Metric   Acceleration length, $L$ (m) for entrance curve design speed (km/h)										
Highway		condition	20	30	40	50	60	70	80	
Speed and initial speed,										
Design	reached,	$V_c'$ (km/h)								
speed, V V <sub>a</sub>										
(km/h)	(km/h)	0	20	28	35	42	51	63	70	
50	37	60	50	30	_		_			
60	45	95	80	65	45			_	_	
70	53	150	130	110	90	65	_			
80	60	200	180	165	145	115	65			
90	67	260	245	225	205	175	125	35		
100	74	345	325	305	285	255	205	110	40	
110	81	430	410	390	370	340	290	200	125	
120	88	545	530	515	490	460	410	325	245	

Note: Uniform 50:1 to 70:1 tapers are recommended where lengths of acceleration lanes exceed 400 m.

US Customary											
Acceleration length, $L$ (ft) for entrance curve design speed (mph)											
Highway		Stop condition	15	20	25	30	35	40	45	50	
Design	Speed reached,	oondition	and initial speed, $V'_a$ (mph)								
speed, $V$	$V_a$										
(mph)	(mph)	0	14	18	22	26	30	36	40	44	
30	23	180	140	_	_			_			
35	27	280	220	160	_	_	_		—		
40	31	360	300	270	210	120		_			
45	35	560	490	440	380	280	160	_			
50	39	720	660	610	550	450	350	130	_		
55	43	960	900	810	780	670	550	320	150		
60	47	1200	1140	1100	1020	910	800	550	420	180	
65	50	1410	1350	1310	1220	1120	1000	770	600	370	
70	53	1620	1560	1520	1420	1350	1230	1000	820	580	
75	55	1790	1730	1630	1580	1510	1420	1160	1040	780	

Note: Uniform 50:1 to 70:1 tapers are recommended where lengths of acceleration lanes exceed 1,300 ft.

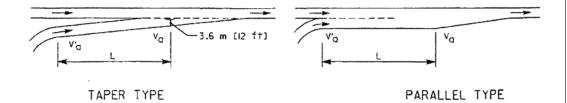


Exhibit 10-70. Minimum Acceleration Lengths for Entrance Terminals with Flat Grades of Two Percent or Less