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BAE/MAE 5th Year
Advisor Dr. Lepage
Thesis, Spring 2010

Outline (3 screen presentation)

1. Introduction (2 slides)
 - a. Myself
 - b. 300 North LaSalle
 - Design Team
 - Construction Dates
 - Height, sq.ftg, and cost
2. Existing Structure (4 slides)
 - a. Foundation
 - b. Gravity
 - c. Lateral System
 - Core
 - Trusses
3. Goals (1 slide)
4. Lateral Redesign (8-10 slides)
 - a. Things to consider (1 slide)
 - Symmetry, drift, acceleration, impact on architecture, etc.
 - b. 1st Iteration (2 slides)
 - Goal, Configuration, Results
 - Analysis per checklist of things to consider
 - c. 2nd Iteration (2 slides)
 - Goals, Configuration, Results
 - Analysis per checklist of things to consider
 - d. Final Design (4 slides)
 - Goals, Configuration, Results
 - Design of Coupling Beams
 - Design of Pier Reinforcement
 - Analysis per checklist of things to consider
5. Architectural Breadth (2-4 slides)
 - a. Impact of new core design
 - b. Re-assignment of vertical circulation
 - c. Transition of HVAC

- d. Floor space gained
 - e. Fire Protection
- 6. Acoustical Breadth(1-2 slides)
 - a. Noise Criteria Requirement
 - b. STC of new core wall
 - c. Additional issues
 - d. Construction recommendations
- 7. Final Conclusion (1 slide)
- 8. Questions (1 slide)