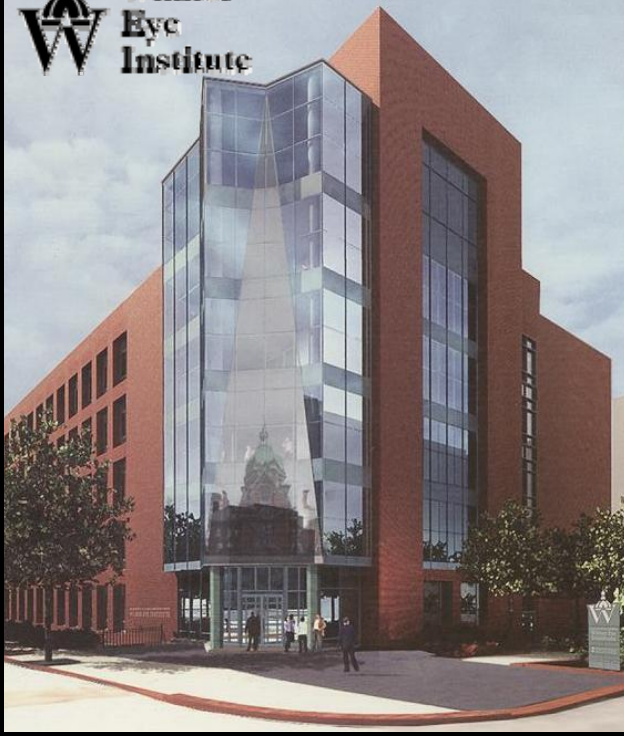




THE WILMER EYE INSTITUTE

Outpatient Surgery and Lab Building The Johns Hopkins Hospital Baltimore, Maryland



Architect.....	Wilmot Sanz
Design Architect.....	Ayers Saint Gross
General Contractor.....	The Whiting-Turner Contracting Company
Civil Engineering.....	Rummel Klepper Kahl Engineers
Structural Engineering.....	Cagley & Associates
MEP Engineering.....	RMF Engineering
Laboratory Design.....	SST Planners
Code Consultant.....	Schirmer Engineering
Geotechnical.....	Schnabel Engineering

BUILDING STATISTICS

- 200,000 GSF, 1.6 Acre Site
- \$65M Construction, \$92M Total
- 6 Storeys w/ Mech Core Basement
- Design-Bid-Build w/ GMP Contract
- Outpatient Surgical Center, Offices, Lobby, and Research Laboratories

[HTTP://WWW.ENGR.PSU.EDU/AE/THESIS/PORTFOLIOS/2008/TMS349/](http://www.engr.psu.edu/ae/thesis/portfolios/2008/TMS349/)

ARCHITECTURAL

- Reflective glass curtain wall over the entrance reveals the reflection of the former Wilmer building as you enter (as seen in image above).
- Central atrium/skylight in lobby extends from first floor to roof of building.

CONSTRUCTION

- An existing paved parking lot and spread footings from a prior structure will need to be removed during excavation.
- Scope of work includes the construction of an 8'x10' underground pedestrian/utility tunnel connecting to an adjacent building.
- All sides of site will be shored with drilled soldier piles and wood lagging.
- An existing MTA metro tunnel running under North Broadway will require special sheeting and shoring considerations.
- Partial reconstruction of Orleans and Broadway streets is anticipated.
- Top two floors are core-and-shell only.

MECHANICAL

- Separate air handling systems for lab, clinical and office spaces, all VAV.
- Water supply systems are designed to utilize energy recovery wheels.
- Four 44,000 CFM 100% outdoor air industrial grade air handling units serve each of the three spaces.
- Four 66" diameter 70,000 CFM SWSI laboratory exhaust fans located on the roof discharge at 10' above the roof line.

STRUCTURAL

- Cast-In-Place (CIP) concrete structure
- Mildly-reinforced two-way plate system
- Earth-formed spread footings
- Structurally designed for future addition of three additional floors

ELECTRICAL

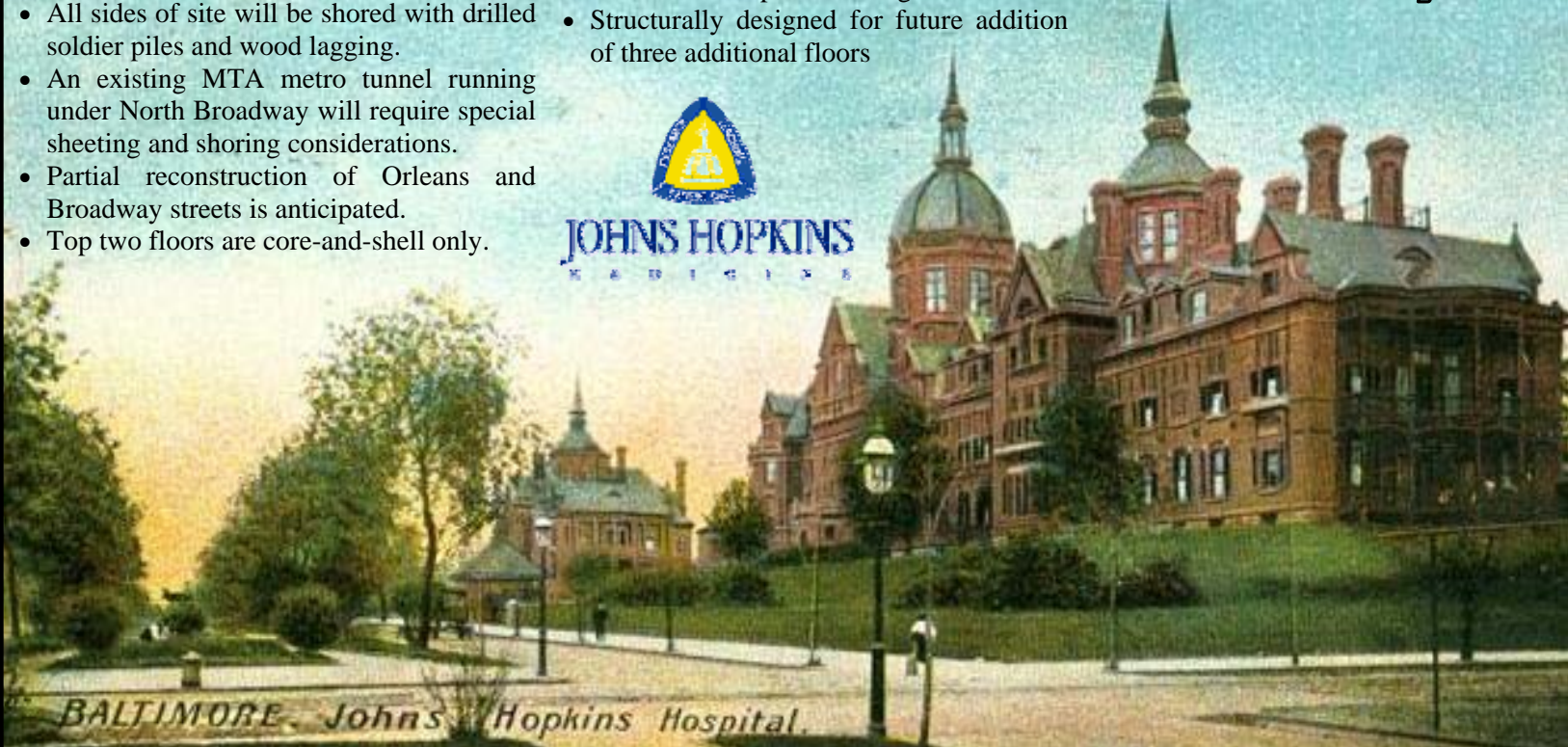
- Two 13.2 KV, #4/0 shielded feeders rated for 15 KV supply normal power
- Double-ended substation transforms feeder service to 480/277V, 3 phase, 4 wire for distribution through building
- 300 KVA transformer on each floor
- Full emergency power, isolated ground, transient voltage surge suppression, lightning protection, telecom and security systems in place

Tyler M. Smith

Construction Management



JOHNS HOPKINS
HOSPITAL



BALTIMORE Johns Hopkins Hospital