



TABLE OF CONTENTS

Chapter 7: Design Development

Section 7-5 Public Involvement

- [7-5-1](#) Initial Public Outreach Process
- [7-5-5](#) Public Involvement Plan
- [7-5-10](#) Public Information Meeting (PIM)
- [7-5-15](#) Project Websites
- [7-5-20](#) Media Contacts
- [7-5-25](#) Local Officials Meeting
- [7-5-30](#) Local Business Coordination/Meeting

Section 7-10 Design Tools

- [7-10-1](#) Civil 3D
- [7-10-5](#) Quantities 2 Plan (Q2P)
- [7-10-10](#) Estimator
- [7-10-15](#) Bid Express
- [7-10-20](#) Drainage Software

Section 7-25 Design Elements

- [7-25-1](#) Bicycle & Pedestrian Facilities
- [7-25-5](#) Curb Ramp Design
- [7-25-10](#) Erosion Control Plans and Special Provisions
- [7-25-15](#) Drainage
- [7-25-20](#) Storm Sewer Design
- [7-25-25](#) Staging / Constructability / Coordination with Traffic Control
- [7-25-30](#) Outdoor Advertising Reviews and Removals
- [7-25-35](#) Salt Sheds
- [7-25-40](#) Urban Intersection Sight Distance and On-Street Parking Requirements
- [7-25-45](#) Detour Route Improvements/Maintenance Requirements
- [7-25-50](#) Traffic Control, Alternate Entrance Ramp Configuration in High Volume Areas
- [7-25-55](#) Replacing Existing Land Parcel or Boundary Monuments

Section 7-30 Plans Production

- [7-30-1](#) CADD Libraries
- [7-30-5](#) Sheet Masking/Borders
- [7-30-10](#) General Notes
- [7-30-15](#) Region Construction Details Library
- [7-30-20](#) Cross Section Plotting

Section 7-35 Project Review Process

- [7-35-1](#) Final Scope Certification Review
- [7-35-5](#) Design Study Review
- [7-35-10](#) Pre-PS&E Review
- [7-35-15](#) ePlan Review Process

Section 7-40 PS&E

- [7-40-1](#) PS&E Submittal Process
- [7-40-5](#) Estimate Uploads
- [7-40-10](#) Special Provisions and Specification Modifications Region Library
- [7-40-15](#) Estimate Documentation
- [7-40-20](#) Advanceable Projects

SWIG Chapter 7 Table of Contents

[7-40-25](#)DT25 Recommendation to Governor for Contract and Bond Approval Guidance

Section 7-45 Post PS&E

[7-45-1](#)Bid Justification Process - State Projects

[7-45-2](#)Bid Justification Process - Local Projects

[7-45-5](#)Addenda

Section 7-50 Environmental

[7-50-1](#)Project/Environmental Timeline

[7-50-5](#)Environmental Document Type Identification

[7-50-10](#)Department of Natural Resources (DNR) Coordination

[7-50-15](#)Archaeology and History Screening Process (Section 106 Process) and Tribal Notification

[7-50-20](#)Hazardous Material (Hazmat) Investigation Request Process

[7-50-25](#)Wetland Determination/Delineation Process

[7-50-30](#)Agricultural Impact Process

[7-50-35](#)Environmental Document Review and Approval Process

[7-50-40](#)U.S. Army Corps of Engineers (USACE) Coordination

Section 7-55 Soils and Pavement

[7-55-1](#)Soils Report

[7-55-5](#)Pavement Design Report (PVD)

Section 7-80 Traffic

[7-80-1](#)Traffic Volume Data and Review (Intersection Counts)

[7-80-5](#)Traffic Forecasting

[7-80-10](#)Safety Certification Process

[7-80-15](#)Transportation Management Plan (TMP)

[7-80-20](#)Incident Management Plan (IMP)

[7-80-25](#)Intersection Design and Operations

[7-80-30](#)Traffic Signals

[7-80-35](#)Intelligent Transportation Systems (ITS)

[7-80-40](#)Highway Lighting

[7-80-45](#)Installation of Crosswalk Markings, Flashing Beacons, and Community-Owned Signs

[7-80-50](#)Electrical Installation Plans

Section 7-85 Utilities

[7-85-1](#)Utility Coordination Process

[7-85-5](#)Project Initialization

[7-85-10](#)Planning and Review Meetings

[7-85-15](#)1077 Process

[7-85-20](#)Plat Review by Utility Unit

[7-85-25](#)1078 Process

[7-85-30](#)Utility Agreements

[7-85-35](#)Pre-PS&E and PS&E Submittals

[7-85-40](#)Permits

[7-85-45](#)Post PS&E Utility Coordination