

TABLE I-2: DESIGN CRITERIAAdapted from AASHTO, *A Policy on Geometric Design of Highways and Streets 2011*

Sources: Prince George's County Department of Public Works and Transportation and American Association of State Highway and Transportation Officials (AASHTO)

Road Classification	Design Speed (MPH)	Min. C/L Radius (ft.)	Max C/L Grade (%)	Min. C/L Grade (%)	Min Stopping Sight Distance (ft.)	Min. "K" Value Sag	Min. "K" Value Crest	Min. Inter-section Sight Distance (ft.)**	Min. Turning Radius (ft.)	R/W (ft.)
Urban Arterial Road	50	1200	6	1	425	100	90	555	50	120/130
Urban Major Collector Road	40	700	8	1	305	70	50	445	45	100
Urban 4-Lane Collector Road	40	700	8	1	305	70	50	445	45	80
Urban 5-Lane Collector Road	40	700	8	1	305	70	50	445	45	80/90
Urban Commercial and Industrial Road	35	500	10	1	250	50	30	390	50	70
Urban Primary Residential Road	35	500	10	1	250	50	30	390	37	60/70
Urban Secondary Residential Road	30	300	10	1	200	40	20	335	37	50
Rural 4-Lane Arterial Road*	50	1200	6	2	425	100	90	555	50	130
Rural 2-Lane Collector Road*	40	700	8	2	305	70	50	445	50	80
Rural Primary Residential Road*	35	500	10	2	250	50	30	390	45	60
Rural Secondary Residential Road*	30	300	10	2	200	40	20	335	45	60
Rural Private Residential Road*	30	300	10	2	200	40	30	335	40	50
Scenic and Historic-Rural 4-Lane Collector Road	40	700	8	2	305	70	50	445	50	120

Note: Posted speed limits on County-maintained roads may be equal to or less than design speed (MPH). * Also applicable to Scenic and Historic roads

Note: **This column represents sight distance requirements for two-lane undivided roadways. Refer to AASHTO to calculate sight distance for roadways with other characteristics.

Rate of vertical curvature: $K = L/A$
 L = Length of vertical curve
 A = Algebraic difference in grades (%)
 Minimum 100' vertical curve

DESIGN REVIEW CHECKLIST STREET GRADE ESTABLISHMENT PLAN

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