

## TABLE A

### MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT

#### Table A-1

Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length
<b>Upstream Tapers</b>	
Merging Taper	L MINIMUM
Shifting Taper	1/2 L Minimum
Shoulder Taper	1/3 L Minimum
Two-Way Traffic Taper	100 feet Maximum
<b>Downstream Tapers</b>	
(Use is optional)	100 feet Minimum

Formula for Taper Length 'L'

$L = \frac{WS^2}{60}$ (40 mph or less)	$L = WS$ (45 mph or greater)
L = Taper Length in feet W = Width of Offset in feet S = Speed in mph	

#### Table A-2

Suggested Advance Warning Sign Spacing

Road Type	Distance Between Signs in Feet
	S
Urban - 25 mph or less	200
Urban - 30 mph or more	350
Rural	500
Expressway/Freeway	1000

#### Table A-3

Taper Length and Buffer Space  
Use in Typical Applications Diagrams

Length of Taper 'L' in Feet			Longitudinal Buffer Space	
Speed in Miles per Hour*	Width of Offset**		Speed in Miles per Hour*	Length of Buffer Space in Feet
	11 Feet	12 Feet		
20	73	80	20	35
25	115	125	25	55
30	165	180	30	85
35	225	245	35	120
40	293	320	40	170
45	495	540	45	220
50	550	600	50	280
55	605	660	55	335
60	660	720	60	415
65	715	780	65	485
70	770	840	70	585

\* Posted speed, off-peak 85th percentile speed prior to starting, or the anticipated operation speed.

\*\* For other offset widths, apply the formula in table A-1.