DESIGN OF A LARGE SCALE STRUCTURE

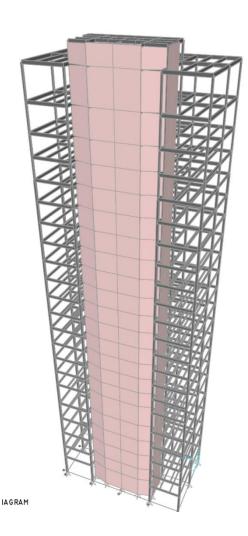


Presented by: Carmen Aguilar-Wedge Namrata Hegde Shuaib Hadi

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DESIGN OF A LARGE SCALE STRUCTURE



- •PROJECT BACKGROUND INFORMATION & OVERVIEW
- •TEAM ORGANIZATION
- PROJECT ORGANIZATION
- PROGRESS
- •FUTURE GOALS

• • • IPRO 315 DESIGN OF A LARGE SCALE STRUCTURE

BACKGROUND INFORMATION & OBJECTIVES

Spring 2009

Preliminary Design. Analysis found structural deficiencies.

Fall 2009

The 22 story hotel will be re-designed and analyzed. The team will be producing various design and structural drawings representative of the project and operation of the building.

DESIGN OF A LARGE SCALE STRUCTURE

STRUCTURAL

ARCHITECTURAL

PHASE 1

- SAP2000 MODEL
- LOAD CASES
- PRELIMINARY STEEL DESIGN
- FLOOR PROGRAM
- FLOOR PLANS
- FINALIZE DESIGN

PHASE 2

- FINALIZE LOADS
- FINALIZE MODEL
- DESIGN STEEL
- FOUNDATION

- GREEN ROOF DESIGN
- FAÇADE DESIGN
- AESTHETIC DESIGN
- FINALIZE SCHEDULE

PHASE 3

 FINALIZE SCHEDULE FINILIZE PLANS SCALE MODEL

DESIGN OF A LARGE SCALE STRUCTURE

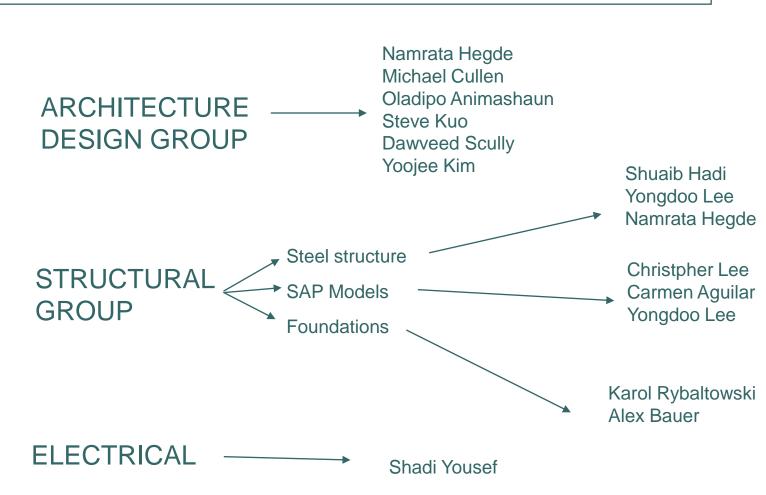
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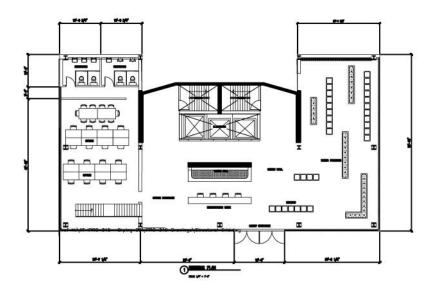
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DESIGN OF A LARGE SCALE STRUCTURE

PROGRESS

ARCHITECTURAL

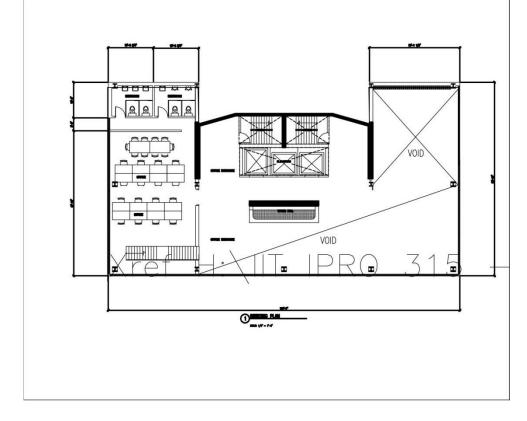


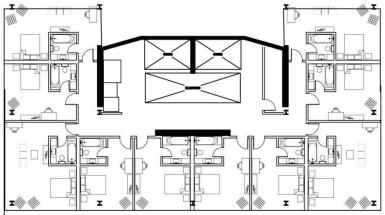
MOVED THE CORE INORDER TO ACHIEVE BUILDING FLOOR EFFICIENCY AND ALSO SOLVE THE STRUCTURAL DEFICIENCIES

ROOF ROOF TYPICAL SHITES TYPICAL SUITES YPICAL SHITES TYPICAL SUITES TYPICAL SUITES YPICAL SUITES **TYPICAL SUITES CONFERENCE BALLROOM** RESTAURANT OFFICES/BAR **LOBBY**

BUILDING FLOORS

N S R S







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- Dead and live loads have been calculated
- SAP Modeling in Progress
- Structural calculations using Matcad were done to design a composite beam system

STRUCTURAL

- Preliminary Design of Structural members is in progress
- CAD Drawings of each floor is in progress

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 Continued collaboration among team members to fix Structural deficiencies

- Design of Load bearing members
- Design of a foundation system
- Fix torsional problem if it may arise

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