

NOTES

- 1. LATE/ZIPPER MERGE LOCATIONS SHALL BE DETERMINED PER THE DIRECTION OF THE REGION TRAFFIC ENGINEER.
- 2. ALL ZIPPER MERGE SIGNING SHALL HAVE A BLACK LEGEND ON A YELLOW BACKGROUND.
- 3. WHEN THE GEOMETRIC CONDITION EXISTS WHERE BOTH APPROACH LANES MERGE, A W4-8 SIGN SHALL BE USED INSTEAD OF THE THE W4-2.
- 4. SIGN 1 SHALL BE PLACED AT LEAST 500 FEET UPSTREAM OF THE SIGN 2 LOCATION AND NO GREATER THAN 1000 FEET UPSTREAM OF THE SIGN 2 LOCATION. AT LANE DROP LOCATIONS WHERE BACKUPS GREATER THAN 1000 FEET REGULARLY OCCUR, AN ADDITIONAL SIGN 1 MAY BE INSTALLED AT THE DISCRETION OF THE REGION TRAFFIC ENGINEER.
- 5. SIGN 1 SHALL BE PLACED A MINIMUM OF 500 FEET AND IN ADVANCE OF THE UPSTREAM LANE TAPER, AND THE SIGN LOCATION MAY BE ADJUSTED BASED ON GEOMETRIC CONDITIONS AND ENGINEERING JUDGMENT.
- 6. SIGN 2 SHALL BE PLACED USING GUIDELINES FOR THE ADVANCED PLACEMENT OF WARNING SIGNS FROM THE CURRENT MUTCD. TABLE 2C-3 FROM THE MUTCD 11TH EDITION IS PRESENTED BELOW FOR REFERENCE.
- 7. SIGN 3 SHALL BE PLACED AT THE BEGINNING OF THE LANE TAPER (MERGE POINT). SIGN 3 SHOULD BE DOUBLE POSTED WHERE ROADWAY CONDITIONS PERMIT.
- 8. WHITE BROKEN LANE LINE SHALL BE PLACED TO THE BEGINNING OF THE LANE TAPER (MERGE POINT). DO NOT INSTALL ANY LANE REDUCTION ARROW PAVEMENT MARKINGS.
- 9. A TAKE TURNS ROAD STENCIL MAY BE PLACED IN EACH OF THE MERGING LANES AT THE MERGE POINT, AT THE DISCRETION OF THE ENGINEER. SEE S-627-1 FOR STENCIL.

Table 2C-3. Guidelines for Advance Placement of Warning Signs

Posted or 85th- Percentile	Advance Placement Distance ¹												
	Condition A: Speed reduction and lane changing in heavy traffic ²	Condition B: Deceleration to the listed advisory speed (mph) for the condition											
Speed		03	10 ⁴	204	30 ⁴	40 ⁴	50 ⁴	60 ⁴	70 ⁴	80			
20 mph	225 ft	115 ft	N/A ⁵	-	-	-	_	-	-	-			
25 mph	325 ft	155 ft	N/A ⁵	N/A ⁵	-	-		-		-			
30 mph	460 ft	200 ft	N/A ⁵	N/A ⁵	_	-	_	-	_	-			
35 mph	565 ft	250 ft	N/A ⁵	N/A ⁵	N/A ⁵	-	-	T		-			
40 mph	670 ft	305 ft	100 ft ⁶	100 ft ⁶	N/A ⁵	-	-	-	-	-			
45 mph	775 ft	360 ft	125 ft	100 ft ⁶	100 ft ⁶	N/A ⁵	-	1	77				
50 mph	885 ft	425 ft	200 ft	175 ft	125 ft	100 ft ⁶	-	-	-	-			
55 mph	990 ft	495 ft	275 ft	225 ft	200 ft	125 ft	N/A5] 	-	9 			
60 mph	1,100 ft	570 ft	350 ft	325 ft	275 ft	200 ft	100 ft ⁶	-	_	-			
65 mph	1,200 ft	645 ft	450 ft	400 ft	350 ft	275 ft	200 ft	100 ft ⁶	-	-			
70 mph	1,250 ft	730 ft	525 ft	500 ft	450 ft	375 ft	275 ft	150 ft	_	-			
75 mph	1,350 ft	820 ft	625 ft	600 ft	550 ft	475 ft	375 ft	250 ft	100 ft ⁶	2			
80 mph	1,475 ft	910 ft	725 ft	700 ft	625 ft	550 ft	450 ft	350 ft	200 ft	-			
85 mph	1,600 ft	1,010 ft	825 ft	800 ft	750 ft	675 ft	575 ft	450 ft	300 ft	150 f			

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Traffic Safety & Engineering

LATE / ZIPPER MERGE SIGNAGE STANDARD PLAN NO. S-614-19

Standard Sheet No. 1 of 1

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