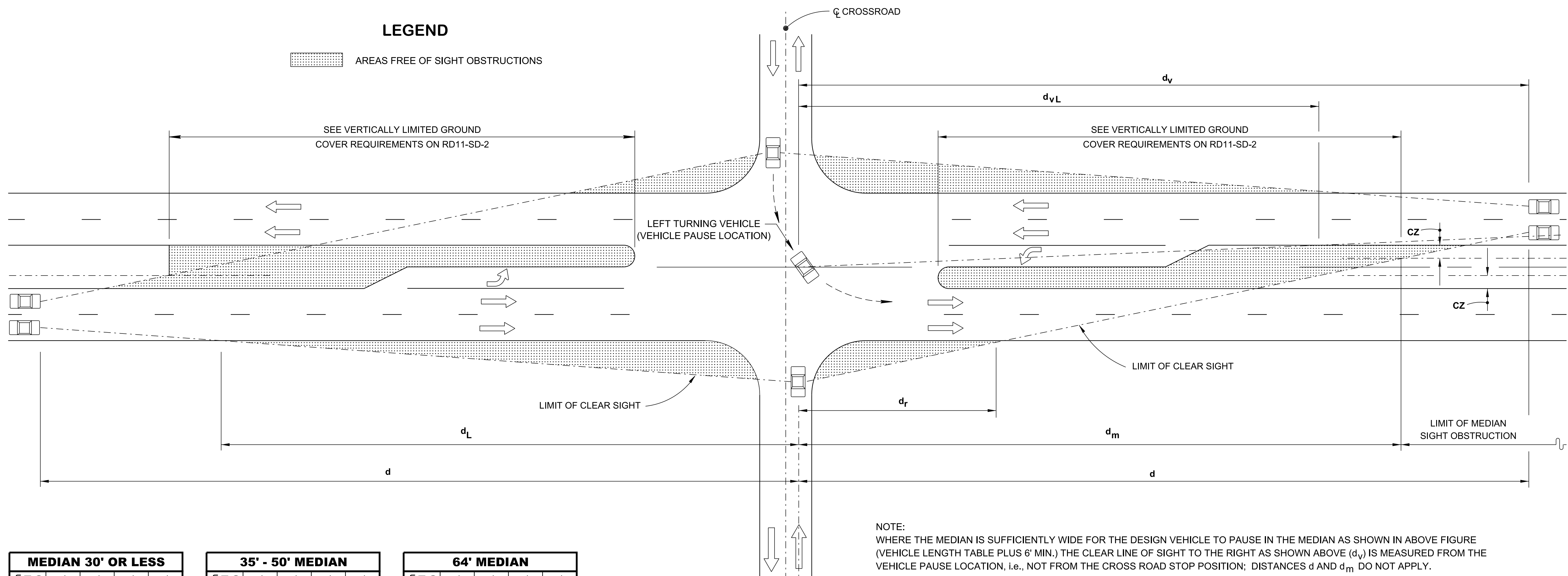


LEGEND

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 AS SHOWN ABOVE (d_v) 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	620	440	120	530
35	720	510	140	620
40	830	590	160	710
45	930	660	170	790
50	1030	730	190	880
55	1140	810	210	970
60	1240	880	230	1060
65	1340	950	250	1140
70	1450	1030	270	1240

35' - 50' MEDIAN				
Design Speed (MPH)	d (FT)	d_L (FT)	d_r (FT)	d_m (FT)
30	670	480	110	590
35	790	560	130	690
40	900	640	140	790
45	1010	720	160	890
50	1120	800	180	980
55	1230	870	190	1080
60	1350	950	210	1180
65	1460	1040	230	1270
70	1570	1110	250	1380

64' MEDIAN				
Design Speed (MPH)	d (FT)	d_L (FT)	d_v (FT)	d_{vL} (FT)
30	470	340	510	360
35	540	390	600	430
40	620	440	680	490
45	700	500	770	550
50	780	560	850	610
55	850	610	930	660
60	930	660	1020	730
65	1010	720	1100	780
70	1090	780	1190	850

SPECIAL NOTES

① 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.

② 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) 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	540	390	100	460
35	630	450	100	540
40	720	510	120	620
45	810	580	130	690
50	900	640	150	770
55	990	700	160	850
60	1080	770	180	920
65	1170	830	190	1000
70	1260	900	200	1070

40'-64' MEDIAN				
Design Speed (MPH)	d (FT)	d_L (FT)	d_v (FT)	d_{vL} (FT)
30	380	270	420	300
35	440	320	490	350
40	500	360	560	400
45	570	410	630	450
50	630	450	700	500
55	690	490	770	550
60	750	530	840	600
65	820	580	910	650
70	880	620	980	700

MEDIAN 22' OR LESS				
Design Speed (MPH)	d (FT)	d_L (FT)	d_r (FT)	d_m (FT)
30	390	280	90	330
35	460	330	100	380
40	520	370	110	440
45	590	420	130	490
50	650	460	140	540
55	720	510	160	600
60	780	560	170	650
65	850	600	180	700
70	910	660	200	770

25'-64' MEDIAN				
Design Speed (MPH)	d (FT)	d_L (FT)	d_v (FT)	d_{vL} (FT)
30	290	210	340	240
35	340	240	390	280
40	390	280	450	320
45	430	310	500	360
50	480	340	560	400
55	530	380	610	430
60	580	410	670	480
65	630	450	720	510
70	670	480	780	550

SINGLE-UNIT TRUCK (SU-30)

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

PASSENGER VEHICLE (P)

4 LANE DIVIDED HIGHWAYS

DESIGN NOTES

(A) SEE RD11-SD-1 FOR ORIGIN OF CLEAR SIGHT LINE ON THE ROAD.

(B) 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."

(C) 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

(D) SEE SHEET RD11-SD-2 FOR MEDIAN LANDSCAPE REQUIREMENTS.

STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS

01-01-2019 RD11-SD-5

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NOT TO SCALE