COMMON GEOMETRIC PRACTICES
RURAL ARTERIAL ROADS (OTHER THAN FREEWAYS) (4)

		TRAFFIC VOLUME			
		UNDER 400 A.D.T.	400-1500 A.D.T.	1500-2000 A.D.T.	OVER 2000 A.D.T.
	DESIGN SPEED (6)	40-50 M.P.H.	40-70 M.P.H.	40-70 M.P.H.	40-70 M.P.H.
PAVEMENT WIDTH (FEET)	40 MPH	22	22	22	24
	45 MPH				
	50 MPH			24	
	55 MPH				
	60 MPH	24	24		
	65 MPH				
	70 MPH				
MINIMUM GRADED SHOULDER WIDTH (FT) (5)	ALL SPEEDS	4	6	6	8
MINIMUM CLEAR ROADWAY WIDTH OF NEW AND RECONSTRUCTED BRIDGES	ALL SPEEDS	APPROACH ROADWAY WIDTH (1)			

	DESIGN SPEED	eMAX. 4%	eMAX. 6%	eMAX. 8%
MINIMUM RADIUS (FEET)	30 MPH	300	275	250
	35 MPH	420	380	350
	40 MPH	565	510	465
	45 MPH	730	660	600
	50 MPH	930	835	760
	55 MPH	1190	1065	965
	60 MPH	1505	1340	1205
	65 MPH	—	1660	1485
	70 MPH	—	2050	1820
NORMAL PAVEMENT CROSS SLOPES (3)	RATE OF CROSS SLOPE = 2%			
NORMAL SHOULDER CROSS SLOPES	EARTH = 8%		PAVED = 4%	

MAXIMUM GRADE (PERCENT)	M.P.H.	30	35	40	45	50	55	60	65	70	75	80
	LEVEL	-		5		4		3				
	ROLLING	-		6		5		4				
	MOUNTAIN	-		8	7		6		5			
MINIMUM STOPPING SIGHT DISTANCE (1)	(FEET)	200	250	305	360	425	495	570	645	730	820	910
MINIMUM PASSING SIGHT DISTANCE (2)	(FEET)	1090	1280	1470	1625	1835	1985	2135	2285	2480	2580	2680

(1) MINIMUM STOPPING SIGHT DISTANCES ARE BASED ON HEIGHT OF EYE OF 3.5 FT AND HEIGHT OF OBJECT OF 2.0FT. BOTH HORIZONTAL AND VERTICAL ALIGNMENTS ARE CONSIDERED.

(2) MINIMUM PASSING SIGHT DISTANCES ARE BASED ON HEIGHT OF EYE 3.5 FT AND HEIGHT OF OBJECT OF 3.5 FT. BOTH HORIZONTAL AND VERTICAL ALIGNMENTS ARE CONSIDERED.

(3) NORMAL PAVEMENT CROSS SLOPES ON BRIDGES SHALL BE 2%.

(4) FOR GUIDANCE ON FREEWAYS, REFER TO AASHTO, "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS", CURRENT EDITION.

(5) WIDEN 3 FT FOR GUARDRAIL.

(6) JUSTIFICATION FOR A DESIGN SPEED LESS THAN THE REGULATORY OR POSTED SPEED MUST BE DOCUMENTED AND AVAILABLE FOR REVIEW IN THE PROJECT FILES.