Concept Development Phase
Work Breakdown Structure

- 2 Concept Development
  - 2.1 Concept Development Initiation
    - 2.1.1 Stakeholder Input
    - 2.1.2 Community Profile
    - 2.1.4 CD Schedule
    - 2.1.5 CD Fee Proposal
    - 2.1.6 Updated PRS
    - 2.1.7 Executed Task Order
    - 2.1.8 CD PIAP
    - 2.1.9 Updated Risk Register
  - 2.2 Concept Development Report
    - 2.2.1 Data Collection
      - 2.2.1.1 Field Inventory
        - 2.2.1.1.1 Drainage Inventory
        - 2.2.1.1.2 Existing Utilities Inventory
        - 2.2.1.1.3 Intelligent Transportation Systems Inventory
        - 2.2.1.1.4 Complete Streets Checklist
        - 2.2.1.1.5 Limited Scope CD Pavement Checklist
        - 2.2.1.1.6 Limited Scope CD Bridge Checklist
        - 2.2.1.1.7 Limited Scope CD Culvert Checklist
        - 2.2.1.1.8 Limited Scope CD Sign Structure Checklist
        - 2.2.1.1.9 Limited Scope CD Thin Surface Treatment Checklist
        - 2.2.1.1.10 Limited Scope CD Concrete Pavement Repair Checklist
      - 2.2.1.2 Travel Projections
      - 2.2.1.3 Drainage Area Maps
      - 2.2.1.4 Purpose and Need Statement
      - 2.2.1.5 Environmental Data Collection
      - 2.2.1.6 List of Substandard Design Elements
      - 2.2.1.7 Environmental Screening Report
      - 2.2.1.8 Management System Input
      - 2.2.1.9 Traffic Data
      - 2.2.1.10 Crash Data
      - 2.2.1.11 Utility Contact Letter
      - 2.2.1.12 As-Built Plans
      - 2.2.1.13 CD Mapping
      - 2.2.1.14 Aerial Photos
      - 2.2.1.15 Geodetic Survey Report
        - 2.2.1.15.1 Ground Control and Field Surveying
    - 2.2.2 Coordination with Internal/External Stakeholders
    - 2.2.3 Data Analysis
    - 2.2.4 Final Purpose and Need Statement
    - 2.2.5 Alternative Analysis
      - 2.2.5.1 Alternatives
      - 2.2.5.2 Alternatives Matrix
      - 2.2.5.3 Reasonable Assurance for a Design Exception
      - 2.2.5.4 Preliminary Detour and Staging Plans
      - 2.2.5.5 Constuction Cost Estimates
      - 2.2.5.6 Railroad Agreement
      - 2.2.5.7 Quantitative Risk Analysis Report
        - 2.2.5.7.1 Quantitative Risk Analysis Worksheet
    - 2.2.6 Preliminary Preferred Alternative (PPA)
      - 2.2.6.1 Scope Team Meeting Minutes
      - 2.2.6.2 Core Group Meeting Minutes
      - 2.2.6.3 Stakeholder Meeting Minutes
      - 2.2.6.4 Public Information Center Meeting Minutes
      - 2.2.6.5 Local Officials Meeting Minutes
      - 2.2.6.6 Permitting Agency Meeting Minutes
      - 2.2.6.7 Resolution of Support
      - 2.2.6.8 Memo of Record
      - 2.2.6.9 TRO Investigation Letter
    - 2.2.7 Preliminary Engineering Scope Statement
      - 2.2.7.1 Traffic Analysis
      - 2.2.7.2 Crash Diagram
      - 2.2.7.3 Hydrology and Hydraulics Analysis
      - 2.2.7.4 Project Fact Sheet
      - 2.2.7.5 Utility Risk Assessment Plan
    - 2.2.9 Systems Engineering Review Form
    - 2.2.10 CD ROW and Access Impacts Plan
    - 2.2.11 CD ROW and Access Impacts Matrix
    - 2.2.12 CD ROW and Access Impacts Cost Estimate
    - 2.2.13 PPA Constructability-Risk Report
      - 2.2.13.1 Constructability-Risk Analysis Workshop Summary Memo
    - 2.2.14 VE Technical Report
    - 2.2.15 PE PIAP
      - 2.2.9.1 Concept of Operations Report
  - 2.3 Quality Management
    - 2.3.1 CD Quality Management Certification
  - 2.4 Communications
    - 2.4.1 Design Communications Report
  - 2.5 Concept Development Approvals
    - 2.5.1 FHWA Approval
    - 2.5.2 CPSC Package
    - 2.5.3 CPSC Recommendation
    - 2.5.4 Capital Program Committee Approval
  - 2.6 Contracts
    - 2.6.01 Project Assignment Contract
    - 2.6.1 Solicitation Package
    - 2.6.2 Technical Proposal
      - 2.6.2.1 Oral Presentation
    - 2.6.3 Scored Proposals
    - 2.6.4 Executive Decision Document
    - 2.6.5 Debriefing
    - 2.6.6 Independent Cost Estimate
      - 2.6.6.1 Summary Independent Cost Estimate Report
    - 2.6.7 Preliminary Engineering Budget
    - 2.6.8 Preliminary Engineering Schedule
    - 2.6.9 Consultant Agreement
      - 2.6.9.1 Designer Fee Proposal

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