



## Table of Contents

### **Cover Sheet**

### **Abstract**

### **Table of Contents**

### **Executive Summary**

### **Project Information**

Background.....	1
Owner Information.....	1
Project Delivery System.....	2
Staffing Plan.....	3
Project Location/ Local Conditions/Site Layout.....	6
Summary Schedule.....	8
Architecture & Systems Descriptions.....	11
Project Costs.....	13

### **Implementation of Building Information**

### **Modeling at the Construction Phase-Depth.....14**

Background	
Research Method	
Interview Results	
Model Development	
Contractual Language	
On-Site Coordination Meetings	
Example Clash Detection Reports	
RFI Impact	
Model Updates & Shop Drawing Submissions	
Application to TETC Project	
Conclusion	



**Pre-fabricated Metal Stud Crete® Panels**

**Structural Breadth**.....28

- Background
- Methods
- Resources
- Proposed System
- Schedule & Cost Comparison
- Connection Details
- Structural Impact
- Conclusion

**Alternative Grade Beam Placement Method**.....37

- Background
- Goal
- Methods
- Resources
- Results
- Cost Analysis
- Labor & Schedule Savings
- Conclusion

**Acoustical Analysis of Interior Partitions**

**Breadth**.....42

- Background
- Resources
- Methods
- Results & Cost
- Conclusion

**Technical Analyses Conclusions**.....48

**Acknowledgements**.....49

**Appendices**

- A- Spandrel Beam Calculations.....50
- B- Acoustical Calculations & Partition Details.....64
- C- Site Plans.....68