

Agenda

Presented by George Lueck, P.E.

What is Roadway Construction Project Management?

- Project success factors
- Responsibility matrix
- Budget and schedule management
- Construction management resources
- Overview of Texas DOT Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges (Items 1-9)

Construction Administration

- Pre-award and post-award activities
- Job records
- Control of work and materials
- Changes to the contract
- Disputes and claims
- Measurement and payment
- Environment
- Health and safety
- Local government contract oversight
- Forms and documents

Local Government Project Procedures

- Letting and contract award phase
- Project close-out and maintenance
- Construction phase

Major Components of Construction Inspection

- Plan approvals
- Notification
- Maintenance of traffic
- Specifications
- Compliance
- Construction stakeout
- Erosion and sediment control
- Clearing
- Drainage structures
- Grading
- Temporary stabilization
- Field changes and alterations to construction plans
- Subgrade stakeout
- Final acceptance and testing
- Subgrade inspection
- Concrete inspection
- Permanent stabilization
- Traffic control signs
- Pavement markings
- Stakeout for asphalt base course
- Fine grade inspection
- Base course asphalt
- Shoulder adjustment
- Surface course asphalt
- Utility installation

Material Sampling and Testing

- Quality control/quality assurance
- Guide schedule for material and samples
- Test procedures

Additional Inspections

- Traffic control inspection
- Stormwater Pollution Prevention Plan (SWPPP) inspection
- Americans with Disability Act (ADA) inspection

Project Scheduling

- Critical path method
- Accelerated construction strategies

Construction Claims and Disputes

- Texas and local government processes and procedures
- Best practices

Roadway Construction Project Management
Houston, TX - Tuesday, June 26, 2018



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Learning Objectives

You'll be able to:

Determine project success factors and create a responsibility matrix.

Review Texas DOT standard specifications.

Learn practical techniques for managing the budget and schedule.

Receive an overview of key issues in construction administration.

Handle the major components of construction inspections, including concrete, construction stakeout, concrete and base course asphalt inspections.

Identify best practices for handling construction claims and disputes.



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Learn how to manage the project budget and schedule
Discuss job records, control of work and materials, changes to the contract, and other construction administration activities

Understand the major components of construction inspections
Discuss material sampling and testing
Discuss best practices for handling construction claims and disputes

Continuing Education Credits

Professional Engineers
6.5 PDHs

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Faculty

George Lueck, P.E. is a consultant for a small transportation engineering firm based in Austin, Texas. He oversees transportation capital improvement projects; transportation planning; pedestrian, bicycle and traffic solutions; and construction project claims and dispute resolution. Mr. Lueck has worked extensively with public and agency outreach, transportation plans of various modes; and regional and corridor-level plans/programs. He is experienced in environmental planning and approval, economics and finance, and project design and development along with construction management, operations, and maintenance.

Mr. Lueck has 17 years of experience with the Texas Department of Transportation (TxDOT). He started his career performing design and surveying for a variety of roadway projects ranging from farm-to-market roads, urban roadways and high design speed facilities in the Waco district. He later transferred to the construction division, where he provided oversight to statewide districts in the areas of construction project management, construction engineering, inspection and contract claims. After serving in this capacity for over nine years, Mr. Lueck transferred to the transportation planning division. As assistant director of traffic analysis, he oversaw transportation data collection and reporting, corridor-level plans, and travel demand modeling. Mr. Lueck then served the City of Killeen for 11 years as assistant city engineer and director of transportation. He had oversight of all operation of the city's transportation system. He was also charged with ensuring that the city's transportation system was planned, constructed and maintained in a cost-effective manner to effectively address the region's growing safety, mobility and reliability needs.

Seminar Information

Marriott West Loop - By the Galleria
1750 West Loop South
Houston, TX 77027
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Tuition
\$279 for individual registration
\$259 for three or more registrations.
Each registration includes a complimentary continental breakfast and printed seminar manual.

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- National Electrical Code: Onsite Power Generation and Distribution**
- **National Electric Code: Onsite Power Generation and Distribution Part 1**
Weds., June 6, 2018, 11:00 AM - 2:15 PM CDT
 - **National Electric Code: Onsite Power Generation and Distribution Part 2**
Thurs., June 7, 2018, 11:00 AM - 2:15 PM CDT
- HVAC Series**
- **Heating, Ventilation and Air Conditioning Principles**
Thurs., June 7, 2018, 11:00 AM - 1:00 PM CDT
 - **HVAC System Design Considerations**
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 - **Evaluating HVAC Systems and Equipment**
Fri., June 8, 2018, 11:00 AM - 12:00 PM CDT
 - **HVAC System Controls and Techniques**
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- Introduction to Vibrations**
- **Introduction to Vibrations**
Thurs., June 14, 2018, 11:00 AM - 1:00 PM CDT
 - **Eigenvalues, Eigenvectors and Motion**
Thurs., June 14, 2018, 1:30 - 3:00 PM CDT
 - **Analysis and Test Methods**
Fri., June 15, 2018, 11:00 AM - 12:30 PM CDT
 - **Designing for Vibration and Failure Analysis**
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- Pedestrians and Bicycle Transport Planning**
- **Introduction to Current Conditions and Trends in Biking and Walking**
Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
 - **Engineering and Infrastructure: Design for Walkability and Bikeability**
Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
 - **Developing a Walking and Biking Plan, Part I**
Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
 - **Developing a Walking and Biking Plan, Part II**
Fri., June 22, 2018, 1:00 - 2:30 PM CDT
- Structural Forensic Engineering**
- **Introduction to the forensic Engineering Process**
Thurs., June 28, 2018, 11:00 AM - 1:00 PM CDT
 - **Causes and Failures and the Forensic Engineering Report**
Thurs., June 28, 2018, 1:30 - 3:30 PM CDT
 - **Forensic Examination of Structures and Use in Litigation**
Fri., June 29, 2018, 11:00 AM - 1:00 PM CDT

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