Integrating Real Estate Professionals into the Classroom

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AND
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THE REAL ESTATE CENTER
DEPAUL UNIVERSITY

ERES EDUCATION SEMINAR ZURICH, SWITZERLAND DECEMBER 3-4, 2010

Real Estate Curriculum at DePaul

- Historically grounded in Finance
- Traditional core courses: Investment, Finance, Valuation, plus occasional special topics
- Department of Real Estate
 - New course opportunities
 - Control

Real Estate Center Connections to Chicago

- Sponsors
- Interns and placement
- Mentoring
- Classroom

Who they are

Service Providers

- Accounting
- Architect/Design
- Bank
- Brokerage (Leasing, Sale, Property Management)
- Construction
- Consultant (Appraisal, Market Research, Strategic & Planning)
- Corporate Real Estate
- Finance
- o Insurance/Title
- o Law

Owner/Investors

- Development
- Institutional Investor
- Individual
- **O** REIT

Non Profits

- Association
- Foundation

Extras

- Hospitality
- Health Care
- Marketing/Public Relations

Faculty

- Tenured, tenure track
- Full time non-tenure track senior professional
- Adjuncts teaching a full course
 - Introductory Course
 - Specific Content Expertise for Special Topics
 - **Affordable Housing**
 - **x** Retail Real Estate and Retail Development

Traditional Use of Professionals in the Classroom

- Adjuncts
- Juried competitions and presentations
 - o Urban Plan, Capital Committee
- Occasional Guest speakers
 - True Life Adventures
 - Highly specialized expertise

Evolving Approach to Professionals in the Classroom

- Team Teachers
 - Institutional Investment 3 week module
- Case Development
 - GE Capital
- Coordinated Series of Presentations
 - Real Estate Development and Repositioning
 - Management of Design and Construction
 - Multifamily Housing Policy and Finance

Institutional Investment

Topics

- Project Valuation, Analysis, Structure, Limited Partnerships and LLCs
- The Role of Consultants in the Institutional Decision Process
- The Institutional Real Estate Investment Market; a multidisciplinary approach
- CAPM and Portfolio Construction (Susanne Cannon)
- Pension Funds: Global Markets and their Portfolio Role
- Pension Funds Portfolio Strategy
- Henderson Global (DePaul Case) Charlie Wurtzebach
- Public and Private Real Estate Portfolios I
- REIT Valuation and Merger
- EQR Case/Merryland (DePaul Case)
- Publicly Registered, Privately Traded REITS
- Public and Private Real Estate Portfolios II
- Flowers Residential Case
- Raising Capital: Public (long short hedge funds) and Private (Pensions) Funds, Foundations and Endowments)

Speakers

- Lee Harkleroad, Ernst and Young, Tax Partner
- Will McIntosh, Chief Investment Officer, Fund Evaluation Group
- Ray Milnes, Jr., Partner, National Industry Sector Leader-Real Estate, KPMG
- Jacques Gordon,, Global Strategist, LaSalle Investment Management
- David Neithercut ,CEO, EQR
- George Pandaleon, Managing Director ,Inland Management Company
- Allan Sweet, AMLI
- Denise Olsen, GEM Realty Capital

Real Estate Development and Repositioning

Topics

- Financing Issues and Foreclosures
- Roosevelt Hotel Discussion
- Feeling the Love Deals of the Heart
- Field Trip: Chicago French Market
- Financial and Partnership Restructuring
- Urban Infill What does the future hold?
- Affordable Housing: Stateway Gardens to Park Boulevard
- Marketing, Branding and Leasing Multifamily/residential

Speakers

- Neil Freeman Aries Capital
- Michael Tobin, US Equities
- Robb Bolhoffer and Richard Hurd Strategic Capital
- Robert Flannery JRG Capital
- James Miller and Robert Koerner
- David Hooks Hooks Marketing

Planning and Public Policy

Topics

- THE STRUCTURE AND PRACTICE OF CONTEMPORARY PLANNING:
- THE LEGAL BASIS OF PLANNING
 THE TOOLS OF LAND USE PLANNING
- THE STRUCTURE AND PRACTICE OF CONTEMPORARY PLANNING:
- PLANNING AND POLITICS THE SOCIAL ISSUES THE COMPREHENSIVE PLAN
- FIELDS OF PLANNING: URBAN DESIGN
- URBAN RENEWAL AND COMMUNITY DEVELOPMENT
- TRANSPORTATION PLANNING
- ECONOMIC DEVELOPMENT
- FIELDS OF PLANNING:
 GROWTH MANAGEMENT, SMART GROWTH AND
 SUSTAINABLE DEVELOPMENT
 ENVIRONMENTAL AND ENERGY PLANNING
- LARGER QUESTIONS:
- PLANNING FOR METROPOLITAN REGIONS
- NATIONAL PLANNING IN THE UNITED STATES
- PLANNING IN OTHER NATIONS

Speakers

- PLANNING/ZONING GUEST SPEAKER:
- STEVE LENET, LCT DESIGN
- HOUSING POLICY GUEST SPEAKER:
- JACK MARKOWSKI,
- PRESIDENT, COMMUNITY INVESTMENT CORPORATION URBAN DESIGN/THE BURNHAM PLAN GUEST SPEAKER:
- LAUREN FISCHER, CHADDICK INSTITUTE
- BROWNFIELD DEVELOPMENT GUEST SPEAKER:
- MARK GEALL, TANESAY DEVELOPMENT

• REGIONAL PLANNING/CHICAGO 2040 GUEST SPEAKER: ERIN ALEMAN, CMAP

Urban Plan



Management of Design and Construction

- Commercial Building Design
- Construction Management
- Feasibility Pro Forma Development
- Office Building Development Case done in teams of three using Google SketchUp and R. S. Means Cost Data
- Industry Experts as Guest Speakers

Design and Construction Guest Speakers

Topics

Architectural and Engineering Design

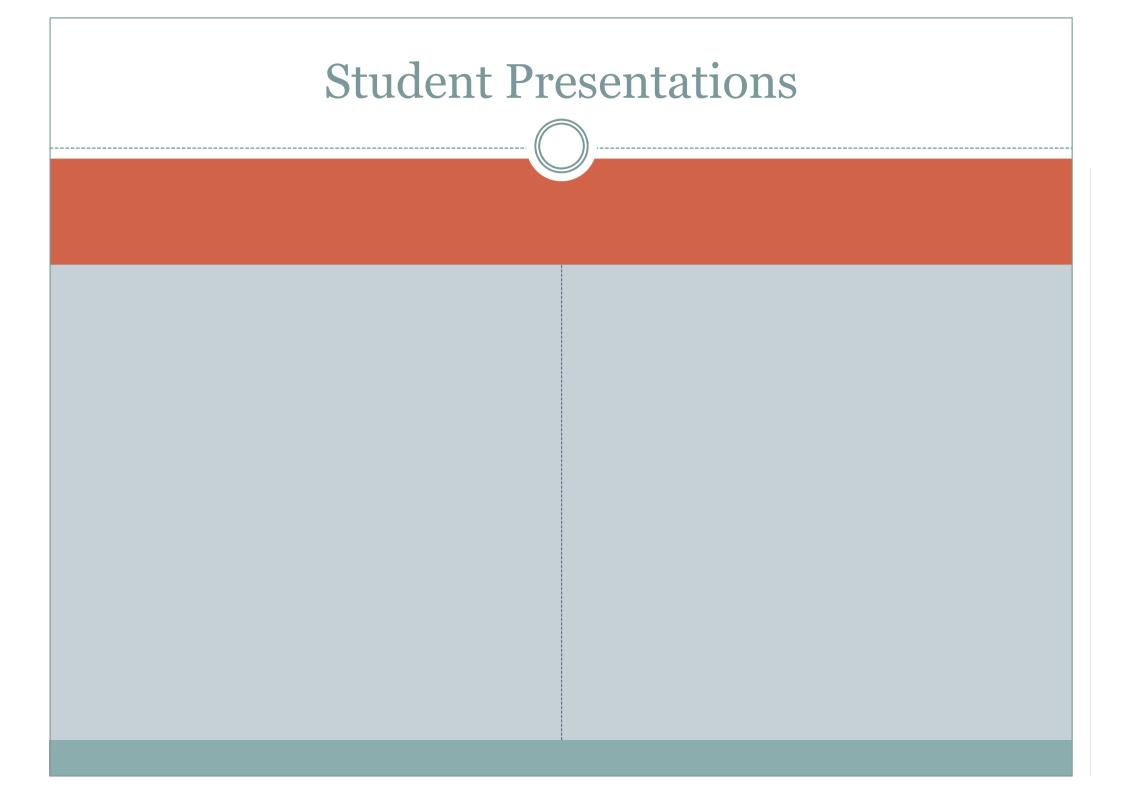
- Architecture
- o .HVAC
- Structural
- Sustainable Design and LEED

Construction

- Design and Construction Insurance
- Design and Construction Law
- Owner's Construction Representative
- General Contractor/Construction Manager
- Development

Speakers

- · Michael Kaufman, Goettsch/Lohan
- Bud Spiewak, Cosentini Assoc
- David Weihing, Thorton Tomasetti
- Craig Sieben, Sieben Energy Assoc.
- Melissa Roberts, Euclid Insurance,
- · Laurie Randolph, Hinshaw & Culberson
- Michael Cannon, Arch Consultants
- John Hamilton, Walsh Construction
- Ed Woodbury, McCaffery Interests





Project Information:

- **Building:** 1500 McConnor Parkway
- Building Owner: CannonBell Investments, LLC
- Building Class: A
- **Size/Stories:** 90,000 gross square feet / 75,000 net rentable square feet; Three stories
- **Year Built:** Projected Spring 2007



Project Information (cont'd):

- Parking Ratio: Approximately three stalls per 1,000 usable square feet
- Net Rental Rate: \$20 per net rentable square feet (NNN)
- Estimated Operating Costs: In addition to the net rental rate, Tenant shall be responsible for its share of operating expenses and real estate taxes for the building. Underwriting assumed operating expenses of \$7/sf and \$3/sf.
- **Typical Floor Plate:** Approximately 30,000 square feet
- Amenities: Fitness facility, on-site day care, and deli.







Project Neighborhood:

Retail Shops:

- Woodfield Mall 1.0 miles
- Ikea Furniture Store 0.5 miles

Lodging:

- Spring Hill Suites 0.2 miles
- Hyatt Regency Woodfield 1.2 miles



Project Neighborhood:

Restaurants:

- Mortan's Steakhouse 0.2 miles
- Webber Grill o.6 miles

Airports:

- O'Hare Airport 14.4 miles
- Midway Airport 31.2 miles

Major Cities:

Downtown Chicago 25 miles



Site Plans



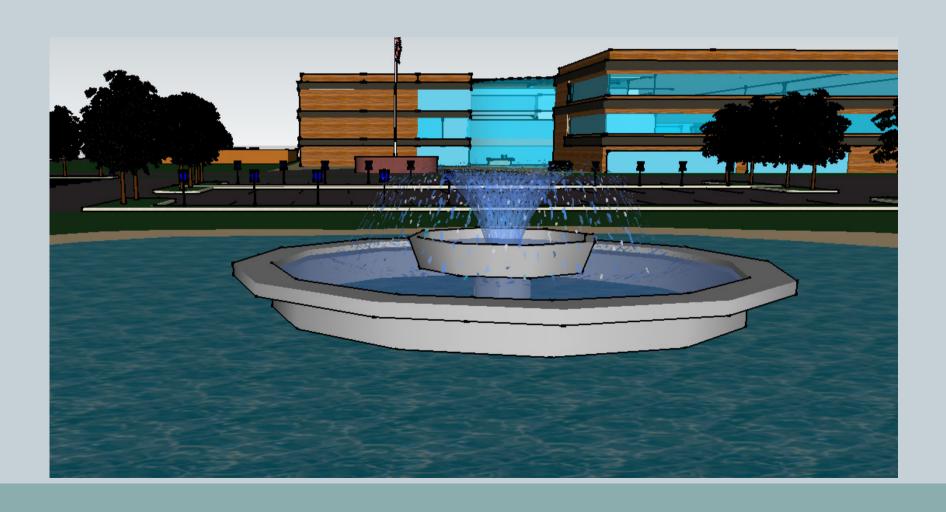


3-D Renderings / Project Photos:



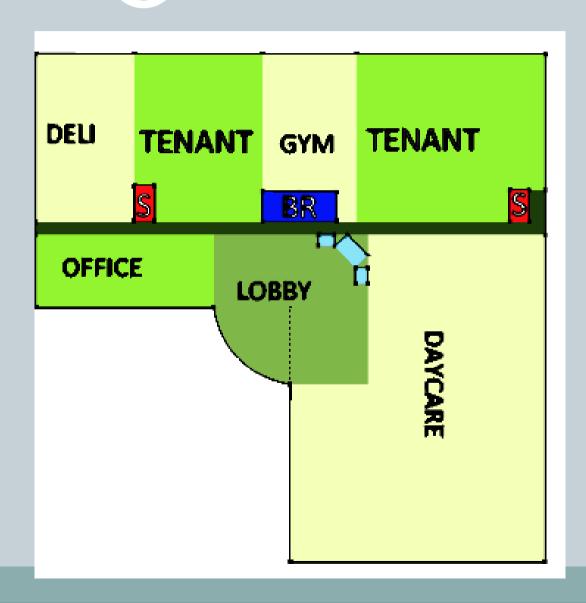


3-D Renderings / Project Photos:



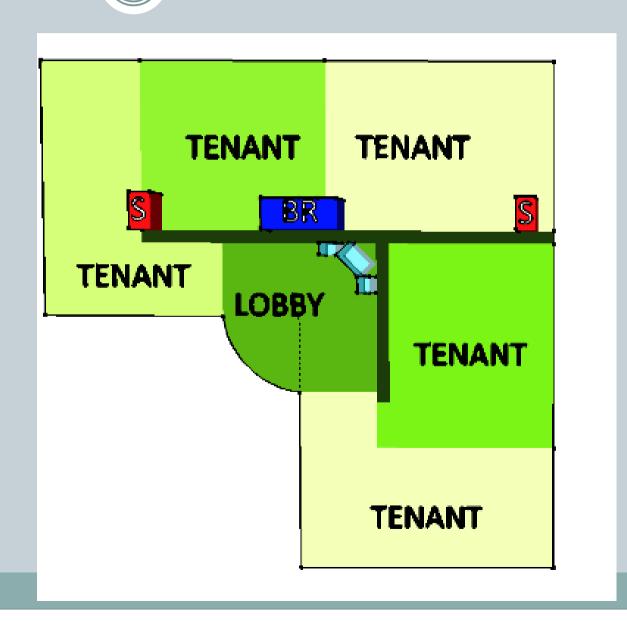


Floor Plans – 1st Floor



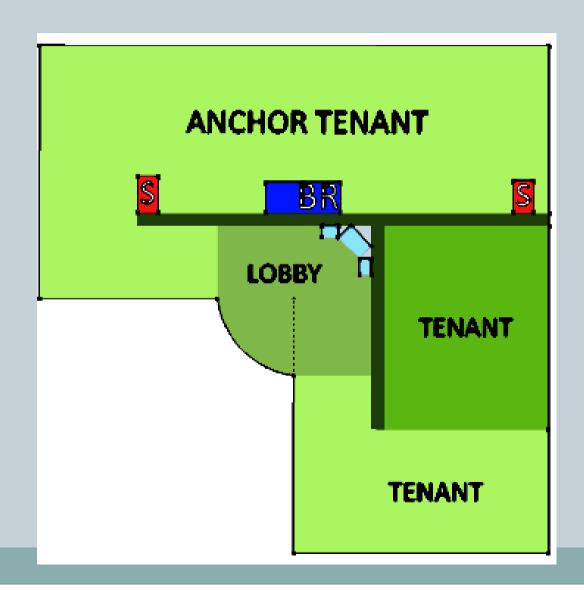


Floor Plans – 2nd Floor





Floor Plans – 3rd Floor





Outline Specifications:

- Foundation: Reinforced concrete footings and foundation walls
- Structure: Steel frame
- Exterior: Metal panels, teak, and glass.
- Roof: Built-up rubber membrane
- Floors Large travertine tiles in lobby, elevator bank, and bathrooms. Office build-out per lease structure (TI \$'s)



Outline Specifications (cont'd):

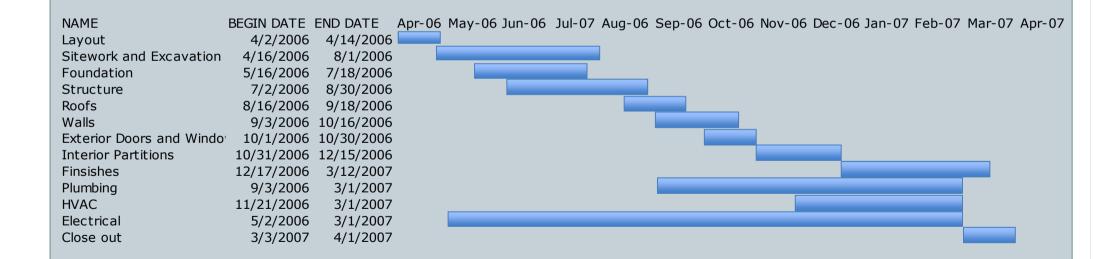
- Elevator: Three glass-enclosed Otis passenger elevators with 3,500 lb capacity.
- HVAC: Rooftop AC units
- Washrooms: Two per floor (mens & women's). Four toilet fixtures and four basins in each. Black granite counter tops and polished stainless steel fixtures.
- Stairwell: Two interior stairwells located within the central core.



90,000 Gross Squar	re Feet		\$13,217,372	\$14
Contact Contact	St	Coat Pass	Total	6 7-
Construction Contract:	Size	Cost Per	Costs	\$/g
I. Fencing	290 linear ft	\$60.50	\$17,545	\$0.
II. Site Work	5.58 acres	\$20,000	\$111,570	\$1.2
III. Concrete	30,000 SF	\$2.94	\$88,200	\$0.9
IV. Travertine	3,200 SF	\$25.00	\$80,000	\$0.8
V. Wire Reinforced Glass	12,500 SF	\$35.00	\$437,500	\$4.8
VI. Pavement	10,000 SY	\$15.45	\$154,500	\$1.7
VII. Exterior Glass	10,500 SF	\$6.65	\$69,825	\$0.
VIII. Exterior Aluminum	8,100 SF	\$3.97	\$32,157	\$0.3
IX. Brick	5,500 SF	\$6.75	\$37,125	\$0.4
X. HVAC	90,000 SF	\$10.25	\$922,500	\$10.
XI. Plumbing	90,000 SF	\$5.15	\$463,500	\$5.
XII. Electrical	90,000 SF	\$10.75	\$967,500	\$10.
XIII. Roofing	30,000 SF	\$53.11	\$1,593,300	\$17.
XIV. Grass	115,000 SF	\$0.41	\$47,150	\$0.3
XV. Land Costs	243,000 SF	\$15.00	\$3,645,000	\$40.
Add for Extraordinary Costs: (List)	_			
Elevators/Lifts	3 elevators	\$100,000	\$300,000	\$3.3
Tenant Improvements	75,000 SF	\$30 - \$50	\$2,800,000	\$31.
Soft Costs		10%	\$1,350,000	\$15.
XVII. Sub Total Cost Proposal			\$13,117,372	\$145
XVIII. Design/Architect Fee			\$100,000	\$1.
XXI. TOTAL CONSTRUCTION	\$13,217,372	\$146		



Gannt Chart – Project Timeline:





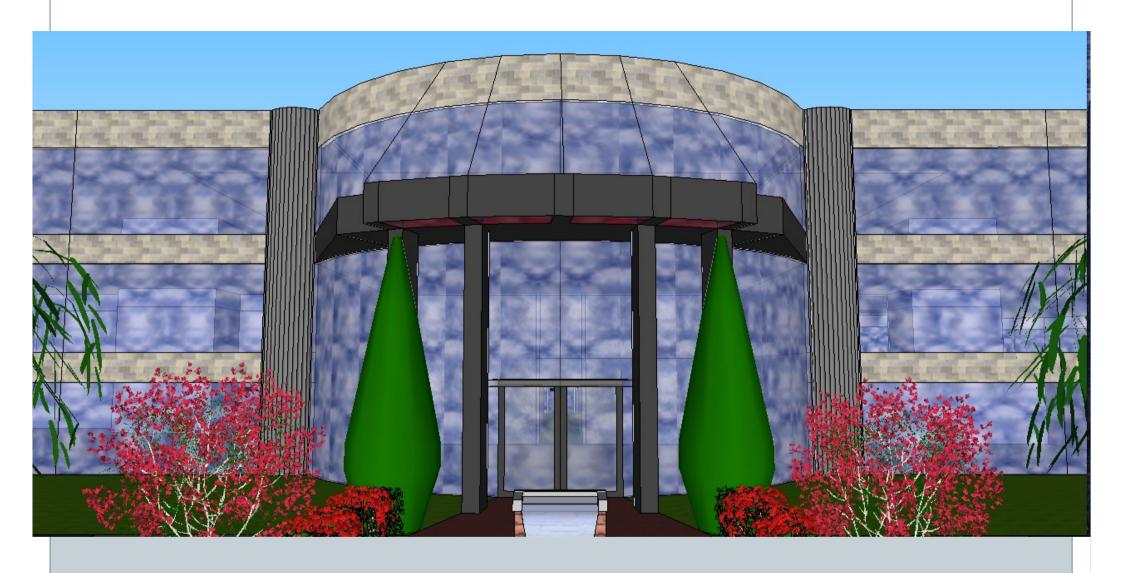
Pro-forma Rent Roll:

Tenant	SqFt	% of Total	Rent per SF	Annual Rent	Start Date	End Date	Length of Lease	Initial TI / SF	TI	Concessions
Day Care	10,000	13.33%	\$10.00	\$100,000	4/1/07	3/31/14	7	\$40.00	\$400,000	5 months
Anchor Tenant	20,000	26.67%	\$20.00	\$400,000	10/1/07	9/30/12	5	\$40.00	\$800,000	10 months
Tenant 1	5,000	6.67%	\$20.00	\$100,000	4/1/07	3/31/14	7	\$35.00	\$175,000	7 months
Tenant 2	5,000	6.67%	\$20.00	\$100,000	4/1/07	3/31/14	7	\$35.00	\$175,000	7 months
Tenant 3	5,000	6.67%	\$20.00	\$100,000	7/1/07	6/30/14	7	\$35.00	\$175,000	7 months
Tenant 4	5,000	6.67%	\$20.00	\$100,000	10/1/07	9/30/14	7	\$35.00	\$175,000	7 months
Tenant 5	5,000	6.67%	\$20.00	\$100,000	1/1/08	12/31/14	7	\$35.00	\$175,000	7 months
Tenant 6	5,000	6.67%	\$20.00	\$100,000	4/1/08	3/31/15	7	\$35.00	\$175,000	7 months
Tenant 7	5,000	6.67%	\$20.00	\$100,000	7/1/08	6/30/15	7	\$35.00	\$175,000	7 months
Tenant 8	5,000	6.67%	\$20.00	\$100,000	10/1/08	9/30/15	7	\$35.00	\$175,000	7 months
Tenant 9	5,000	6.67%	\$20.00	\$100,000	12/1/08	11/30/15	7	\$35.00	\$175,000	7 months
Office of the Building	N/A		\$0.00	\$0	N/A	N/A				
Fitness	N/A		\$0.00	\$0	N/A	N/A				
Deli	N/A		\$10.00	\$25,000	4/1/07	4/1/13	6			
Totals	75,000	100%		\$1,425,000		Average:	7		\$2,775,000	



Pro-forma Underwriting:

Projected Cash Flow	Assumptions	0	1	2	3	4	5
Gross Rents	3%		\$1,425,000	\$1,467,750	\$1,511,783	\$1,557,136	\$1,603,850
Vacancy	5%		(\$71,250)	(\$73,388)	(\$75,589)	(\$77,857)	(\$80,193
Net Operating Income			\$1,353,750	\$1,394,363	\$1,436,193	\$1,479,279	\$1,523,658
Debt Service Payment			(\$672,069)	(\$672,069)	(\$672,069)	(\$672,069)	(\$672,069
Cashflow after Debt Service			\$681,681	\$722,294	\$764,125	\$807,211	\$851,589
Initial Costs Sales Price		(\$8,271,080)					\$14,057,963
NPV (Assuming 12%) IRR (with financing): IRR (all cash):	\$3,998,331 25.58% 19.53%						
Financial Analysis: Cap Rate - Sale: Cash-on-Cash Return Yr 1: Cash-on-Cash Return Yr 1 (no debt):	7.00% 8.24% 10.24%						
Amortization Schedule			1	2	3	4	5
Ending Balance Finance Charge	\$8,591,292		\$8,434,701 \$672,069	\$8,268,714 \$672,069	\$8,092,769 \$672,069	\$7,906,266 \$672,069	\$7,708,574 \$672,069
Interest Charge	6.00%		\$515,478	\$506,082	\$496,123	\$485,566	\$474,376
Amortization	25		\$156,591	\$165,987	\$175,946	\$186,502	\$197,69



SCHAUMBURG PALACE CLASS A OFFICE BUILDING

EXECUTIVE SUMMARY



- Land Size = 323,171 Square Feet, 7.419 Acres
- Land Cost = \$4,847,565
- Building Size = 96,385 Square Feet (Gross)
- Net Building Size = 83,772 SF (Net)
- 86.9% Efficient
- Total Development Cost (inc. Financing) = \$19,799,049
- 7 Year commitment Project Internal Rate of Return is
 15.3%



SITE MAP





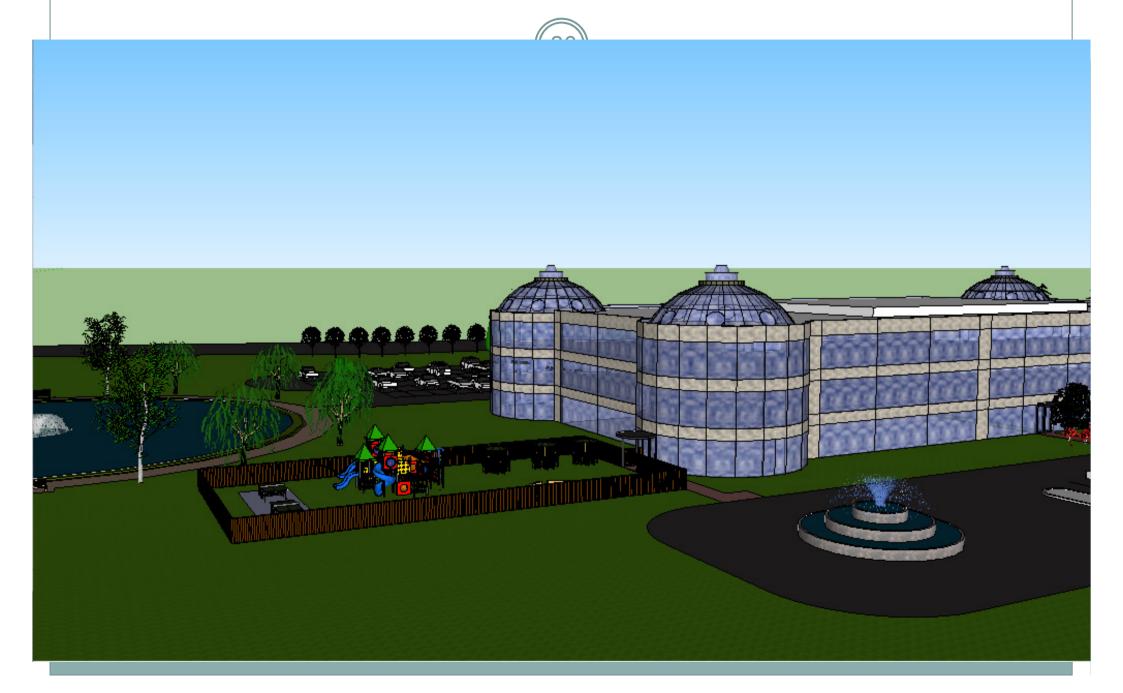
FRONT VIEW - NORTH







SIDE VIEW - WEST



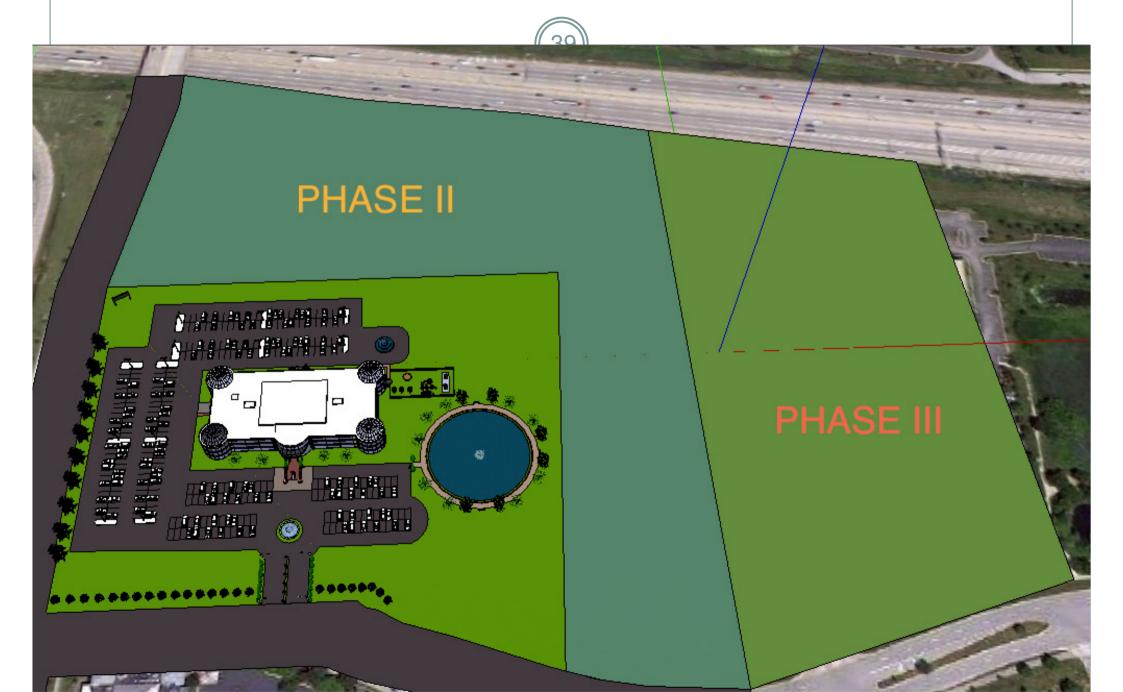
SIDE VIEW – EAST



ROOF VIEW

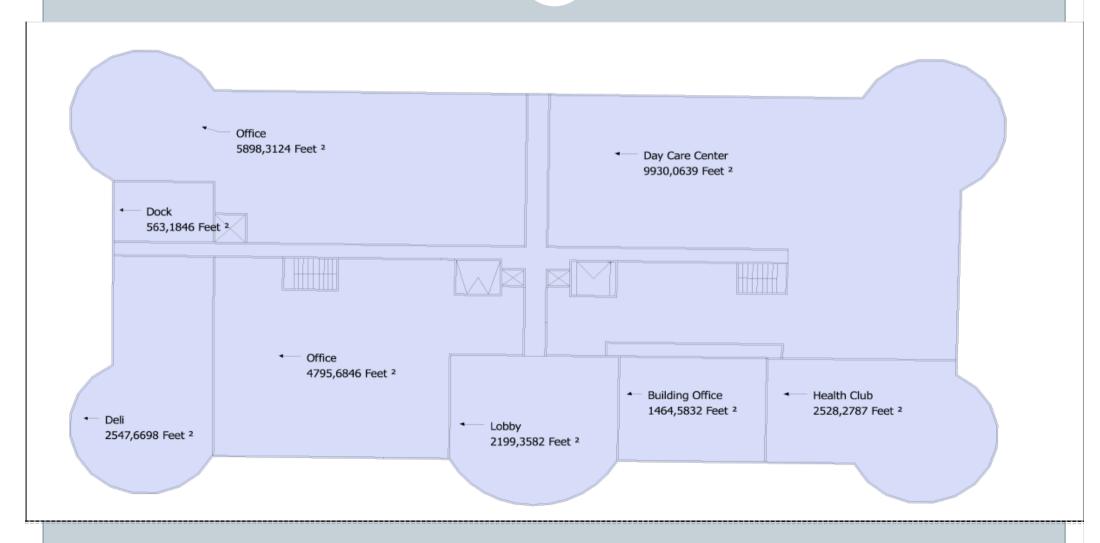


SITE PLAN



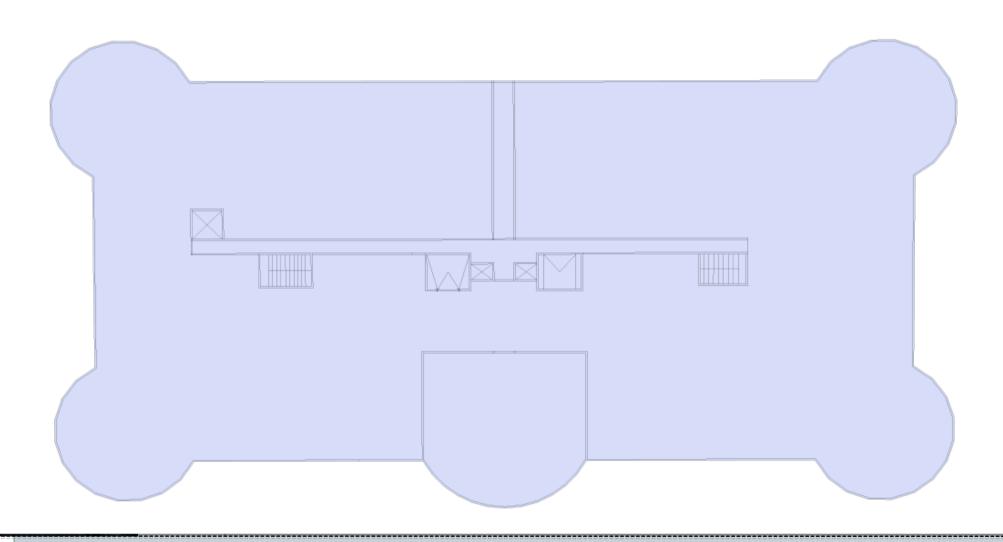
FLOOR PLAN – 1ST FLOOR





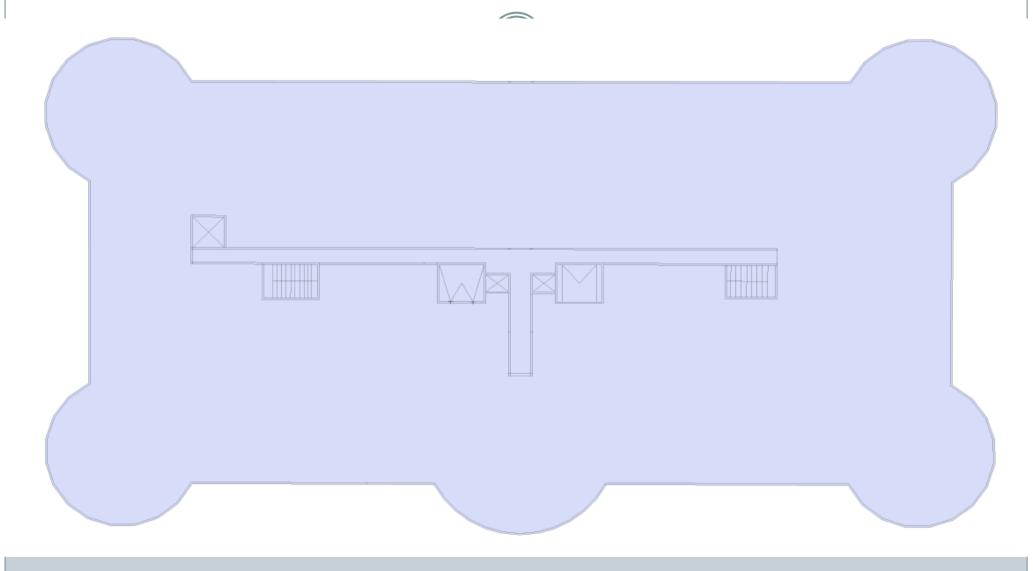


FLOOR PLAN – 2ND FLOOR





SITE PLAN – 3RD FLOOR





Construction Specifications

- Shell steel frame, glass curtain wall and aluminum panels
- Lobby 2 stories with marble and millwork
- Glass Domes at each corner office



Construction Budget

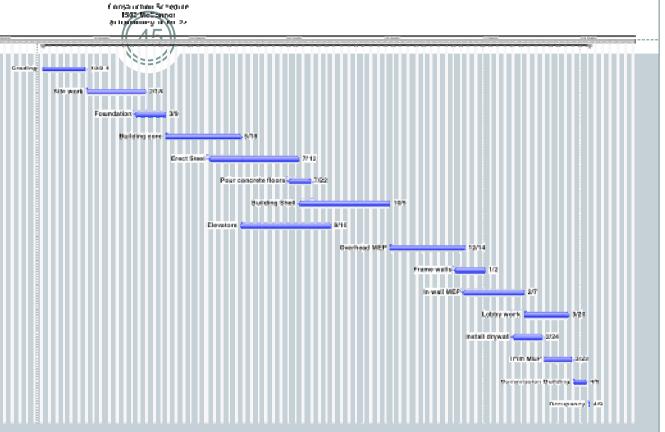
- Building Construction Cost \$161/sf
- Building Core and Shell \$101/sf
- Tenant Improvements Average \$50/sf



Construction Schedule



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	Construction Schedule	366 days	Mon 11/15/10	Mon 4/9/12
	Grading	6 wks	Mon 11/15/10	Frt 12/24/10
	Site work	0 wka	Mon 12/27/10	Fri 2/10/11
	Foundation	4 wks	Thu 2/10/11	Wed 3/9/11
	Building core	10 wks	Thu 3/10/11	Wed 5/18/11
	Erect Steel	12 wks	Wed 4/20/11	Tue 7/12/11
	Pour concrete floors	3 wks	Mon 7/4/11	Fri 7/22/11
	Building Shell	12 wks	Thu 7/14/11	Wed 10/5/11
	Elevators	12 wks	Thu 5/19/11	Wed 8/10/11
	Overhead MEP	10 wks	Thu 10/6/11	Wed 12/14/11
	Frame walls	4 wks	Tue 12/6/11	Mon 1/2/12
	In wall MEP	8 wks	Wed 12/14/11	Tue 2/7/12
	Loibby work	6 wks	Wed 2/8/12	Tue 3/20/12
	Install drywall	4 wks	Mon 1/30/12	Fri 2/24/12
	Trim MEP	4 wks	Mon 2/27/12	Fri 3/23/12
	Commission Building	2 wks	Mon 3/26/12	Fri 4/6/12
	Occupancy	1 day	Mon 4/9/12	Mon 4/9/12



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Summary of Results

46

- Land Size = 323,171 Square Feet, 7.419 Acres
- Land Cost = \$4,847,565
- Building Size = 96,385 Square Feet (Gross)
- Net Building Size = 83,772 SF (Net)
- 86.9% Efficient
- Building Cost (inc. Financing) = \$19,799,049
- Total Development Cost



Financial Analysis

47

- Assumed the Land was equity; money for building was financed
- Office Rent = \$20/SF Net
- Kindercare Rent = \$10/SF Net
- Deli Rent = \$10/SF Net
- Absorption was 30% at open; lease up over a two year period
- Debt Coverage Ratio at Stabilization = 1.52



Other Assumptions



- Rent and Expense growth at 3.00%
- Management Fee charged as a 15% surcharge on CAM
- Real Estate Taxes and CAM charges increase with occupancy
- Reversion 5 year hold from stabilization (7 years in total)
- Going Out Cap Rate is 7.00%
- Project Internal Rate of Return (IRR) is 15.3%



PROFORMA SUMMARY

Schaumburg Palace PROPERTY NAME:

PROPERTY TYPE: Development

Land Purchase Construction Costs Construction Financing Total Development Costs

\$14,278,588 6.00% \$672,896

\$19,799,049

Total Invested Cost

\$19,799,049 \$205.42

\$4,847,565

\$15.00 Per SF

Total Invested Cost/ Gross Square Feet

Total Invested Cost/ Net Rentable Square Feet \$236.34

	1st Year Mo. 1-12	2nd Year Mo. 13-24	@ Maturity	Per Sq F @ Maturit
R E V E N U E S	Proforma	Proforma	Proforma	Proforma
Gross Rental Potential	\$1,550,660	\$1,550,660	\$1,550,660	\$16.09
Rental Income	\$693,920	\$1,240,528	\$1,473,127	\$15.28
Other Revenues	\$391,749	\$700,334	\$831,647	\$8.63
TOTAL REVENUES	\$1,085,670	\$1,940,862	\$2,304,774	\$23.91
EXPENSES				
Real Estate Taxes	(\$328,020)	(\$516,036)	(\$586,404)	(\$6.08)
CAM Charges	(\$140,580)	(\$221,158)	(\$251,316)	(\$2.61)
TOTAL EXPENSES	(\$468,600)	(\$737,194)	(\$837,720)	(\$8.69)
Net Operating Income	\$617,070	\$1,203,668	\$1,467,054	\$15.22
Debt Service	(\$963,154)	(\$963,154)	(\$963,154)	(\$9.99)
Income After Debt Service	(\$346,084)	\$240,515	\$503,900	\$5.23
SUMMARY				
Economic Occupancy	59%	95%	95%	
SQFT Occupancy	59%	95%	95%	
Board Rate \$/SQFT	\$1.54	\$1.54	\$1.54	
Actual (Net) Rate \$/SQFT	\$1.54	\$1.54	\$1.54	
Return on Investment After Management Fees	-1.7%	1.2%	2.5%	
Debt Coverage Ratio			1.52	



Multifamily Housing Policy and Finance

Topics

- Market Rate Analysis and Underwriting (Cannon and Simon)
- Housing Policy (Cannon and Levavi)
 - History
 - Rationale
 - Evolution of programs and policies
- Senior Housing (Cannon, Keledjian, Helle)
 - Market
 - Affordable Assisted

Guest Speakers

- Neil Freeman
- Rick Cavenaugh

Participants and Their Roles

- Faculty Member(s)
- Speakers
- Adjunct Team Members
 - Multifamily-three modules plus guest speakers
 - Development-two phases plus guest speakers
- Juried Presentations

Impact

- Classroom
- Course
- Continuity
- Connections

Evaluations and Assessment

- Comments
- Evidence