Bored Tunnel Implementation Work Plan

- 1. General Program & Project Management
- 2. Environmental Work Items
 - a. Environmental Strategy (White Paper)
 - i. Determine Lead, Cooperating, and Participating Agencies
 - ii. Purpose & Need
 - iii. Range of Alternatives
 - iv. Methodology Reports
 - b. Draft EIS (Reader Friendly Report)
 - i. Main Body Report
 - ii. Technical Discipline Reports
 - iii. Response to Comments
 - c. Final EIS (Reader Friendly Report)
 - i. Main Body Report
 - ii. Discipline Reports
 - iii. Response to Comments
 - d. Other Environmental Compliance Issues (Supporting Material)
 - i. Endangered Species Act
 - ii. Section 106
 - iii. Section 4(f)
 - e. Record Of Decision (Decision Document)
 - f. Permitting
 - i. Permit Strategy
 - ii. Permit Applications
 - iii. Monitoring & Compliance
- 3. Engineering Work Items
 - a. Configuration Definition (Snapshot Plan Set)
 - i. South Portal
 - ii. North Portal
 - iii. Bored Tunnel
 - iv. Viaduct Demolition and Yesler Way to Elliott Avenue Surface Street
 - b. Basis of Design & Criteria Documents (Basis of Design Reports)
 - i. Civil
 - 1. Civil Design Criteria
 - 2. Plans, Profile, & Typical Sections
 - 3. Drainage Design
 - 4. Traffic Control Plans
 - ii. Structural
 - 1. Structural Design Criteria
 - 2. Structural Conceptual Plans
 - 3. Existing Building Foundation Information

- 4. Blast Vulnerability Analysis
- iii. Geotechnical
 - 1. Geotechnical Design Criteria
 - 2. Geotechnical Data Report
 - 3. Geotechnical Baseline Report
- iv. Tunnel Systems
 - 1. Mechanical Systems
 - a. Determine Tunnel Fire Size
 - b. Confirm Egress Approach
 - c. Ventilation System
 - i. Ventilation Building Siting Study
 - d. Fire Suppression System
 - e. Electrical System
 - 2. Electrical Systems
 - a. Illumination System
 - b. Power Distribution System
 - c. Communication Systems
 - i. Closed Circuit Television
 - ii. Radio Rebroadcast
 - iii. Fire Detection and Alarm
 - iv. Supervisory Control and Data Acquisition
 - d. Fire Detection and Alarm System
 - 3. Traffic Surveillance and Control System
 - a. Incident Detection and Response
 - b. Carbon Monoxide Monitoring
 - c. Security Monitoring
 - 4. Commissioning, Operations, & Maintenance
- v. Utilities
 - 1. Locate Existing Utilities
 - 2. Utility Agency Coordination
 - 3. Railroads
- vi. Architecture & Urban Design
 - 1. Preliminary Architectural Criteria
 - 2. Landscape Architectural Criteria
- vii. ROW & Survey
 - 1. Base Map and Property Ownership Data
 - 2. Record of Survey
- viii. Project Visualization
- ix. CADD & GDMS
 - 1. Project CADD Standards
- x. Design/Build Procurement Support (**RFQ/RFP**)
 - 1. RFQ Support
 - 2. RFP Support
 - 3. Design/Build Contract Support
- xi. Design/Bid/Build Procurement Support (Conceptual Plans)
 - 1. Conceptual Design Preparation

- 2. Design Services Contract Support
- 4. Construction Planning & Cost Estimating Work Items
 - a. Construction Sequencing Planning (Flow Charts)
 - b. Contract Packaging and Delivery Methods Planning (White Papers)
 - i. Design/Bid/Build
 - ii. Design/Build
 - iii. Tunnel Boring Machine Procurement Strategy
 - c. Cost Estimating Support (Cost Estimates)
 - i. Capital Costs
 - ii. O&M Costs
 - d. Scheduling Support (Schedules)
 - e. Risk Register and Risk Analysis (Risk Register)
- 5. Transportation Planning Work Items
 - a. Travel Demand Modeling
 - b. Traffic Operational Modeling
- 6. Real Estate & Right of Way Work Items
- 7. Public Involvement Work Items