## Case Study Survey
*(Check List to be Used as a Guide for Project Submission)*

Provide Project Sketch or Picture.

| Project Summary | • Location  
|• Description  
|• Railroad(s) involved  
|• Construction Cost  
|• Construction Duration |

| Statement of Need | • Impact Statement  
|• Reason and Justification  
|  o Return on Investment  
|  o Company Directive  
|  • Political  
|  • Strategic |

| Project Understanding (Definition) | • Operating Plan  
|• Budget  
|• Schedule |

| Identify Stakeholders Railroad (Critical Dependencies) | • Train Operations  
|• Planning Department  
|• Finance Department.  
|• Sponsor (Operations, Mechanical, Marketing)  
|• Engineering Department  
|  o Track  
|  o Signal  
|  o Structures  
|• Environmental Department  
|• Real Estate Department  
|• Government Affairs  
|• Labor  
|• Joint Facilities (Other Railways) |
### Identify Stakeholders Non-Railroad (Critical Dependencies)

- Permitting Agencies
- Federal
- State
- Local
- Municipality
- Special Interest Groups
- Community Action Committee
- Citizen Advisory Committee
- Political Considerations

### Project Approach

- Feasibility Assessment
- Alternative Analysis
- Design
  - Railroad Engineering Staff
  - Outside Engineering Services
- Construction
  - Design-Bid-Build
  - Design-Build

### Key Project Elements

- Design Criteria
- Operating Parameters
- Project Design Team
- Detailed Project Schedule
- Funding Constraints
- Permitting Process
- Survey / Soil Boring Requirements

### Critical Design Considerations

- Hydrologic / Hydraulic Issues
- Geotechnical Issues
- Property Acquisition
- Community Involvement
- Utility Service Availability
- Grade-Crossing Considerations
- Construction Phasing
- Specifications
- Existing Utility Location

### Project Challenges

- Winter Construction
- Access
- Schedule
- Material Availability
# Case Study Survey
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<tr>
<th>Permitting</th>
<th>Equipment</th>
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<table>
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<tr>
<th>Lessons Learned</th>
<th>Scope change order</th>
<th>Specification changes</th>
<th>Coordination / logistical issues</th>
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<tr>
<th>Recipe for Success</th>
<th>Keys for success</th>
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<th>AREMA Reference #</th>
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