

Presentation Outline

- I. Introduction to project and self (**1 slide**)
- II. Building Introduction (**6 slides**)
 - a. Statistics
 - b. Project team
 - c. Existing Structural System
- III. Problem Statement (**1 slides**)
 - a. What is the scenario?
- IV. Proposed Solution (**1 slides**)
 - a. What is the solution?
 - b. Develop a linear “line” solution to show how a potential solution was thought through
- V. Gravity Redesign (**10 slides**)
 - a. Queen Post Girder
 - b. Floor System Selection
- VI. Lateral Redesign (**5 slides**)
 - a. Concrete cast-in-place shear walls
 - b. Discuss load paths
 - c. Discuss relationship to steel plate shear walls in existing design
- VII. Mechanical (**5 slides**)
 - a. Sizing ductwork TO FIT QUEEN POST GIRDER!
 - b. Envelope study
 - i. Elimination of thermal bridge on fourth floor
- VIII. Architectural (**4 slides**)
 - a. Redesign vs. Existing render
 - b. How does the new structural system impact the architecture?
- IX. Conclusion (**4 slides**)
 - a. Where the goals met?
 - b. Overall conclusion
 - c. Acknowledgements
- X. Appendices (**as required**)
 - a. Include honors section here (?) Timber concrete composite systems

37 slides