

**Appendix A. Schedule 5.02(A)1**

WASHINGTON STATE COUNTY ARTERIAL DESIGN STANDARDS

AVERAGE DAILY TRAFFIC (ADT) Current	Under 250		250-400		400-750					
DESIGN HOURLY VOLUME (DHV) 15 yrs. Hence					100-200		200-400		400+	
<u>SHARPEST CURVE</u> (Degrees, Radius in feet), Flat, Rolling, Mountainous	Max.	Min.	Max.	Min.	Max.	>Min.	Max.	Min.	Max.	Min.
	D°	R'	D°	R'	D°	R'	D°	R'	D°	R'
	8.5	694	8.5	694	7.5	758	7.5	758	7.0	833
	13.5	427	13.5	427	12.5	464	12.5	464	11.5	508
	25.0	231	25.0	231	23.0	250	23.0	250	21.0	273
GRADIENT* Flat Rolling Mountainous	Maximum		Maximum		Maximum		Maximum		Maximum	
	6%		6%		6%		4%		4%	
	8%		8%		7%		5%eol;7%;		5%eol;7%	
	11%		11%		9%;					
PAVEMENT WIDTH	Minimum		Minimum		Minimum		Minimum		Minimum	
	20'		20'		22'		24'		24'	
<u>STOPPING SIGHT DISTANCE</u> Flat Rolling Mountainous	350'		350'		350'		350'		350'	
	275'		275'		275'		350'		350'	
	200'		200'		200'		350'		350'	
WIDTH OF ROADWAY**	28'		28'		34'		40'		40'	
NUMBER OF LANES	2		2		2		2		2	

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NEW BRIDGES #	26'	26'	28'	40'	40'
Curb to Curb Width (Ft.)	H-20	H-20	H-20	H-20	H-20
Design Load (AASHO)	14.5	14.5	14.5	14.5	14.5
Vertical Clearance					
RIGHT OF WAY WIDTH	60'	60'	60'	Adequate	Adequate

\*May be steeper for short distances  
 \*\*For guardrail installation, width of shoulder to be additional two feet  
 # All bridge curbs to meet state standards  
 Sidewalks to be determined on an individual basis

Geometric Design Standards for over 600 DHV shall be determined from the results of an engineering study based on AASHO or acceptable standards