Decision Making During Project Development
FRA Office of Engineering and Project Development

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EXPECTATIONS:
What does FRA expect from Grantees?

• Achieving Service Outcomes (SOA)
  • Frequency, Run Time, and Reliability
• Satisfying Terms and Conditions of Cooperative Agreement with FRA
• Accountability/Project Controls
• Spirit of Partnering

Grantee makes DECISIONS to align with these.
Is the Grantee ready to BUILD?

- Cooperative Agreement with FRA
- Deliverables req’d by Coop. Agreement
- Preliminary Engineering Approval
  - FRA requires sign-off on project configuration
- Final Design Acceptance
  - In alignment with Cooperative Agreement and SOA
Project Development Stages

**Planning/Conceptual Engineering**
- Alternative Analysis Report
- Conceptual Engineering
- Operations Modeling
- Feasibility Studies
- Service Development Plans
- Equipment: Technical Specifications

**Preliminary Engineering**
- Preliminary Engineering Drawings and Specifications
- Preliminary Construction Cost Estimate
- Preliminary Project Schedule
- Draft As-Is Survey
- Operations Modeling (PE)
- Track, Signal and Crossing Configuration
- Project Management Construct Document
- Design/Build Program Plan
- Detailed Project Work Plan
- Equipment: Preliminary Drawings and Specifications
- Safety Requirements

**Construction**
- Project Management Plan (PMP)
- Quarterly Monitoring Reports
- Project Notifications
- Baseline Documentation
- Inspections (Site Visits)

**Final Design**
- Final Design Set (Drawings & Specifications)
- Construction Cost Estimate (FD)
- Detailed Construction Schedule
- Right-of-Way (ROW) and Relocation Plans
- Detailed Project Work Plan
- Project Management Plan (PMP)
- Equipment: Final Design Set
- Safety Requirements (FD)
Planning/Conceptual Engineering

- Alternative Analysis Report
- Conceptual Engineering
- Feasibility Studies
- Service Development Plans
- Equipment: Technical Specifications
Preliminary Engineering

- Preliminary Engineering Drawings and Specifications
- Preliminary Construction Cost Estimate
- Preliminary Project Schedule
- Draft As-Is Survey
- Operations Modeling (PE)
- Track, Signal and Crossing Configuration
- Project Management Construct. Documentation
- Design/Build Program Plan
- Detailed Project Work Plan
- Equipment: Preliminary Drawings and Specifications
- Safety Requirements
Key Decision

Which Project Delivery Method?
Selection and Contract Packaging

Design, Bid, Build
Design-Build
Final Design

- Final Design Set (Drawing and Specifications)
- Construction Cost Estimate (FD)
- Detailed Construction Schedule
- Right-of-Way (ROW) and Relocation Plans
- Detailed Project Work Plan
- Project Management Plan (PMP)
- Equipment: Final Design Set
- Safety Requirements (FD)
Construction

- Project Management Plan (PMP)
- Quarterly Monitoring Reports
- Project Notifications
- Baseline Documentation
- Inspections (Site Visits)
How does FRA assist in getting this done?

Oversight and Technical Assistance to Grantees

- Kickoff Meeting
- Over the Shoulder Reviews
- Risk and Value Engineering
- Policies and Procedures
- MTAC Contractors