



PLAN

WHERE THE MEDIAN IS SUFFICIENTLY WIDE FOR THE DESIGN VEHICLE TO PAUSE IN THE MEDIAN (VEHICLE LENGTH TABLE PLUS 6' MIN.) THE CLEAR LINE OF SIGHT TO THE RIGHT ( $d_r$ ) IS MEASURED FROM THE VEHICLE PAUSE LOCATION, I.E., NOT FROM THE CROSS ROAD STOP POSITION; DISTANCES  $d$  AND  $d_m$  DO NOT APPLY.

**LEGEND**

- AREAS FREE OF SIGHT OBSTRUCTIONS
- CZ CLEAR ZONE WIDTH FOR NONRESTRICTED CONDITIONS (6' MIN. FOR RESTRICTED CONDITIONS)

Design Speed	MEDIAN 35' OR LESS			
	$d$	$d_L$	$d_r$	$d_m$
30	590	420	90	510
35	690	490	110	600
40	780	550	120	680
45	880	620	140	760
50	980	690	160	850
55	1080	760	170	940
60	1170	830	190	1020
65	1270	900	200	1100
70	1365	970	215	1185

Design Speed	40'-64' MEDIAN				
	$d$	$d_L$	$d_v$	$d_{vL}$	
30	410	290	420	300	
35	470	330	490	350	
40	540	380	560	400	
45	610	430	630	450	
50	680	480	700	500	
55	740	520	770	540	
60	810	570	840	590	
65	880	620	910	640	
70	950	670	980	690	

Design Speed	MEDIAN 22' OR LESS			
	$d$	$d_L$	$d_r$	$d_m$
30	410	290	80	350
35	480	340	90	410
40	550	390	100	470
45	620	440	110	530
50	690	490	130	580
55	760	540	140	640
60	830	590	150	700
65	900	640	170	760
70	970	690	185	820

Design Speed	25'-64' MEDIAN				
	$d$	$d_L$	$d_v$	$d_{vL}$	
30	310	220	330	230	
35	360	250	390	280	
40	410	290	440	310	
45	460	330	500	350	
50	510	360	550	390	
55	570	400	610	430	
60	620	440	660	470	
65	670	470	720	510	
70	720	505	775	550	

SINGLE-UNIT TRUCK (SU)

PASSENGER VEHICLE (P)

Design Speed	MEDIAN 30' OR LESS			
	$d$	$d_L$	$d_r$	$d_m$
30	670	470	110	580
35	780	550	130	670
40	890	630	150	770
45	1000	710	170	860
50	1110	790	190	960
55	1220	860	200	1050
60	1330	940	220	1150
65	1440	1020	240	1240
70	1550	1100	260	1335

Design Speed	35'-50' MEDIAN				
	$d$	$d_L$	$d_v$	$d_{vL}$	
30	720	510	100	640	
35	830	590	110	740	
40	950	670	130	840	
45	1070	760	150	950	
50	1190	840	160	1060	
55	1310	930	180	1160	
60	1430	1010	190	1270	
65	1550	1100	210	1380	
70	1670	1185	230	1490	

Design Speed	64' MEDIAN			
	$d$	$d_L$	$d_v$	$d_{vL}$
30	490	350	510	360
35	580	410	590	420
40	660	470	680	480
45	740	520	760	540
50	820	580	850	600
55	910	640	930	660
60	990	700	1020	720
65	1070	760	1100	780
70	1150	820	1185	840

INTERMEDIATE SEMI-TRAILERS (WB-40 & WB-50)

VEHICLE TYPE	VEHICLE LENGTH (FT.)
PASSENGER (P)	19
SINGLE UNIT (SU)	30
LARGE SCHOOL BUS	40
WB-40	45.5
WB-50	55

VEHICLE LENGTH TABLE

SIGHT DISTANCES ( $d$ ), ( $d_v$ ) & ( $d_x$ ) AND RELATED DISTANCES ( $d$ ,  $d_L$ ,  $d_r$ ,  $d_m$  &  $d_{vL}$ ) (FEET)  
**6 LANE DIVIDED HIGHWAY**

**GENERAL NOTES FOR 6-LANE DIVIDED ROADWAY**

- ① SEE RD01-SD-1 FOR ORIGIN OF CLEAR SIGHT LINE ON THE MINOR ROAD.
- ② VALUES SHOWN IN THE TABLES ARE THE GOVERNING (CONTROLLING) SIGHT DISTANCES CALCULATED BASED ON 'ASSHTO CASE B - INTERSECTION WITH STOP CONTROL ON THE MINOR ROAD.'
- ③ DEFINITIONS:  
 $d_{vL}$  THE CLEAR LINE OF SIGHT TO THE RIGHT IS THE DISTANCE MEASURED FOR THE VEHICLE PAUSE LOCATION TO THE EDGE OF THE INSIDE TRAVEL LANE  
 CZ CLEAR ZONE  
 $d_m$  DISTANCE MEASURED FROM THE CENTERLINE OF THE ENTRANCE LANE OF THE MINOR ROADWAY TO A POINT ON THE MEDIAN CLEAR ZONE LIMIT OR HORIZONTAL CLEARANCE LIMIT FOR THE FAR SIDE ROADWAY OF THE MAJOR ROADWAY
- ④ SEE SHEET RD01-SD-2 FOR MEDIAN LANDSCAPE REQUIREMENTS

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

**INTERSECTION  
 SIGHT DISTANCE  
 6-LANE DIVIDED  
 HIGHWAYS**