



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_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.

LEGEND

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

GENERAL NOTES FOR 4-LANE DIVIDED ROADWAY

- 1 SEE RD01-SD-1 FOR ORIGIN OF CLEAR SIGHT LINE ON THE ROAD.
- 2 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.'
- 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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INTERSECTION
SIGHT DISTANCE
4-LANE DIVIDED
HIGHWAYS

NOT TO SCALE 10-01-08 RD01-SD-5

| MEDIAN 35' OR LESS | | | | |
|--------------------|------|-------|-------|-------|
| Design Speed | d | d_L | d_r | d_m |
| 30 | 540 | 380 | 100 | 460 |
| 35 | 630 | 450 | 110 | 530 |
| 40 | 720 | 510 | 130 | 610 |
| 45 | 810 | 570 | 150 | 690 |
| 50 | 900 | 640 | 160 | 760 |
| 55 | 990 | 700 | 180 | 840 |
| 60 | 1080 | 760 | 200 | 920 |
| 65 | 1170 | 830 | 210 | 990 |
| 70 | 1260 | 890 | 230 | 1070 |

SINGLE-UNIT TRUCK (SU)

| 40'-64' MEDIAN | | | | |
|----------------|-----|-------|-------|----------|
| Design Speed | d | d_L | d_v | d_{vL} |
| 30 | 370 | 260 | 420 | 300 |
| 35 | 440 | 310 | 490 | 350 |
| 40 | 500 | 350 | 560 | 400 |
| 45 | 560 | 400 | 630 | 450 |
| 50 | 620 | 440 | 700 | 500 |
| 55 | 690 | 490 | 770 | 540 |
| 60 | 750 | 530 | 840 | 590 |
| 65 | 810 | 570 | 910 | 640 |
| 70 | 875 | 620 | 980 | 690 |

PASSENGER VEHICLE (P)

| MEDIAN 22' OR LESS | | | | |
|--------------------|-----|-------|-------|-------|
| Design Speed | d | d_L | d_r | d_m |
| 30 | 390 | 280 | 90 | 320 |
| 35 | 460 | 330 | 100 | 380 |
| 40 | 520 | 370 | 110 | 430 |
| 45 | 590 | 420 | 130 | 480 |
| 50 | 650 | 460 | 140 | 530 |
| 55 | 720 | 510 | 160 | 590 |
| 60 | 780 | 550 | 170 | 640 |
| 65 | 850 | 600 | 190 | 700 |
| 70 | 920 | 650 | 200 | 760 |

| 25'-64' MEDIAN | | | | |
|----------------|-----|-------|-------|----------|
| Design Speed | d | d_L | d_v | d_{vL} |
| 30 | 290 | 210 | 330 | 230 |
| 35 | 330 | 230 | 390 | 280 |
| 40 | 380 | 270 | 440 | 310 |
| 45 | 430 | 300 | 500 | 350 |
| 50 | 480 | 340 | 550 | 390 |
| 55 | 530 | 370 | 610 | 430 |
| 60 | 570 | 400 | 660 | 470 |
| 65 | 620 | 440 | 720 | 510 |
| 70 | 670 | 475 | 770 | 550 |

| MEDIAN 30' OR LESS | | | | |
|--------------------|------|-------|-------|-------|
| Design Speed | d | d_L | d_r | d_m |
| 30 | 620 | 440 | 120 | 520 |
| 35 | 720 | 510 | 140 | 600 |
| 40 | 820 | 580 | 160 | 690 |
| 45 | 930 | 660 | 180 | 780 |
| 50 | 1030 | 730 | 200 | 860 |
| 55 | 1130 | 800 | 220 | 950 |
| 60 | 1240 | 880 | 240 | 1040 |
| 65 | 1340 | 950 | 260 | 1120 |
| 70 | 1440 | 1020 | 280 | 1200 |

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

| 35'-50' MEDIAN | | | | |
|----------------|------|-------|-------|----------|
| Design Speed | d | d_L | d_v | d_{vL} |
| 30 | 670 | 470 | 100 | 580 |
| 35 | 780 | 550 | 120 | 680 |
| 40 | 890 | 630 | 140 | 780 |
| 45 | 1000 | 710 | 150 | 870 |
| 50 | 1110 | 790 | 170 | 970 |
| 55 | 1220 | 860 | 190 | 1070 |
| 60 | 1330 | 940 | 200 | 1160 |
| 65 | 1440 | 1020 | 220 | 1260 |
| 70 | 1550 | 1100 | 240 | 1360 |

| 64' MEDIAN | | | | |
|--------------|------|-------|-------|----------|
| Design Speed | d | d_L | d_v | d_{vL} |
| 30 | 460 | 330 | 510 | 360 |
| 35 | 540 | 380 | 590 | 420 |
| 40 | 620 | 440 | 680 | 480 |
| 45 | 690 | 490 | 760 | 540 |
| 50 | 770 | 540 | 850 | 600 |
| 55 | 850 | 600 | 930 | 660 |
| 60 | 920 | 650 | 1020 | 720 |
| 65 | 1000 | 710 | 1100 | 780 |
| 70 | 1080 | 770 | 1180 | 840 |

| 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) AND RELATED DISTANCES (d_L , d_r , d_m & d_{vL}) (FEET)

4 LANE DIVIDED HIGHWAYS