

ADVANCED PLACEMENT OF WARNING SIGNS

Posted or 85th Percentile Speed	ADVANCED PLACEMENT DISTANCE								
	Condition A: Speed reduction and lane changing in heavy traffic	Condition B: Deceleration to the listed advisory speed (mph) for the condition							
		0 ³	10 ⁴	20 ⁴	30 ⁴	40 ⁴	50 ⁴	60 ⁴	70 ⁴
20 mph	225 ft	100 ft ⁶	N/A ⁵	—	—	—	—	—	—
25 mph	325 ft	100 ft ⁶	N/A ⁵	N/A ⁵	—	—	—	—	—
30 mph	460 ft	100 ft ⁶	N/A ⁵	N/A ⁵	—	—	—	—	—
35 mph	565 ft	100 ft ⁶	N/A ⁵	N/A ⁵	N/A ⁵	—	—	—	—
40 mph	670 ft	125 ft	100 ft ⁶	100 ft ⁶	N/A ⁵	—	—	—	—
45 mph	775 ft	175 ft	125 ft	100 ft ⁶	100 ft ⁶	N/A ⁵	—	—	—
50 mph	885 ft	250 ft	200 ft	175 ft	125 ft	100 ft ⁶	—	—	—
55 mph	990 ft	325 ft	275 ft	225 ft	200 ft	125 ft	N/A ⁵	—	—
60 mph	1100 ft	400 ft	350 ft	325 ft	275 ft	200 ft	100 ft ⁶	—	—
65 mph	1200 ft	475 ft	450 ft	400 ft	350 ft	275 ft	200 ft	100 ft ⁶	—
70 mph	1250 ft	550 ft	525 ft	500 ft	450 ft	375 ft	275 ft	150 ft	—
75 mph	1350 ft	650 ft	625 ft	600 ft	550 ft	475 ft	375 ft	250 ft	100 ft ⁶

1. THE DISTANCES ARE ADJUSTED FOR A SIGN LEGIBILITY DISTANCE OF 180 FEET FOR CONDITION A. THE DISTANCES FOR CONDITION B HAVE BEEN ADJUSTED FOR A SIGN LEGIBILITY DISTANCE OF 250 FEET, WHICH IS APPROPRIATE FOR AN ALIGNMENT WARNING SYMBOL SIGN. FOR CONDITIONS A AND B, WARNING SIGNS WITH LESS THAN 6-INCH LEGEND OR MORE THAN FOUR WORDS, A MINIMUM OF 100 FEET SHOULD BE ADDED TO THE ADVANCE PLACEMENT DISTANCE TO PROVIDE ADEQUATE LEGIBILITY OF THE WARNING SIGN.

2. TYPICAL CONDITIONS ARE LOCATIONS WHERE THE ROAD USER MUST USE EXTRA TIME TO ADJUST SPEED AND CHANGE LANES IN HEAVY TRAFFIC BECASUE OF A COMPLEX DRIVING SITUATION. TYPICAL SIGNS ARE MERGE AND RIGHT LANE ENDS. THE DISTANCES ARE DETERMINED BY PROVIDING THE DRIVER A PRT OF 14.0 TO 14.5 SECONDS FOR VEHICLE MANUEVERS (2005 AASHTO POLICY, EXHIBIT 3-3, DECISION SIGHT DISTANCE, AVOIDANCE MANEUVER E) MINUS THE LEGIBILITY DISTANCE OF 180 FEET FOR THE APPROPRIATE SIGN.

3. TYPICAL CONDITION IS THE WARNING OF A POTENTIAL STOP SITUATION. TYPICAL SIGNS ARE STOP AHEAD, YIELD AHEAD, SIGNAL AHEAD, AND INTERSECTION WARNING SIGNS. THE DISTANCES ARE BASED ON THE 2005 AASHTO POLICY, EXHIBIT 3-1, STOPPING SIGHT DISTANCE, PROVIDING A PRT OF 2.5 SECONDS A DECELERATION RATE OF 11.2 FEET/SECOND,² MINUS THE SIGN LIGIBILITY DISTANCE OF 180 FEET.

4. TYPICAL CONDITIONS ARE LOCATIONS WHERE THE ROAD USER MUST DECREASE SPEED TO MANEUVER THROUGH THE WARNED CONDITION. TYPICAL SIGNS ARE TURN, CURVE, REVERSE TURN, OR REVERSE CURVE. THE DISTANCE IS DETERMINED BY PROVIDING A 2.5 SECOND PRT, A VEHICLE DECELERATION RATE OF 10 FEET/SECOND, MINUS THE SIGN LEGIBILITY DISTANCE OF 250 FEET.

5. NO SUGGESTED DISTANCES ARE PROVIDED FOR THESE SPEEDS, AS THE PLACEMENT LOCATION IS DEPENDENT ON SITE CONDITIONS AND OTHER SIGNING. AN ALIGNMENT WARNING SIGN MAY BE PLACED ANYWHERE FROM THE POINT OF CURVATURE UP TO 100 FEET IN ADVANCE OF THE CURVE. HOWEVER, THE ALIGNMENT WARNING SIGN SHOULD BE INSTALLED IN ADVANCE OF THE CURVE AND AT LEAST 100 FEET FROM ANY OTHER SIGNS.

6. THE MINIMUM ADVANCE PLACEMENT DISTANCE IS LISTED AS 100 FEET TO PROVIDE ADEQUATE SPACING BETWEEN SIGNS.

1/5/2009 GPLN

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 5 ROAD DESIGN
GUIDELINE FOR ADVANCE PLACEMENT
OF WARNING SIGNS

DRAWING No.
04 -002