WestEnd25

1229-1231 25St. NW

Charles Miller – Construction Management

Consultant – Dr. Riley

Draft Presentation Outline



WestEnd25

Charles Miller Architectural Engineering Construction Management



Project Overview

Owner: Vornado-Charles E. Smith Location: 1229-31 25th St. NW

Washington D.C. 20037 Total Square Feet: 323,380 sq. ft.

General Contractor:

James G. Davis Construction Corp. Project Delivery: Negotiated GMP Project Cost: \$76 million

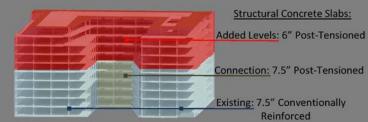
Architecture



Metal Panels Brick Facade Architects: Shalom Baranes Associates Architects

Exterior Façade: The architectural design of WestEnd25 developed from the two existing office buildings. The footprint of WestEnd25 resembles a U shape facing the adjacent NW 25th Street. West End 25 stands ten stories tall and contains 283 luxury apartments. The two prime Curtain Wall landscaping features of WestEnd25 are the entrance courtyard and the roof top. The courtyard features an entrance colonnade and a water fountain. The roof features a pool, terraces and vegetation.

Structural



Structural Engineer: Tadjer Cohen Edelson Assoc. WestEnd25 is supported by spread footings. The existing superstructure of WestEnd25 consists of conventionally reinforced concrete with a 20' by Connection: 7.5" Post-Tensioned 20' column grid. The 1229 and 1231 buildings are connected by a 7" post-tensioned concrete slab. The additional floors maintain the 20' by 20' column grid and primarily have a post-tensioned concrete slab thickness of 6".

Mechanical, Electrical and Lighting



MEP Engineers: GHT Limited

The apartments of WestEnd25 are conditioned by water cooled heat pump unit. To increase efficiency for the public conditioning system, two enthalpy wheels transfer heat between exhaust air and outdoor air. Power will enter WestEnd25 from two locations. The high power, 3 phase 460 Volt, will enter the 1231 building and the low power, 3 phase 240 volt, will enter 1229 building. Apartment lighting utilizes track lighting for kitchens and living areas and recessed fluorescent lighting for bedrooms, bathrooms and walk-in closets.







WestEnd25





www.engr.psu.edu/ae/thesis/portfolios/2009/cmm5035

Draft Presentation Outline – AE Senior Thesis

Three slide presentation. Introductions include criteria for evaluation.

- 1. Introduction (2 slides)
 - a. Self
 - b. Project
 - c. Presentation Outline
- 2. Project Background (1 slide)
 - a. Location
 - b. Cost
 - c. Building Stats
- 3. Concrete Placement (4 slides)
 - a. Introduction
 - b. Original Method
 - c. Suggested Method
 - d. Analysis
 - i. Schedule
 - ii. Cost
 - e. Recommendation & Conclusion
- 4. Precast Façade (9 slides)
 - a. Original Façade
 - b. Suggested Façade
 - c. Analysis
 - i. Introduction
 - ii. Schedule
 - iii. Cost
 - iv. Thermal Resistance (Breadth 1 = 3 slides)
 - 1. Introduction
 - 2. Hand Calculations
 - 3. Computer Calculations
 - 4. Recommendation & Conclusion
 - v. Structural Analysis (Breadth 2 = 3 slides)
 - 1. Introduction
 - 2. Analysis Method
 - 3. Analysis Results
 - 4. Recommendation & Conclusion
 - d. Recommendation & Conclusion
- 5. Spatial Planning (3 slides)
 - a. Introduction
 - b. Concept



- c. Workflow
- d. Results
- e. Recommendation & Conclusion
- 6. LEED (Critical Industry Issue = 4 slides)
 - a. Introduction
 - b. Survey
 - c. Pamphlet
 - d. Conclusion
- 7. Acknowledgements (1 slide)
- 8. Questions (1 slide)

Estimated Total = 25 slides

Estimated Duration = 12.5 minutes