

Design Speed (mph)	Design Year AADT, T	Foreslopes		Backslopes		
		6:1 or Flatter	5:1 or 4:1	3:1	4:1 or 5:1	6:1 or Flatter
≤ 40	< 750	7-10	7-10	7-10	7-10	7-10
	$750 \leq T < 1500$	10-12	12-14	10-12	10-12	10-12
	$1500 \leq T \leq 6000$	12-14	14-16	12-14	12-14	12-14
	> 6000	14-16	16-18	14-16	14-16	14-16
45 or 50	< 750	10-12	12-14	8-10	8-10	10-12
	$750 \leq T < 1500$	12-14	16-20	10-12	10-14	14-16
	$1500 \leq T \leq 6000$	16-18	20-26	12-14	14-16	16-18
	> 6000	18-20	24-28	14-16	18-20	20-22
55	< 750	12-14	14-18	8-10	10-12	10-12
	$750 \leq T < 1500$	16-18	20-24	10-12	14-16	16-18
	$1500 \leq T \leq 6000$	20-22	24-30	14-18	16-18	20-22
	> 6000	22-24	26-32*	16-18	20-22	22-24
60	< 750	16-18	20-24	10-12	12-14	14-16
	$750 \leq T < 1500$	20-24	26-32*	12-14	16-18	20-22
	$1500 \leq T \leq 6000$	26-30	32-40*	14-18	18-22	24-26
	> 6000	30-32*	36-44*	20-22	24-26	26-28
65 or 70	< 750	18-20	20-26	10-12	14-16	14-16
	$750 \leq T < 1500$	24-26	28-36*	12-16	18-20	20-22
	$1500 \leq T \leq 6000$	28-32*	34-42*	16-20	22-24	26-28
	> 6000	30-34*	38-46*	22-24	26-30	28-30

Notes:

* Where a site-specific investigation indicates a high probability of continuing crashes, or such occurrences are indicated by crash history, a clear-zone distance greater than that shown in the table may be provided. The clear-zone width may be limited to 30 ft for practicality and to provide a consistent roadway template if previous experience with similar projects or designs has indicated satisfactory performance.

1. For a foreslope of 3:1, recovery is less likely if it is unshielded. Fixed objects should not be present. Recovery of a high-speed vehicle that encroaches beyond the edge of the shoulder may be expected to occur beyond the toe of slope. Determination of the width of the recovery area at the toe of slope should take into consideration right of way availability, environmental concerns, economic factors, safety needs, and crash histories. Also, the distance between the edge of the through travel lane and the beginning of the 3:1 slope should influence the recovery area provided at the toe of slope.

**CLEAR-ZONE WIDTH (ft)
FOR NEW CONSTRUCTION OR RECONSTRUCTION**

Figure 49-2A