

## AWV South End - Transition Summary (NB and SB Mainline)

Design Element	Design Standard	Proposed Design	Comments
Design Speed	50 MPH	40 MPH	
Vertical Clearance	16.5 ft	14.5 ft	Constrained by Viaduct Structure for SB Movement
Lane Width	12 ft or 11 ft with justification	MG (11 ft)	
Turning Roadway Width	Additional ft for 1,000 to 2,999 for two lane	Not provided	Project Area Limitations and Constraints
Lane Transition	Lane Addition 1:4 1:15, Lane Reduction: L=VT	MG (40:1 Lane Addition?)	
Lane Cross Slope	2%	MG	
Max. Superelevation	6%	MG	
Superelevation Transition/Runoff	Varies	MG	
Shoulder Width - Inside	4 ft	2 ft	Project Area Limitations and Constraints
Sholder Width - Outside	10 ft	2 ft	Project Area Limitations and Constraints
Stopping Sight Distance - Horizontal	50 MPH	Meets 40 MPH	Constrained by obstruction from Viaduct Pier Columns on SB movement. Limiting factor in this design.
Horizontal Curve Radii	840-feet minimum	MG	
Stopping Sight Distance - Vertical	50 MPH	Meets 40 MPH ASHTO	Meets 40 MPH ASHTO for NB crest curve with 2 ft object height
Minimum Length of Vertical Curves	Varies	NB Sag curve meets 40 MPH Comfort Criteria requirements	Will mitigate by illumination.
Maximum Grade	7%	MG	
Minimum Grade	0.30%	MG	

### Notes

1. MG = Meets Guidelines
2. This doesn't include NB On and SB Off Ramps.
3. All elements meet 40 MPH design speed except for the verical crest curve on the NB movement (meets 40 MPH ASHTO standard with 2' object height).