

Tabular Guide of Updated Changes to City of Tacoma Right-of-Way Design Manual

		Changes from Current ROW Design Manual to Proposed Update						
Chapter	Section	Chapter Sub-sections	None	Editorial/ Minor	Moderate	Major	New or Relocated Topic(s)	
CH 1 - INTRODUCTION & GEN. REQUIREMENTS	1.0	Introduction	X					
	1.1	Plans, References, and Specifications						
		1.1.1 Standard Plans	X					
		1.1.2 Project Plans	X					
		1.1.3 References	X					
		1.1.4 Standard Specifications	X					
	1.2	Exceptions and Variances to the Standards and Requirements					X	
		1.2.1 Exceptions		X				
		1.2.2 Variances					X	
		2.0	Introduction			X		
CH. 2 - ROW SITE/PERMITTING & LOCAL IMPROVEMENT DISTRICTS	2.1	Authority and Permits						
		2.1.1 Permit Required			X			
		2.1.2 Provisions for Permit	X					
		2.1.3 Applicable Permits and the Design Manual					X	
		2.1.4 Applying for a ROW and/or Site Dev Permit					X	
		2.1.5 Permit Review					X	
		2.1.6 Performance Bonding					X	
		2.1.7 Variances					X	
	2.2	Off-Site Improvements Required for Private Development						
		2.2.1 Half Street Improvements					X	
		2.2.2 Curb Ramps					X	
		2.2.3 Alley Improvements					X	
	2.3	ROW Condition Assessment and Restoration						
		2.3.1 Pavement Condition Assessment and Restoration					X	
		2.3.2 Sidewalk Condition Assessment and Restoration					X	
	2.4	Applicant/Contractor Responsibilities						
		2.4.1 Pre-Construction Meeting	X					
		2.4.2 Obtaining a Permit for Construction	X					
		2.4.3 Applicant Responsibilities		X				
	2.5	Bonding Requirements						
		2.5.1 ROW Bond	X					
		2.5.2 Performance Bond	X					
	2.6	Construction and Inspection						
		2.6.1 Work Authorized Under the Permit(s)			X			
	2.7	Closure of the ROW Construction/Work Order Permit and Site Dev Permit						
		2.7.1 Construction Deficiency List Items	X					
		2.7.2 Record Drawings	X					
		2.7.3 Permit Closeout	X					
		2.7.4 Permit Expiration			X			
	2.8	Local Improvement Districts						
		2.8.1 Local Improvement District Definition	X					
		2.8.2 Starting a Local Improvement District	X					
		2.8.3 Advisory Survey	X					
		2.8.4 Formation Hearing and the Initiation of Construction	X					
		2.8.5 Costs/Methods of Payment	X					
		2.8.6 Financial Assistance	X					
	CH 3 - SITE DEVELOPMENT PERMIT & ROW CONSTRUCTION PLAN FORMAT	3.0	Introduction	X				
		3.1	General Requirements		X			
3.2		Plans for ROW Construction/Work Order & Side Dev Permits						
		3.2.1 Capital Delivery Projects		X				
		3.2.2 Private Development Projects		X				
3.3		General Format						
		3.3.1 Title Block, Border and Sheet No.			X			
		3.3.2 Sheet Size, Scale, and Basic Format		X				
		3.3.3 Professional Land Surveyor Required			X			
		3.3.4 Horizontal and Vertical Control Datums			X			
		3.3.5 Additional Items to be Identified on Plans			X			
		3.3.6 Drawing Clarity					X	
3.4		Street Plans						
		3.4.1 Plan View		X				
		3.4.2 Profile		X				
		3.4.3 Cut and Fills	X					
		3.4.4 Private Accessways	X					
		3.4.5 Illumination	X					
		3.4.6 Traffic Signalization	X					
		3.4.7 Channelization and Signing	X					
3.5		Stormwater & Wastewater Sewer Plans						
		3.5.1 Mainlines, Maintenance Holes, and Catch Basins		X				
		3.5.2 Wastewater Sewer Laterals (Side Sewers)		X				
	3.5.3 Private Utilities		X					
	3.5.4 Stormwater and Wastewater Facilities		X					
3.6	Details							
	3.6.1 Typical Sections			X				
	3.6.2 Cross Sections			X				
	3.6.3 Intersection Details					X		
	3.6.4 Additional Notes and Details for Site Dev & ROW Constr/W.O. Permit Plans	X						

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CH 4 - STREET DESIGN	4.1 Street Types					
	4.1.1 Arterials				X	
	4.1.2 Local Streets (Non-Arterials)				X	
	4.1.3 Dead End Streets/Treatments			X		X
	4.1.4 End of Street Provisions			X		X
	4.2 Basis for Geometric Design					
	4.2.1 Design Fundamentals					X
	4.2.2 Design Vehicle				X	
	4.2.3 Design Speeds				X	
	4.2.4 Sight Distance		X			
	4.2.5 Geometric Design Guidelines			X		
	4.2.5.1 Permanent & Temporary Improvements				X	X
	4.2.5.2 Half Street Improvements				X	X
	4.3 Street Geometry					
	4.3.1 Horizontal Curves			X		
	4.3.2 Vertical Curves			X		
	4.3.3 Vertical (Longitudinal) Grades					X
	4.3.4 Cross Slopes					X
	4.3.5 Flowlines					X
	4.3.6 Street Tapers			X		
	4.4 Street Cross-Section					
	4.4.1 Street Width					X
	4.4.2 Lane Types & Widths					X
	4.4.3 On-Street Parking & Passenger/Other Load Zones					X
	4.4.4 Cross Section Details			X		
	4.4.5 Curbs				X	
	4.4.6 Clear Zone – Lateral Separation					X
	4.4.7 Mobility Facilities					X
	4.4.7.1 Sidewalk, Amenity, and Recovery Zones					X
	4.4.7.2 Sidewalk and Amenity Zone Widths					X
	4.4.7.3 Requirements for New Sidewalk Construction or Alterations					X
	4.4.8 Recovery Zone to Private Property with Cut and Fill				X	
	4.5 Street Intersections					
	4.5.1 Intersection Profiles and Drainage				X	
	4.5.2 Horizontal Approach Angle and Offsets					X
	4.5.3 Intersection Spacing					X
	4.5.4 Intersection Curb Extensions					X
	4.5.5 Intersection Corner Curb Radii					X
	4.5.6 Right-of-Way Chamfers					X
	4.5.7 Intersection Approach Grading					X
	4.5.8 Sight Distance			X		
	4.5.9 Intersection Control					X
	4.6 Street Access					
	4.6.1 Functional Classification and Connectivity			X		
	4.6.2 Access Management			X		
	4.6.3 Access Location and Spacing			X		
	4.6.4 Medians, Traffic Diverters & Centerline Hardening				X	
	4.6.5 Alleys and Courts					X
	4.6.6 Driveways				X	
	4.6.7 Driveway Classifications					X
	4.6.8 Private Streets and Accessways				X	
	4.7 Pavement Design					X
	4.8 Traffic Control Elements					
	4.8.1 Traffic Calming/Intersection Treatments			X		
	4.8.2 Guardrails and Traffic Barriers					X
	4.8.3 Bollards					X
	4.9 Street Amenities & Additional Design Features					
	4.9.1 Amenity Zone Features				X	
	4.9.2 Planting Areas and Street Trees					X
	4.9.3 Signage			X		
	4.9.4 Stairs, Ramps, Fences, Handrails, and Guards				X	
	4.9.5 Street Furniture				X	
	4.9.6 Bus/Transit Stops and Transit Routes				X	
	4.9.7 Bicycle Parking					X
	4.9.8 Mailboxes				X	
	4.9.9 Sidewalk Cafes					X
	4.9.10 Public Art, Civic, and Cultural Features			X		
	4.9.11 Solid Waste Collection					X
	4.9.12 Utilities				X	
	4.10 Walls					
	4.10.1 Retaining Walls					X
	4.10.2 Engineered Retaining Wall					X
	4.10.3 Rock Wall			X		
	4.10.4 Temporary Retaining Walls					X
	4.10.5 Temporary Cut Slopes					X

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CH 9 - TREE & VEGETATION MANAGEMENT	9.0 Introduction		X			
	9.1 Applicability					
	9.1.1 Regulated Trees		X			
	9.1.2 Required Practices	X				
	9.1.3 Recommended Practices	X				
	9.2 Tree Planting, Removal & Replacement					
	9.2.1 Permitting				X	
	9.2.2 Tree Planting				X	
	9.2.3 Tree Pruning (Trimming)		X			
	9.2.4 Tree Removal		X			
9.3 Tree Protection During Construction			X			
CH 11 - STORMWATER & WASTEWATER SEWER DESIGN	11.0 Introduction	X				
	11.1 Existing System Drawings		X			
	11.2 Wastewater Assessment & Connection Charges					
	11.2.1 Local Improvement District Charge		X			
	11.2.2 Connection Charge-in-lieu-of-Assessment	X				
	11.2.3 ROW Construction/Work Order Permit		X			
	11.3 Sizing the SW & WW System					
	11.3.1 Wastewater Sewer Sizing	X				
	11.3.2 Stormwater System Sizing		X			
	11.4 Gravity Pipe Design Criteria					
	11.4.1 Pipe Size			X		
	11.4.2 Pipe Slope and Velocities				X	
	11.4.3 Pipe Material			X		
	11.4.4 Pipe Depth		X			
	11.4.5 Pipe Cover		X			
	11.4.6 Pipe Alignment				X	
	11.4.7 Pipe Casings		X			
	11.4.8 Pipe Couplings		X			
	11.4.9 Pipe Bedding, Backfill and Backfill Compaction	X				
	11.4.10 Pipe Anchors			X		
	11.4.11 Considerations for Future Development			X		
	11.4.12 Pipe Buoyancy			X		
	11.5 Maintenance Hole Design Criteria					
	11.5.1 Maintenance Hole Locations			X		
	11.5.2 Maintenance Hole Types			X		
	11.5.3 Maintenance Hole Covers				X	
	11.5.4 Connections to Maintenance Holes				X	
11.6 Catch Basins						
11.6.1 Catch Basin Locations				X		
11.6.2 Catch Basin Types				X		
11.6.3 Stormwater System Connections					X	
11.7 Low Pressure Grinder Pump WW Systems		X				
11.8 Open Channel Design Criteria			X			
11.9 Separation Requirements						
11.9 Access and Easements					See 11.4.6	
11.9.1 Access					X	
11.9.2 Easements					X	
CH 12 - WATER PLANS	12.0 Introduction			X		
	12.1 Water Distribution Design Criteria					
	12.1.1 System Requirements					X
	12.1.2 Pipe Size					X
	12.1.3 Pipe Slope					X
	12.1.4 Pipe Joints					X
	12.1.5 Materials					X
	12.1.6 Pipe Depth and Cover					X
	12.1.7 Pipe Alignment					X
	12.1.8 Separation Requirements from Other Utilities					X
	12.1.9 Pipe Casings					X
	12.1.10 Concrete Thrust Blocks					X
	12.1.11 Joints					X
	12.1.12 Pipe Bedding and Backfill					X
	12.1.13 Hydrants					X
	12.1.14 Water Service Lines					X
12.2 Private Contracts					X	
12.3 Access and Easements					X	
12.4 Transmission Pipelines and Appurtenances					X	
Acronyms			X			
Definitions			X			