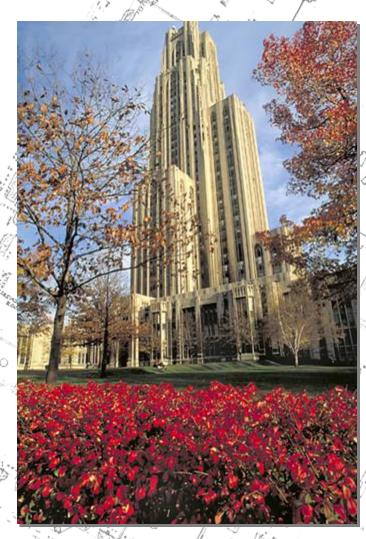


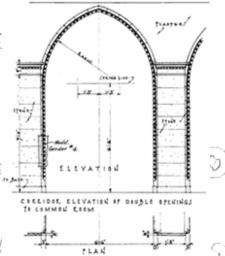
University of Pittsburgh

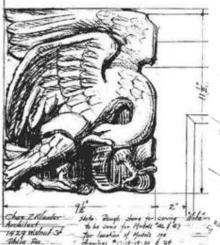
Facilities Management Division

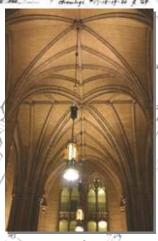


Cathedral of Learning







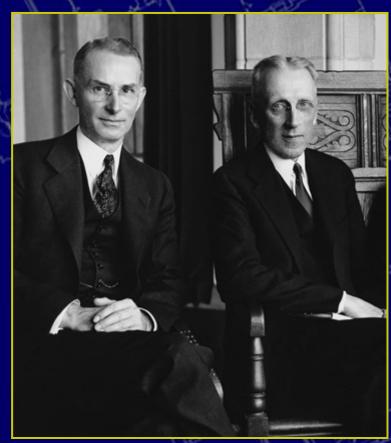


Park Rankin, University Architect Senior Manager of Planning and Design

Cathedral of Learning - Introduction

- •The Cathedral of Learning, at 41 Floors and 535 Feet in Height Contains Approximately 600,000 GSF and 558,000 NSF
- Master Plan by Chancellor Bowman
- •Construction Started in 1926 and completed in 1937, the 150th Anniversary of the University
- •The Building is Steel Frame, Encased in Concrete with Reinforced Concrete Floor Construction
- •Foundation Caissons Were Dug to a Depth of 60 Feet Through Grey Clay to a Firm Bearing on a Bluestone Strata.
- •Cladding was a Select Indiana Limestone, Cut With Various Saw Blades, and Set with Both Horizontal and Vertical Coursing, to give it a distinctive "Rustic" Appearance
- •The Main Entry to the Cathedral is the Commons Room, a Spectacular "Great" Room
- •The Commons Vaulted Ceiling Peaks at 52 Feet, and Has an Area Approximately 12,000 SF, Enough to Seat 2,000 People at Table for Events

Cathedral of Learning Archival Photos



Chancellors Rufus Fitzgerald and John G. Bowman



Site Chosen for the Cathedral



September 25, 1926



Cathedral of Learning Archival Photos



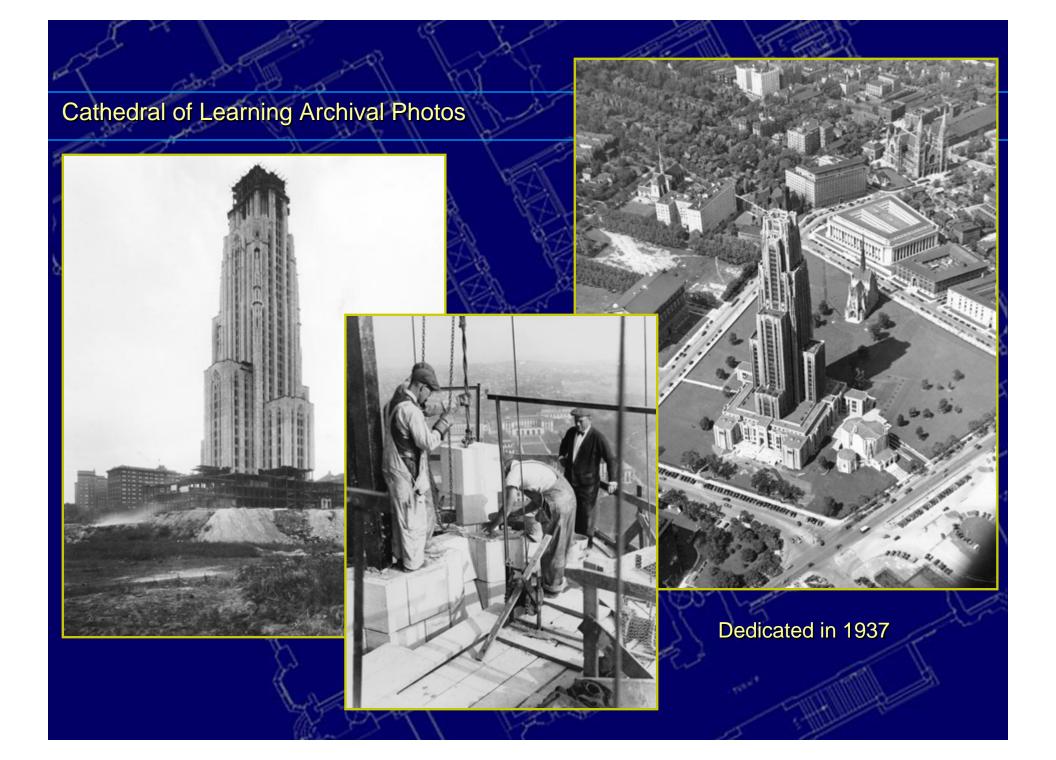






Construction May 1928 – October 1928



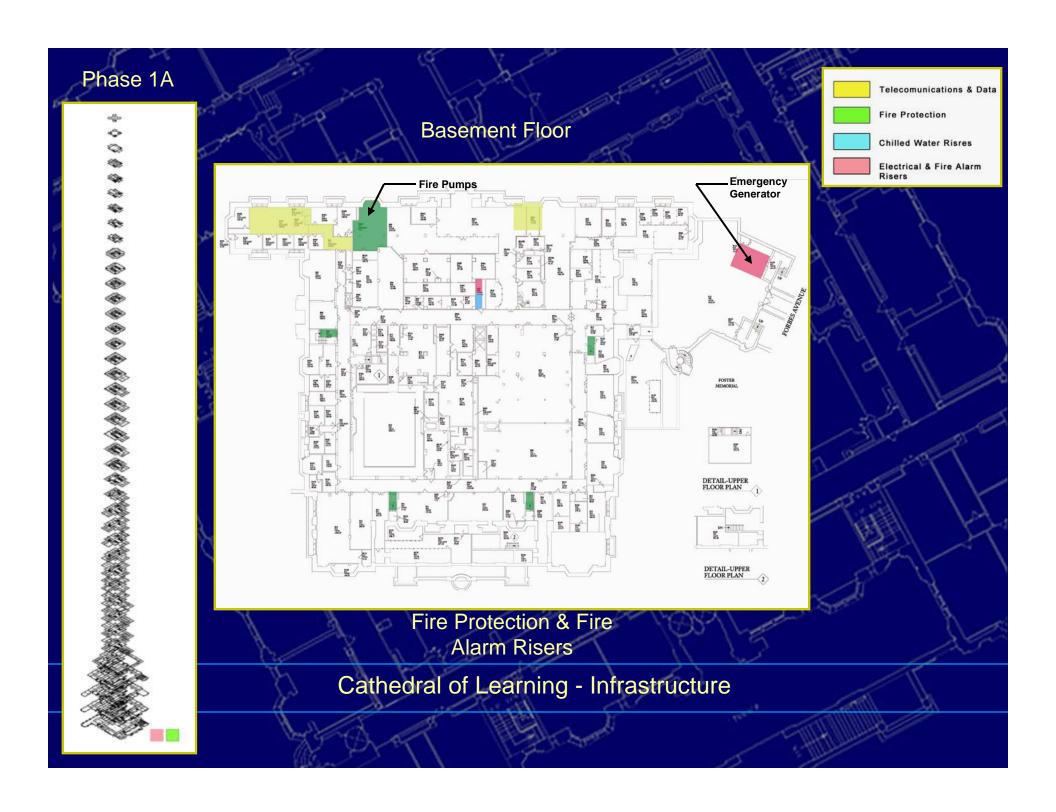


Cathedral of Learning – Code Issues

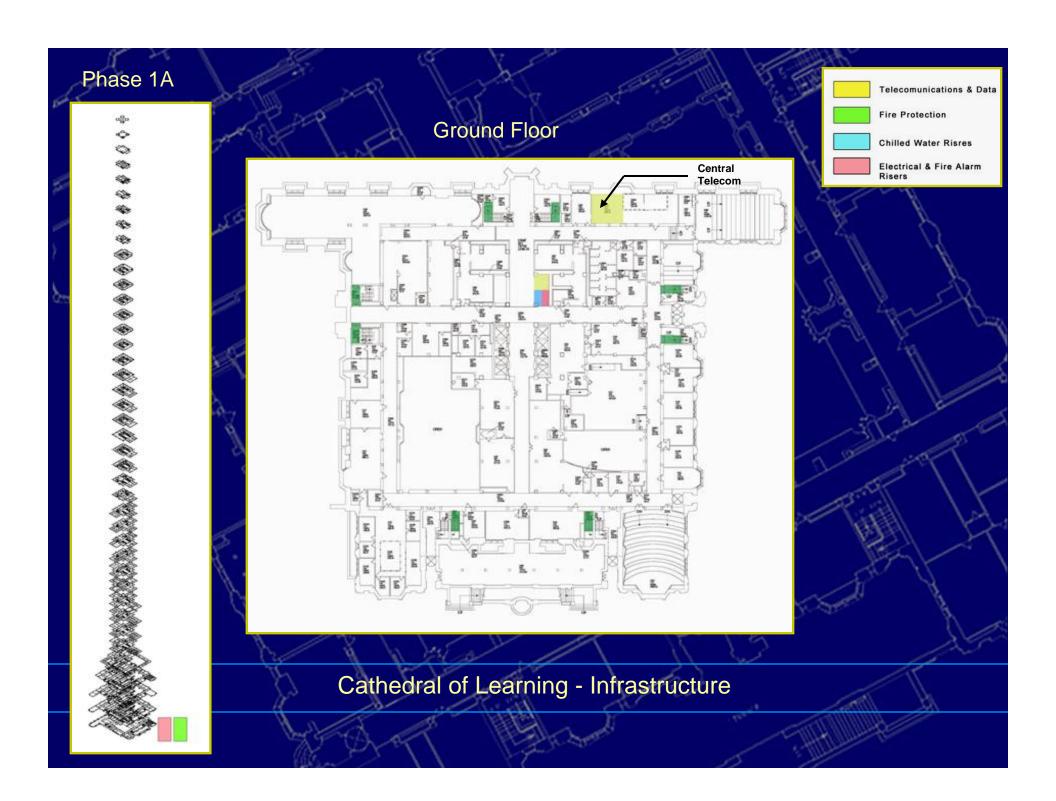
- In the 80's, the University started to address a number of issues about Life Safety in its numerous High Rise buildings.
- The current and previous BOCA codes had classified University and Colleges as Educational, with the notion that they were similar to K to 12.
- The Educational Classifications had no high rise component, therefore they lacked the more restrictive life safety systems.
- An extensive study of these structures was conducted, and alternate strategies were implemented to bring these buildings into compliance, foremost was the Cathedral, the heart of the University.

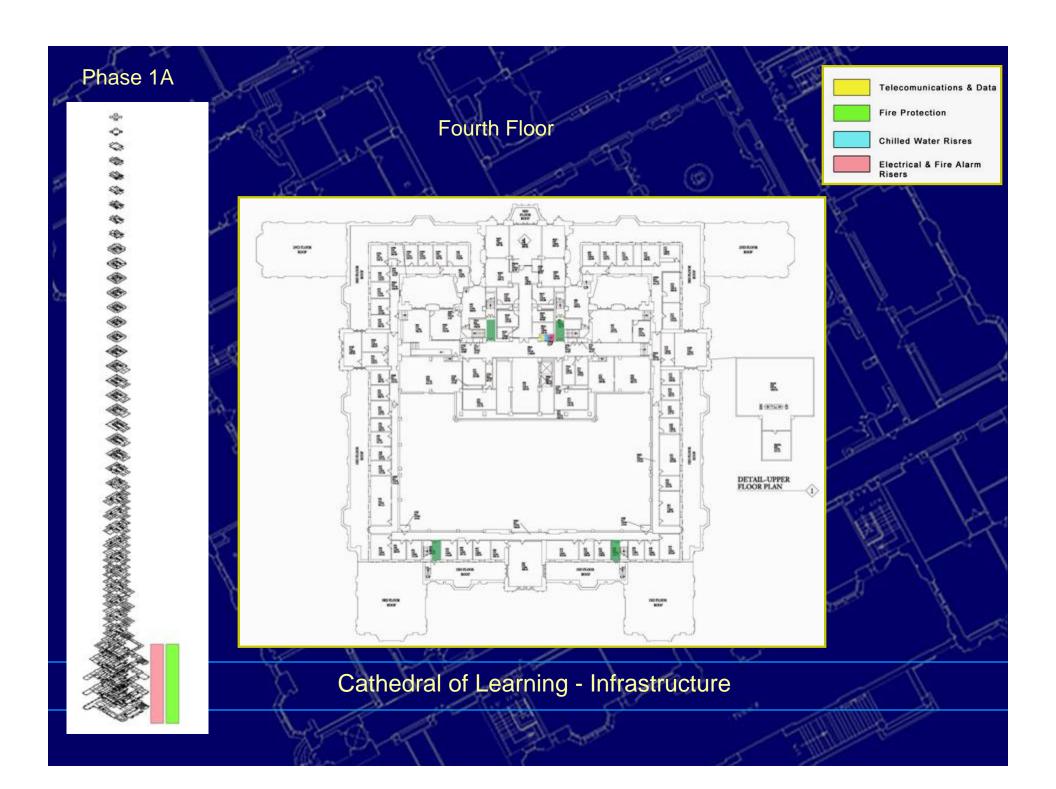
Cathedral of Learning – Current Occupancies

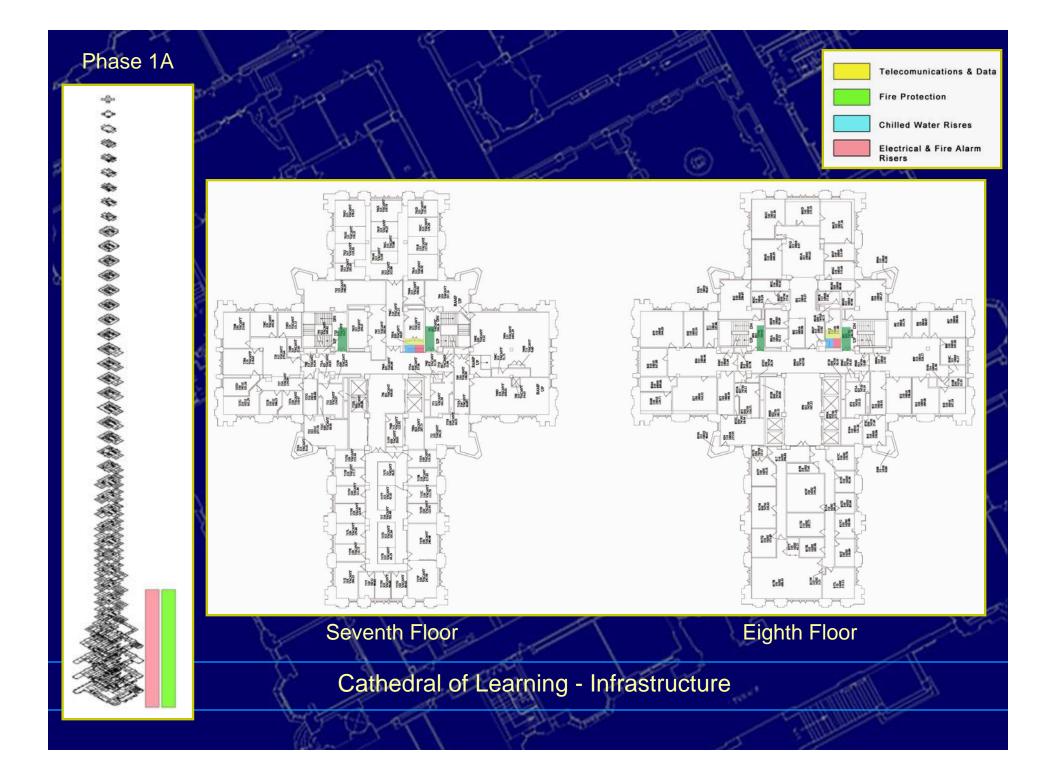
- The Cathedral remains an academic and administrative center for the University, and is the "Corporate Headquarters", with offices for the Chancellor and Senior Vice Chancellors.
- Currently the Cathedral has over 87 classrooms at 48,000 NSF and over 179,600 NSF of administrative and departmental offices.
- There are over 125 window air conditioners.
- There are approximately 25 independent HVAC systems with roof top chillers or DX units.
- The Cathedral needed a unified strategy, to address where this building needed to go in the next 50 years.
- Provide an environment that was expected in a high rise and the technology needed for administration and education and the assurance that all would be safe and protected.

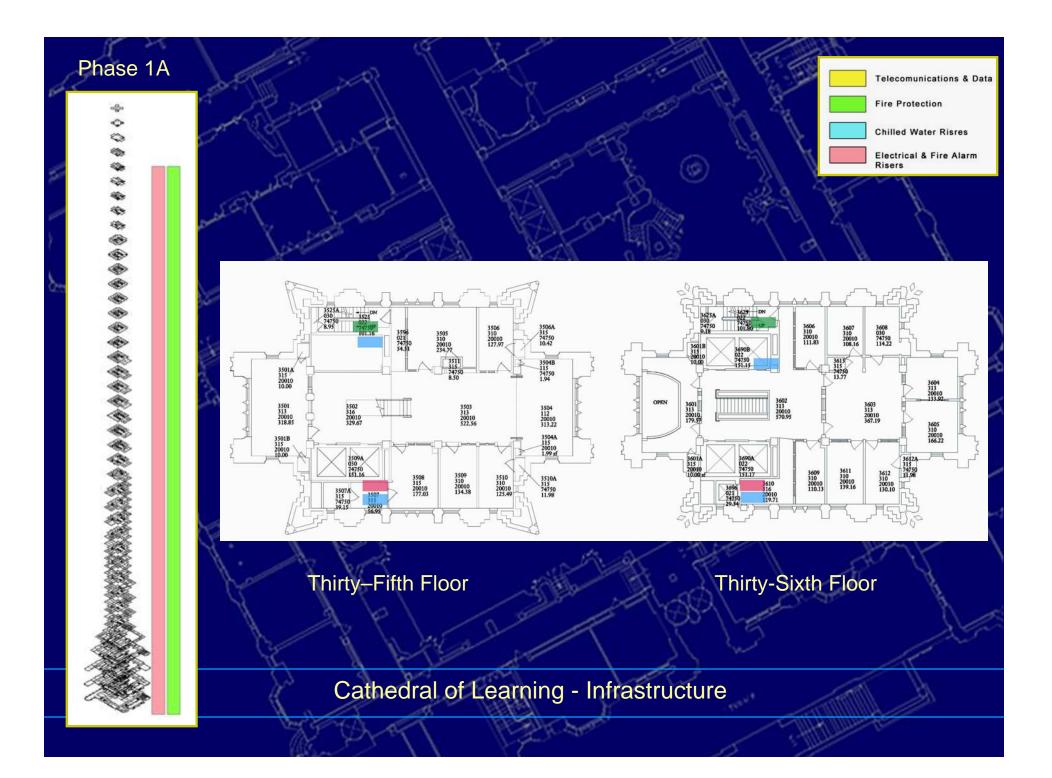


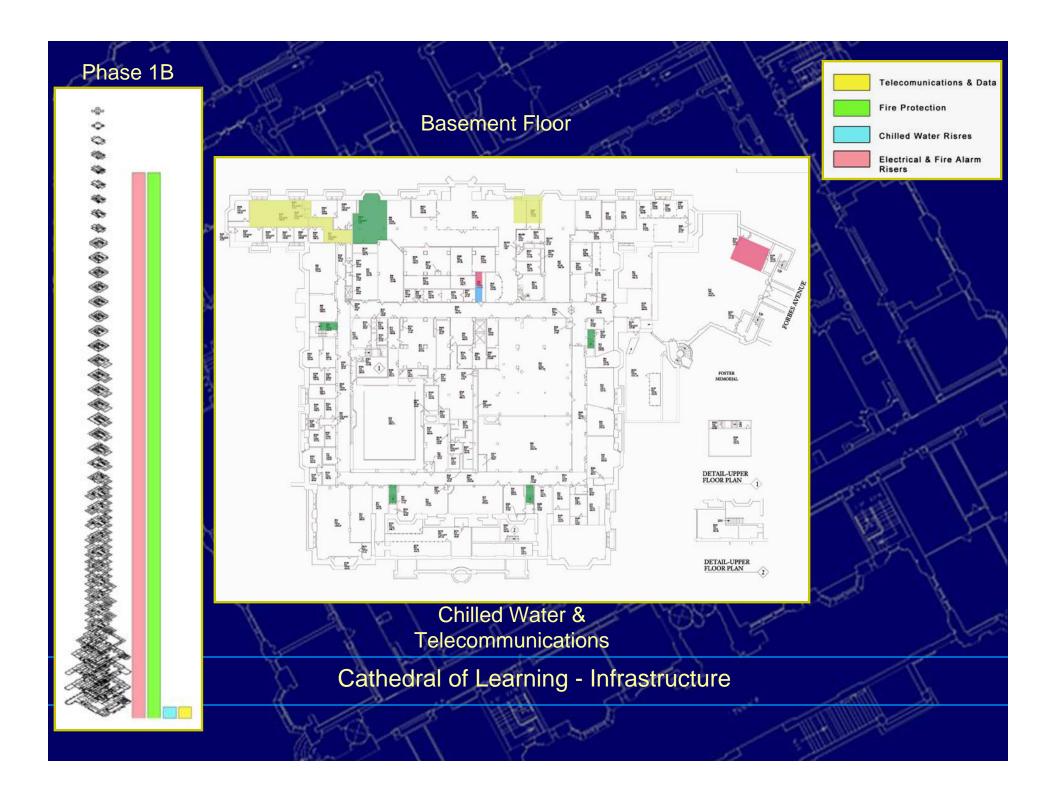
Cathedral of Learning Generator

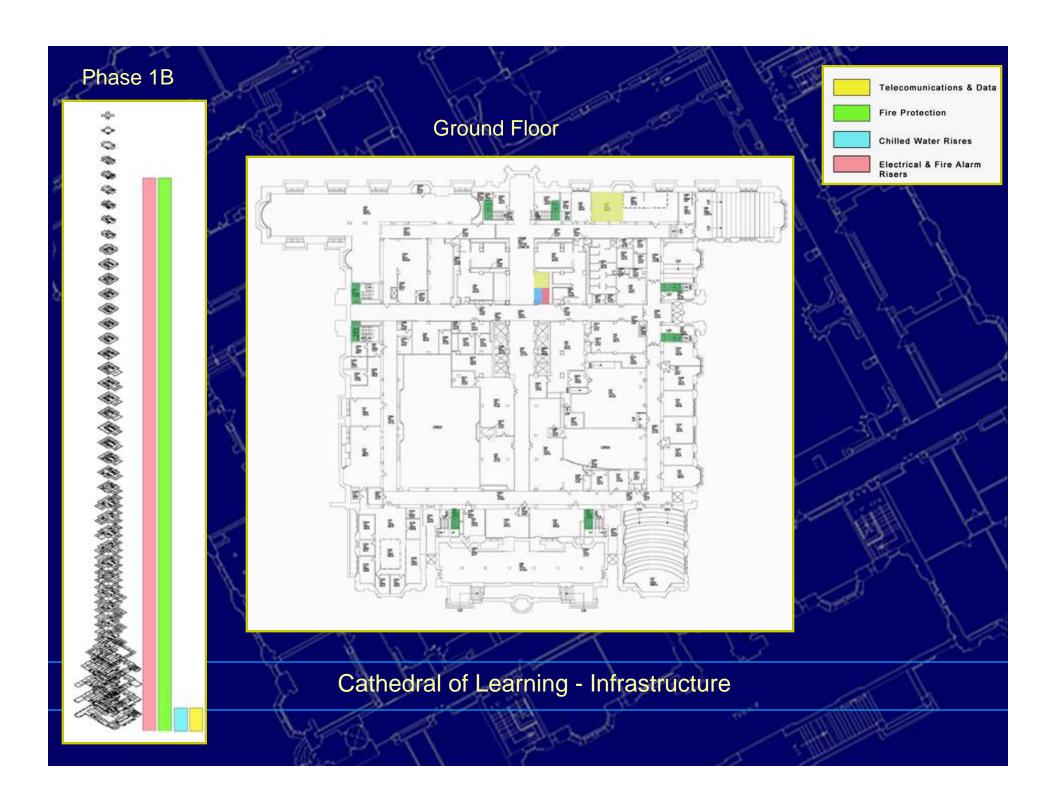


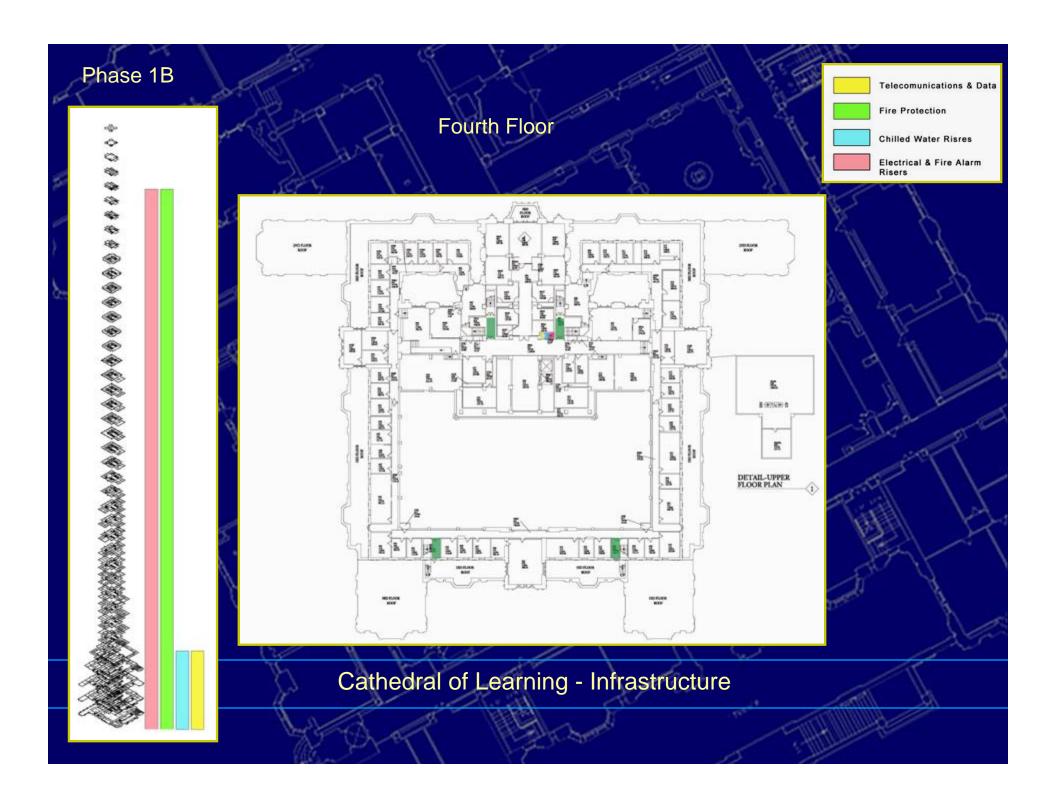


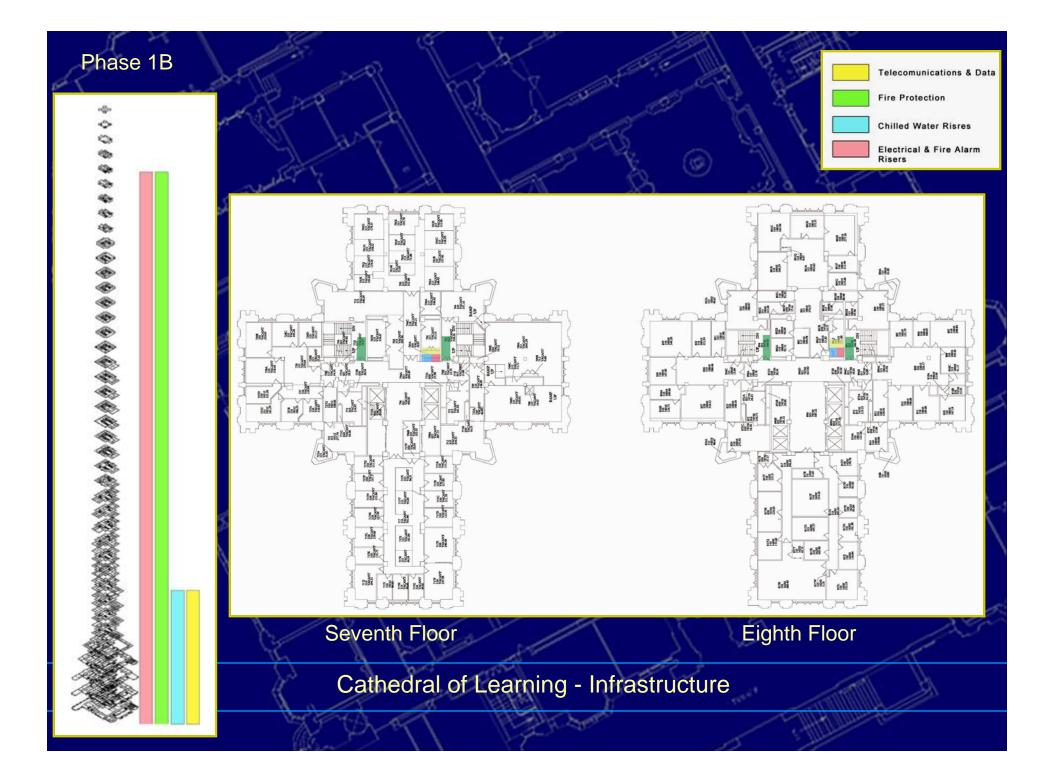


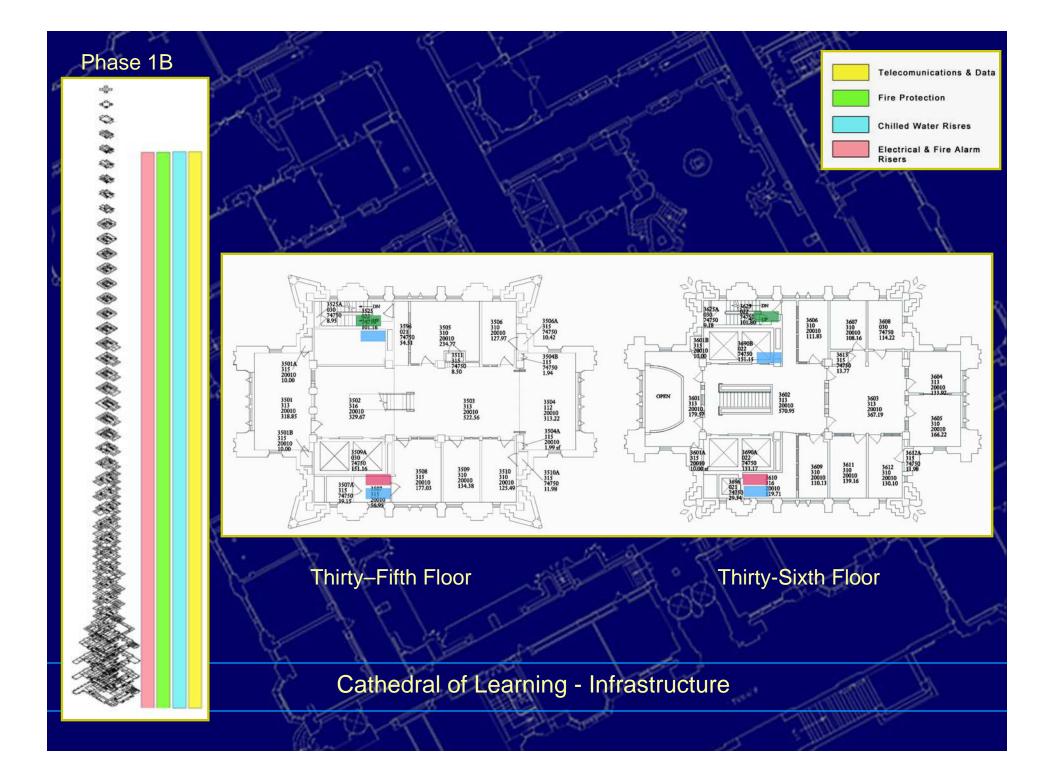










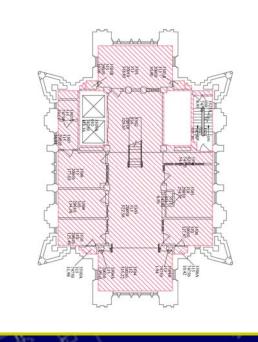


Cathedral of Learning Fourth Floor Plan - Fire Protection Key Plan

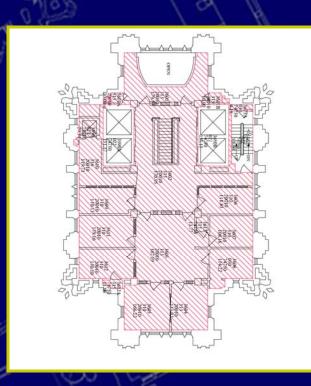
McCarl Center for Nontraditional Student Success 2002



Cathedral of Learning - Fire Protection



Thirty-Fifth Floor Plan



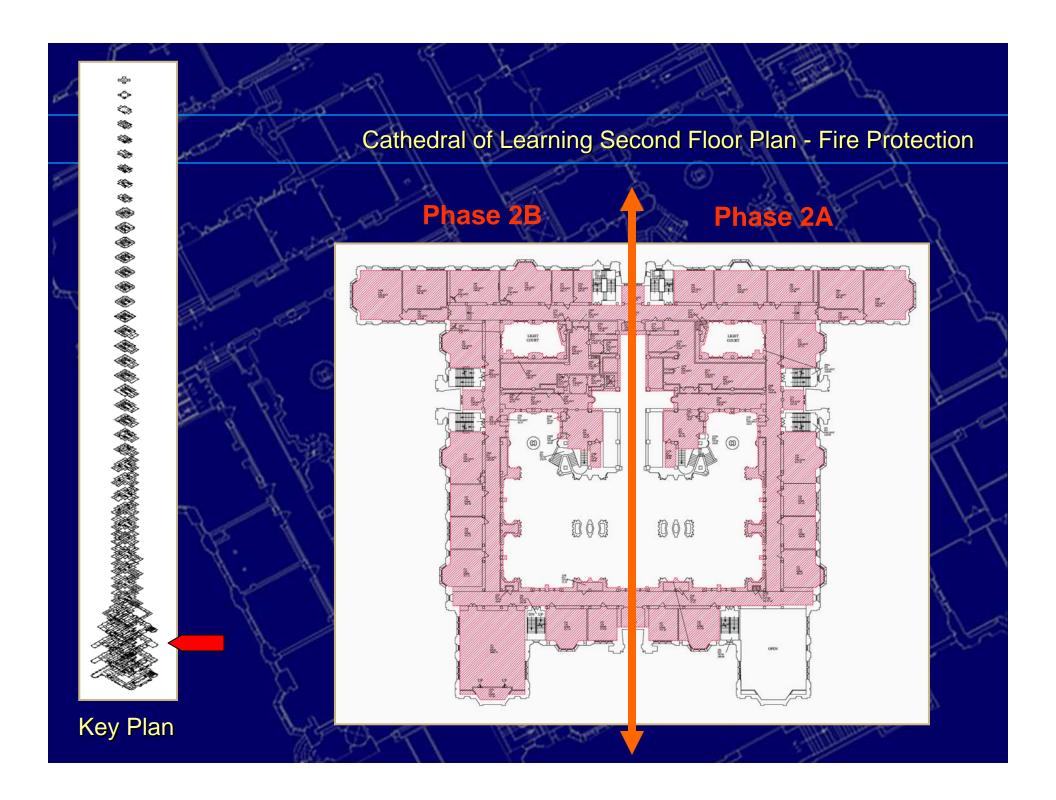
Thirty-Sixth Floor Plan Plan

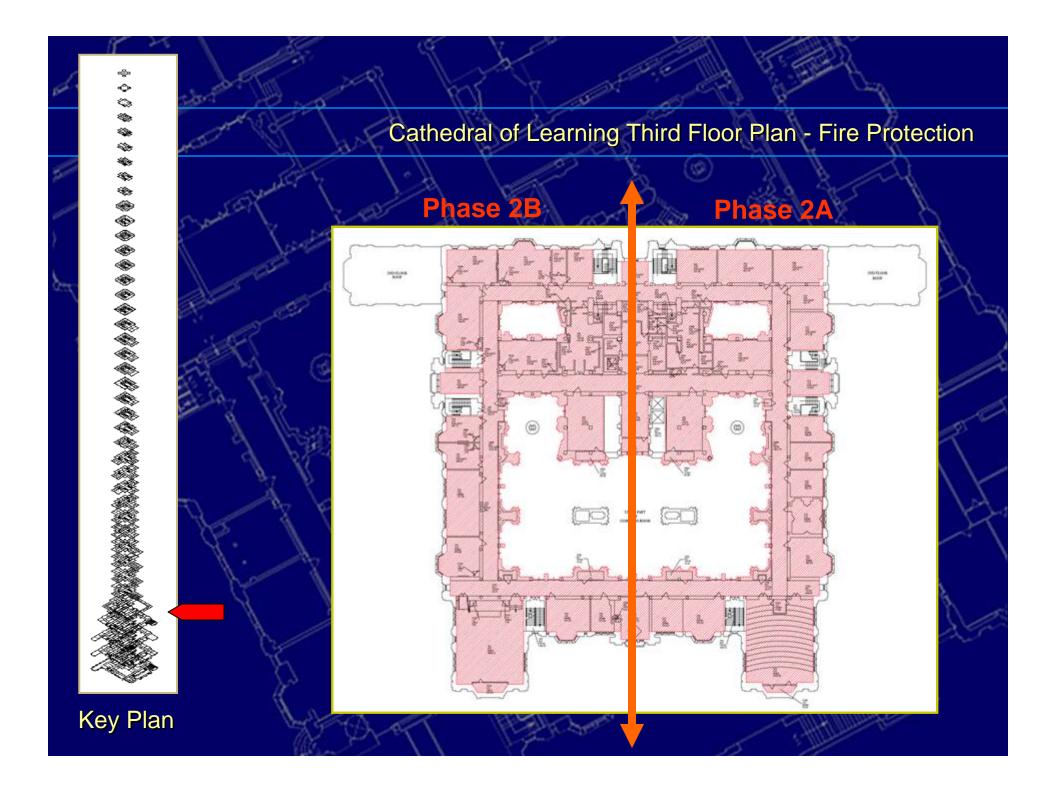






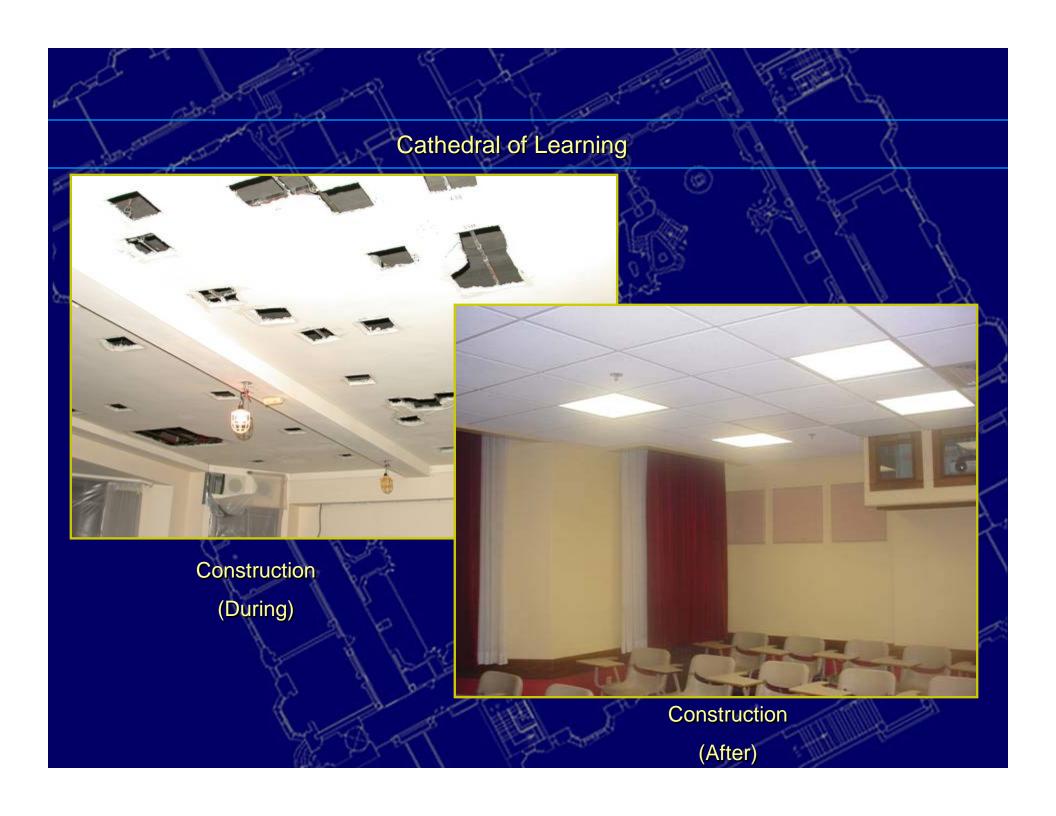
- •Separated Into Two Phases
- •Floors Two and Three
- •2A Eastern Half of Building
- •2B Western Half of Building
- •47 Classrooms
- Completed in December 2004
- •This Phase involved over 81,200 NSF of Area at a Cost of \$3,410,000; \$42.00/SF

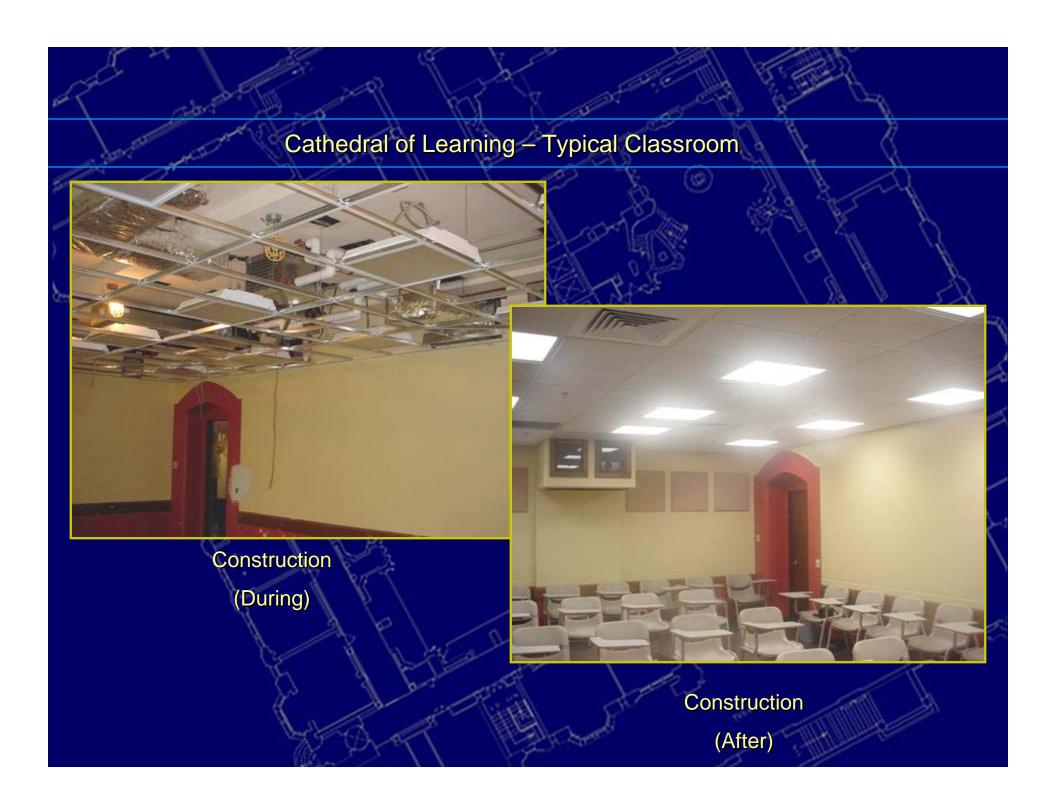






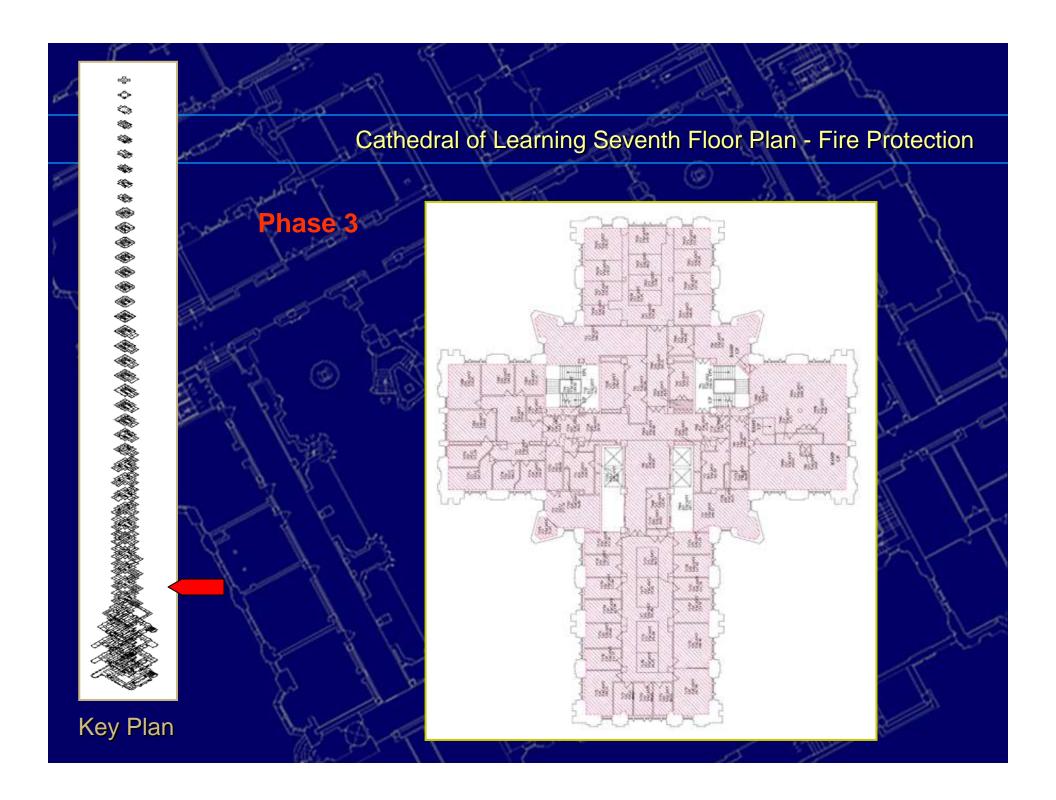




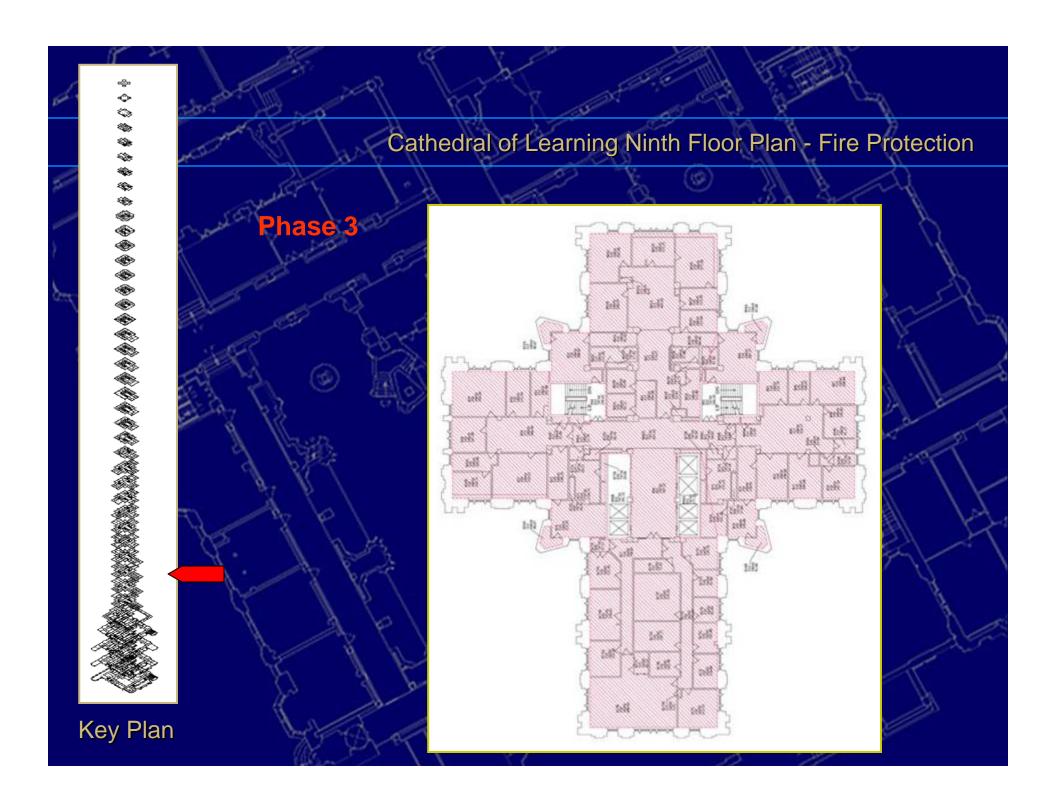




- •Administrative Areas on Floors 7,8 & 9
- •Areas Provided with Central Air, Fire Protection & Tele/Data
- •Completed in 2005
- •This Phase involved over 49,500 NSF of Area at a Cost of \$1,557,660; \$31.50/SF



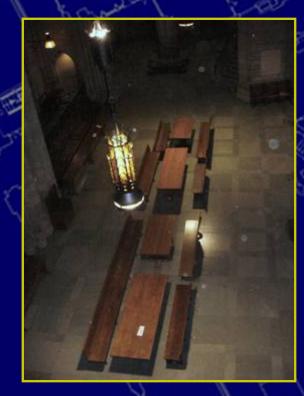
* * * * * Cathedral of Learning Eighth Floor Plan - Fire Protection refs. लामा मार \$255 Key Plan



Cathedral of Learning – Commons Room Lighting Restoration

- •12000 Square Foot of Area in Commons Room
- •Lighting Designed and Constructed by Philadelphia Artisan Samuel Yellin
- •In 2002 The University Retained the Services of Fisher, Marantz and Stone
- •Fixtures were Removed and Shipped to Crenshaw Lighting in Virginia
- Special Attention Paid to Up Lighting

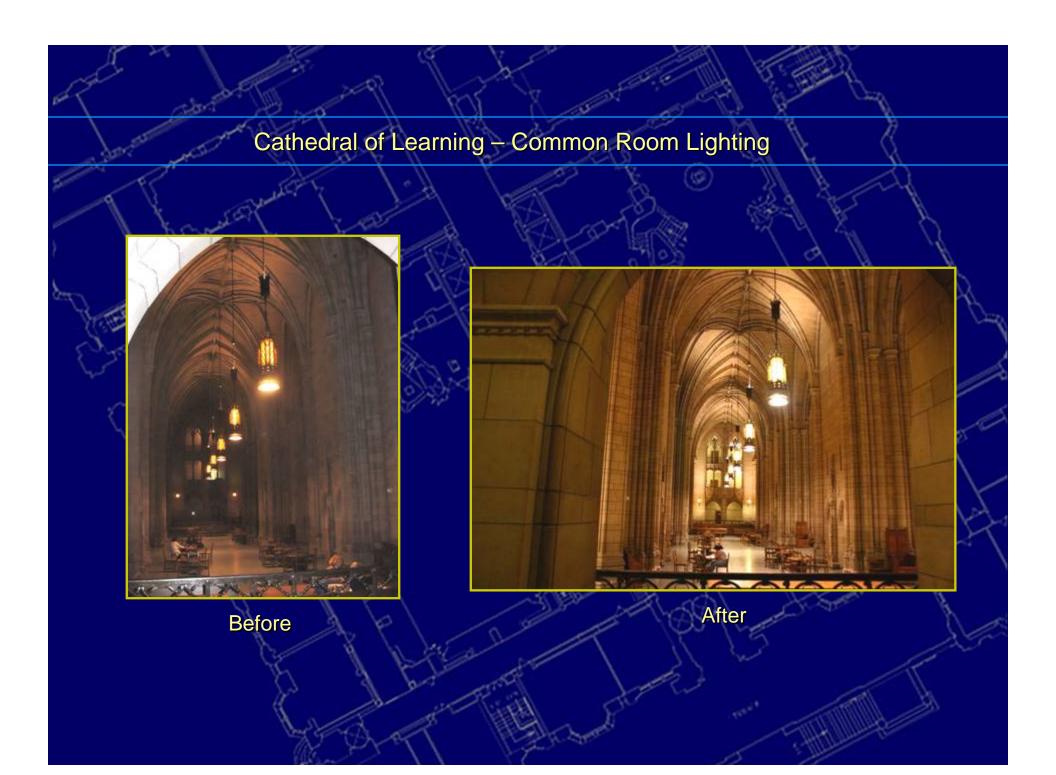
Cathedral of Learning – Common Room Lighting





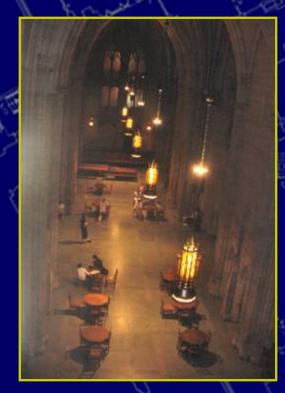
Before

After





Cathedral of Learning – Common Room Lighting

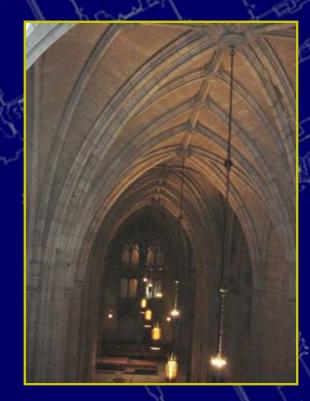


Before

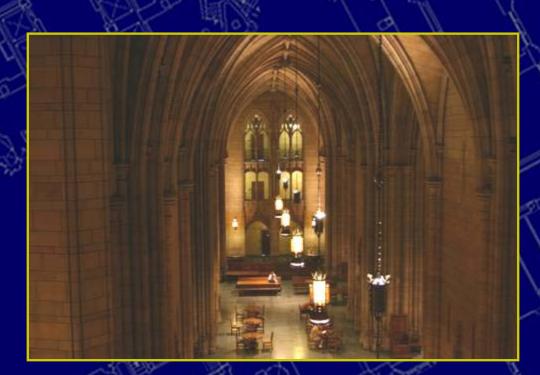


After

Cathedral of Learning – Common Room Lighting







After

Phase 1: Infrastructure		Area: 558,000 NSF
	Total	\$ / SF
Fees	\$294,200	
General Construction	\$680,000	\$1.22
HVAC	\$442,000	\$.79
Fire Protection	\$710,000	\$1.27
Electrical	\$568,000	\$1.02
Trades & Support	\$45,100	
Total	\$2,400,000	\$4.30

Phase 2: Floors 2 & 3	Area: 81,200 NSF
I Hase L. I Hours L G S	A1 Ca. 01,200 1

	Total	\$ / SF
Fees	\$107,900	
General Construction	\$914,000	\$11.26
HVAC	\$1,210,000	\$14.90
Fire Protection	\$128,800	\$1.60
Electrical	\$1,000,000	\$12.32
Trades & Support	\$137,100	\$1.69
Commissioning	\$157,300	\$1.94
Total	\$3,410,000	\$42.00

Phase 3: Floors 7, 8 & 9		Area: 49,500 NSF
	Total	\$ / SF
Fees	\$66,600	
General Construction	\$462,500	\$9.34
HVAC	\$727,800	\$14.70
Fire Protection	\$150,200	\$3.00
Electrical	\$184,500	\$3.73
Trades & Support	\$84,700	\$1.70
Commissioning	\$32,600	\$.66
Total	\$1,557,600	\$31.47

Summary: Total Costs

Phases 1, 2 & 3

Total

Fees \$468,700

General Construction \$2,056,500

HVAC \$2,379,800

Fire Protection \$989,000

Electrical \$1,752,500

Trades & Support \$266,900

Commissioning \$189,900

Total \$7,367,700

Summary: Total Costs

Phases 1, 2 & 3

Total

Fees \$468,700

General Construction \$2,056,500

HVAC \$2,379,800

Fire Protection \$989,000

Electrical \$1,752,500

Trades & Support \$266,900

Commissioning \$189,900

Total \$7,367,700



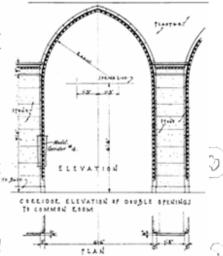
University of Pittsburgh

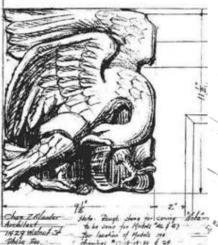
Facilities Management Division



Cathedral of Learning









Park Rankin, University Architect Senior Manager of Planning and Design