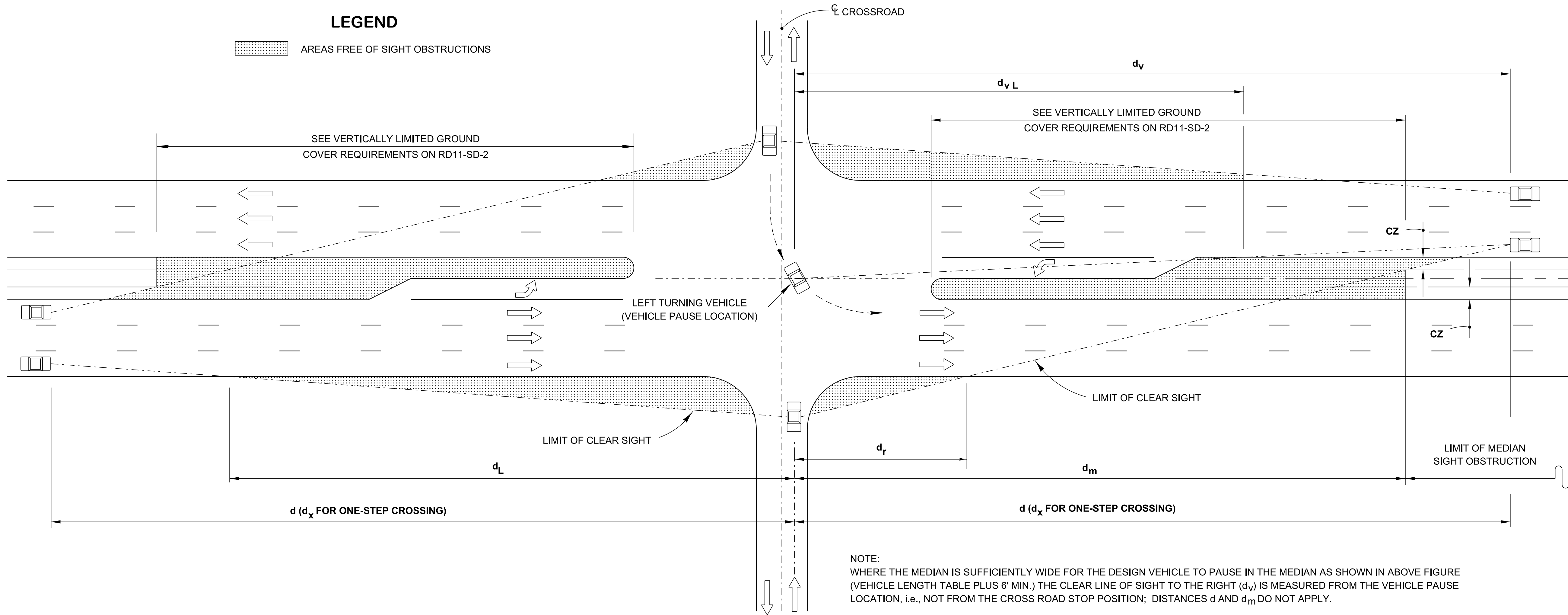


**LEGEND**

AREAS FREE OF SIGHT OBSTRUCTIONS



NOTE:  
WHERE THE MEDIAN IS SUFFICIENTLY WIDE FOR THE DESIGN VEHICLE TO PAUSE IN THE MEDIAN AS SHOWN IN ABOVE FIGURE (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.

MEDIAN 30' OR LESS				
Design Speed (MPH)	d (FT)	$d_L$ (FT)	$d_r$ (FT)	$d_m$ (FT)
30	670	480	110	590
35	780	560	130	680
40	890	630	150	780
45	1000	710	160	870
50	1103	780	180	960
55	1220	870	200	1060
60	1330	950	220	1160
65	1440	1020	230	1260
70	1550	1100	250	1350

35' - 50' MEDIAN				
Design Speed (MPH)	d (FT)	$d_L$ (FT)	$d_r$ (FT)	$d_m$ (FT)
30	710	510	100	630
35	820	580	120	730
40	940	670	130	840
45	1060	750	150	950
50	1170	830	160	1040
55	1290	920	180	1150
60	1410	1000	200	1260
65	1520	1080	210	1350
70	1640	1160	230	1460

64' MEDIAN				
Design Speed (MPH)	d (FT)	$d_L$ (FT)	$d_v$ (FT)	$d_{vL}$ (FT)
30	500	360	510	370
35	580	410	600	430
40	660	470	680	490
45	750	530	770	550
50	830	590	850	610
55	910	650	930	660
60	990	700	1020	730
65	1070	760	1100	780
70	1160	820	1190	850

**SPECIAL NOTES**

- INTERSECTION SIGHT DISTANCE VALUES ARE PROVIDED FOR PASSENGER VEHICLES, SINGLE UNIT (SU) VEHICLES AND COMBINATION VEHICLES. INTERSECTION SIGHT DISTANCE BASED ON THE PASSENGER VEHICLE IS SUITABLE FOR MOST INTERSECTIONS. WHERE SUBSTANTIAL VOLUMES OF HEAVY VEHICLES ENTER THE MAJOR ROAD, SUCH AS FROM RAMP TERMINALS WITH STOP CONTROL OR ROADWAYS SERVING TRUCK TERMINALS, THE USE OF TABULATED VALUES FOR (SU) VEHICLES OR COMBINATION VEHICLES SHOULD BE CONSIDERED.
- ALL PROPERTY NEEDED TO ACHIEVE SIGHT DISTANCE AT INTERSECTIONS SHOULD BE ACQUIRED AS RIGHT-OF-WAY. SEE STD DWG RD11-SD-1 FOR RIGHT-OF-WAY LINE PLACEMENT.

VEHICLE LENGTH TABLE	
VEHICLE TYPE	VEHICLE LENGTH (FT.)
PASSENGER (P)	19
SINGLE UNIT (SU)	30
LARGE SCHOOL BUS	40
WB-40	45.5
WB-67	73.5

**INTERMEDIATE SEMI-TRAILER (WB-40)**

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

MEDIAN 35' OR LESS				
Design Speed (MPH)	d (FT)	$d_L$ (FT)	$d_r$ (FT)	$d_m$ (FT)
30	580	410	100	500
35	670	480	120	580
40	770	550	130	660
45	860	610	150	740
50	960	680	170	830
55	1060	750	180	910
60	1150	820	200	990
65	1250	880	220	1070
70	1340	950	230	1150

40'-64' MEDIAN				
Design Speed (MPH)	d (FT)	$d_L$ (FT)	$d_v$ (FT)	$d_{vL}$ (FT)
30	420	290	420	300
35	480	340	490	350
40	450	320	560	400
45	620	440	630	450
50	680	490	700	500
55	750	530	770	550
60	820	580	840	600
65	880	630	910	650
70	950	680	980	700

MEDIAN 22' OR LESS				
Design Speed (MPH)	d (FT)	$d_L$ (FT)	$d_r$ (FT)	$d_m$ (FT)
30	420	300	80	360
35	490	350	90	420
40	560	400	100	480
45	630	450	120	540
50	700	500	130	600
55	770	550	140	660
60	840	600	150	720
65	900	640	160	770
70	970	690	180	830

25'-64' MEDIAN				
Design Speed (MPH)	d (FT)	$d_L$ (FT)	$d_v$ (FT)	$d_{vL}$ (FT)
30	310	220	340	240
35	360	260	390	280
40	420	300	450	320
45	470	340	500	360
50	520	370	560	400
55	570	410	610	440
60	620	440	670	480
65	670	480	720	510
70	720	510	780	560

SINGLE-UNIT TRUCK (SU-30)

PASSENGER VEHICLE (P)

**6 LANE DIVIDED HIGHWAYS**

**DESIGN NOTES**

- SEE RD11-SD-1 FOR ORIGIN OF CLEAR SIGHT LINE ON THE ROAD.
- VALUES SHOWN IN THE TABLES ARE THE GOVERNING (CONTROLLING) SIGHT DISTANCES CALCULATED BASED ON "AASHTO CASE B - INTERSECTION WITH STOP CONTROL ON THE MINOR ROAD."
- DEFINITIONS:  
  - $d$  THE CLEAR LINE OF SIGHT DISTANCE.
  - $d_{vL}$  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 WIDTH FOR NONRESTRICTED CONDITIONS (6' MIN. FOR RESTRICTED CONDITIONS).
  - $d_m$  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.
  - $d_v$  THE CLEAR LINE OF SIGHT DISTANCE FOR A VEHICLE ON THE APPROACH ROADWAY TO A PAUSED VEHICLE IN THE MEDIAN.
  - $d_r$  CLEAR LINE OF SIGHT DISTANCE TO THE RIGHT FROM THE MINOR ROADWAY
- SEE SHEET RD11-SD-2 FOR MEDIAN LANDSCAPE REQUIREMENTS.

STATE OF TENNESSEE  
STANDARD DRAWING  
DEPARTMENT OF TRANSPORTATION

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

01-01-2019 RD11-SD-6

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NOT TO SCALE