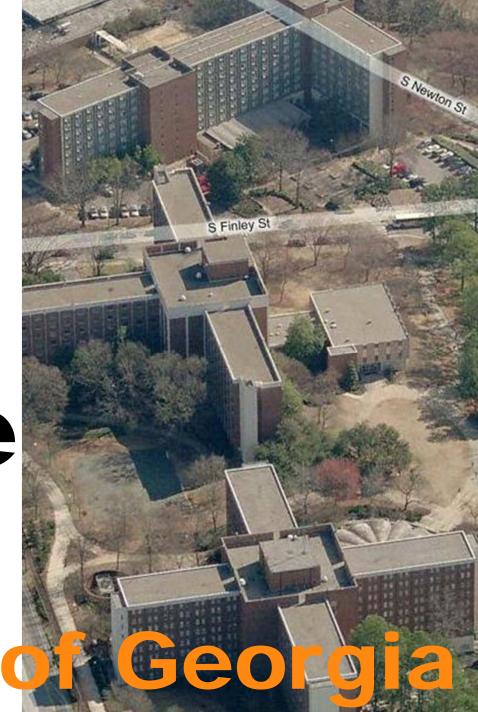


Axon View of Proposed Building



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Dealing with the Campus high-rise



University

Modern Era High-rises

= challenges for campuses



Repair?

Replace?

Rebuild?

Brumby Hall

Existing Conditions Findings





Brumby Hall

Built: 1966

General Information:

- Total Gross Square Feet: 210,484
- Square feet per Bed: 225
- 935 Beds: 1st-Year Women student-focused
- Nine floors: 1 Student Services offices & 2-8 residents
- Double-occupancy rooms with community bath per wing
- Structure: Concrete frame with brick veneer exterior & non-thermally broken windows

Findings:

- Well Maintained: No major Renovations/Upgrades, so starting to show typical signs of age
- Exterior Envelope & Roof: Water Infiltration issues
- Life Safety, ADA & Code issues: Upgrading required
- Structural Systems: No reported problems
- HVAC: Galvanized, 2-pipe system has corrosion issues
- Plumbing, Electrical & Fire Protection: Building systems require upgrading

Positive issues associated with campus high-rises

Campus Cash Cows

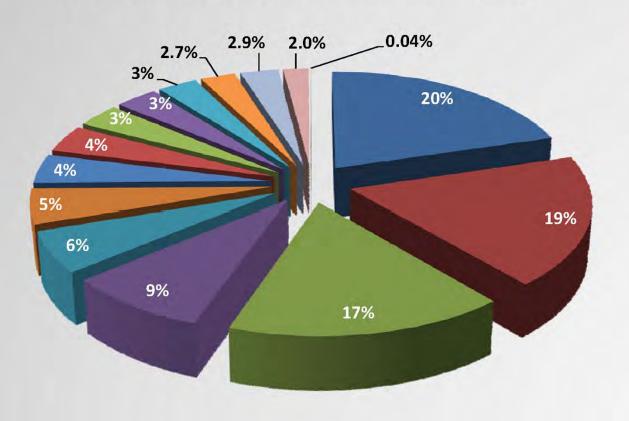
Good use of campus space

Popular communities



high percentage of Students in B/C/R

Q4. Where did you live as a freshman while attending UGA (or this year if you are currently a freshman)? (n=763)





PROS:



High Density of Students close to academic center of campus



Viable Campus
Communities and Traditional
Connection for Alumni



Wear & tear to roofs & parapets



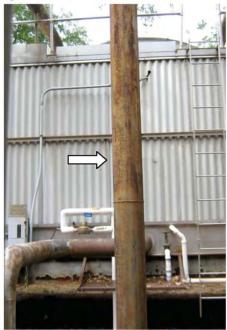












Figure M



Figure N

Mechanical, Electrical, Plumbing



Life Safety





OLD



Can they compete with New Dorms?

Financial Analysis

General Assumptions

- Exp. & Rev. Assumptions
 - Actuals: 2007-2009
 - 2009-10 Actuals to Q3
 - YTD % of Total 2010: 75%
 - Projections for 2011-2021
 - Projections based on 2009-10

- Inflation Assumptions
 - Expense: 3.5%
 - Revenue: 4.0%
- Capital Expenditures
 - Planned B/C/R Expenditures
 Not Included
 - 2010-11: \$6.2 Million
- Debt Assumptions
 - 2010 Actuals Projected Forward

Financial Analysis

Current Condition Projected to 2020-21

2010-11:

- Revenue: \$39.4 Million
- Expense: \$27.2 Million
- NOI: \$12.1 Million
- Debt PMT: \$10.2 Million
- DCR = 1.19
- DSR = 1.66
- Cash Flow: \$1.9 Million

2020-21:

- Revenue: \$58.2 Million
- Expense: \$38.9 Million
- NOI: \$19.3 Million
- Debt PMT: \$11.2 Million
- DCR = 1.72
- DSR = 2.37
- Cash Flow: \$8.1 Million

Financial Analysis

Financial Capacity for Renovations No Rate Premium for B /C /R

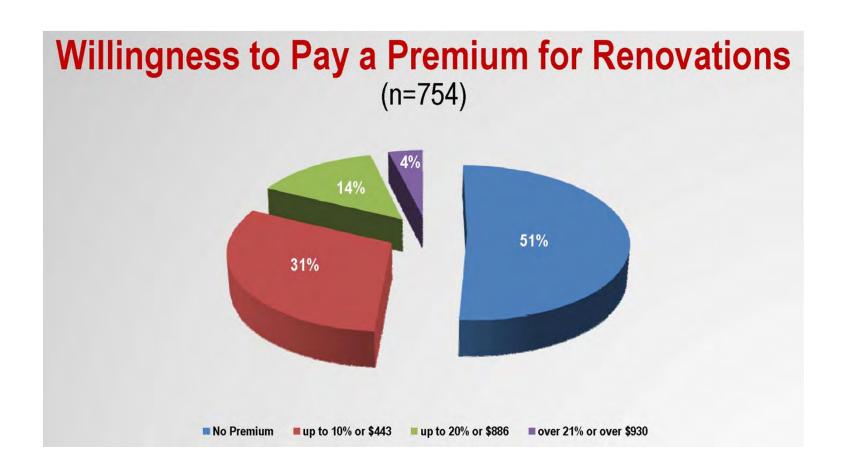
- 2013-14 Est. Cash Flow
 - \$2.45 Million
- B /C /R Rate per Bed
 - \$5,010 per Year
- Available Cash for Reno (maintaining a 1.1 DCR)
 - \$1.3 Million

- Available Debt Capacity
 - Total: \$18.3 Million
 - 30-year Term @ 6.0%
- Renovation Funding Capacity
 - \$29.00 per SF
 - \$6,350 per Bed

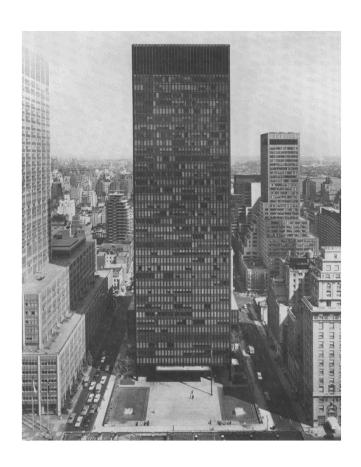
= prohibitively expensive to renovate or rebuild without raising rents



Are Students Willing to Pay??



Preservation



Significant Architecture...



Significance????

How much should we as campus architects respect these less significant structures?

Preservation



Future of the High-rise



