

Mark Zuidema

Mechanical Option

Advisor: Dr. Stephen Treado

5/6/10

#### PRESENTATION OUTLINE

- I. Rady School of Management Introduction (2 Slides)
  - a. Introduction – Building Name, Option, Advisor
  - b. Rady School of Management Background – Location, Construction Dates, Size
  
- II. Existing Mechanical System (7 Slides)
  - a. Introduction – System Type and Components
  - b. Chilled Water and Hot Water Loops
  - c. First Cost Analysis
  - d. Building Loads
  - e. Utility Rates and Consumption
  
- III. Mechanical Depth (17 Slides)
  - a. Design Objectives
  - b. System Description
  - c. Outdoor & Indoor Design Conditions
  - d. Supply Air Conditions
  - e. Sensible Loads
  - f. Pumping Requirements
  - g. Cooling and Heating Coil Loads
  - h. Air Flow Requirements
  - i. System Components
  - j. First Cost Analysis
  - k. Energy Consumption & Cost of Operation
  - l. Conclusion
  
- IV. Electrical Breadth (3 Slides)
  - a. Existing Connection Schedule
  - b. New Equipment Connections