



Implementing Toll Roads in Texas: A Process Manual

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What is the Toll Implementation Process Manual?

- One of a Series of Online Manuals Being Developed by TTA
- Provides Overview of Toll Road Implementation from the Planning Phase through Development and Operations



What's in the Toll Implementation Manual?

- Toll Planning and Feasibility
- Environmental Clearance for Tolling
- Toll Systems Design
- Toll Systems Construction
- Toll Systems Operation
- Toll Systems Maintenance
- Toll Project Delivery Methods



Toll Planning

- All new capacity projects are evaluated as potential toll projects (M.O.109519)
- Evaluate projects in UTP to determine if it is feasible to accelerate implementation by tolling
- Coordination between District, TTA, RMA or RTA and MPO to assess potential for tolling



Environmental Clearance for Tolling

- ENV Guidance Documents for Tolling
- FHWA Approval of Environmental Document for Tolling
- Transportation Commission Minute Order Designating as Toll Facility



Toll Feasibility

- Toll Concept Plan
- Traffic & Revenue Studies
 - PFT
 - Conceptual
 - Level 1 (Sketch)
 - Level 2 (Intermediate)
 - Level 3 (Investment Grade)
- Equity Based T&R



Toll Road Design

- Toll Scheme
- Design Traffic
- Toll Collection Hardware & Software
- Civil Design
- Communications Systems
- Enforcement Requirements
- Toll and Guide Signage

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Toll Road Design (Cont)

- Value Engineering
 - Ramp & Frontage Road Considerations
 - Tolling Locations
 - Financing Considerations
- Special Considerations for Managed Lanes
 - Barrier or Buffer
 - Declaration Zones
 - Weaving



Toll Systems Construction

- Statewide Open Road Toll Systems Contract
 - 5 Year CDA
 - Includes System and Civil Design
 - Includes Construction
 - Includes Maintenance
 - Does not include Design, Construction and Maintenance Costs

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Toll Systems Construction (Cont)

- Coordination with Roadway Contractor
 - Work
 - Schedule
- Schedule
 - Development of Project Segment Supplement
 - Design & Construction
 - Testing



Toll Systems Operations

- ETC/Video Collection
- Business Policies
- Toll Transaction Processing
- Violations Enforcement



Toll System Maintenance

- CDA Maintenance Services
- Maintenance Specification Requirements
- Maintenance Online Management Systems



Project Delivery Methods

- Design-Bid-Build
- Design-Build
- Design-Build-Maintain
- Public or Private Concession (Design-Build-Finance-Operate-Maintain-Transfer)
- Availability Payments (Design-Build-Finance-Maintain)
- Pass-Through Financing



TTA Support Services

- Toll Planning and Toll Feasibility
- Traffic & Revenue
- Toll Road Design and Project Development
- Toll Systems Design, Construction, Maintenance
- Toll Operations Support
- Comprehensive Development Agreements



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