

Design Speed (mph)	Merging- Taper Rate
20	10:1
25	10:1
30	15:1
35	20:1
40	30:1
45	45:1
50	50:1
55	55:1
60	60:1
65	65:1
70	70:1

Taper Type		Minimum Taper Length
Upstream	Merging Taper (Lane Drop)	L
	Lane-Shift Taper	$\frac{1}{2} L$
	Shoulder Taper	$\frac{1}{3} L$
	Two-Way-Traffic Taper	100 ft
Downstream		50 ft / lane ²

Notes:

1. Taper Length, L = Merging-Taper Rate $\times$ Offset Distance
2. The desirable length is 100 ft / lane.
3. Figure 76-2C illustrates the various types of tapers.

LONGITUDINAL TAPER RATE AND LENGTH

Figure 76-2B