- I. Introduction
- A. Introduce Myself and What I will be Talking about today (1)
- B. Building location, design team, function (1)
- C. Existing Mechanical Overview (1)
- II. <u>Proposal/Objective</u> (2)
 - A. Increase sustainable footprint include green technologies/lower emissions/Schools Guide
 - B. Use energy recovery (non on current system)
 - C. Supply necessary ventilation VAV's are problematic when turned down
- III. Depth Mechanical
 - A. DOAS/Total Energy Wheel (2)
 - Reduction in CFM and Savings of Wheel
 - B. FPIU (3)
 - o How it works/Provide Constant Ventilation Air Needed
 - Show Psychometric Chart for Chilled Water Temperature
 - C. New Chillers and Secondary Chilled Water Loop (2)
 - o Purpose
 - Schematic/How it Works
 - D. MAE CFD (4)
 - E. Results (2)
 - Cost Savings
 - Energy Savings
- IV. <u>Breadth Electrical</u>
 - A. Roof Layout before and after (1)
 - B. Solar Panels/Mounting System used why and background (1)
 - C. Schematic of Back Feed (1)
 - D. Payback Analysis and Added Structural Costs (1)
- V. <u>Conclusions</u>
 - A. LCC Analysis & Recommendations (1)
 - B. Acknowledgments: (1)
 - o Contacts: Patrick Murphy, Chris Bratz, Carter Tse, and Sharvil Patel
 - Manufacturers: Tim Dorman, David Cunningham, and Justin Anderson
 - Advisor and Faculty
 - Fellow Students
 - \circ Family/friends
 - C. Questions (1)

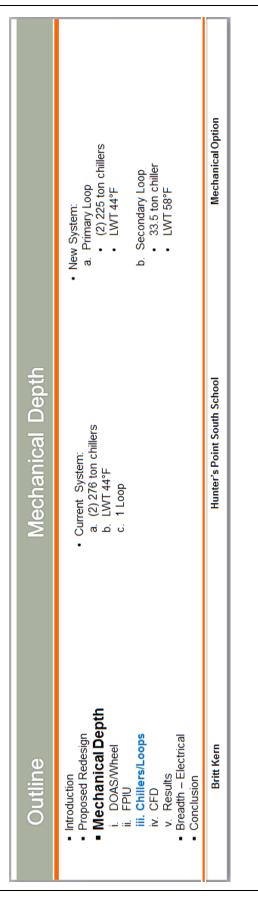
Total Slides: 25



Outline	Intr	Introduction	
 Introduction Building Summary Existing Mechanical Proposed Redesign Mechanical Depth Breadth - Electrical Conclusion 	Size: Occupancy: Levels: Cost: Construction Dates: Project Team Architect: Structural MEP: CM:	153,769 sf IM/HS Schoolhouse 5 Stories/No Cellar/Penthouse \$61,098,000 Jan 10,2011 to Oct 7,2013 FXFOWLE Architects Y sreal A. Seinuk Kallen & Lemelson Skanska	
Britt Kern	Hunter'	Hunter's Point South School	Mechanical Option



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