

#### THESIS PRESENTATION OUTLINE

The Pennsylvania State AE Senior Thesis

### **Duval County Unified Courthouse Facility**

Jacksonville, Florida

Darre'll Alston

**Construction Management** 

**Advisor: Rob Leicht** 

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#### Darre'll Alston – Construction Management

Dr. Robert Leicht – AE Advisor

- I. Project Background (1)
- II. Problem Statement (1)
- III. Proposal Statement (1)
- IV. Analysis 1: Precast Concrete Floor Planks (2)
  - a. Structural Breadth (2)
  - b. Cost & Schedule Comparison (2)
- V. Analysis 2: SIPS Schedule (1)
  - a. Schedule Analysis (1)
  - b. Acoustical Breadth (3)
- VI. Analysis 3: Financial Awareness (1)
  - a. Financial Status (1)
  - b. Financial Programs (1)
- VII. Conclusion (4)
- VIII. Acknowledgements (1)

## The Duval County Unified Courthouse Facility

Jacksonville, Florida



The Pennsylvania State University AE Capstone Project

Darre'll Alston – Construction Management

Dr. Robert Liecht – CM Advisor

- I. Project Background
- II. Analysis 1: Financial Awareness
  - I. Financial Status
- II. Financial Allocation Cycle
- III. Analysis 2: Risk Management
  - I. Failures and Liabilities
  - II. Risk Treatments
- IV. Analysis 3: Precast Concrete Floor Planks
  - I. Structural Breadth
  - II. Architectural Breadth
  - III. Cost Comparison
- V. Analysis 4: SIPS Schedule
  - I. Main Contributors
  - II. Schedule Savings
- VI. Conclusion
- VII. Acknowledgments

## Financial Awareness

Problem Statement:

Current Standing:

### **Interview Citations:**

Chart and Picture of Financial Stats

- I. Project Background
- II. Analysis 1: Financial Awareness
  - I. Financial Status
- II. Financial Allocation Cycle
- III. Analysis 2: Risk Management
  - I. Failures and Liabilities
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## Structural Breadth

Span Length: Span Pictures: Load Calculations: Picture of Plank:

Interview Citations:

Conclusion:

- I. Project Background
- II. Analysis 1: Financial Awareness
  - I. Financial Status
- II. Financial Allocation Cycle
- III. Analysis 2: Risk Management
  - I. Failures and Liabilities
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- IV. Analysis 3: Precast Concrete Floor Planks
  - I. Structural Breadth
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# Architectural Breadth

Problem Statement: Picture of Nev

Finish Feasibility Study:

Connectivity Options:

Picture of New Plank:

Interview Citations:

Conclusion: